Project Report Appendices

The following section contains the appendices as listed in the Tishomingo, Mississippi 2016 QL2 LiDAR Project Report.

Appendix A

GPS/IMU Processing Statistics
Flight Logs
Base Station Logs

There were 26 total lifts - 17 for the North AOI and 9 for the South AOI. Graph reports generated from processing software and flight logs are found on the following pages.

North AOI

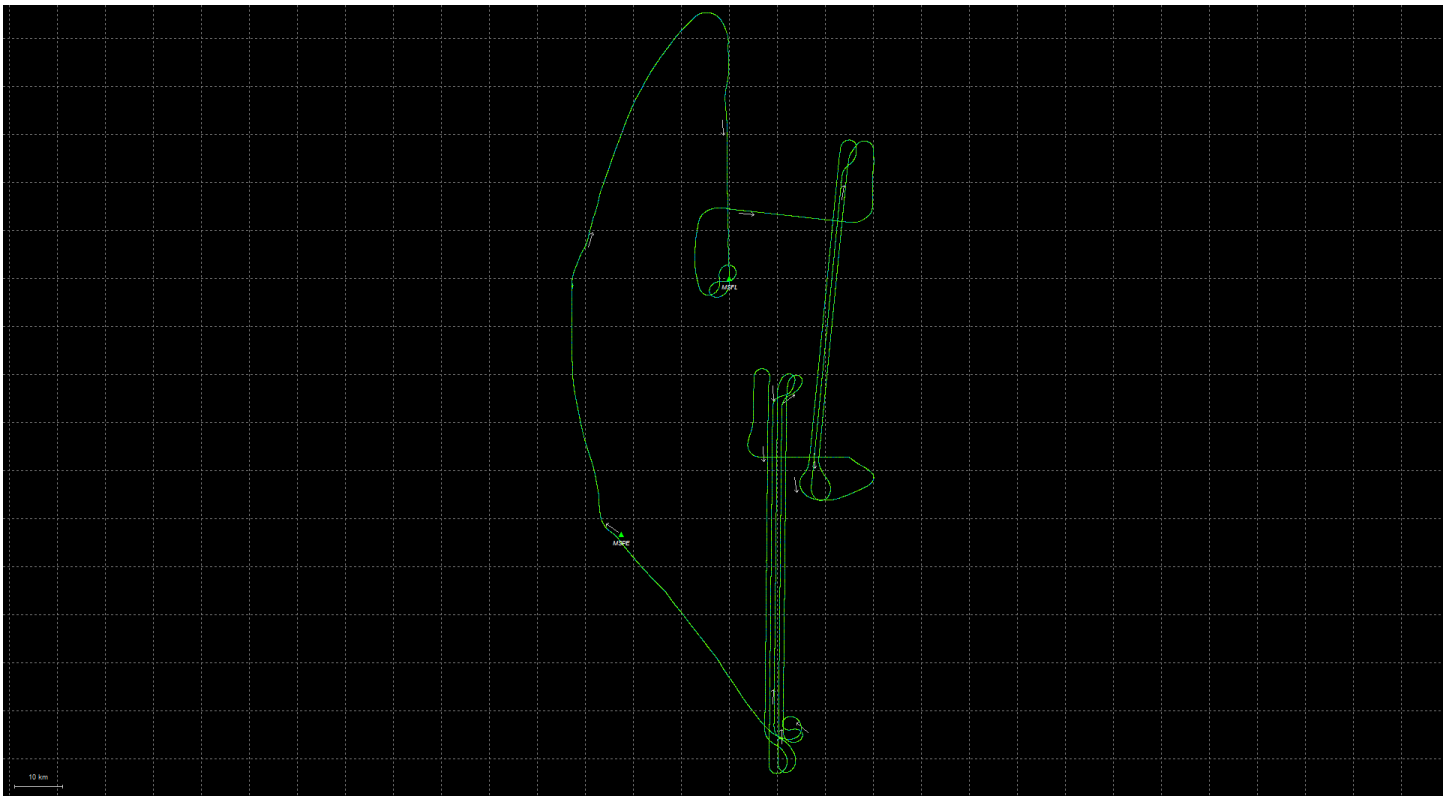
Jan 17, 2016-A (N22GE, SN7178)..... 2
Flight Log 10
Base Station Log.....11
Jan 17, 2016-B (N22GE, SN7178).....12
Flight Log 20
Jan 18, 2016-A (N22GE, SN7178).....21
Flight Log 29
Base Station Log.....30
Jan 18, 2016-B (N22GE, SN7178).....31
Flight Log 38
Jan 24, 2016-A (N22GE, SN7178).....39
Flight Log 46
Base Station Log.....47
Jan 24, 2016-B (N22GE, SN7178).....48
Flight Log 55
Jan 28, 2016-A (N22GE, SN7178).....56
Flight Log 63
Base Station Log.....64
Jan 30, 2016-A (N22GE, SN7178) 65
Flight Log 73
Base Station Log.....74
Feb 4, 2016-B (N22GE, SN7178) 75
Flight Log 83
Feb 5, 2016-A (N22GE, SN7178) 84
Flight Log 92
Feb 5, 2016-B (N22GE, SN7178).....93
Flight Log 101
Feb 6, 2016-A (N22GE, SN7178) 102
Flight Log 110
Feb 6, 2016-B (N22GE, SN7178)..... 111
Flight Log 119
Feb 7, 2016-A (N22GE, SN7178) 120
Flight Log 127
Feb 7, 2016-B (N22GE, SN7178).....129
Flight Log 137
Feb 11, 2016-A (N22GE, SN7178).....138
Flight Log 145
Feb 11, 2016-B (N22GE, SN7178) 147
Flight Log 154

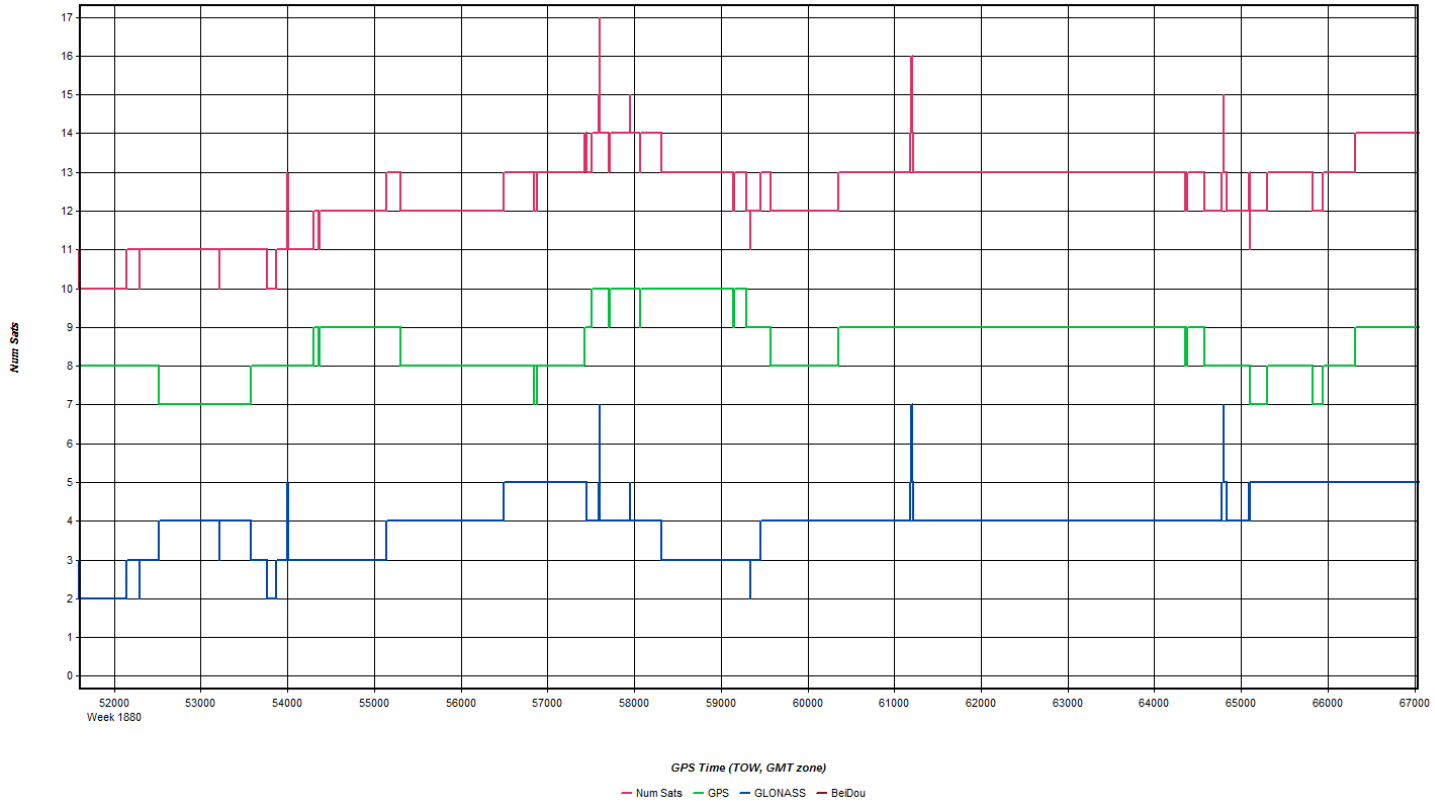
South AOI

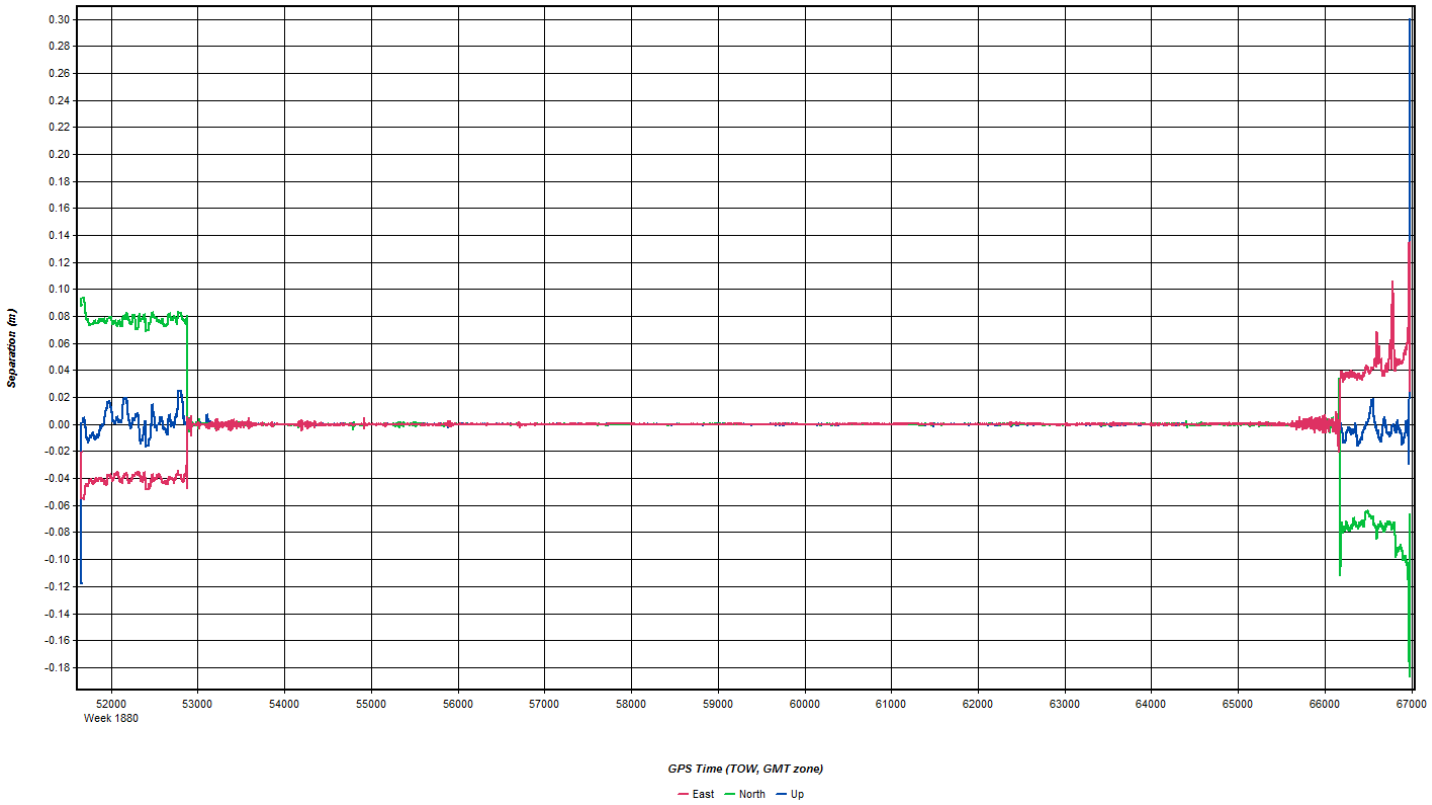
Jan 19, 2016-A (N22GE, SN7178) 155
Flight Log 162
Jan 27, 2016-A (N208NR, SN8227) 163
Flight Log 170
Jan 28, 2016-A (N208NR, SN8227)..... 171
Flight Log 178
Jan 28, 2016-B (N208NR, SN8227) 180
Flight Log 187
Jan 29, 2016-A (N208NR, SN8227)..... 189
Flight Log 196
Feb 3, 2016-A (N208NR, SN8227).....197
Flight Log 205
Feb 4, 2016-A (N208NR, SN8227) 207
Flight Log 214
Feb 4, 2016-B (N208NR, SN8227).....215
Flight Log 223
Feb 4, 2016-C (N208NR, SN8227).....225
Flight Log 232

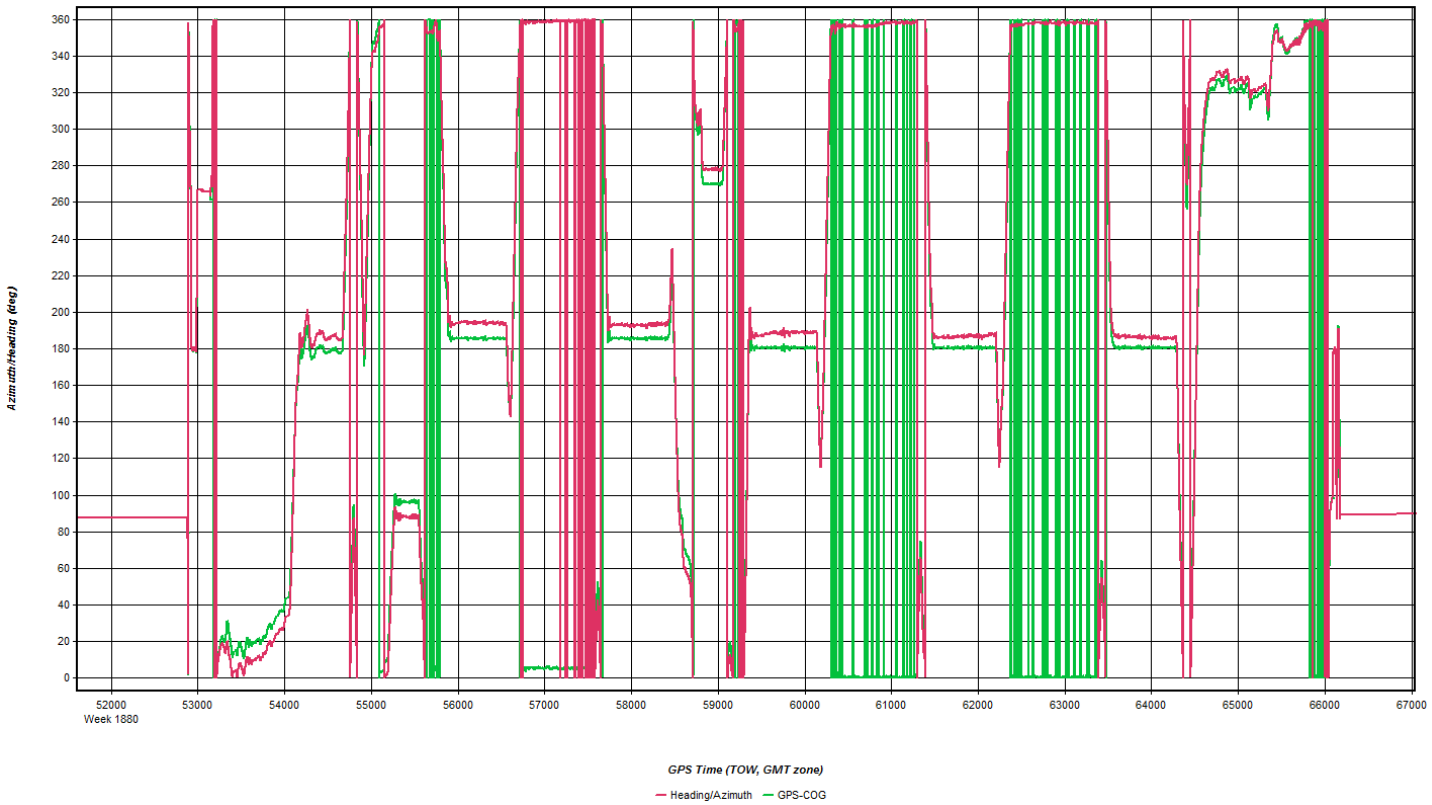
North AOI - UTM Zone 16

Jan 17, 2016-A (N22GE, SN7178)

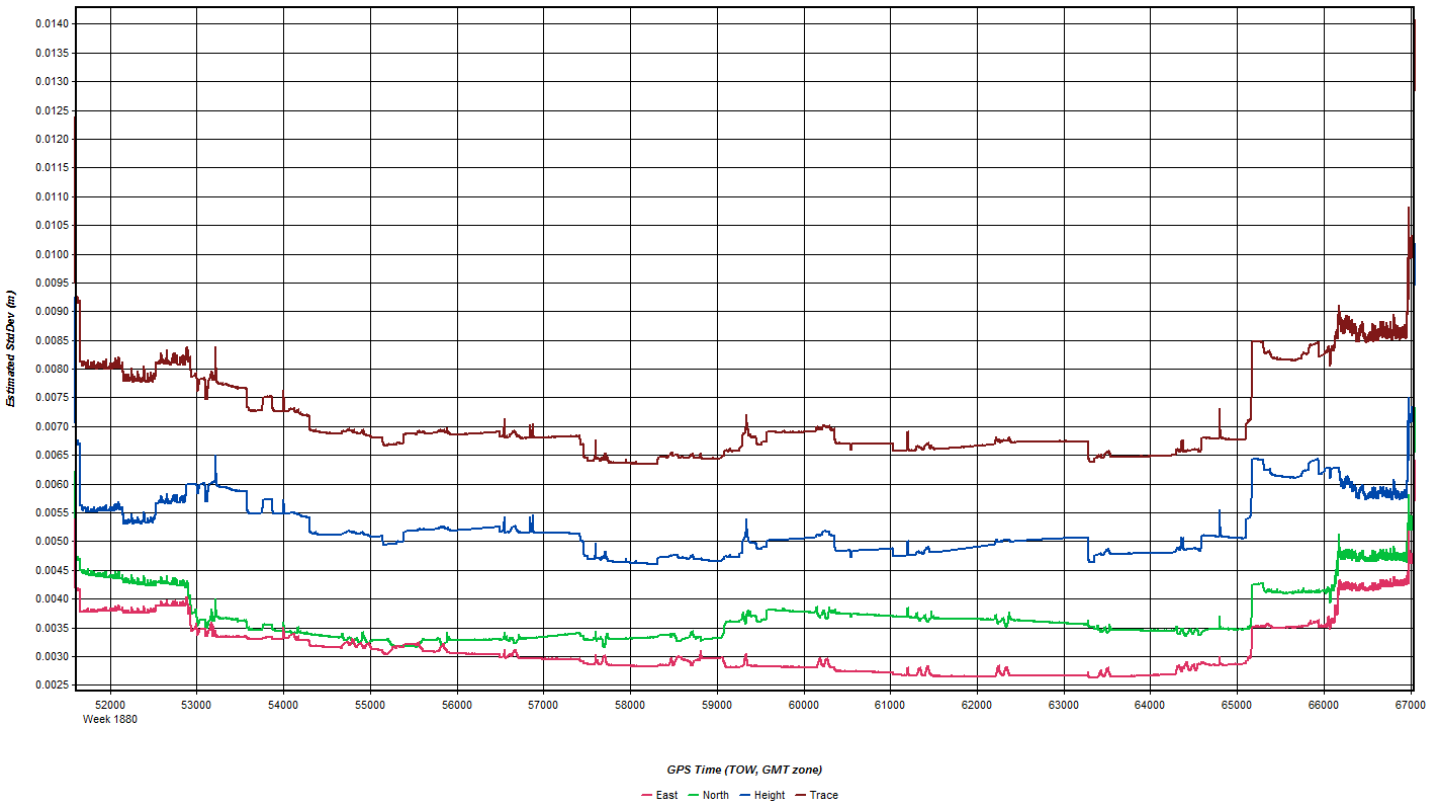

MSFL
MSBP
10 km

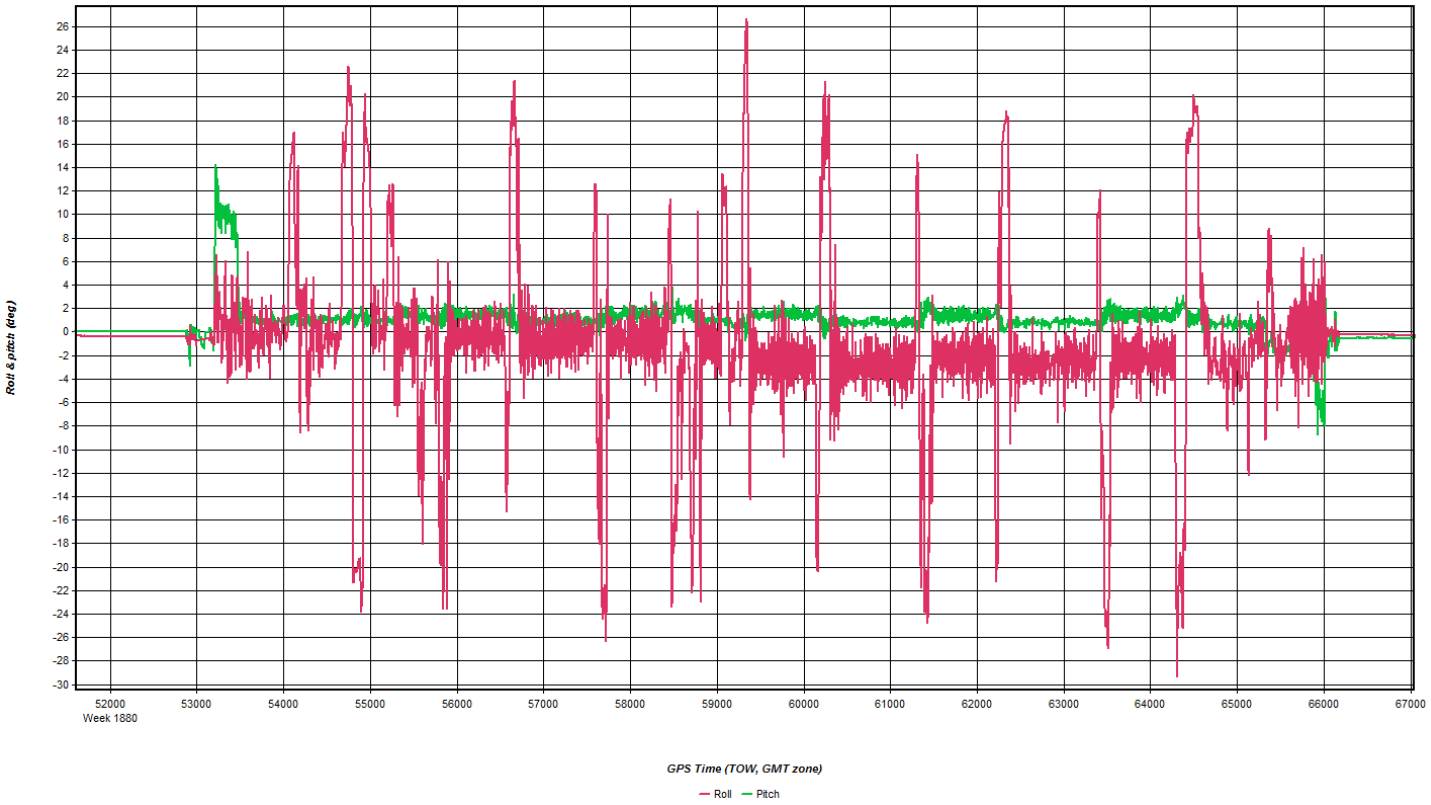

Num Sats
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
52000
Week 1880
53000
54000
55000
56000
57000
58000
59000
60000
61000
62000
63000
64000
65000
66000
67000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

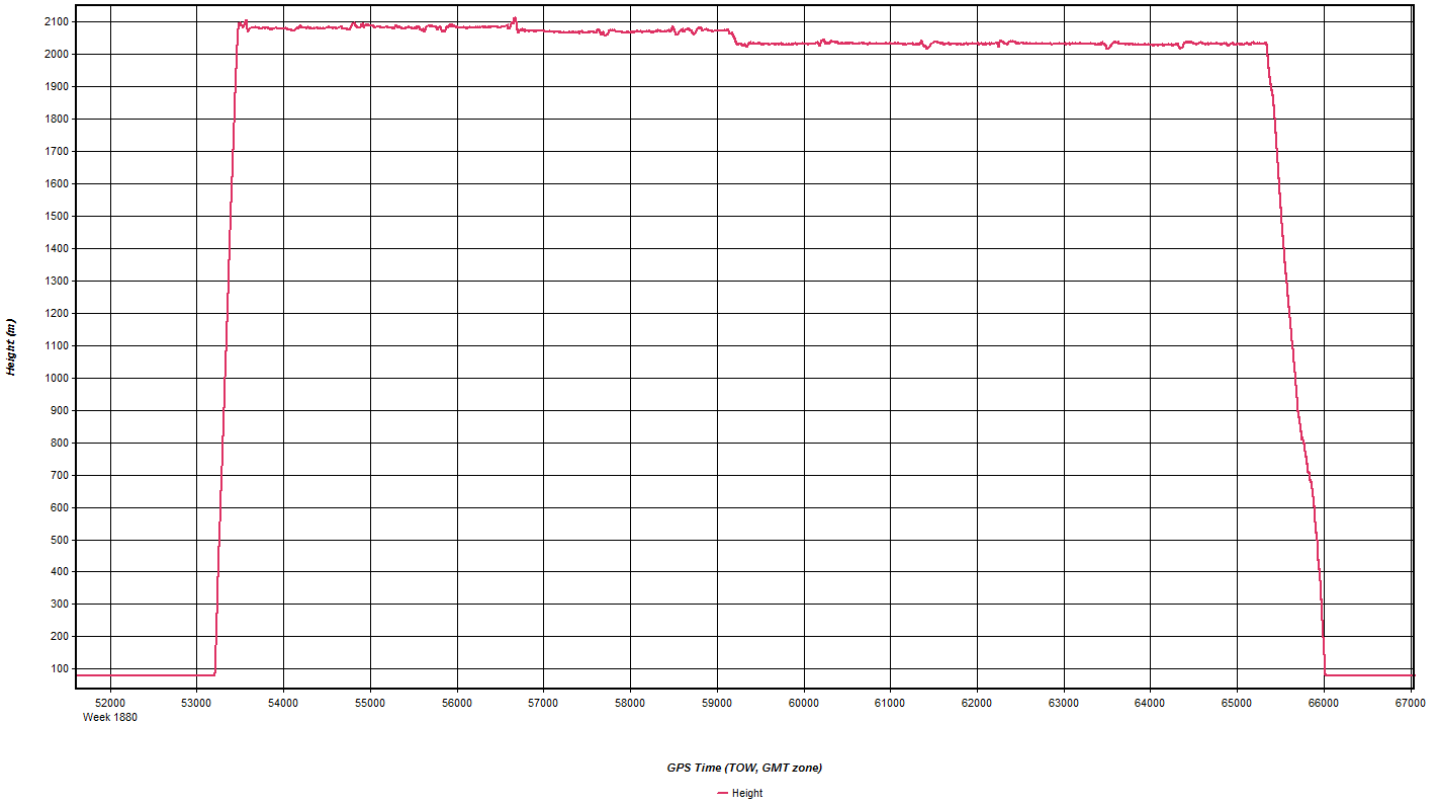

Separation (m)
0.30
0.28
0.26
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
-0.10
-0.12
-0.14
-0.16
-0.18
52000
Week 1880
53000
54000
55000
56000
57000
58000
59000
60000
61000
62000
63000
64000
65000
66000
67000
GPS Time (TOW, GMT zone)
East
North
Up


Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
52000
Week 1880
53000
54000
55000
56000
57000
58000
59000
60000
61000
62000
63000
64000
65000
66000
67000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

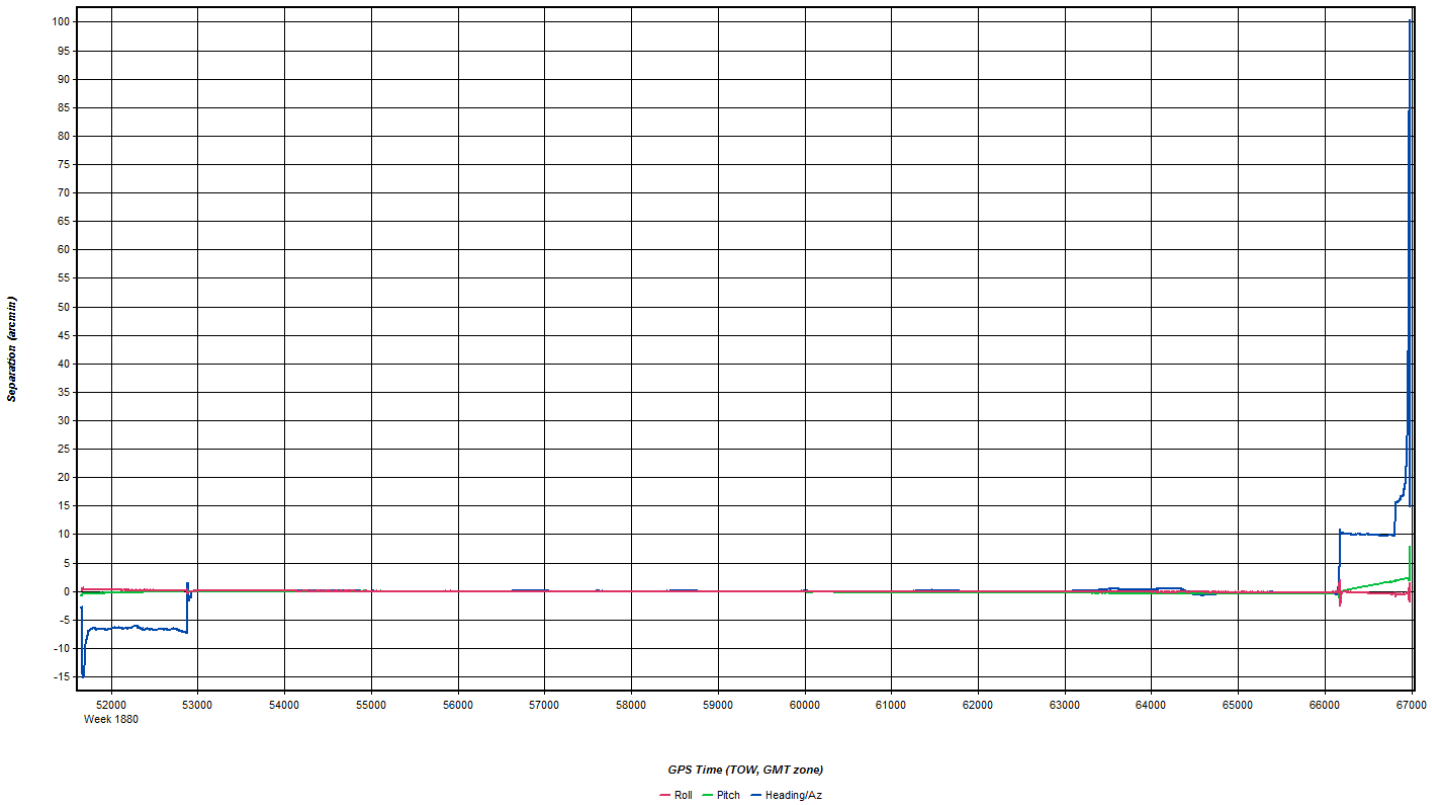

PDOP
1.60
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.55
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
52000
Week 1880
53000
54000
55000
56000
57000
58000
59000
60000
61000
62000
63000
64000
65000
66000
67000
GPS Time (TOW, GMT zone)
PDOP

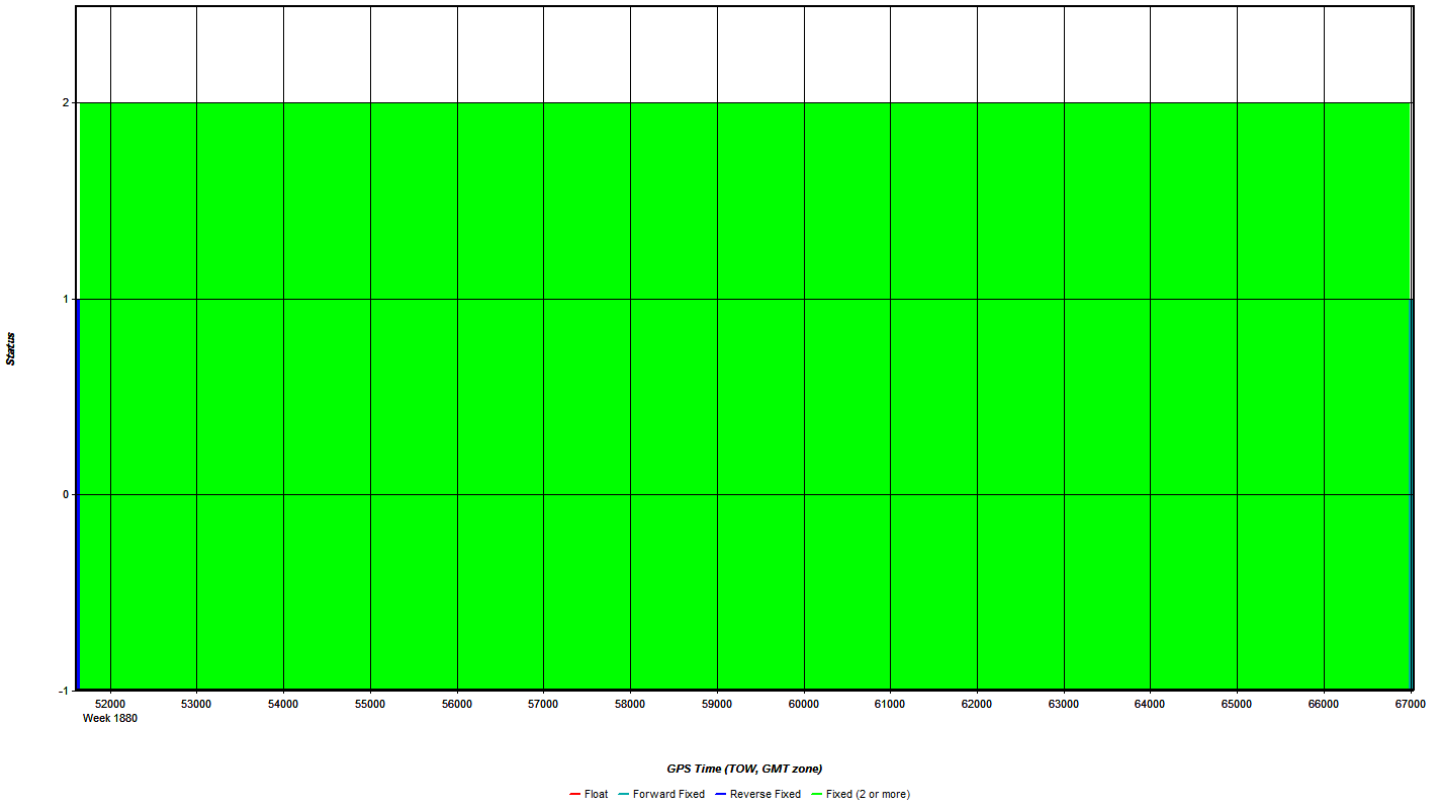

Estimated StdDev (m)
0.0140
0.0135
0.0130
0.0125
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
0.0025
52000
Week 1880
53000
54000
55000
56000
57000
58000
59000
60000
61000
62000
63000
64000
65000
66000
67000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

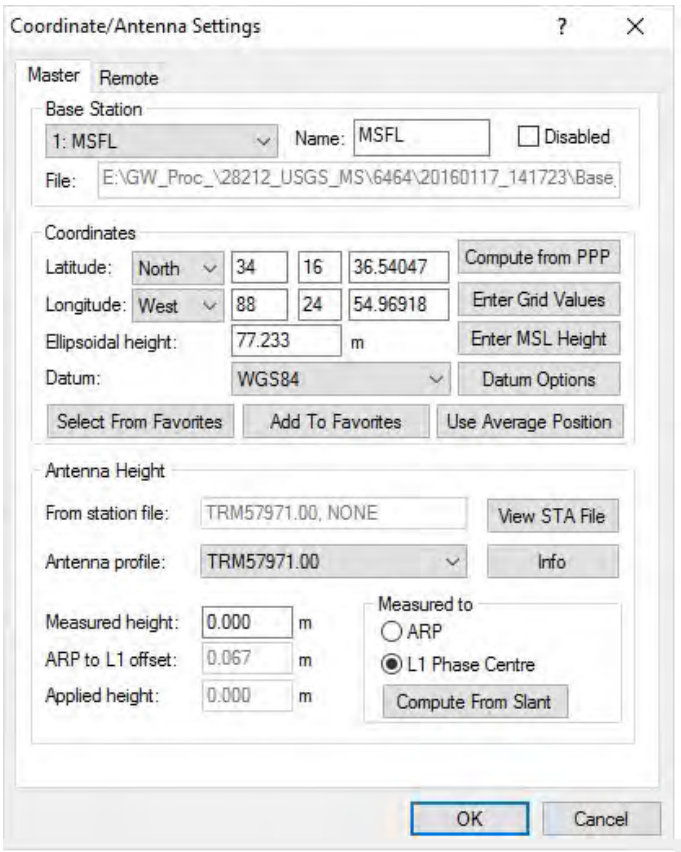

Roll & pitch (deg)
26
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
-28
-30
52000
Week 1880
53000
54000
55000
56000
57000
58000
59000
60000
61000
62000
63000
64000
65000
66000
67000
GPS Time (TOW, GMT zone)
Roll
Pitch

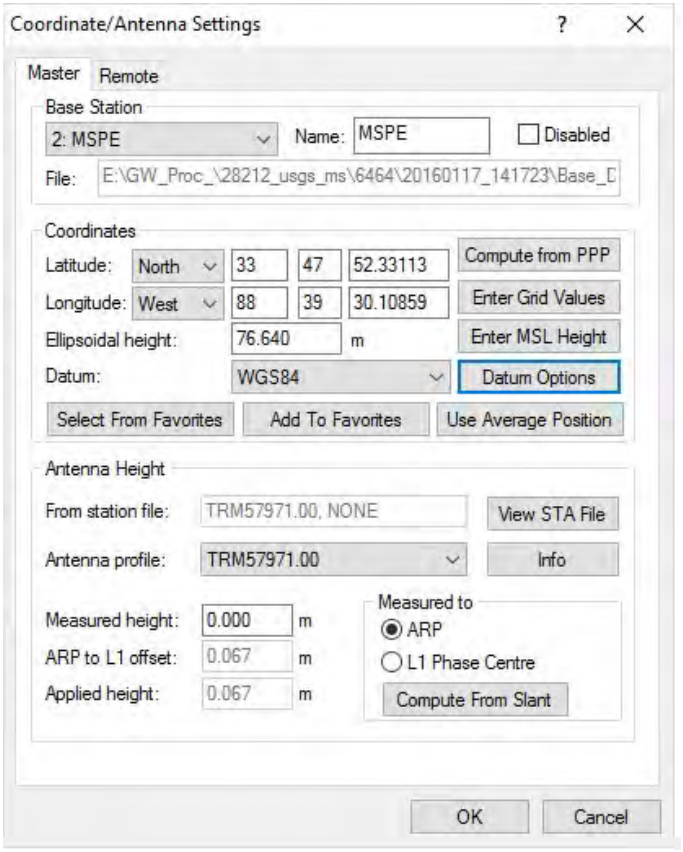

Height (m)
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
52000
Week 1880
53000
54000
55000
56000
57000
58000
59000
60000
61000
62000
63000
64000
65000
66000
67000
GPS Time (TOW, GMT zone)
Height


RMS (m)
0.046
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
52000
Week 1880
53000
54000
55000
56000
57000
58000
59000
60000
61000
62000
63000
64000
65000
66000
67000
GPS Time (TOW, GMT zone)
RMS
SD

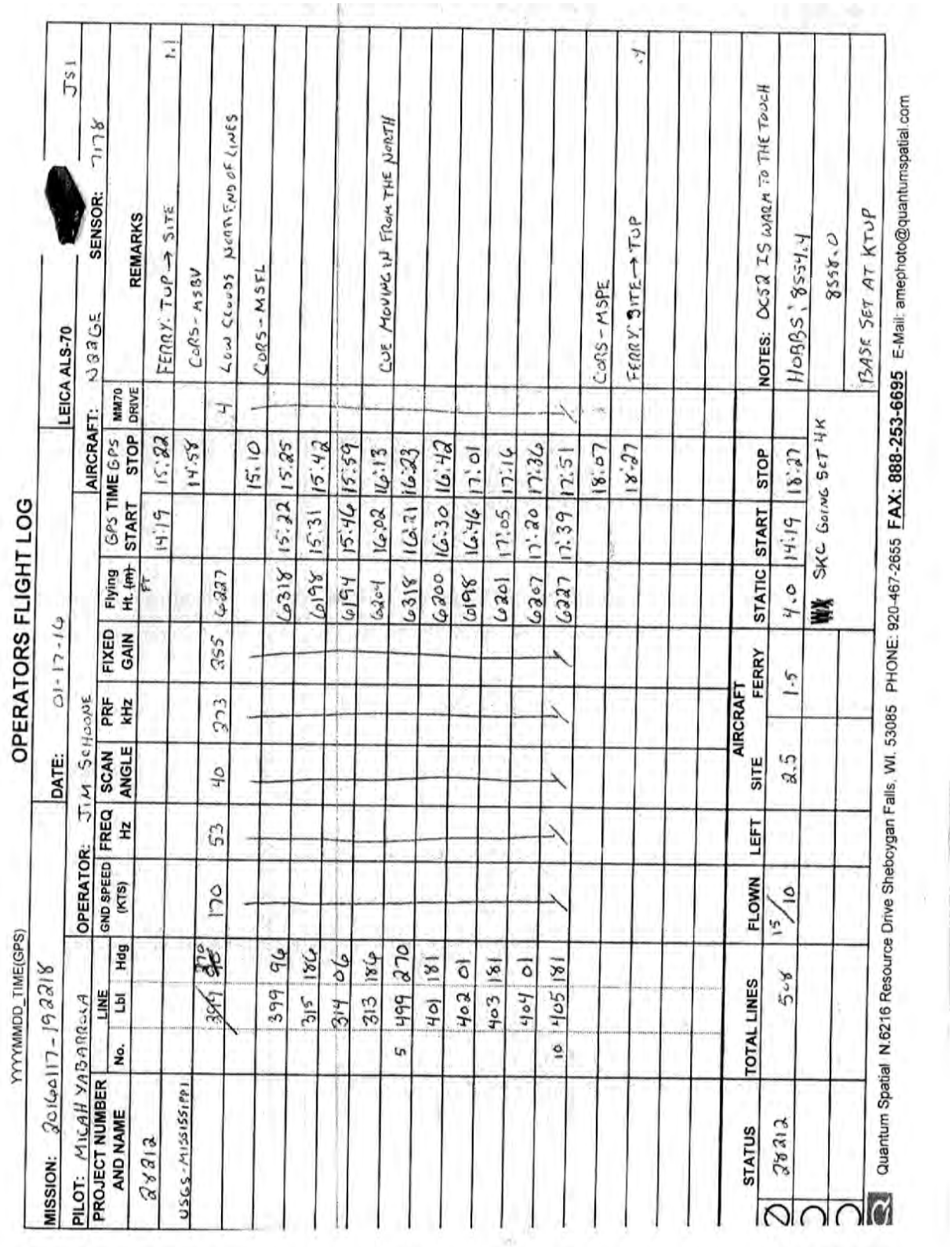

Separation (arcmin)
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
-5
-10
-15
52000
Week 1880
53000
54000
55000
56000
57000
58000
59000
60000
61000
62000
63000
64000
65000
66000
67000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
52000
Week 1880
53000
54000
55000
56000
57000
58000
59000
60000
61000
62000
63000
64000
65000
66000
67000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSFL
Name:
MSFL
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\6464\20160117_141723\Base
Coordinates
Latitude:
North
34
16
36.54047
Compute from PPP
Longitude:
West
88
24
54.96918
Enter Grid Values
Ellipsoidal height:
77.233
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM57971.00, NONE
View STA File
Antenna profile:
TRM57971.00
Info
Measured height:
0.000
m
ARP to L1 offset:
0.067
m
Applied height:
0.000
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel


Coordinate/Antenna Settings
Master
Remote
Base Station
2: MSPE
Name:
MSPE
Disabled
File:
E:\GW_Proc_\28212_usgs_ms\6464\20160117_141723\Base_D
Coordinates
Latitude:
North
33
47
52.33113
Compute from PPP
Longitude:
West
88
39
30.10859
Enter Grid Values
Ellipsoidal height:
76.640
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM57971.00, NONE
View STA File
Antenna profile:
TRM57971.00
Info
Measured height:
0.000
m
ARP to L1 offset:
0.067
m
Applied height:
0.067
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log



OPERATORS FLIGHT LOG

YYYYMMDD_TIME(GPS)

MISSION: 20160117-19221B | DATE: 01-17-16 | LEICA ALS-70 | JS1

PILOT: MICAH YABARRA | OPERATOR: JIM SCHOOPE | AIRCRAFT: N333GE | SENSOR: 7178

PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m) FT	GPS TIME START	GPS TIME STOP	MM70 DRIVE	REMARKS
28212										14:19	15:22		FERRY: TUP → SITE
USGS-MISSISSIPPI											14:58		CORS - MSBV
		396	276	170	53	40	303	355	6227			4	LOW CLOUDS NORTH END OF LINES
											15:10		CORS - MSFL
		399	96						6318	15:22	15:25		
		315	186						6198	15:31	15:42		
		314	06						6194	15:46	15:59		
		313	186						6204	16:02	16:13		CUE MOVING FROM THE NORTH
	5	499	270						6318	16:21	16:23		
		401	181						6200	16:30	16:42		
		402	01						6198	16:46	17:01		
		403	181						6201	17:05	17:16		
		404	01						6207	17:20	17:36		
	10	405	181	✓	✓	✓	✓	✓	6227	17:39	17:51	✓	
											18:07		CORS - MSPE
											18:27		FERRY: SITE → TUP

STATUS	TOTAL LINES	FLOWN	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	NOTES
28212	508	15/10	2.5	1.5	4.0	14:19	18:27	OCA IS WARM TO THE TOUCH
								HOBBS: 8554.4
					WX SKC GOING SET HK			8558.0
								BASE SET AT KTUP

Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@quantumspatial.com

Base Station Log

GPS OBSERVATION LOG

CAROL CONE AZ
MK 2
PID EG1946

Station ID	
Project Number	28212
Project Name	USGS MS.
Rcvr. Type	Novatel DL-V3-L1L2
Rcvr. S/N	7-0141418
Antenna Type	Novatel
Antenna S/N	NAE12110035
Mission	20160117_141723 20160117-192218

Date	01 / 17 / 2016
Julian Date	017
Start Time	13 : 57 : :GPS
Stop Time	: : :
Rcvr. File Name	
Observer	J. SCHOONE

New or Existing Mon. ☐ New ☒ Existing

Photo Taken: ☒ Yes ☐ No

STANDARD DISK
SET IN TOP OF A ROUND
CONCRETE POST, FLUSH
WITH THE Ground

Monument Type: _____

Spike ☐ PK Nail ☐ AM Washer ☐

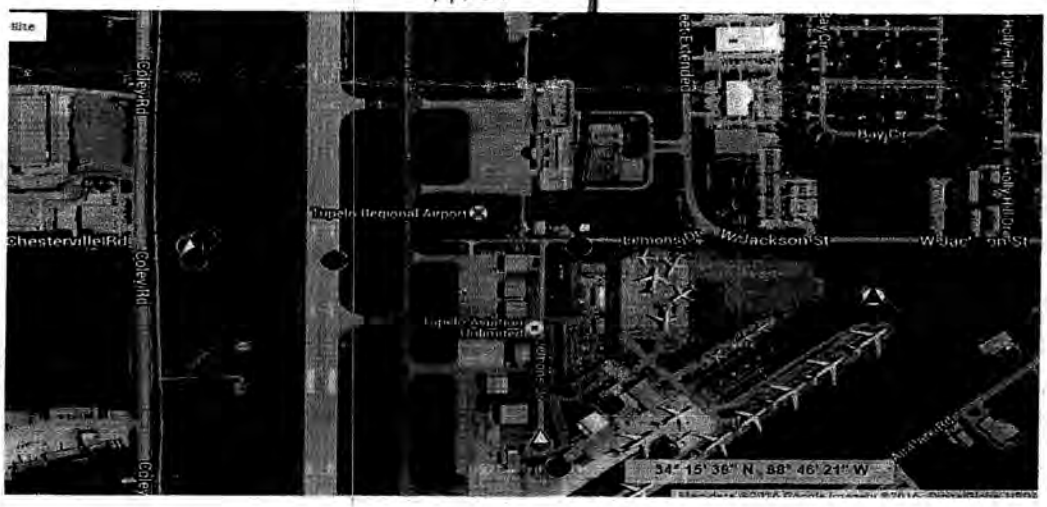
Other _____

Height Readings:
(Top of Monument to Bottom of Ground Plane)

Start	2.0	M.		Ft.
Stop	2.0	M.		Ft.
Mean	2.0	M.		Ft.

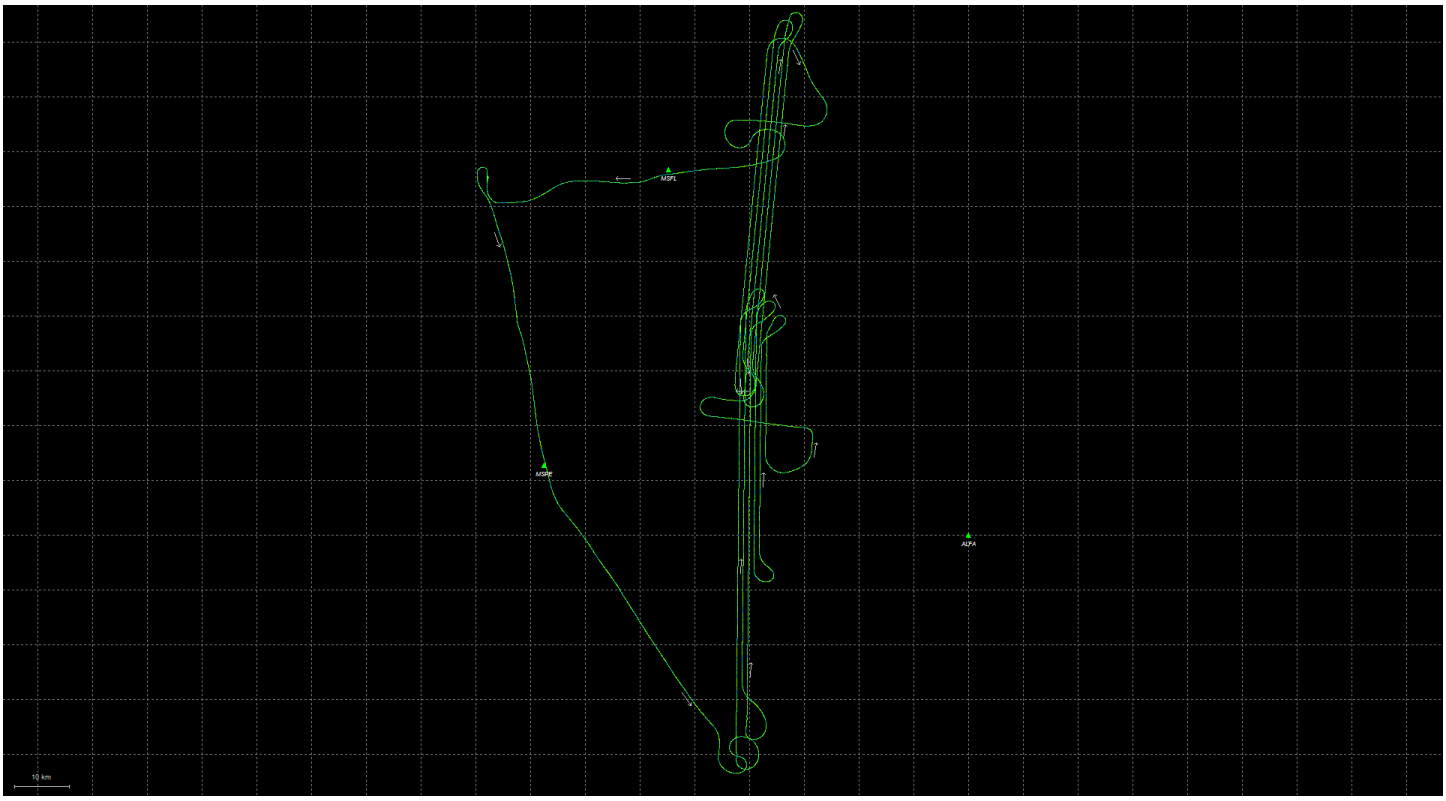
MONUMENT IS ON THE CORNER
IN FRONT OF THE NATIONAL GUARD

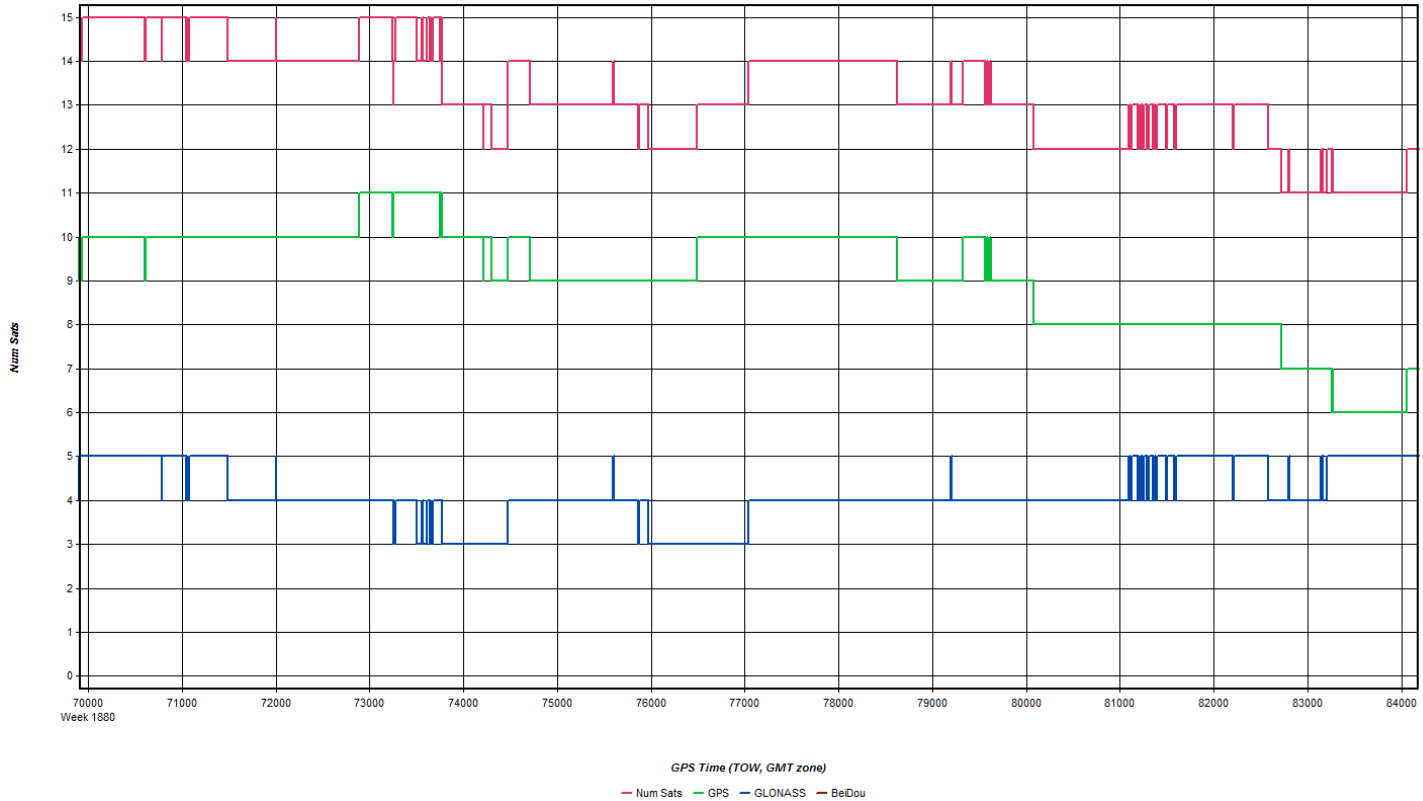
KTUP

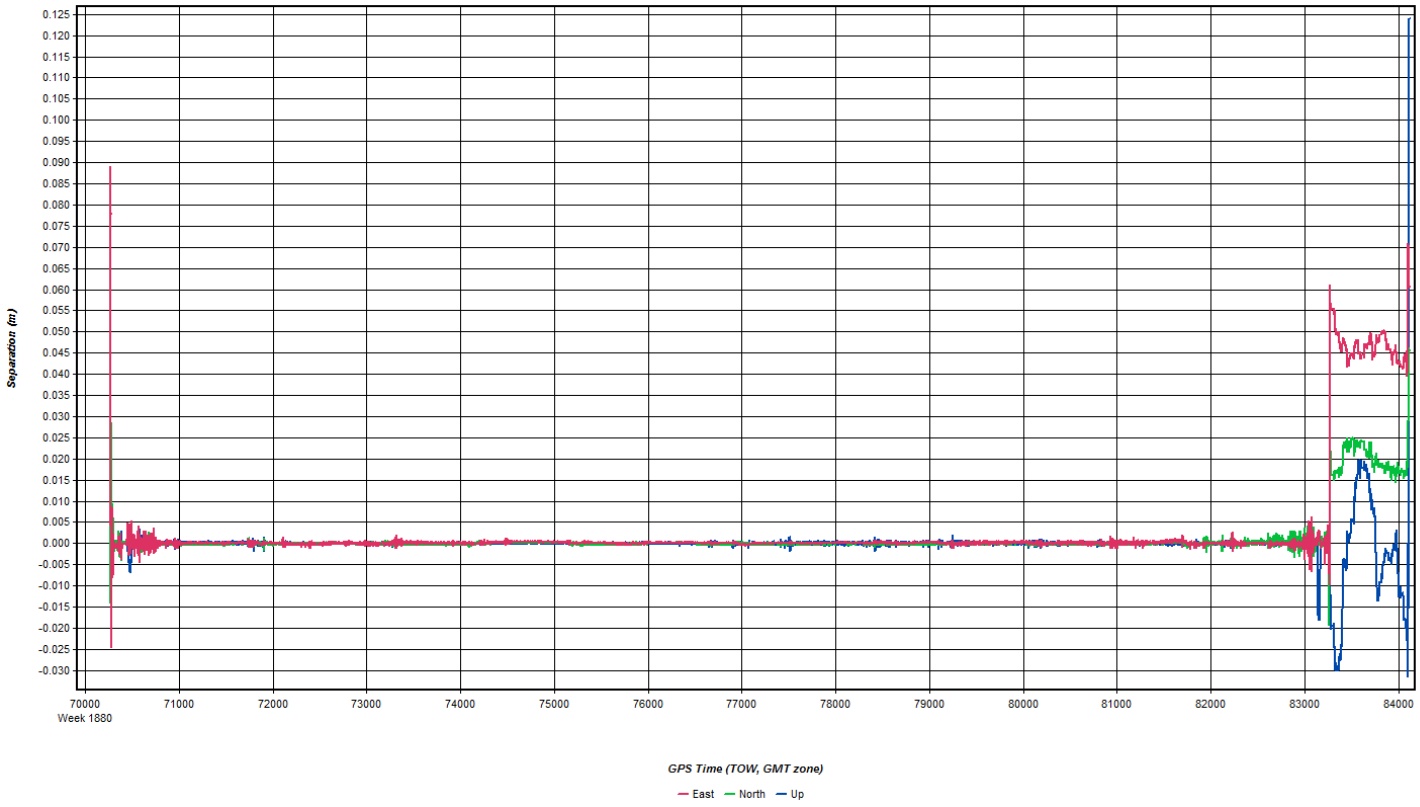


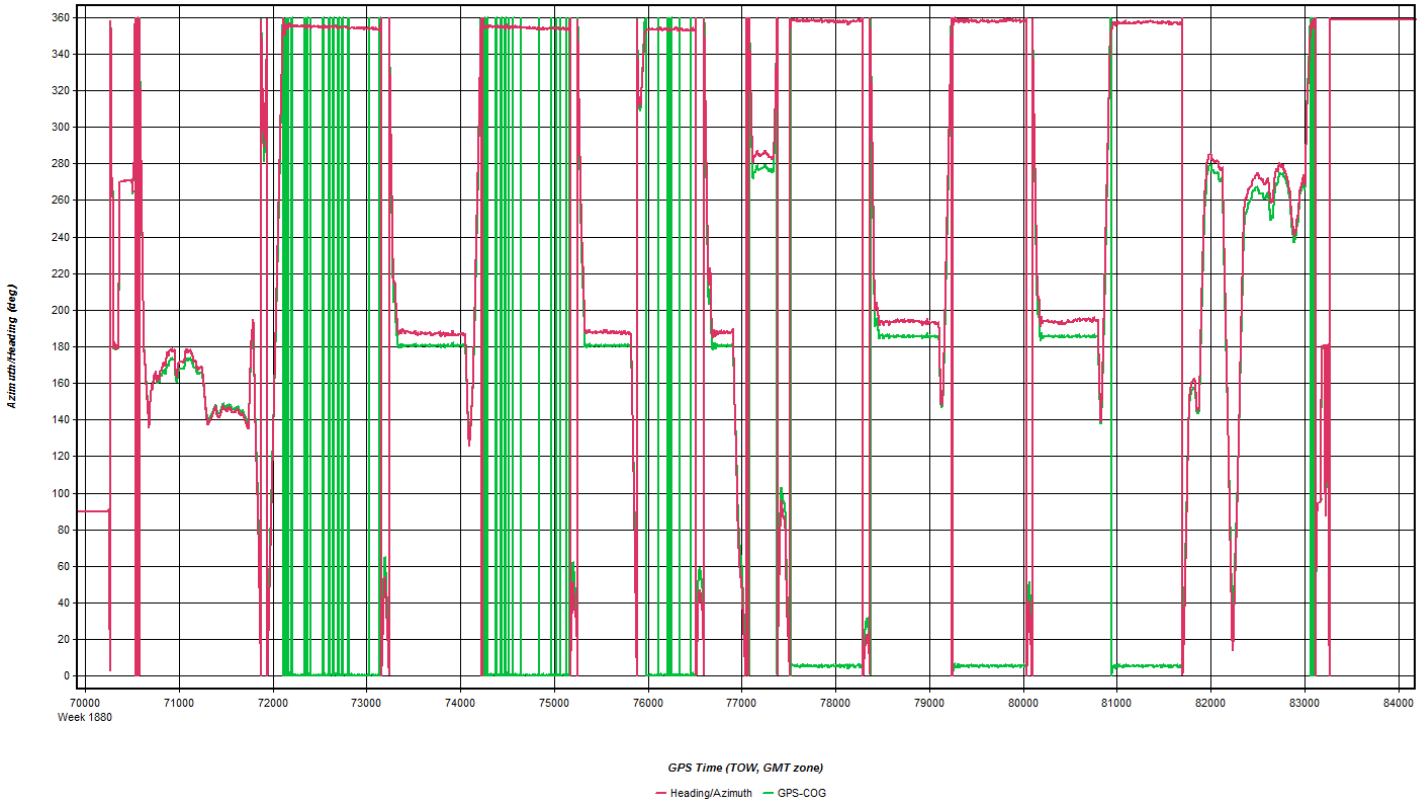
North AOI - UTM Zone 16

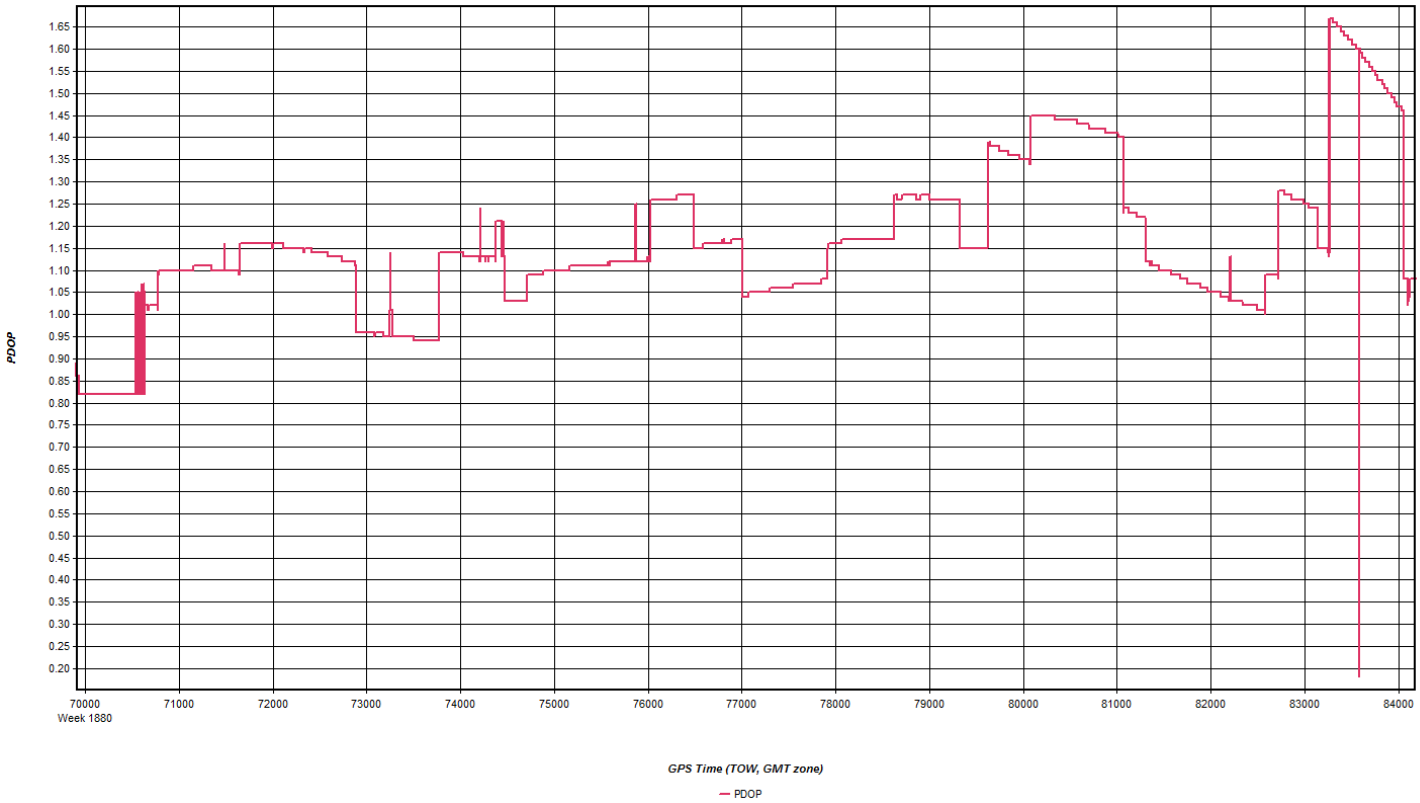
Jan 17, 2016-B (N22GE, SN7178)

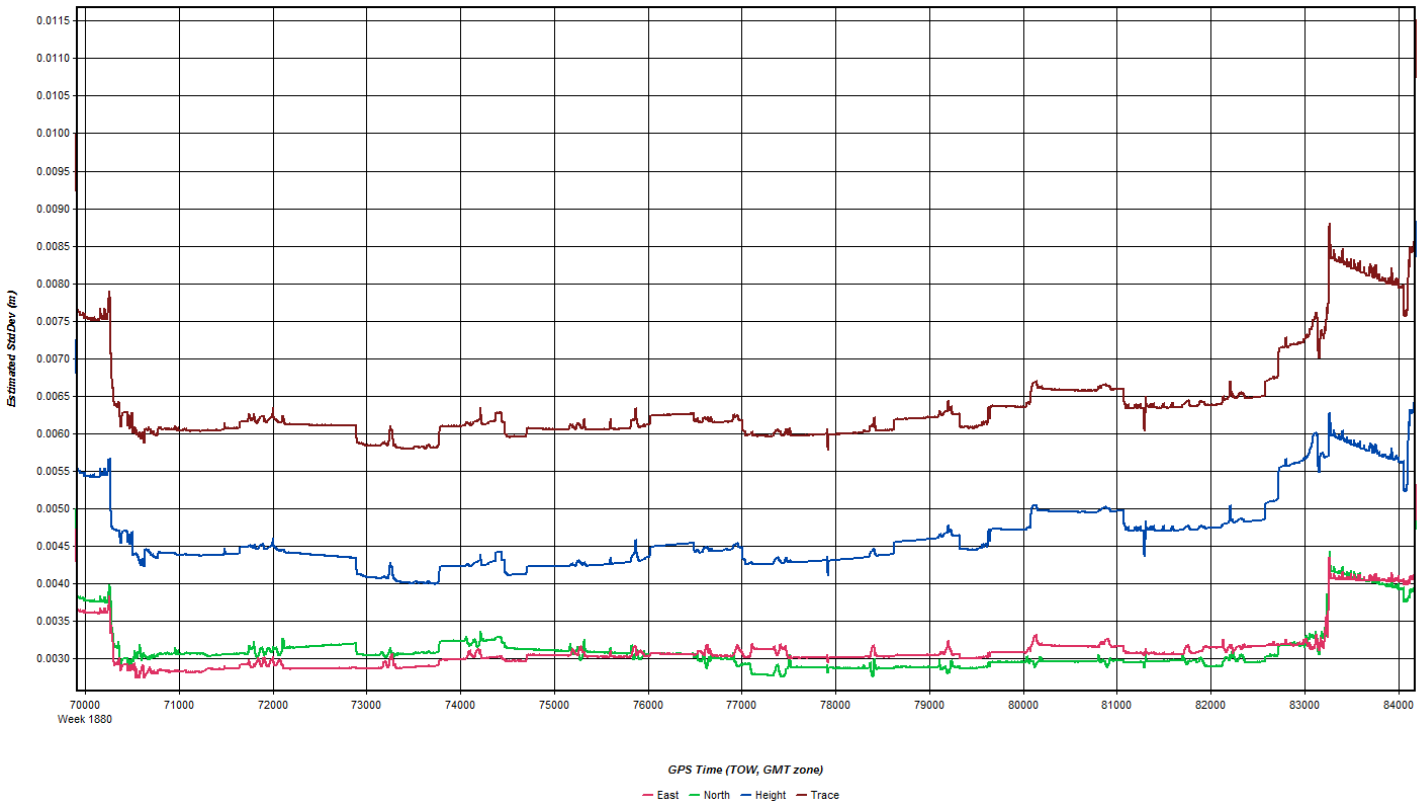

MSFL
MSRF
ALPA
10 km

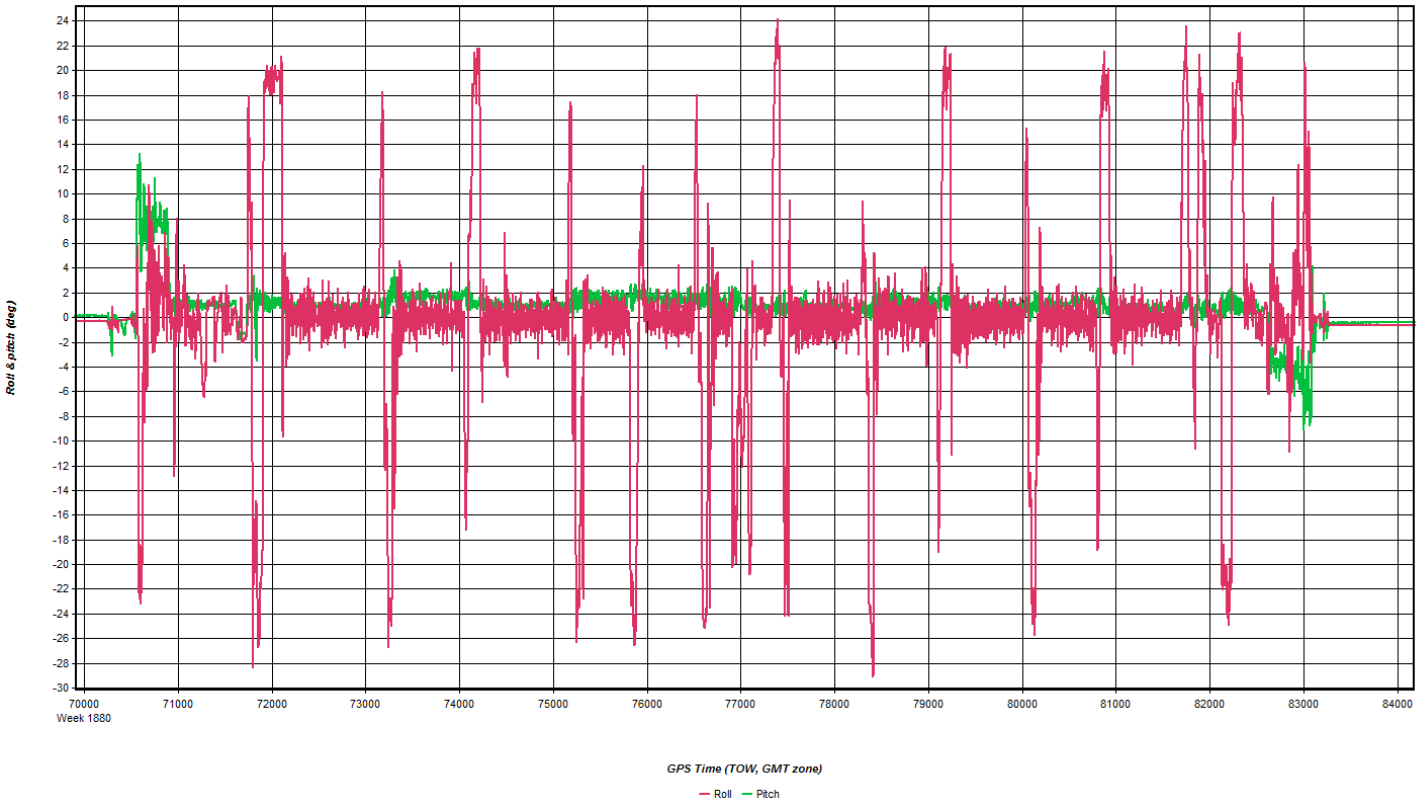

Num Sats
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
70000
Week 1880
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
81000
82000
83000
84000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

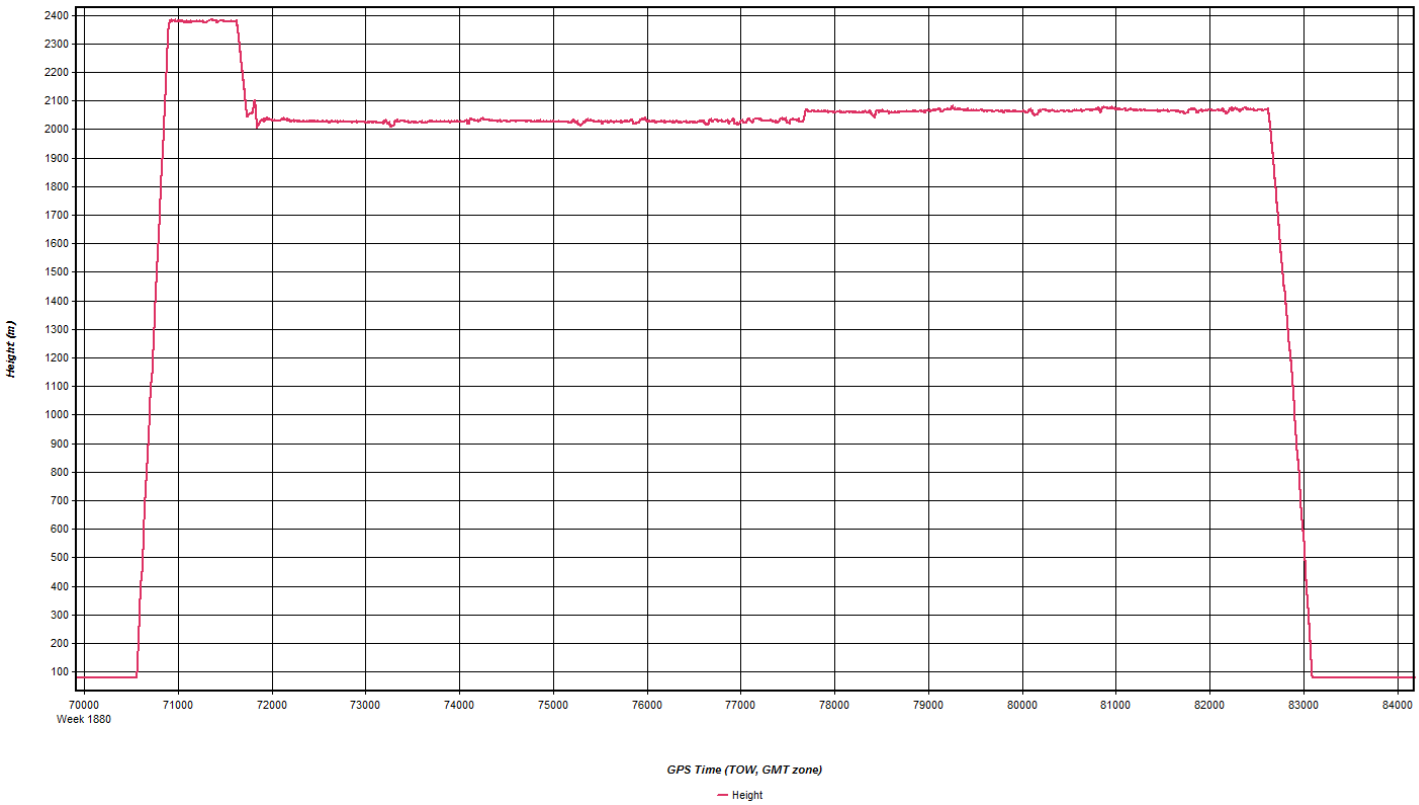

Separation (m)
0.125
0.120
0.115
0.110
0.105
0.100
0.095
0.090
0.085
0.080
0.075
0.070
0.065
0.060
0.055
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
-0.010
-0.015
-0.020
-0.025
-0.030
70000
Week 1880
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
81000
82000
83000
84000
GPS Time (TOW, GMT zone)
East
North
Up


Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
70000
Week 1880
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
81000
82000
83000
84000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

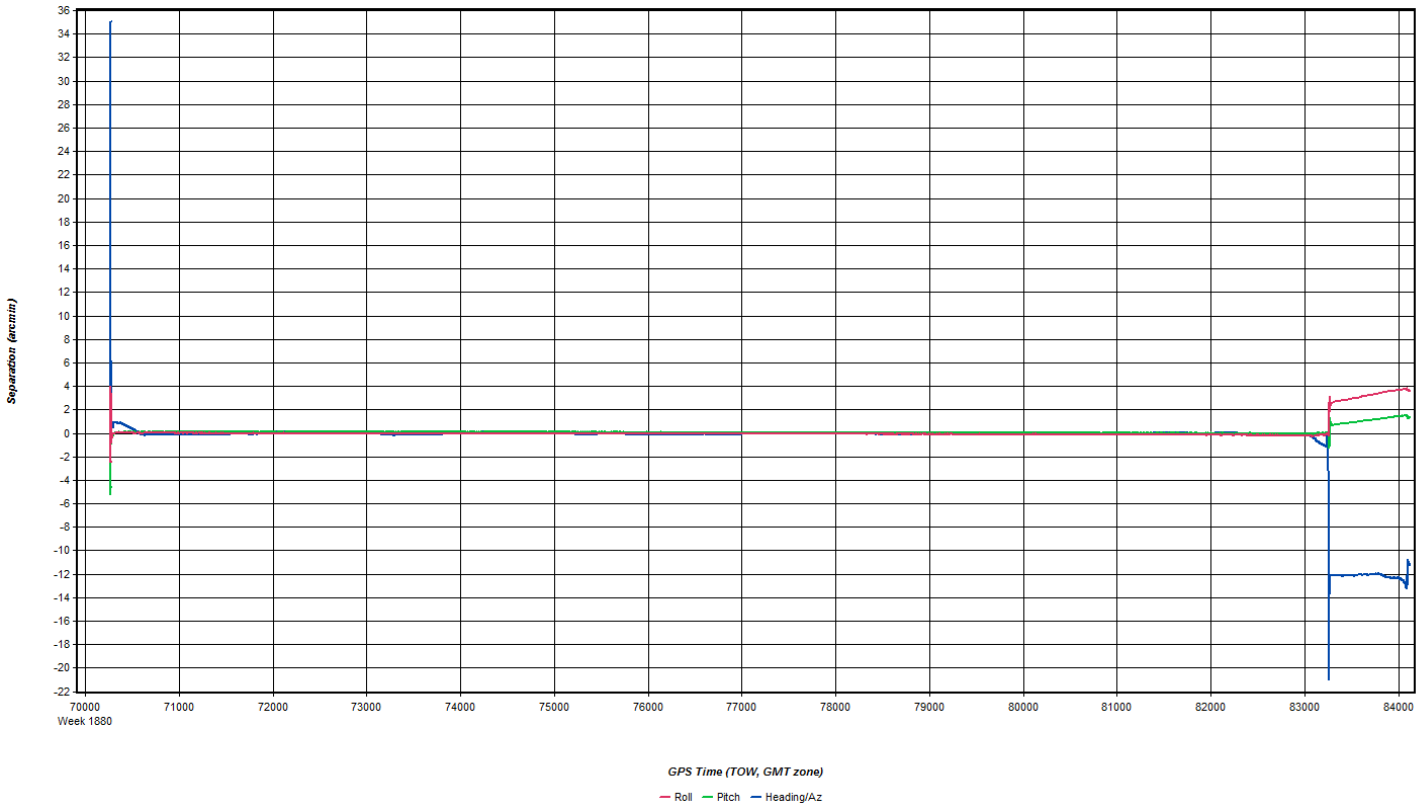

PDOP
1.65
1.60
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.55
0.50
0.45
0.40
0.35
0.30
0.25
0.20
70000
Week 1880
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
81000
82000
83000
84000
GPS Time (TOW, GMT zone)
PDOP

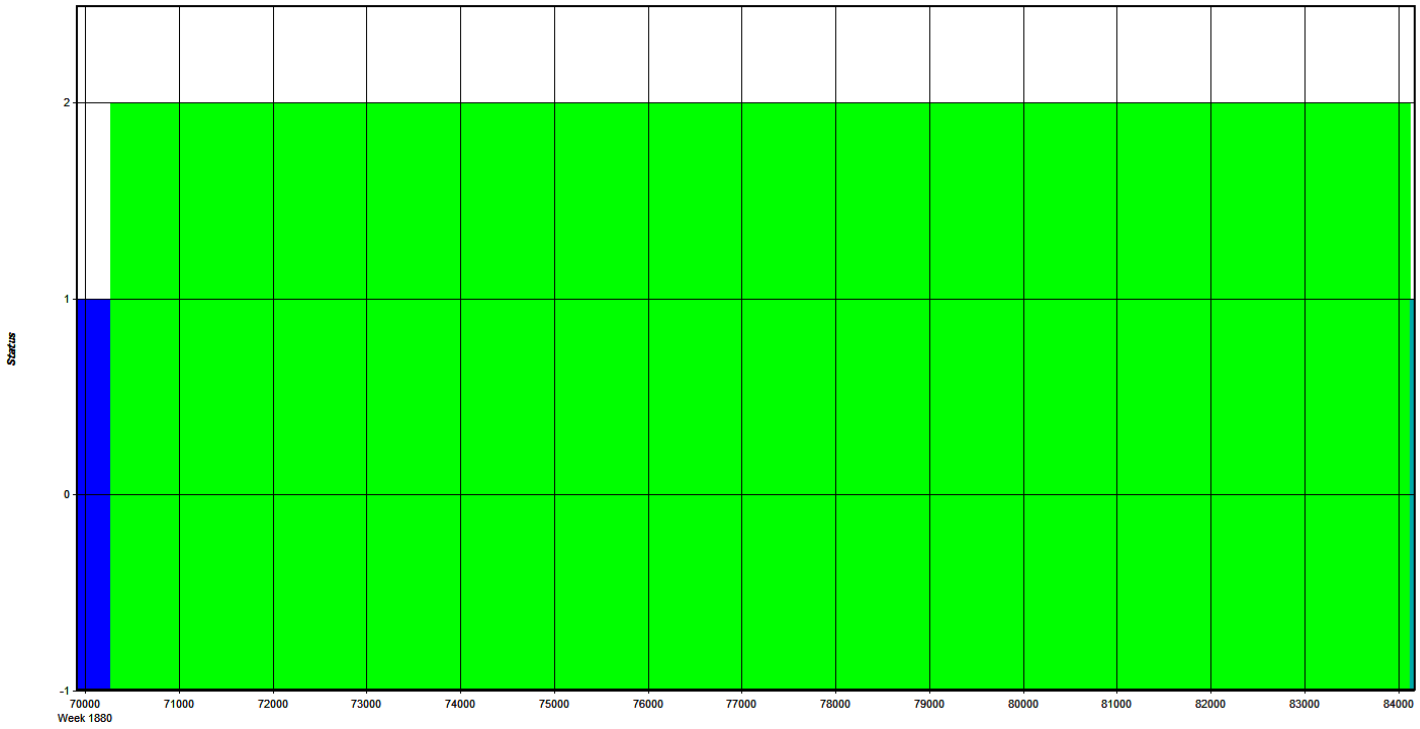

Estimated StdDev (m)
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
70000
Week 1880
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
81000
82000
83000
84000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

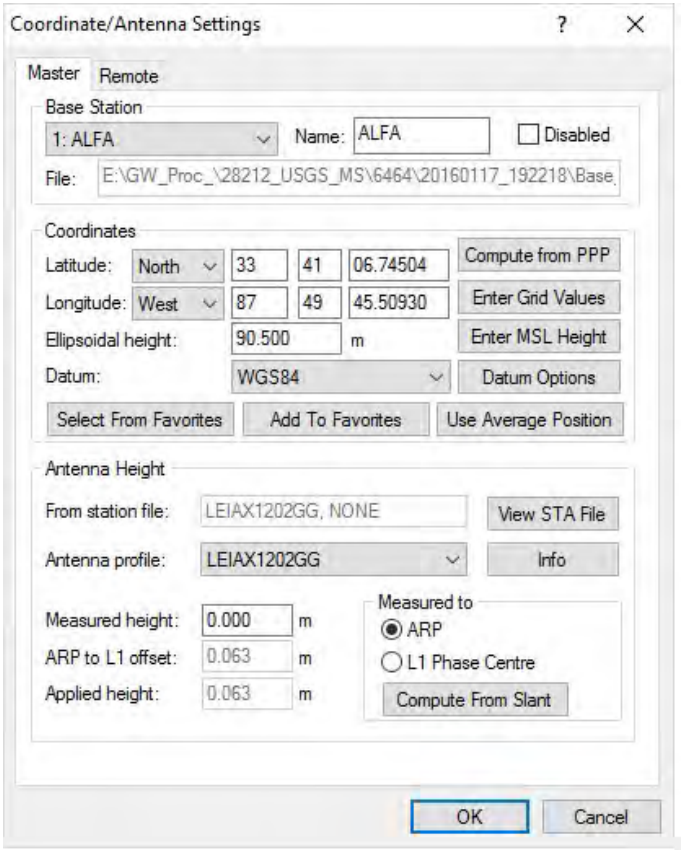

Roll & pitch (deg)
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
-28
-30
70000
Week 1880
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
81000
82000
83000
84000
GPS Time (TOW, GMT zone)
Roll
Pitch

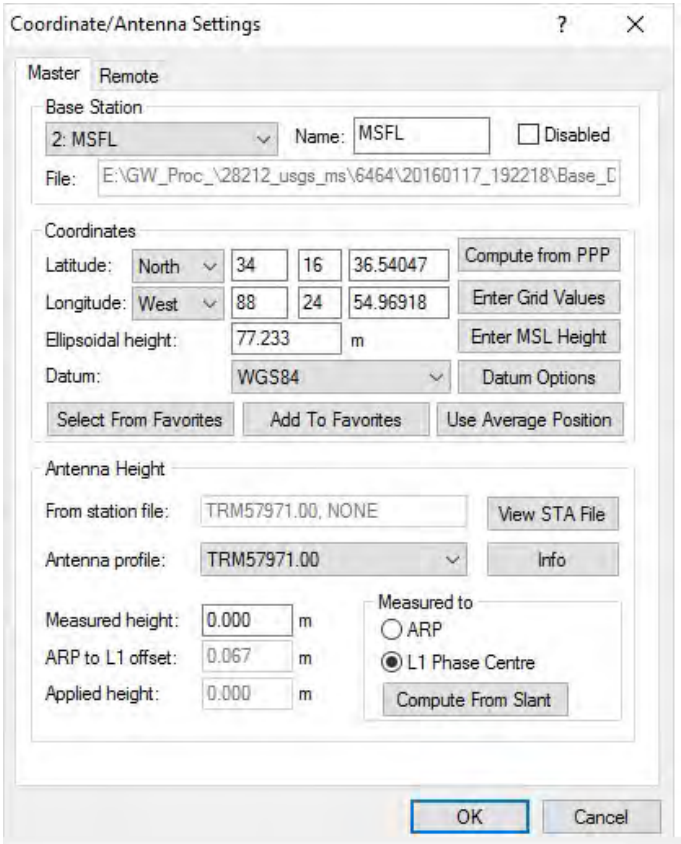

Height (m)
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
70000
Week 1880
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
81000
82000
83000
84000
GPS Time (TOW, GMT zone)
Height

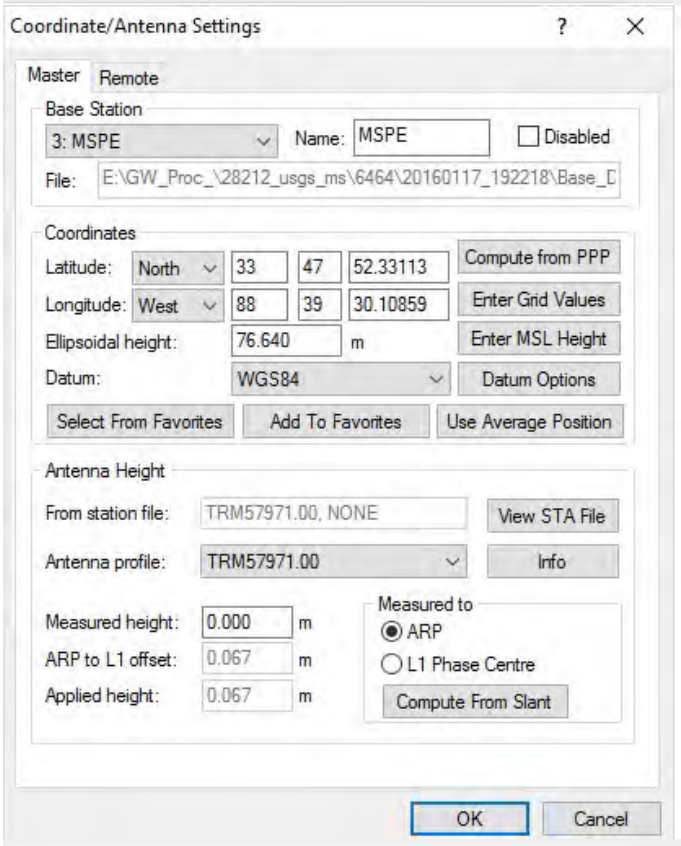

RMS (m)
0.046
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
70000
Week 1880
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
81000
82000
83000
84000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
36
34
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
70000
Week 1880
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
81000
82000
83000
84000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
70000
Week 1880
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
81000
82000
83000
84000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
1: ALFA
Name:
ALFA
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\6464\20160117_192218\Base
Coordinates
Latitude:
North
33
41
06.74504
Compute from PPP
Longitude:
West
87
49
45.50930
Enter Grid Values
Ellipsoidal height:
90.500
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
LEIAX1202GG, NONE
View STA File
Antenna profile:
LEIAX1202GG
Info
Measured height:
0.000
m
ARP to L1 offset:
0.063
m
Applied height:
0.063
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel


Coordinate/Antenna Settings
Master
Remote
Base Station
2: MSFL
Name: MSFL
Disabled
File: E:\GW_Proc_\28212_usgs_ms\6464\20160117_192218\Base_D
Coordinates
Latitude: North 34 16 36.54047
Longitude: West 88 24 54.96918
Ellipsoidal height: 77.233 m
Datum: WGS84
Compute from PPP
Enter Grid Values
Enter MSL Height
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file: TRM57971.00, NONE
View STA File
Antenna profile: TRM57971.00
Info
Measured height: 0.000 m
ARP to L1 offset: 0.067 m
Applied height: 0.000 m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel


Coordinate/Antenna Settings
Master
Remote
Base Station
3: MSPE
Name: MSPE
Disabled
File: E:\GW_Proc_\28212_usgs_ms\6464\20160117_192218\Base_D
Coordinates
Latitude: North 33 47 52.33113
Longitude: West 88 39 30.10859
Ellipsoidal height: 76.640 m
Datum: WGS84
Compute from PPP
Enter Grid Values
Enter MSL Height
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file: TRM57971.00, NONE
View STA File
Antenna profile: TRM57971.00
Info
Measured height: 0.000 m
ARP to L1 offset: 0.067 m
Applied height: 0.067 m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log

OPERATORS FLIGHT LOG

YYYYMMDD_TIME(GPS)

MISSION: 20160917-141723 | DATE: 01-17-16 | LEICA ALS-70 | JSI

PILOT: MICAH YBARROLA | OPERATOR: JIM SCHOONE | AIRCRAFT: N 22GE | SENSOR: 7178

PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	GPS TIME START	GPS TIME STOP	MM70 DRIVE	REMARKS
28218									FT	19:25	20:04		FERRY: TUP → SITE
											19:46		CORS-MSPE
USGS-MISSISSIPPI													
	406	01	170	53	40	273	255	1	6060	20:04	20:18	4	
	407	181							6060	20:22	20:33		
	408	01							6060	20:41	20:52		
	409	181							6060	20:56	21:03		
	410	01							6306	21:07	21:14		
6	411	181							6289	21:18	21:21		
X	412	03							6289	21:25	21:28		
	312	06							6187	21:32	21:44		
	311	186							6191	21:47	21:57		
	310	06							6237	22:02	22:13		
	309	186							6073	22:16	22:26		
11	308	06							6093	22:30	22:41		
X	412	03							6293	22:45	22:56		
											22:56		CORS-MSFL
											23:12		FERRY: SITE → TUP

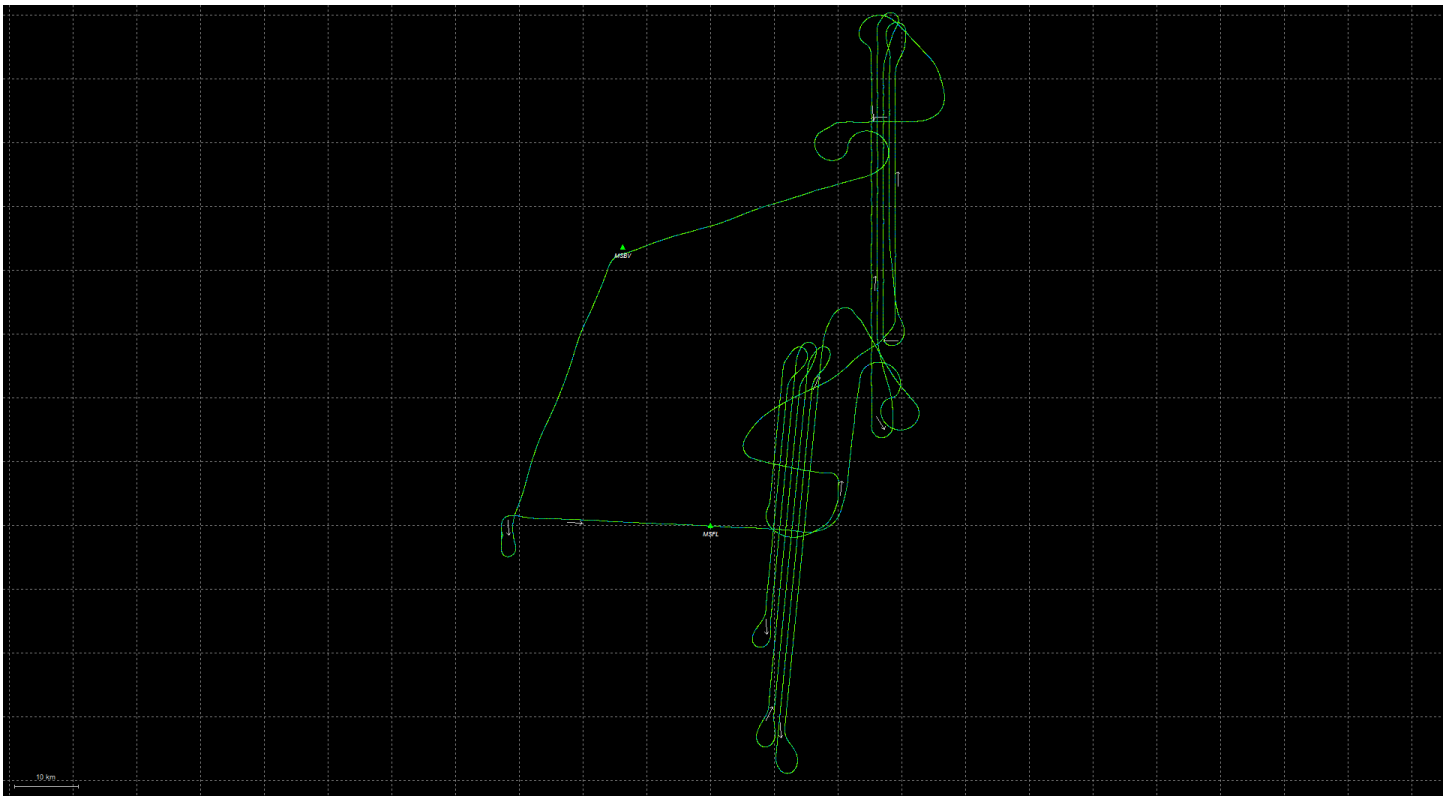
STATUS	TOTAL LINES	FLOWN	AIRCRAFT LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP
28218	508	85/11	472	2.7	1.0	3.7	19:25	23:12
	36					WX SKC		

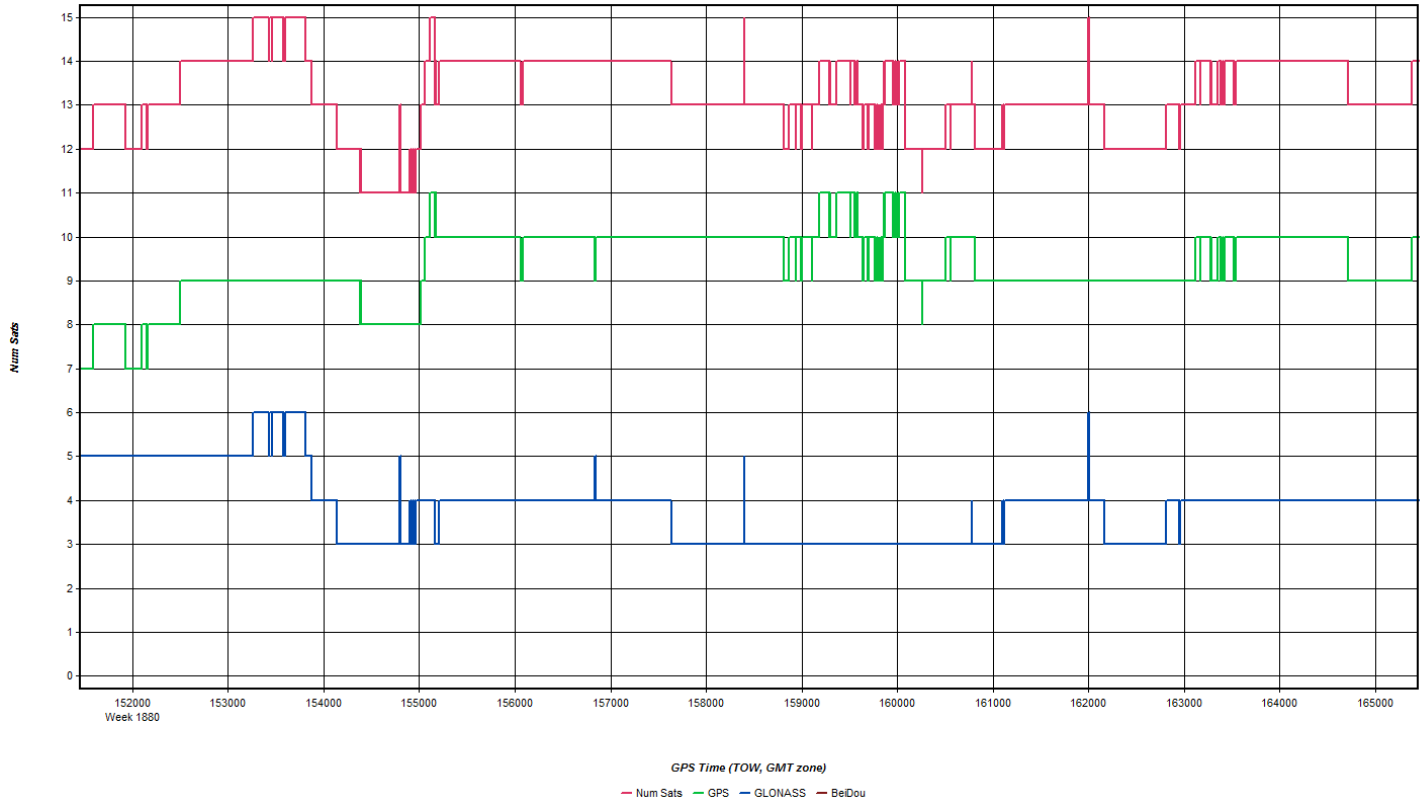
NOTES: BASE SET AT TUP
HOBBS: 8558.0
8561.5

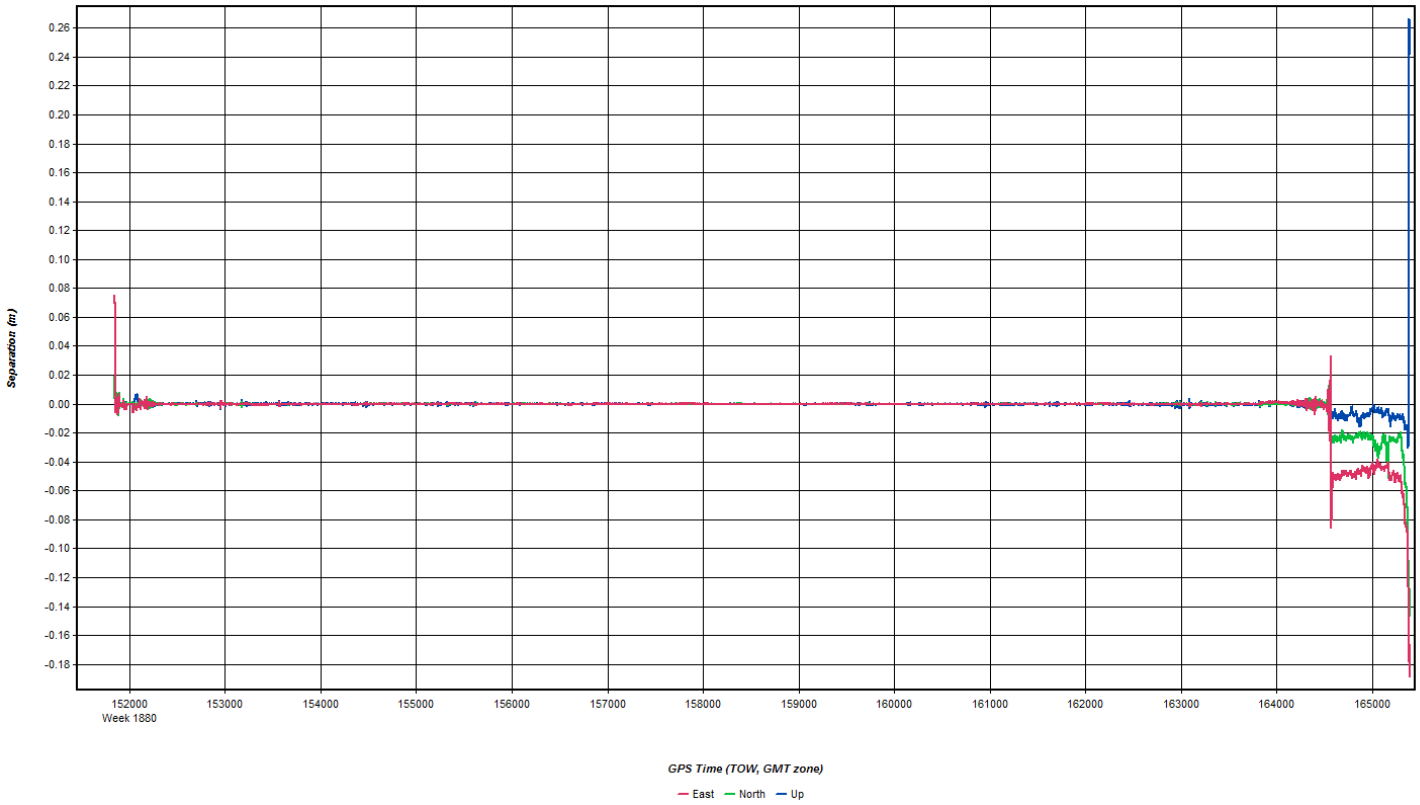
Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@quantumspatial.com

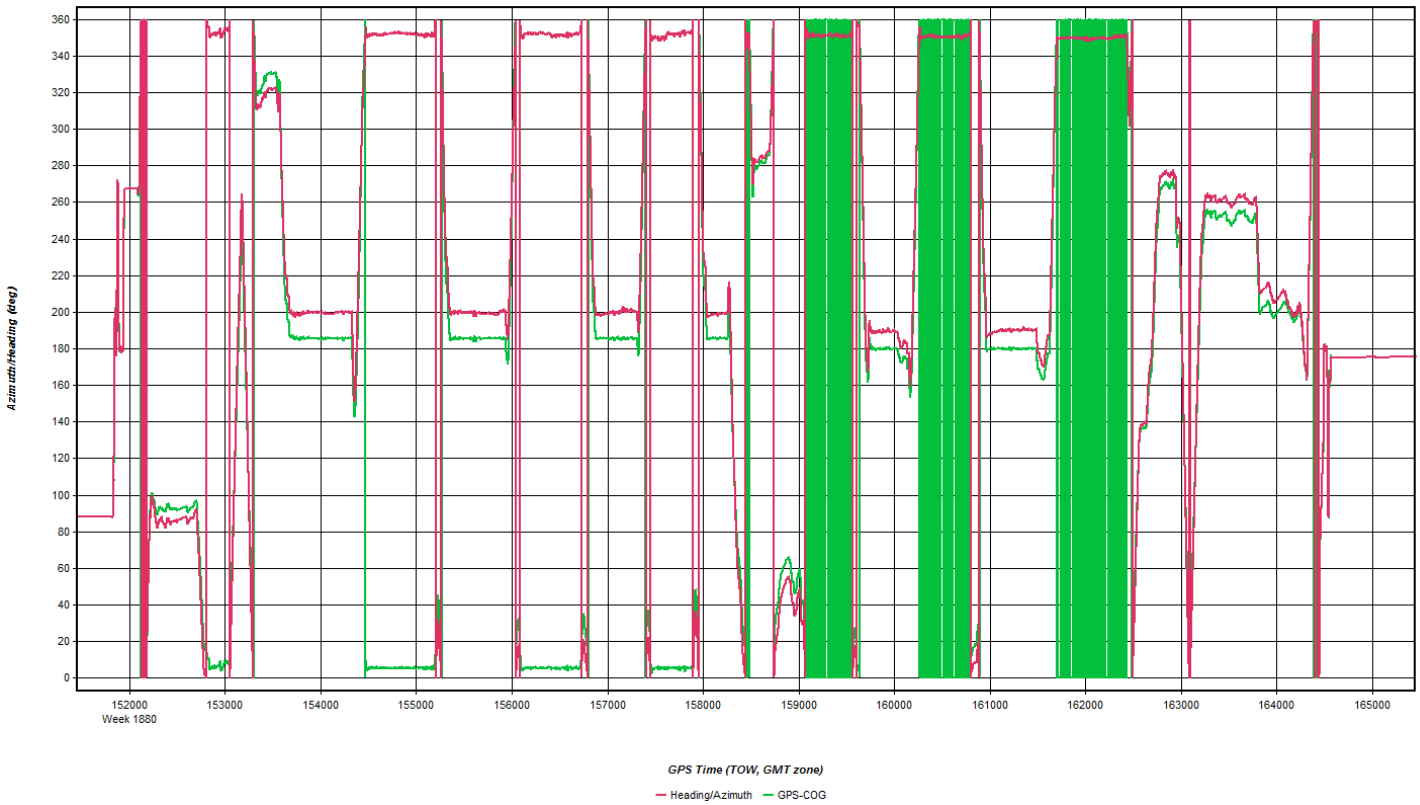
North AOI - UTM Zone 16

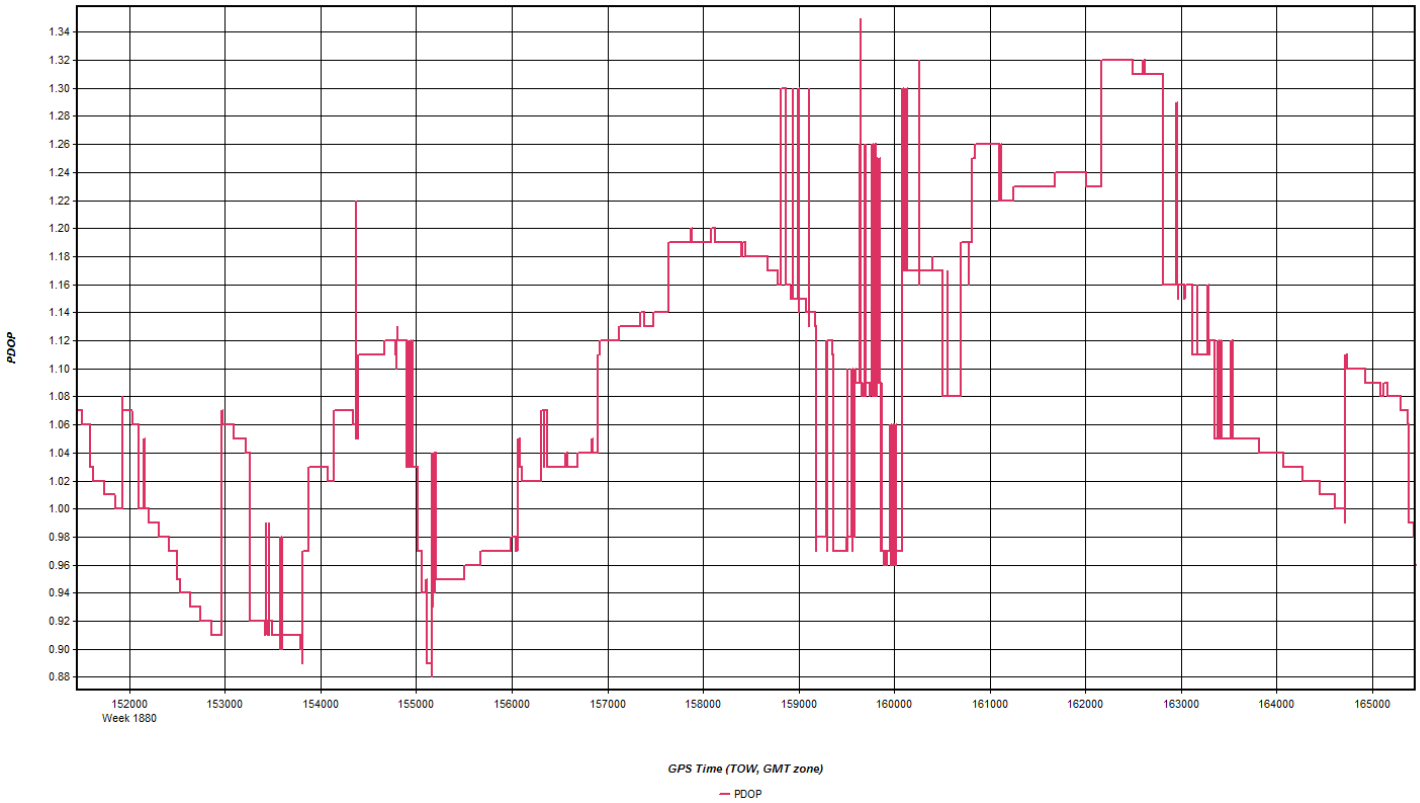
Jan 18, 2016-A (N22GE, SN7178)

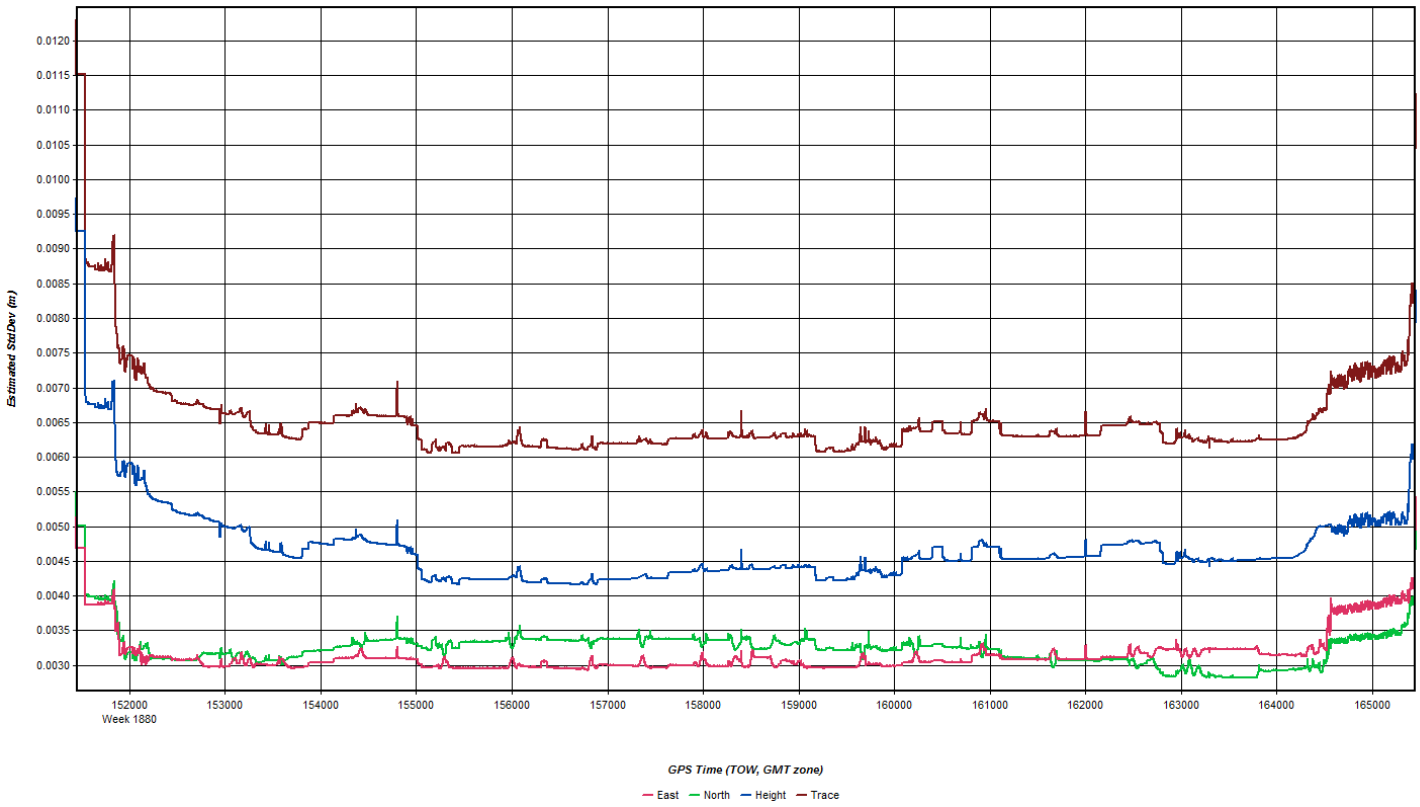

MSBY
MSPL
10 km

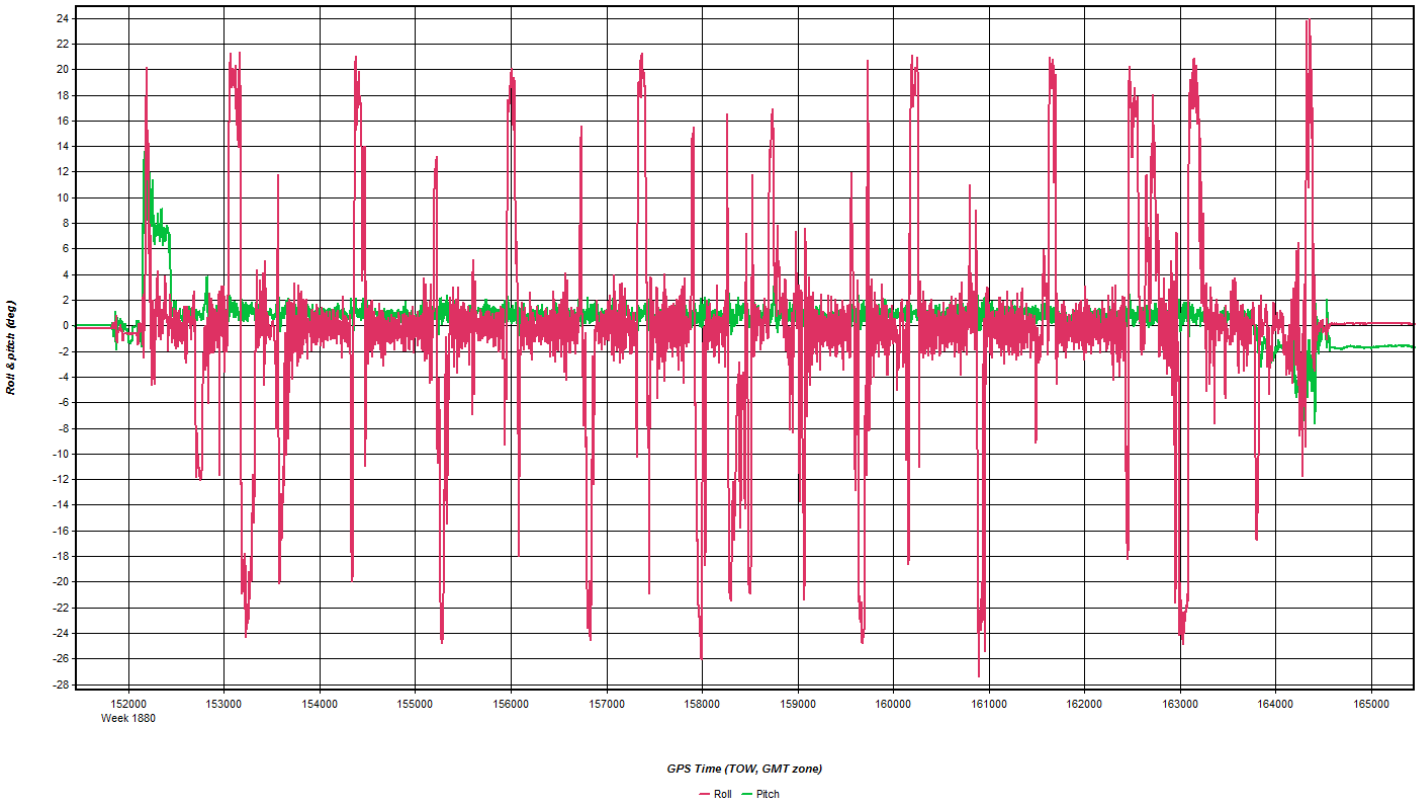

Num Sats
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
152000
Week 1880
153000
154000
155000
156000
157000
158000
159000
160000
161000
162000
163000
164000
165000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

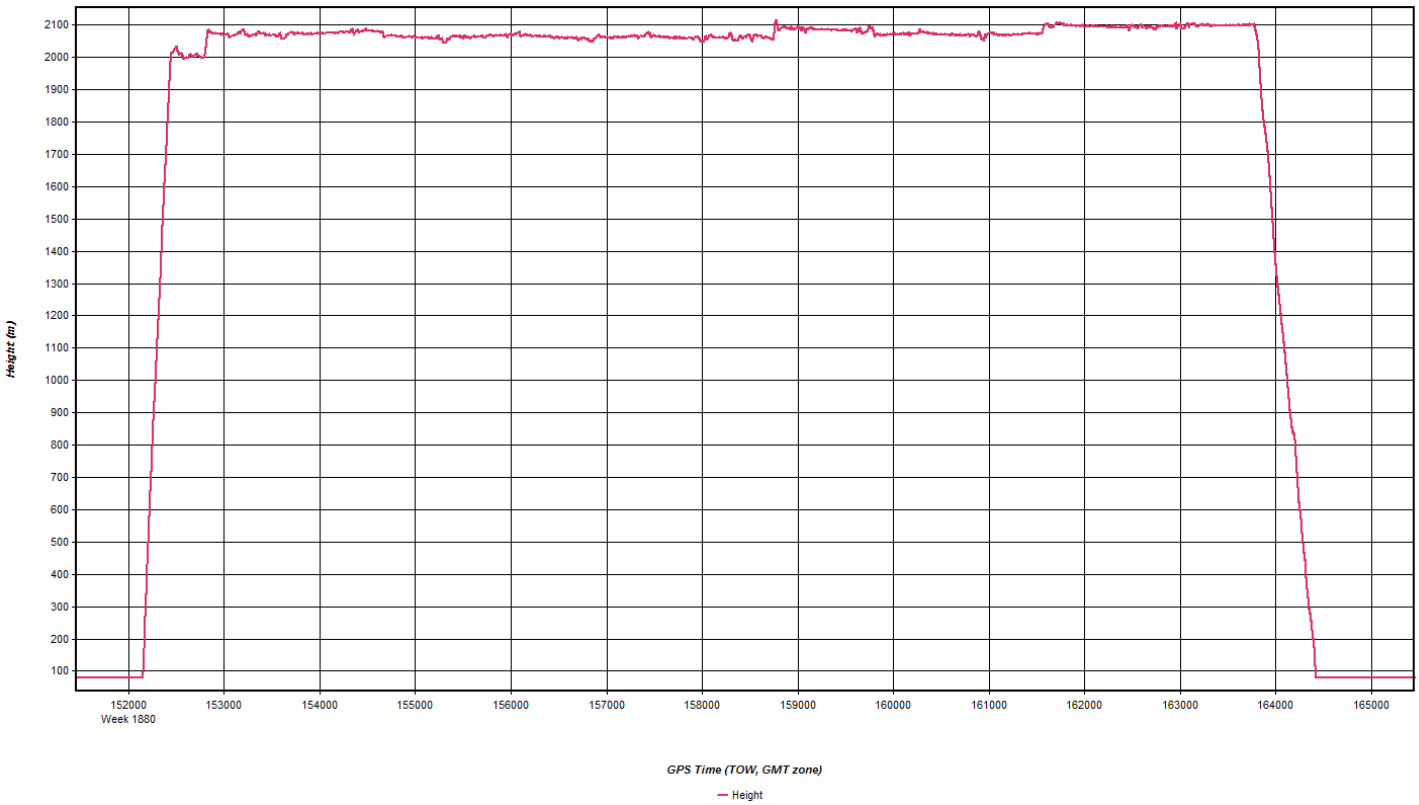

Separation (m)
0.26
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
-0.10
-0.12
-0.14
-0.16
-0.18
152000
Week 1880
153000
154000
155000
156000
157000
158000
159000
160000
161000
162000
163000
164000
165000
GPS Time (TOW, GMT zone)
East
North
Up


Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
152000
Week 1880
153000
154000
155000
156000
157000
158000
159000
160000
161000
162000
163000
164000
165000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

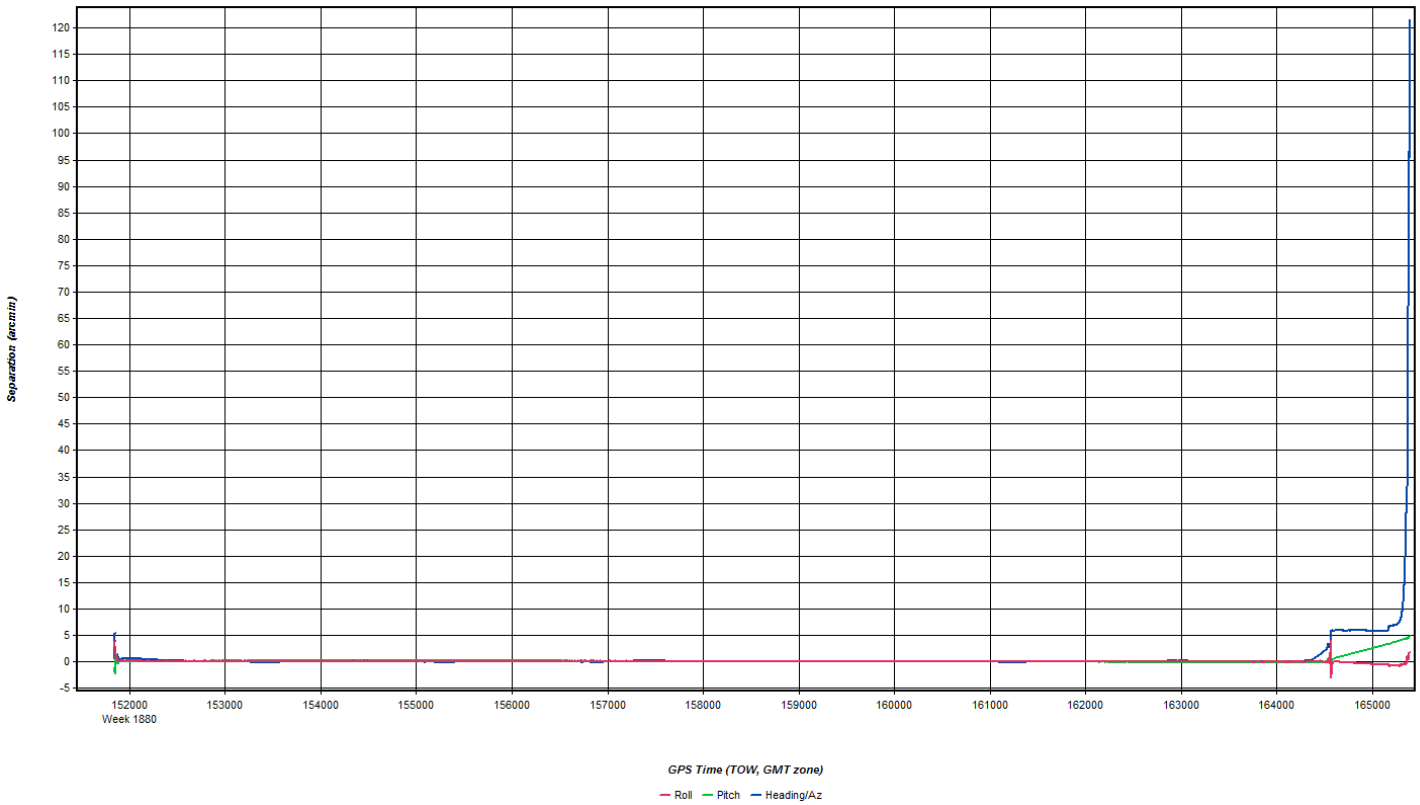

PDOP
1.34
1.32
1.30
1.28
1.26
1.24
1.22
1.20
1.18
1.16
1.14
1.12
1.10
1.08
1.06
1.04
1.02
1.00
0.98
0.96
0.94
0.92
0.90
0.88
152000
Week 1880
153000
154000
155000
156000
157000
158000
159000
160000
161000
162000
163000
164000
165000
GPS Time (TOW, GMT zone)
PDOP

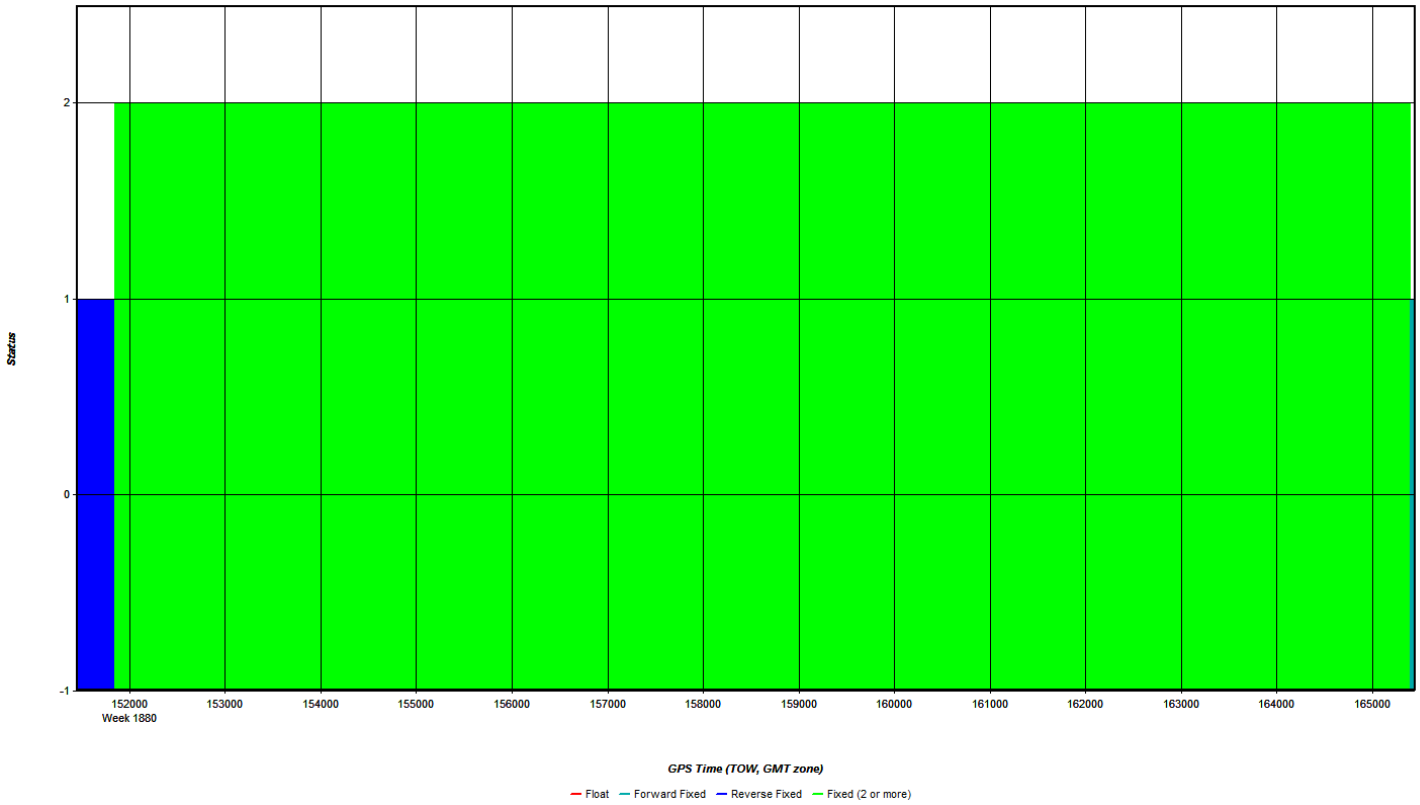

Estimated StdDev (m)
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
152000
Week 1880
153000
154000
155000
156000
157000
158000
159000
160000
161000
162000
163000
164000
165000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

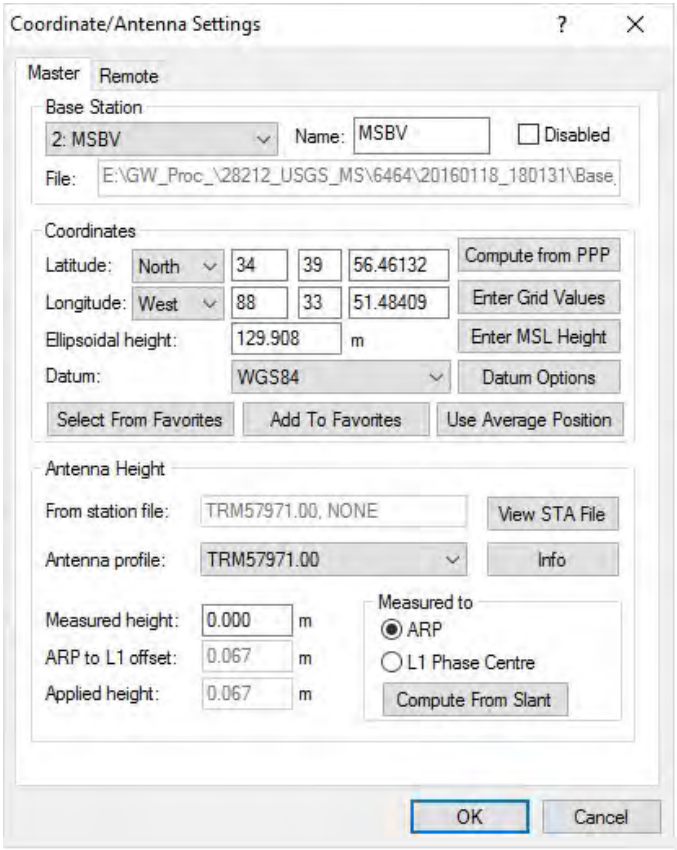

Roll & pitch (deg)
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
-28
152000
Week 1880
153000
154000
155000
156000
157000
158000
159000
160000
161000
162000
163000
164000
165000
GPS Time (TOW, GMT zone)
Roll
Pitch

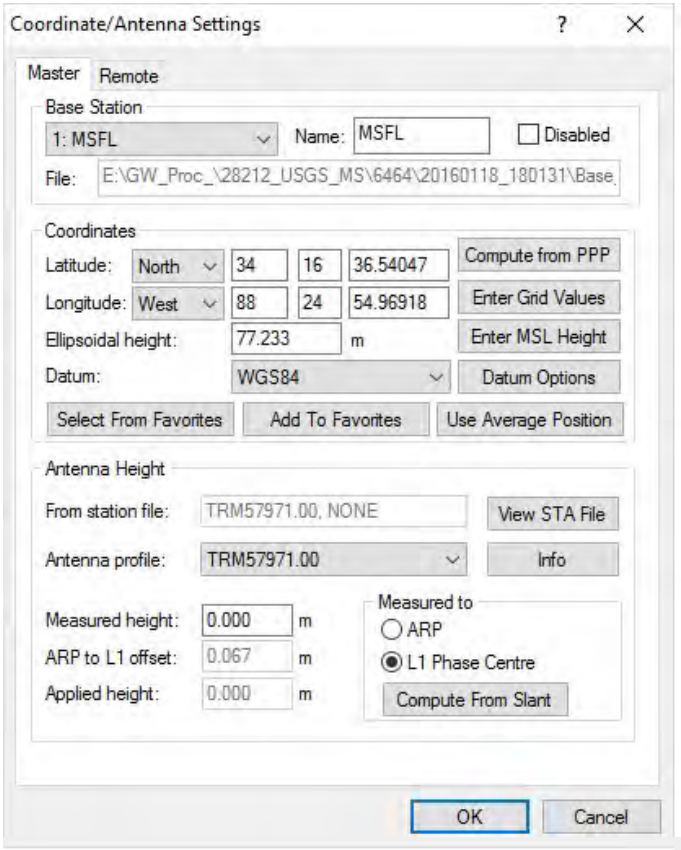

Height (m)
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
152000
Week 1880
153000
154000
155000
156000
157000
158000
159000
160000
161000
162000
163000
164000
165000
GPS Time (TOW, GMT zone)
Height


RMS (m)
0.046
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
152000
Week 1880
153000
154000
155000
156000
157000
158000
159000
160000
161000
162000
163000
164000
165000
GPS Time (TOW, GMT zone)
RMS
SD

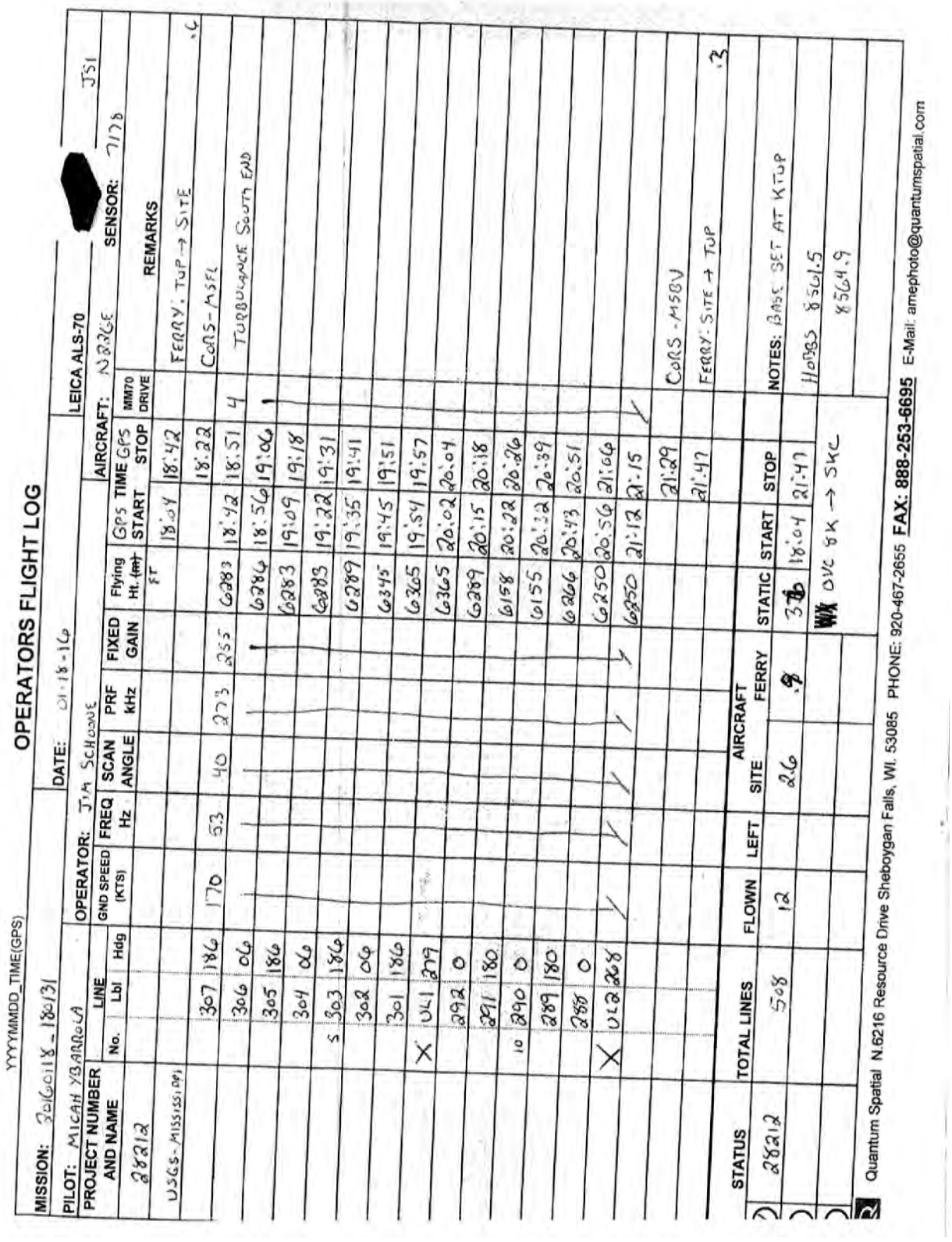

Separation (arcmin)
120
115
110
105
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
-5
152000
Week 1880
153000
154000
155000
156000
157000
158000
159000
160000
161000
162000
163000
164000
165000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
152000
Week 1880
153000
154000
155000
156000
157000
158000
159000
160000
161000
162000
163000
164000
165000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
2: MSBV
Name:
MSBV
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\6464\20160118_180131\Base
Coordinates
Latitude:
North
34
39
56.46132
Compute from PPP
Longitude:
West
88
33
51.48409
Enter Grid Values
Ellipsoidal height:
129.908
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM57971.00, NONE
View STA File
Antenna profile:
TRM57971.00
Info
Measured height:
0.000
m
ARP to L1 offset:
0.067
m
Applied height:
0.067
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSFL
Name:
MSFL
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\6464\20160118_180131\Base
Coordinates
Latitude:
North
34
16
36.54047
Compute from PPP
Longitude:
West
88
24
54.96918
Enter Grid Values
Ellipsoidal height:
77.233
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM57971.00, NONE
View STA File
Antenna profile:
TRM57971.00
Info
Measured height:
0.000
m
ARP to L1 offset:
0.067
m
Applied height:
0.000
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log



OPERATORS FLIGHT LOG

YYYYMMDD_TIME(GPS)

MISSION: 20160118_180131 DATE: 01-18-16 LEICA ALS-70

PILOT: MICAH YBARRA OPERATOR: JIM SCHUSSLE AIRCRAFT: N8366E SENSOR: 751

PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (mt) FT	GPS TIME START	GPS TIME STOP	MM70 DRIVE	REMARKS
28212													
USGS-MISSISSIPPI													
	307	186	170		53	40	273	255	6383	18:42	18:51	4	TURBULENCE SOUTH END
	306	06							6284	18:56	19:06	1	
	305	186							6283	19:09	19:18		
	304	06							6383	19:22	19:31		
	303	186							6289	19:35	19:41		
	302	06							6345	19:45	19:51		
	301	186							6365	19:54	19:57		
X	041	279							6365	20:02	20:04		
	292	0							6289	20:15	20:18		
	291	180							6158	20:22	20:26		
10	290	0							6155	20:32	20:39		
	289	180							6266	20:43	20:51		
	288	0							6250	20:56	21:06		
X	042	268							6350	21:12	21:15		
											21:29		CORS - MSGV
											21:47		FERRY: SITE → TUP

STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	NOTES
28212	508	12		2.6	.9	36	18:04	21:47	BASE SET AT KTUP
						WX	OVC 8K → SKC		HOBBS 8561.5
									8564.9

Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@quantumspatial.com

Base Station Log

GPS OBSERVATION LOG

CAROL CONE AZ
MK 2
PID EG1946

Station ID	
Project Number	28212
Project Name	USGS MS.
Rcvr. Type	Novatel DL-V3-L1L2
Rcvr. S/N	7-0141418
Antenna Type	Novatel
Antenna S/N	NAE12110035
Mission	20160118_180131 20160118-221832

Date	01 / 18 / 2016
Julian Date	018
Start Time	17 :35 : : GPS
Stop Time	22 : 33 : : GPS
Rcvr. File Name	0180180.PDC
Observer	J. SCHOONE

New or Existing Mon. ☐ New ☒ Existing

Photo Taken: ☒ Yes ☐ No

STANDARD DISK
SET IN TOP OF A ROUND
CONCRETE POST, FLUSH
WITH THE Ground

Monument Type: _____

Spike ☐ PK Nail ☐ AM Washer ☐

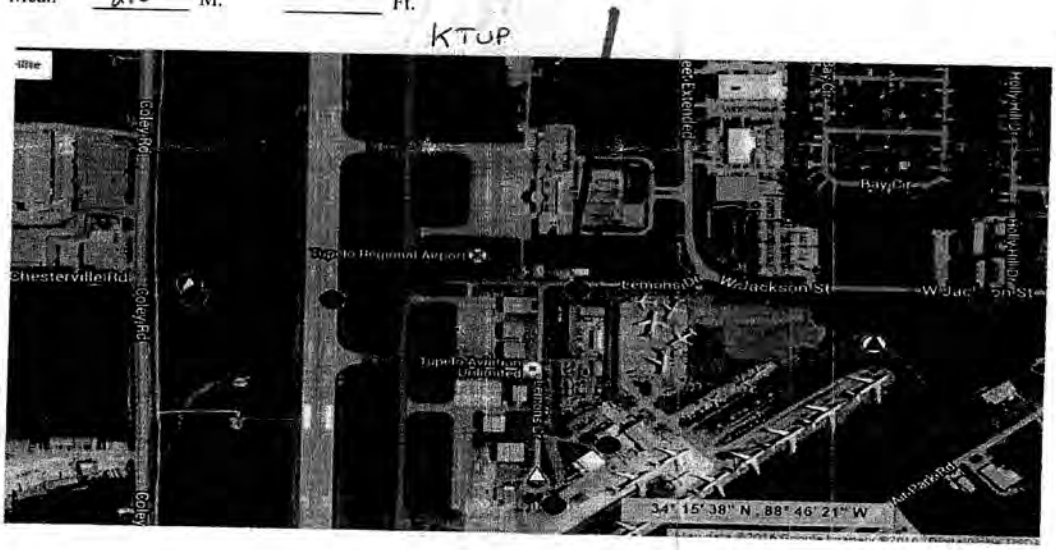
Other _____

Height Readings:
(Top of Monument to Bottom of Ground Plane)

Start	2.0	M.		Ft.
Stop	2.0	M.		Ft.
Mean	2.0	M.		Ft.

MONUMENT IS ON THE CORNER
IN FRONT OF THE NATIONAL GUARD

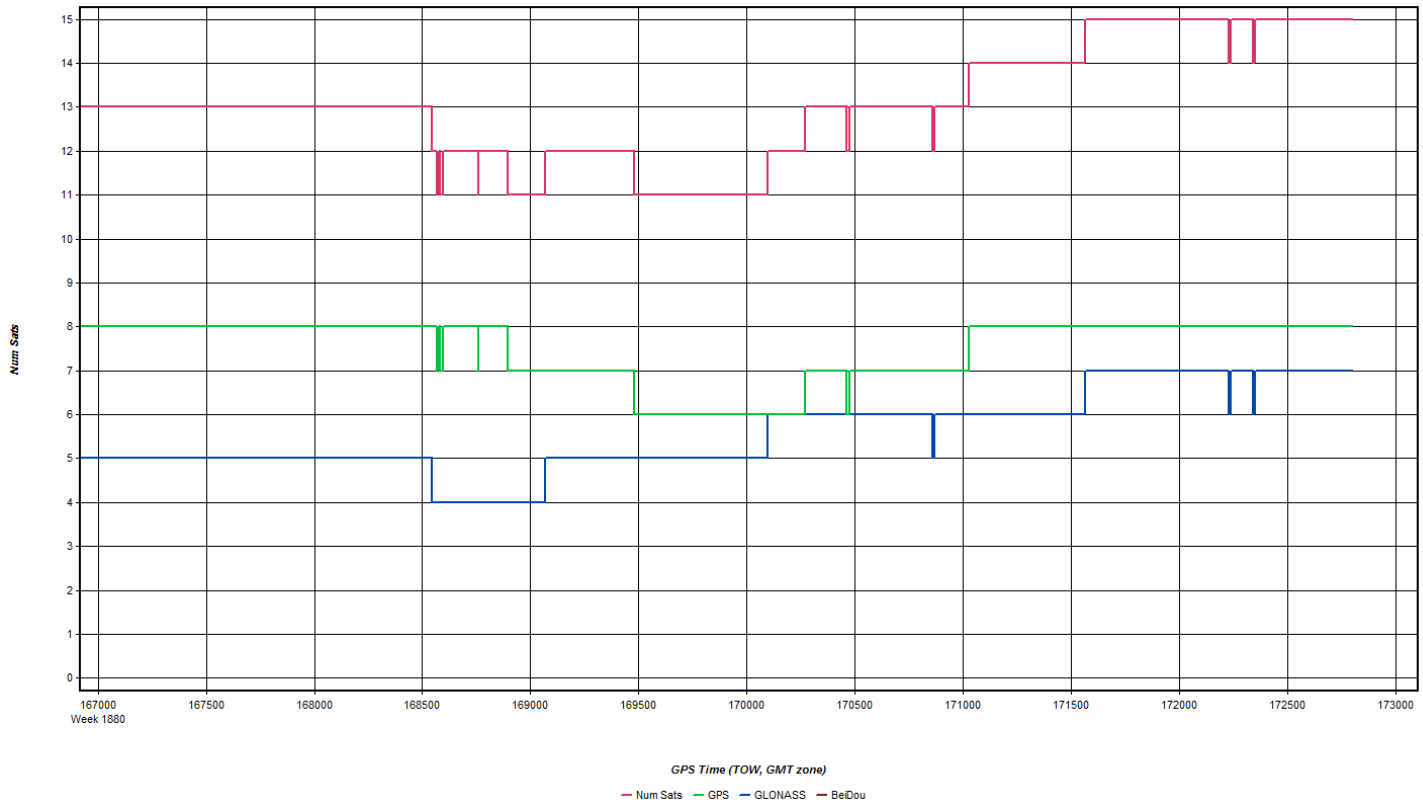
KTUP

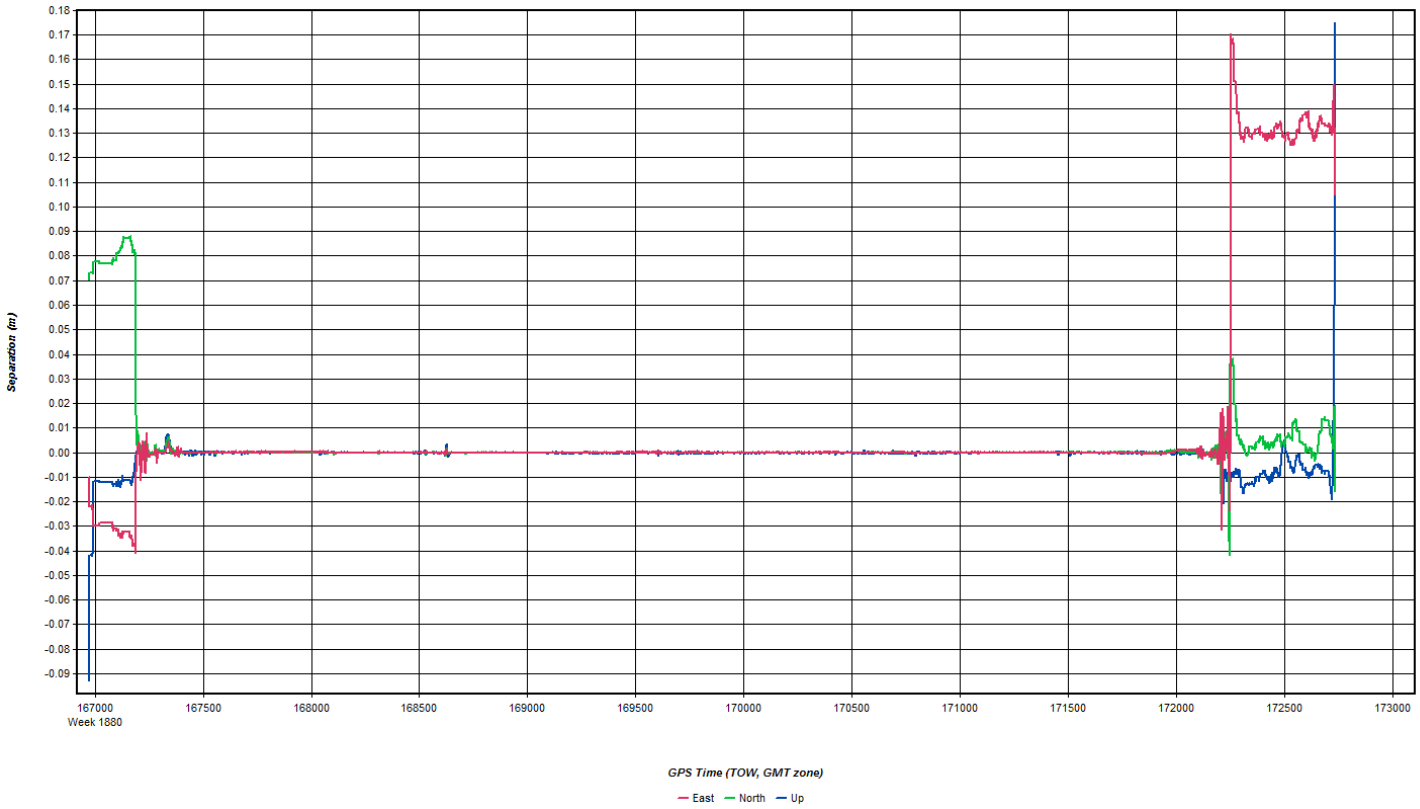


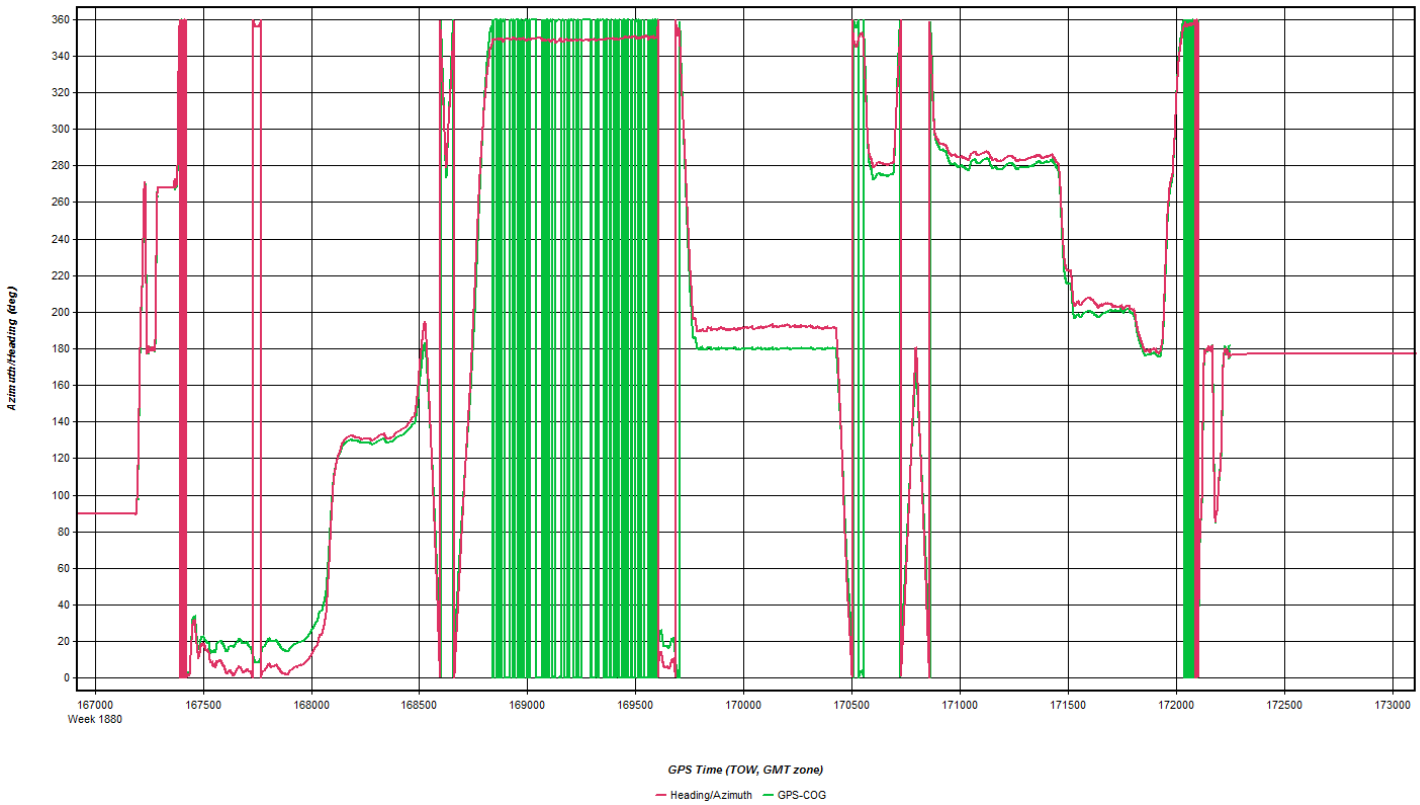
North AOI - UTM Zone 16

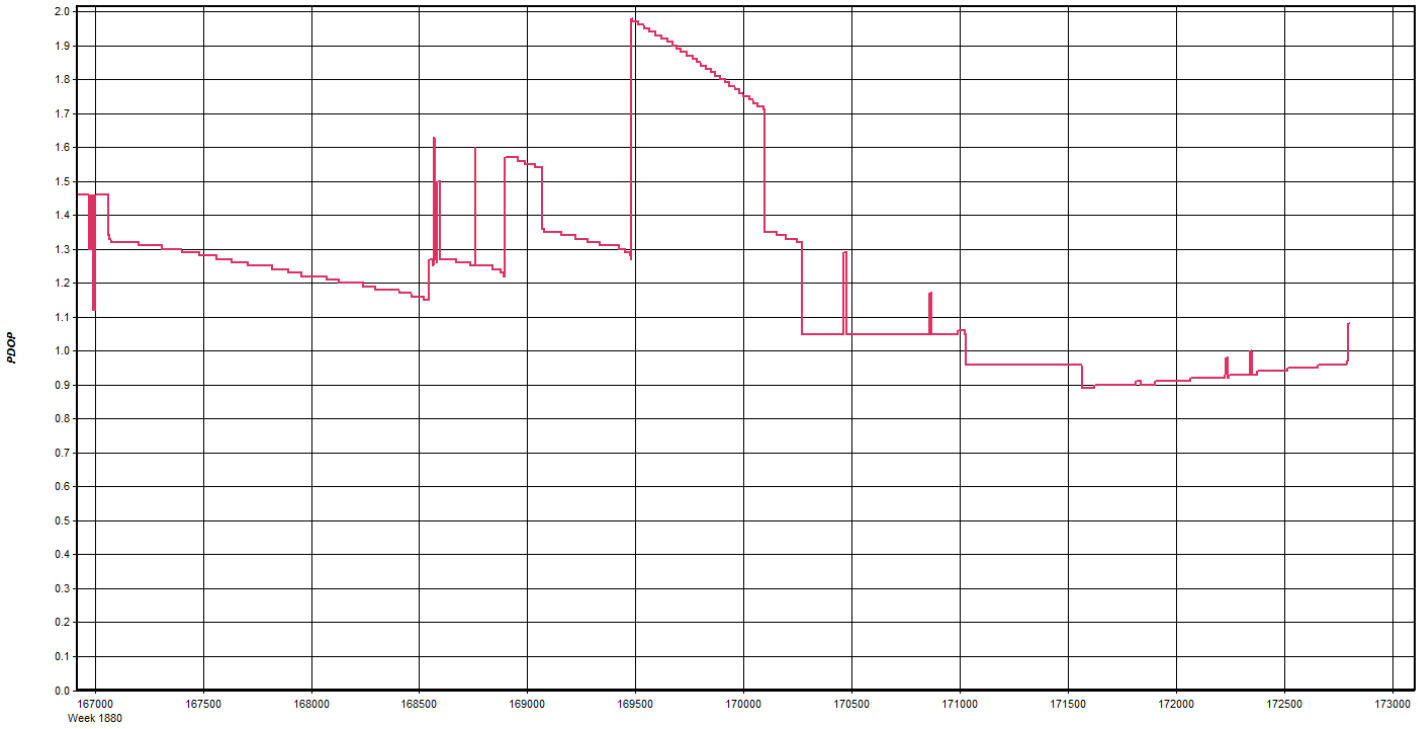
Jan 18, 2016-B (N22GE, SN7178)

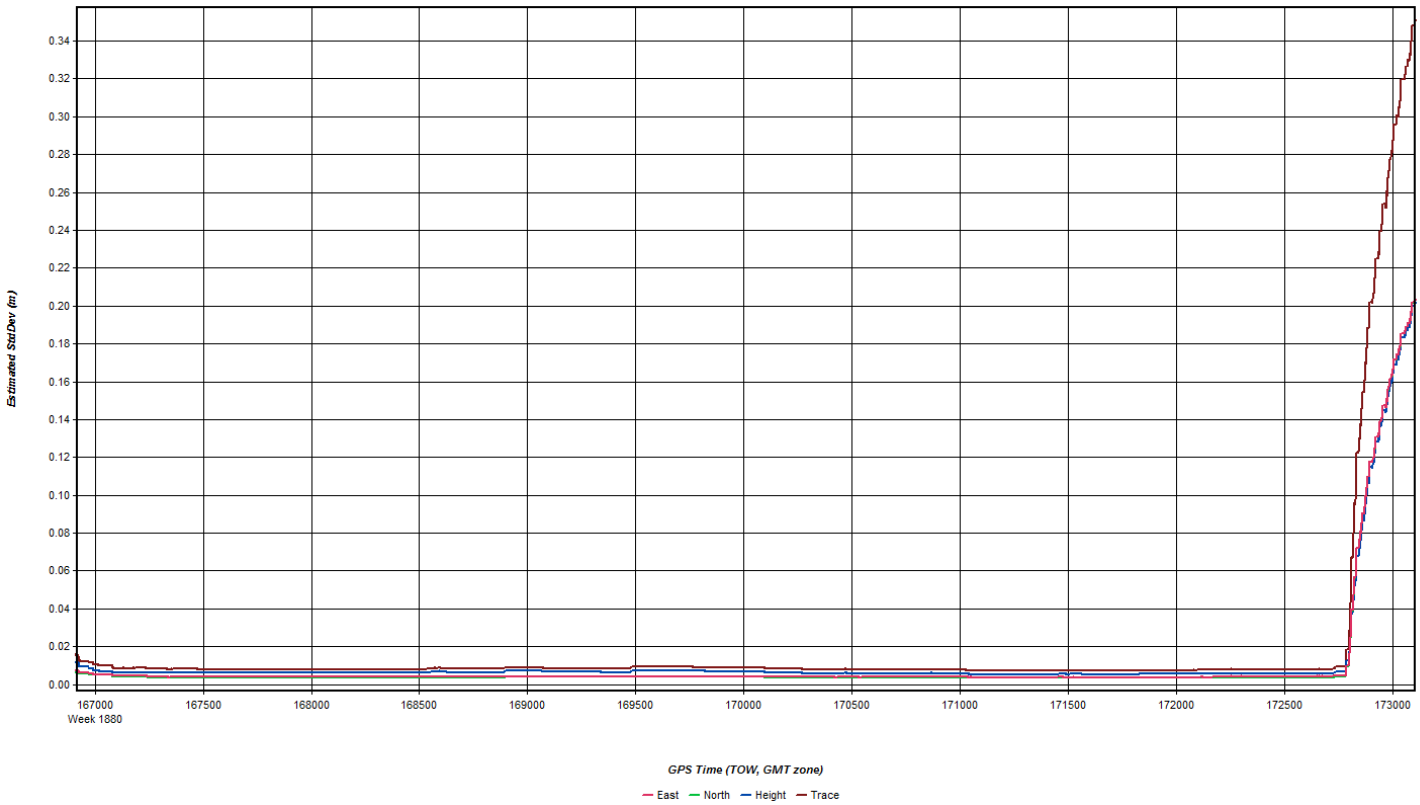


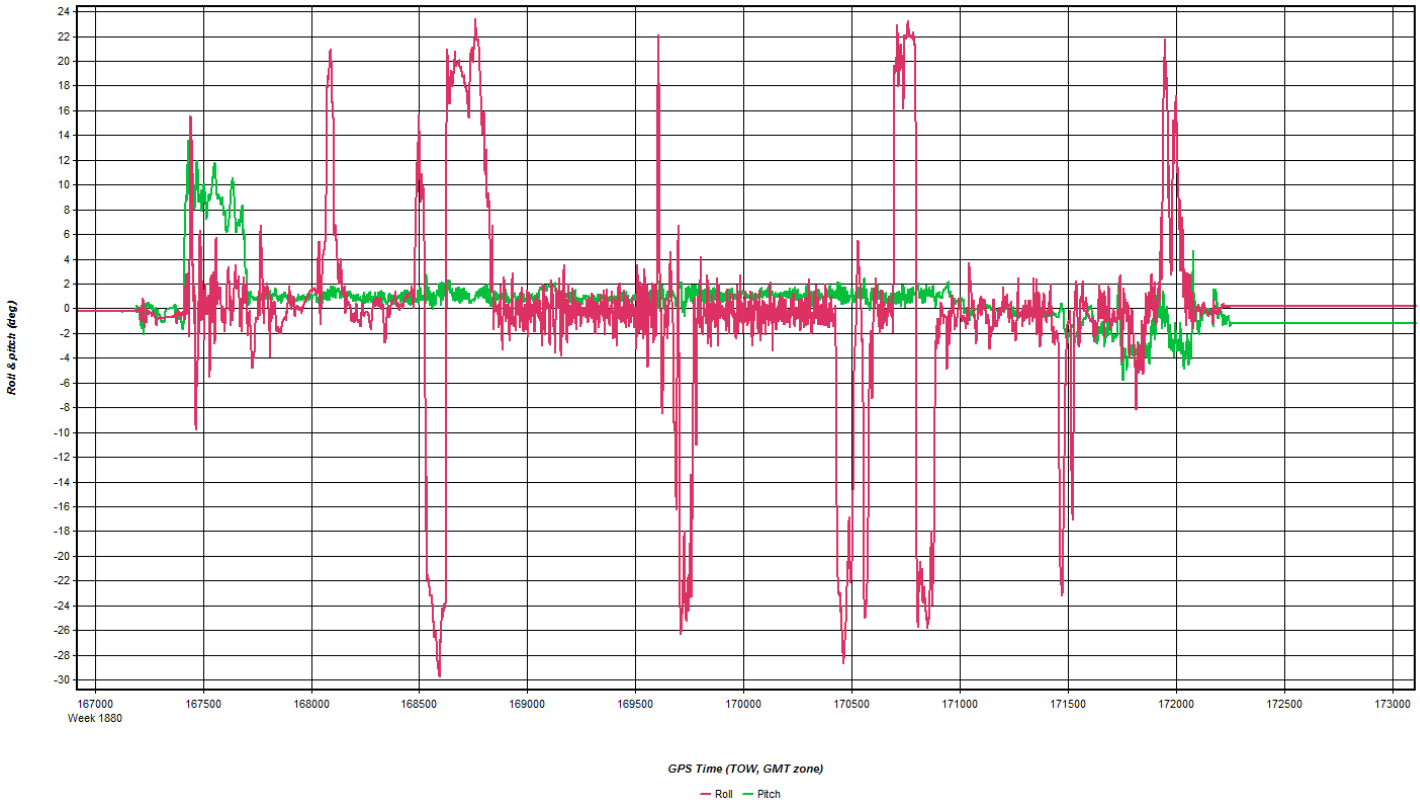

Num Sats
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
167000
Week 1880
167500
168000
168500
169000
169500
170000
170500
171000
171500
172000
172500
173000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

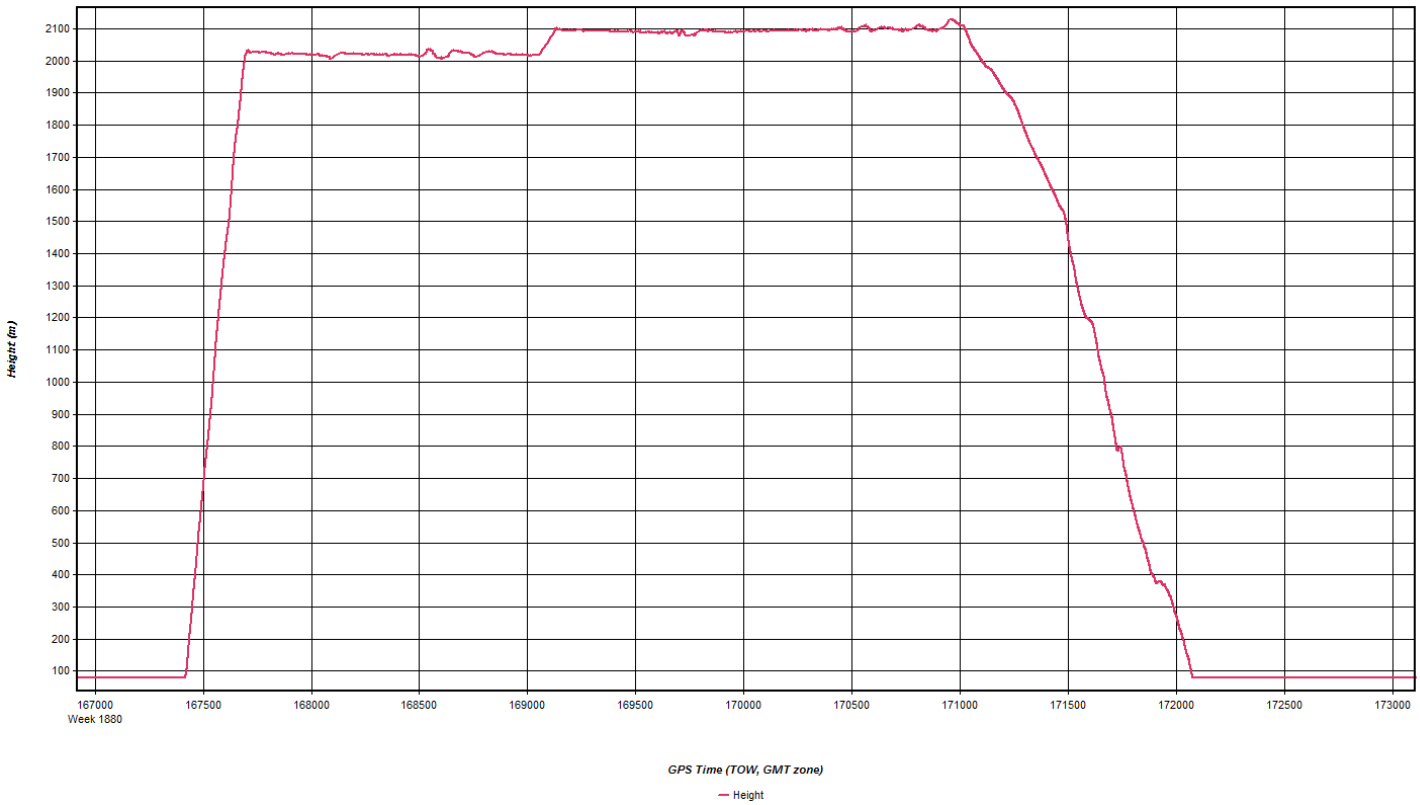

Separation (m)
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.03
-0.04
-0.05
-0.06
-0.07
-0.08
-0.09
167000
Week 1880
167500
168000
168500
169000
169500
170000
170500
171000
171500
172000
172500
173000
GPS Time (TOW, GMT zone)
East
North
Up


Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
167000
Week 1880
167500
168000
168500
169000
169500
170000
170500
171000
171500
172000
172500
173000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

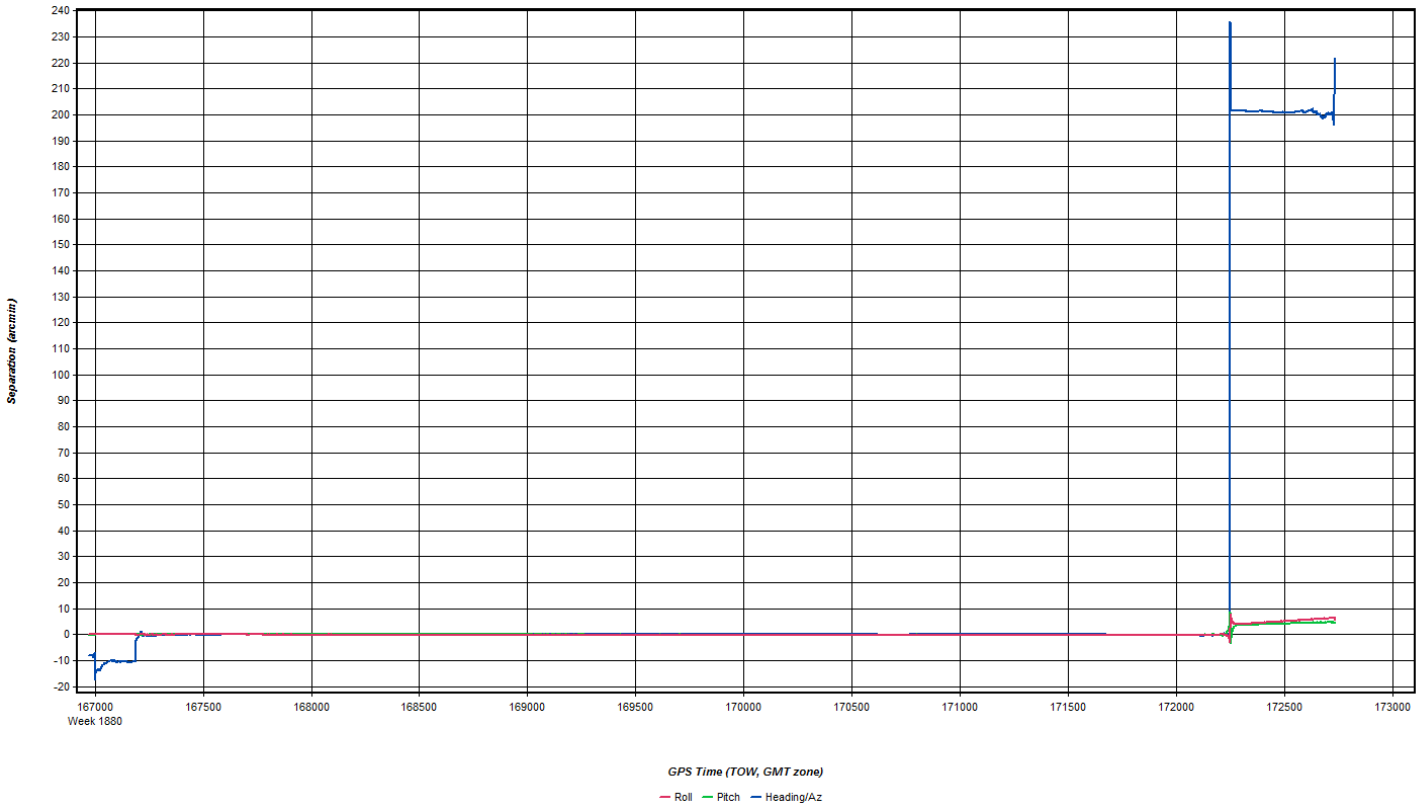

PDOP
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
167000
Week 1880
167500
168000
168500
169000
169500
170000
170500
171000
171500
172000
172500
173000
GPS Time (TOW, GMT zone)
PDOP

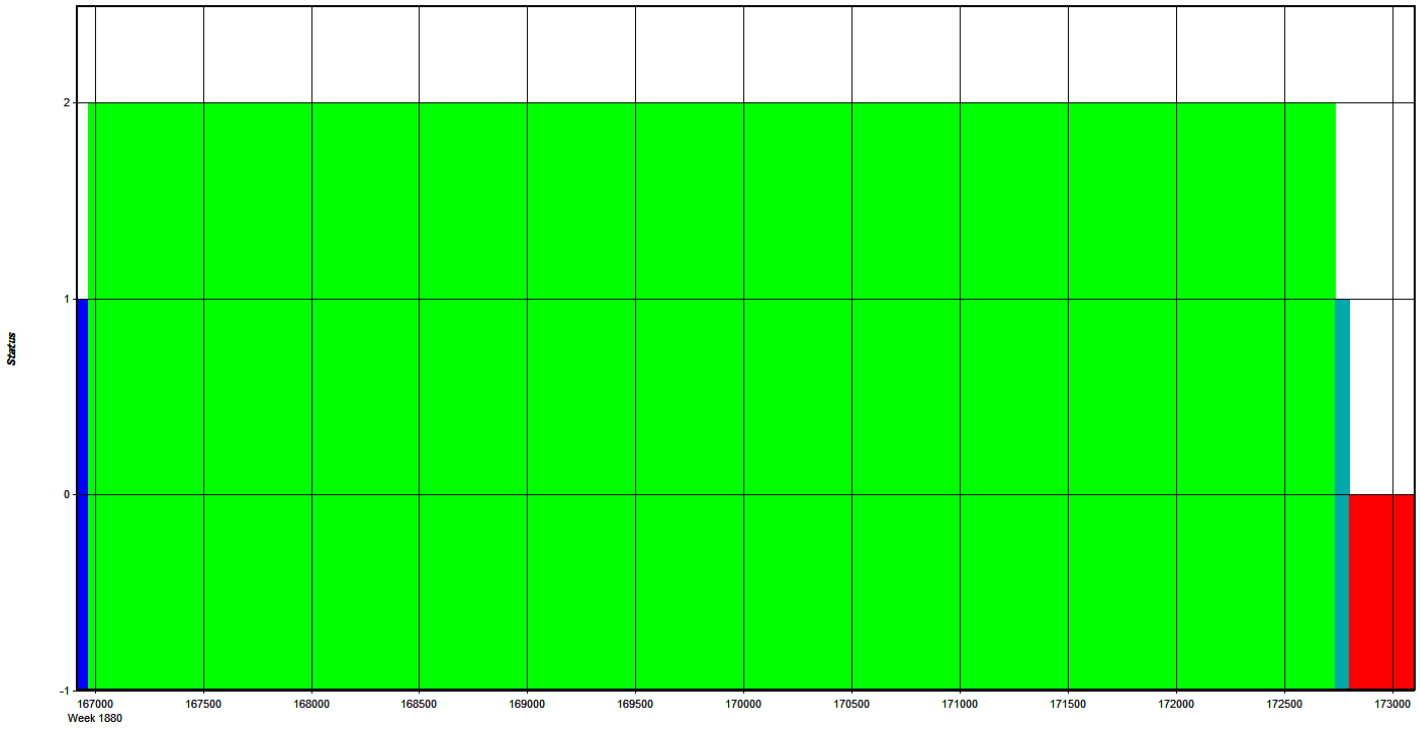

Estimated StdDev (m)
0.34
0.32
0.30
0.28
0.26
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
167000
Week 1880
167500
168000
168500
169000
169500
170000
170500
171000
171500
172000
172500
173000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

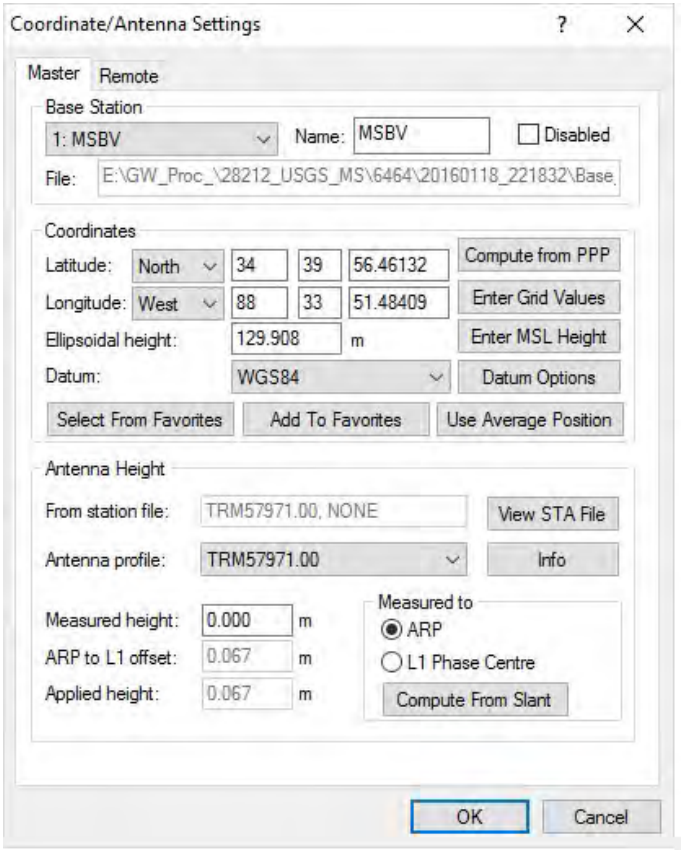

Roll & pitch (deg)
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
-28
-30
167000
Week 1880
167500
168000
168500
169000
169500
170000
170500
171000
171500
172000
172500
173000
GPS Time (TOW, GMT zone)
Roll
Pitch


Height (m)
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
167000
Week 1880
167500
168000
168500
169000
169500
170000
170500
171000
171500
172000
172500
173000
GPS Time (TOW, GMT zone)
Height

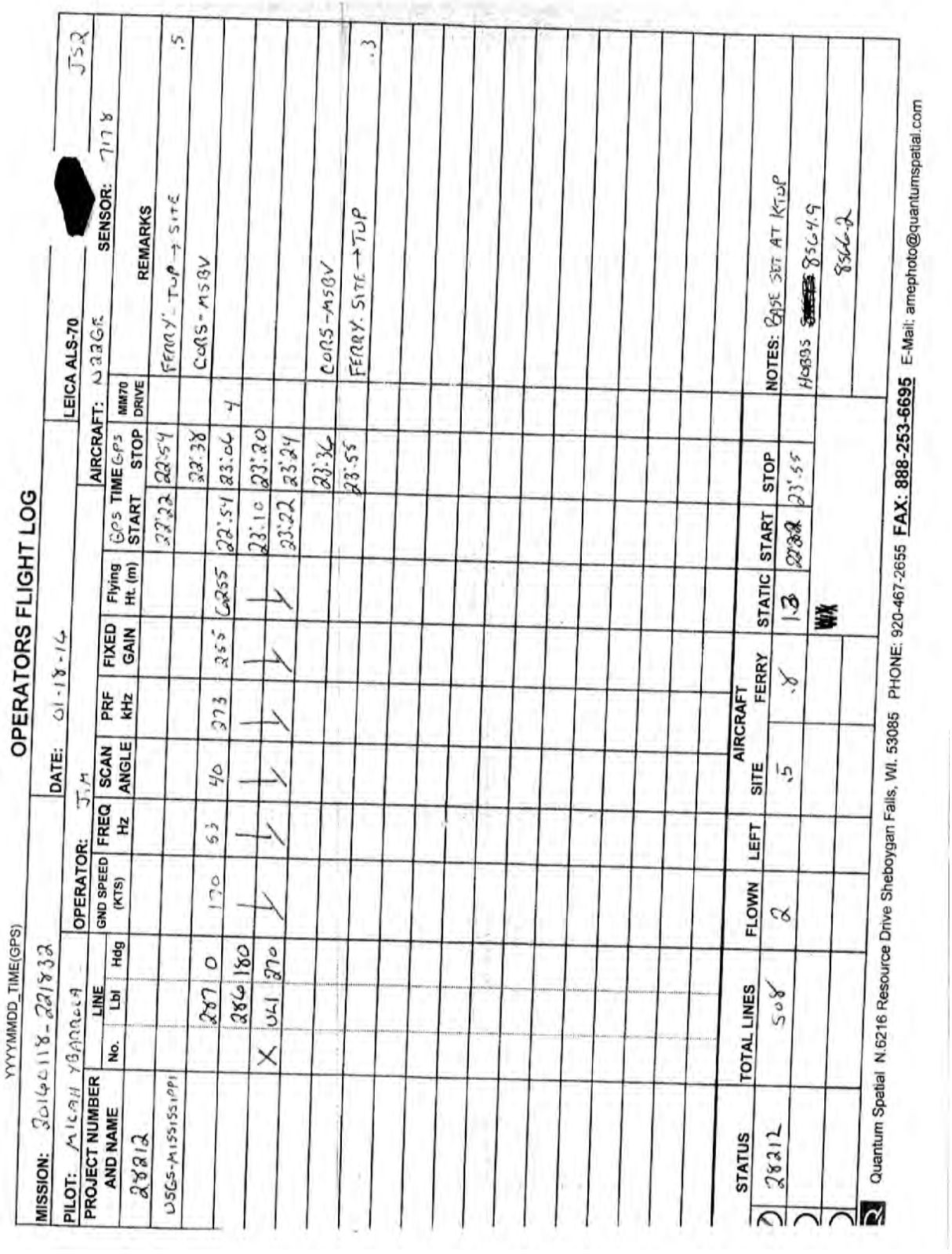

RMS (m)
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
167000
Week 1880
167500
168000
168500
169000
169500
170000
170500
171000
171500
172000
172500
173000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
167000
Week 1880
167500
168000
168500
169000
169500
170000
170500
171000
171500
172000
172500
173000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
167000
Week 1880
167500
168000
168500
169000
169500
170000
170500
171000
171500
172000
172500
173000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSBV
Name:
MSBV
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\6464\20160118_221832\Base
Coordinates
Latitude:
North
34
39
56.46132
Compute from PPP
Longitude:
West
88
33
51.48409
Enter Grid Values
Ellipsoidal height:
129.908
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM57971.00, NONE
View STA File
Antenna profile:
TRM57971.00
Info
Measured height:
0.000
m
ARP to L1 offset:
0.067
m
Applied height:
0.067
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log



OPERATORS FLIGHT LOG

YYYYMMDD_TIME(GPS)

MISSION: 20161118-221832 DATE: 01-18-16 LEICA ALS-70

PILOT: MICAH YBARRA OPERATOR: JM AIRCRAFT: N333GR SENSOR: 717 JSR

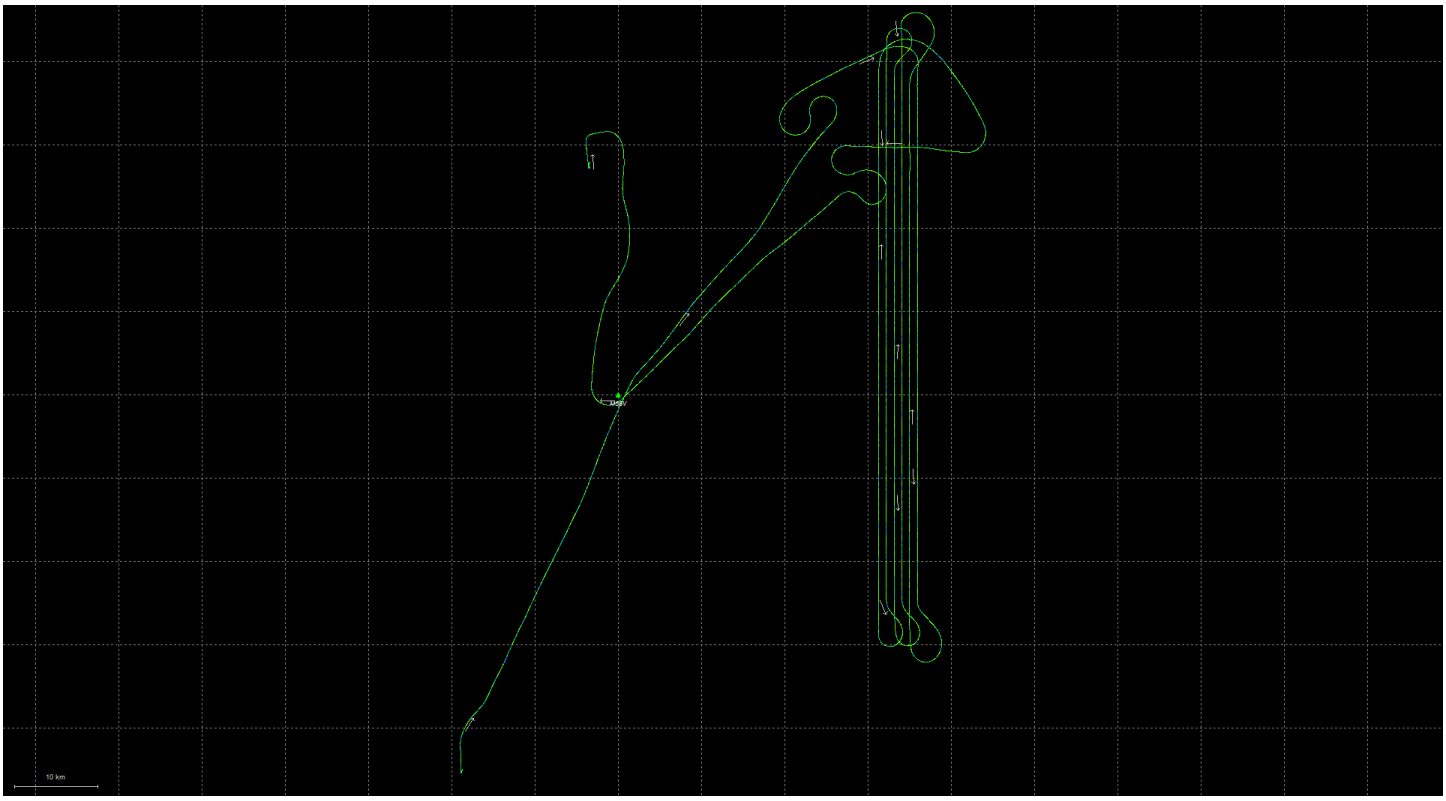
PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht (m)	GPS TIME START	GPS TIME STOP	MM70 DRIVE	REMARKS
28312										22'22	22'54		FERRY: TUP → SITE .5
USGS-MISSISSIPPI													
		287	0	170	63	45	373	355	CAGS		22'38		CORS-MSBV
		286	180		1	1	1	1	1	22'54	23'06	4	
	X	001	270	1	1	1	1	1	1	23'10	23'20		
										23'22	23'24		
													CORS-MSBV
											23'36		
											23'55		FERRY: SITE → TUP .3

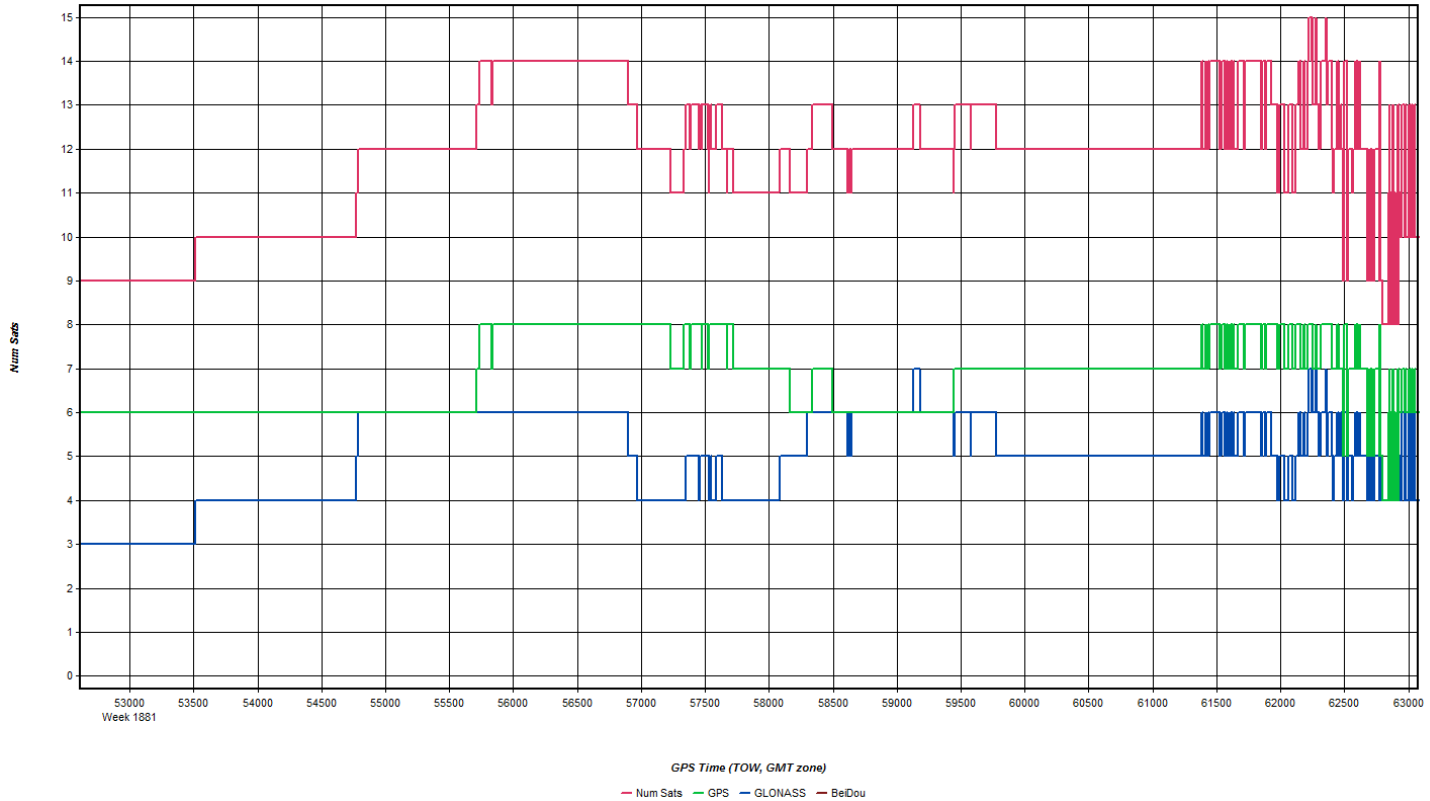
STATUS	TOTAL LINES	AIRCRAFT FLOWN	AIRCRAFT LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	
28312	508	2		5	8	13	23'38	23'55	NOTES: Base Stn AT Kiup
						WX			Hobbs 8364.9
									8366.2

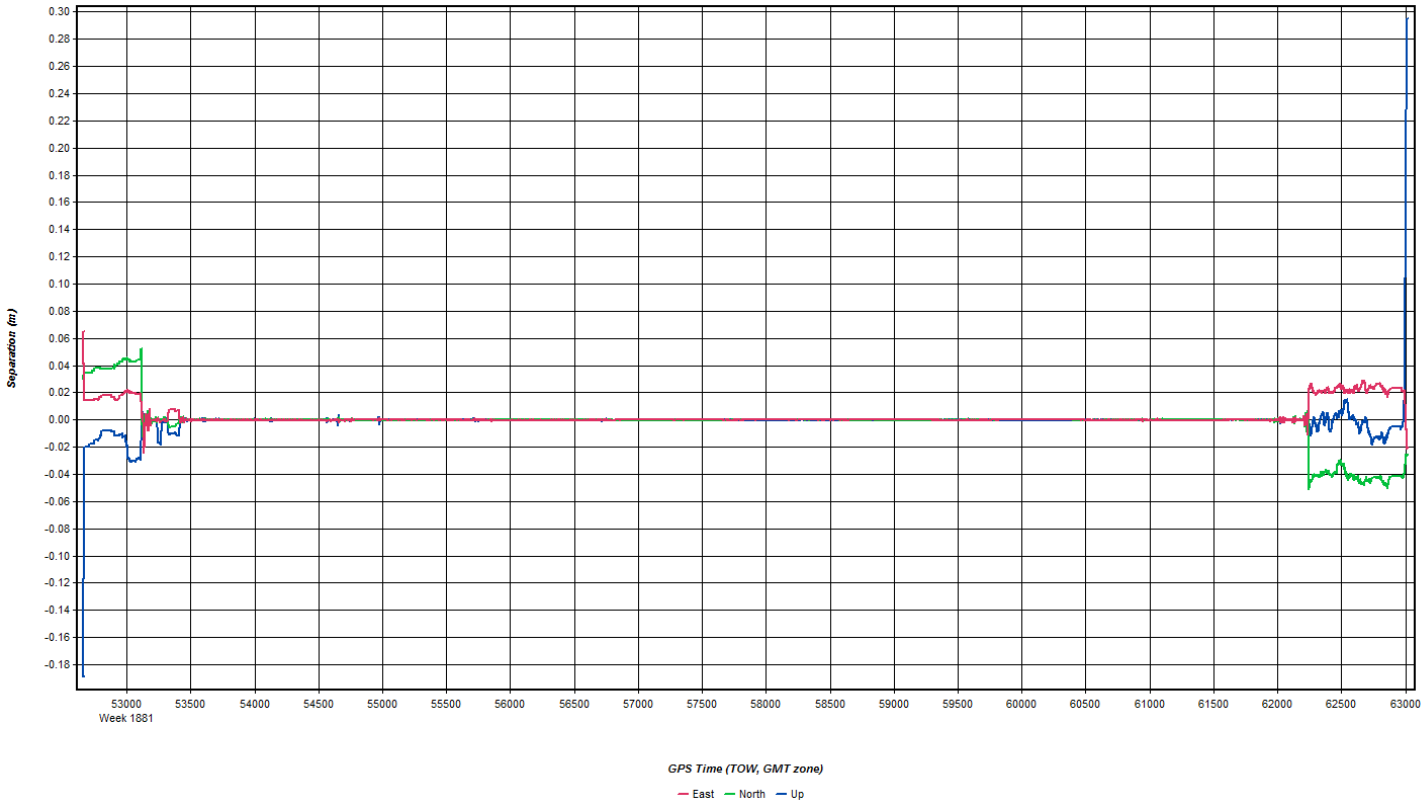
Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@quantumspatial.com

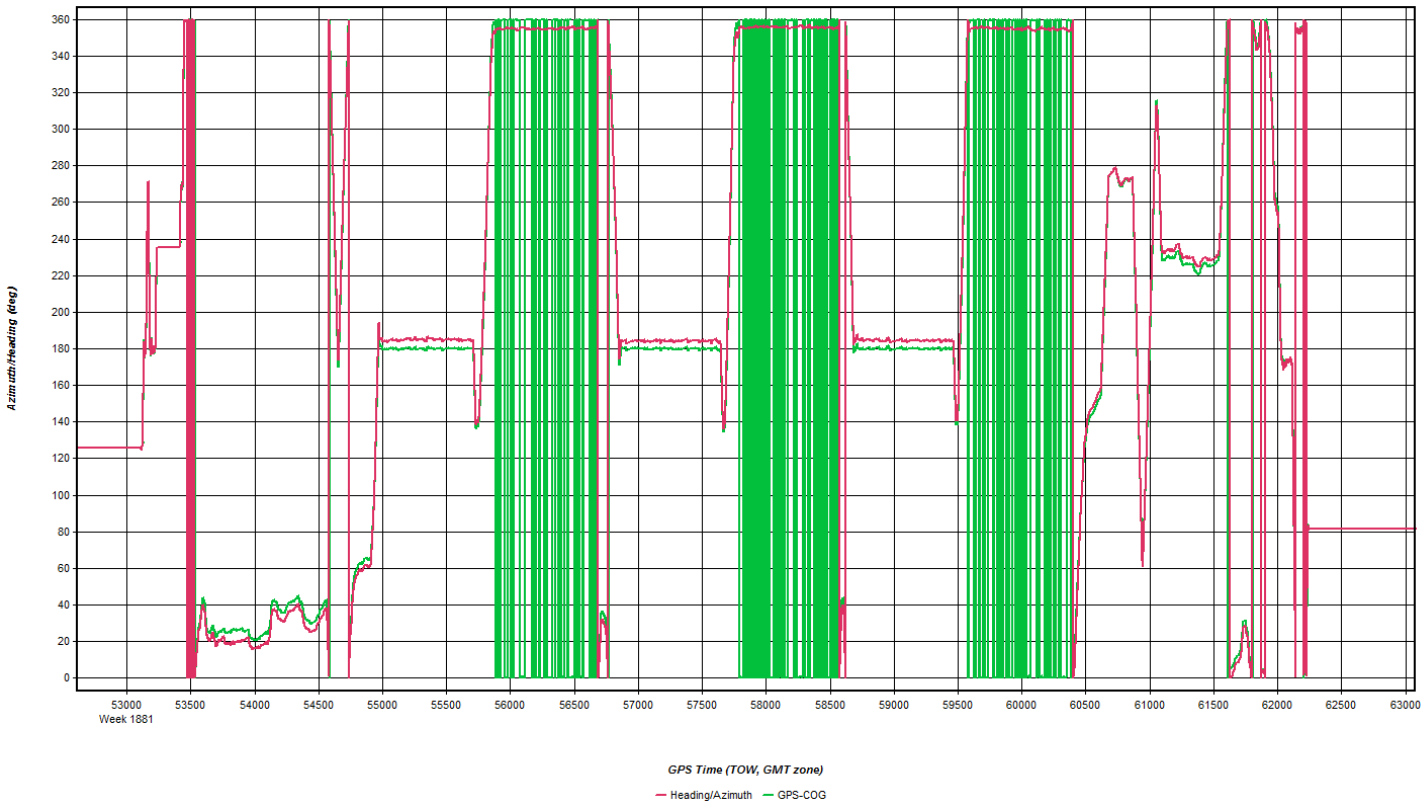
North AOI - UTM Zone 16

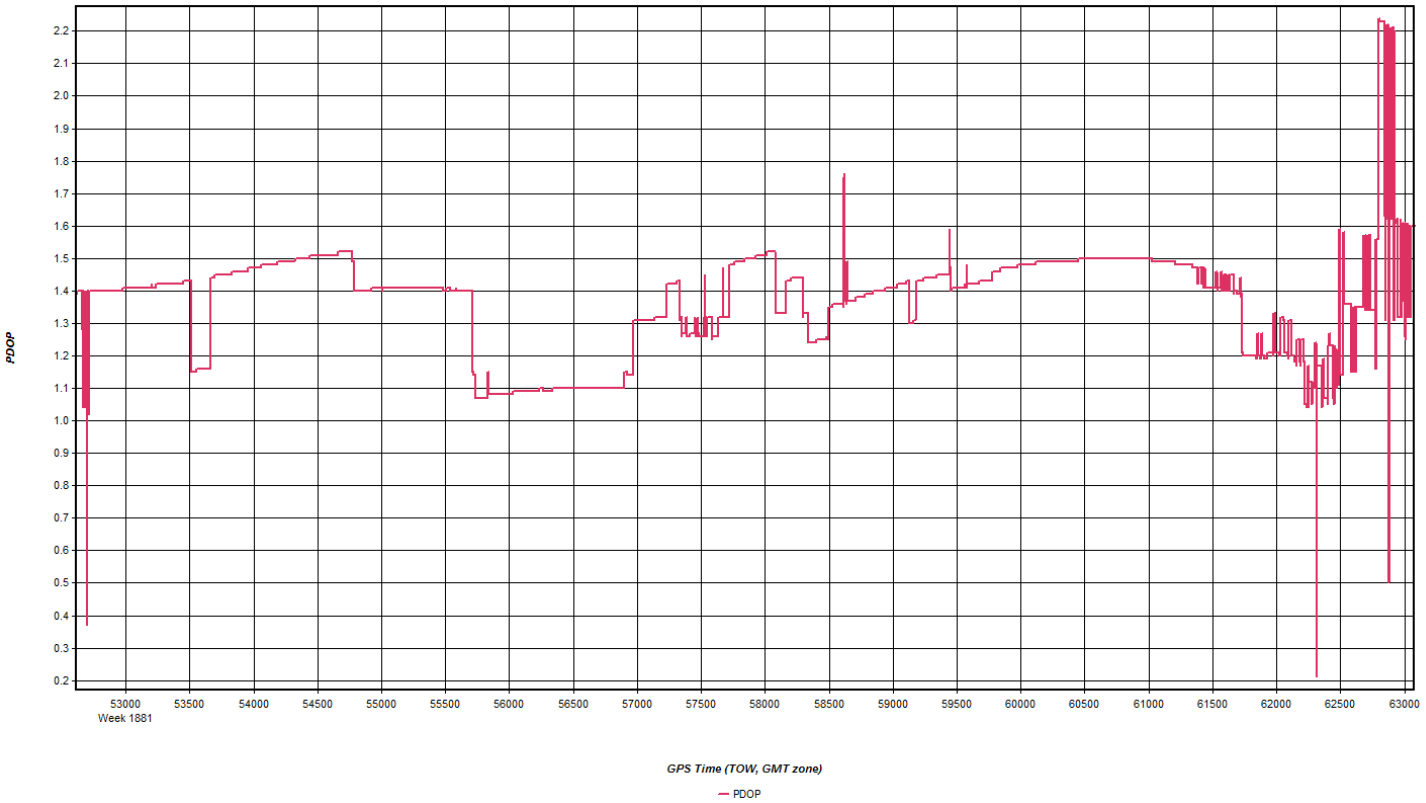
Jan 24, 2016-A (N22GE, SN7178)

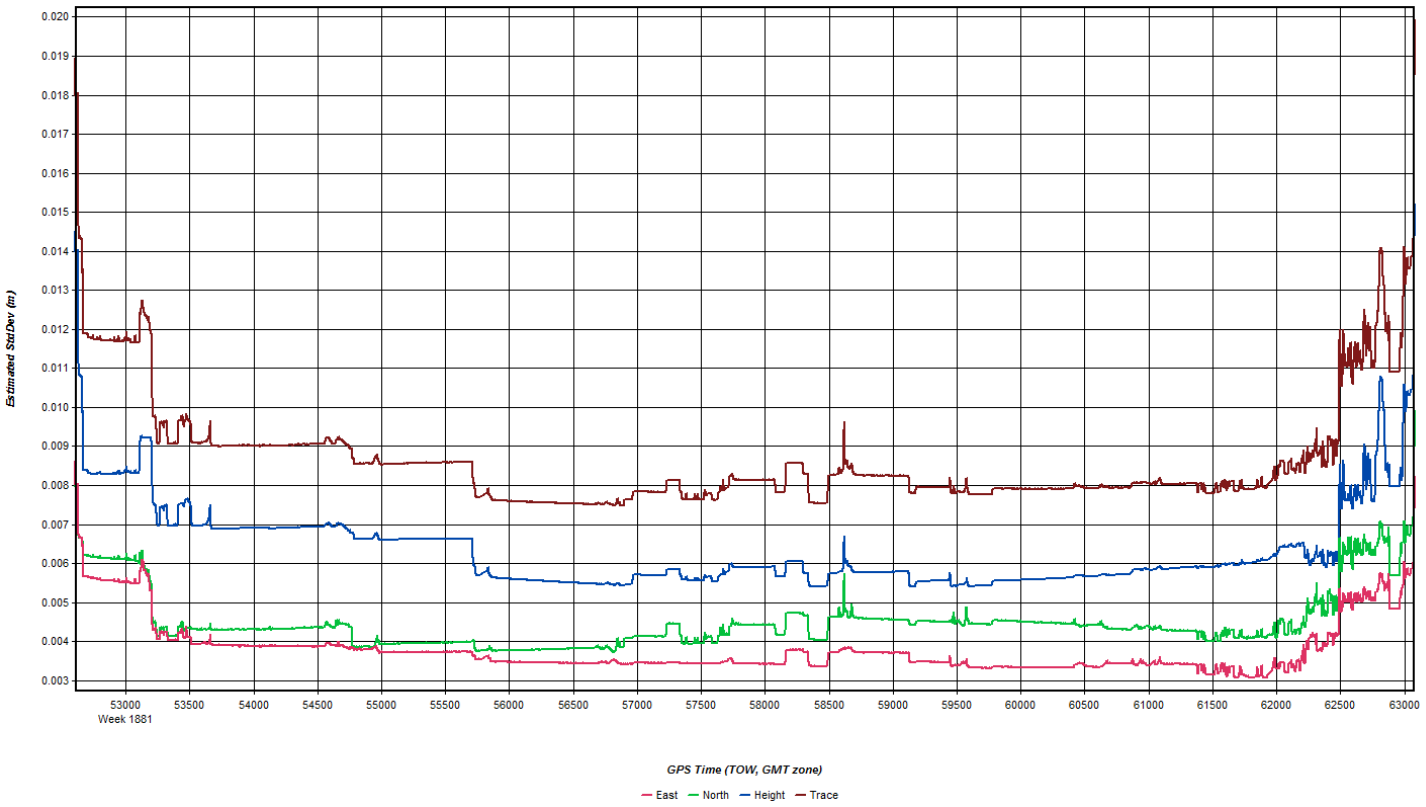

10 km

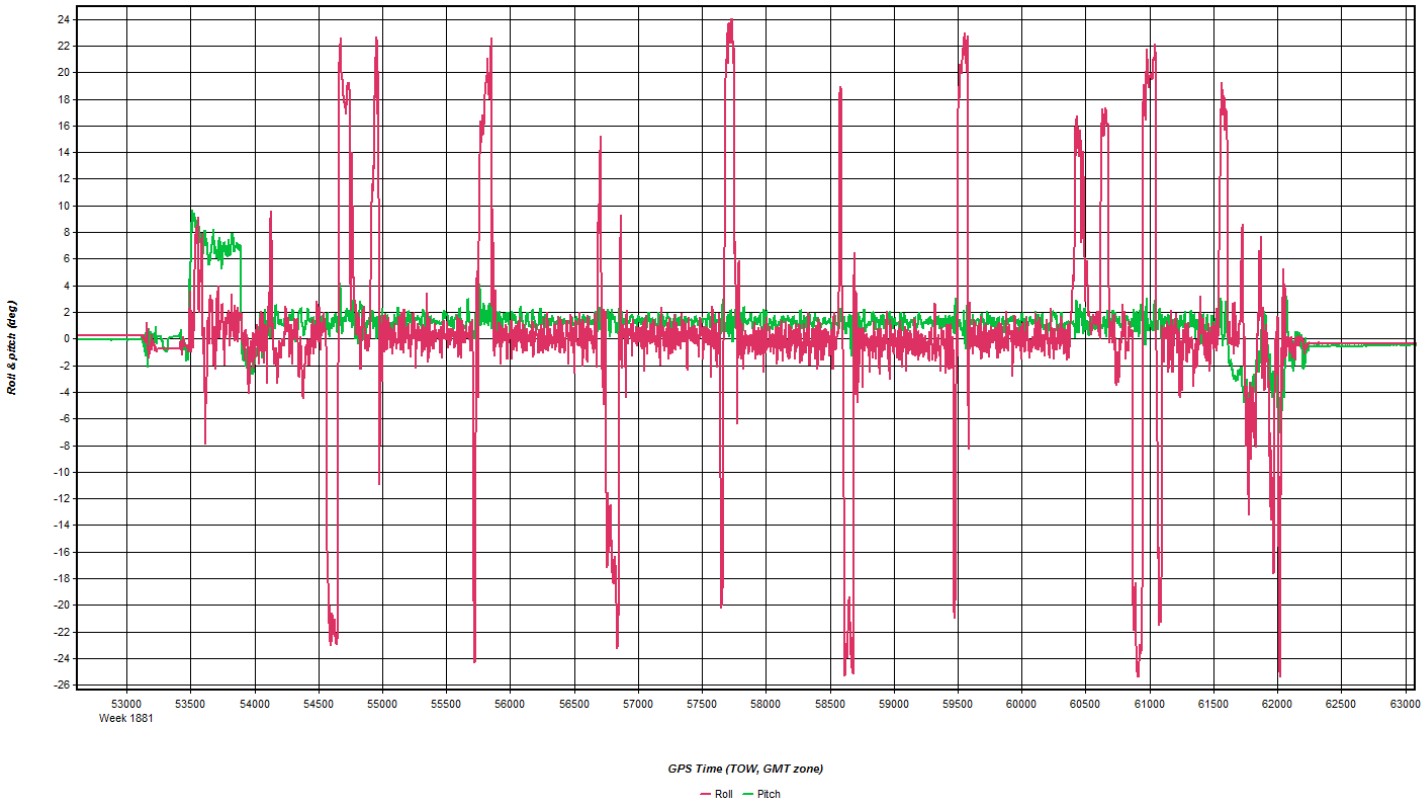

Num Sats
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
53000
Week 1881
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
63000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

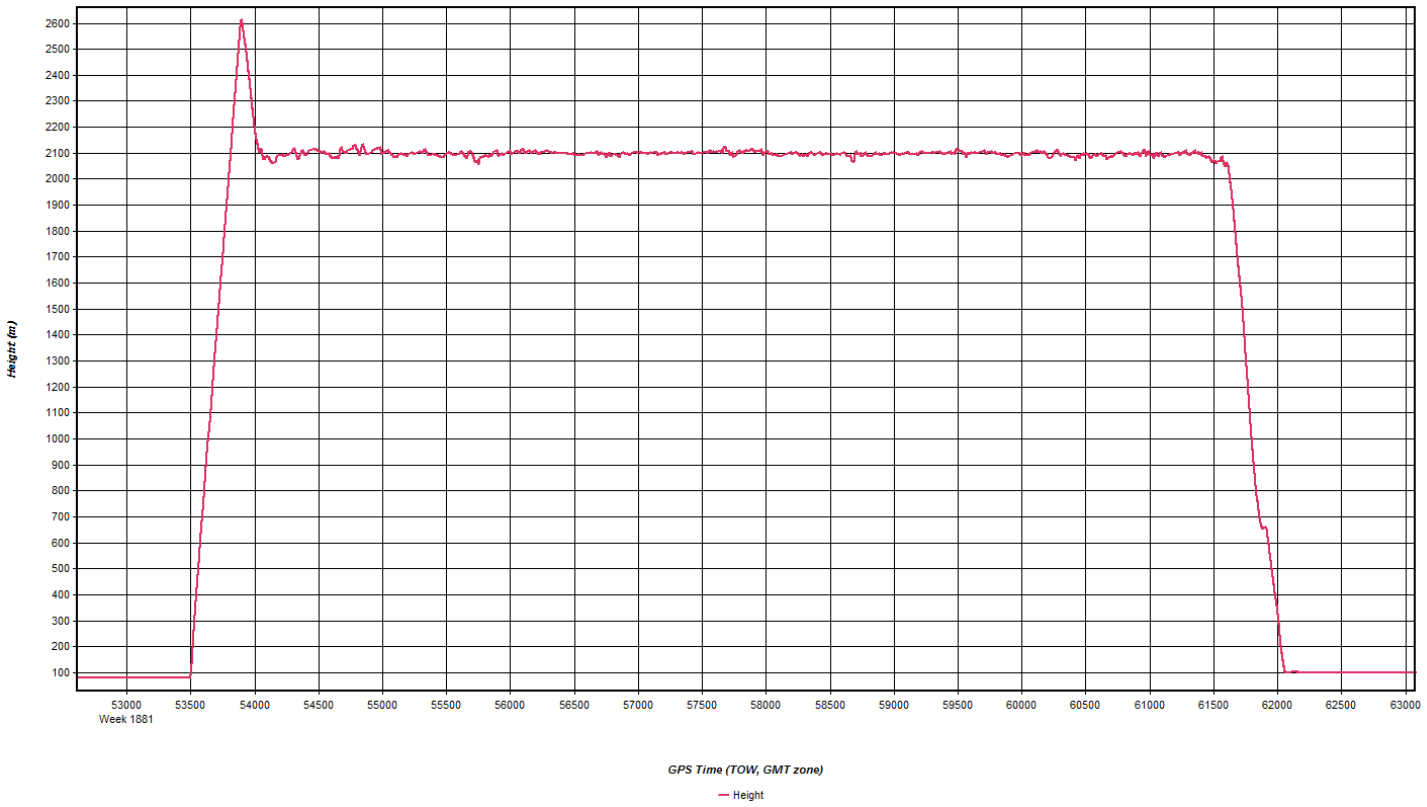

Separation (m)
0.30
0.28
0.26
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
-0.10
-0.12
-0.14
-0.16
-0.18
53000
Week 1881
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
63000
GPS Time (TOW, GMT zone)
East
North
Up

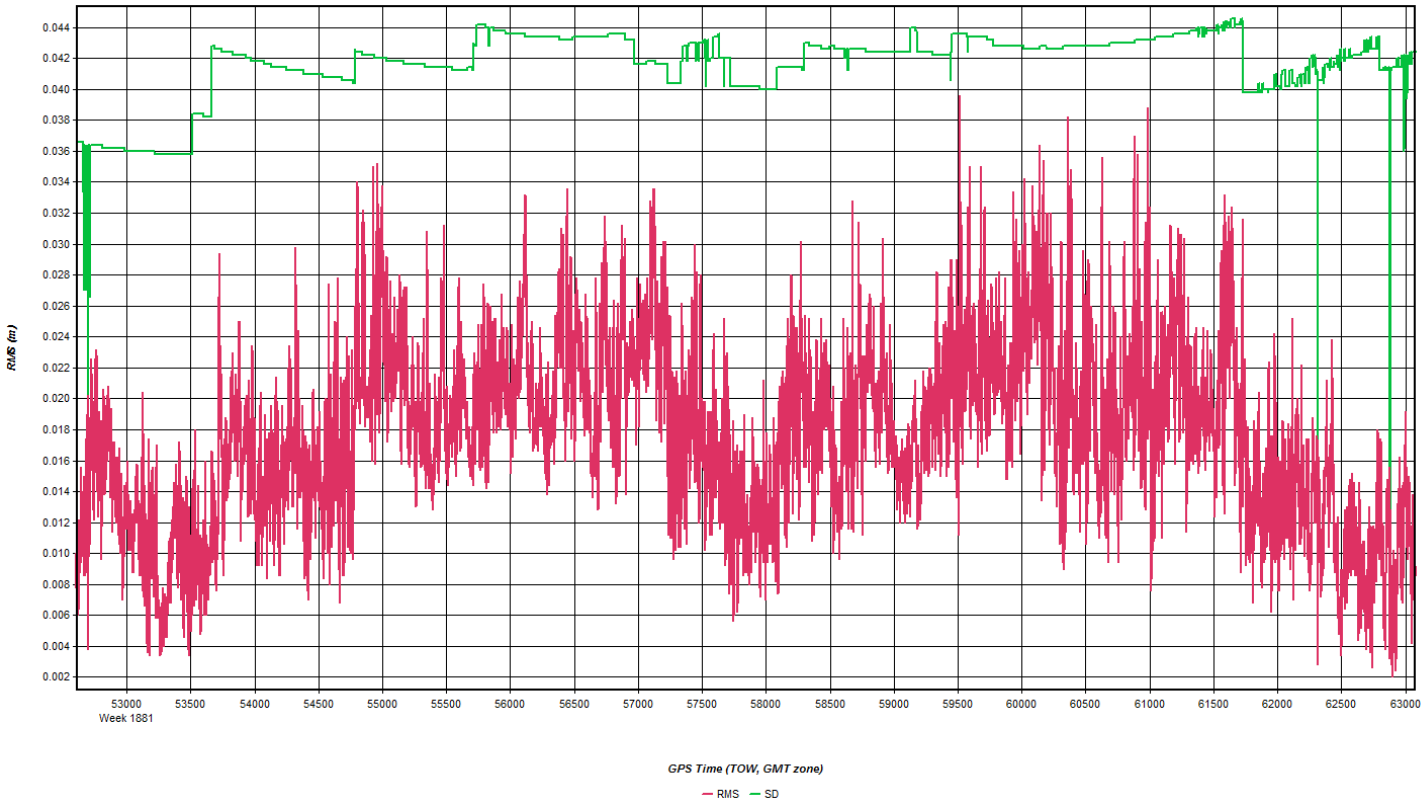

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
53000
Week 1881
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
63000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

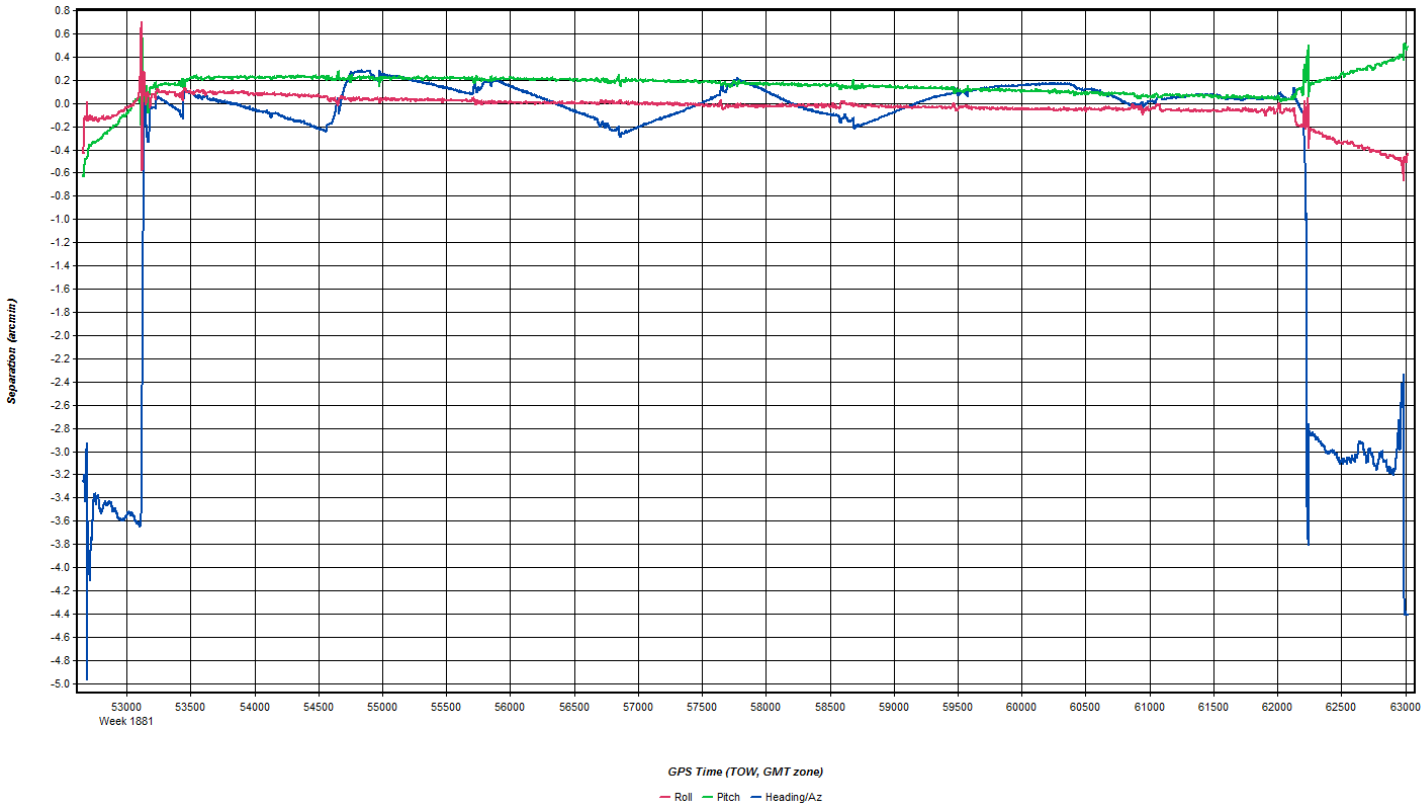

PDOP
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
53000
Week 1881
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
63000
GPS Time (TOW, GMT zone)
PDOP

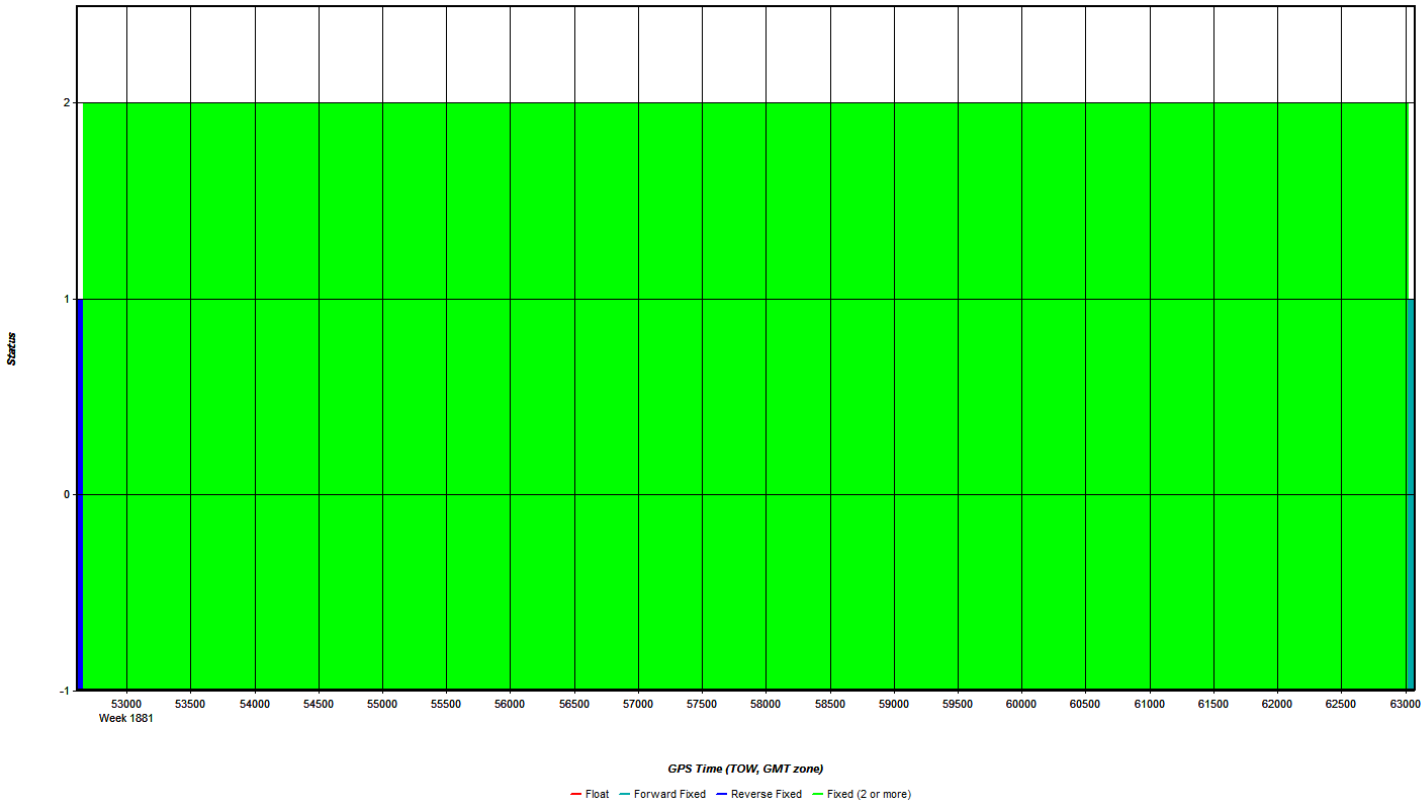

Estimated StdDev (m)
0.020
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.010
0.009
0.008
0.007
0.006
0.005
0.004
0.003
53000
Week 1881
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
63000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

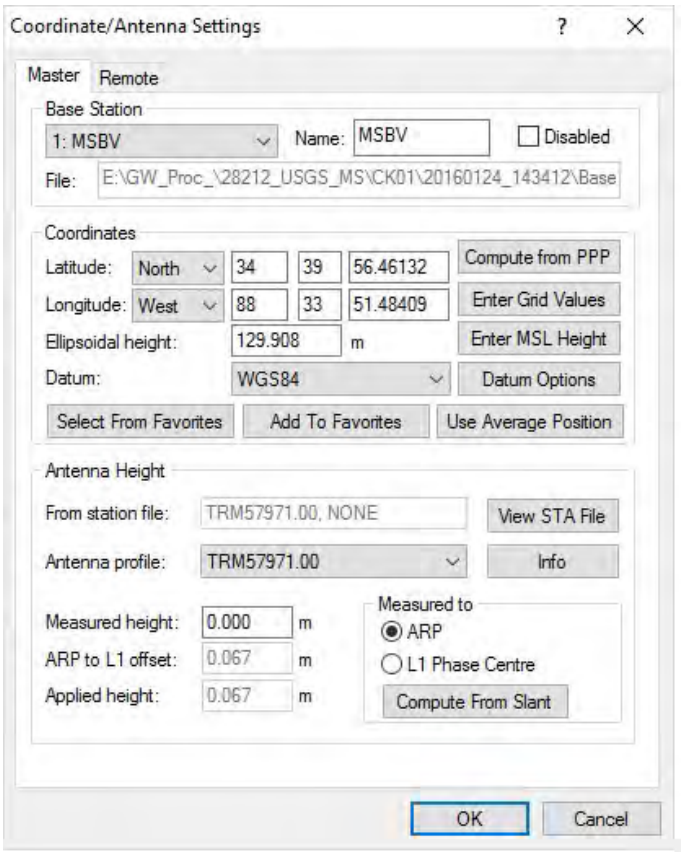

Roll & pitch (deg)
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
53000
Week 1881
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
63000
GPS Time (TOW, GMT zone)
Roll
Pitch


Height (m)
2600
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
53000
Week 1881
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
63000
GPS Time (TOW, GMT zone)
Height


RMS (m)
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
53000
Week 1881
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
63000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
0.8
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
-1.4
-1.6
-1.8
-2.0
-2.2
-2.4
-2.6
-2.8
-3.0
-3.2
-3.4
-3.6
-3.8
-4.0
-4.2
-4.4
-4.6
-4.8
-5.0
53000
Week 1881
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
63000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
53000
Week 1881
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
63000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSBV
Name:
MSBV
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\CK01\20160124_143412\Base
Coordinates
Latitude:
North
34
39
56.46132
Compute from PPP
Longitude:
West
88
33
51.48409
Enter Grid Values
Ellipsoidal height:
129.908
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM57971.00, NONE
View STA File
Antenna profile:
TRM57971.00
Info
Measured height:
0.000
m
ARP to L1 offset:
0.067
m
Applied height:
0.067
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log

OPERATORS FLIGHT LOG

YYYYMMDD_TIME(GPS)

MISSION: 20160124-143412 DATE: 01-24-16 LEICA ALS-70 TSI

PILOT: Bill Smelser OPERATOR: Jim Schoone AIRCRAFT: N 2266 SENSOR: 7118

PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	GPS TIME START	GPS TIME STOP	MM70 DRIVE	REMARKS
28312										14:36	15:16		FERRY: TUP → SITE .7
USGS-Mississippi											15:01		CORS - MSBV
		285	180	170	53	40	373	255	6230	15:16	15:27	4	
		284	0						6230	15:32	15:44		
		283	180						6282	15:48	16:00		
		282	0						6280	16:03	16:15		
	5	281	180						6243	16:18	16:30		
		280	0						6234	16:33	16:46		
	X	281	376						6234	16:51	16:54		
											17:05		CORS - MSBV
											17:22		FERRY: SITE → CRX .2

STATUS	TOTAL LINES	FLOWN	AIRCRAFT LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP
⊘ 28312	508	6		1.6	.9	2.7	14:36	17:22
○						WX SKC		
○								

NOTES: BASE SET AT KTUP
Hobbs 857.3
857.7

Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@quantumspatial.com

Base Station Log

GPS OBSERVATION LOG

CAROL CONE AZ
MK 2
PID EG1946

Station ID	
Project Number	28212
Project Name	USGS MS.
Rcvr. Type	Novatel DL-V3-L1L2
Rcvr. S/N	7-0141418
Antenna Type	Novatel
Antenna S/N	NAE12110035
Mission	20160124_143412 20160124_181443

Date	01 / 24 / 2016
Julian Date	024
Start Time	13 : 37: : GPS
Stop Time	22 : 35: : GPS
Rcvr. File Name	00080240.PDC
Observer	J. SCHOONE

New or Existing Mon. ☒ New ☐ Existing

Photo Taken: ☒ Yes ☐ No

STANDARD DISK
SET IN TOP OF A ROUND
CONCRETE POST, FLUSH
WITH THE Ground

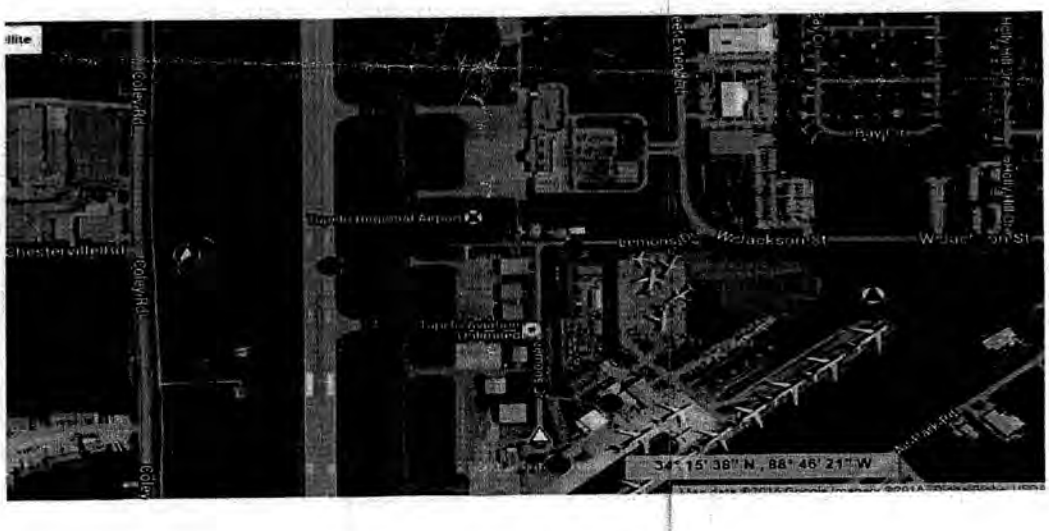
Monument Type: _____

Spike ☐ PK Nail ☐ AM Washer ☐

Other _____

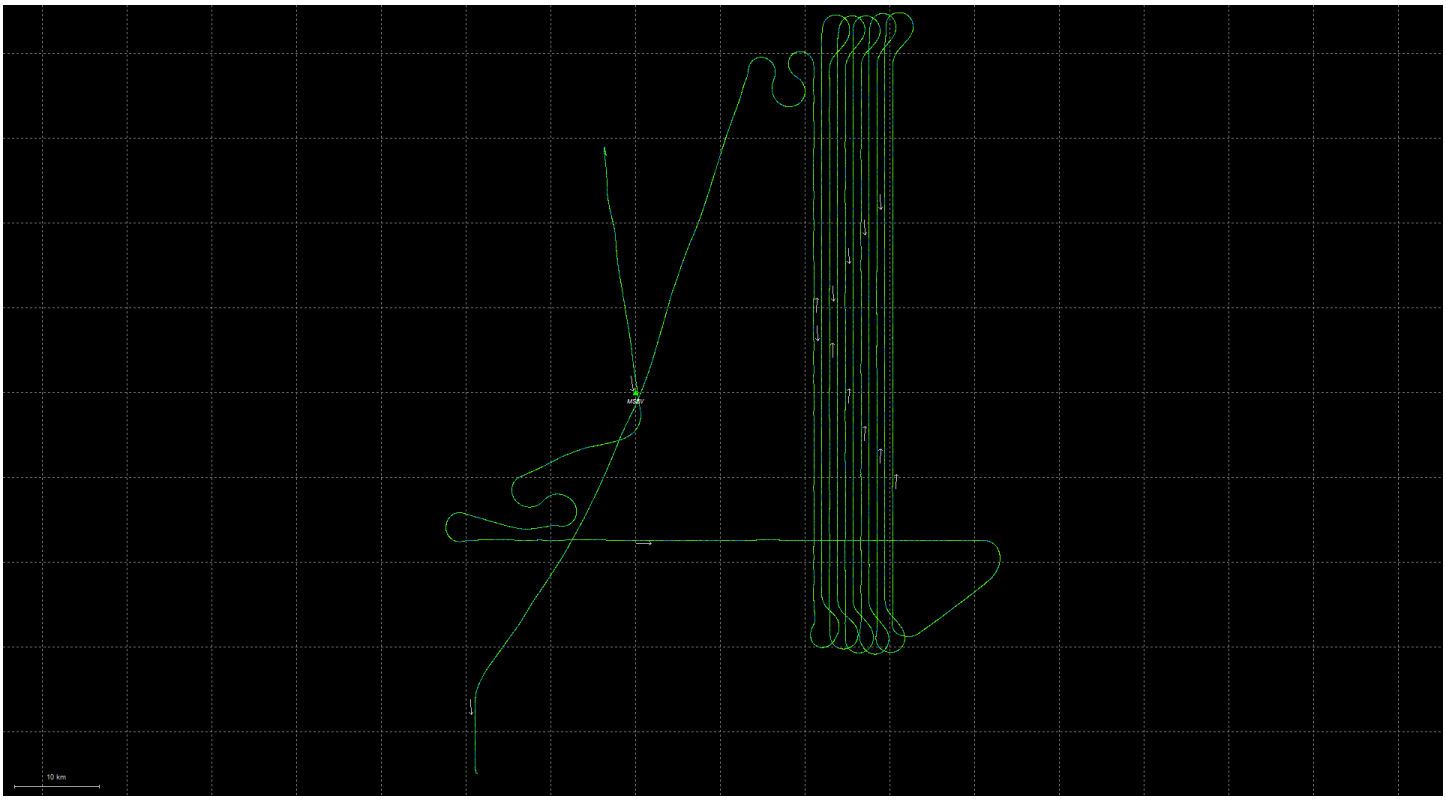
Height Readings:
(Top of Monument to Bottom of Ground Plane)

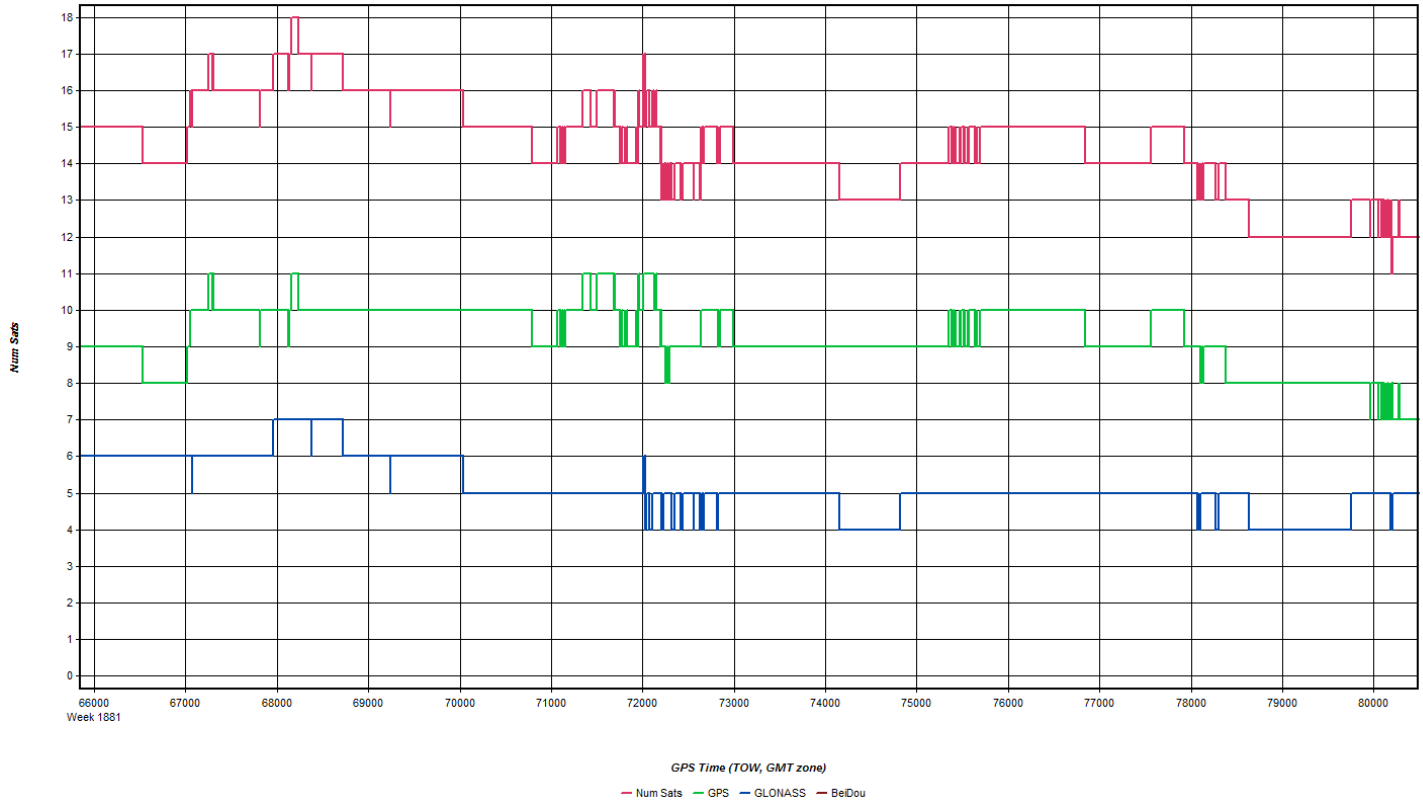
Start	2.0	M.		Ft.
Stop	2.0	M.		Ft.
Mean	2.0	M.		Ft.

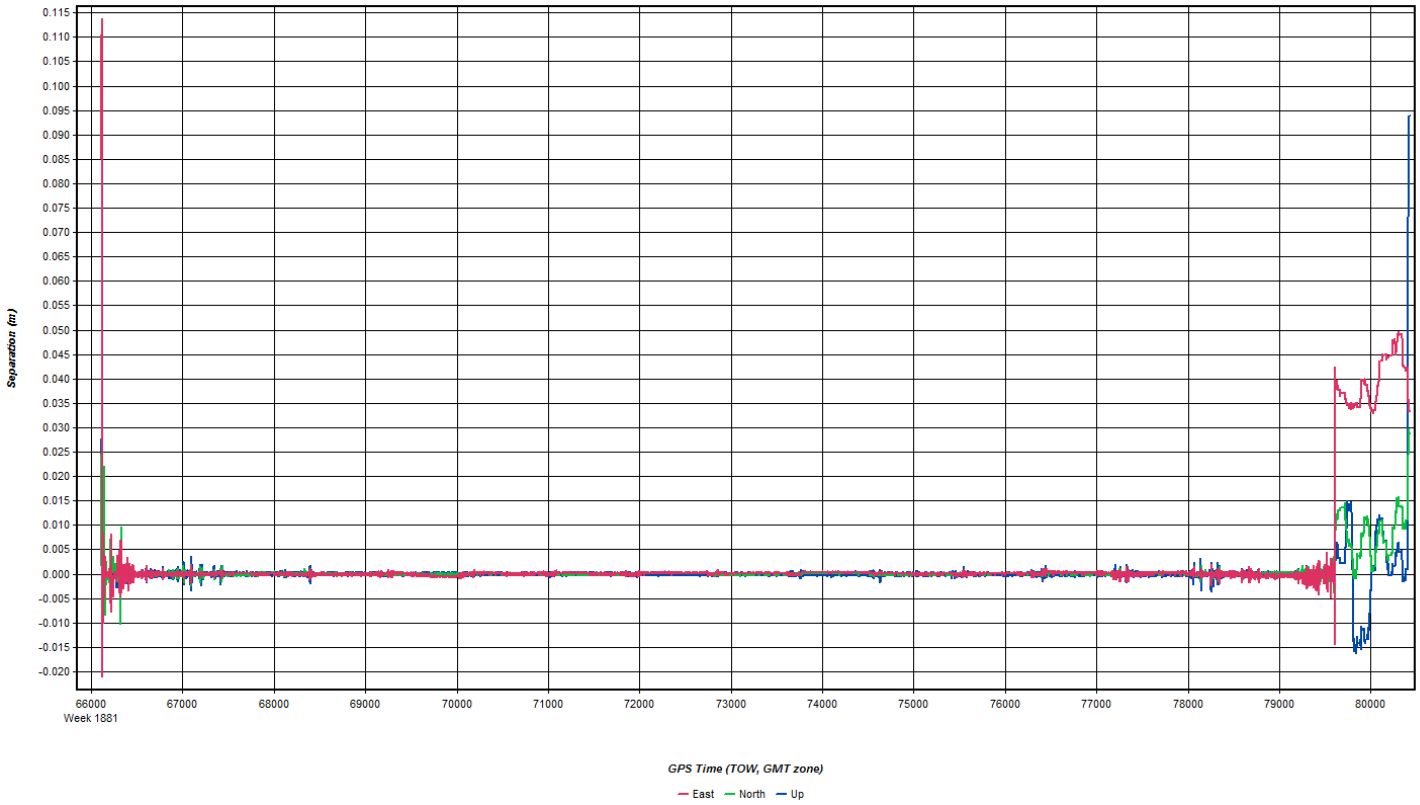


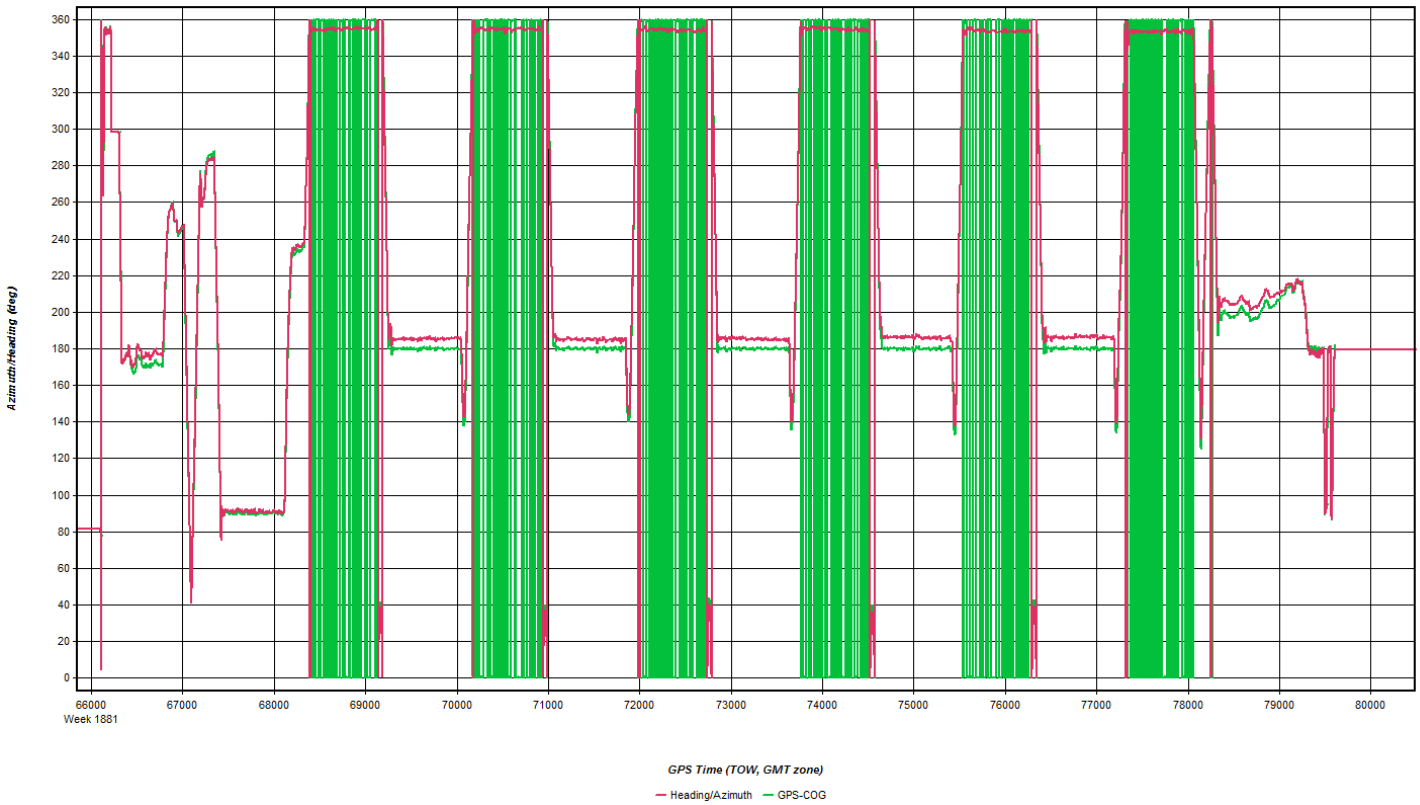
North AOI - UTM Zone 16

Jan 24, 2016-B (N22GE, SN7178)

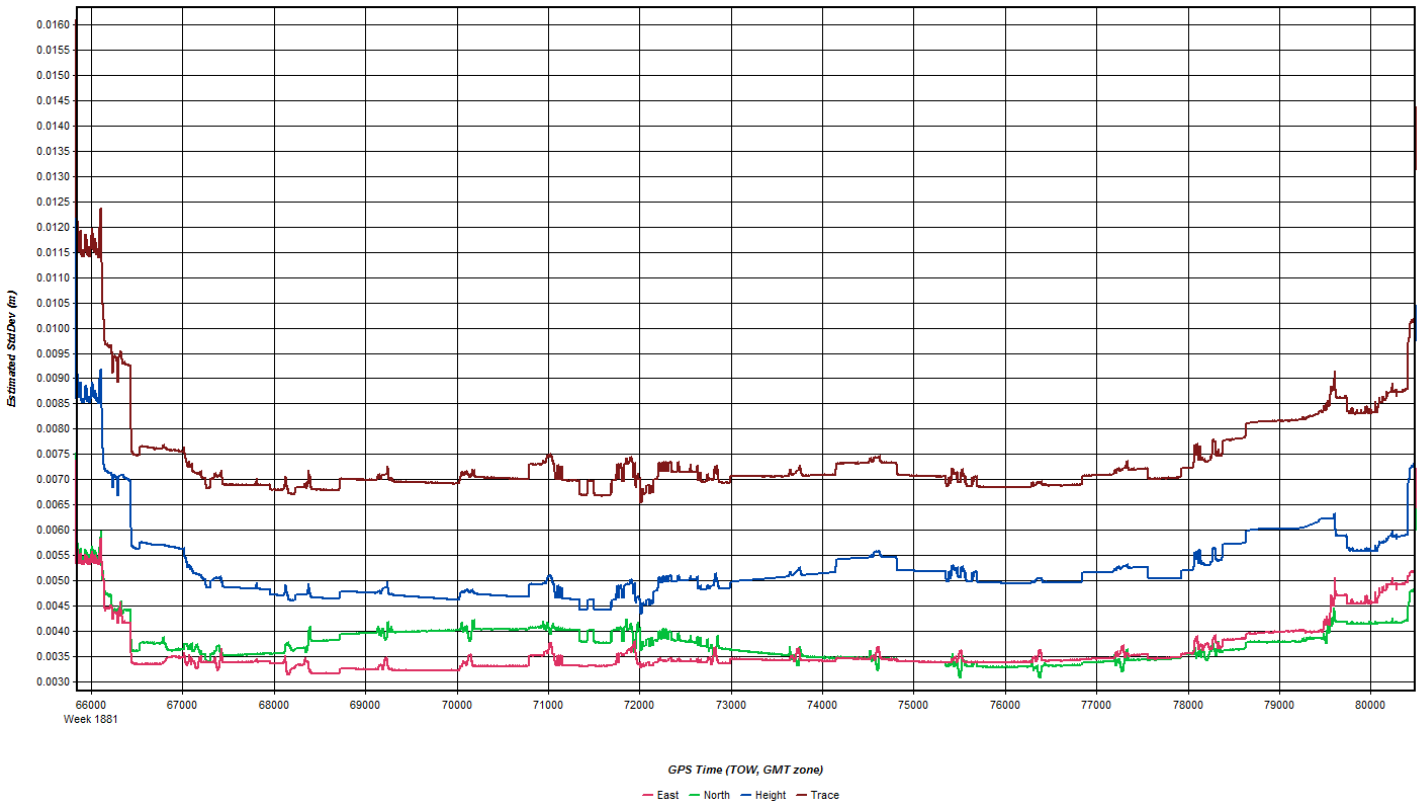

10 km

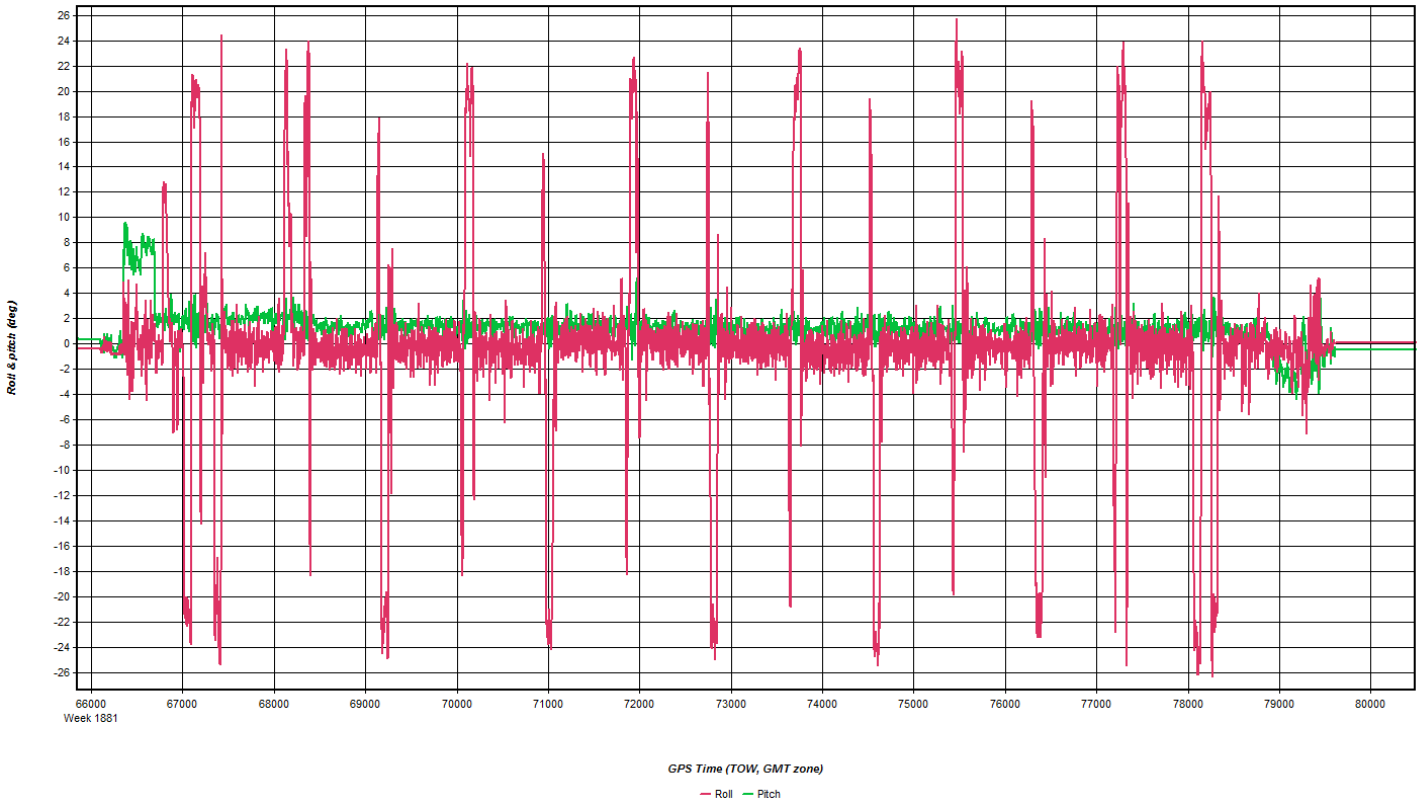

Num Sats
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
66000
Week 1881
67000
68000
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

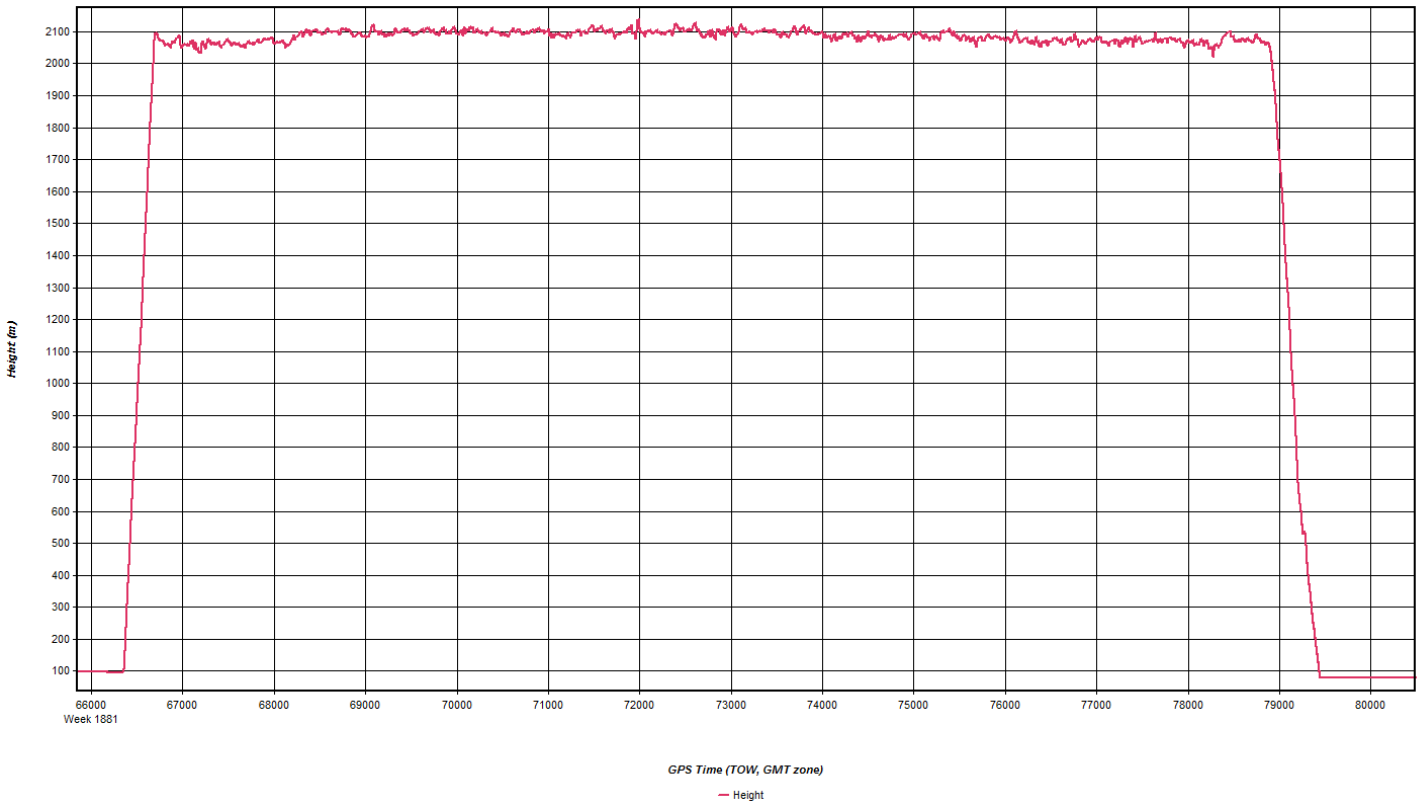

Separation (m)
0.115
0.110
0.105
0.100
0.095
0.090
0.085
0.080
0.075
0.070
0.065
0.060
0.055
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
-0.010
-0.015
-0.020
66000
Week 1881
67000
68000
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
GPS Time (TOW, GMT zone)
East
North
Up

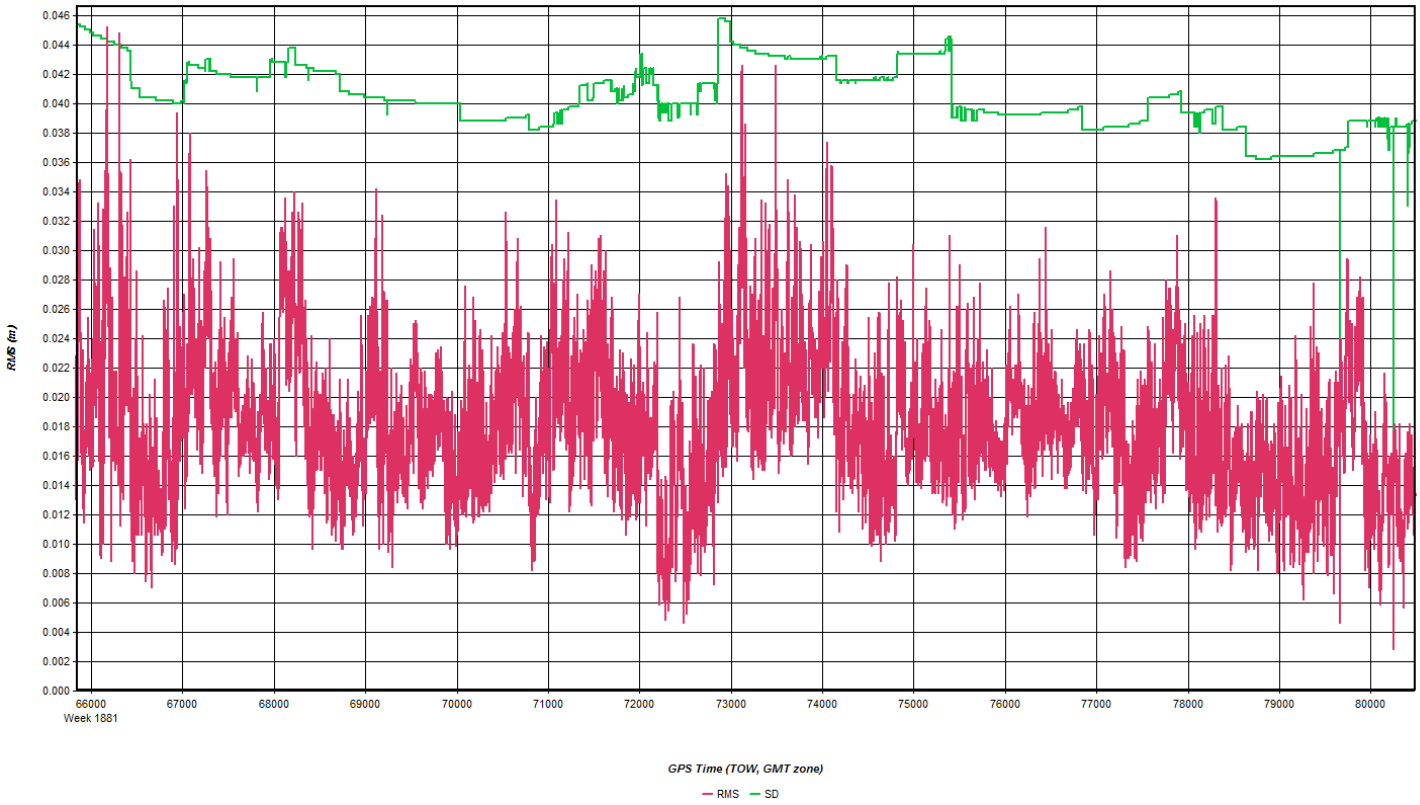

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
66000
Week 1881
67000
68000
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

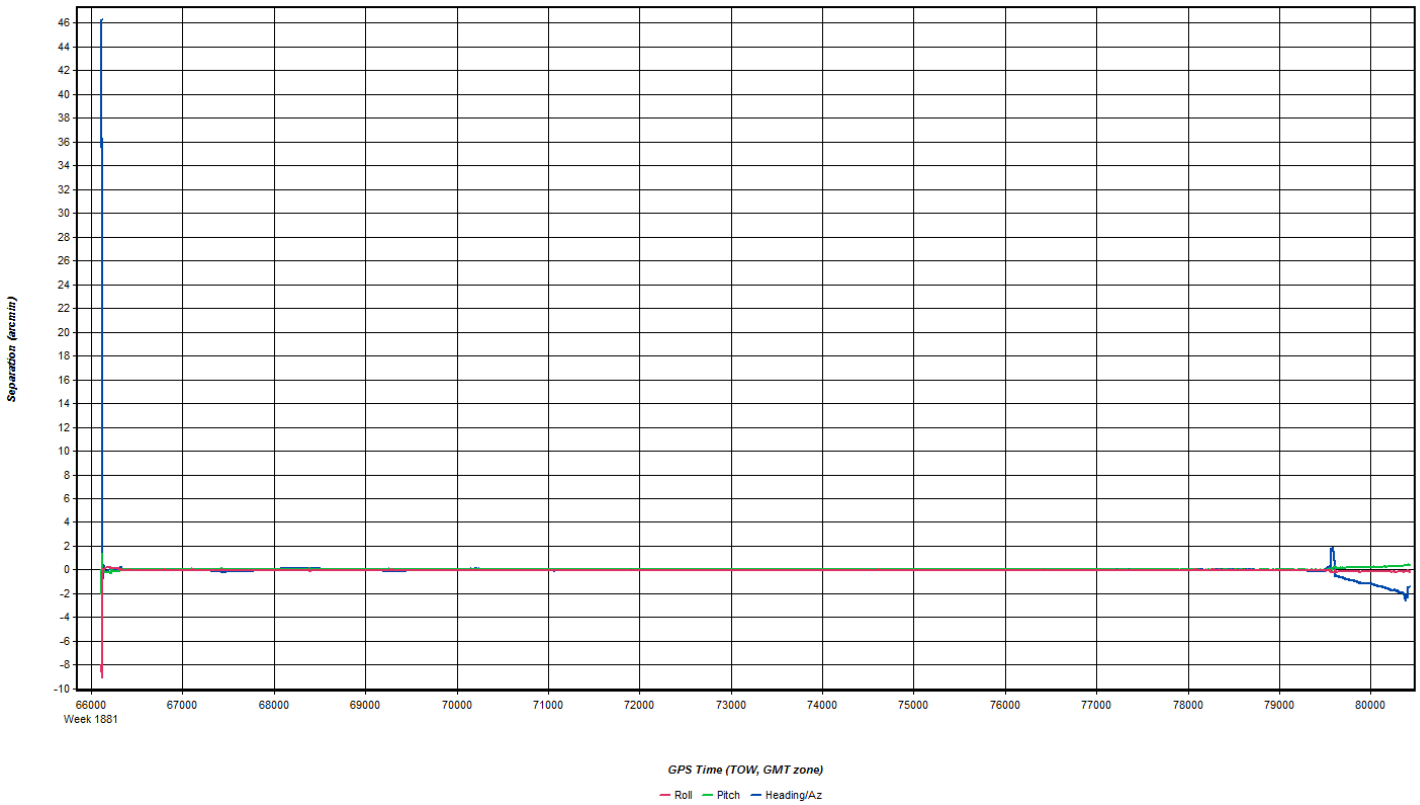

PDOP
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.55
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
66000
Week 1881
67000
68000
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
GPS Time (TOW, GMT zone)
PDOP

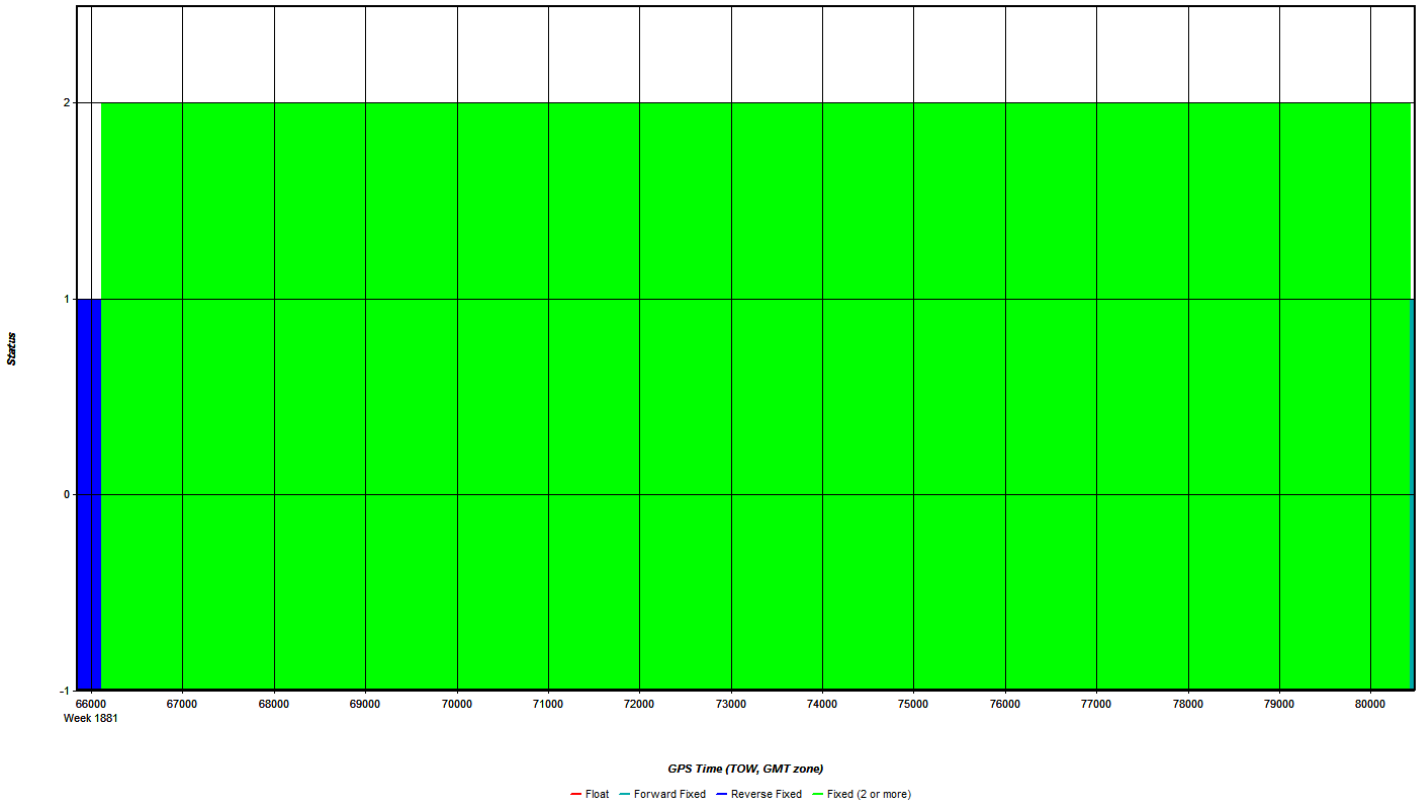

Estimated StdDev (m)
0.0160
0.0155
0.0150
0.0145
0.0140
0.0135
0.0130
0.0125
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
66000
Week 1881
67000
68000
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

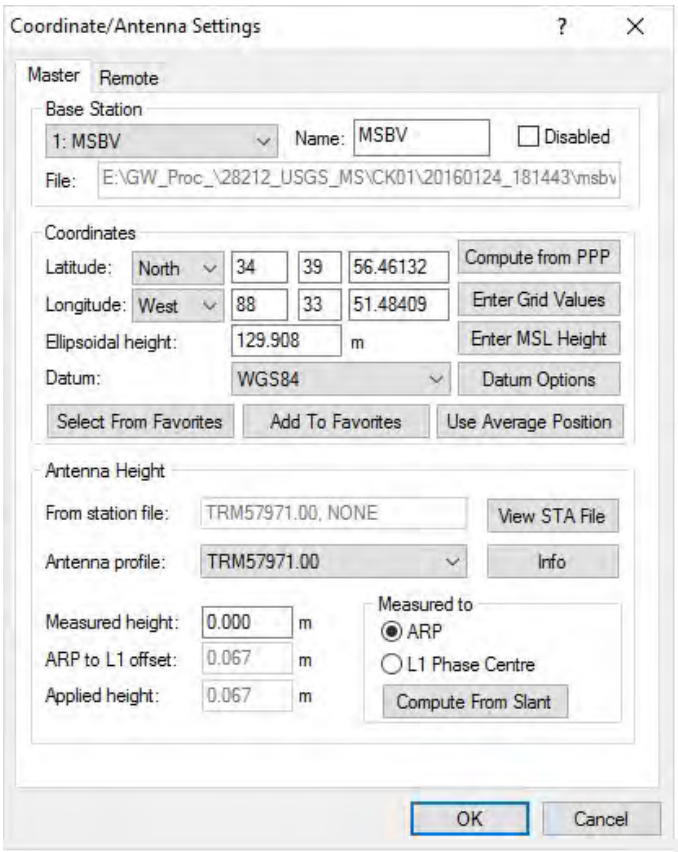

Roll & pitch (deg)
26
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
66000
Week 1881
67000
68000
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
GPS Time (TOW, GMT zone)
Roll
Pitch


Height (m)
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
66000
Week 1881
67000
68000
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
GPS Time (TOW, GMT zone)
Height


RMS (m)
0.046
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
66000
Week 1881
67000
68000
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
46
44
42
40
38
36
34
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
66000
Week 1881
67000
68000
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
66000
Week 1881
67000
68000
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
80000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSBV
Name:
MSBV
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\CK01\20160124_181443\msbv
Coordinates
Latitude:
North
34
39
56.46132
Compute from PPP
Longitude:
West
88
33
51.48409
Enter Grid Values
Ellipsoidal height:
129.908
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM57971.00, NONE
View STA File
Antenna profile:
TRM57971.00
Info
Measured height:
0.000
m
ARP to L1 offset:
0.067
m
Applied height:
0.067
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log

OPERATORS FLIGHT LOG

YYYYMMDD_TIME(GPS)

MISSION: 20160124-181443 DATE: 01-24-16 LEICA ALS-70 JS2

PILOT: Bill SMELSER OPERATOR: Jim SCHOONE AIRCRAFT: N2965 SENSOR: 7178

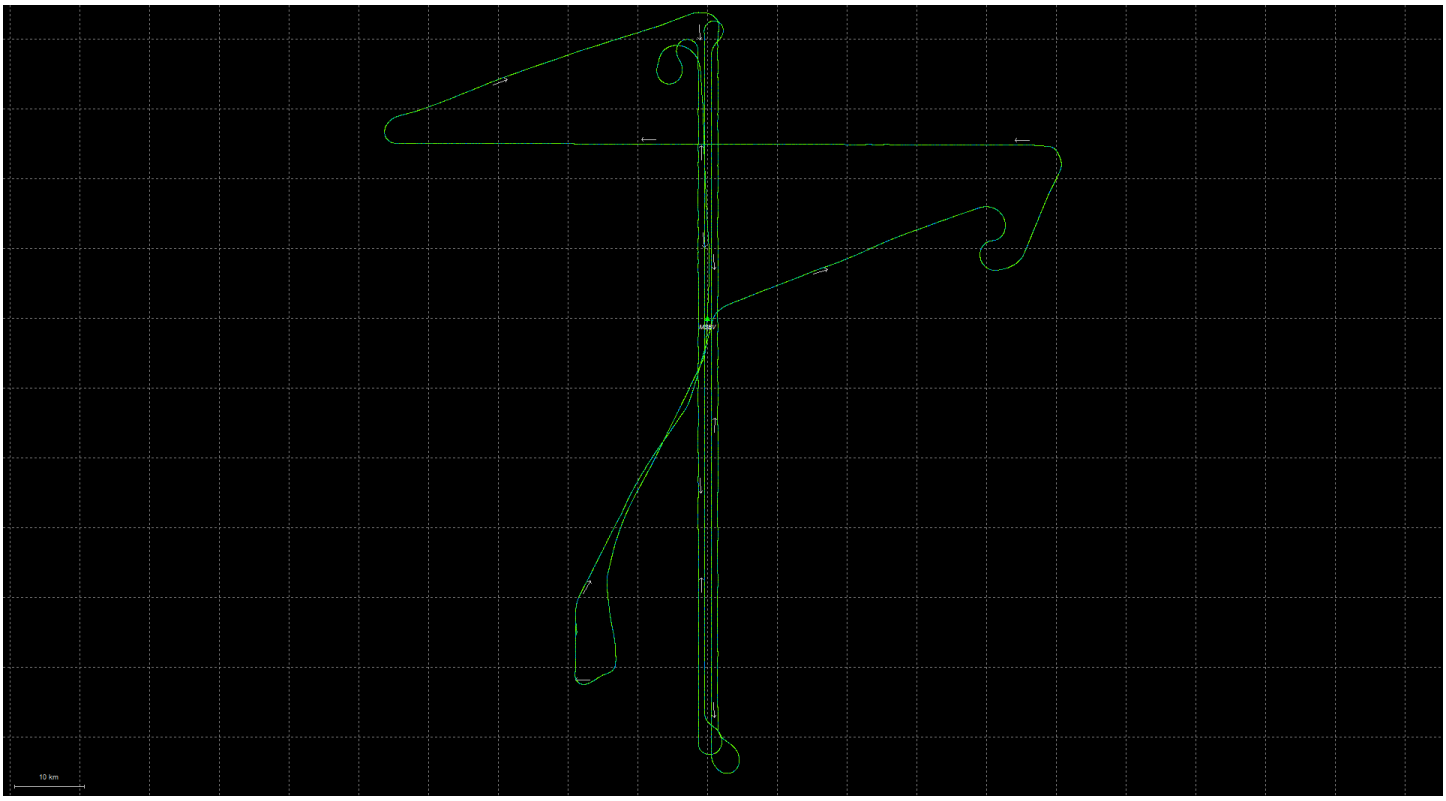
PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	GPS TIME START	GPS TIME STOP	MM70 DRIVE	REMARKS
28212										18:17	18:44		FERRY: CRX → SITE
USGS-MISSISSIPPI											18:32		CORS - MSBV
	997	90		170	53	40	273	255	6175	18:44	18:54	4	
	279	0						1	6142	18:59	19:11		
	278	180							6138	19:15	19:27		
	277	0							6214	19:30	19:41		
	5 276	180							6207	19:45	19:57		
	275	0							6207	19:59	20:11		
	274	180							6171	20:14	20:26		
	273	0							6161	20:30	20:41		
	272	180							6191	20:44	20:56		
	10 271	0							6168	20:59	21:11		
	270	180							6181	21:14	21:26		
	269	0		1	1	1	1	1	6184	21:29	21:40	1	
											21:53		CORS-MSBV
											22:11		FERRY: SITE → TUP

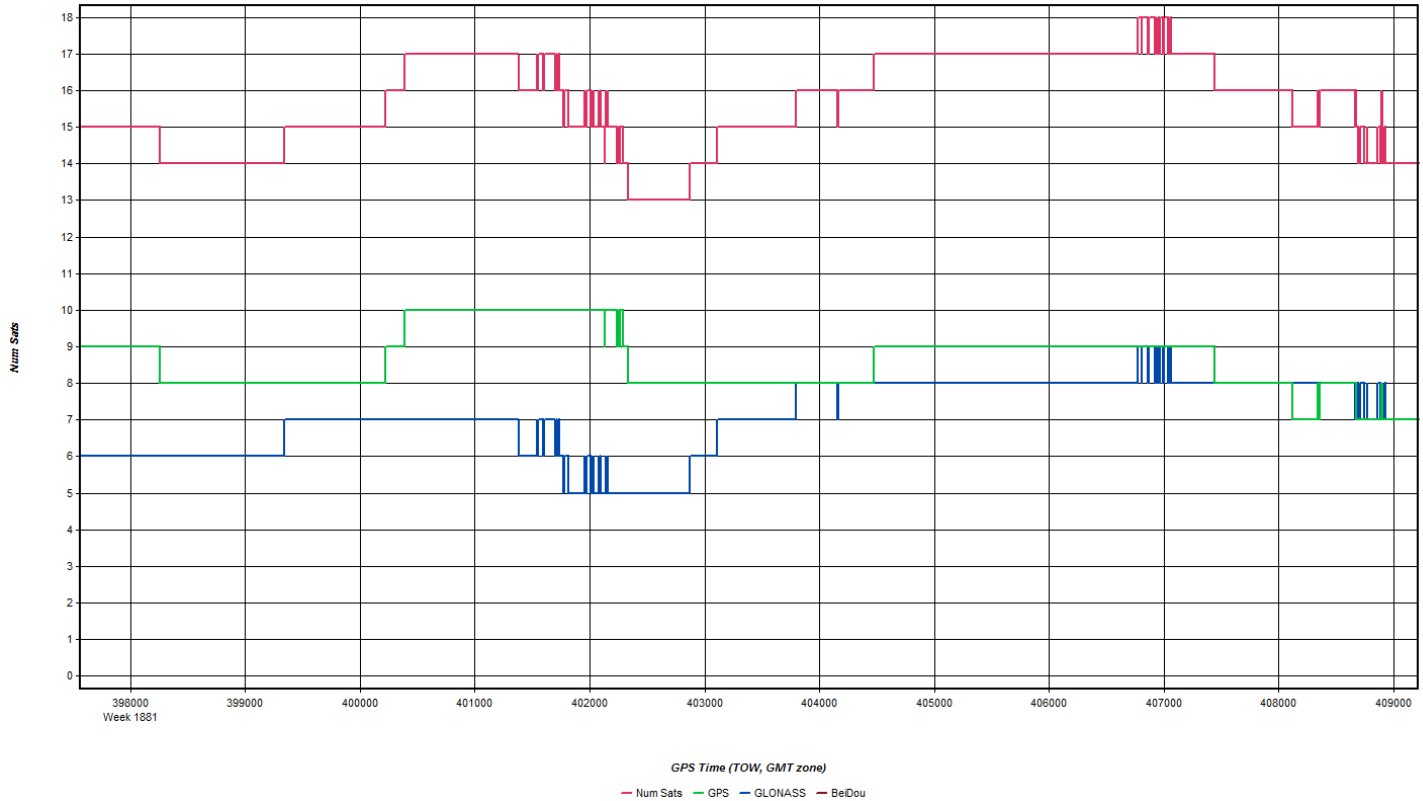
STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	NOTES: BASE SET AT KTUP
28212	508	12		3.0	1	3.9	18:17	22:11	HOGGS 9573.7
						HIGH CIRRUS			8577.4

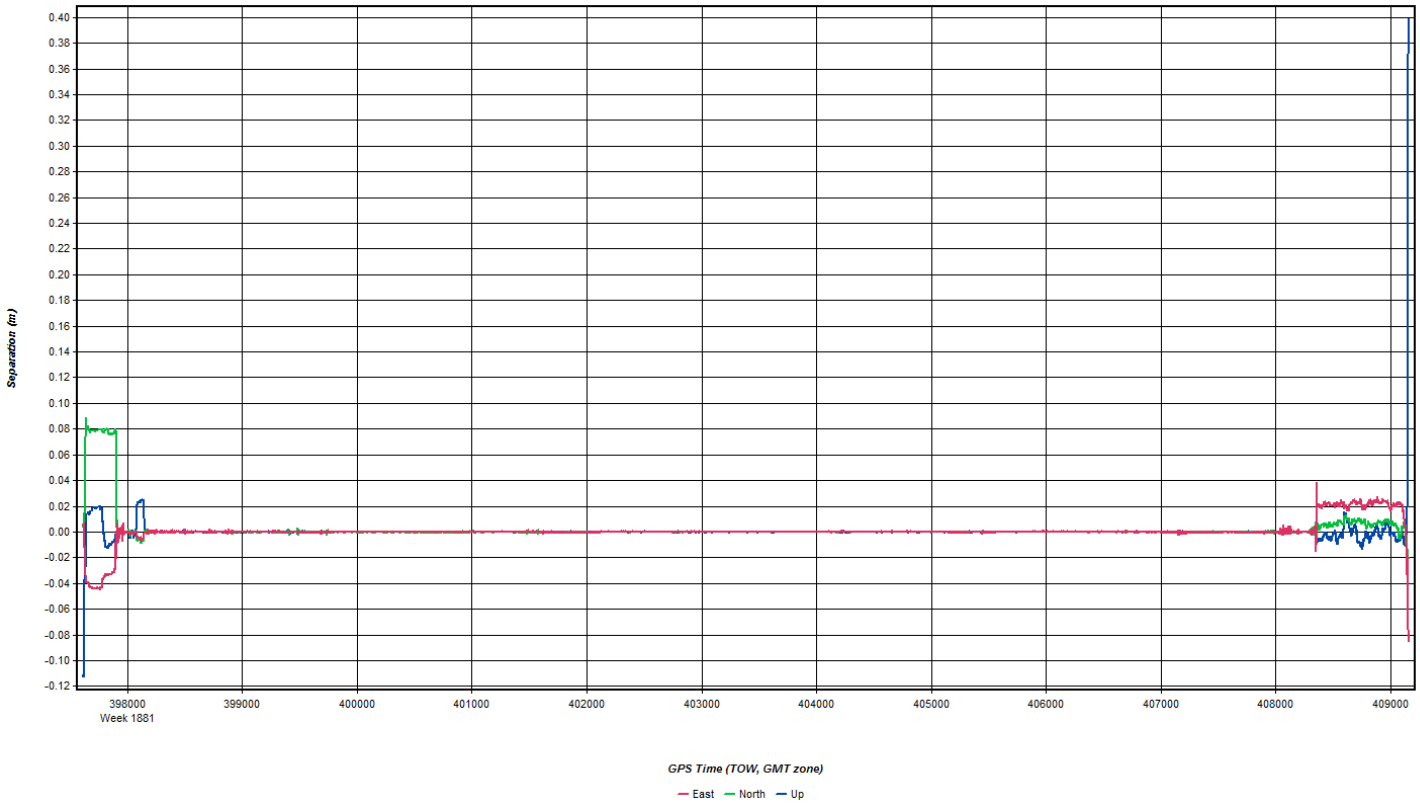
Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@quantumspatial.com

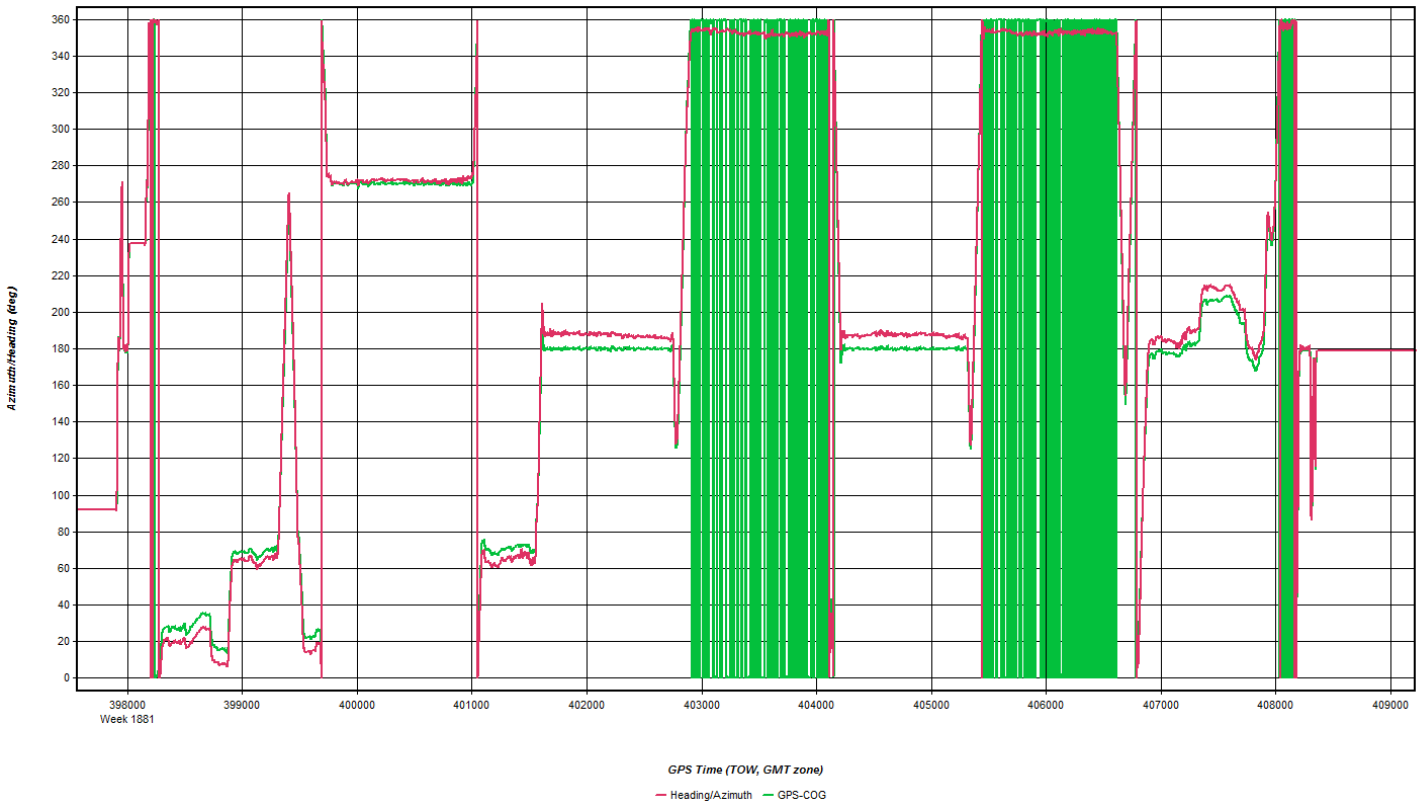
North AOI - UTM Zone 16

Jan 28, 2016-A (N22GE, SN7178)

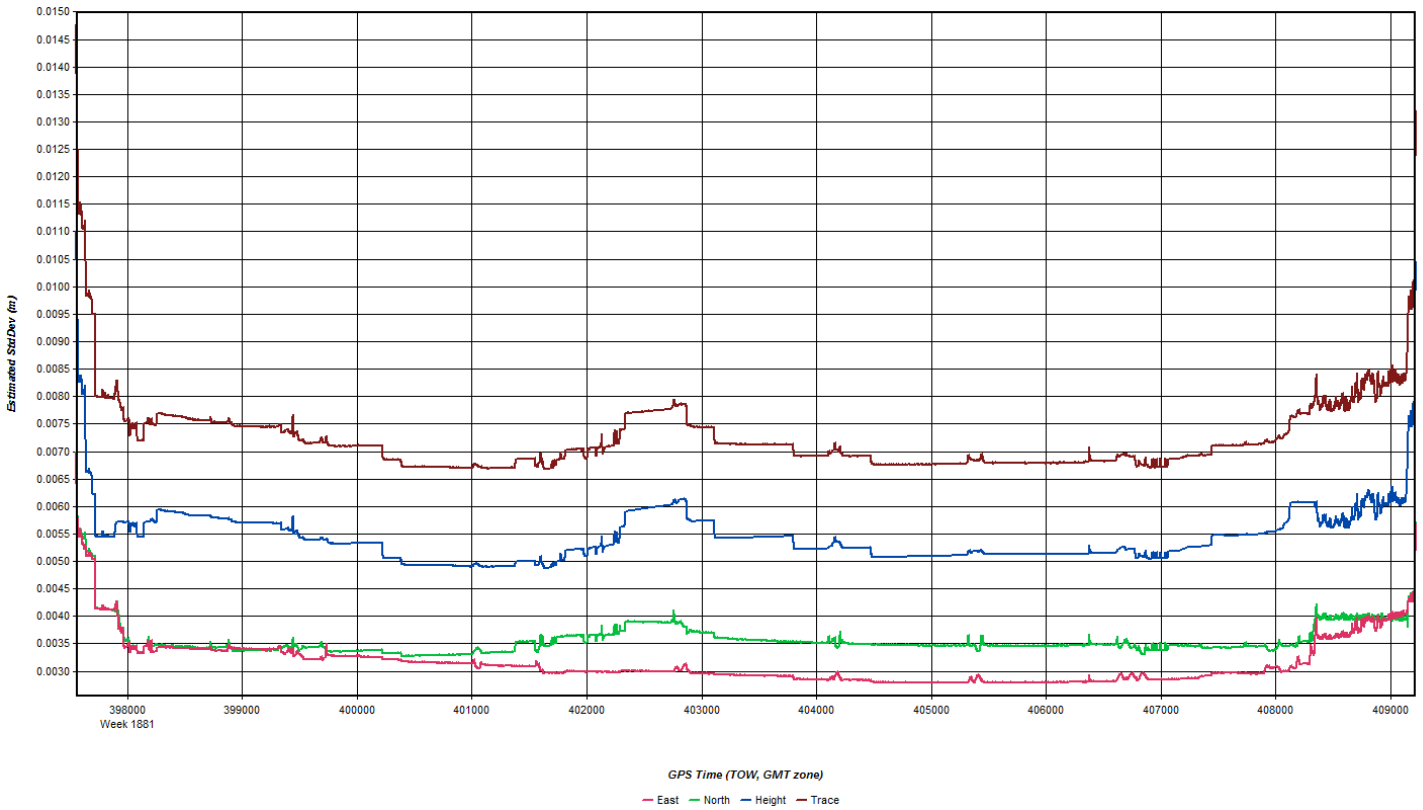

10 km

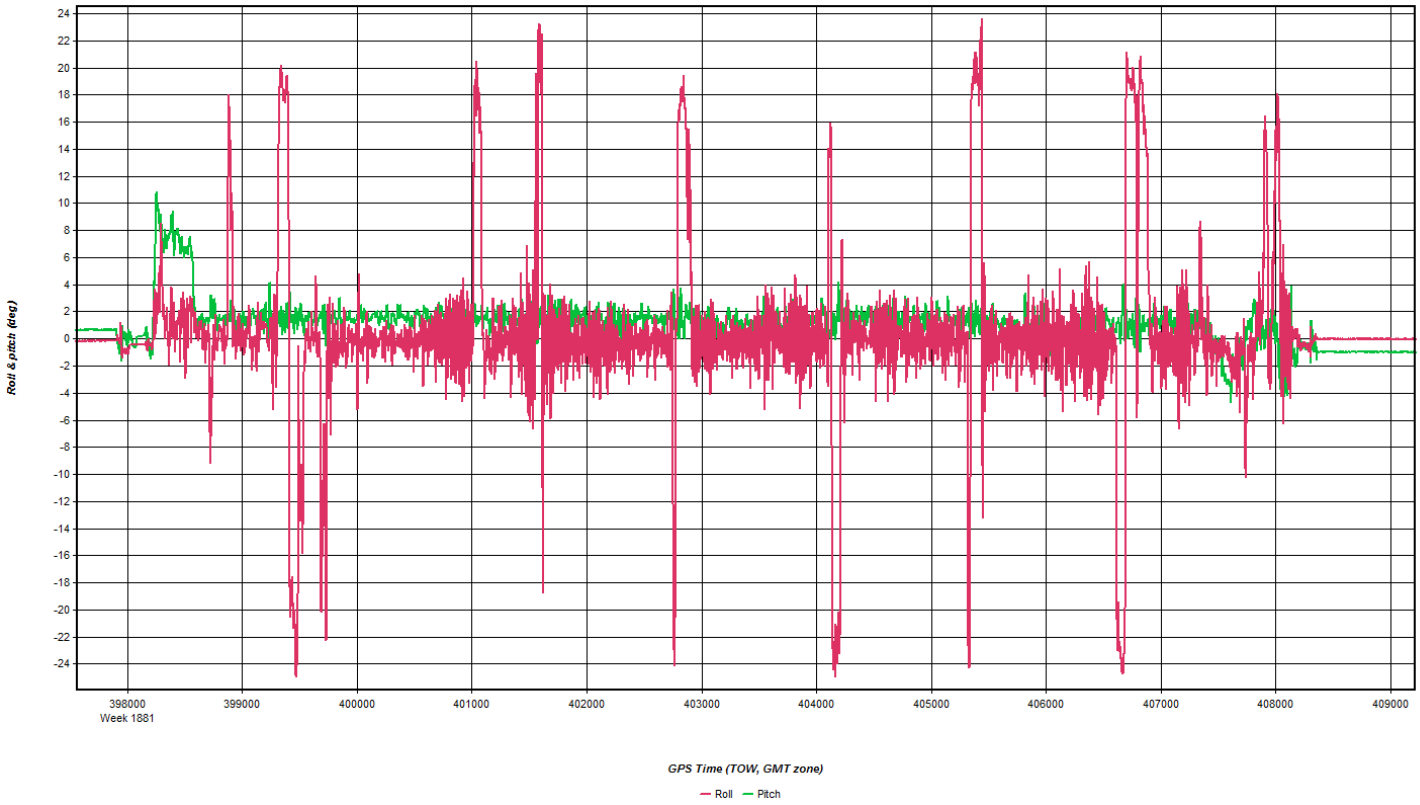

Num Sats
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
398000
Week 1881
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

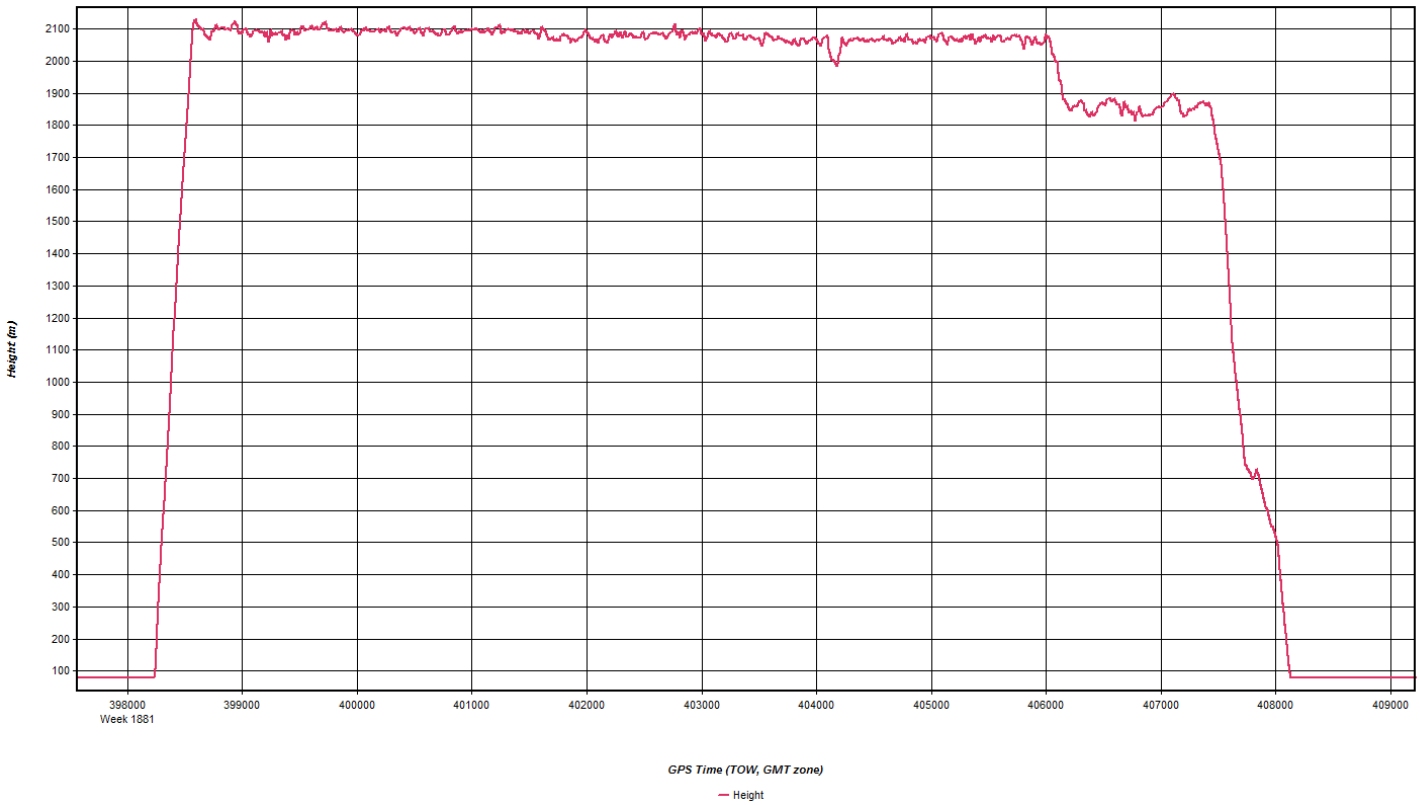

Separation (m)
0.40
0.38
0.36
0.34
0.32
0.30
0.28
0.26
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
-0.10
-0.12
398000
Week 1881
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
GPS Time (TOW, GMT zone)
East
North
Up


Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
398000
Week 1881
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

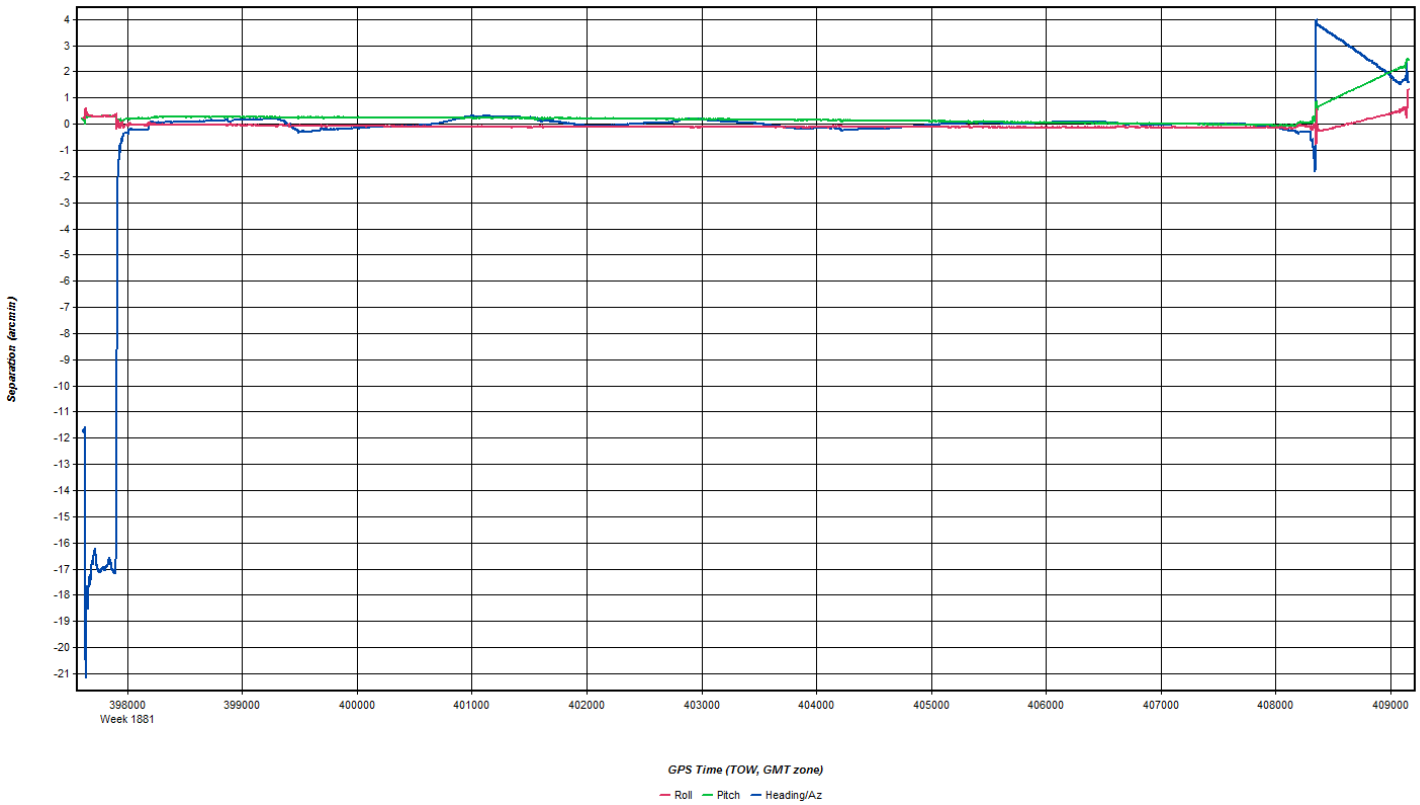

PDOP
1.70
1.65
1.60
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
0.95
398000
Week 1881
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
GPS Time (TOW, GMT zone)
PDOP

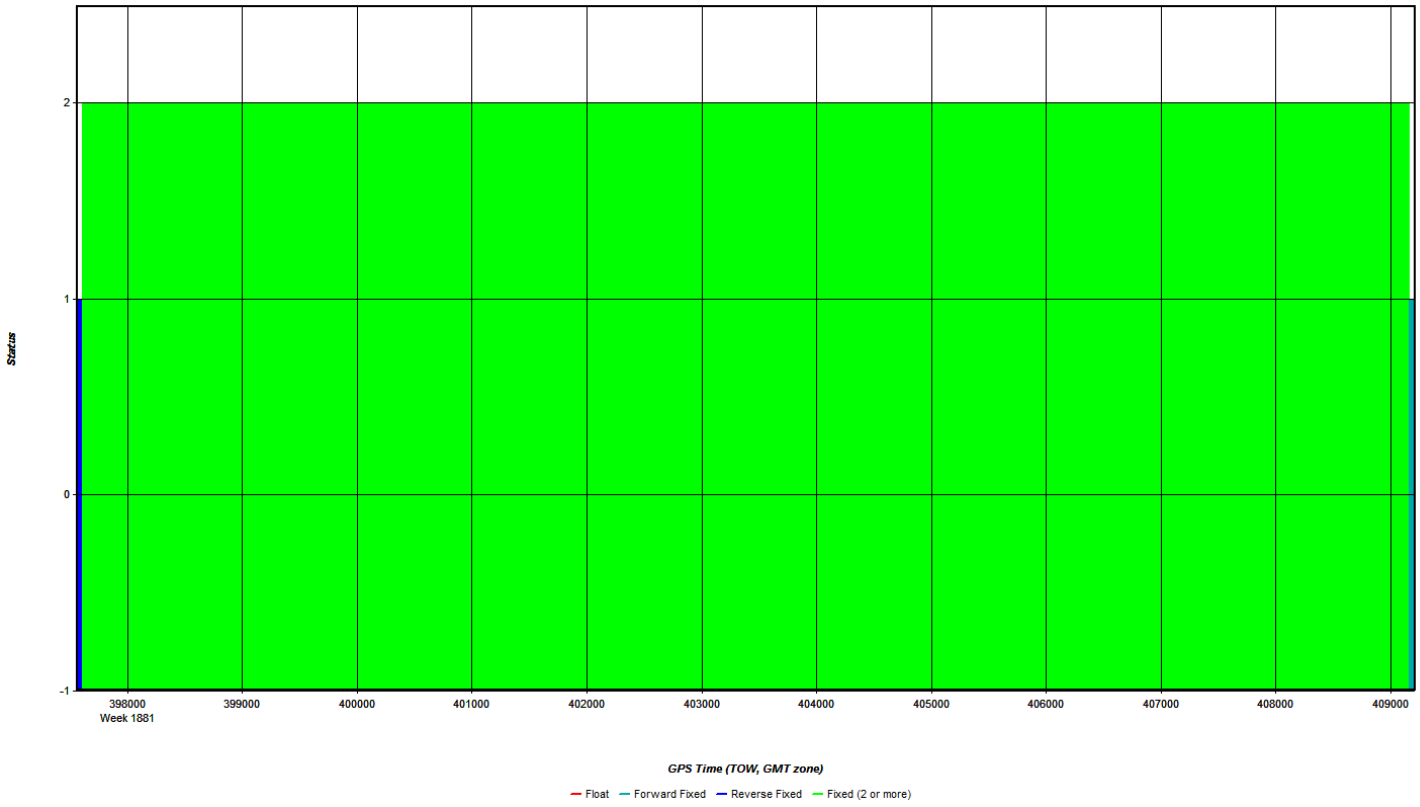

Estimated StdDev (m)
0.0150
0.0145
0.0140
0.0135
0.0130
0.0125
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
398000
Week 1881
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

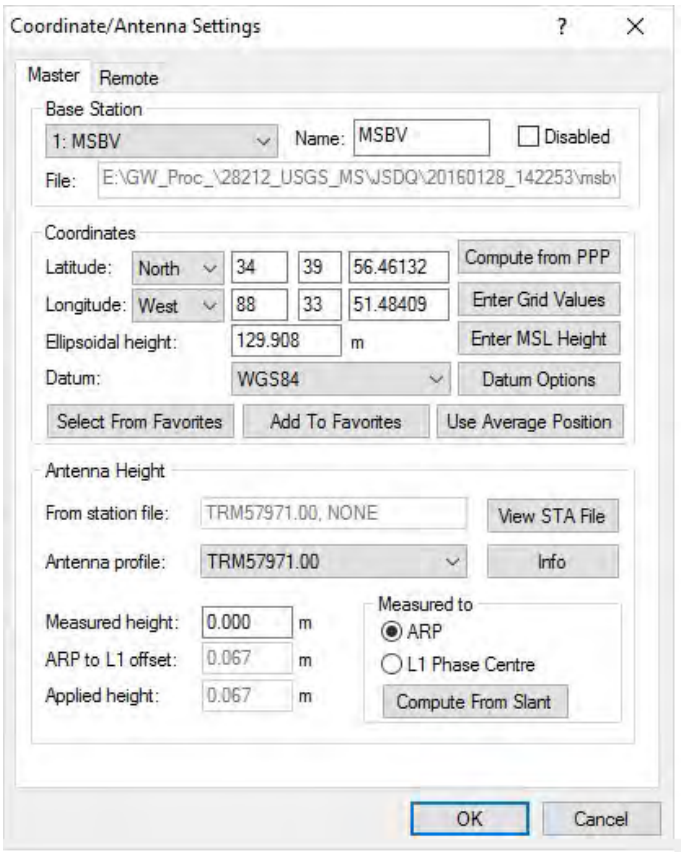

Roll & pitch (deg)
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
398000
Week 1881
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
GPS Time (TOW, GMT zone)
Roll
Pitch


Height (m)
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
398000
Week 1881
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
GPS Time (TOW, GMT zone)
Height


RMS (m)
0.048
0.046
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
398000
Week 1881
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
4
3
2
1
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15
-16
-17
-18
-19
-20
-21
398000
Week 1881
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
398000
Week 1881
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSBV
Name:
MSBV
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\JSDQ\20160128_142253\msbv
Coordinates
Latitude:
North
34
39
56.46132
Compute from PPP
Longitude:
West
88
33
51.48409
Enter Grid Values
Ellipsoidal height:
129.908
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM57971.00, NONE
View STA File
Antenna profile:
TRM57971.00
Info
Measured height:
0.000
m
ARP to L1 offset:
0.067
m
Applied height:
0.067
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log

Scanned by CamScanner

OPERATORS FLIGHT LOG

YYYYMMDD_TIME(GPS)

MISSION: 20160128-142253 DATE: 01-28-2016 LEICA ALS-70 351

PILOT: Bill Smiser OPERATOR: J. Schoone AIRCRAFT: N3826E SENSOR: 7178

PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (ft)	GPS TIME START	GPS TIME STOP	MM70 DRIVE	REMARKS
28212									FF	14:36	15:03		FERRY: TUP → SITE .7
USGS-Mississippi											14:47		CORS-MSBV
	299	270	170	53	40	273	855	6237		15:03	15:23	3	
	248	180						6243		15:34	15:52		
	247	0						6283		15:55	16:14		
	246	180						6296		16:17	16:34		
	245	0						6296		16:38	16:56		CLOUDS AT CORS AND PORT HALF
											17:07		CORS-MSBV
											17:30		FERRY: SITE → TUP .4

STATUS	TOTAL LINES	AIRCRAFT FLOWN	AIRCRAFT LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	NOTES: BASE SET AT KTUP
⊘ 28212	548	5		1.8	1.1	3.1	14:36	17:30	HOBBS 9577.8
○						WX			9580.6
○									

Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@quantumspatial.com

Base Station Log

GPS OBSERVATION LOG

CAROL CONE AZ
MK 2
PID EG1946

Station ID	
Project Number	28212
Project Name	USGS MS.
Rcvr. Type	Novatel DL-V3-L1L2
Rcvr. S/N	7-0141418
Antenna Type	Novatel
Antenna S/N	NAE12110035
Mission	20160128.142253

Date	01/28/2016
Julian Date	028
Start Time	13 :45 : :GPS
Stop Time	18 :36 : :GPS
Rcvr. File Name	00080280.PDC
Observer	J. SCHOONE

New or Existing Mon. ☐ New ☒ Existing

Photo Taken: ☒ Yes ☐ No

STANDARD DISK
SET IN TOP OF A ROUND
CONCRETE POST, FLUSH
WITH THE Ground

Monument Type: _____

Spike ☐ PK Nail ☐ AM Washer ☐

Other _____

Height Readings:
(Top of Monument to Bottom of Ground Plane)

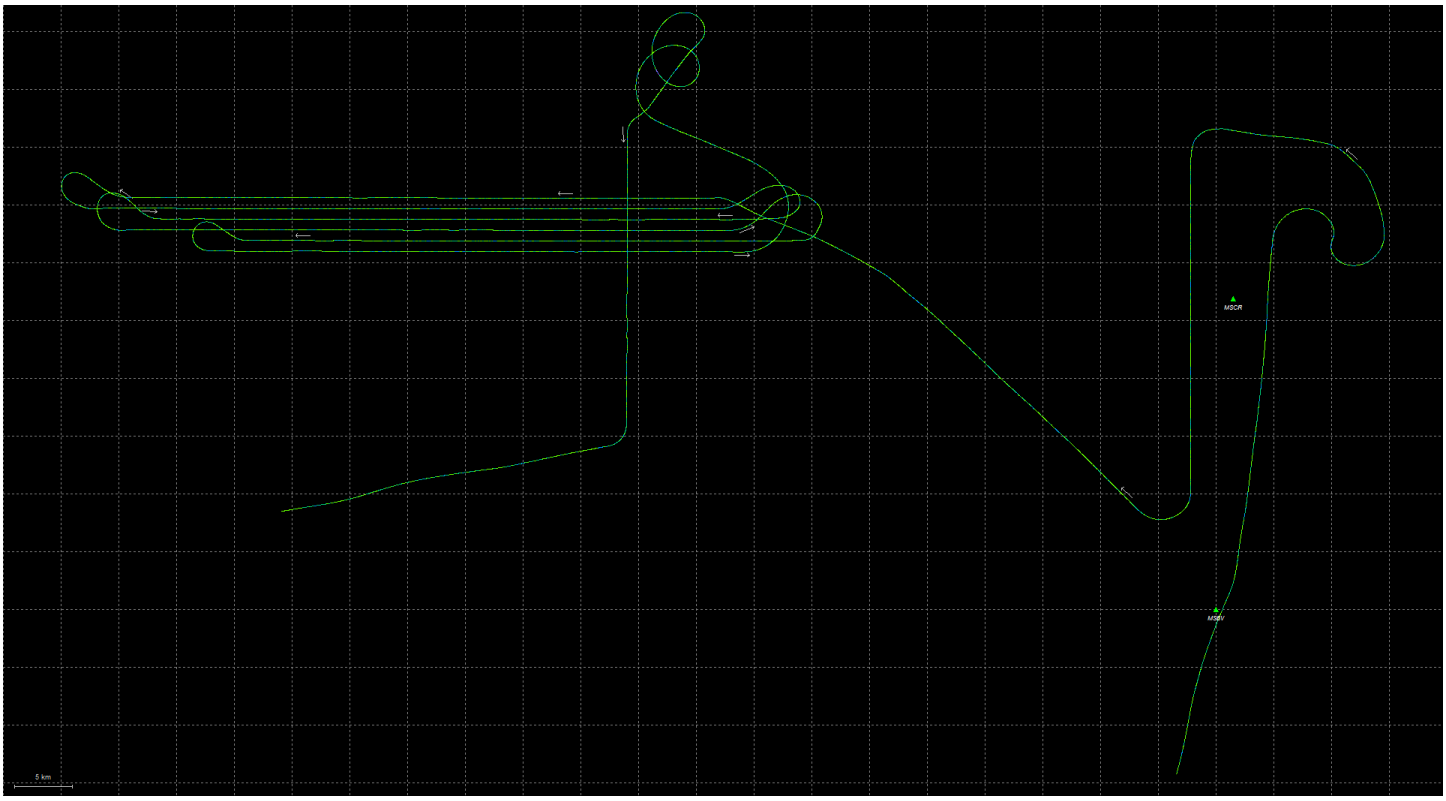
Start	2.0	M.		Ft.
Stop	2.0	M.		Ft.
Mean	2.0	M.		Ft.

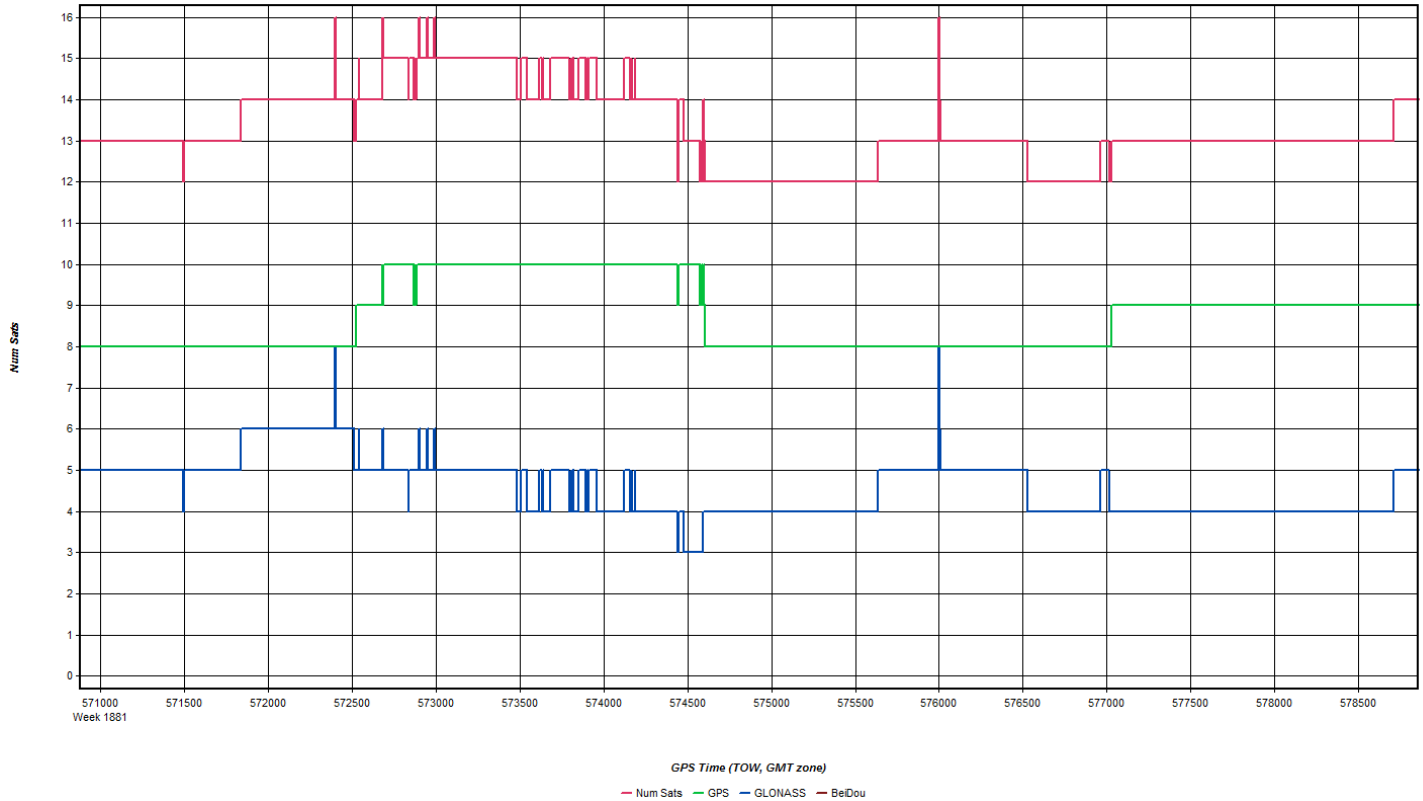


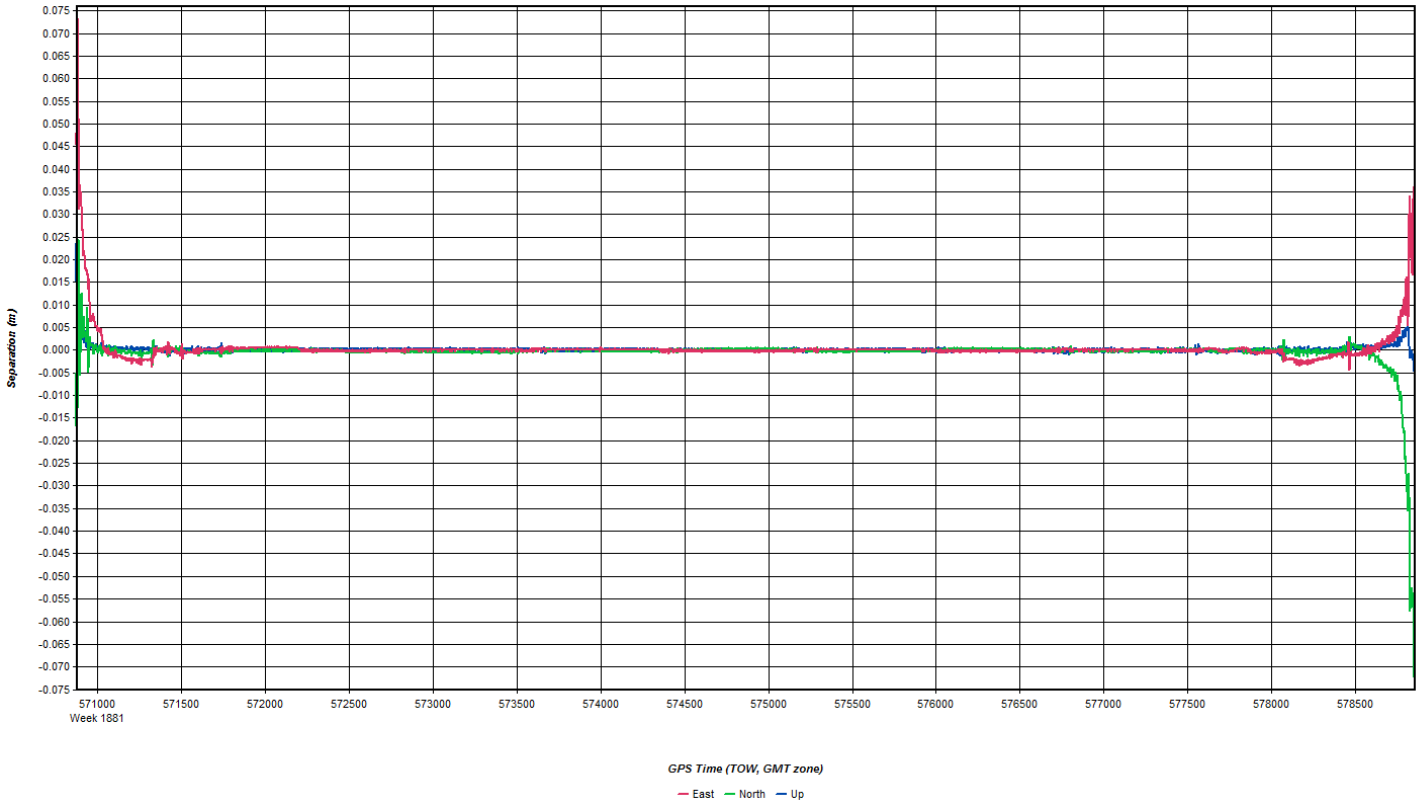
Scanned by CamScanner

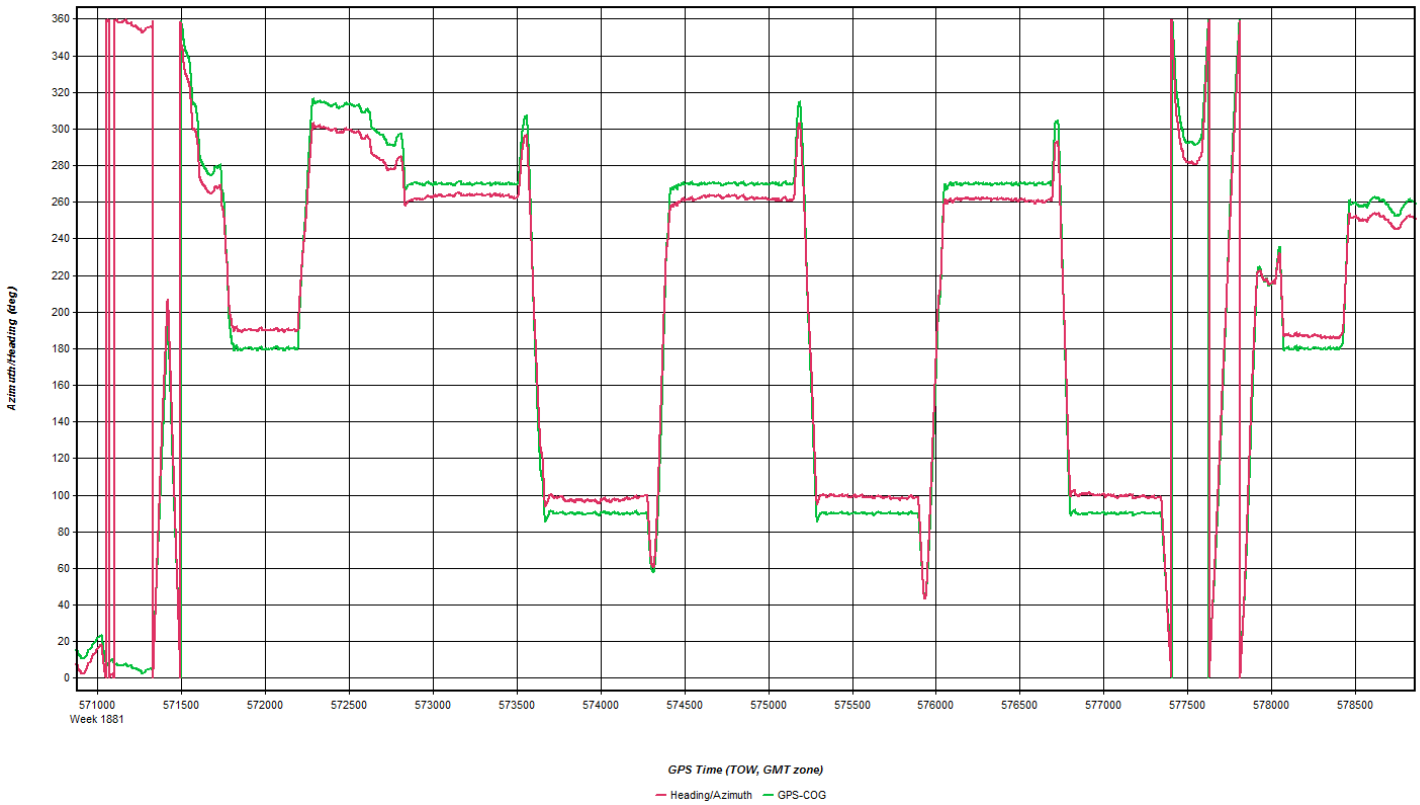
North AOI - UTM Zone 16

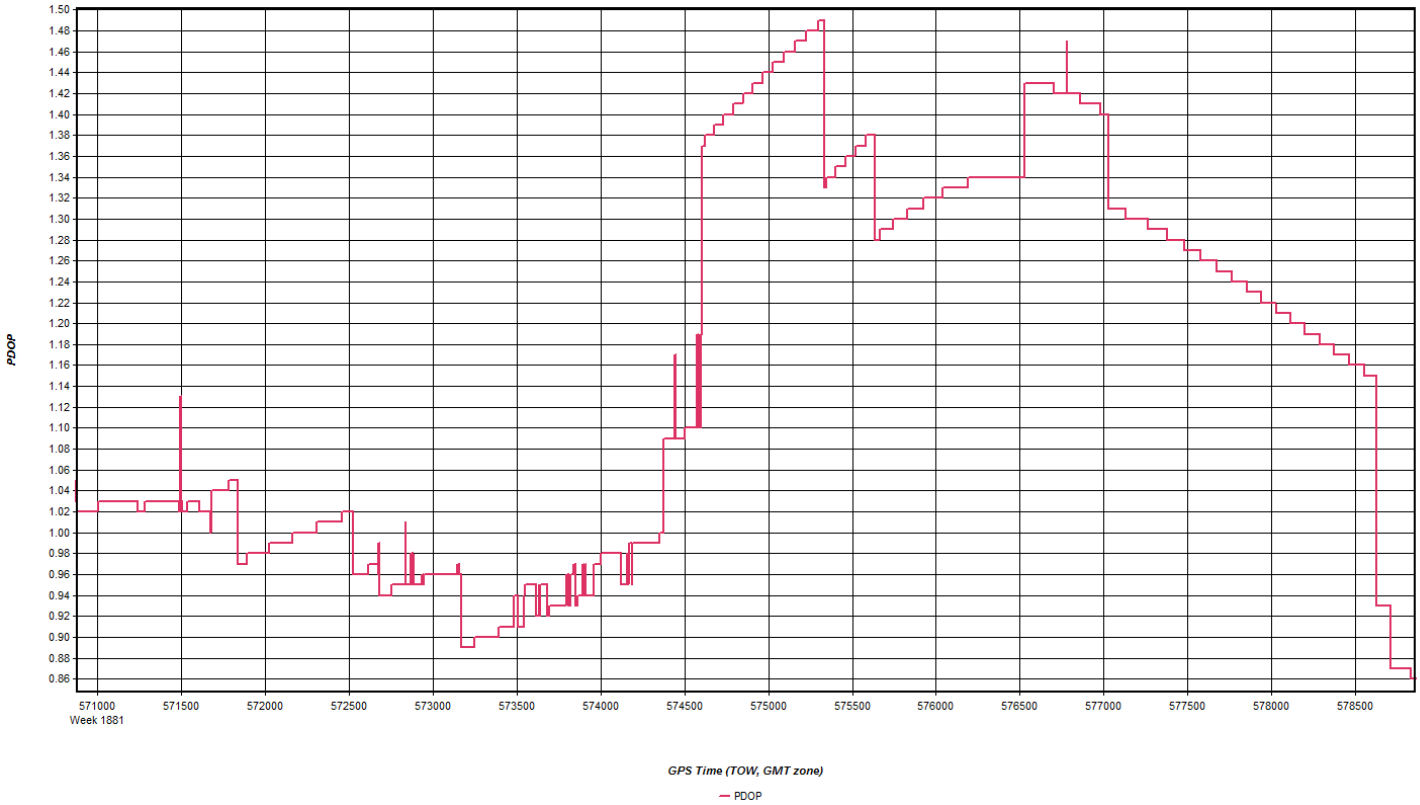
Jan 30, 2016-A (N22GE, SN7178)


MSCR
MSBV
5 km

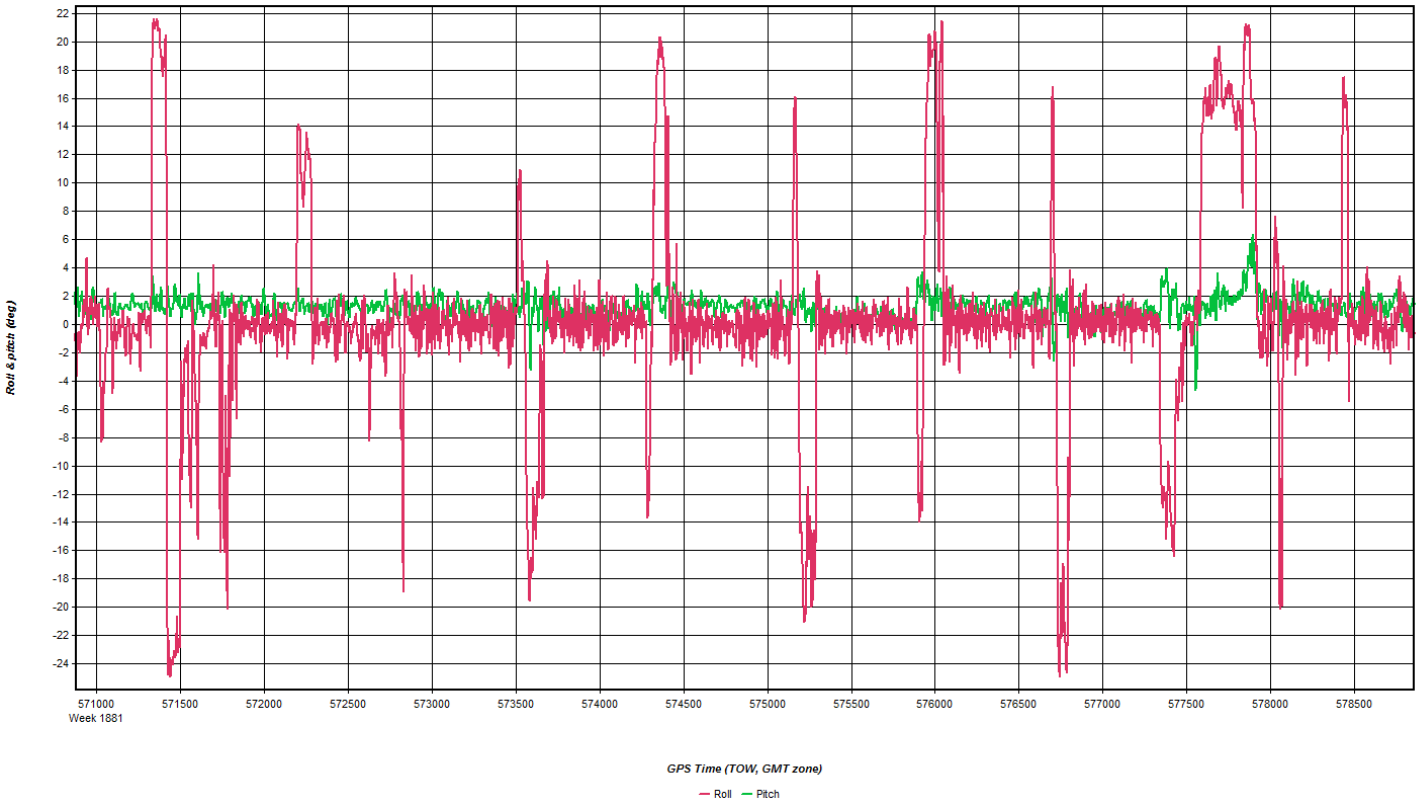

Num Sats
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
571000
Week 1881
571500
572000
572500
573000
573500
574000
574500
575000
575500
576000
576500
577000
577500
578000
578500
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

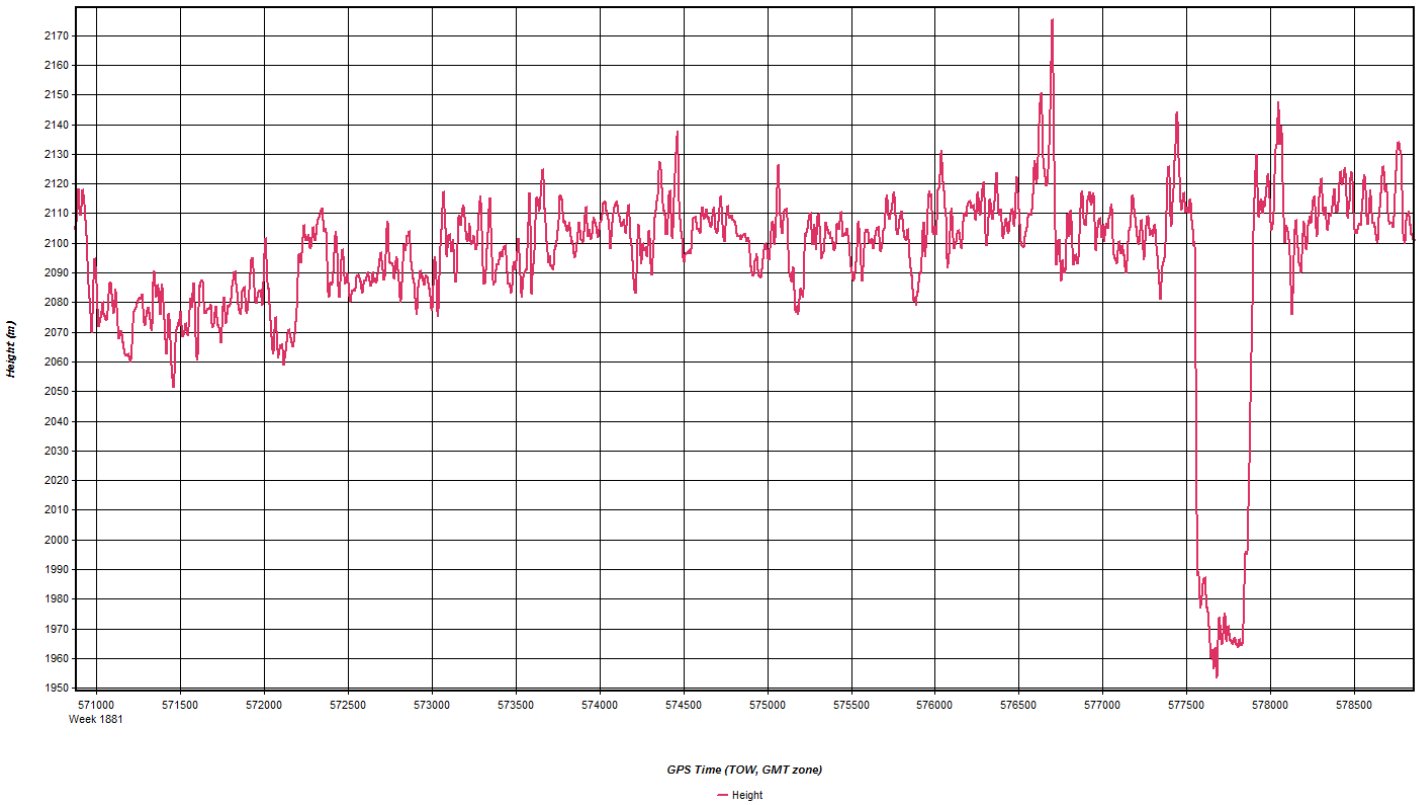

Separation (m)
0.075
0.070
0.065
0.060
0.055
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
-0.010
-0.015
-0.020
-0.025
-0.030
-0.035
-0.040
-0.045
-0.050
-0.055
-0.060
-0.065
-0.070
-0.075
571000
Week 1881
571500
572000
572500
573000
573500
574000
574500
575000
575500
576000
576500
577000
577500
578000
578500
GPS Time (TOW, GMT zone)
East
North
Up

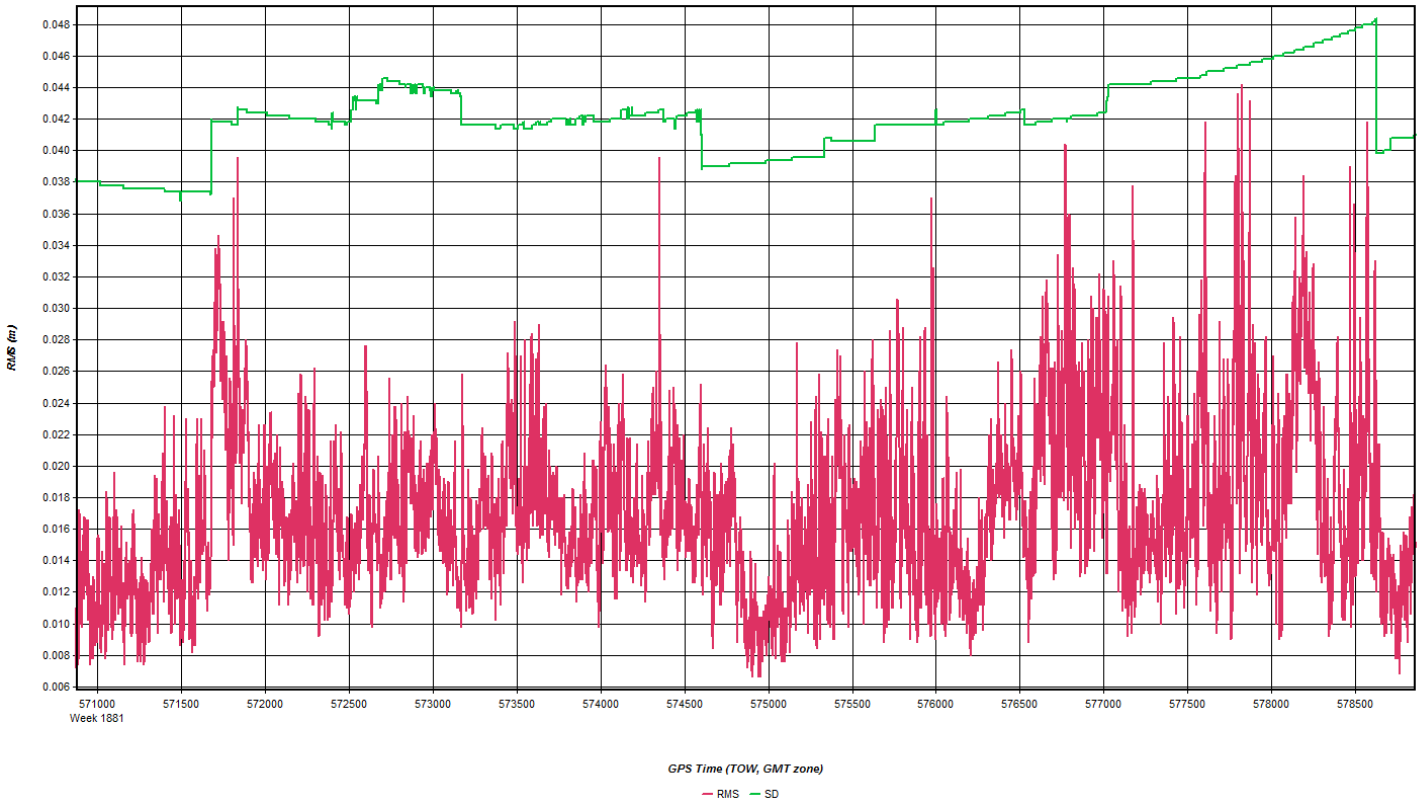

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
571000
Week 1881
571500
572000
572500
573000
573500
574000
574500
575000
575500
576000
576500
577000
577500
578000
578500
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

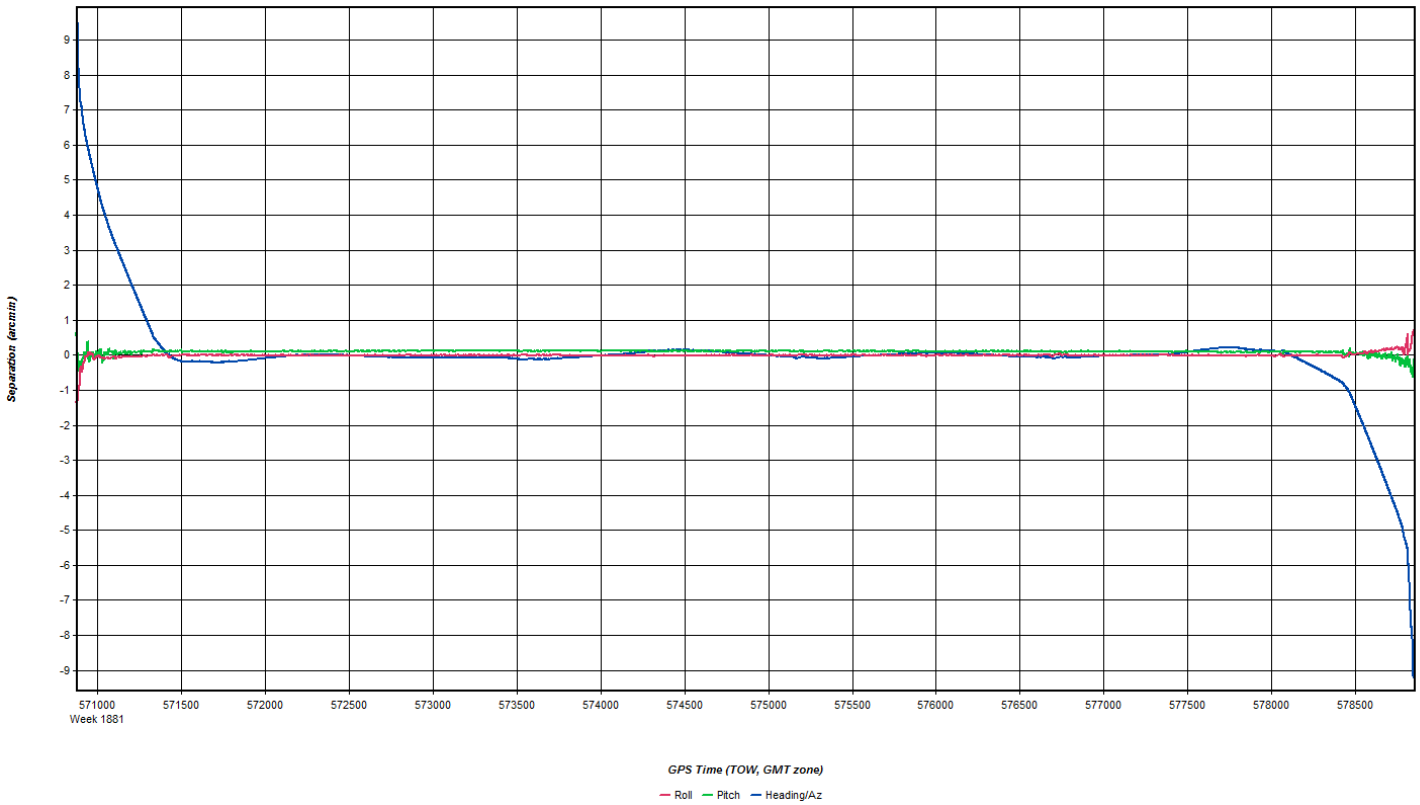

PDOP
1.50
1.48
1.46
1.44
1.42
1.40
1.38
1.36
1.34
1.32
1.30
1.28
1.26
1.24
1.22
1.20
1.18
1.16
1.14
1.12
1.10
1.08
1.06
1.04
1.02
1.00
0.98
0.96
0.94
0.92
0.90
0.88
0.86
571000
Week 1881
571500
572000
572500
573000
573500
574000
574500
575000
575500
576000
576500
577000
577500
578000
578500
GPS Time (TOW, GMT zone)
PDOP

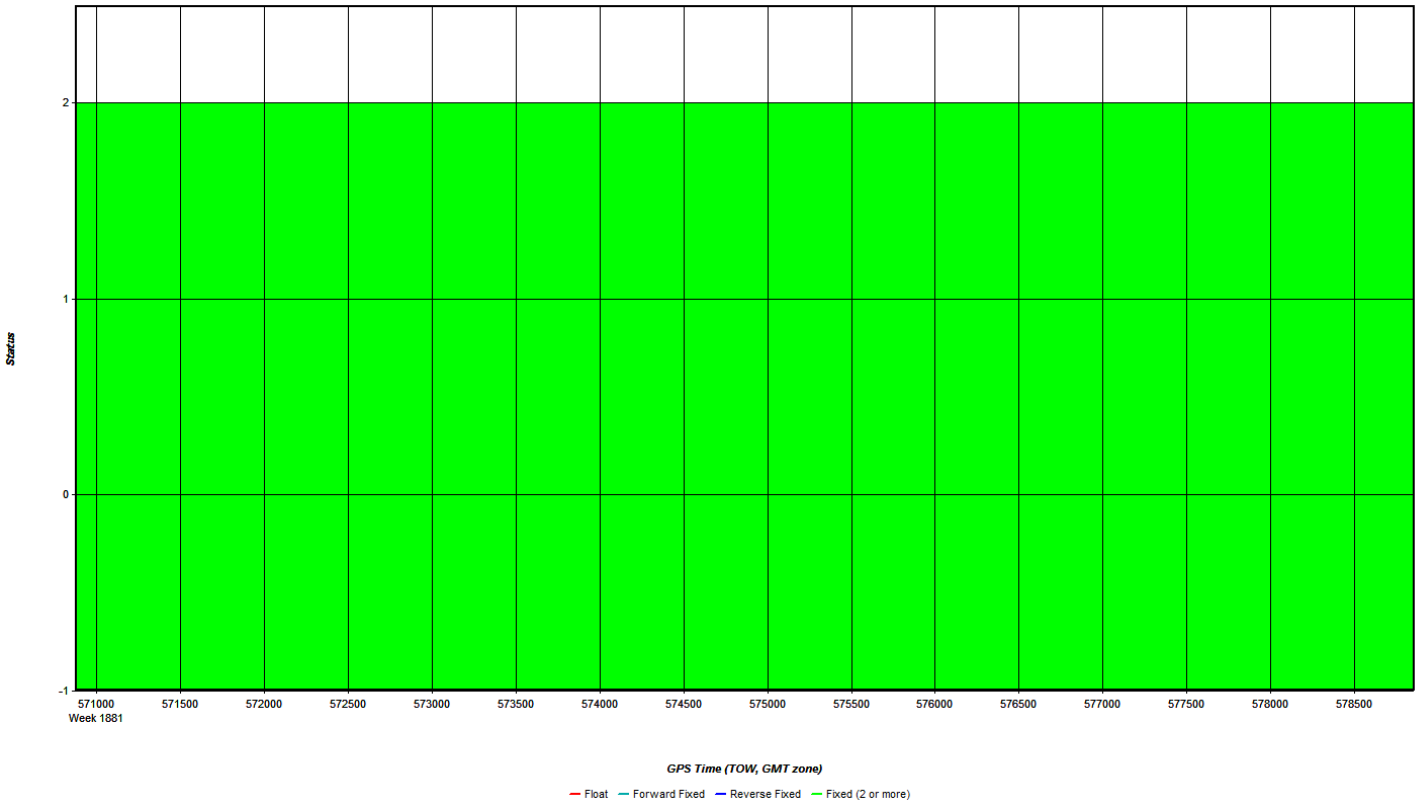

Estimated StdDev (m)
0.0155
0.0150
0.0145
0.0140
0.0135
0.0130
0.0125
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
571000
Week 1881
571500
572000
572500
573000
573500
574000
574500
575000
575500
576000
576500
577000
577500
578000
578500
GPS Time (TOW, GMT zone)
East
North
Height
Trace

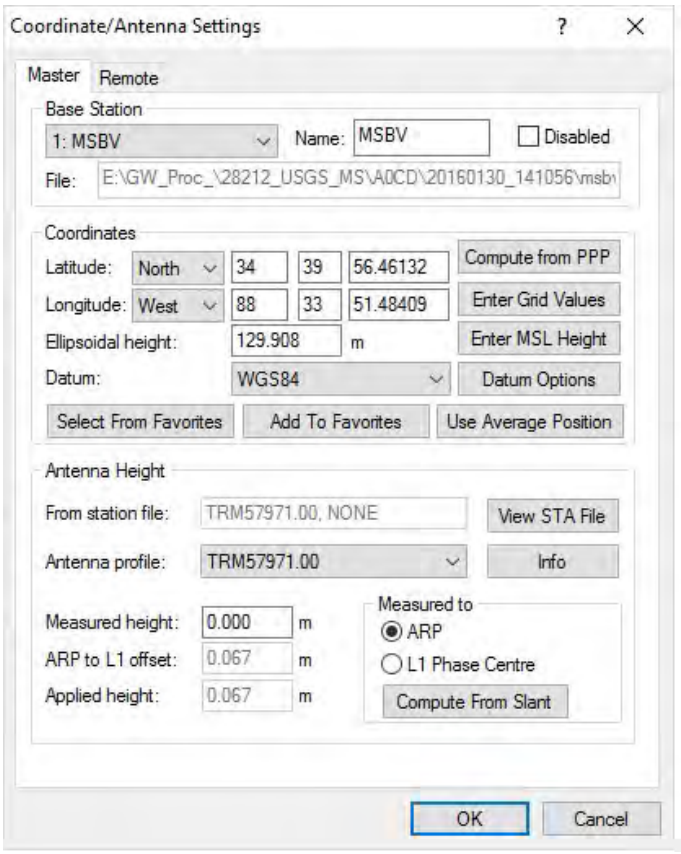

Roll & pitch (deg)
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
571000
Week 1881
571500
572000
572500
573000
573500
574000
574500
575000
575500
576000
576500
577000
577500
578000
578500
GPS Time (TOW, GMT zone)
Roll
Pitch

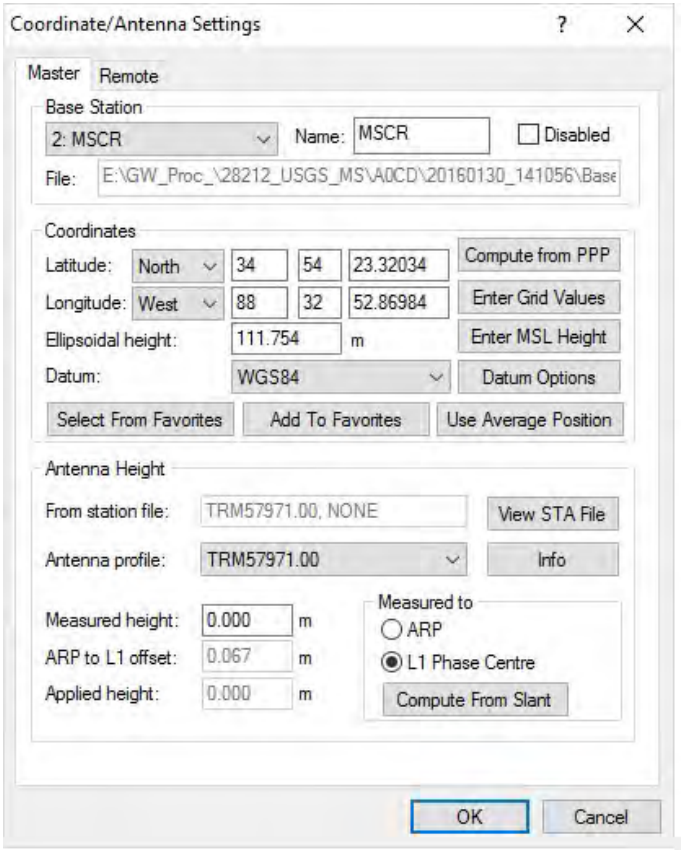

Height (m)
2170
2160
2150
2140
2130
2120
2110
2100
2090
2080
2070
2060
2050
2040
2030
2020
2010
2000
1990
1980
1970
1960
1950
571000
Week 1881
571500
572000
572500
573000
573500
574000
574500
575000
575500
576000
576500
577000
577500
578000
578500
GPS Time (TOW, GMT zone)
Height


RMS (m)
0.048
0.046
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
571000
Week 1881
571500
572000
572500
573000
573500
574000
574500
575000
575500
576000
576500
577000
577500
578000
578500
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
9
8
7
6
5
4
3
2
1
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
571000
Week 1881
571500
572000
572500
573000
573500
574000
574500
575000
575500
576000
576500
577000
577500
578000
578500
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
571000
Week 1881
571500
572000
572500
573000
573500
574000
574500
575000
575500
576000
576500
577000
577500
578000
578500
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSBV
Name:
MSBV
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\A0CD\20160130_141056\msbv
Coordinates
Latitude:
North
34
39
56.46132
Compute from PPP
Longitude:
West
88
33
51.48409
Enter Grid Values
Ellipsoidal height:
129.908
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM57971.00, NONE
View STA File
Antenna profile:
TRM57971.00
Info
Measured height:
0.000
m
ARP to L1 offset:
0.067
m
Applied height:
0.067
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel


Coordinate/Antenna Settings
Master
Remote
Base Station
2: MSCR
Name: MSCR
Disabled
File: E:\GW_Proc_\28212_USGS_MS\A0CD\20160130_141056\Base
Coordinates
Latitude: North 34 54 23.32034
Longitude: West 88 32 52.86984
Ellipsoidal height: 111.754 m
Datum: WGS84
Compute from PPP
Enter Grid Values
Enter MSL Height
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file: TRM57971.00, NONE
View STA File
Antenna profile: TRM57971.00
Info
Measured height: 0.000 m
ARP to L1 offset: 0.067 m
Applied height: 0.000 m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log

Scanned by CamScanner

OPERATORS FLIGHT LOG

YYYYMMDD_TIME(GPS)

MISSION: 20160130-141056 DATE: 01-30-16 LEICA ALS-70 JS1

PILOT: Bill Sarsen OPERATOR: Jim Schoose AIRCRAFT: N3826E SENSOR: 7178

PROJECT NUMBER AND NAME	STATUS	TOTAL LINES	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht (m)	GPS TIME START	GPS TIME STOP	MNTO DRIVE	REMARKS
20212											FT				
	⊘	508				7						14:13	14:30		Ferry: TUP → Site
USGS-Mississippi															45

Base Station Log

GPS OBSERVATION LOG

Station ID	CAROL CONE AZ MK 2 PID EG1946
Project Number	28212
Project Name	USGS MS.
Rcvr. Type	Novatel DL-V3- L1L2
Rcvr. S/N	7-0141418
Antenna Type	Novatel
Antenna S/N	NAE12110035
Mission	20160130_141056

Date	01 / 30 / 16
Julian Date	030
Start Time	07 : 54 : : GPS
Stop Time	17 : 47 : : GPS
Rcvr. File Name	00080300.PDC
Observer	J. Schlosser

New or Existing Mon. ☐ New ☒ Existing

Photo Taken: ☒ Yes ☐ No

STANDARD DISK
SET IN TOP OF A ROUND
CONCRETE POST, FLUSH
WITH THE Ground

Monument Type: _____

Spike ☐ PK Nail ☐ AM Washer ☐

Other _____

Height Readings:
(Top of Monument to Bottom of Ground Plane)

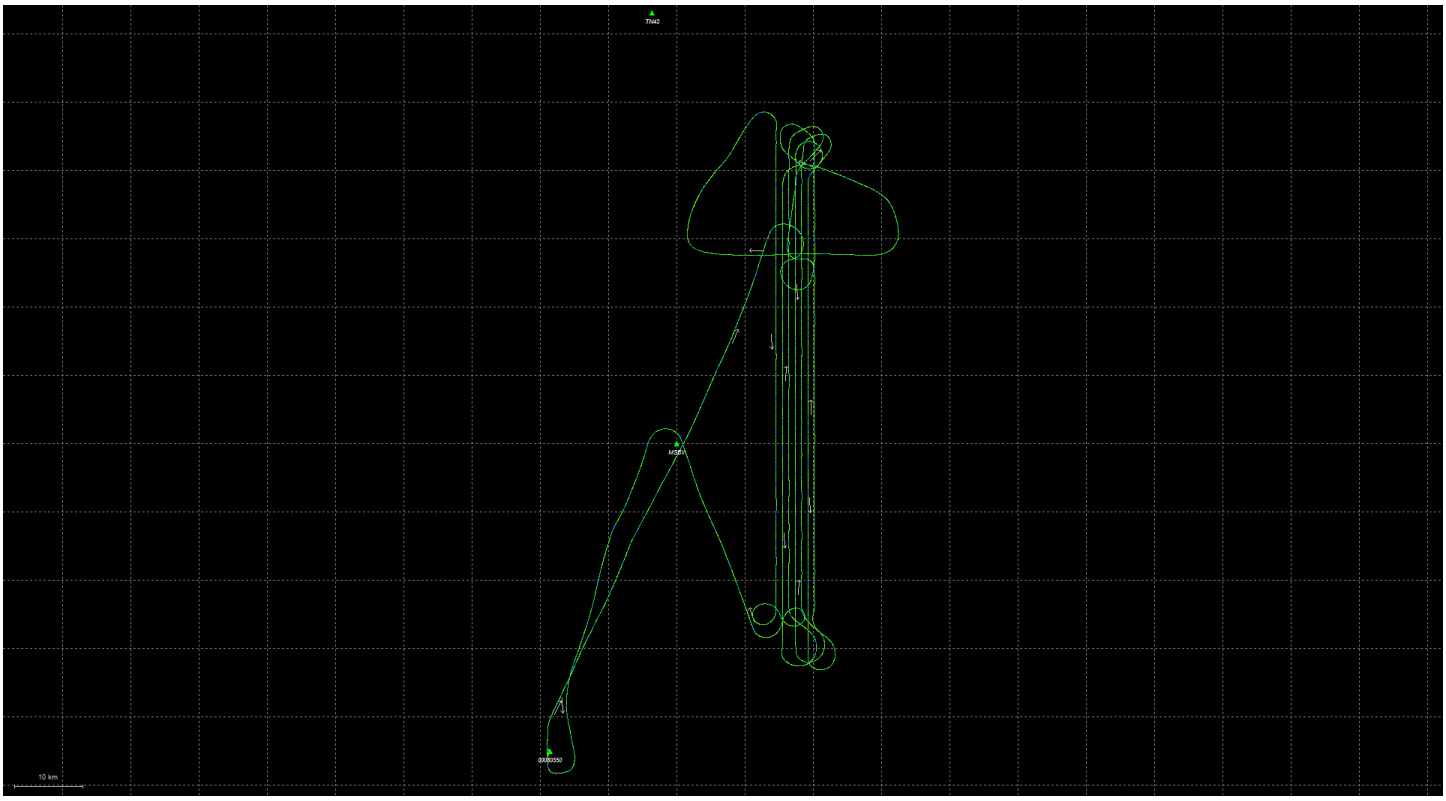
Start	2.0	M.		Ft.
Stop	2.0	M.		Ft.
Mean	2.0	M.		Ft.

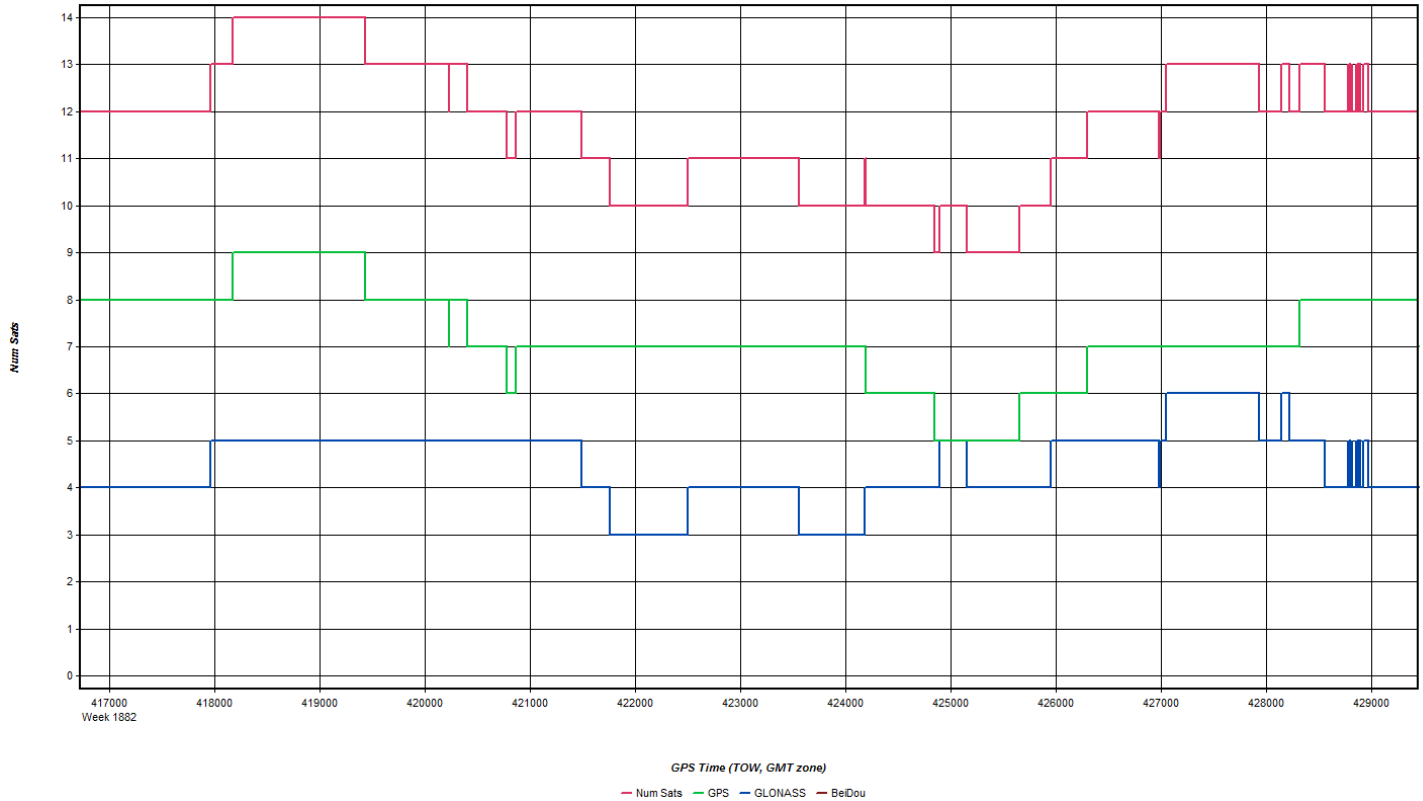


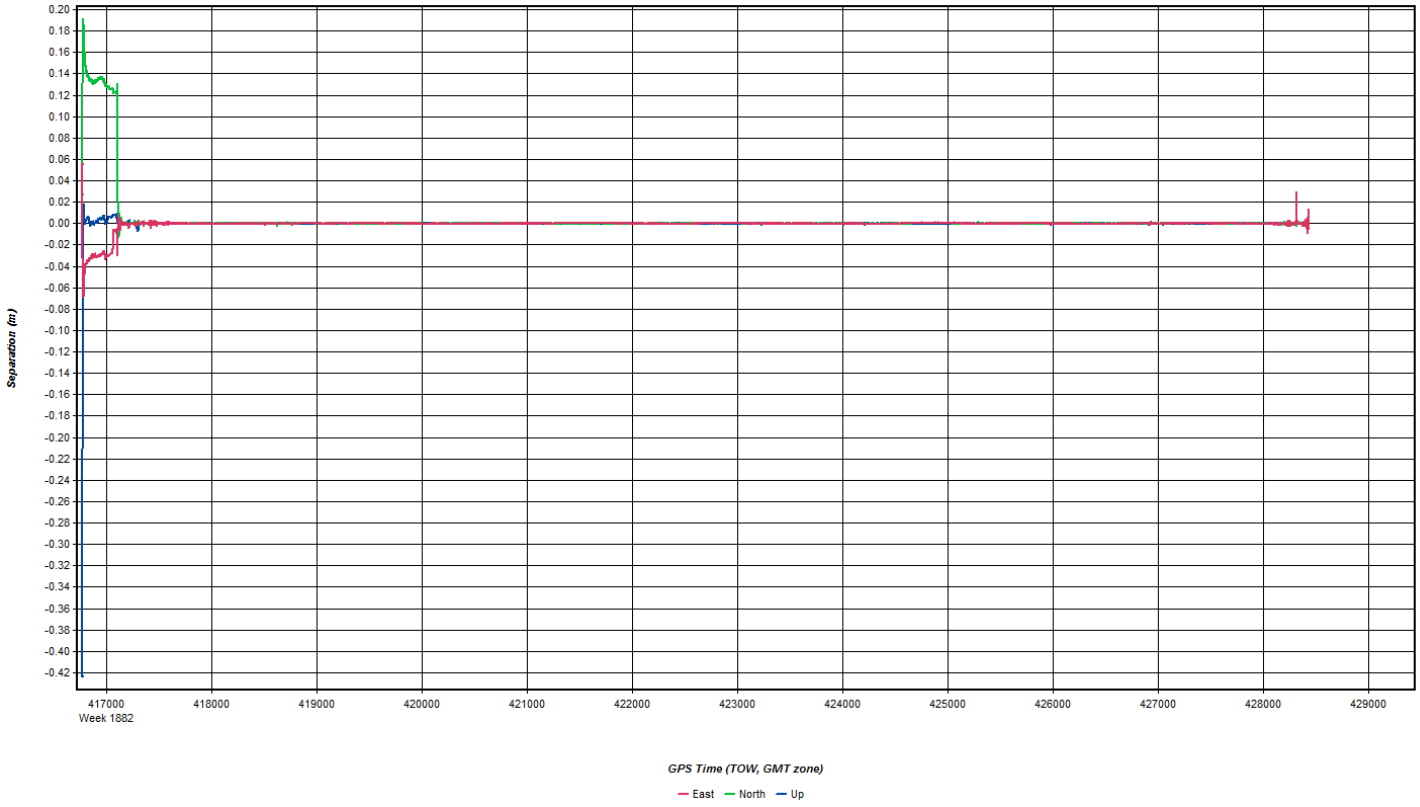
Scanned by CamScanner

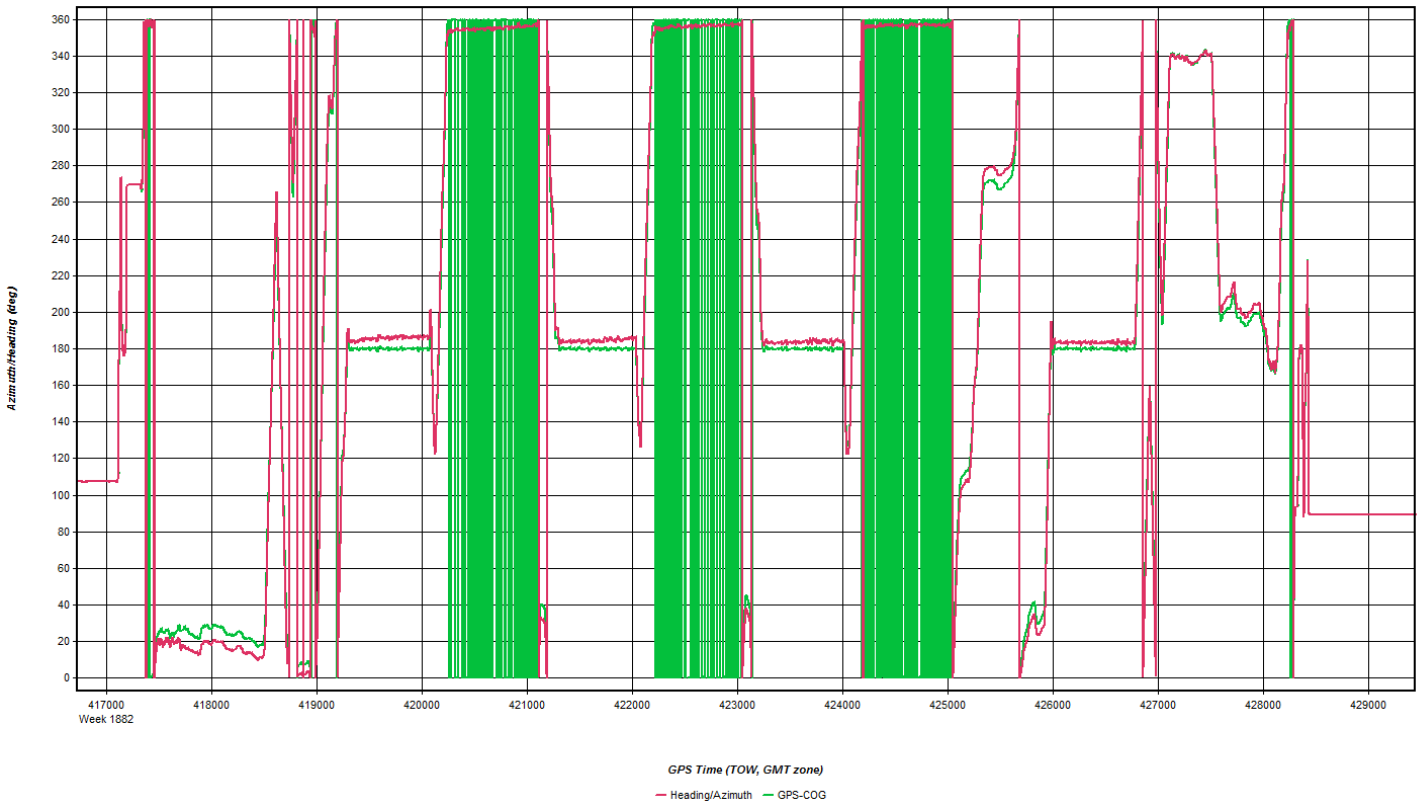
North AOI - UTM Zone 16

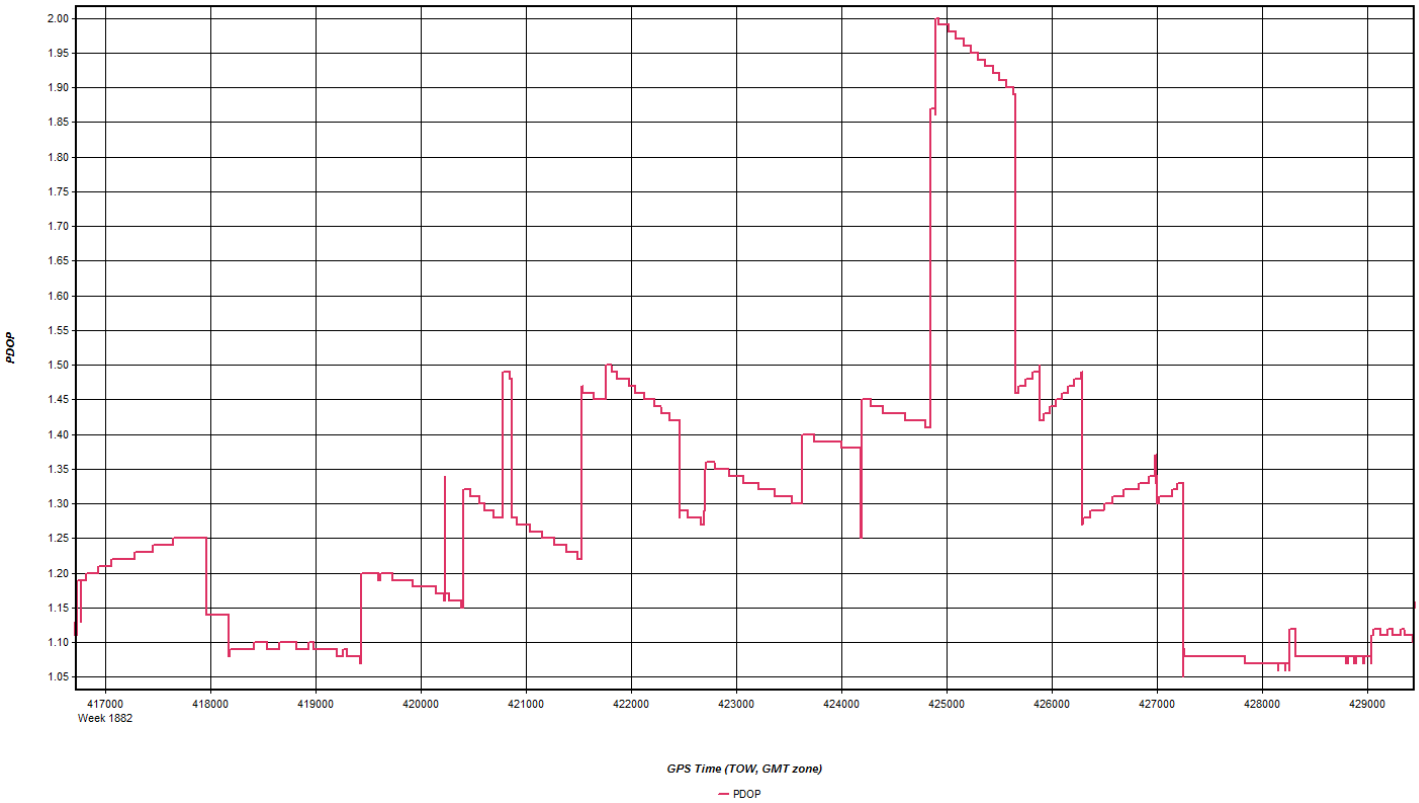
Feb 4, 2016-B (N22GE, SN7178)

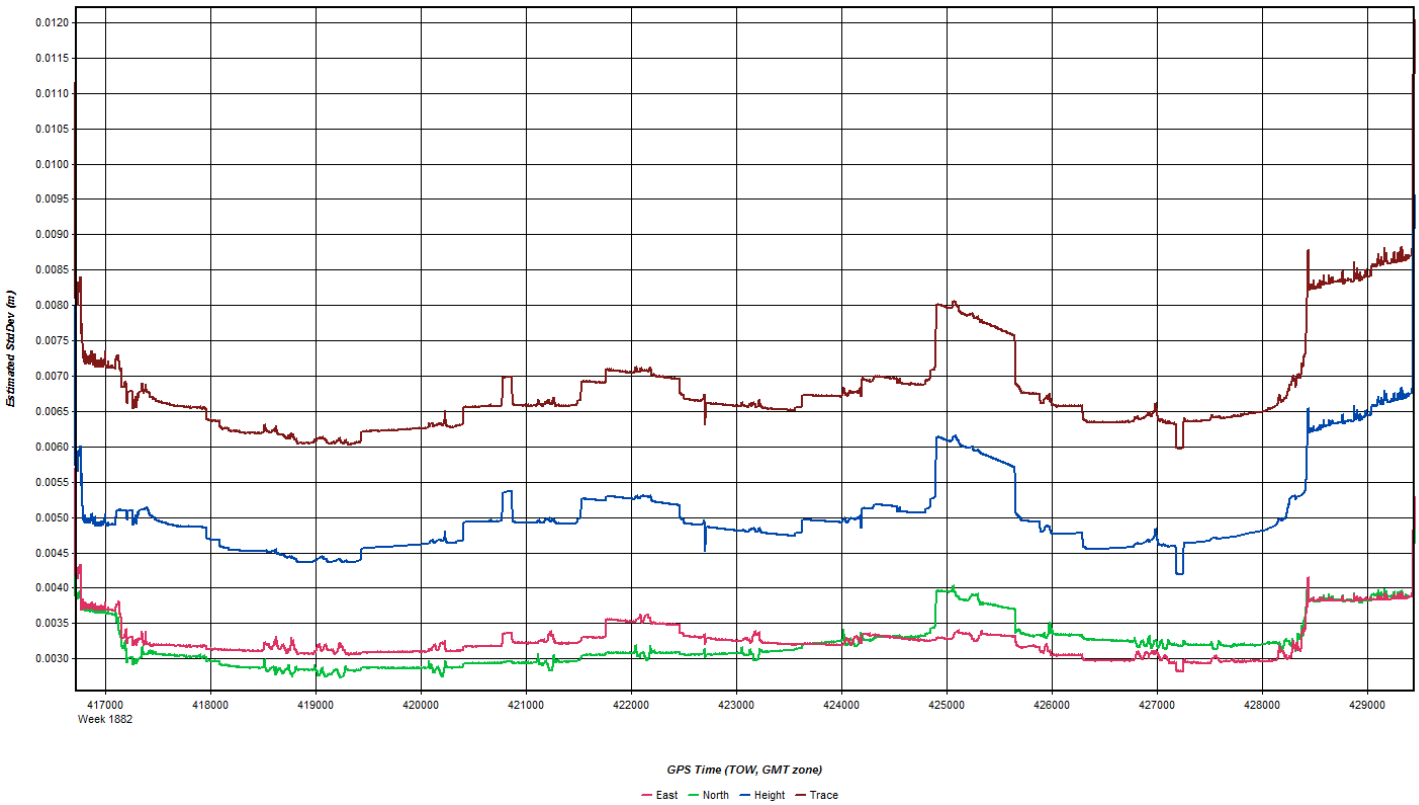

TNAS
MSP1
10 km

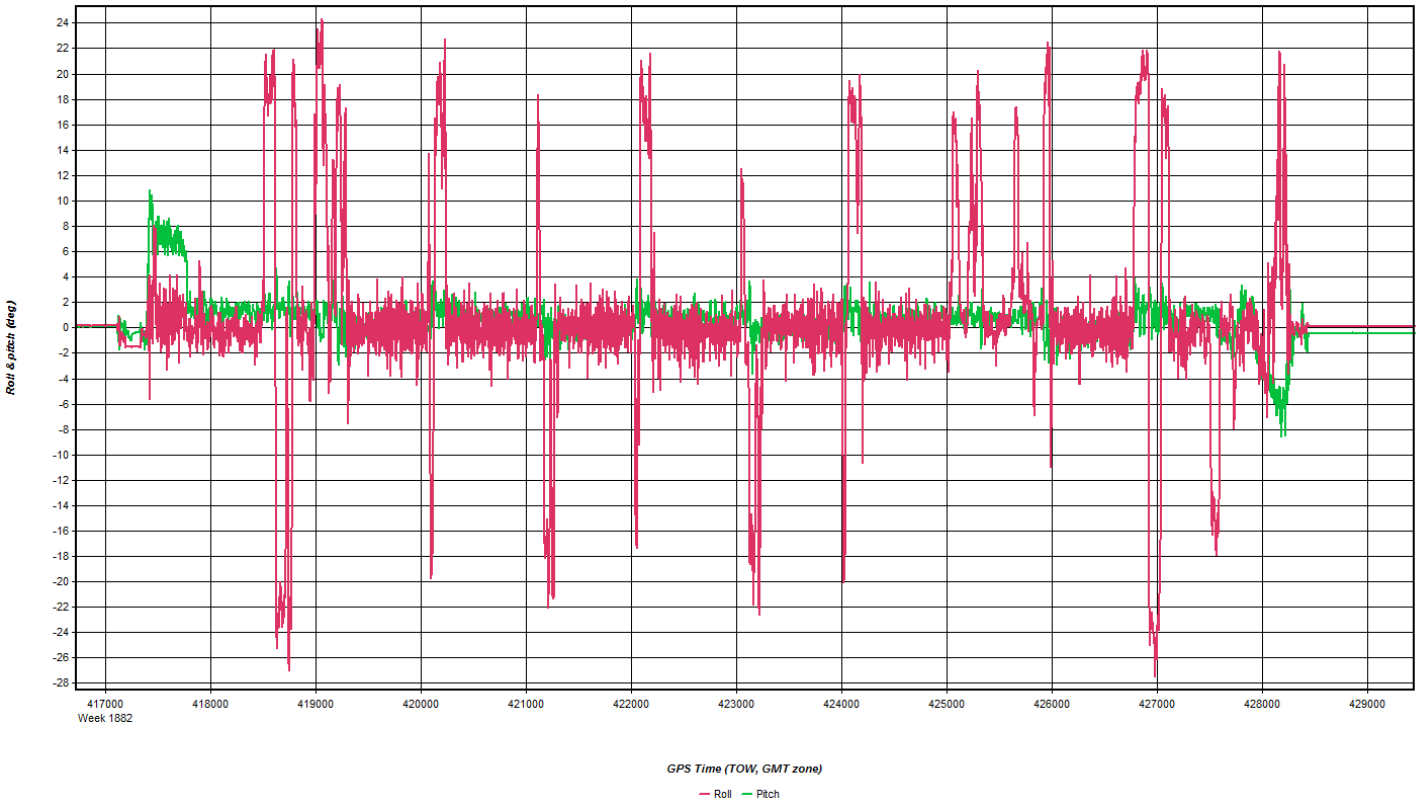

Num Sats
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
417000
Week 1882
418000
419000
420000
421000
422000
423000
424000
425000
426000
427000
428000
429000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

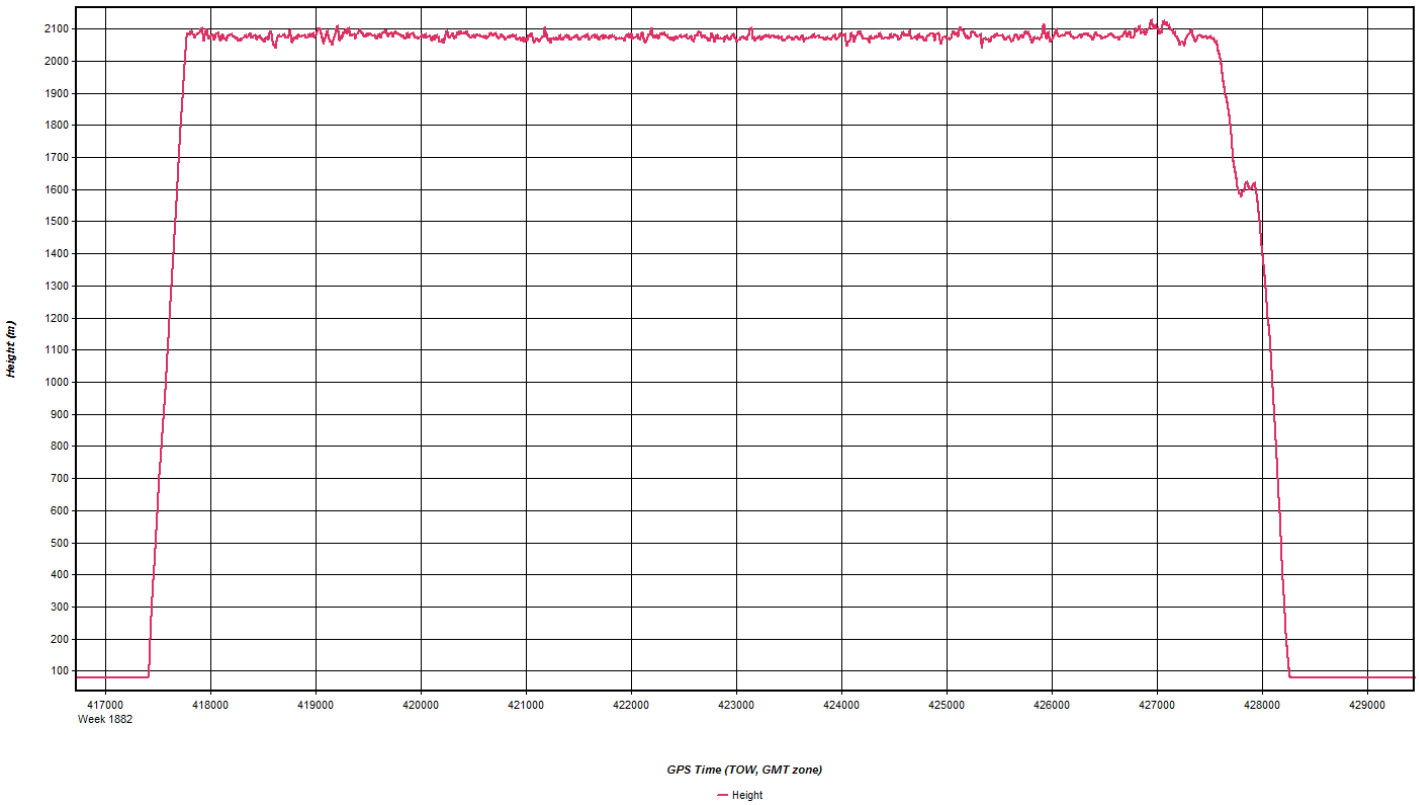

Separation (m)
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
-0.10
-0.12
-0.14
-0.16
-0.18
-0.20
-0.22
-0.24
-0.26
-0.28
-0.30
-0.32
-0.34
-0.36
-0.38
-0.40
-0.42
417000
Week 1882
418000
419000
420000
421000
422000
423000
424000
425000
426000
427000
428000
429000
GPS Time (TOW, GMT zone)
East
North
Up

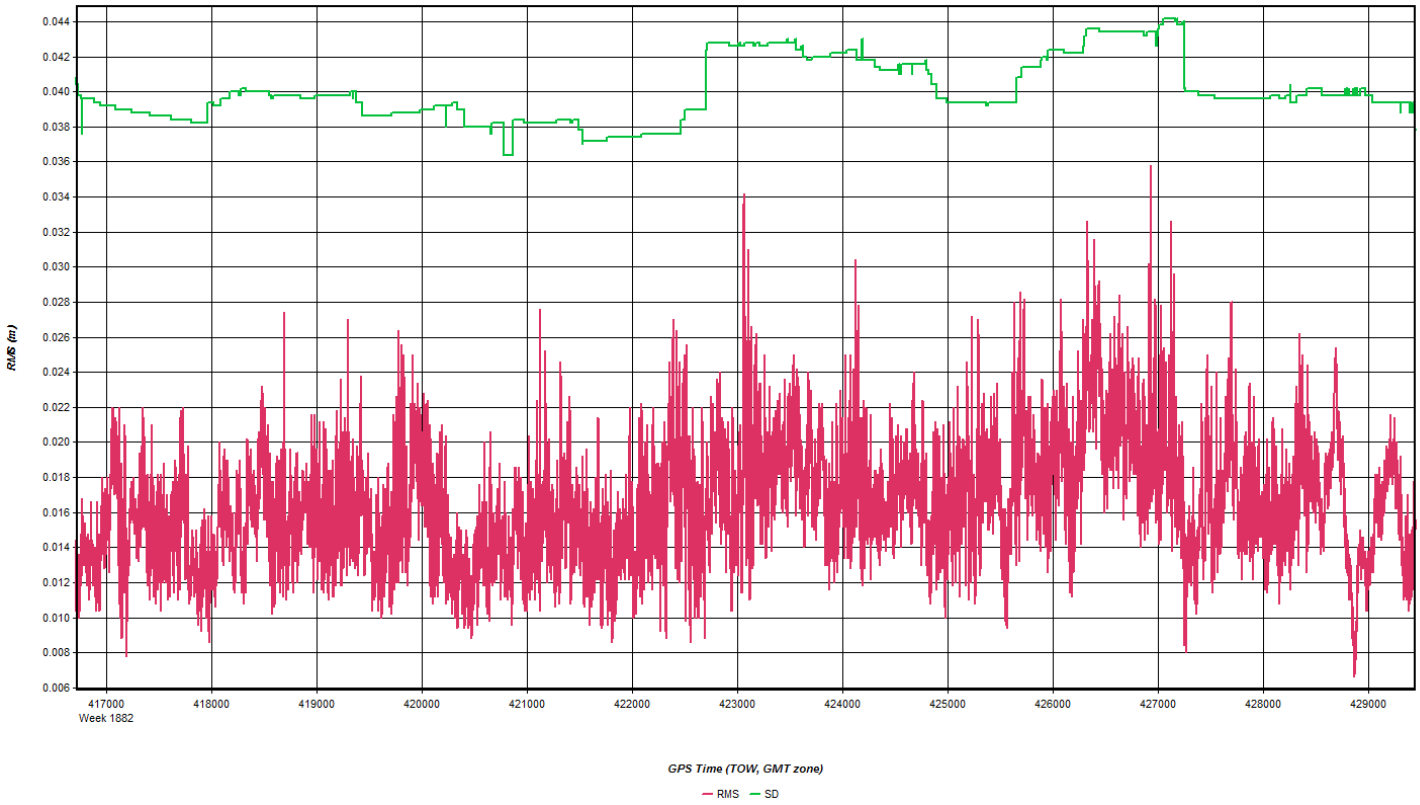

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
417000
Week 1882
418000
419000
420000
421000
422000
423000
424000
425000
426000
427000
428000
429000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

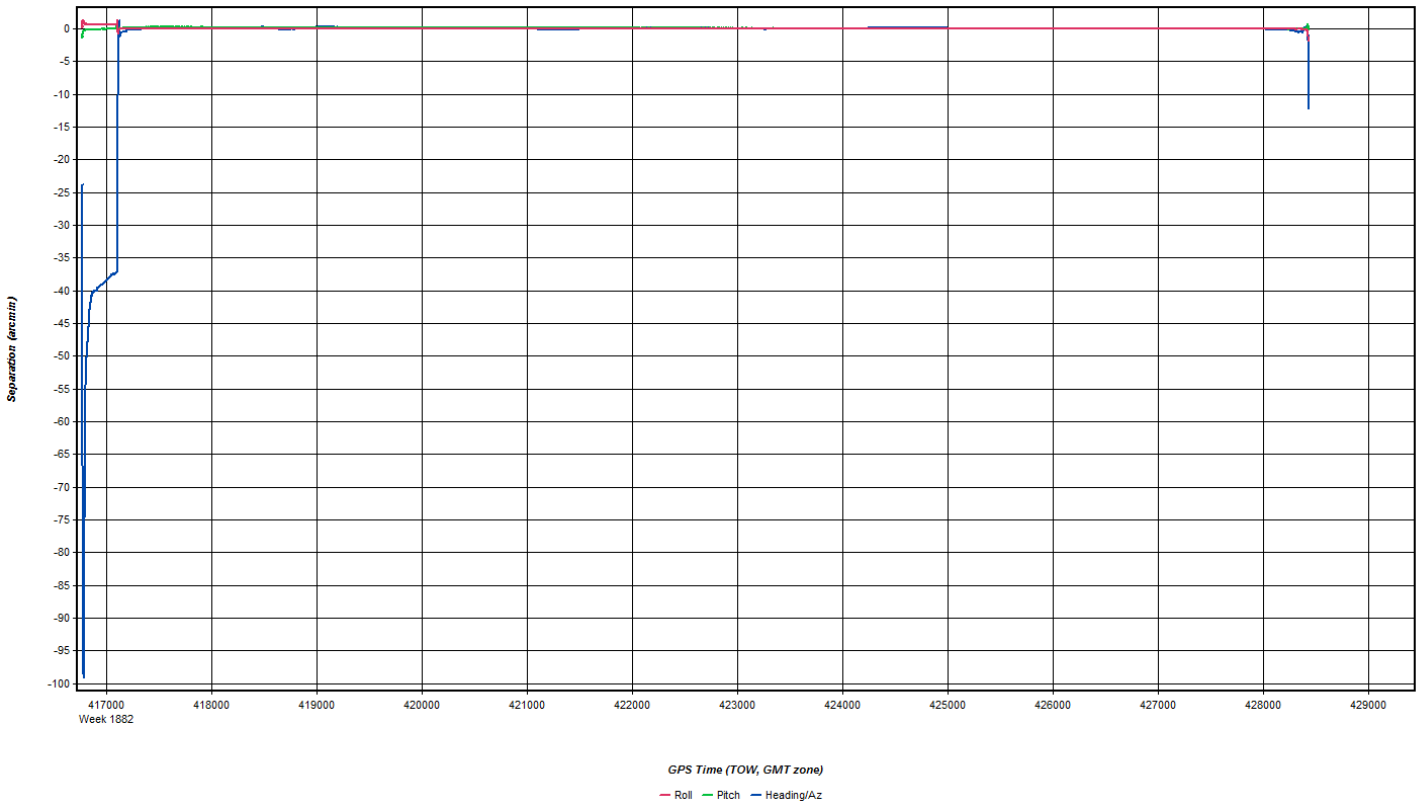

PDOP
2.00
1.95
1.90
1.85
1.80
1.75
1.70
1.65
1.60
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
417000
Week 1882
418000
419000
420000
421000
422000
423000
424000
425000
426000
427000
428000
429000
GPS Time (TOW, GMT zone)
PDOP

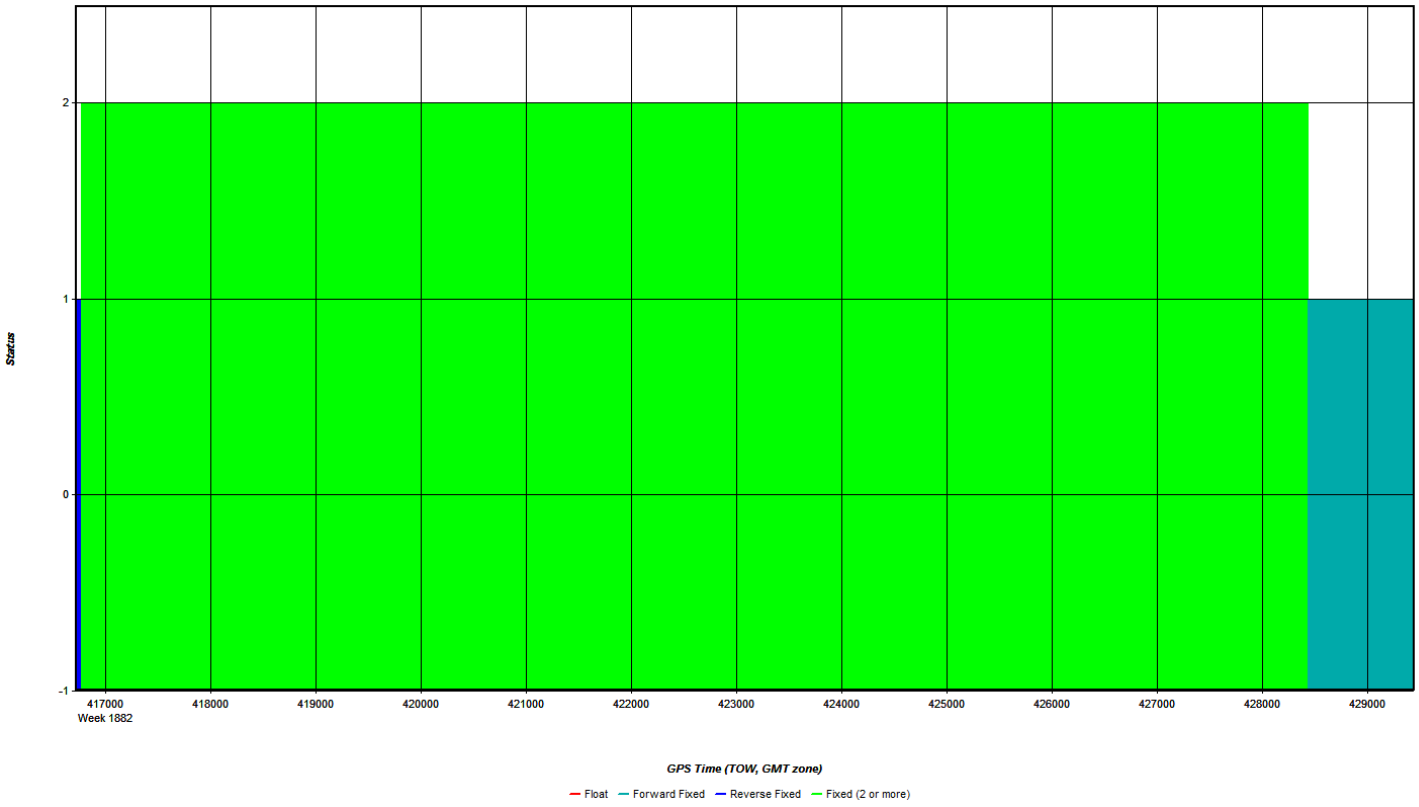

Estimated StdDev (m)
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
417000
Week 1882
418000
419000
420000
421000
422000
423000
424000
425000
426000
427000
428000
429000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

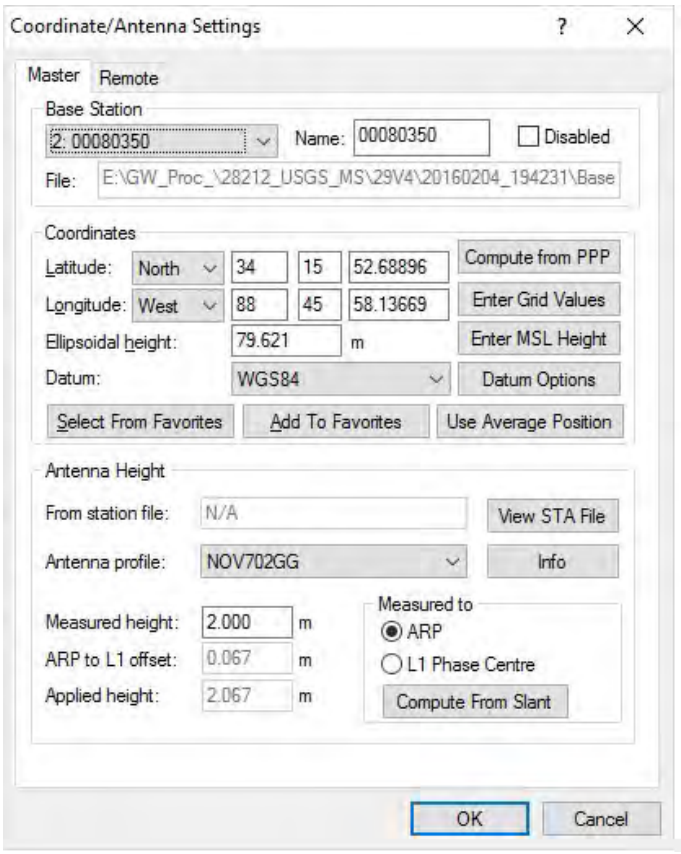

Roll & pitch (deg)
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
-28
417000
Week 1882
418000
419000
420000
421000
422000
423000
424000
425000
426000
427000
428000
429000
GPS Time (TOW, GMT zone)
Roll
Pitch

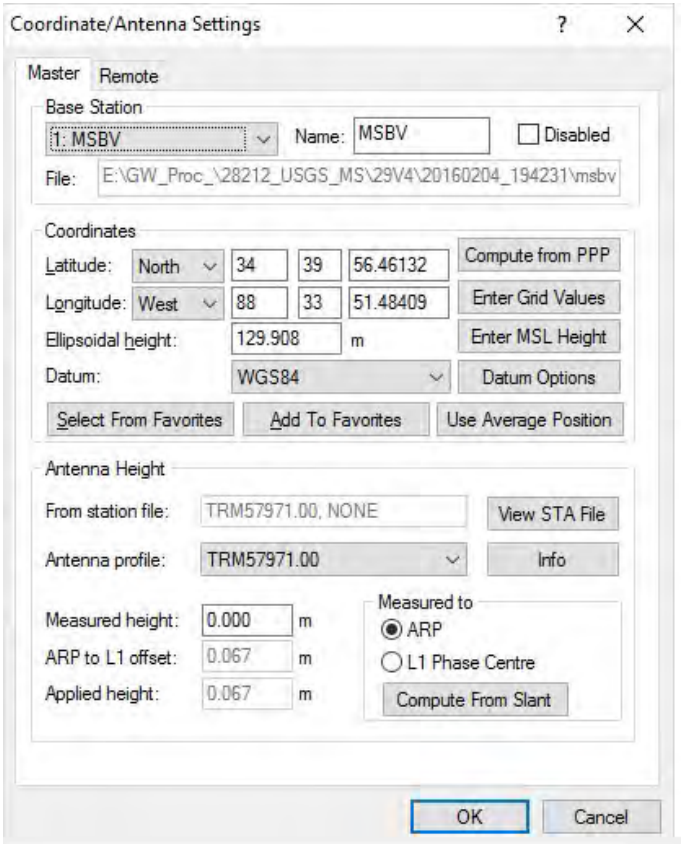

Height (m)
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
417000
Week 1882
418000
419000
420000
421000
422000
423000
424000
425000
426000
427000
428000
429000
GPS Time (TOW, GMT zone)
Height

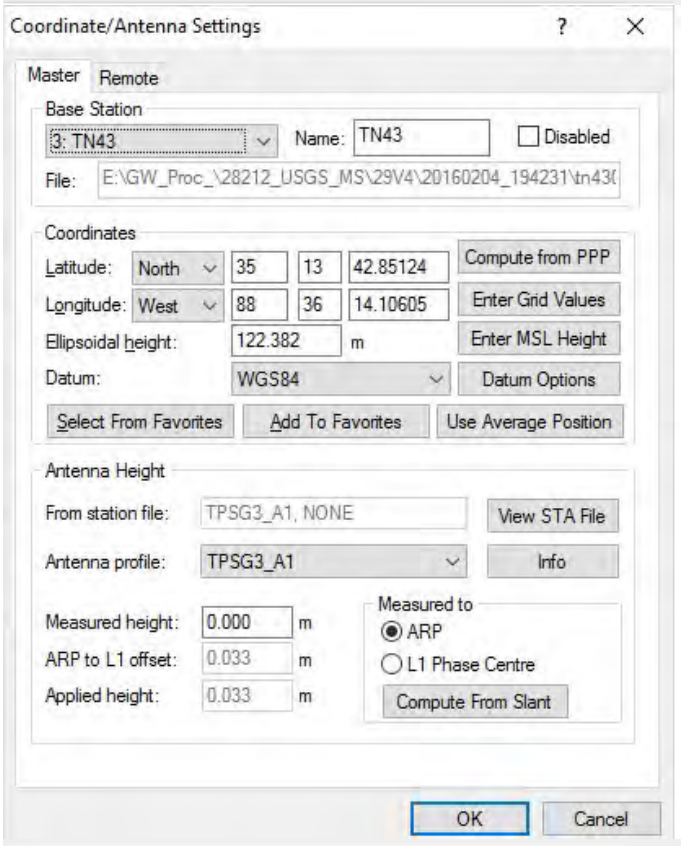

RMS (m)
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
417000
Week 1882
418000
419000
420000
421000
422000
423000
424000
425000
426000
427000
428000
429000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
-55
-60
-65
-70
-75
-80
-85
-90
-95
-100
417000
Week 1882
418000
419000
420000
421000
422000
423000
424000
425000
426000
427000
428000
429000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
417000
Week 1882
418000
419000
420000
421000
422000
423000
424000
425000
426000
427000
428000
429000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
2: 00080350
Name: 00080350
Disabled
File: E:\GW_Proc_\28212_USGS_MS\29V4\20160204_194231\Base
Coordinates
Latitude: North 34 15 52.68896
Longitude: West 88 45 58.13669
Ellipsoidal height: 79.621 m
Datum: WGS84
Compute from PPP
Enter Grid Values
Enter MSL Height
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file: N/A
View STA File
Antenna profile: NOV702GG
Info
Measured height: 2.000 m
ARP to L1 offset: 0.067 m
Applied height: 2.067 m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSBV
Name: MSBV
Disabled
File: E:\GW_Proc_\28212_USGS_MS\29V4\20160204_194231\msbv
Coordinates
Latitude: North 34 39 56.46132
Longitude: West 88 33 51.48409
Ellipsoidal height: 129.908 m
Datum: WGS84
Compute from PPP
Enter Grid Values
Enter MSL Height
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file: TRM57971.00, NONE
Antenna profile: TRM57971.00
View STA File
Info
Measured height: 0.000 m
ARP to L1 offset: 0.067 m
Applied height: 0.067 m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel


Coordinate/Antenna Settings
Master
Remote
Base Station
3: TN43
Name: TN43
Disabled
File: E:\GW_Proc_\28212_USGS_MS\29V4\20160204_194231\tn43(
Coordinates
Latitude: North 35 13 42.85124
Longitude: West 88 36 14.10605
Ellipsoidal height: 122.382 m
Datum: WGS84
Compute from PPP
Enter Grid Values
Enter MSL Height
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file: TPSG3_A1, NONE
Antenna profile: TPSG3_A1
View STA File
Info
Measured height: 0.000 m
ARP to L1 offset: 0.033 m
Applied height: 0.033 m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log

OPERATORS FLIGHT LOG SN7178_020416B

YYYYMMDD_TIME(GPS)

MISSION: v 20160204_194231 | DATE: 2/4/2015 | LEICA ALS-70 | DI2

PILOT: Smelser | OPERATOR: Iverson | AIRCRAFT: 22GE

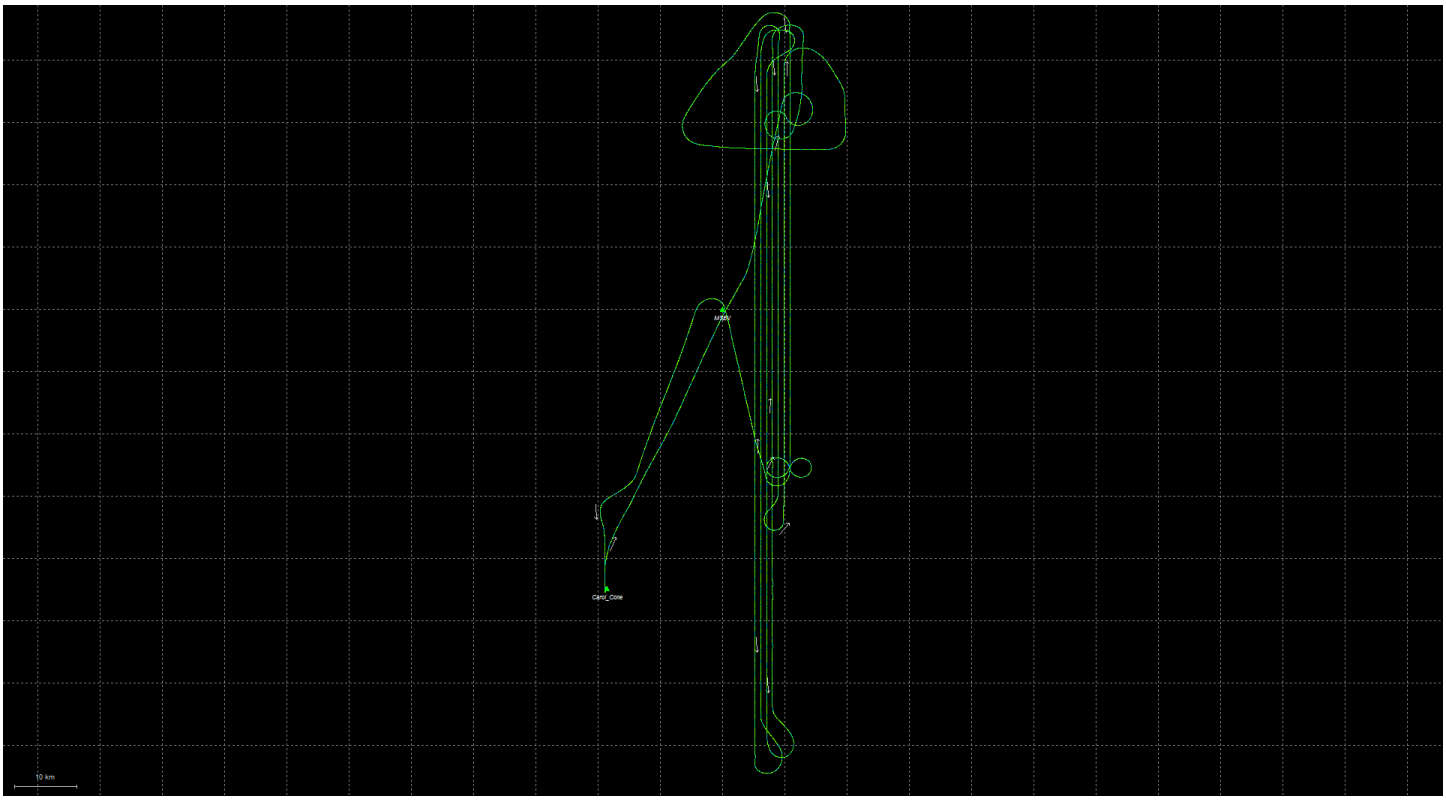
PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (ft)	TIME START	TIME STOP	MM70 DRIVE	REMARKS (MPiA-Disabled/Enabled) (WF Settings)
28212										1946		2	static B 8585.3 Hobbs
MS-US65										1956			Take off KTUP
										2007			cores MSBV
										2014	2020		figure 8
	268	S		166	53	40	273	255	6788	2029	2041	2	
	267	N		156					6791	2045	2058		
	266	S		169					6781	2102	2113		
	265	N		154					6771	2117	2130		
	264	S		169					6771	2134	2146		
	263	N		152					6765	2151	2209		
	XF	W		164					6790	2208	2213		cross flight
	262	S		170					6765	2221	2232		
										2233	2237		figure 8
										2244			cores MSBV
											2257		Land KTUP 8588.3 Hobbs
											2305		static B

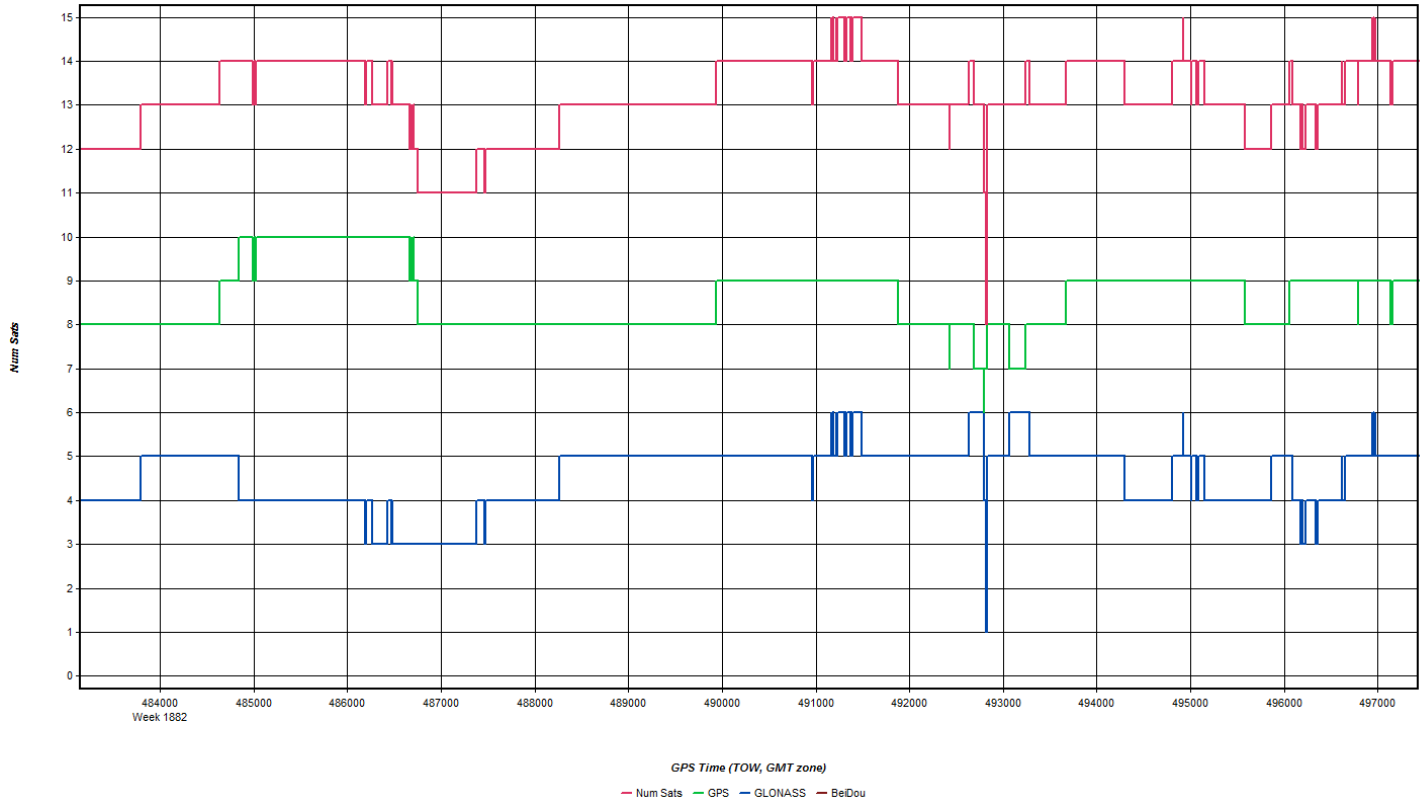
STATUS	TOTAL LINES	AIRCRAFT FLOWN	AIRCRAFT LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	NOTES: Base setat KTUP
⊘ 28212		7		2.1	.9	B	1946	2305	ShipDrive; RAW_29V4
○						WX			BackupDrive; 2490
○									

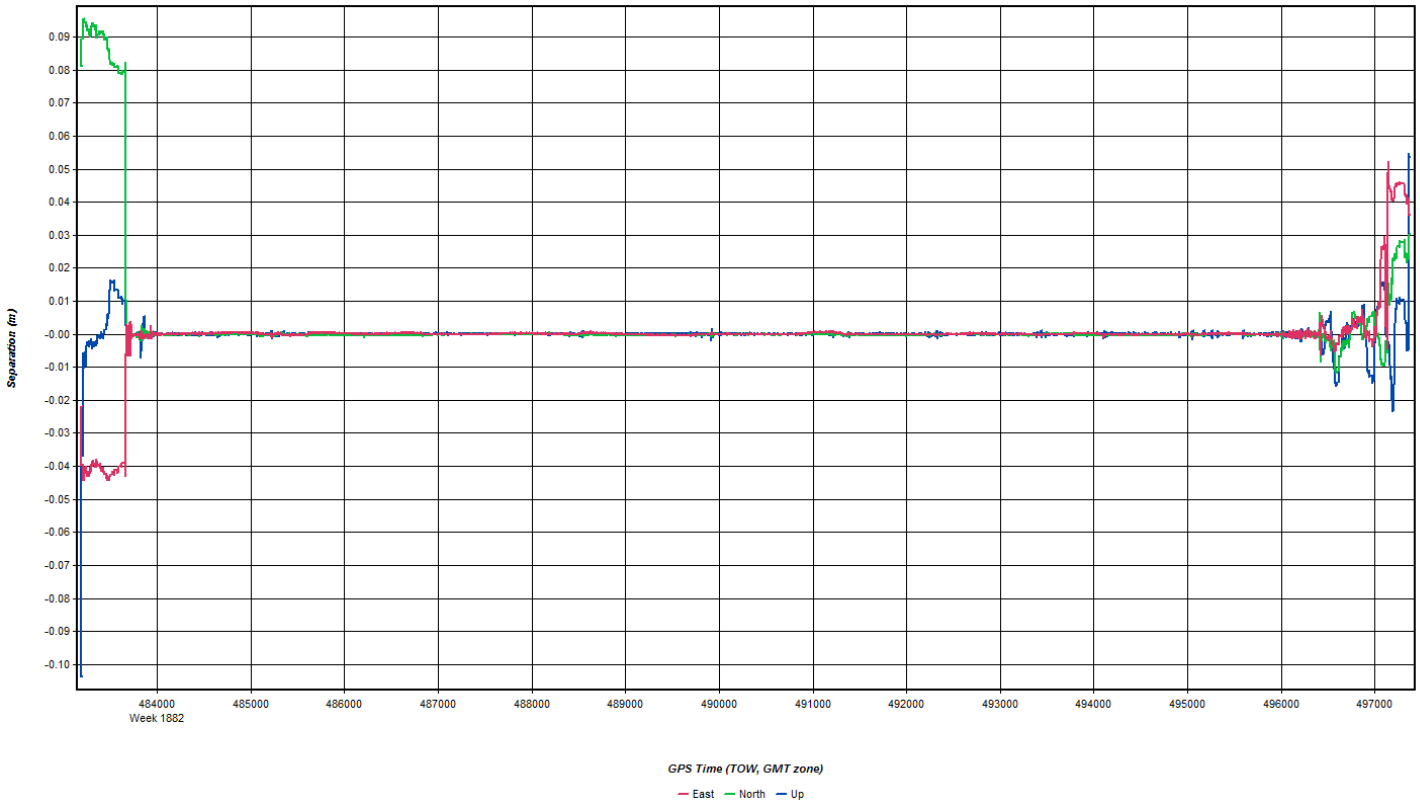
Quantumspatial, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 **FAX: 888-253-6695** E-Mail: flight-log-distribution-list@aerometric.com

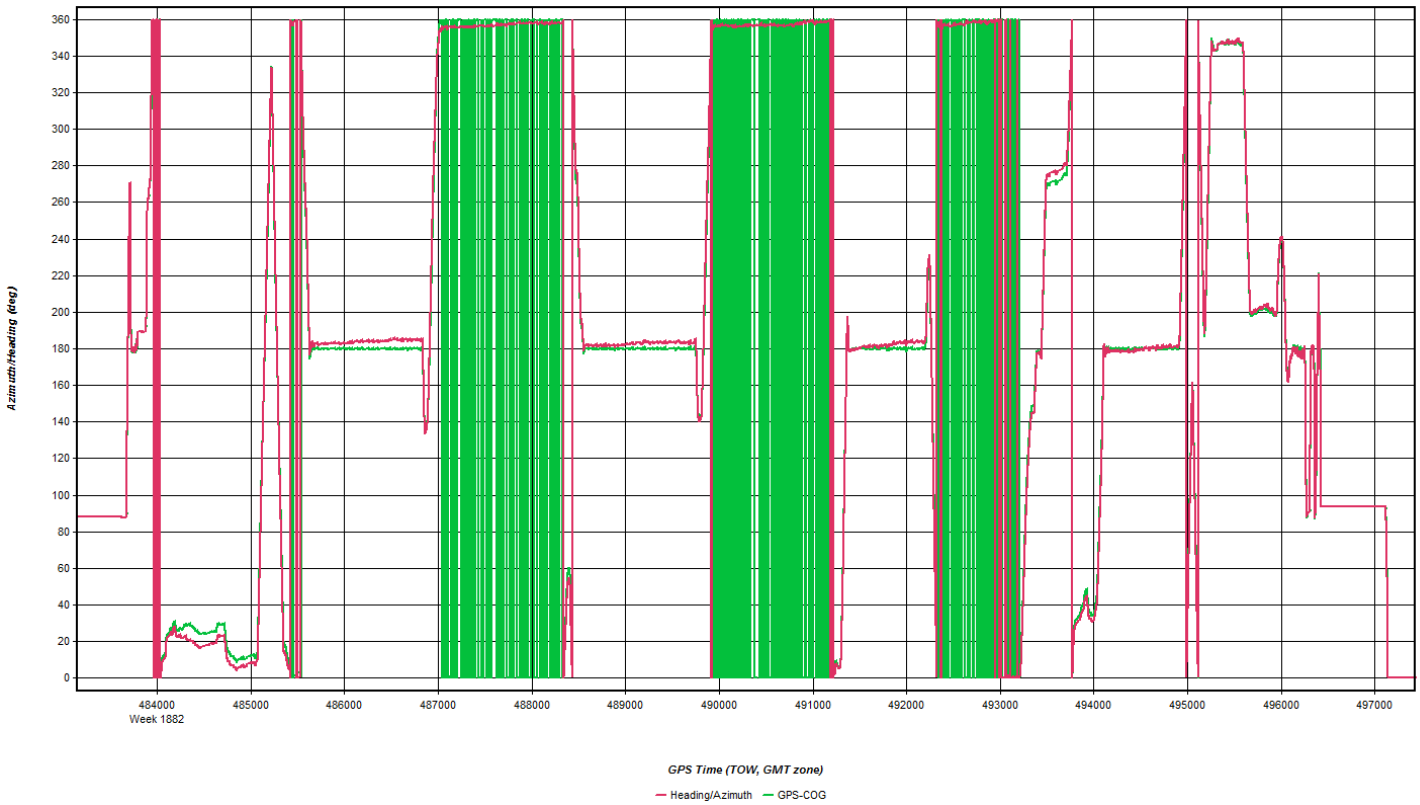
North AOI - UTM Zone 16

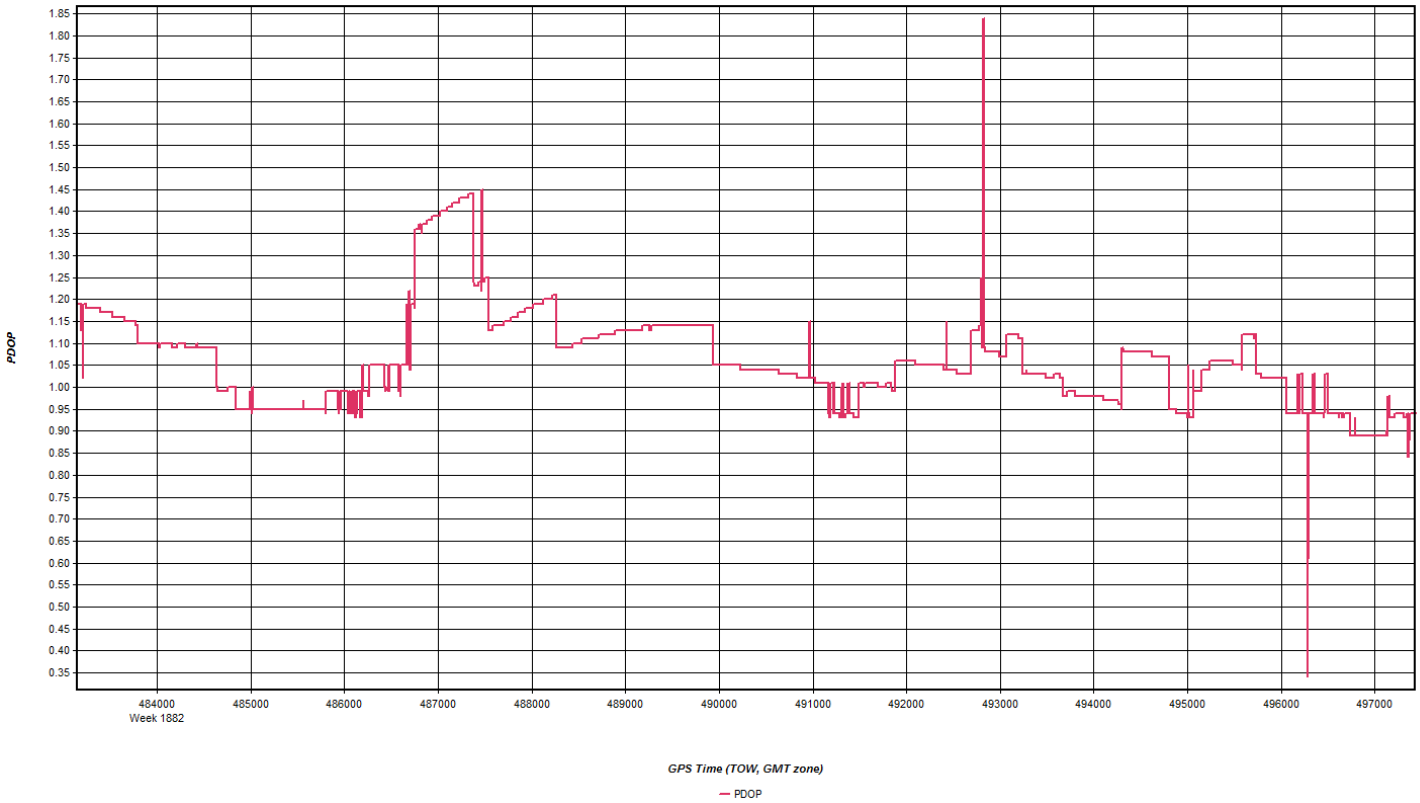
Feb 5, 2016-A (N22GE, SN7178)


MBAY
Base_Cone
10 km

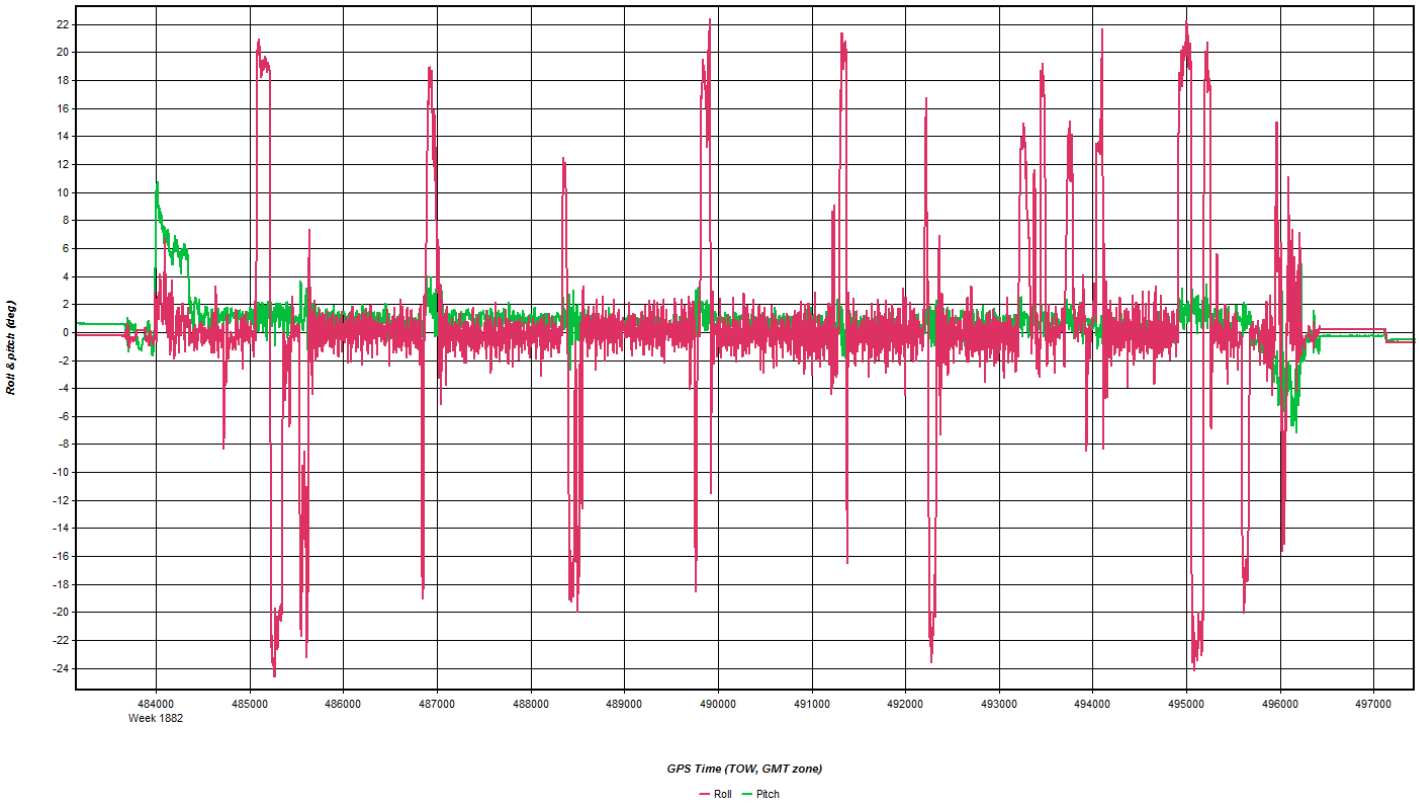

Num Sats
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
484000
Week 1882
485000
486000
487000
488000
489000
490000
491000
492000
493000
494000
495000
496000
497000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

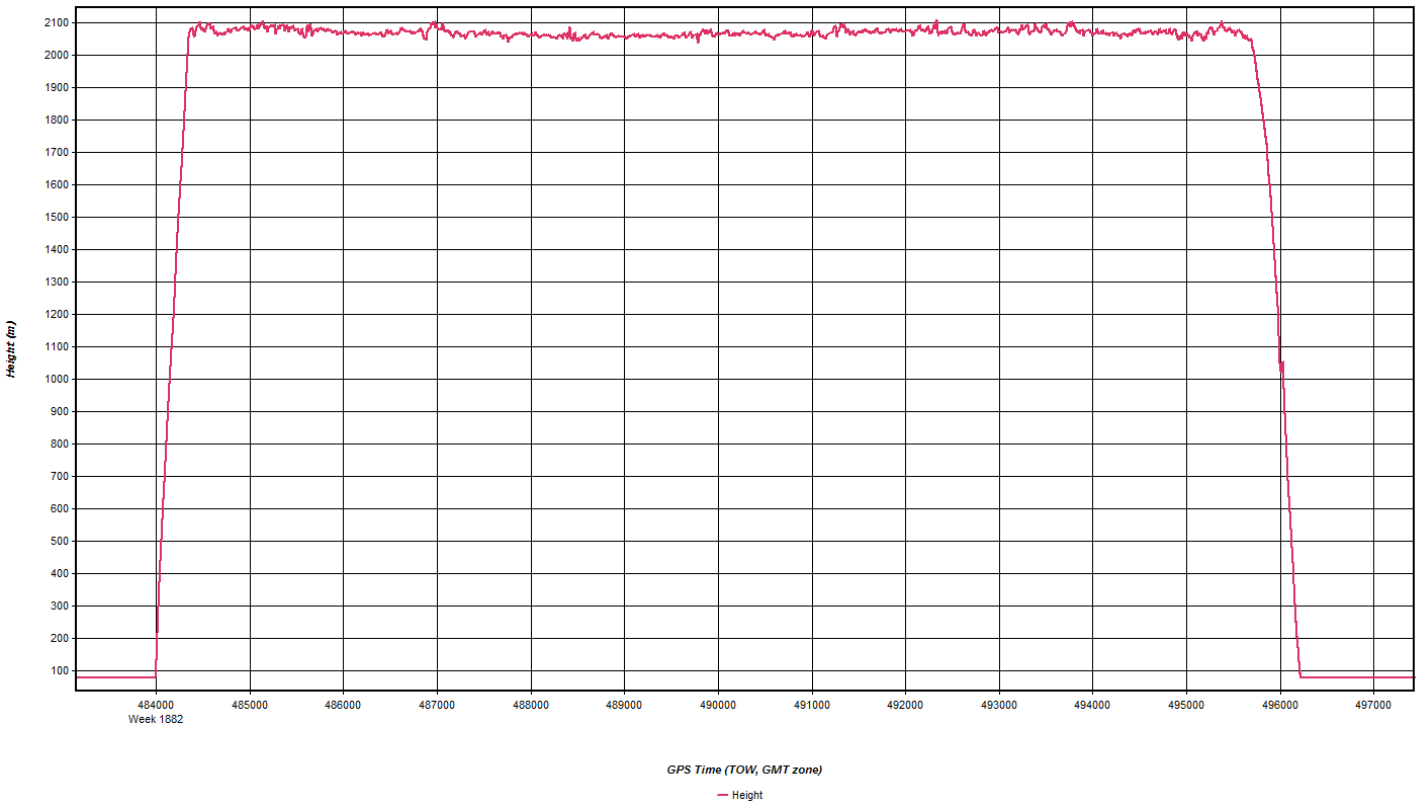

Separation (m)
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
-0.00
-0.01
-0.02
-0.03
-0.04
-0.05
-0.06
-0.07
-0.08
-0.09
-0.10
484000
Week 1882
485000
486000
487000
488000
489000
490000
491000
492000
493000
494000
495000
496000
497000
GPS Time (TOW, GMT zone)
East
North
Up

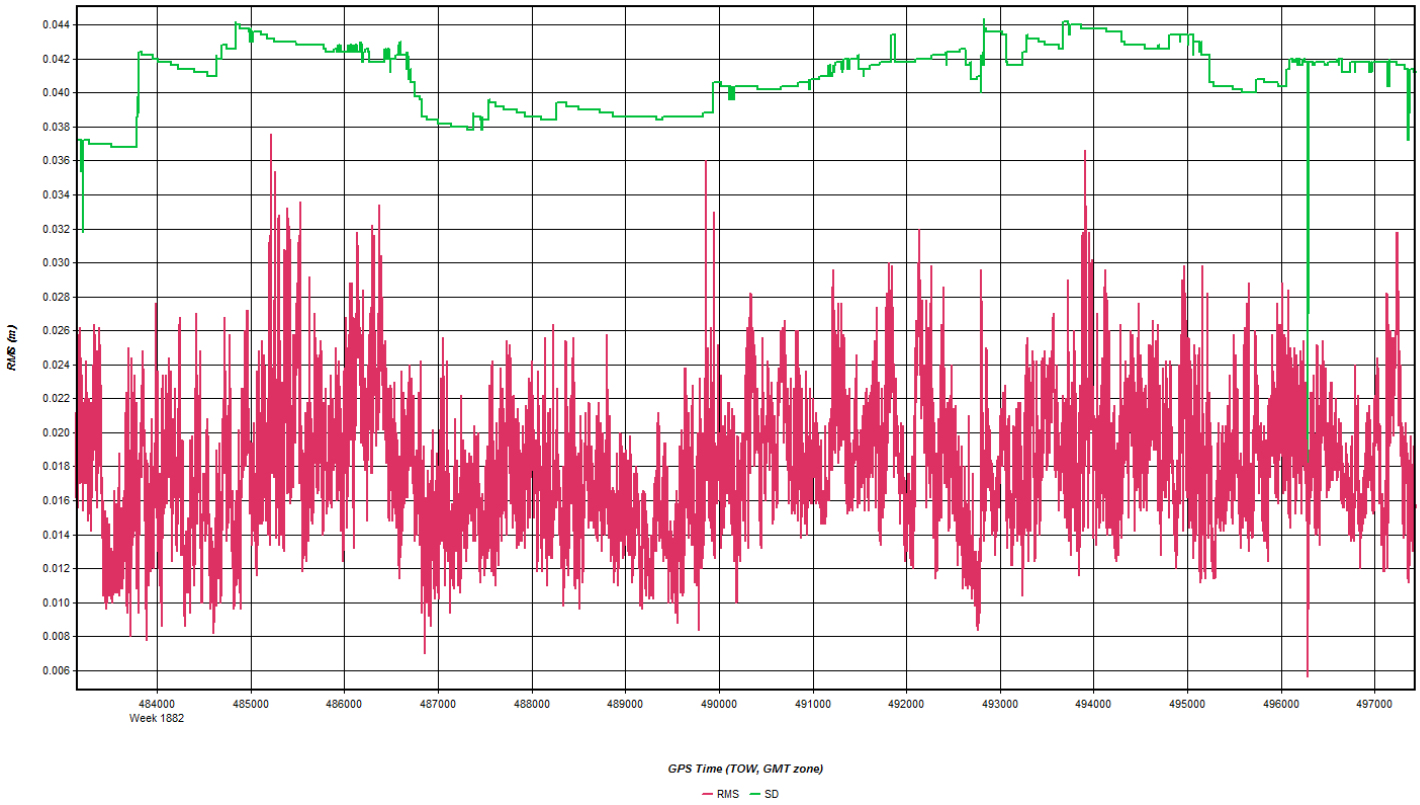

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
484000
Week 1882
485000
486000
487000
488000
489000
490000
491000
492000
493000
494000
495000
496000
497000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

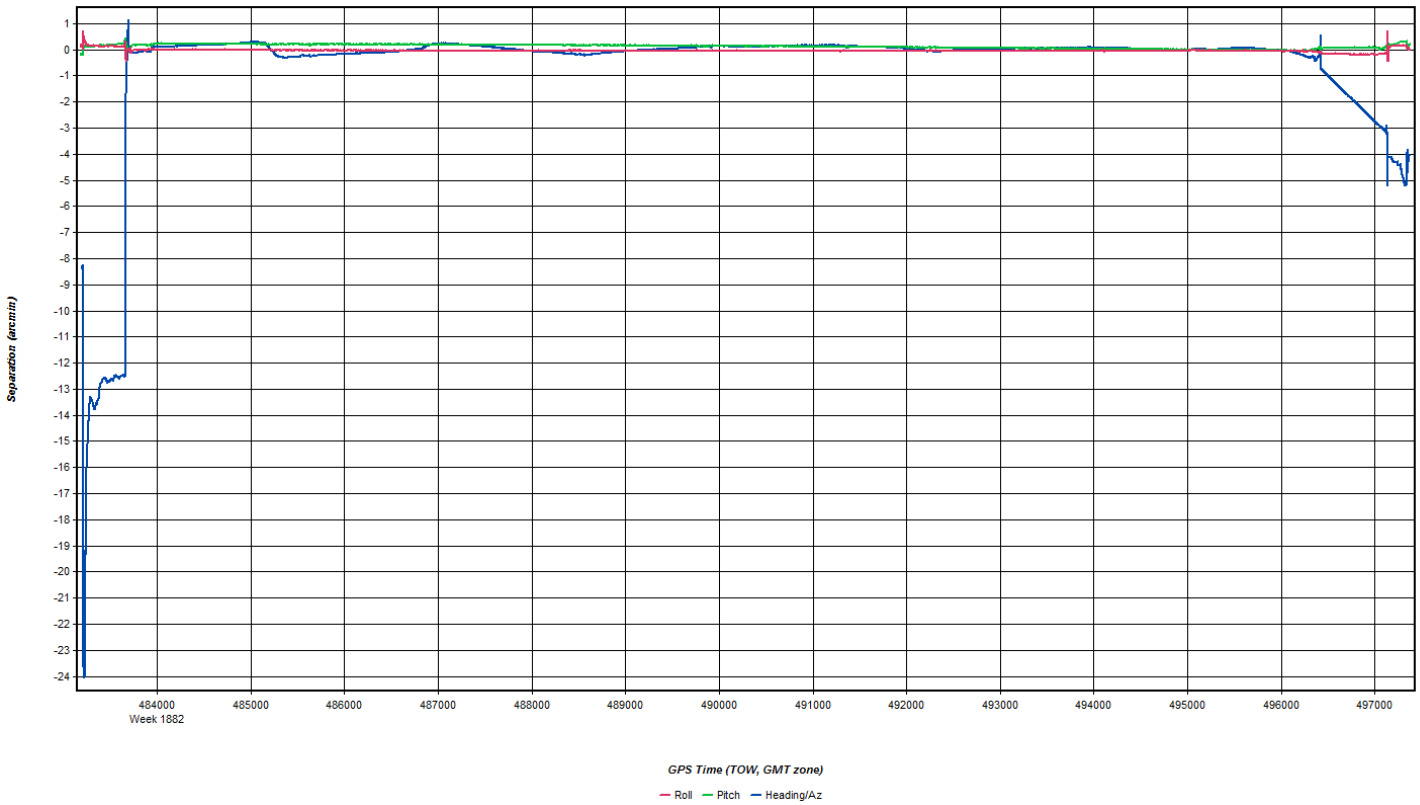

PDOP
1.85
1.80
1.75
1.70
1.65
1.60
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.55
0.50
0.45
0.40
0.35
484000
Week 1882
485000
486000
487000
488000
489000
490000
491000
492000
493000
494000
495000
496000
497000
GPS Time (TOW, GMT zone)
PDOP

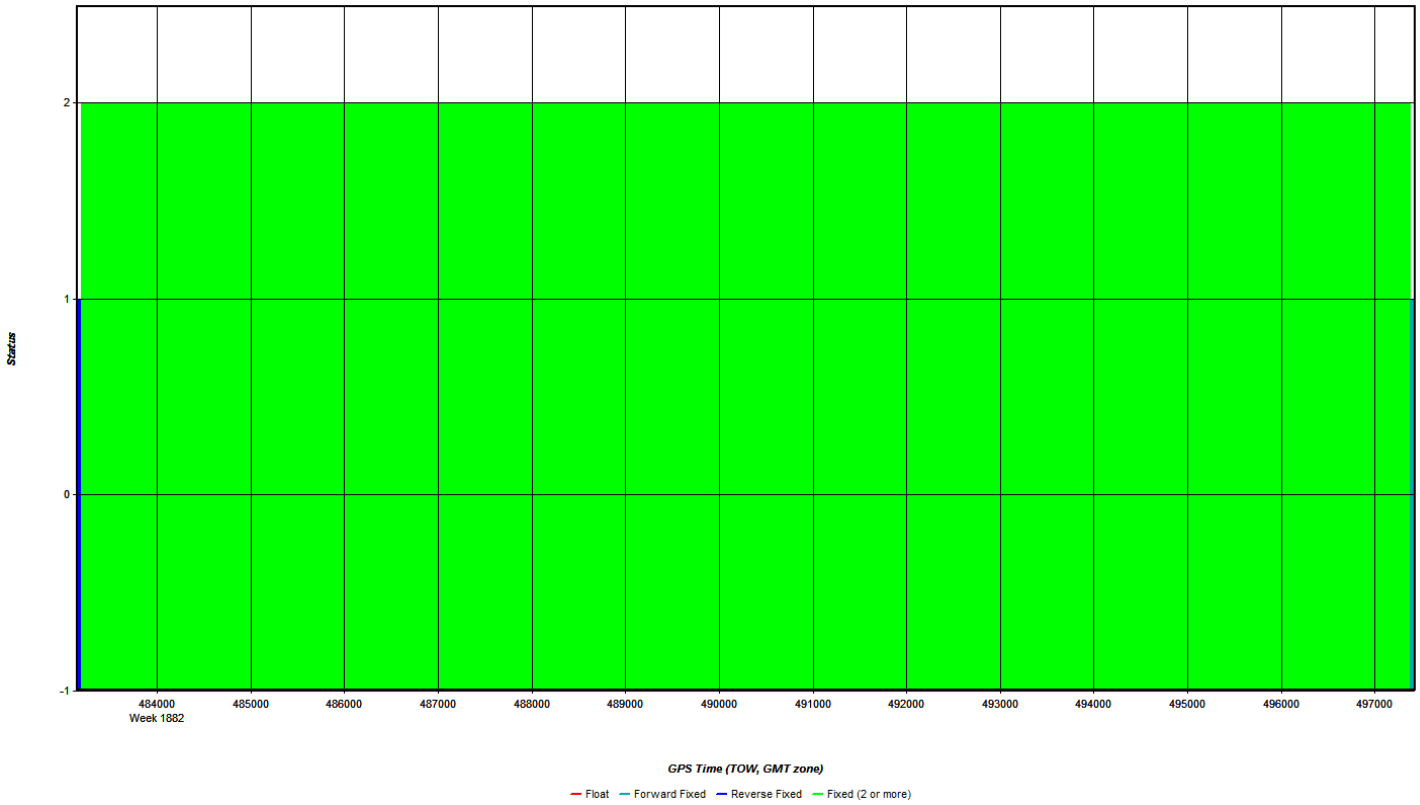

Estimated StdDev (m)
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
484000
Week 1882
485000
486000
487000
488000
489000
490000
491000
492000
493000
494000
495000
496000
497000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

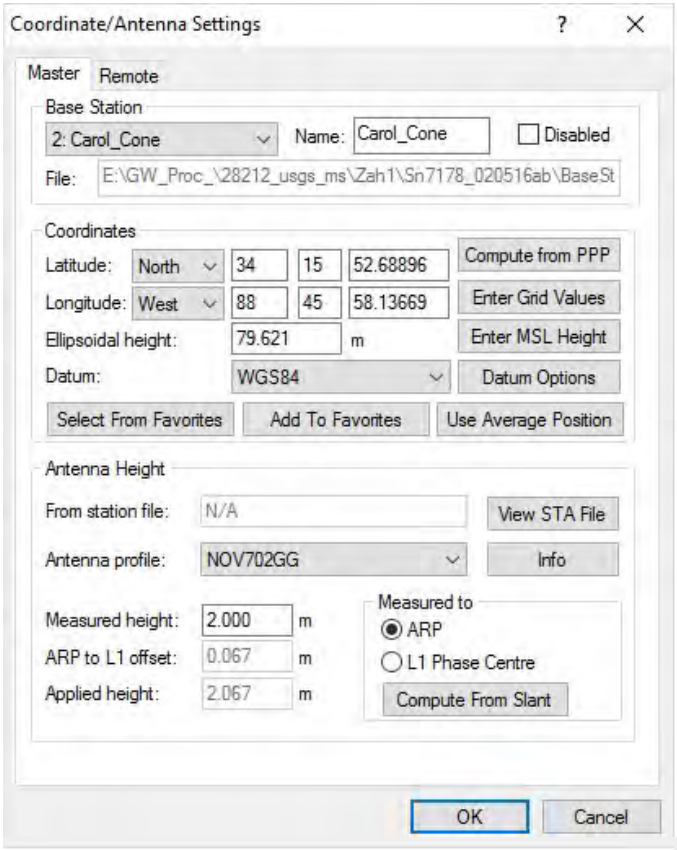

Roll & pitch (deg)
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
484000
Week 1882
485000
486000
487000
488000
489000
490000
491000
492000
493000
494000
495000
496000
497000
GPS Time (TOW, GMT zone)
Roll
Pitch

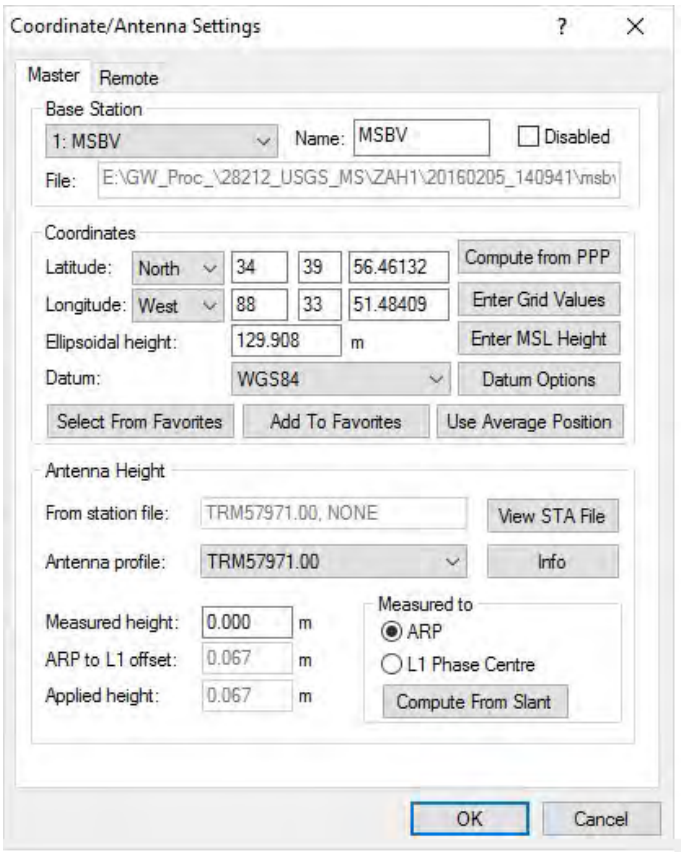

Height (m)
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
484000
Week 1882
485000
486000
487000
488000
489000
490000
491000
492000
493000
494000
495000
496000
497000
GPS Time (TOW, GMT zone)
Height


RMS (m)
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
484000
Week 1882
485000
486000
487000
488000
489000
490000
491000
492000
493000
494000
495000
496000
497000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
1
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15
-16
-17
-18
-19
-20
-21
-22
-23
-24
484000
Week 1882
485000
486000
487000
488000
489000
490000
491000
492000
493000
494000
495000
496000
497000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
484000
Week 1882
485000
486000
487000
488000
489000
490000
491000
492000
493000
494000
495000
496000
497000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
2: Carol_Cone
Name:
Carol_Cone
Disabled
File:
E:\GW_Proc_\28212_usgs_ms\Zah1\Sn7178_020516ab\BaseSt
Coordinates
Latitude:
North
34
15
52.68896
Compute from PPP
Longitude:
West
88
45
58.13669
Enter Grid Values
Ellipsoidal height:
79.621
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
N/A
View STA File
Antenna profile:
NOV702GG
Info
Measured height:
2.000
m
ARP to L1 offset:
0.067
m
Applied height:
2.067
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSBV
Name: MSBV
Disabled
File: E:\GW_Proc_\28212_USGS_MS\ZAH1\20160205_140941\msbv
Coordinates
Latitude: North 34 39 56.46132
Longitude: West 88 33 51.48409
Ellipsoidal height: 129.908 m
Datum: WGS84
Compute from PPP
Enter Grid Values
Enter MSL Height
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file: TRM57971.00, NONE
View STA File
Antenna profile: TRM57971.00
Info
Measured height: 0.000 m
ARP to L1 offset: 0.067 m
Applied height: 0.067 m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log

OPERATORS FLIGHT LOG SN7178_020516A

YYYYMMDD_TIME(GPS)

MISSION: v 20160205_140941 | DATE: 2/5/2016 | LEICA ALS-70 | DT1

PILOT: Smelser | OPERATOR: Iverson | AIRCRAFT: 226E

PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS (MPiA-Disabled/Enabled) (WF Settings)
28212										1414		2	static A 85883 Hobbs
MS-USGS										1426			Take OFF KTUP
										1437			cores MSBV
					53	40	273	255		1444	1449	2	figure 8
		[redacted]			53	40	273	255	[redacted]			2	
		255	S	175	53	40	273	255	6722	1454	1513	2	
		254	N	152					6722	1517	1538		
		253	S	168					6722	1543	1603		
		252	N	159					6722	1606	1626		
		256	S	167					6778	1630	1642		
		257	N	162					6775	1647	1659		
		XF	W	176					6790	1704	1708		cross flight
		258	S	169					6785	1716	1728		[redacted]
										1728	1732		[redacted] figure 8
										1739			[redacted] cores MSBV [redacted]
										1754			[redacted] Land KTUP 8591.7 Hobbs
											1759		static A

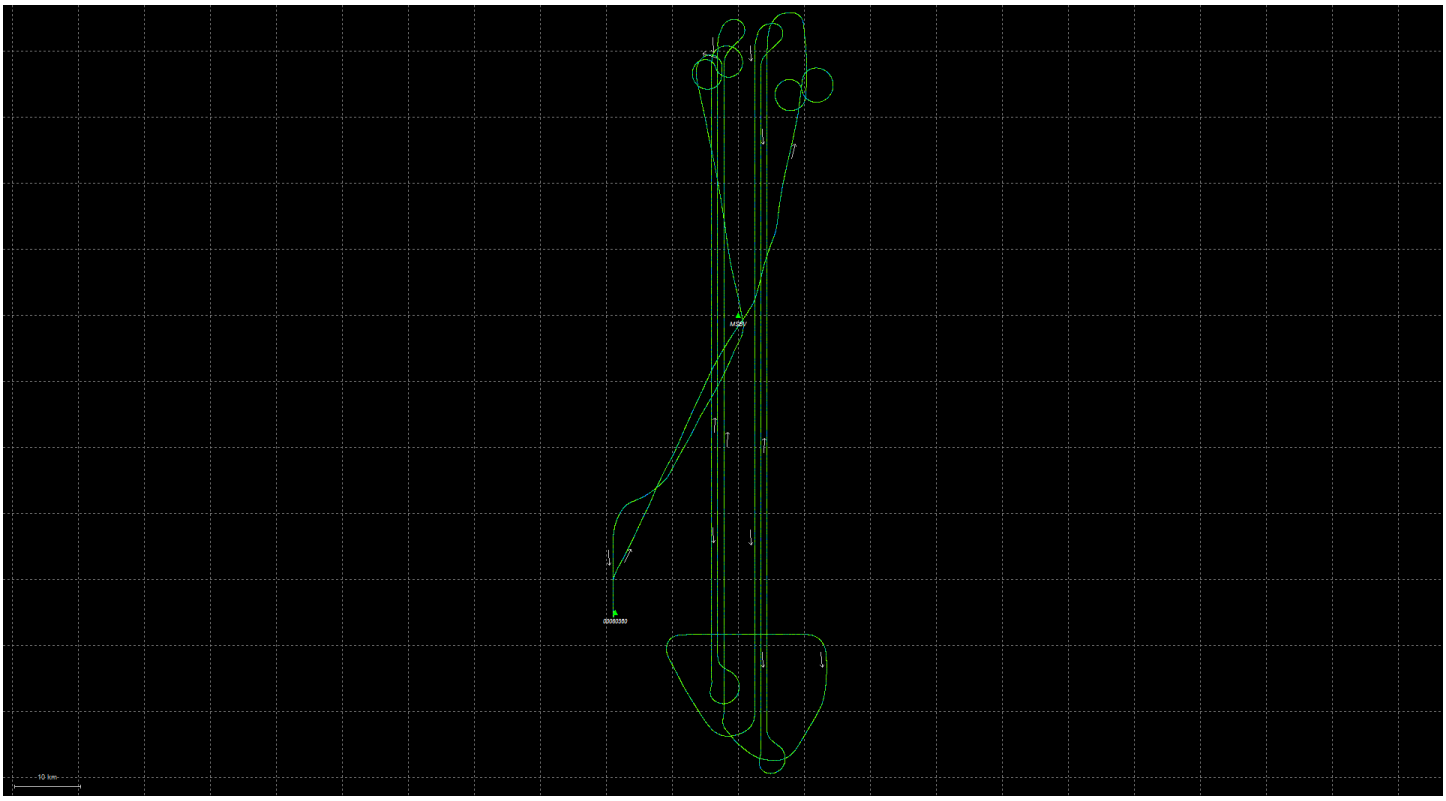
STATUS	TOTAL LINES	AIRCRAFT FLOWN	AIRCRAFT LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP
⊘	28212	14		5.1	1.6	A	1414	1759
○						WX		
○								

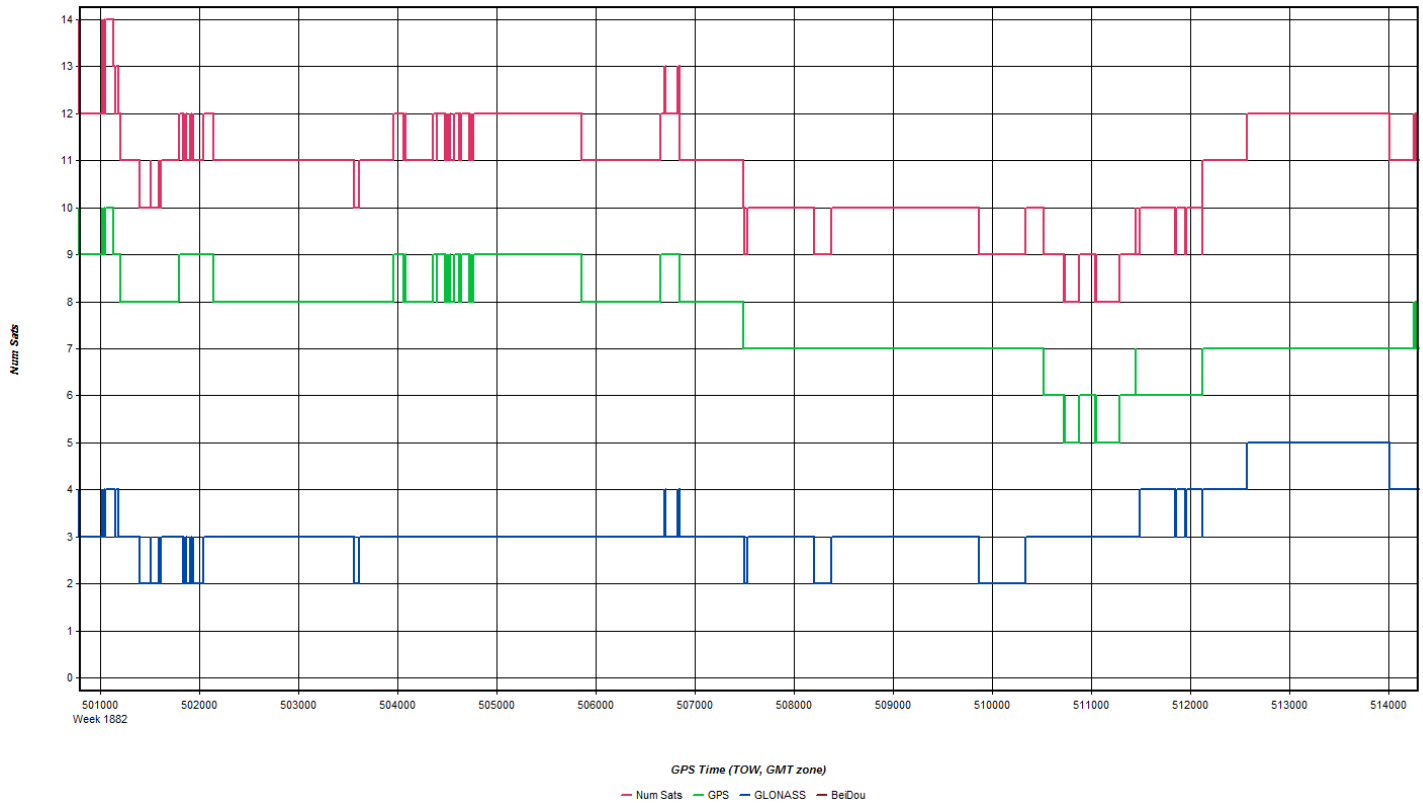
NOTES: Base set at KTUP
ship Drive: RAW_ZAH1
Backup Drive: 2490

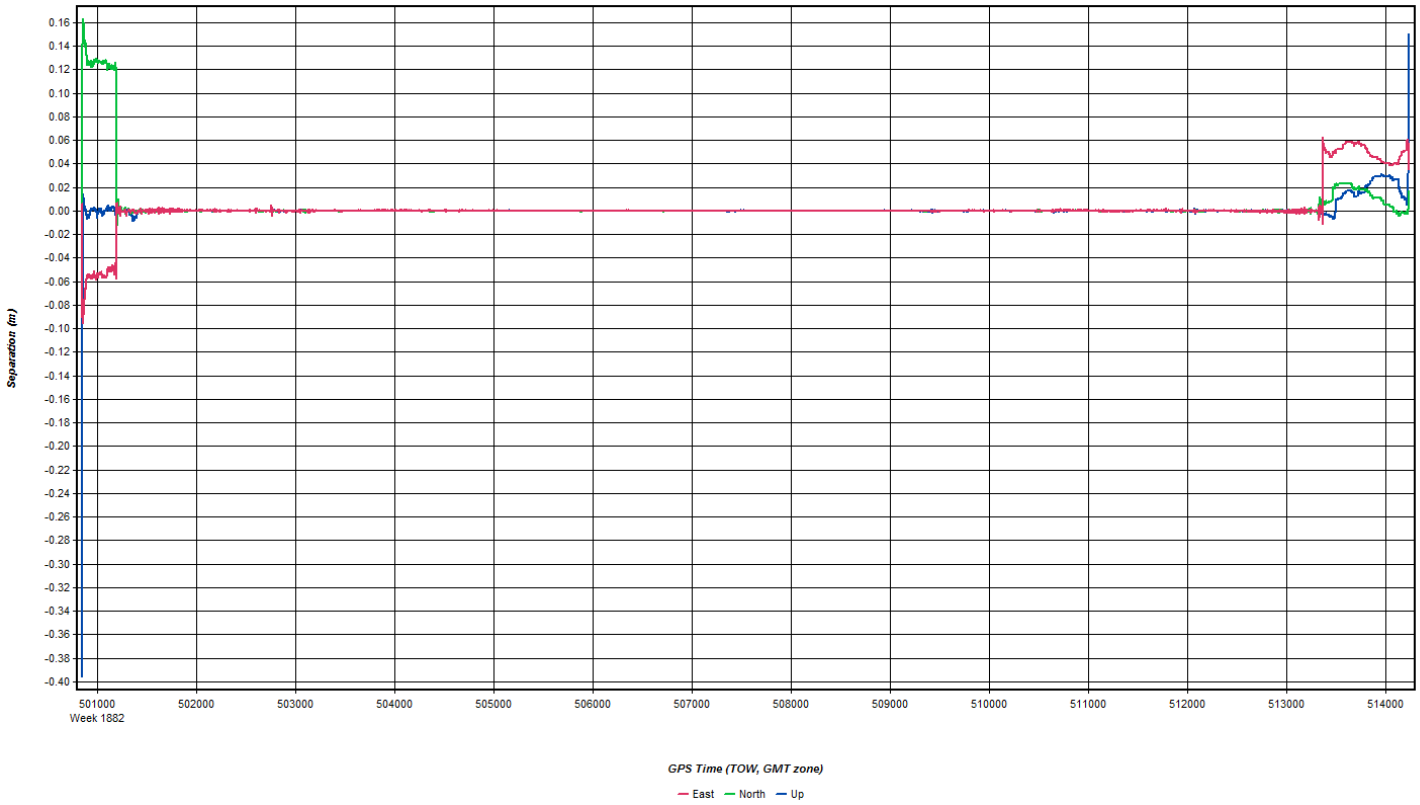
AERO-METRIC, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@aerometric.com

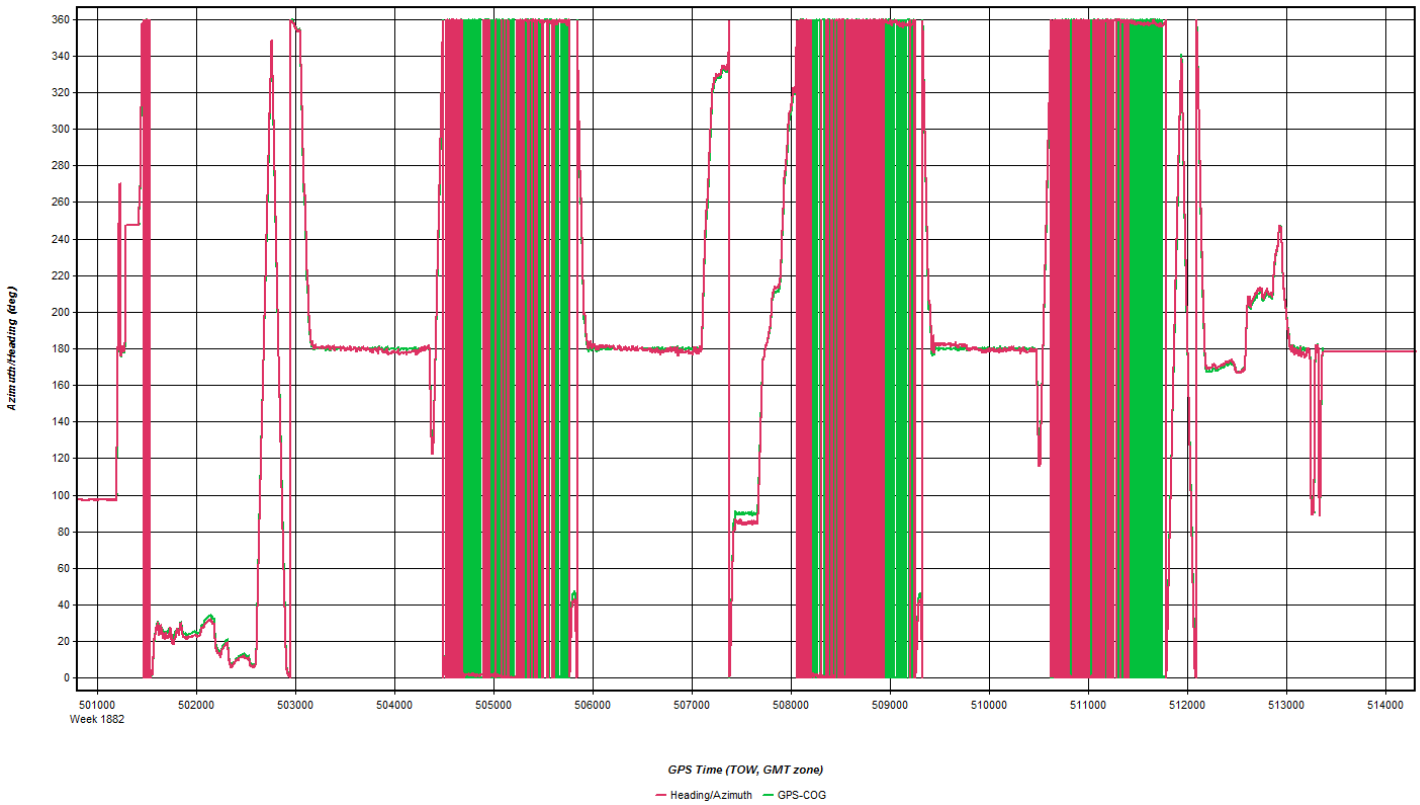
North AOI - UTM Zone 16

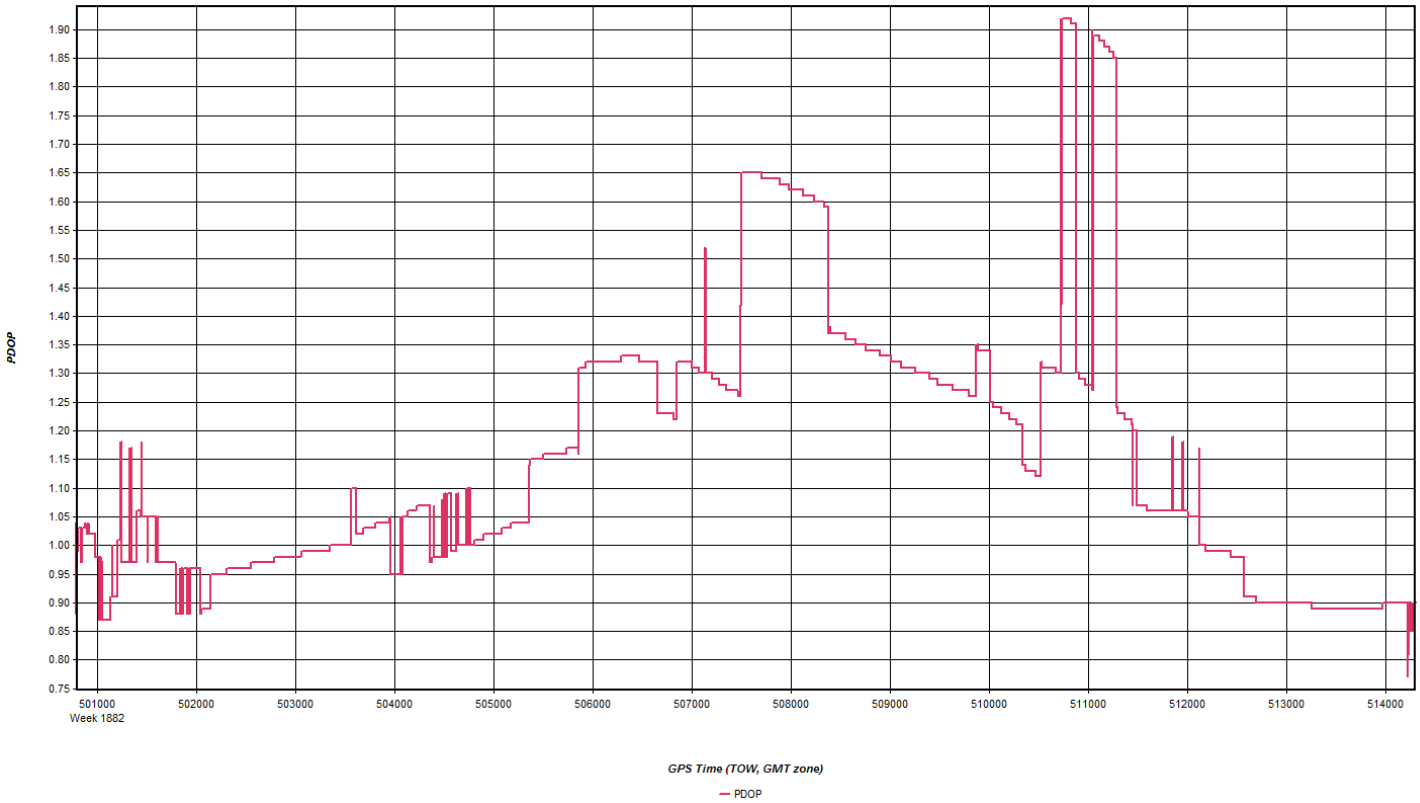
Feb 5, 2016-B (N22GE, SN7178)

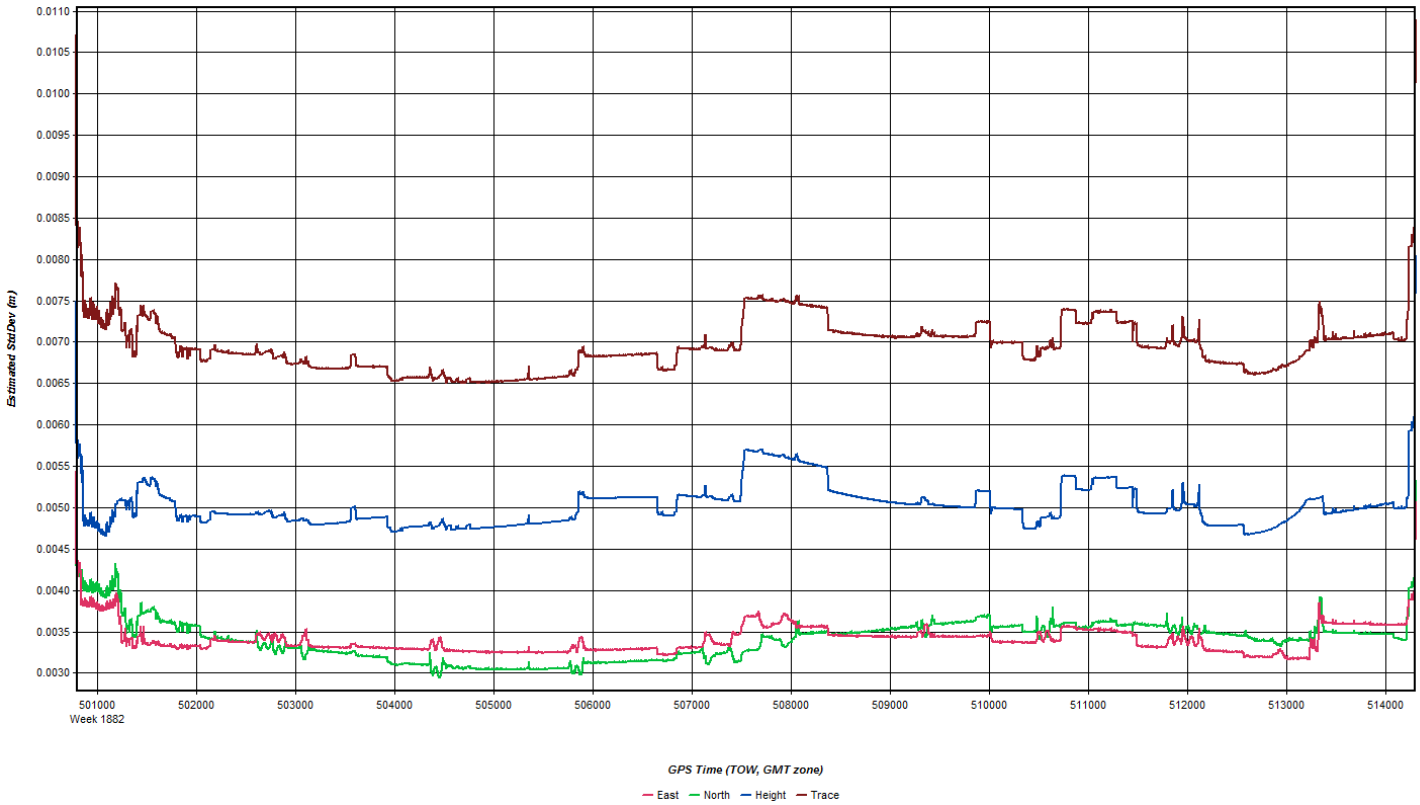


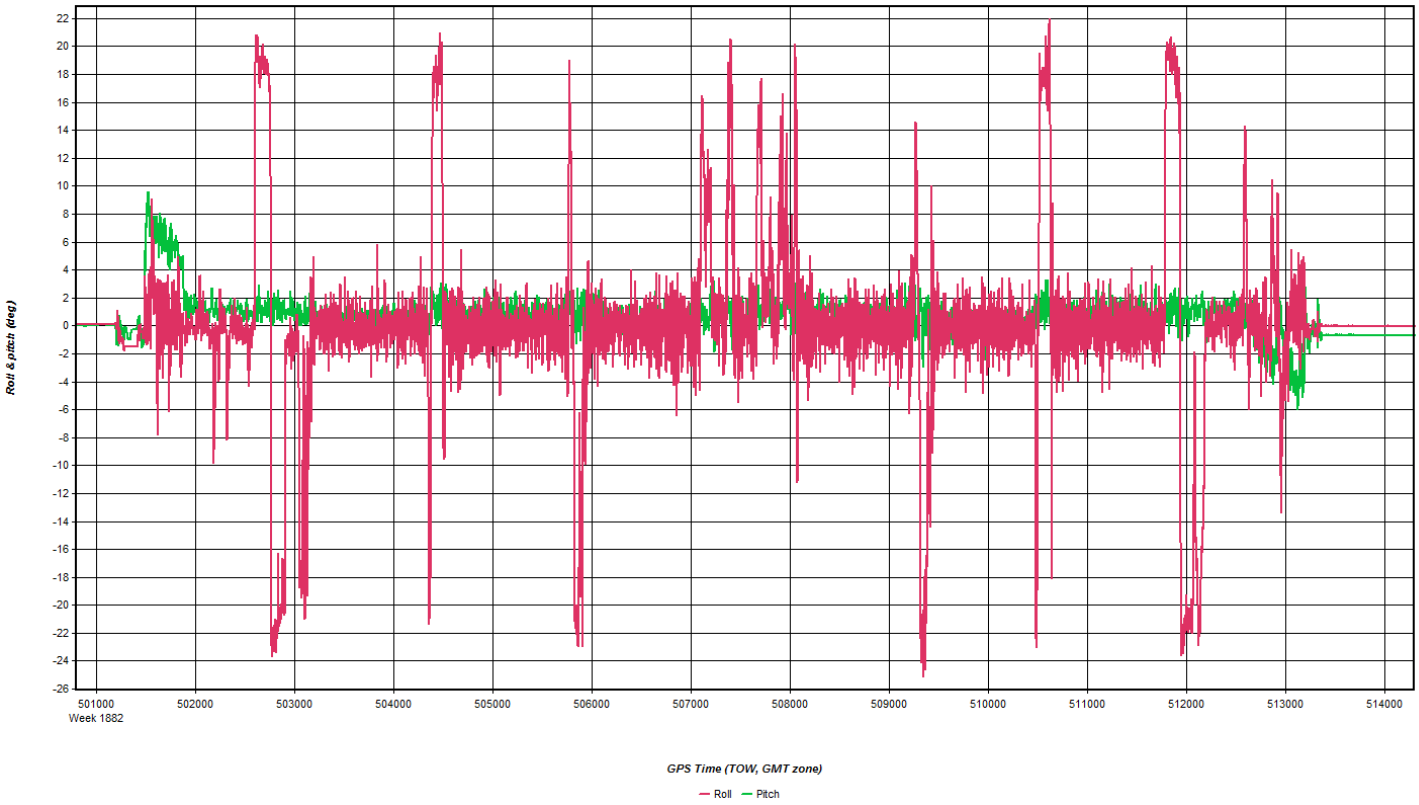

Num Sats
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
501000
Week 1882
502000
503000
504000
505000
506000
507000
508000
509000
510000
511000
512000
513000
514000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

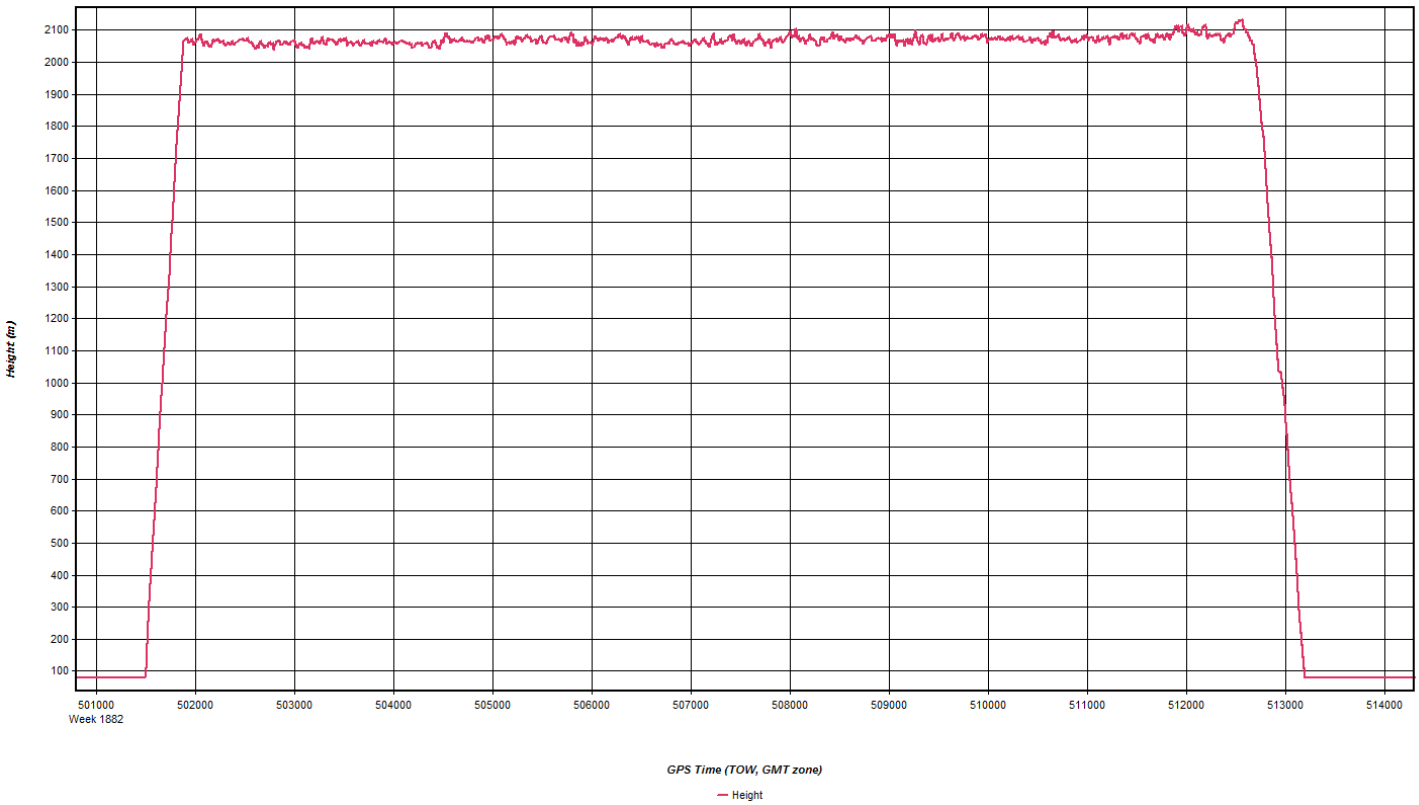

Separation (m)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
-0.10
-0.12
-0.14
-0.16
-0.18
-0.20
-0.22
-0.24
-0.26
-0.28
-0.30
-0.32
-0.34
-0.36
-0.38
-0.40
501000
Week 1882
502000
503000
504000
505000
506000
507000
508000
509000
510000
511000
512000
513000
514000
GPS Time (TOW, GMT zone)
East
North
Up

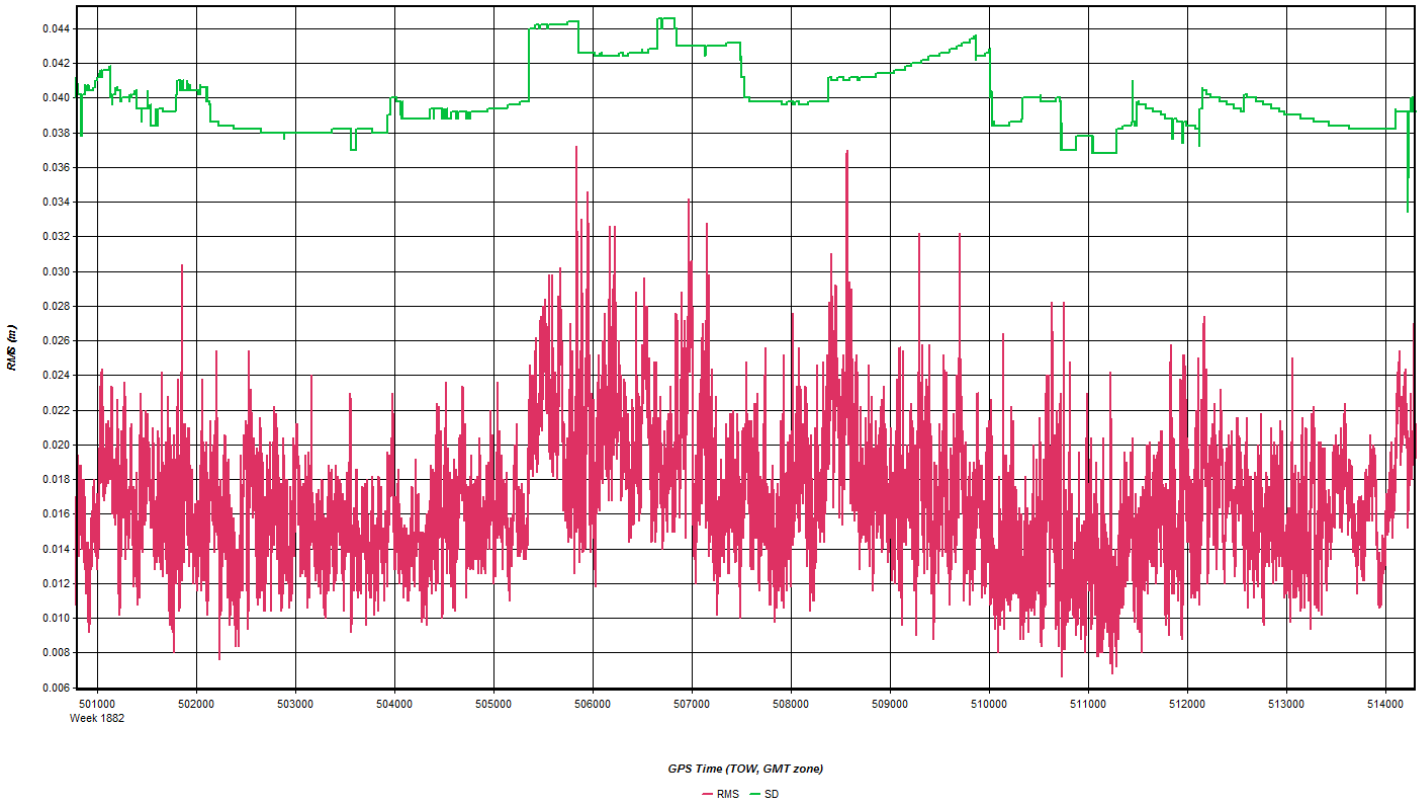

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
501000
Week 1882
502000
503000
504000
505000
506000
507000
508000
509000
510000
511000
512000
513000
514000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

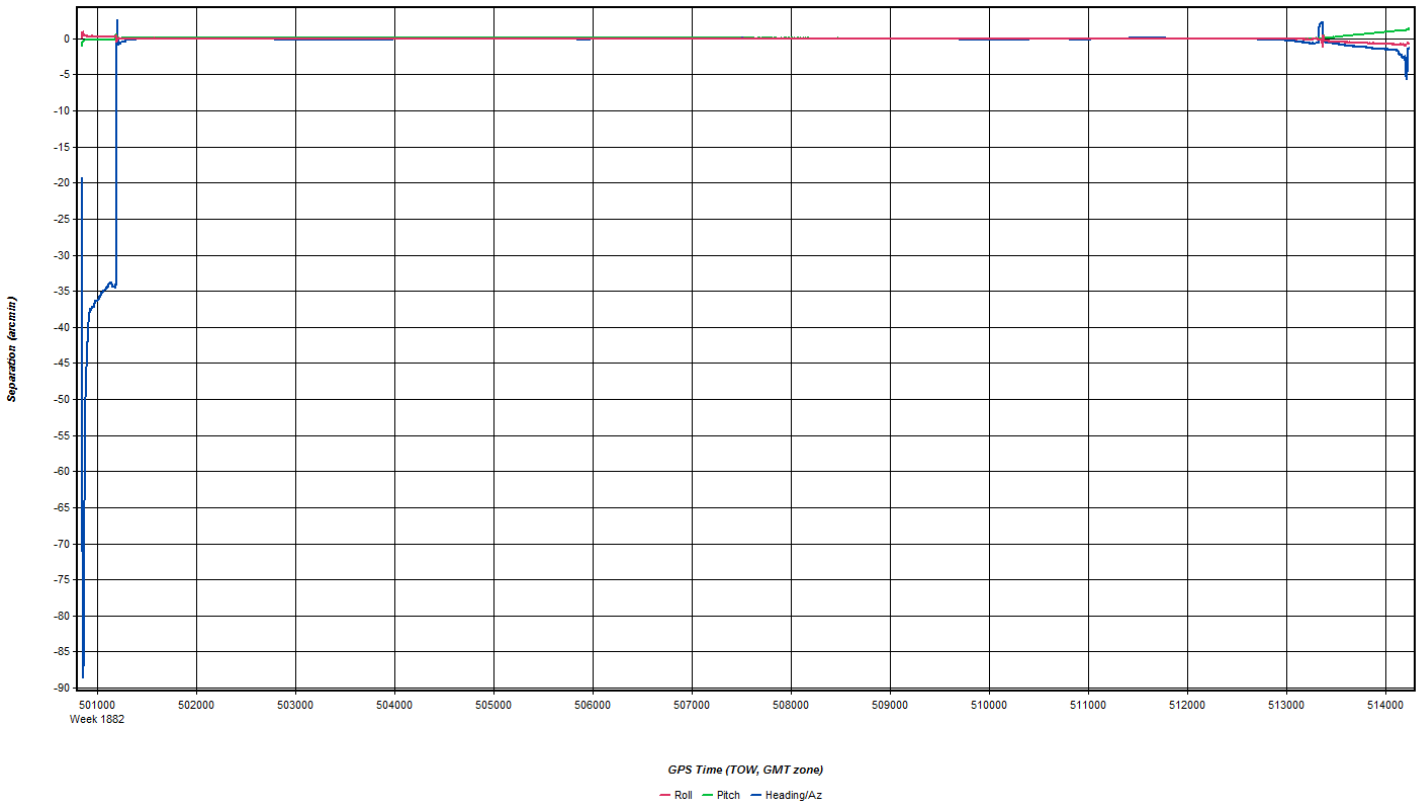

PDOP
1.90
1.85
1.80
1.75
1.70
1.65
1.60
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
0.95
0.90
0.85
0.80
0.75
501000
Week 1882
502000
503000
504000
505000
506000
507000
508000
509000
510000
511000
512000
513000
514000
GPS Time (TOW, GMT zone)
PDOP

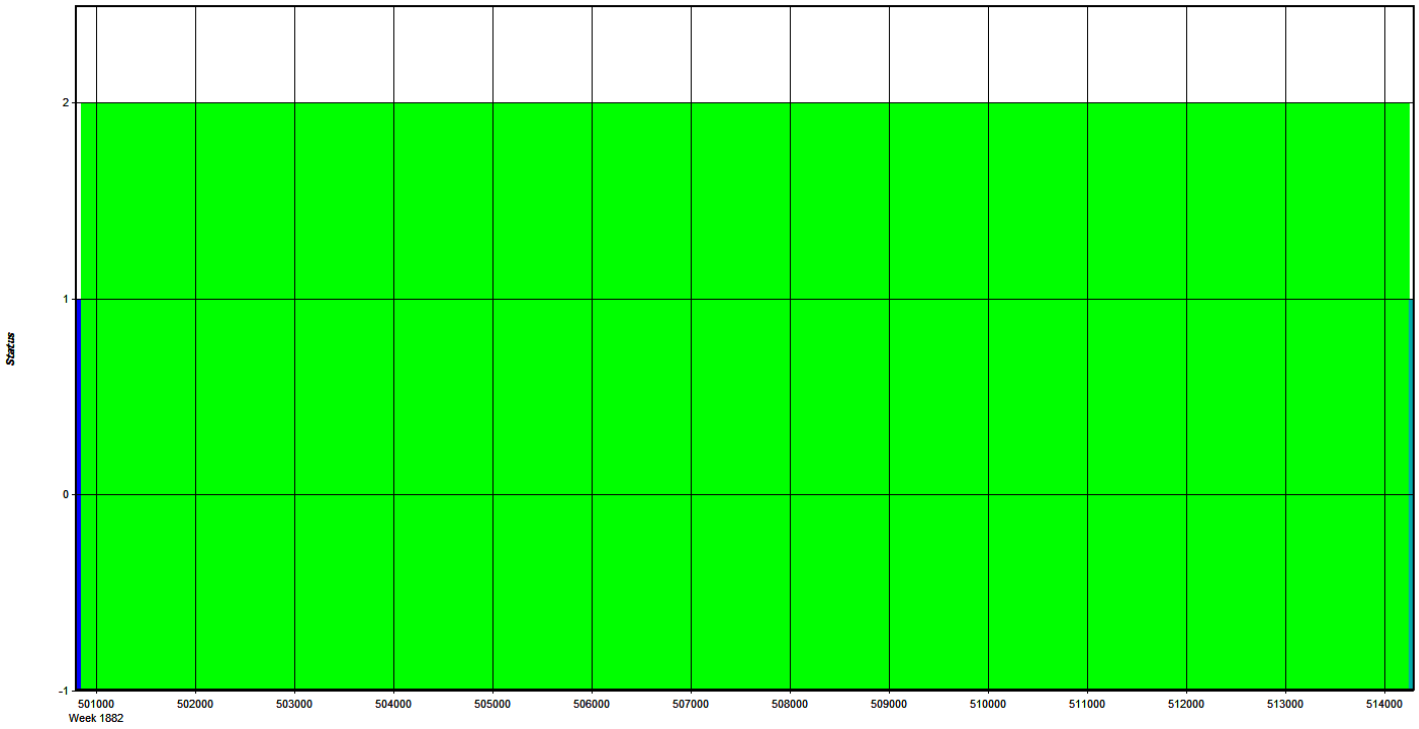

Estimated StdDev (m)
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
501000
Week 1882
502000
503000
504000
505000
506000
507000
508000
509000
510000
511000
512000
513000
514000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

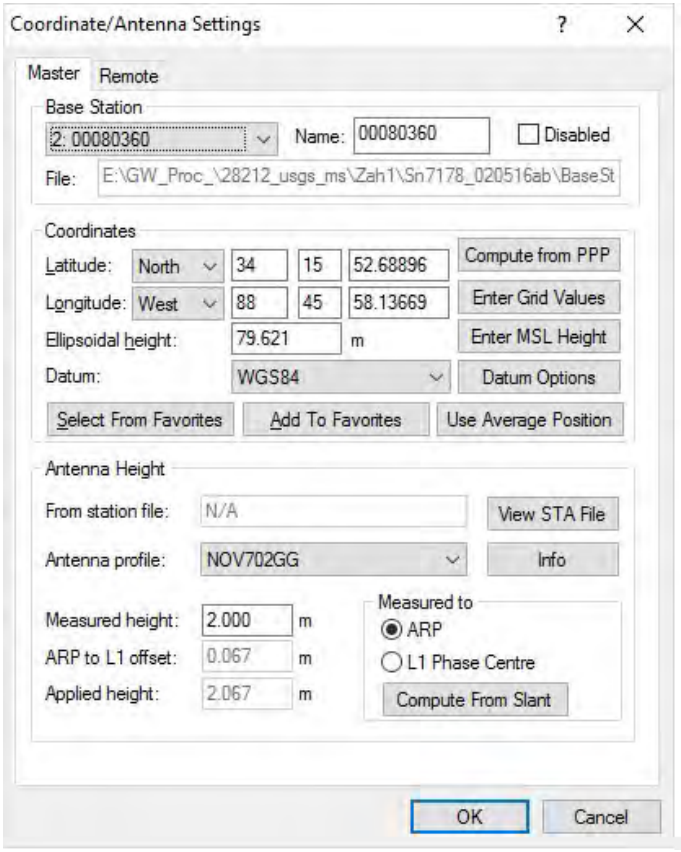

Roll & pitch (deg)
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
501000
Week 1882
502000
503000
504000
505000
506000
507000
508000
509000
510000
511000
512000
513000
514000
GPS Time (TOW, GMT zone)
Roll
Pitch

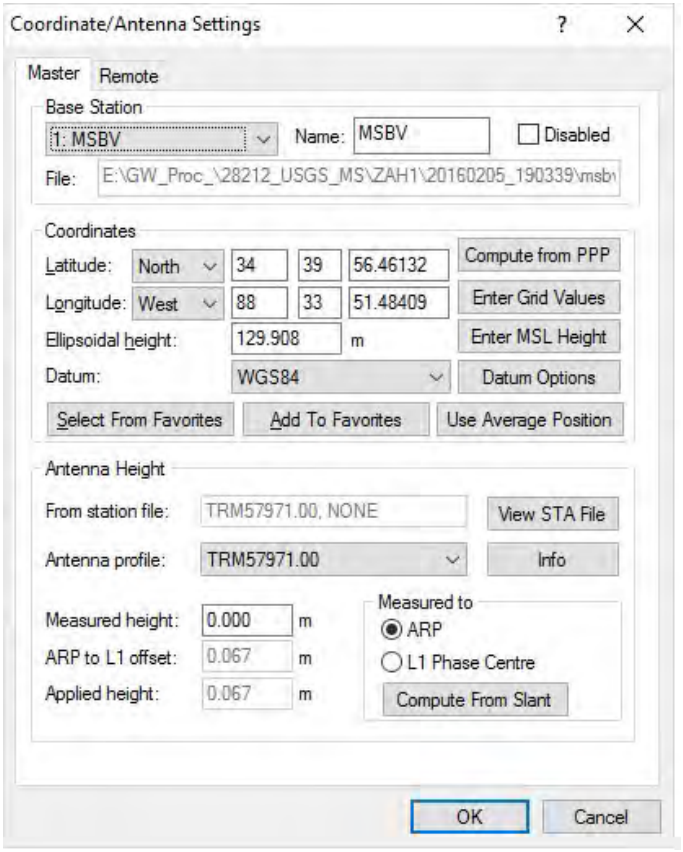

Height (m)
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
501000
Week 1882
502000
503000
504000
505000
506000
507000
508000
509000
510000
511000
512000
513000
514000
GPS Time (TOW, GMT zone)
Height


RMS (m)
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
501000
Week 1882
502000
503000
504000
505000
506000
507000
508000
509000
510000
511000
512000
513000
514000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
-55
-60
-65
-70
-75
-80
-85
-90
501000
Week 1882
502000
503000
504000
505000
506000
507000
508000
509000
510000
511000
512000
513000
514000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
501000
Week 1882
502000
503000
504000
505000
506000
507000
508000
509000
510000
511000
512000
513000
514000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
2: 00080360
Name: 00080360
Disabled
File: E:\GW_Proc_\28212_usgs_ms\Zah1\Sn7178_020516ab\BaseSt
Coordinates
Latitude: North 34 15 52.68896
Compute from PPP
Longitude: West 88 45 58.13669
Enter Grid Values
Ellipsoidal height: 79.621 m
Enter MSL Height
Datum: WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file: N/A
View STA File
Antenna profile: NOV702GG
Info
Measured height: 2.000 m
ARP to L1 offset: 0.067 m
Applied height: 2.067 m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSBV
Name: MSBV
Disabled
File: E:\GW_Proc_\28212_USGS_MS\ZAH1\20160205_190339\msbv
Coordinates
Latitude: North 34 39 56.46132
Longitude: West 88 33 51.48409
Ellipsoidal height: 129.908 m
Datum: WGS84
Compute from PPP
Enter Grid Values
Enter MSL Height
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file: TRM57971.00, NONE
View STA File
Antenna profile: TRM57971.00
Info
Measured height: 0.000 m
ARP to L1 offset: 0.067 m
Applied height: 0.067 m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log

OPERATORS FLIGHT LOG SN7178_020516B

YYYYMMDD_TIME(GPS)

MISSION: v 20160205_190339 | DATE: 2/5/2016 | LEICA ALS-70 | DI2

PILOT: Smelser | OPERATOR: I Versaw | AIRCRAFT: 226E

PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (ft)	TIME START	TIME STOP	MM70 DRIVE	REMARKS (MPiA-Disabled/Enabled) (WF Settings)
28212					53	40	273	255		1907		2	staticB 8591.7 Hobbs
MS-USGS										1918			TakeOFF KTUP
										1928			[redacted] cores MSBV
										1936	1941		figure 8
		251	S	169	53	40	273	255	6719	1946	2005	2	
		250	N	163					6732	2009	2029		getting bumpy
249		249	S	162					6735	2032	2051		
		298	E	155					6722	2057	2100		
		244	N	160					6765	2109	2128		
		243	S	165					6772	2130	2147		
		242	N	160					6765	2151	2209		
										2210	2214		figure 8
										2222			cores MSBV
											2233		Land KTUP 8595.0 Hobbs
											2241		staticB

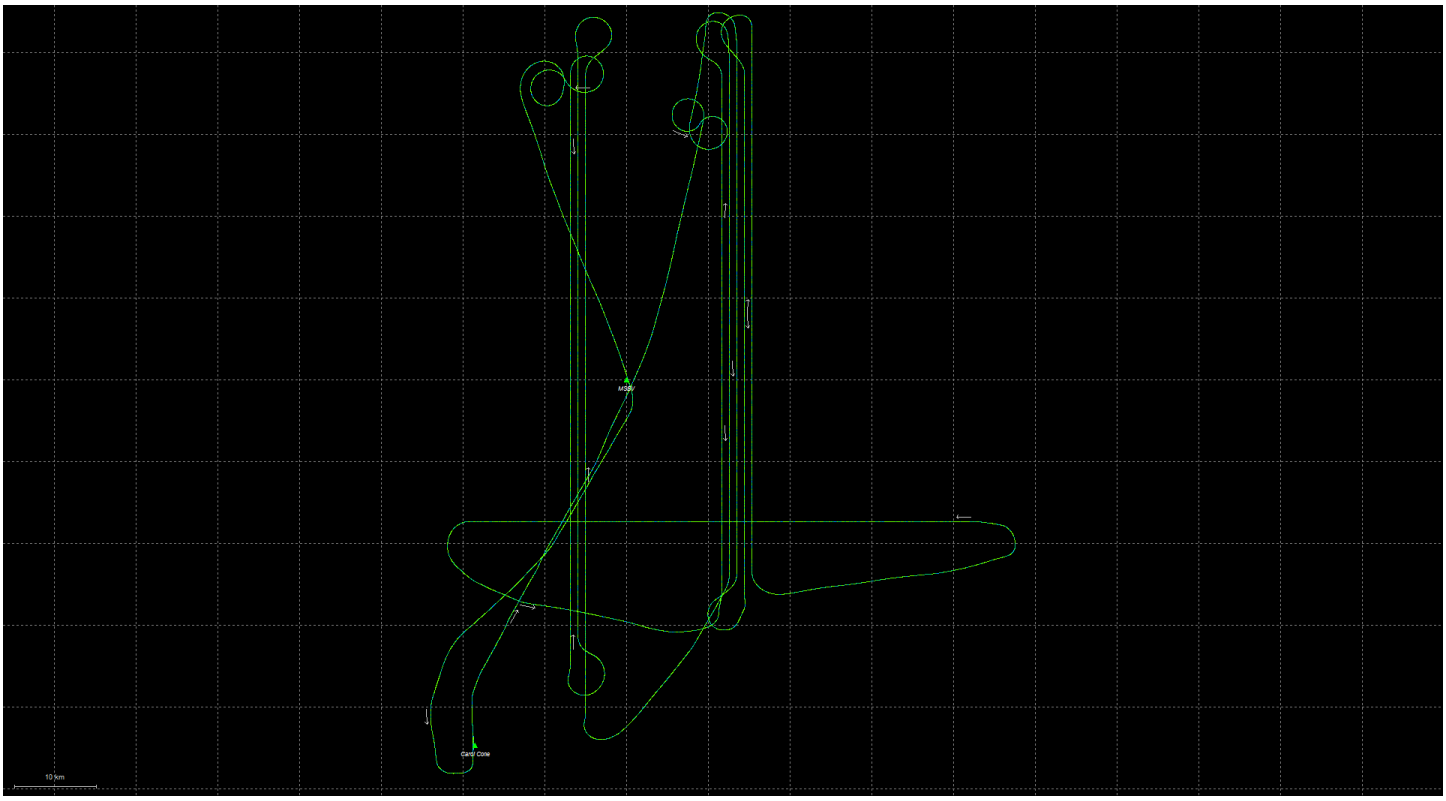
STATUS	TOTAL LINES	FLOWN	AIRCRAFT LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP
○						B	1907	2241
○						WX		
○								

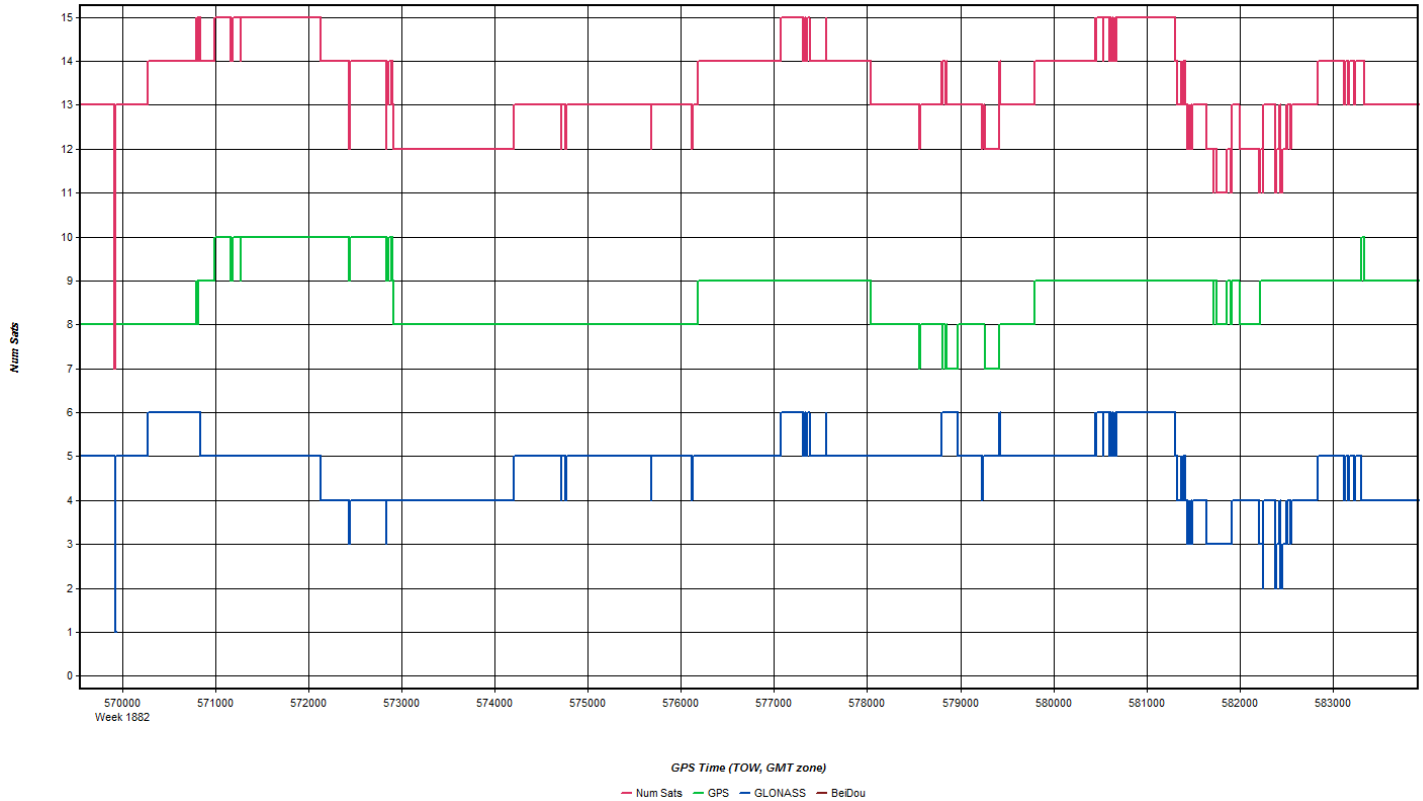
NOTES:

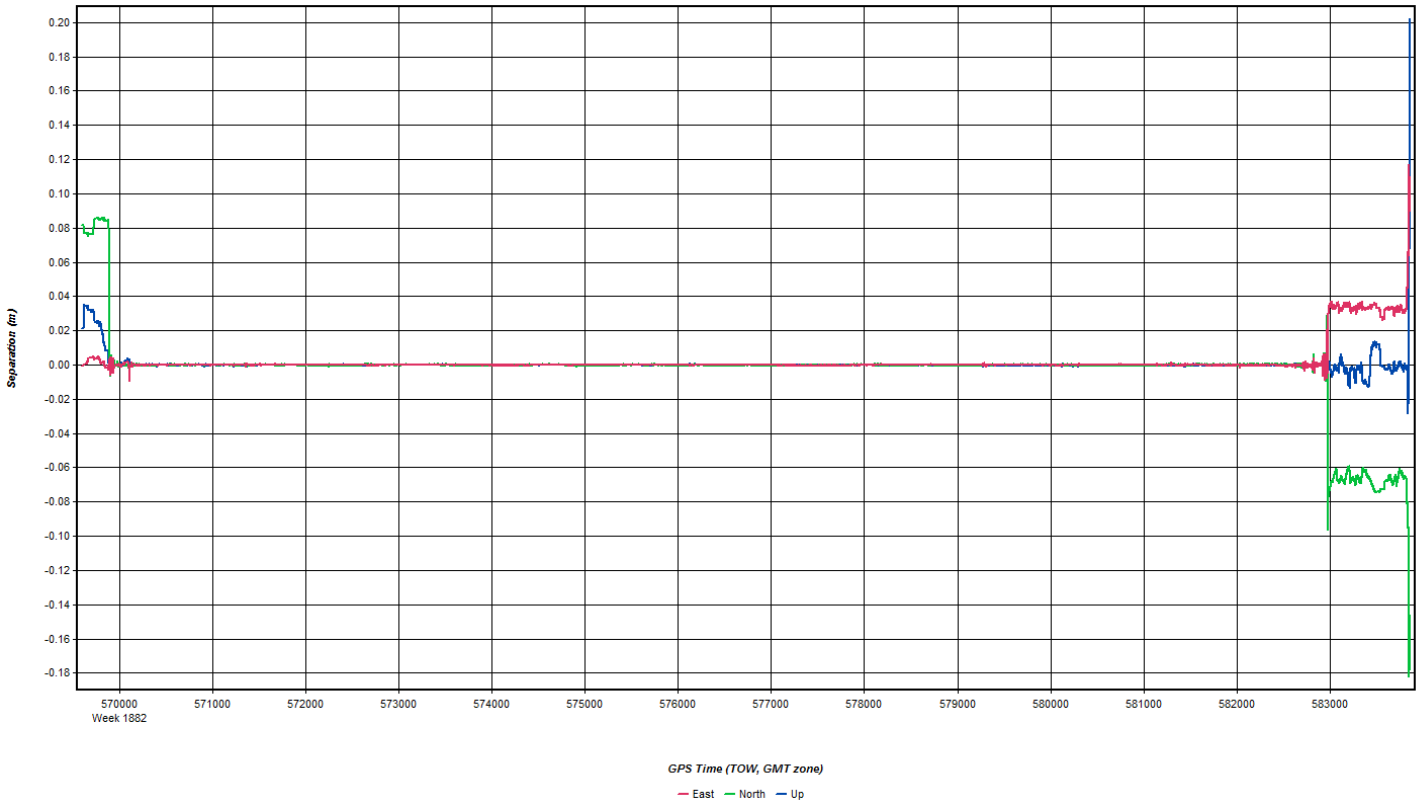
Quantumspatial, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 **FAX: 888-253-6695** E-Mail: flight-log-distribution-list@aerometric.com

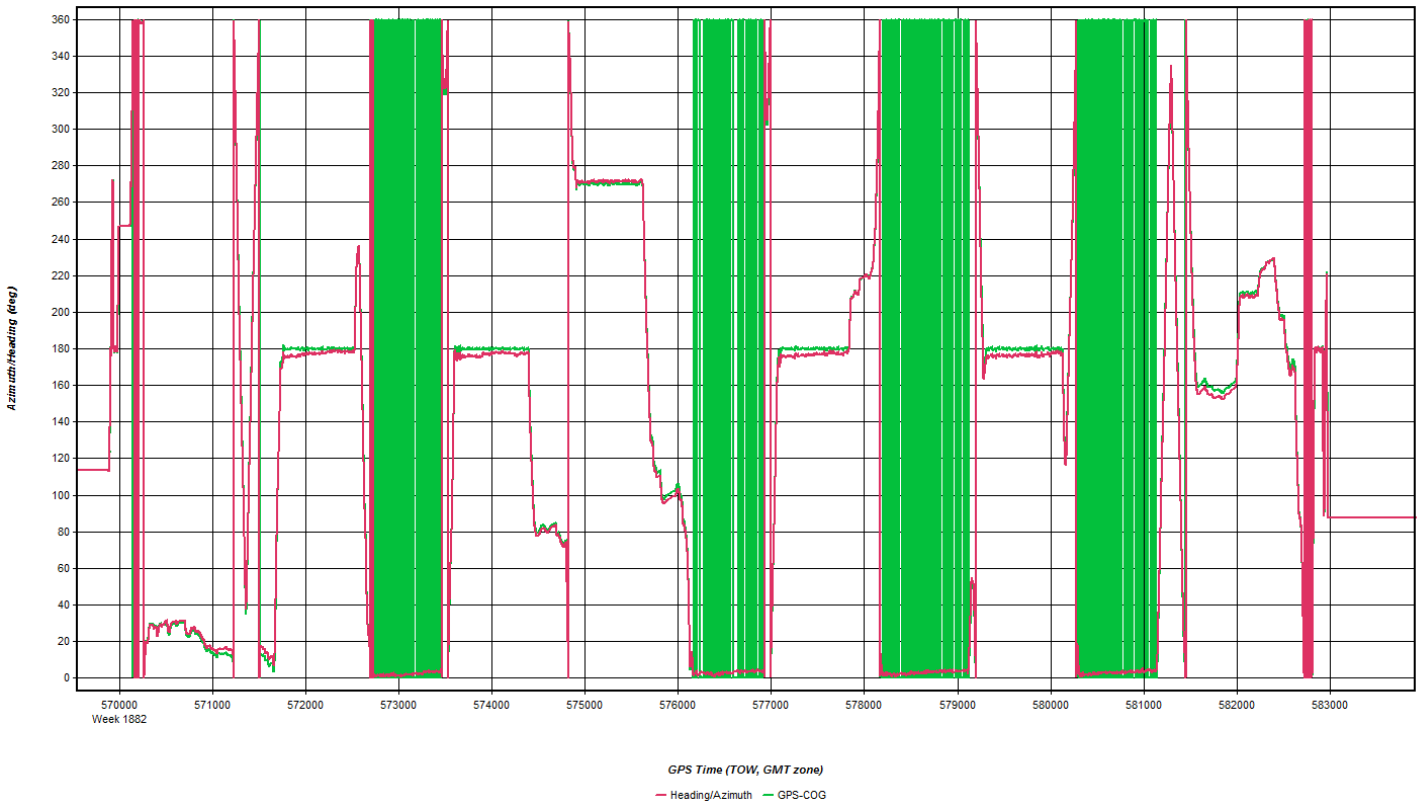
North AOI - UTM Zone 16

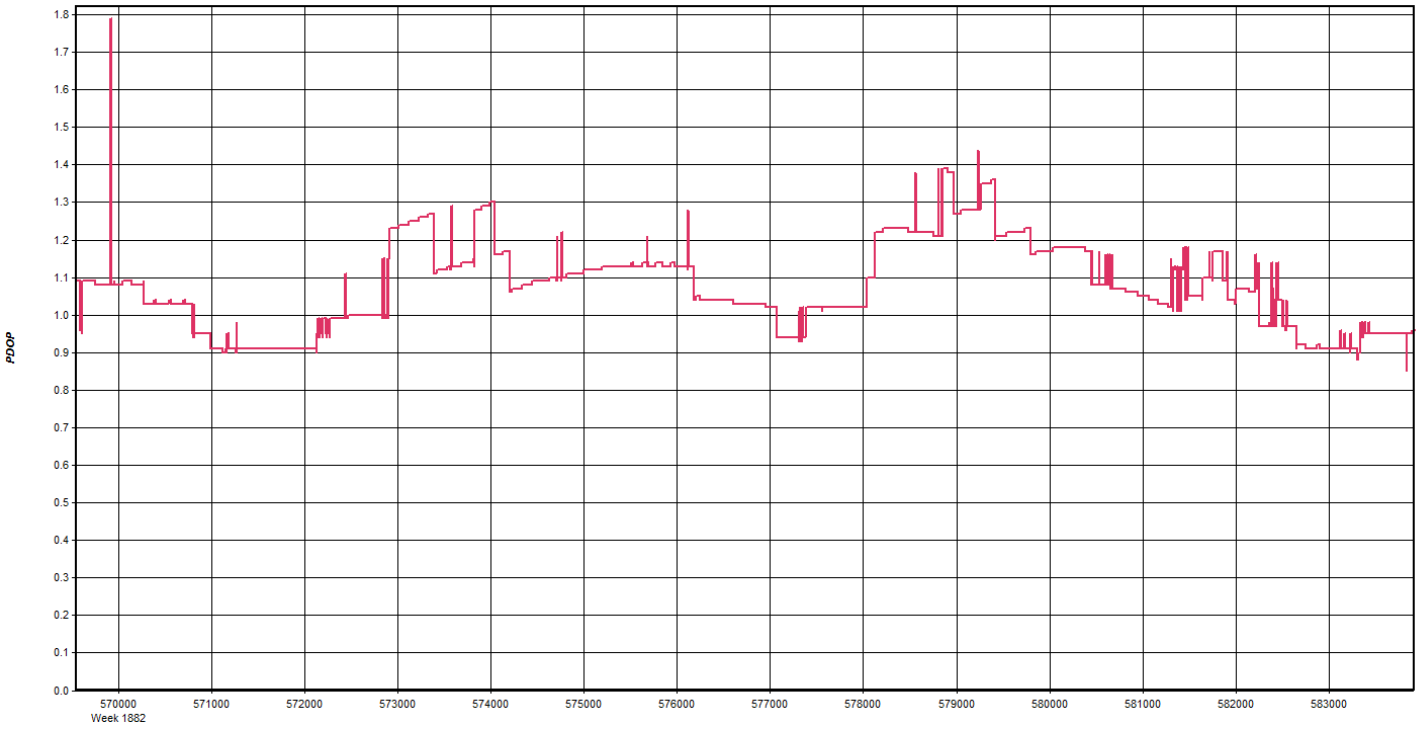
Feb 6, 2016-A (N22GE, SN7178)

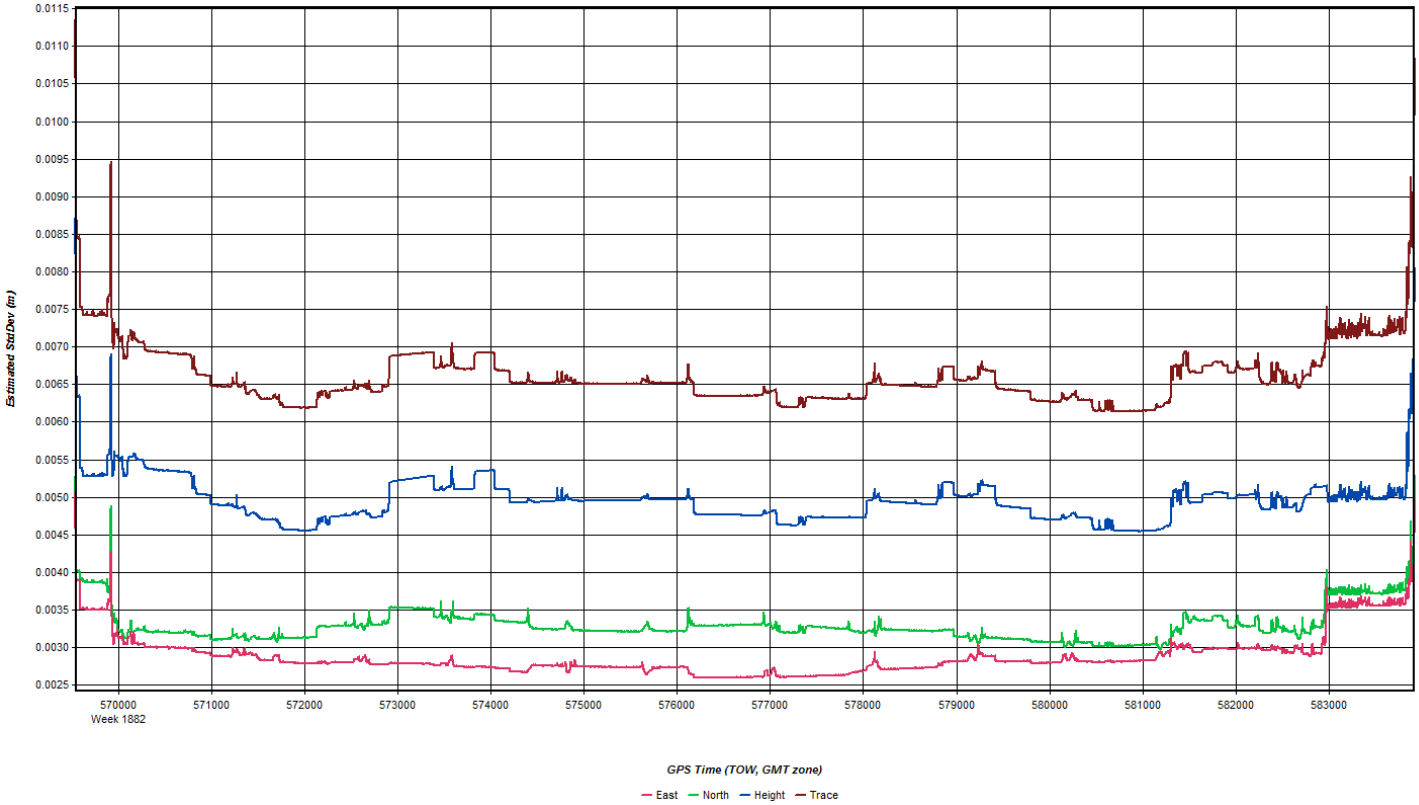

MSBV
Card Cow
10 km

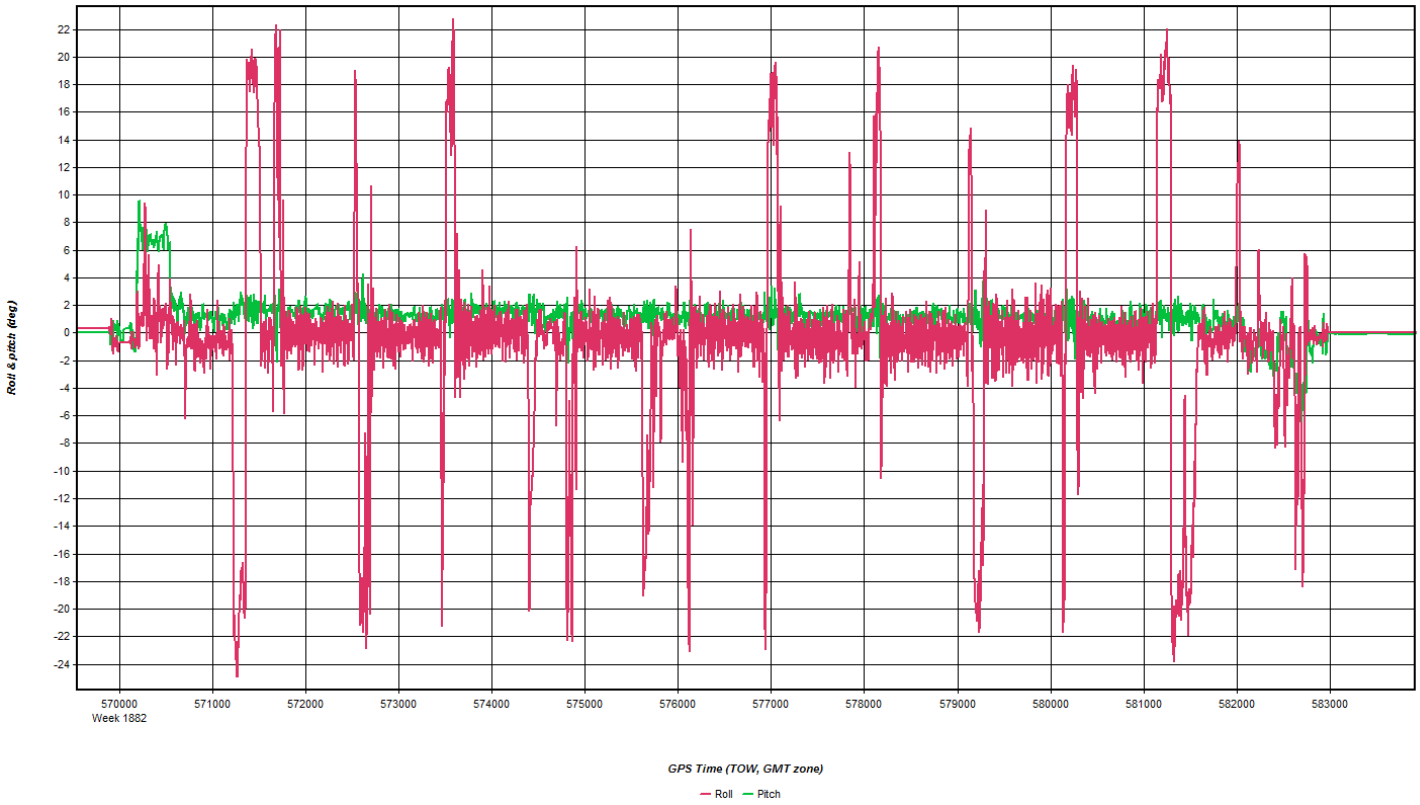

Num Sats
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
570000
Week 1882
571000
572000
573000
574000
575000
576000
577000
578000
579000
580000
581000
582000
583000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

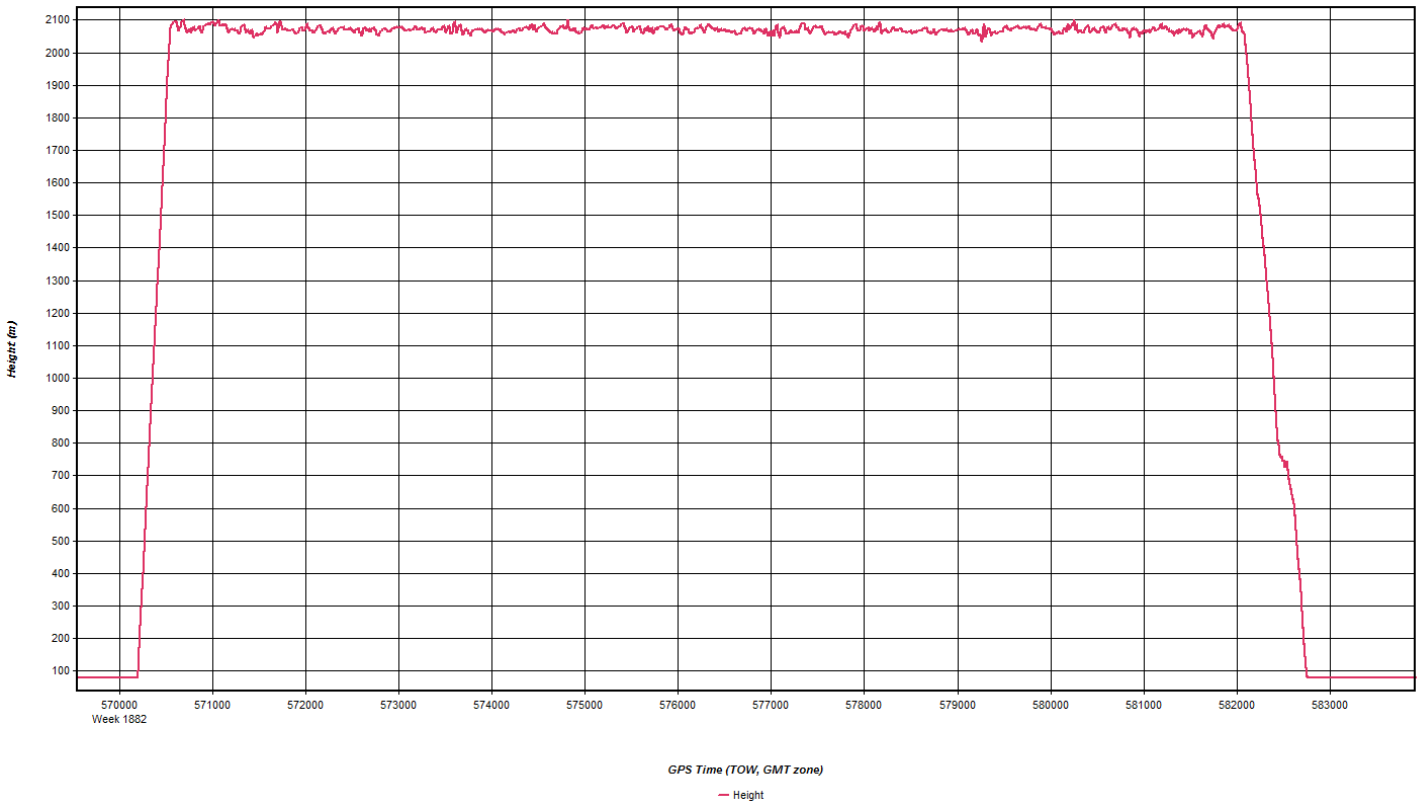

Separation (m)
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
-0.10
-0.12
-0.14
-0.16
-0.18
570000
Week 1882
571000
572000
573000
574000
575000
576000
577000
578000
579000
580000
581000
582000
583000
GPS Time (TOW, GMT zone)
East
North
Up


Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
570000
Week 1882
571000
572000
573000
574000
575000
576000
577000
578000
579000
580000
581000
582000
583000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

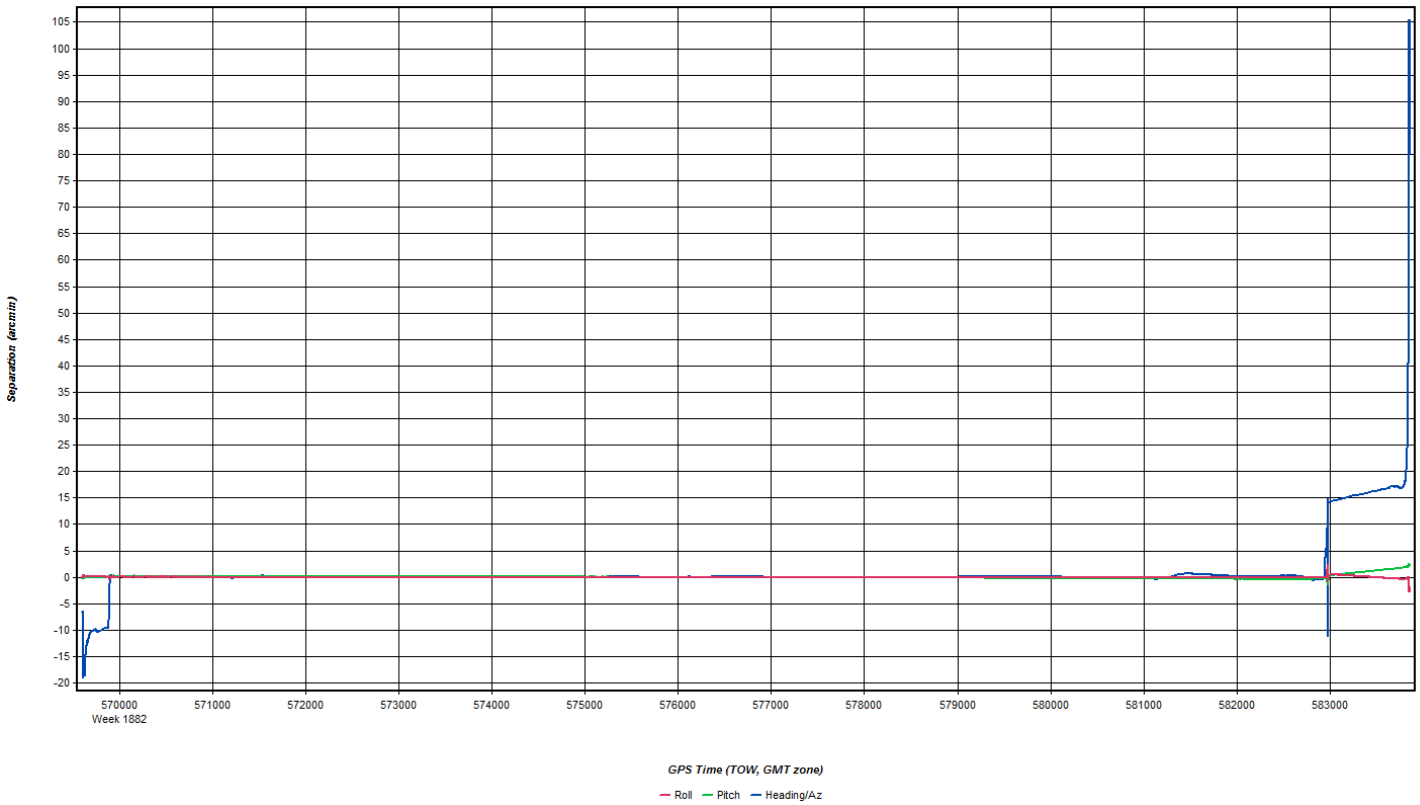

PDOP
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
570000
Week 1882
571000
572000
573000
574000
575000
576000
577000
578000
579000
580000
581000
582000
583000
GPS Time (TOW, GMT zone)
PDOP

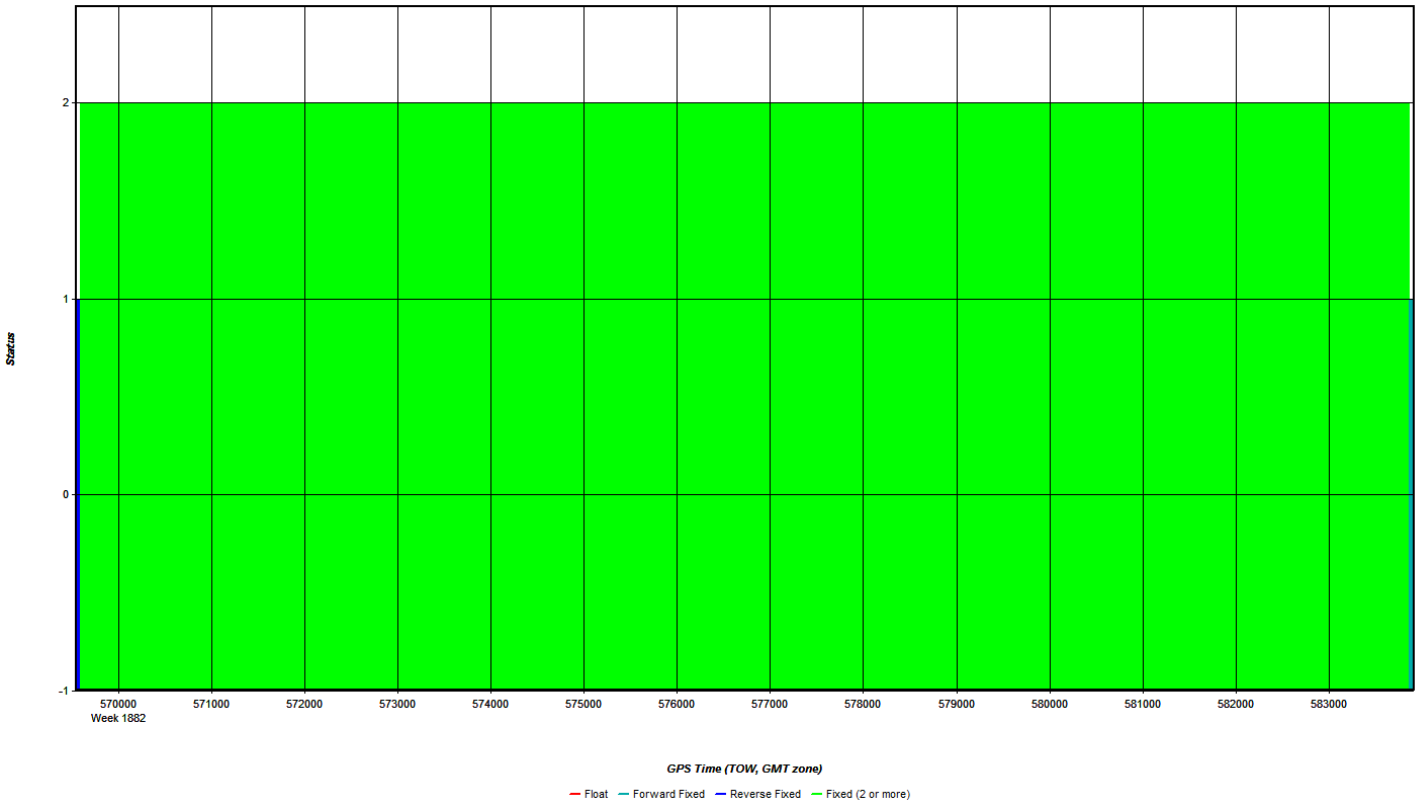

Estimated StdDev (m)
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
0.0025
570000
Week 1882
571000
572000
573000
574000
575000
576000
577000
578000
579000
580000
581000
582000
583000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

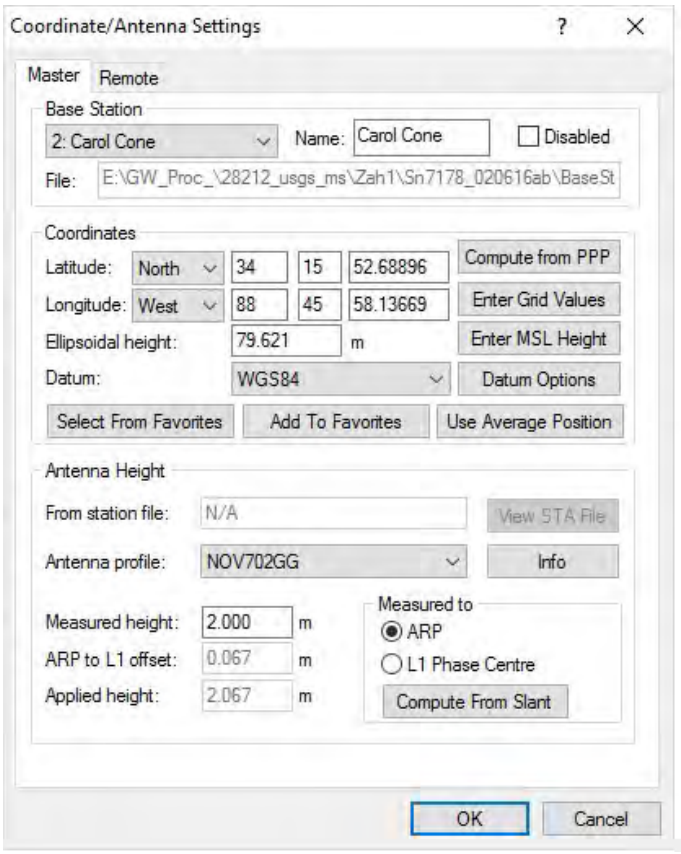

Roll & pitch (deg)
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
570000
Week 1882
571000
572000
573000
574000
575000
576000
577000
578000
579000
580000
581000
582000
583000
GPS Time (TOW, GMT zone)
Roll
Pitch


Height (m)
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
570000
Week 1882
571000
572000
573000
574000
575000
576000
577000
578000
579000
580000
581000
582000
583000
GPS Time (TOW, GMT zone)
Height


RMS (m)
0.048
0.046
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
570000
Week 1882
571000
572000
573000
574000
575000
576000
577000
578000
579000
580000
581000
582000
583000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
105
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
-5
-10
-15
-20
570000
Week 1882
571000
572000
573000
574000
575000
576000
577000
578000
579000
580000
581000
582000
583000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
570000
Week 1882
571000
572000
573000
574000
575000
576000
577000
578000
579000
580000
581000
582000
583000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
2: Carol Cone
Name:
Carol Cone
Disabled
File:
E:\GW_Proc_\28212_usgs_ms\Zah1\Sn7178_020616ab\BaseSt
Coordinates
Latitude:
North
34
15
52.68896
Compute from PPP
Longitude:
West
88
45
58.13669
Enter Grid Values
Ellipsoidal height:
79.621
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
N/A
View STA File
Antenna profile:
NOV702GG
Info
Measured height:
2.000
m
ARP to L1 offset:
0.067
m
Applied height:
2.067
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSBV
Name: MSBV
Disabled
File: E:\GW_Proc_\28212_USGS_MS\ZAH1\20160206_140934\msbv
Coordinates
Latitude: North 34 39 56.46132
Longitude: West 88 33 51.48409
Ellipsoidal height: 129.908 m
Datum: WGS84
Compute from PPP
Enter Grid Values
Enter MSL Height
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file: TRM57971.00, NONE
View STA File
Antenna profile: TRM57971.00
Info
Measured height: 0.000 m
ARP to L1 offset: 0.067 m
Applied height: 0.067 m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log

YYYYMMDD_TIME(GPS)

OPERATORS FLIGHT LOG

SN7178_ 020616A

MISSION: v 20160206_140934 DATE: 2/6/2016 LEICA ALS-70 DI1

PILOT: Smelser OPERATOR: Iverson AIRCRAFT: N226AE

PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS (MPiA-Disabled/Enabled) (WF Settings)
28212					53	40	273	255		1412		2	staticA 8595.0 Hobbs
MS-USGS										1422			TakeOff KTUP
										1433			Cores MSBV
										1440	1445		figure 8
	261	S		164	53	40	273	255	6768	1449	1501	2	
	262	N		161					6765	1505	1517		
	263	S		164					6765	1521	1533		
	297	W		160					6765	1542	1552		
	259	N		159					6759	1603	1615		
	260	S		166					6752	1618	1630		
	241	N		164					6775	1637	1651		
	240	S		166					6784	1655	1708		
	239	N		161					6784	1712	1725		
										1726	1730		figure 8
											1739		cores MSBV
											1752		Land KTUP 8598.5 Hobbs
											1801		static A

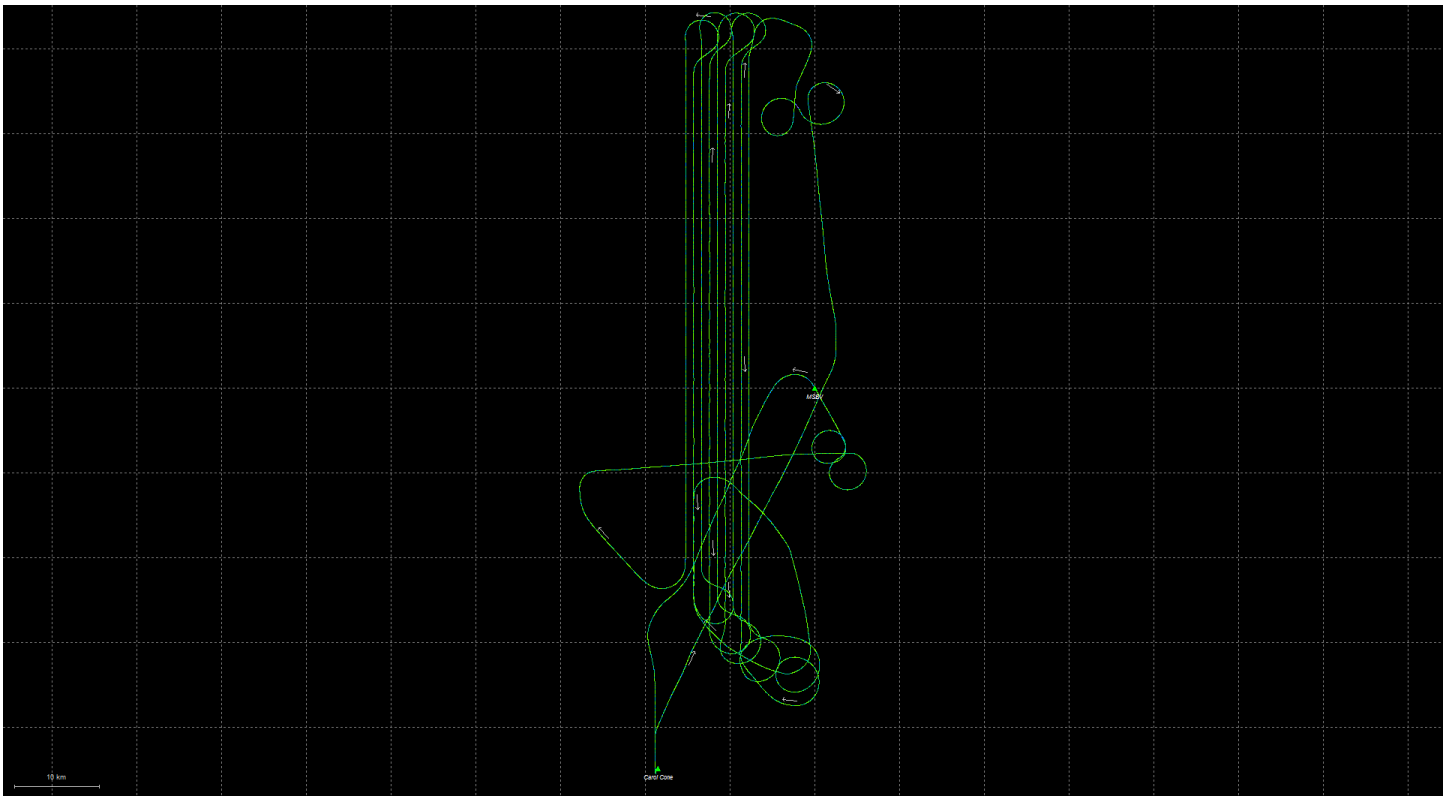
STATUS	TOTAL LINES	FLOWN	AIRCRAFT LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP
28212		18		5.5	1.5	A	1412	1801
						WX		

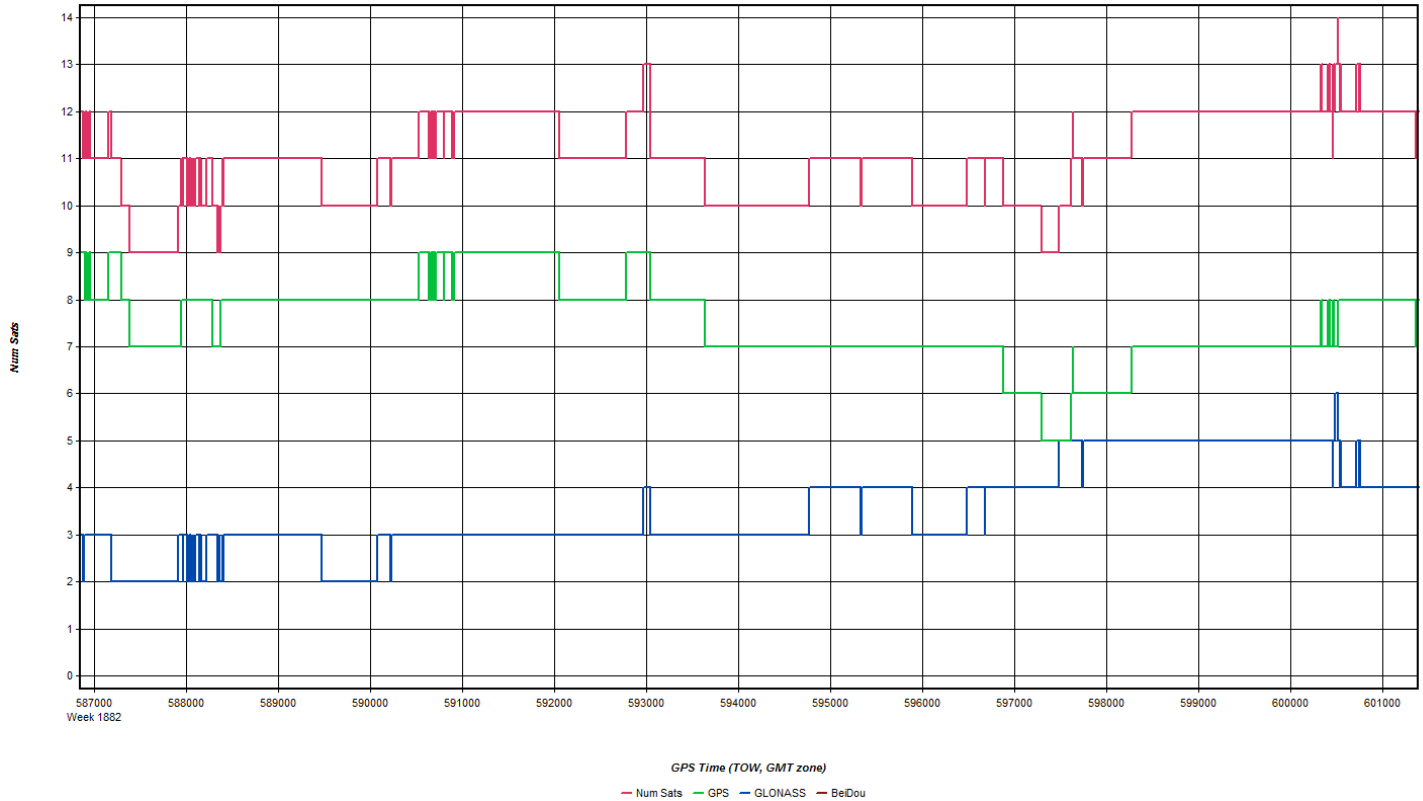
NOTES: Base set at KTUP
shipDrive: RAW_ZAH1
BackUpDrive: 2490

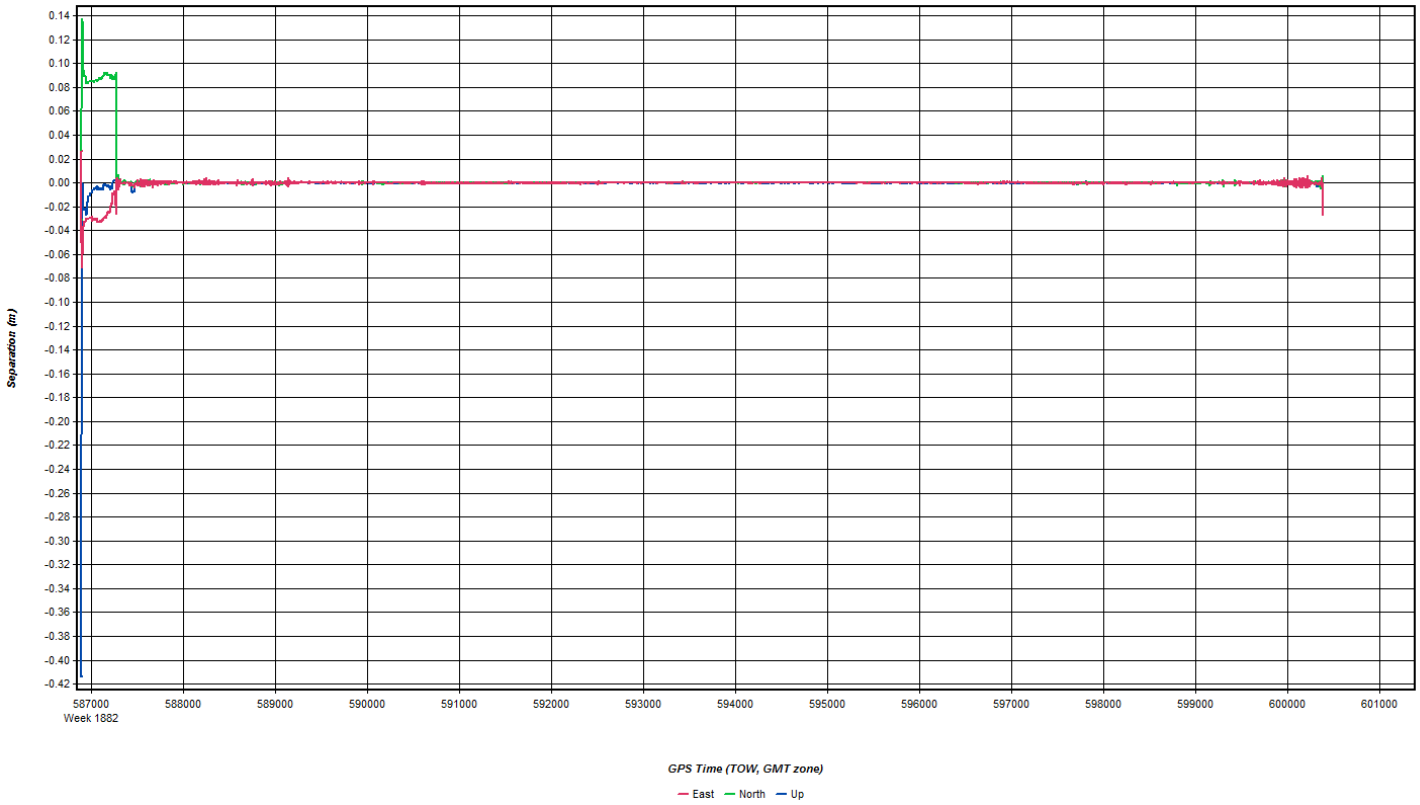
AERO-METRIC, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@aerometric.com

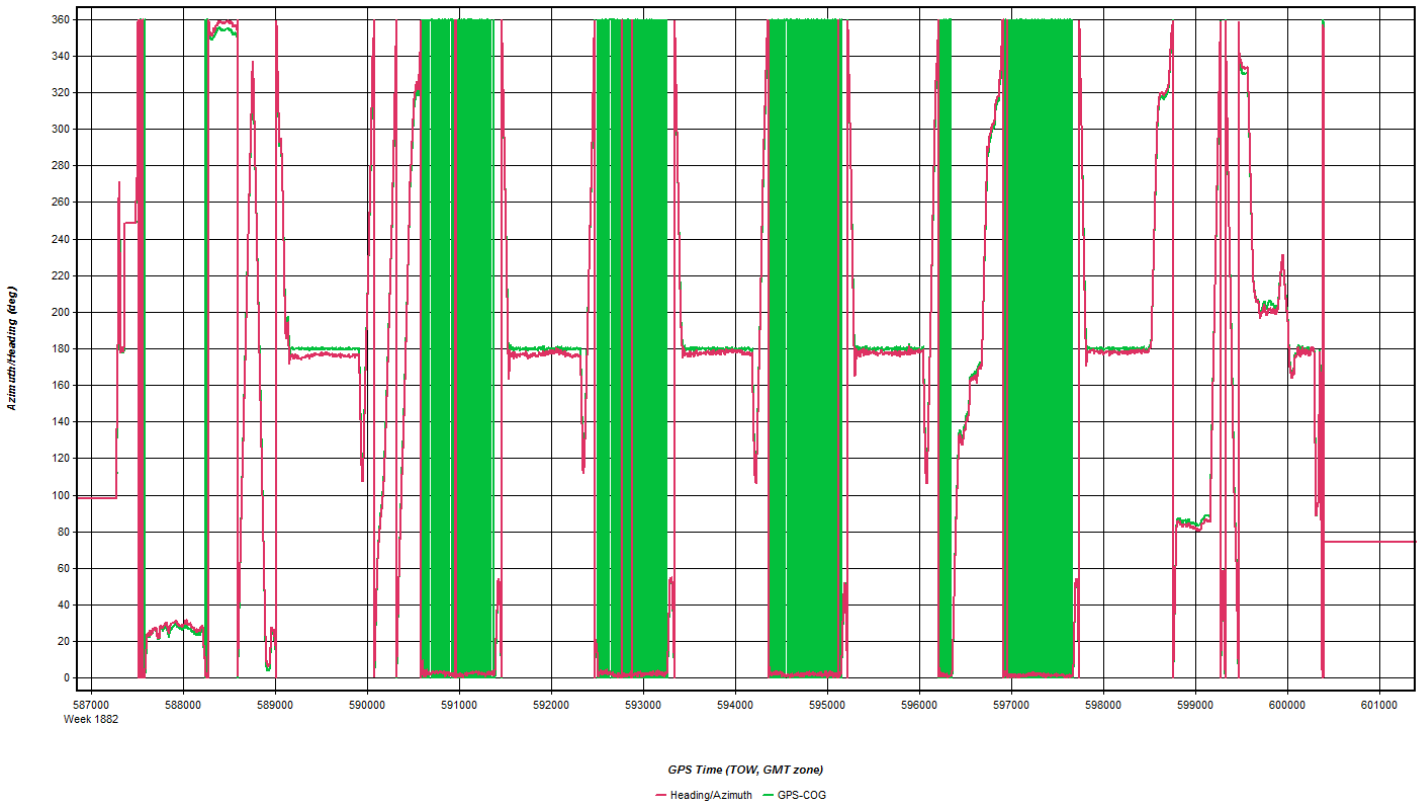
North AOI - UTM Zone 16

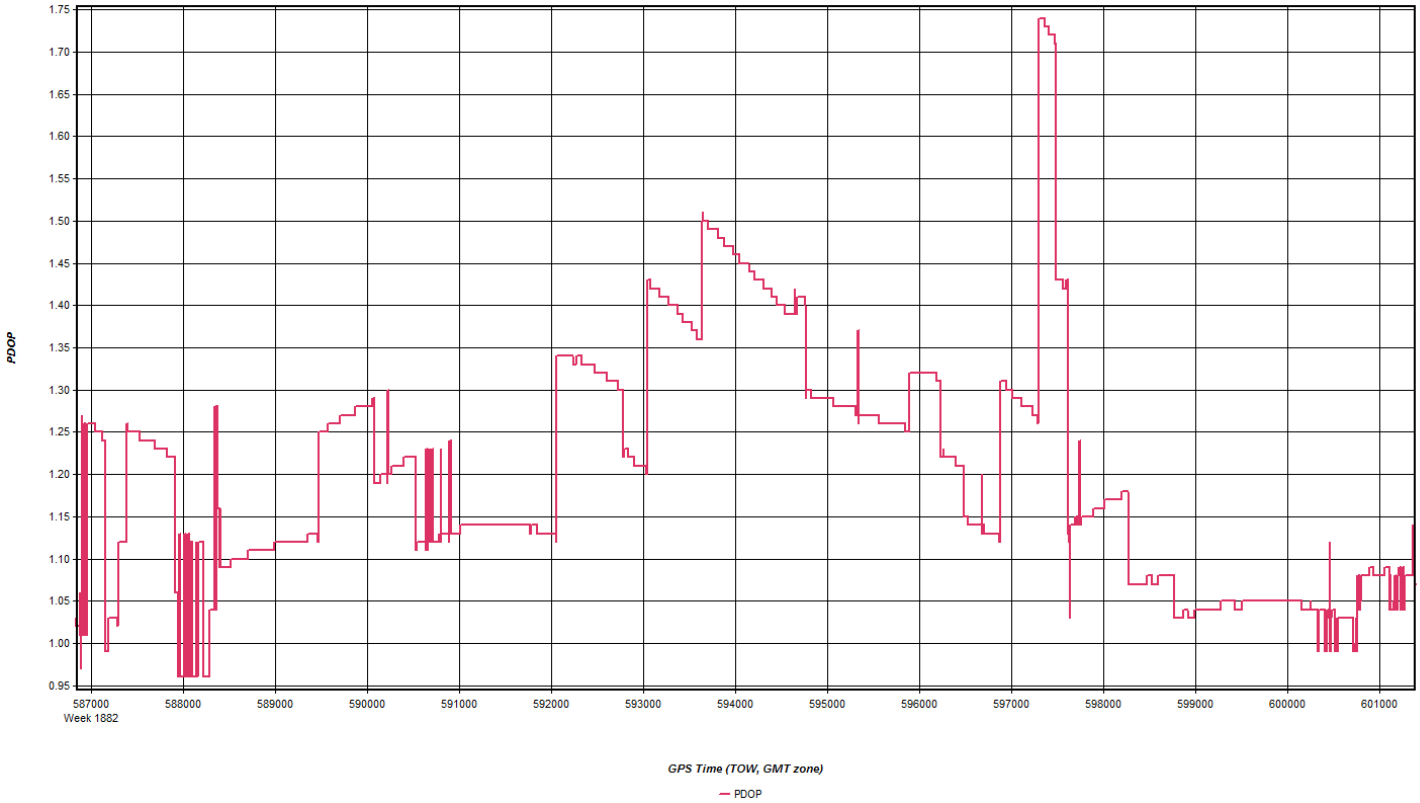
Feb 6, 2016-B (N22GE, SN7178)

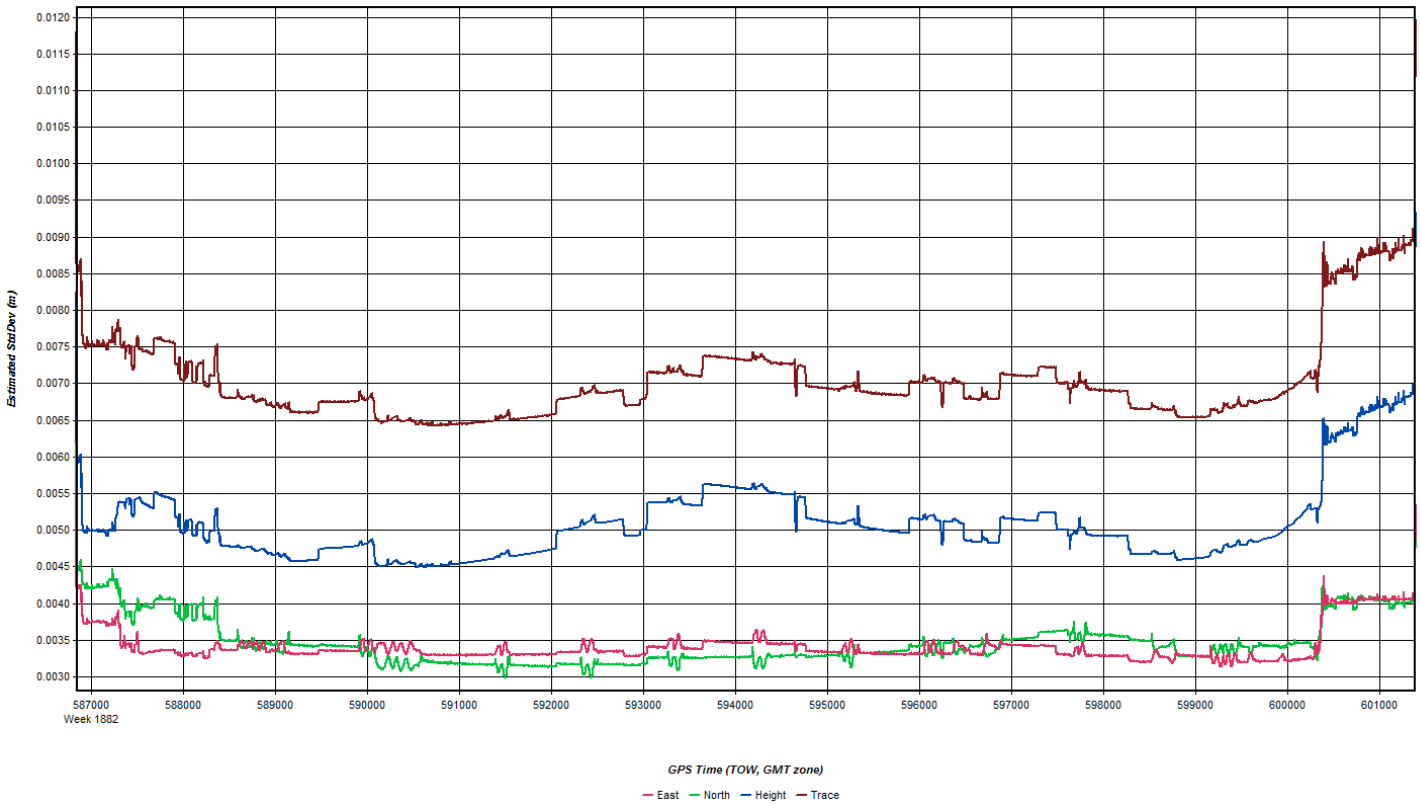

10 km
Carol Cone

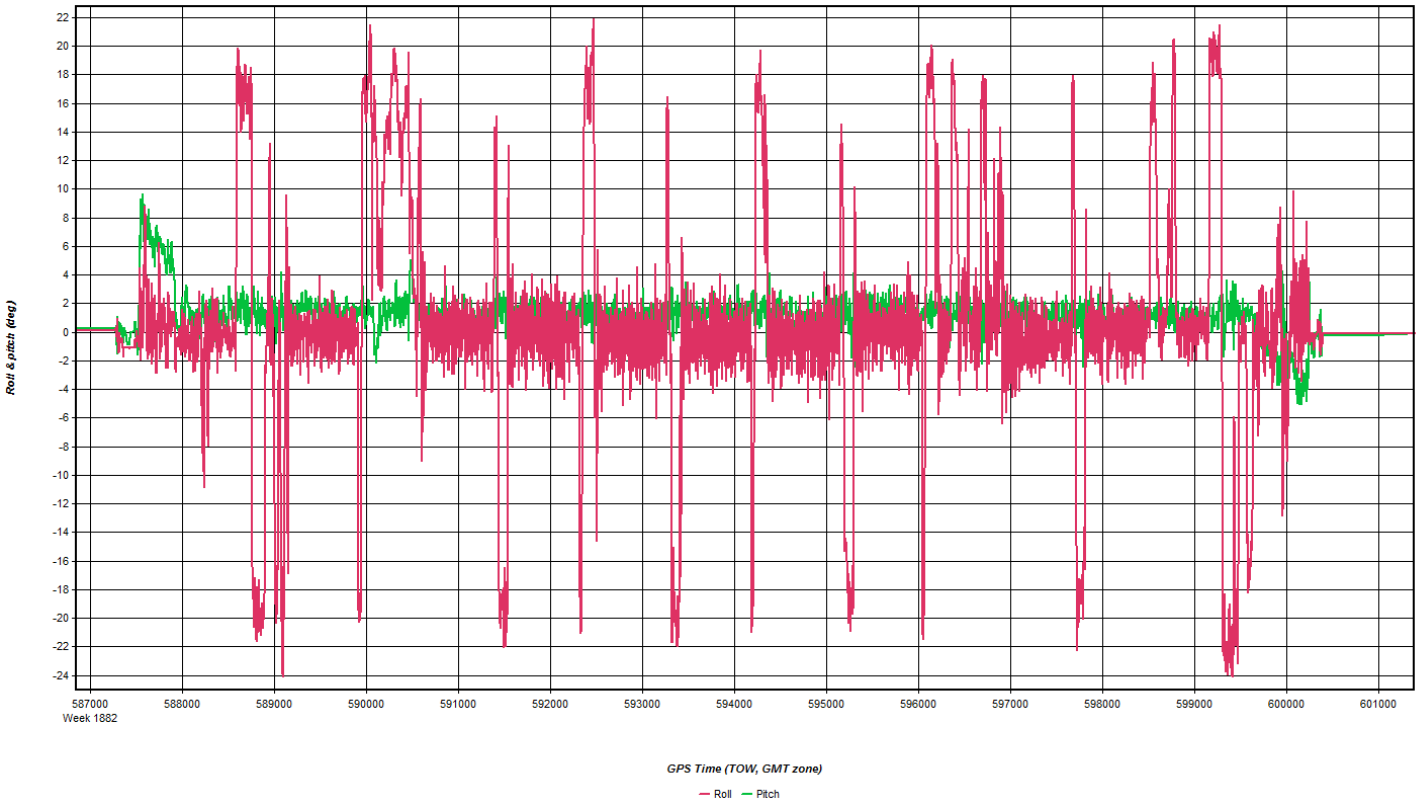

Num Sats
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
587000
Week 1882
588000
589000
590000
591000
592000
593000
594000
595000
596000
597000
598000
599000
600000
601000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

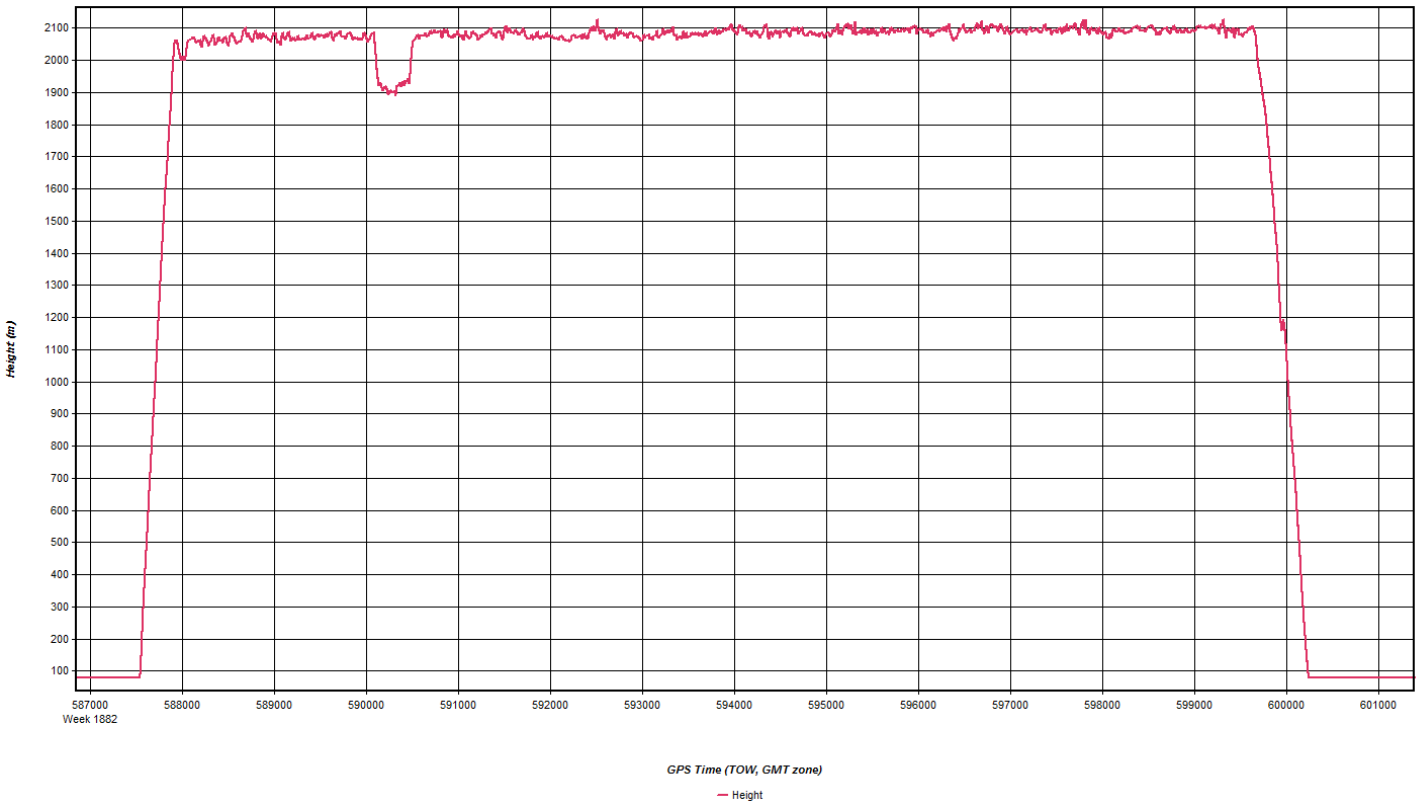

Separation (m)
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
-0.10
-0.12
-0.14
-0.16
-0.18
-0.20
-0.22
-0.24
-0.26
-0.28
-0.30
-0.32
-0.34
-0.36
-0.38
-0.40
-0.42
587000
Week 1882
588000
589000
590000
591000
592000
593000
594000
595000
596000
597000
598000
599000
600000
601000
GPS Time (TOW, GMT zone)
East
North
Up

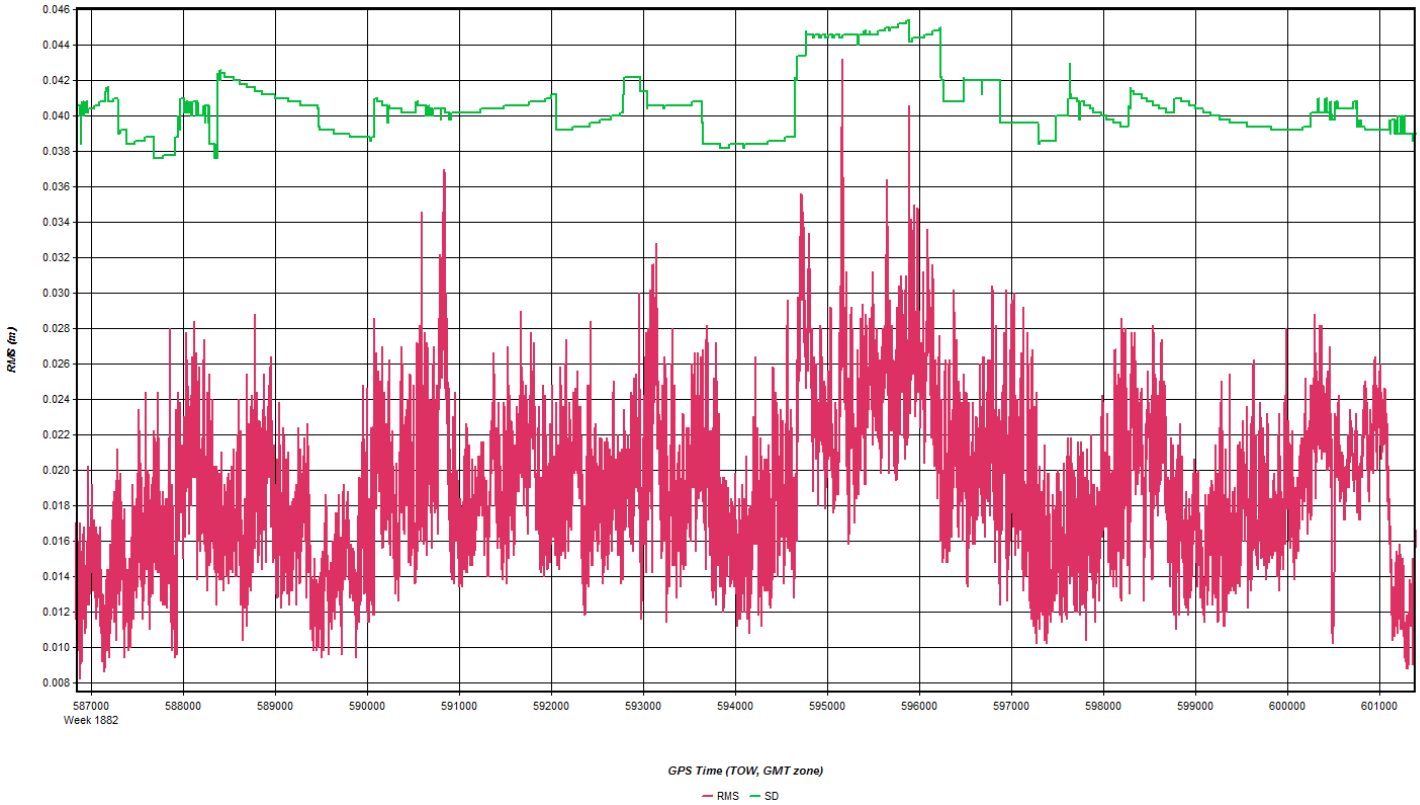

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
587000
Week 1882
588000
589000
590000
591000
592000
593000
594000
595000
596000
597000
598000
599000
600000
601000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

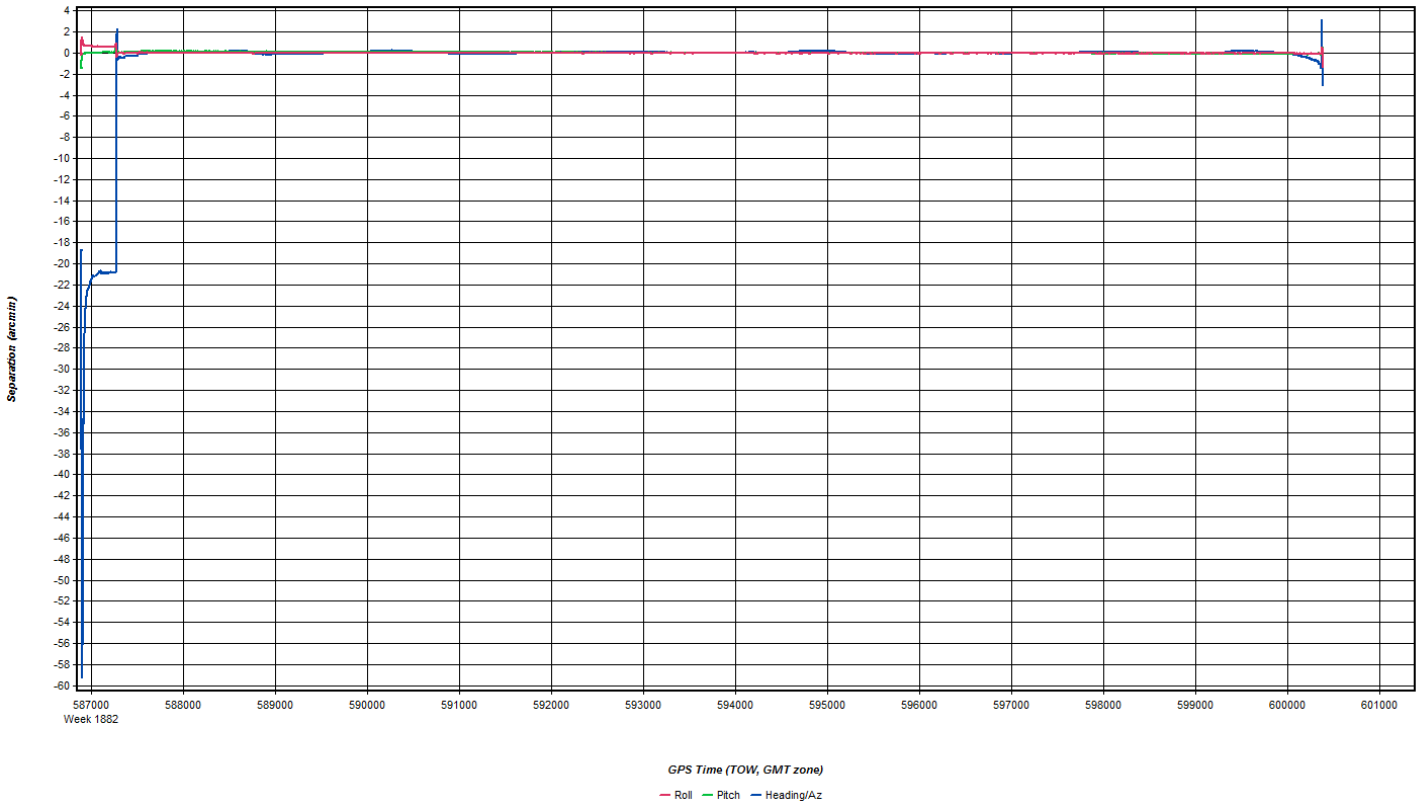

PDOP
1.75
1.70
1.65
1.60
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
0.95
587000
Week 1882
588000
589000
590000
591000
592000
593000
594000
595000
596000
597000
598000
599000
600000
601000
GPS Time (TOW, GMT zone)
PDOP

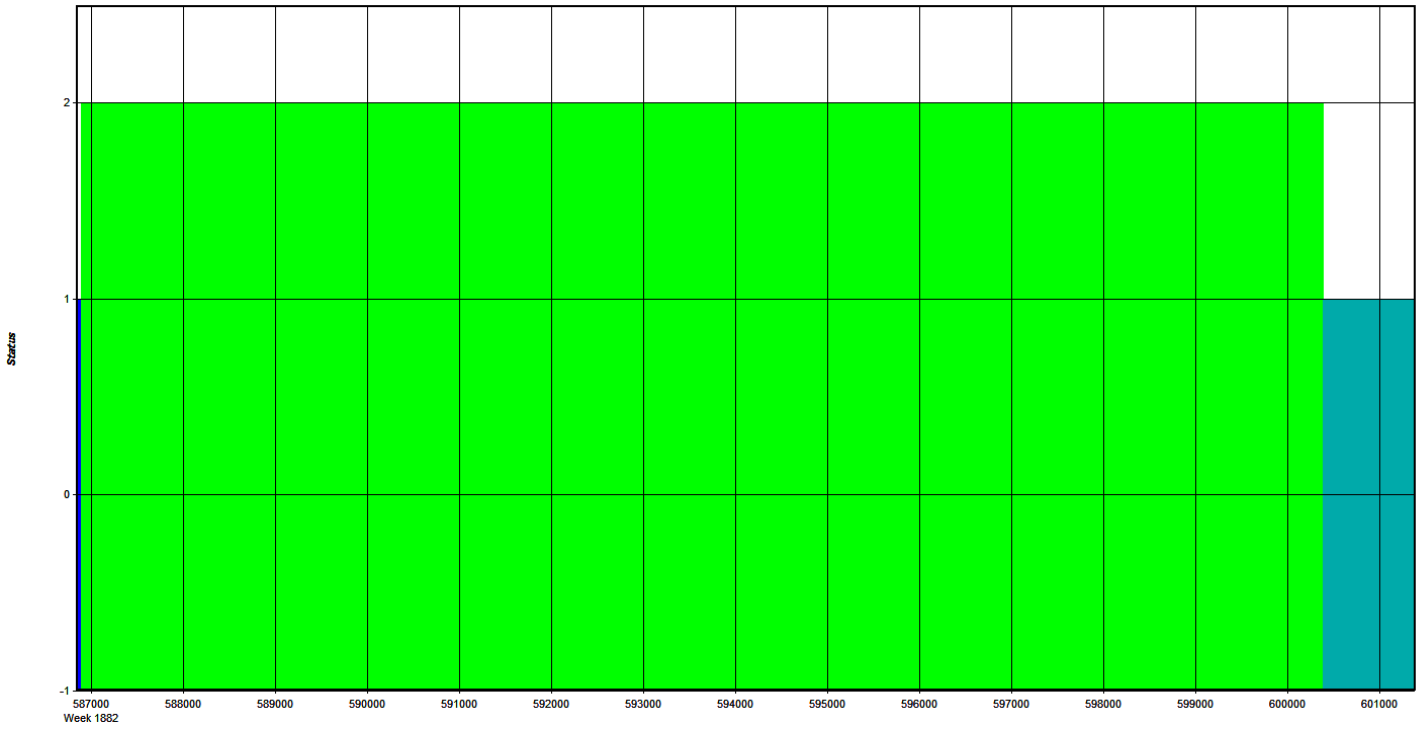

Estimated StdDev (m)
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
587000
Week 1882
588000
589000
590000
591000
592000
593000
594000
595000
596000
597000
598000
599000
600000
601000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

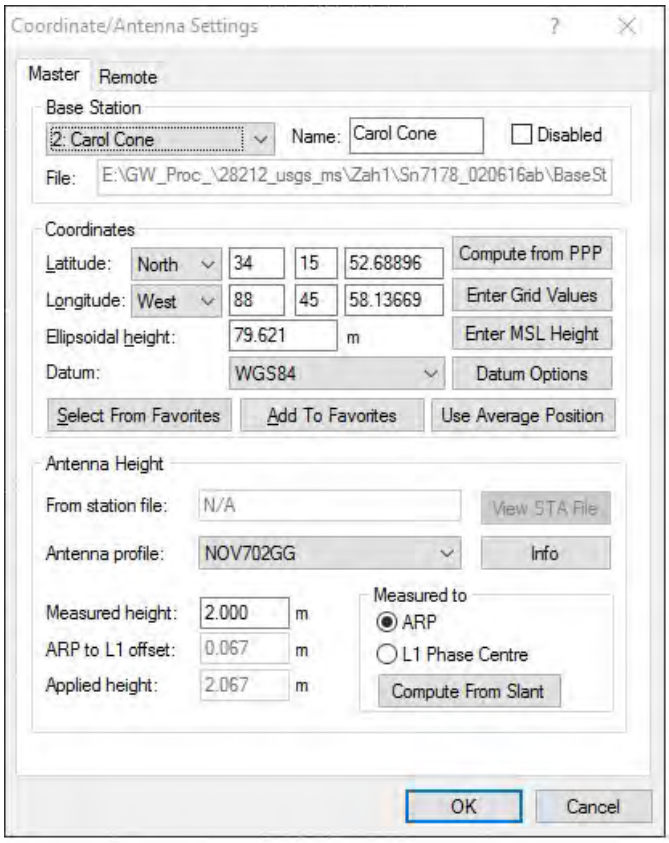

Roll & pitch (deg)
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
587000
Week 1882
588000
589000
590000
591000
592000
593000
594000
595000
596000
597000
598000
599000
600000
601000
GPS Time (TOW, GMT zone)
Roll
Pitch

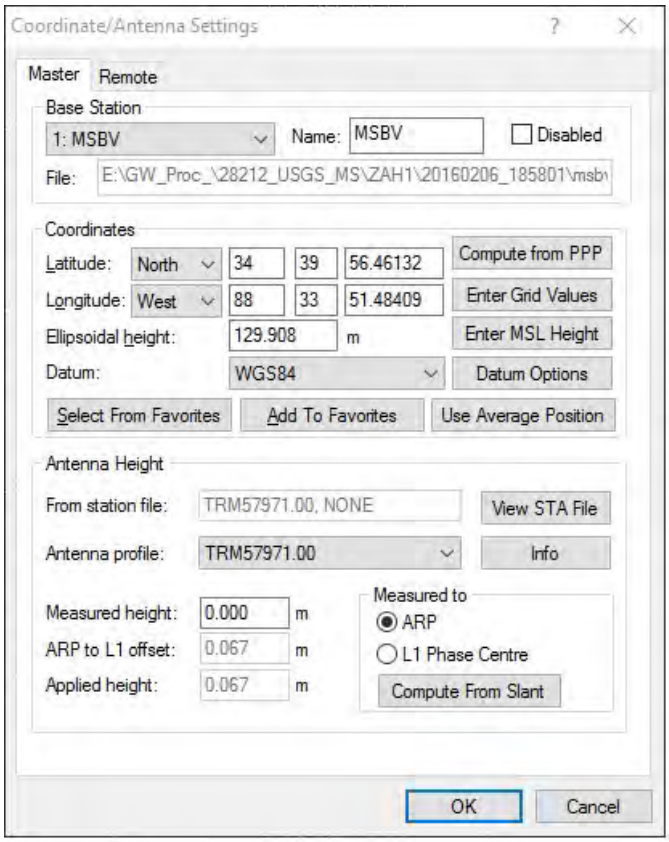

Height (m)
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
587000
Week 1882
588000
589000
590000
591000
592000
593000
594000
595000
596000
597000
598000
599000
600000
601000
GPS Time (TOW, GMT zone)
Height


RMS (m)
0.046
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
587000
Week 1882
588000
589000
590000
591000
592000
593000
594000
595000
596000
597000
598000
599000
600000
601000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
-28
-30
-32
-34
-36
-38
-40
-42
-44
-46
-48
-50
-52
-54
-56
-58
-60
587000
Week 1882
588000
589000
590000
591000
592000
593000
594000
595000
596000
597000
598000
599000
600000
601000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
587000
Week 1882
588000
589000
590000
591000
592000
593000
594000
595000
596000
597000
598000
599000
600000
601000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
2: Carol Cone
Name:
Carol Cone
Disabled
File:
E:\GW_Proc_\28212_usgs_ms\Zah1\Sn7178_020616ab\BaseSt
Coordinates
Latitude:
North
34
15
52.68896
Compute from PPP
Longitude:
West
88
45
58.13669
Enter Grid Values
Ellipsoidal height:
79.621
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
N/A
View STA File
Antenna profile:
NOV702GG
Info
Measured height:
2.000
m
ARP to L1 offset:
0.067
m
Applied height:
2.067
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSBV
Name: MSBV
Disabled
File: E:\GW_Proc_\28212_USGS_MS\ZAH1\20160206_185801\msb
Coordinates
Latitude: North 34 39 56.46132
Longitude: West 88 33 51.48409
Ellipsoidal height: 129.908 m
Datum: WGS84
Compute from PPP
Enter Grid Values
Enter MSL Height
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file: TRM57971.00, NONE
View STA File
Antenna profile: TRM57971.00
Info
Measured height: 0.000 m
ARP to L1 offset: 0.067 m
Applied height: 0.067 m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log

YYYYMMDD_TIME(GPS)

OPERATORS FLIGHT LOG SN7178_20160206B

MISSION: v 20160206_185801 DATE: 2/6/16 LEICA ALS-70 DI2

PILOT: Smelser OPERATOR: Iverson AIRCRAFT: N226E

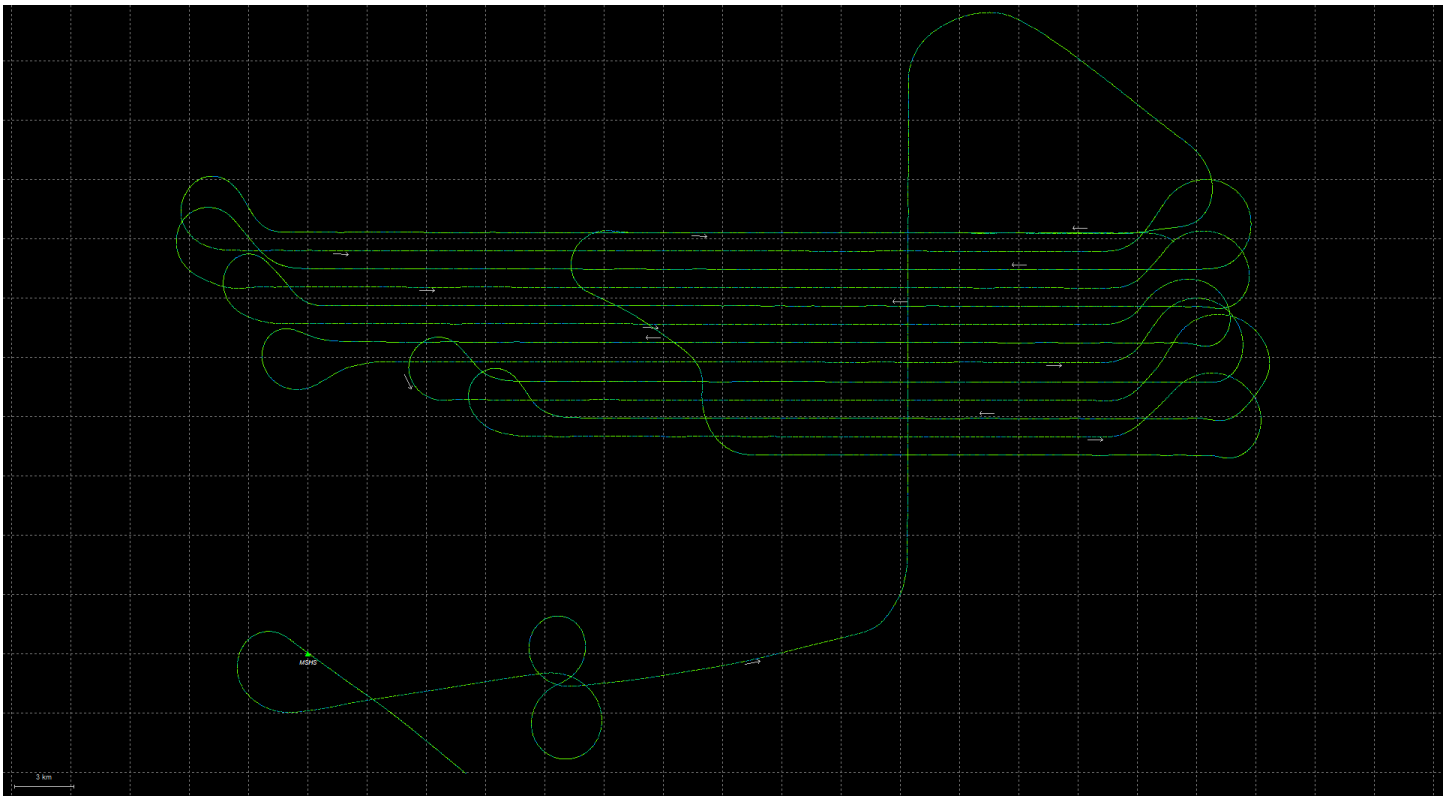
PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS (MPiA-Disabled/Enabled) (WF Settings)
28212					53	40	273	255		1901		2	static B 8598.5 Hobbs
MS-USGS										1917			Take OFF KTUP 1911
										1923			cores MSBV
										1929	1935		figure 8
		238	S	168	53	40	273	255	6791	1939	1951	2	
237		237	N	166					6791	2003	2016		
		236	S	169					6801	2019	2031		
		235	N	168					6804	2035	2047		
		234	S	167					6811	2051	2103		
		233	N	159					6817	2107	2118		
		232	S	161					6844	2122	2134		
		~~231~~	~~TB~~	~~163~~					~~6850~~				Abort Line traffic
		231	N	157					6850	2149	2200		
		230	S	170					6844	2204	2215		
		XF	E	161					6860	2219	2225		cross flight
										2226	2230		figure 8
											2232		cores MSBV
											2244		Land KTUP 8602.0 Hobbs
											2251		static B

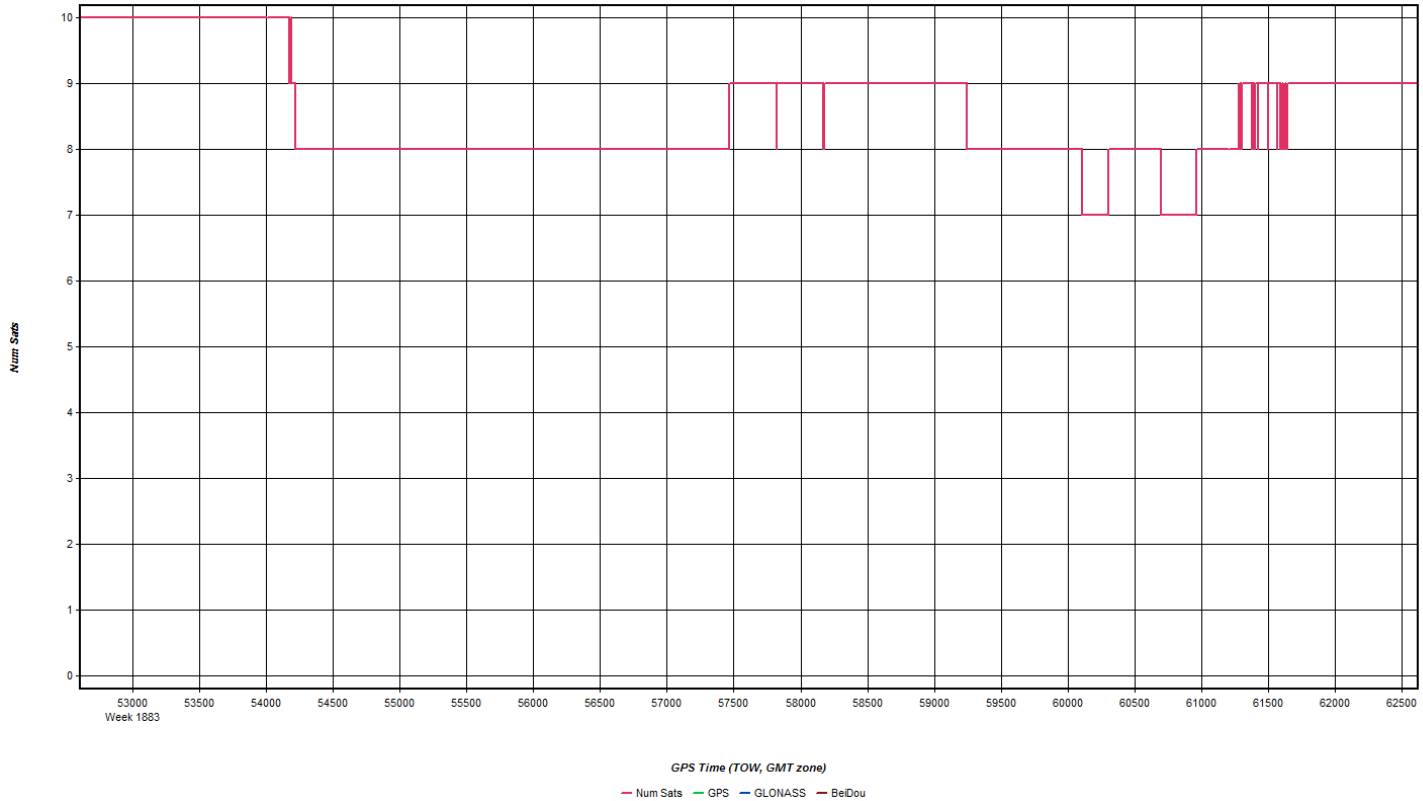
STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	FIXED GAIN	Flying Ht. (m)	STATIC START	STATIC STOP	NOTES:
○								B 1901	2251	
○								WX		
○										

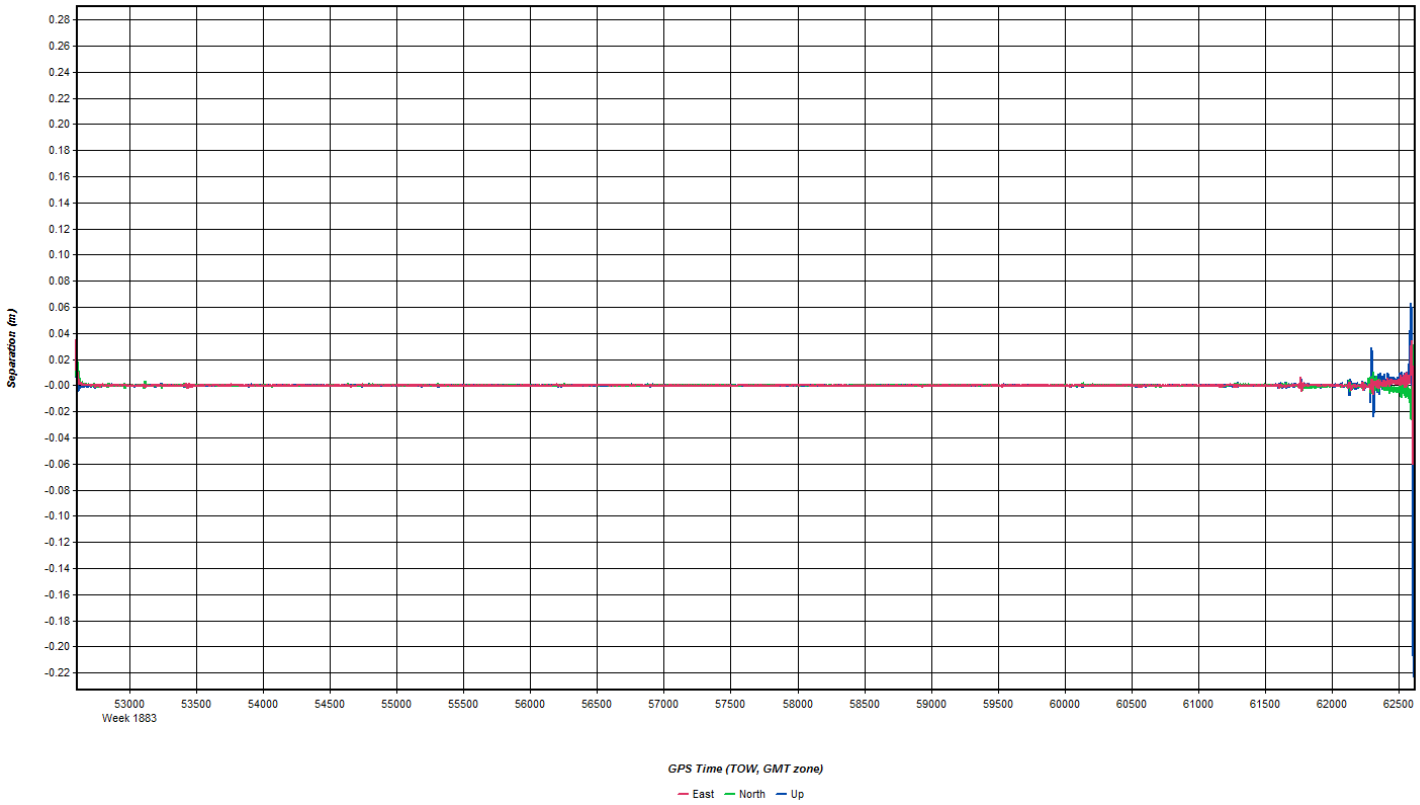
AERO-METRIC, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 **FAX: 888-253-6695** E-Mail: amephoto@aerometric.com

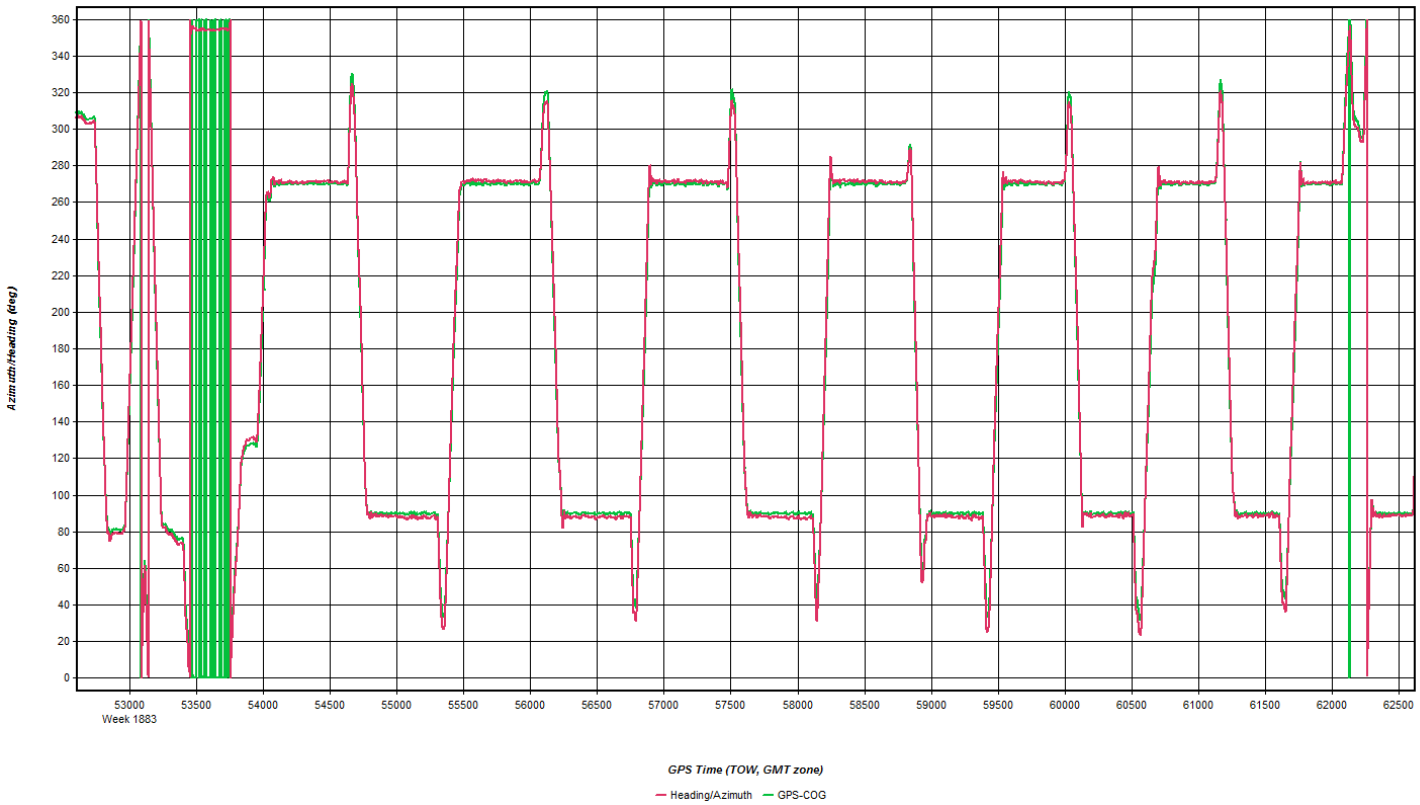
North AOI - UTM Zone 16

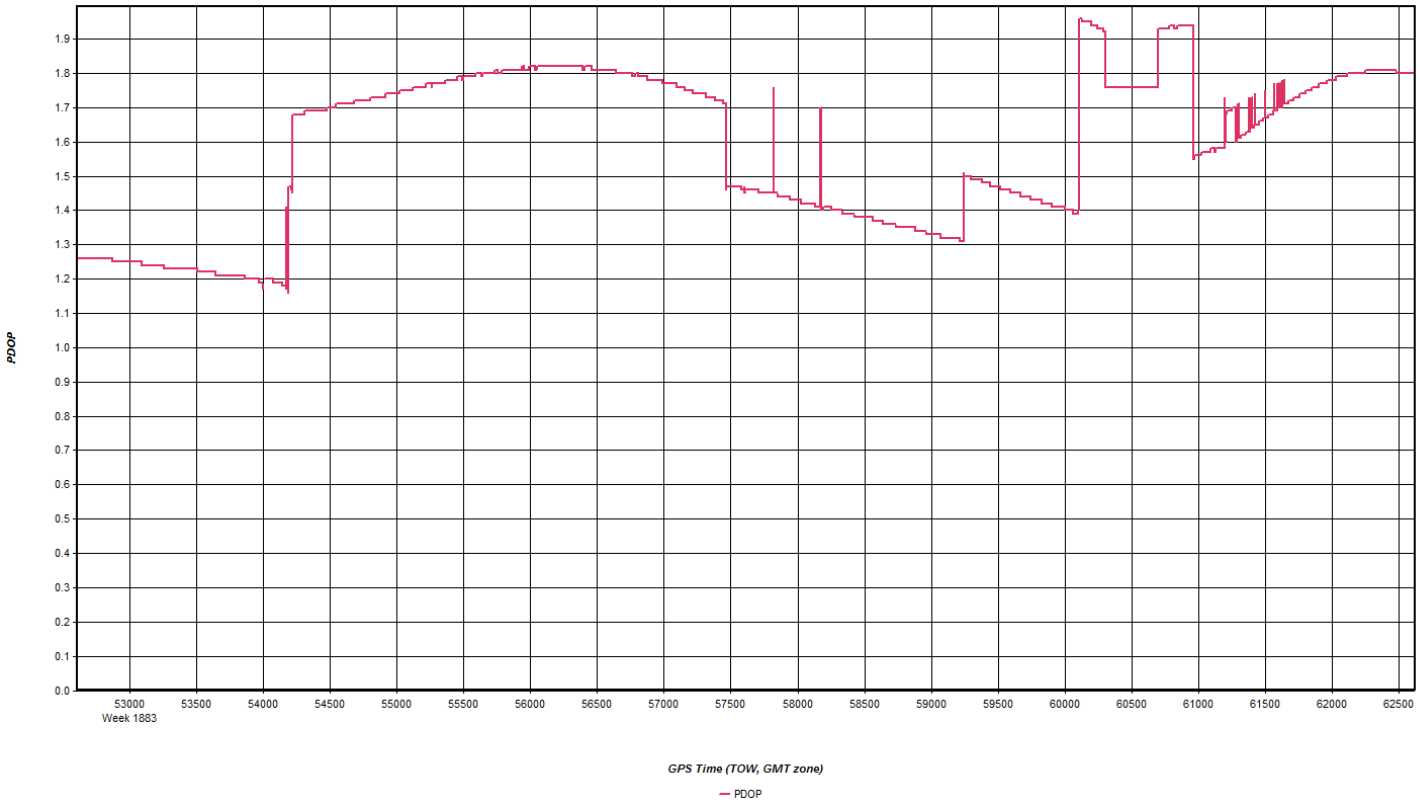
Feb 7, 2016-A (N22GE, SN7178)

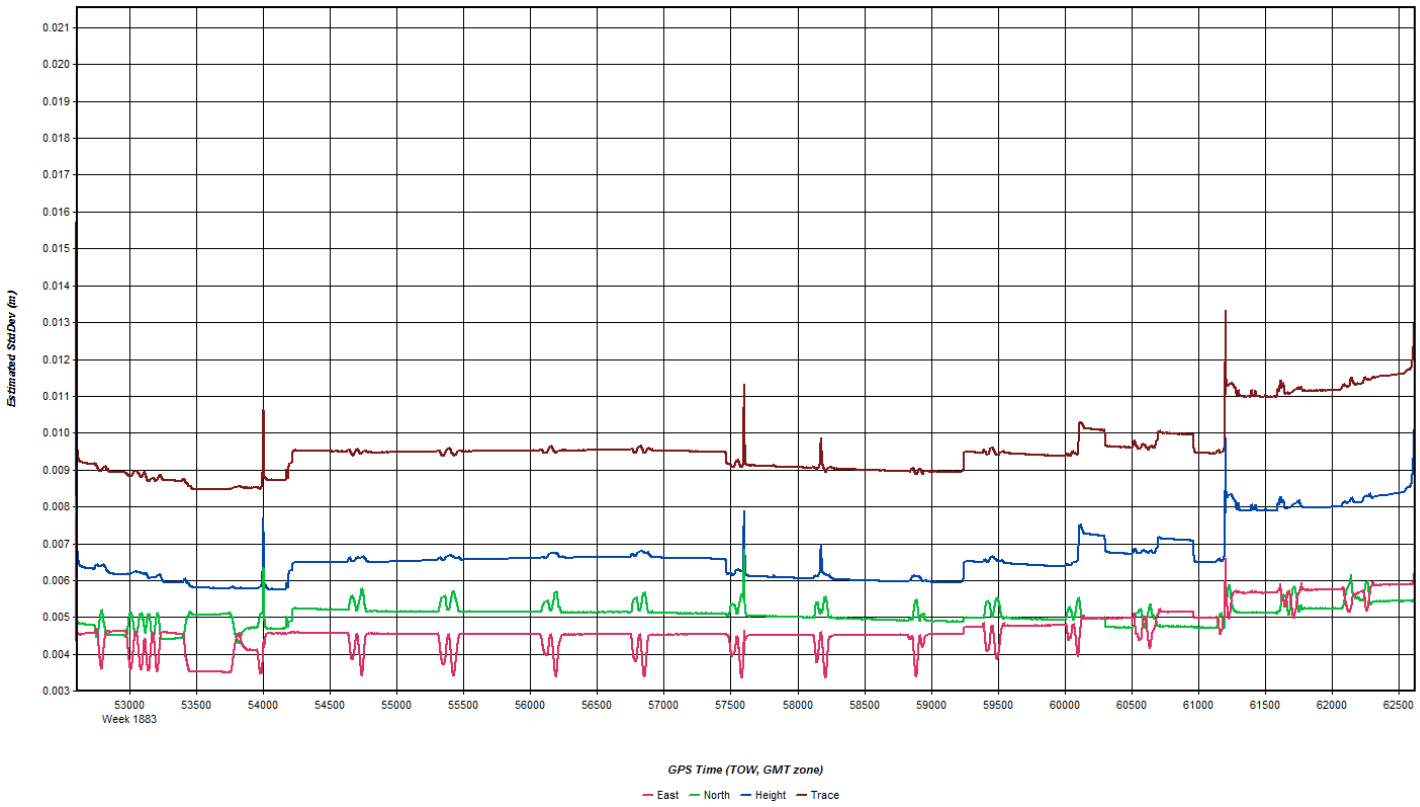

MSHS
3 km

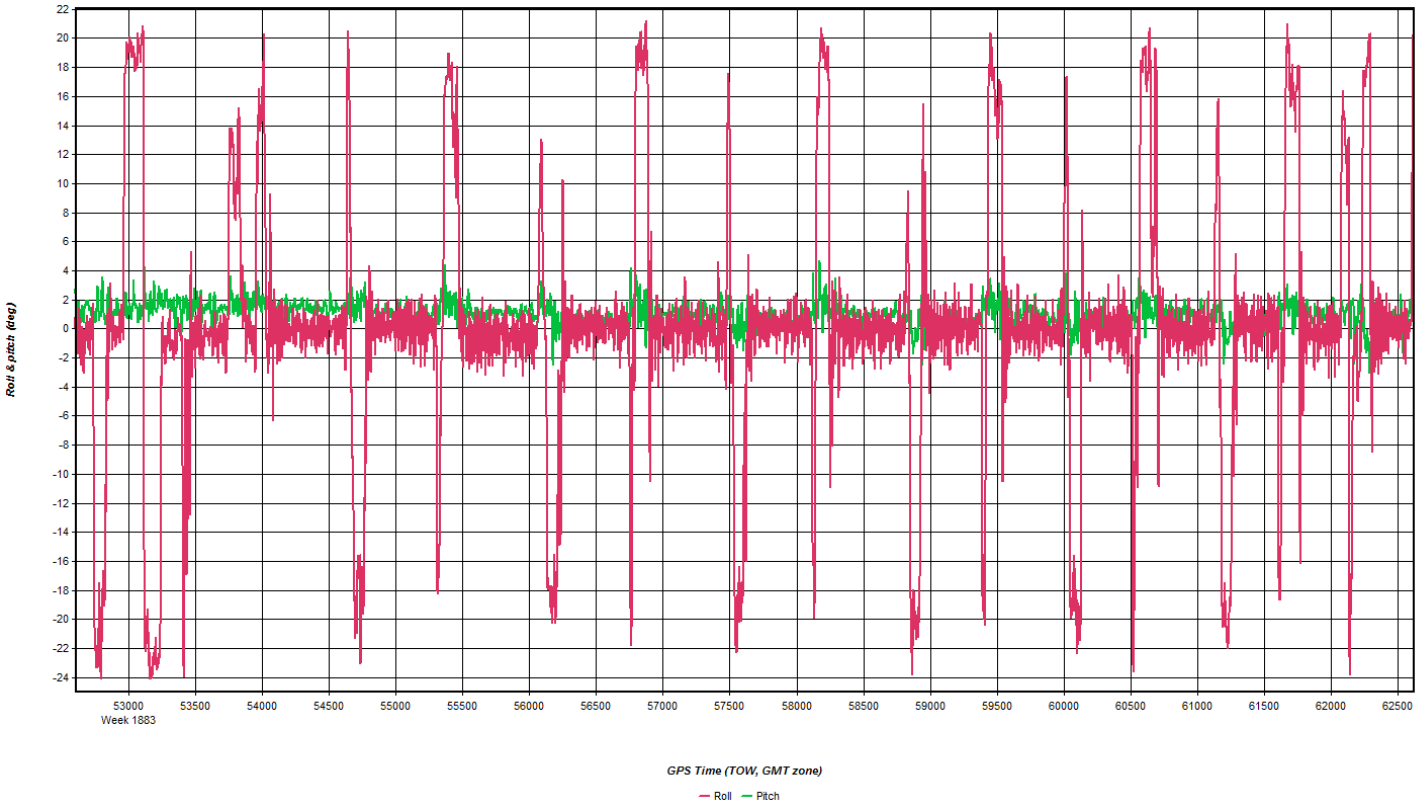

Num Sats
10
9
8
7
6
5
4
3
2
1
0
53000
Week 1883
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

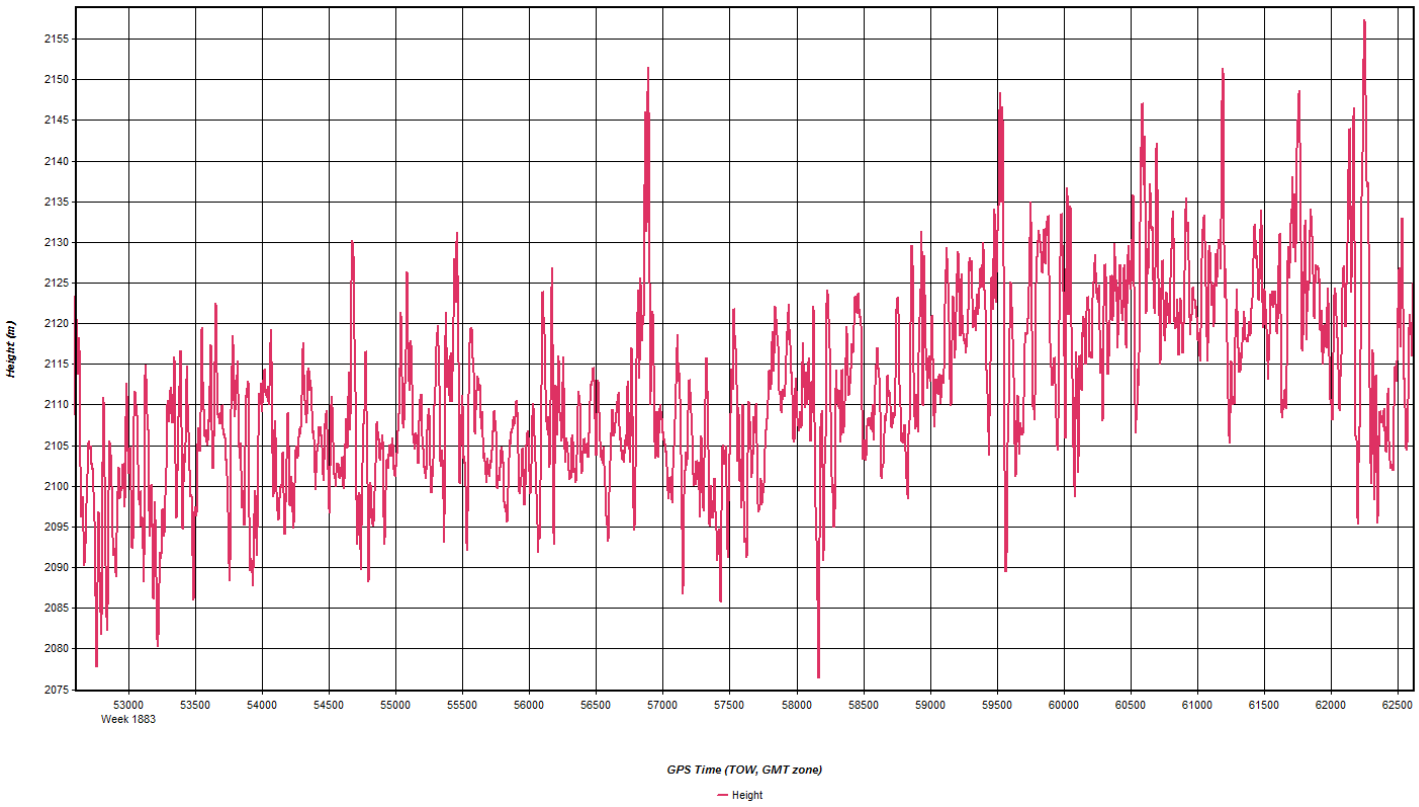

Separation (m)
0.28
0.26
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
-0.00
-0.02
-0.04
-0.06
-0.08
-0.10
-0.12
-0.14
-0.16
-0.18
-0.20
-0.22
53000
Week 1883
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
GPS Time (TOW, GMT zone)
East
North
Up

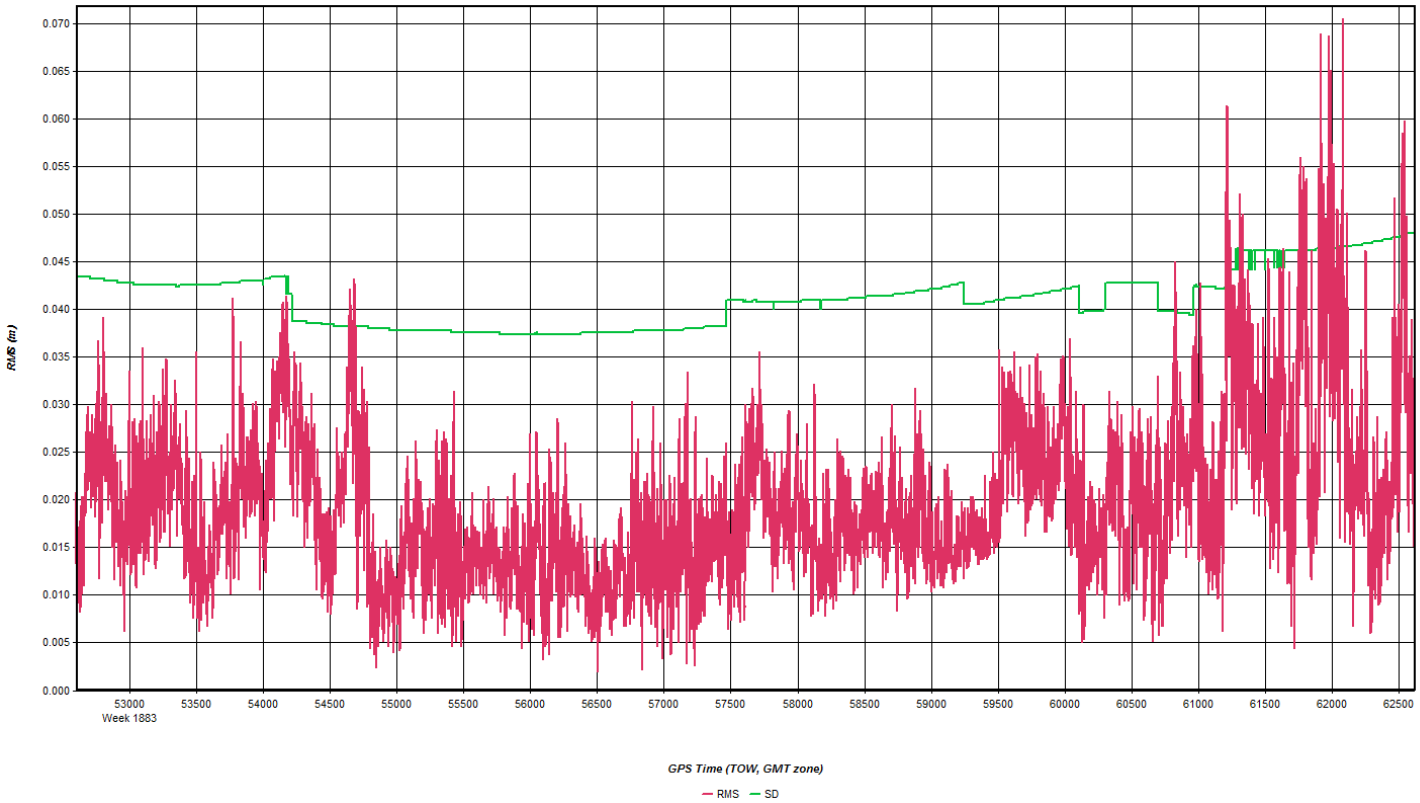

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
53000
Week 1883
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

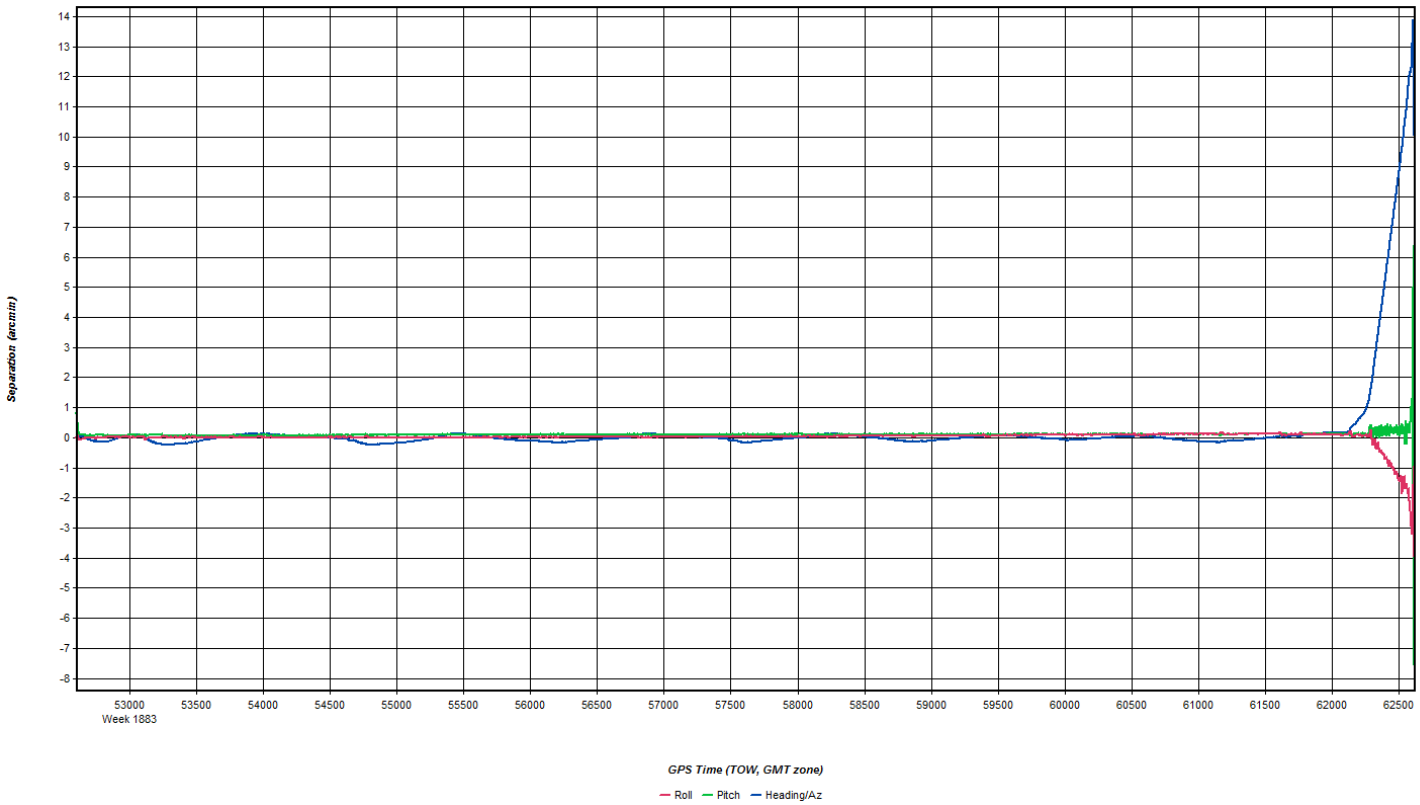

PDOP
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
53000
Week 1883
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
GPS Time (TOW, GMT zone)
PDOP

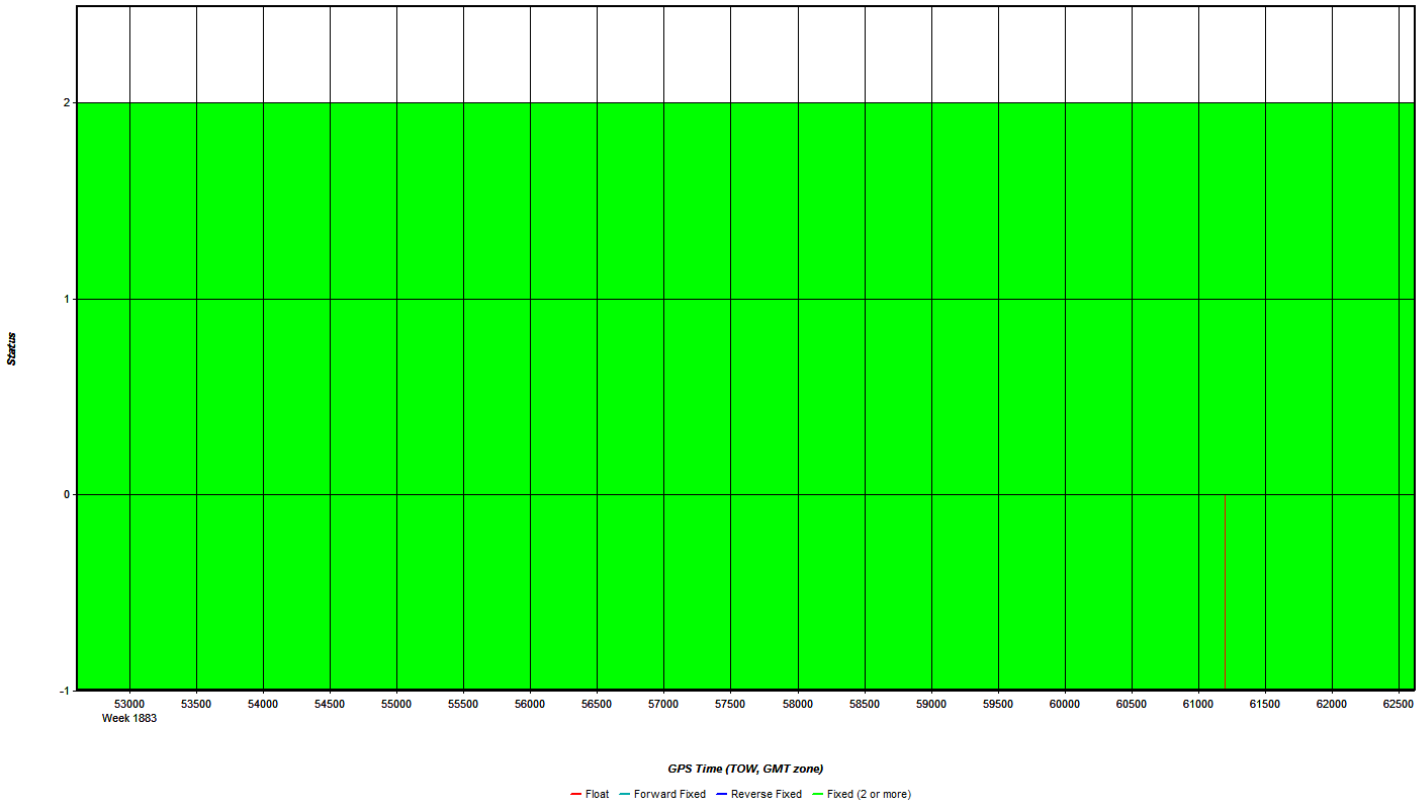

Estimated StdDev (m)
0.021
0.020
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.010
0.009
0.008
0.007
0.006
0.005
0.004
0.003
53000
Week 1883
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
GPS Time (TOW, GMT zone)
East
North
Height
Trace

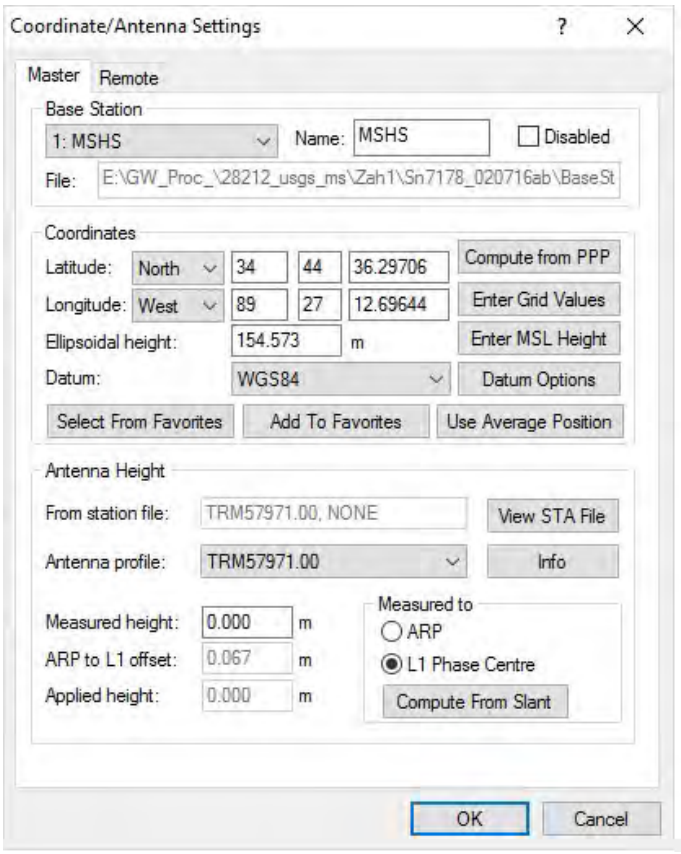

Roll & pitch (deg)
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
53000
Week 1883
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
GPS Time (TOW, GMT zone)
Roll
Pitch


Height (m)
2155
2150
2145
2140
2135
2130
2125
2120
2115
2110
2105
2100
2095
2090
2085
2080
2075
53000
Week 1883
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
GPS Time (TOW, GMT zone)
Height


RMS (m)
0.070
0.065
0.060
0.055
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
53000
Week 1883
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
-1
-2
-3
-4
-5
-6
-7
-8
53000
Week 1883
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
53000
Week 1883
53500
54000
54500
55000
55500
56000
56500
57000
57500
58000
58500
59000
59500
60000
60500
61000
61500
62000
62500
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSHS
Name:
MSHS
Disabled
File:
E:\GW_Proc_\28212_usgs_ms\Zah1\Sn7178_020716ab\BaseSt
Coordinates
Latitude:
North
34
44
36.29706
Compute from PPP
Longitude:
West
89
27
12.69644
Enter Grid Values
Ellipsoidal height:
154.573
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM57971.00, NONE
View STA File
Antenna profile:
TRM57971.00
Info
Measured height:
0.000
m
ARP to L1 offset:
0.067
m
Applied height:
0.000
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log

20160207_140216
YYYYMMDD_TIME(GPS)

OPERATORS FLIGHT LOG

SN7178_020716A

MISSION: V[redacted] DATE: 2/7/16 LEICA ALS-70 DI1

PILOT: Smelser OPERATOR: Iverson AIRCRAFT: N226E

PROJECT NUMBER AND NAME	LINE No.	Lbl	Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS (MPiA-Disabled/Enabled) (WF Settings)
28212					53	40	273	255		1405		2	staticA 8602.0 Hobbs
MS-USGS										1419			Take OFF KTUP
										1438			cores MSHS
										1442	1447		figure 8
		199	N	159	53	40	273	255	6919	1451	1455	2	
		107	W	146					6890	1501	1510		off a little at start Reflyy East end
		108	E	160					6883	1513	1521		
		109	W	152					6893	1525	1534		
		110	E	169					6900	1537	1545		
		111	W	150					6906	1549	1558		
		112	E	165					6922	1600	1608		
		113	W	147					6932	1611	1619		
		114	E	170					6936	1623	1629		
		115	W	152					6951	1633	1639		
		116	E	170					6959	1643	1648		
		117	W	148					6949	1652	1658		
		118	E	171					6923	1702	1706		
		119	W	150					6929	1710	1714		
107		107	E	170					6890	1719	1723		Reflyy Eastern 11 miles

STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	
⊘ 28212		20	23	4.4	1.9	A	1405	1804	
○						WX			
○									

NOTES: Base set at KTUP
ship Drive: RAW_ZAH1
Back UpDrive: 2490

AERO-METRIC, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 **FAX: 888-253-6695** E-Mail: amephoto@aerometric.com

YYYYMMDD_TIME(GPS)

OPERATORS FLIGHT LOG

SN7178_020716A

MISSION: v 20160207_140216 | DATE: 2/7/16 | LEICA ALS-70 | DI2

PILOT: Smelser | OPERATOR: Iverson | AIRCRAFT: N22GE

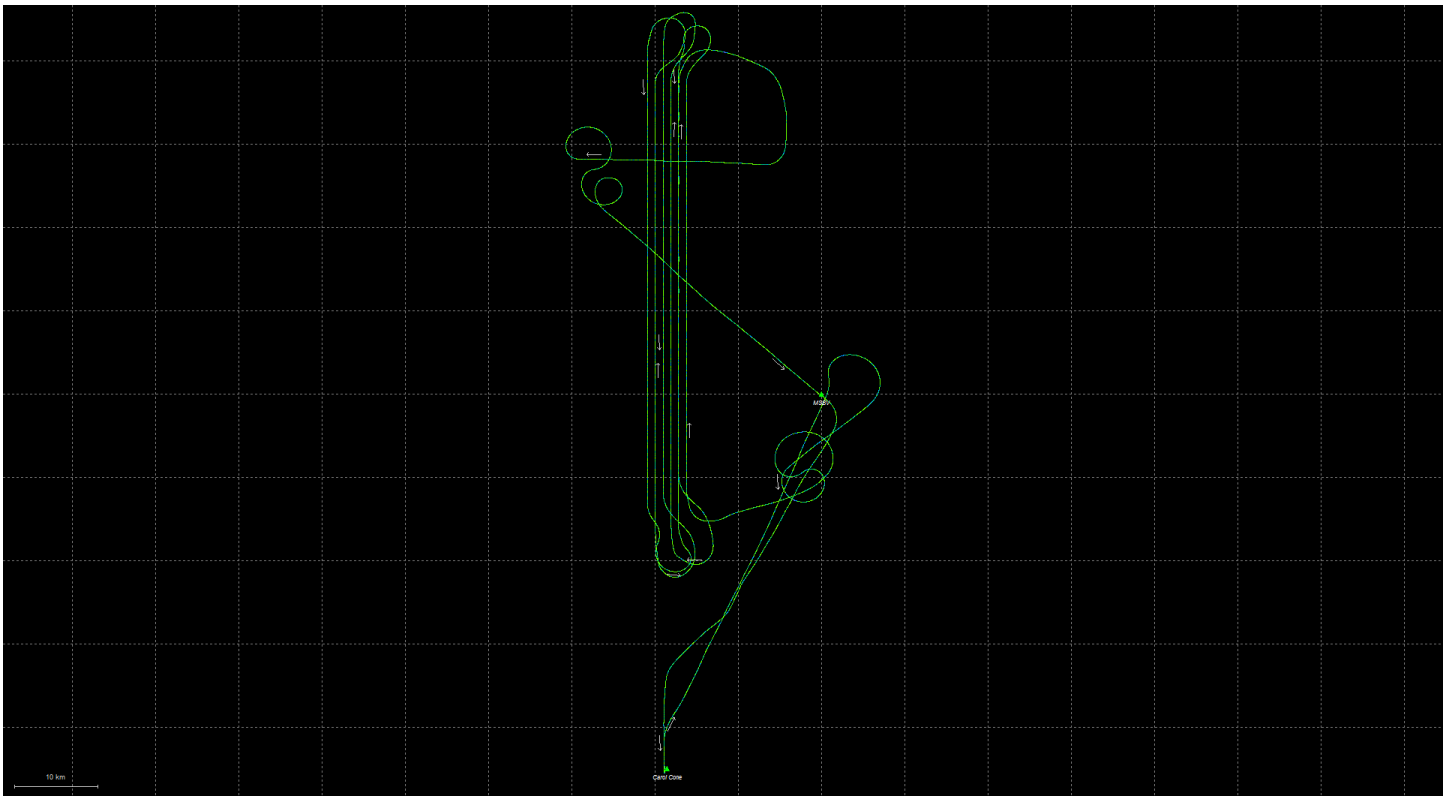
PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS (MPiA-Disabled/Enabled) (WF Settings)
28212					53	40	273	255	7000	1724	1729	2	figure 8 Data Logger Error
MS-USGS											1739		corse MSHS
											1756		Land KTUP 8605.7 Hobbs
											1804		static A
										1722	1724		Data Logger Error at 1723
													end of Line 107 E

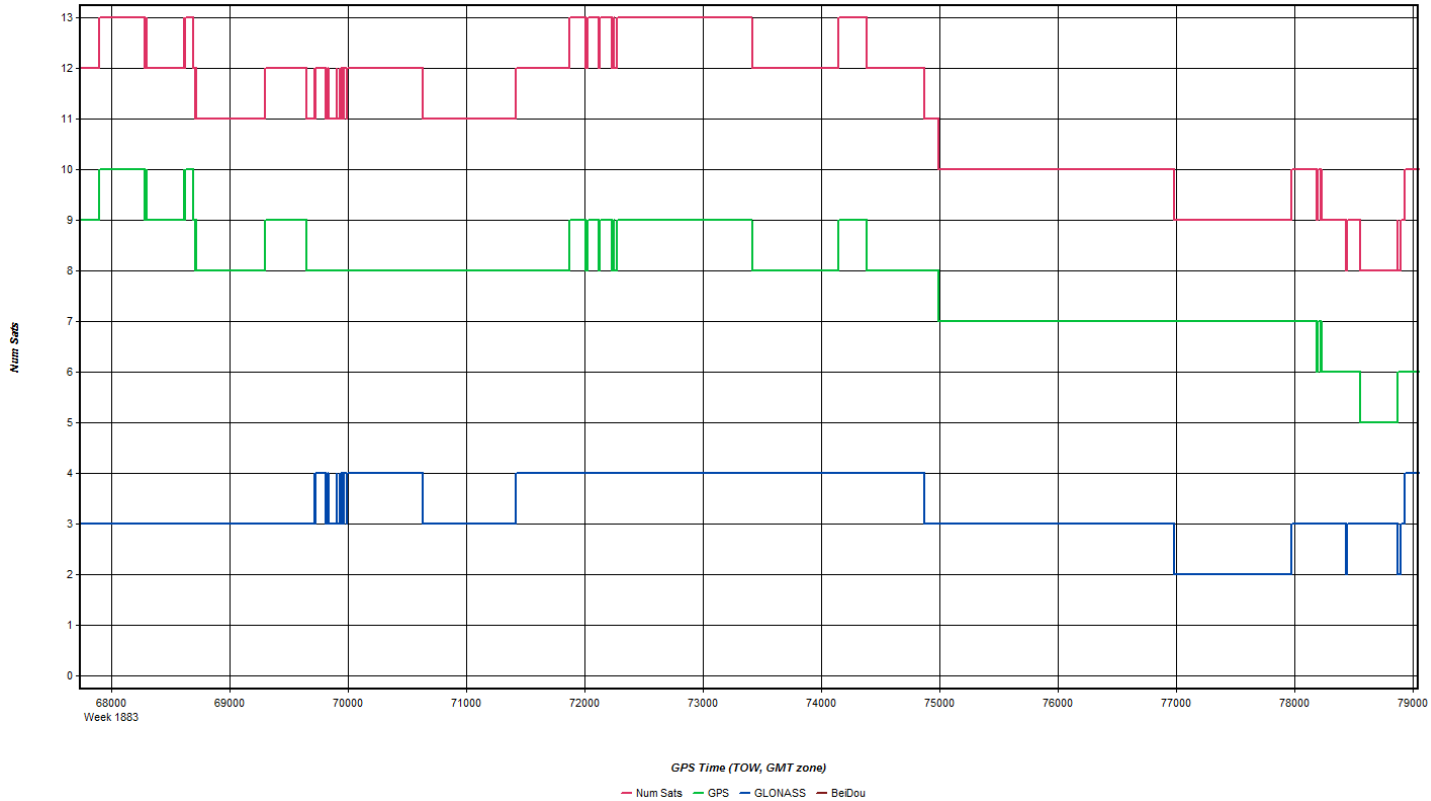
STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP		NOTES:
○										
○						WX				
○										

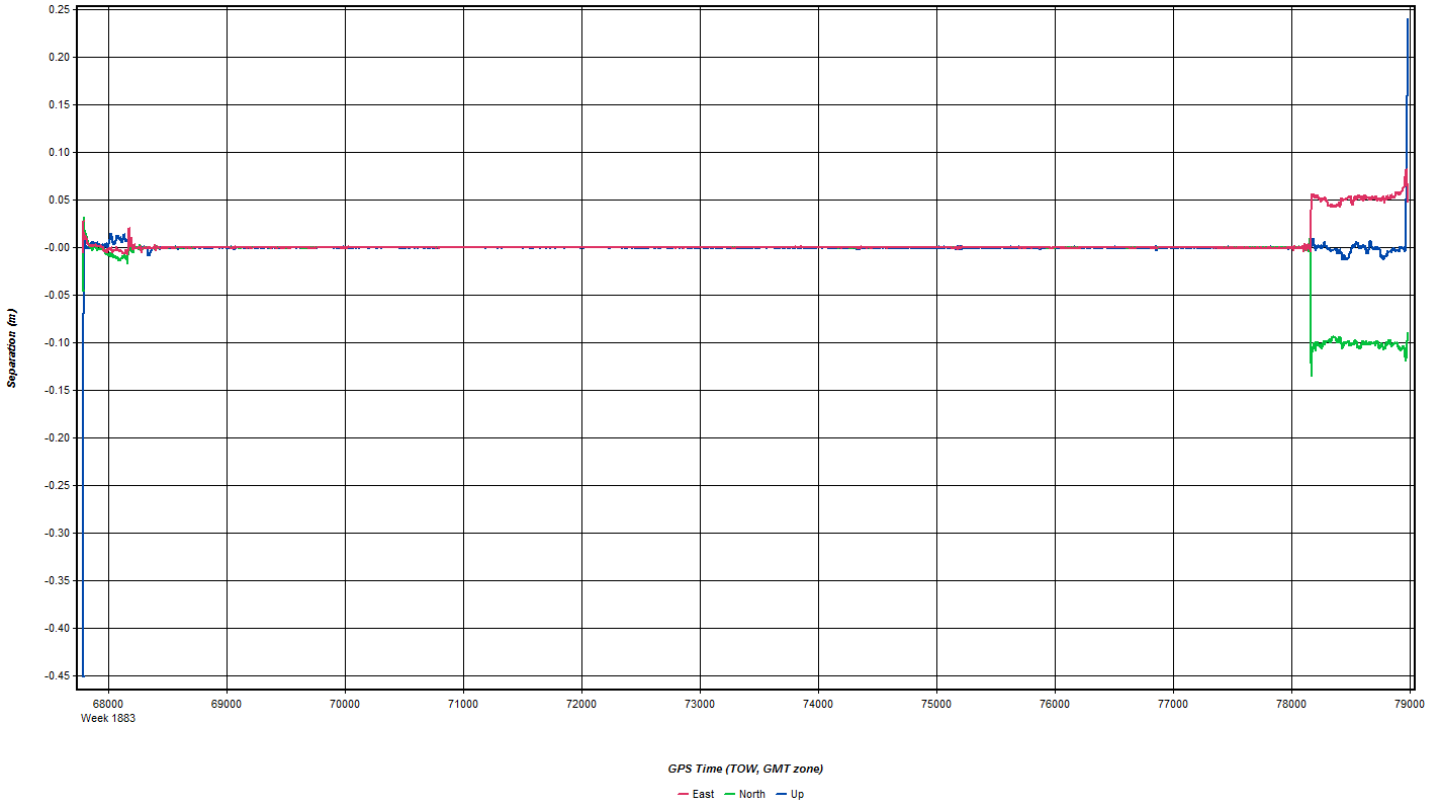
AERO-METRIC, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 **FAX: 888-253-6695** E-Mail: amephoto@aerometric.com

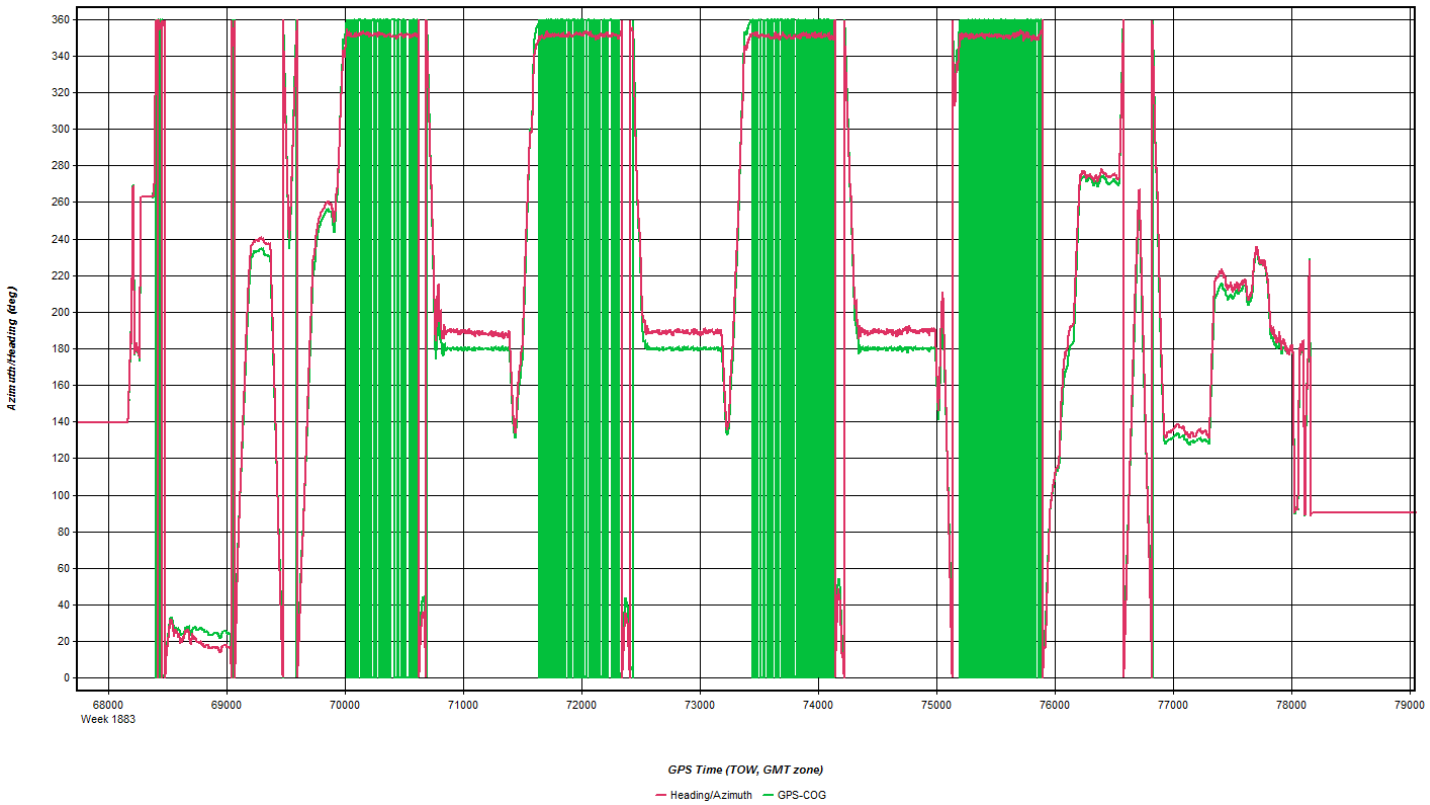
North AOI - UTM Zone 16

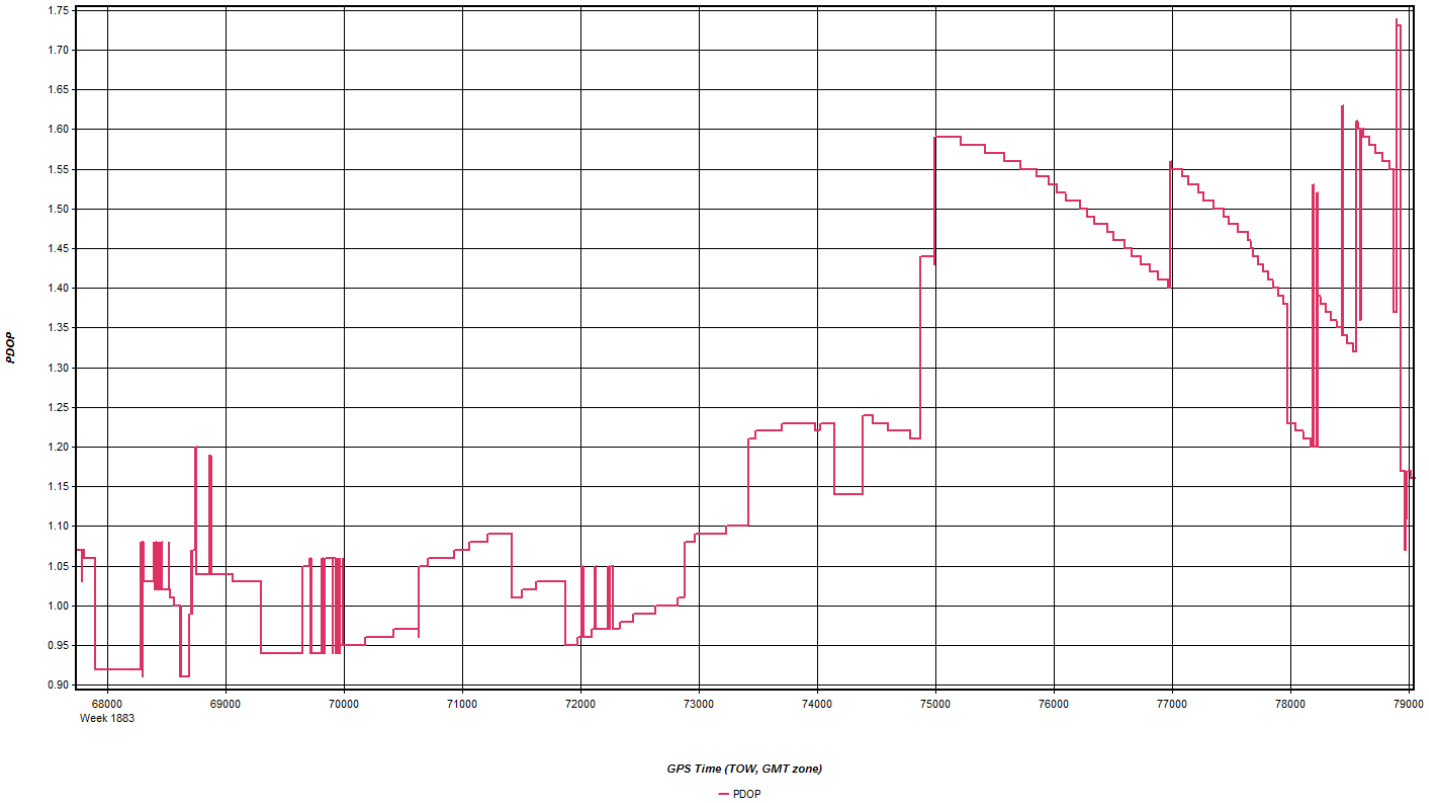
Feb 7, 2016-B (N22GE, SN7178)

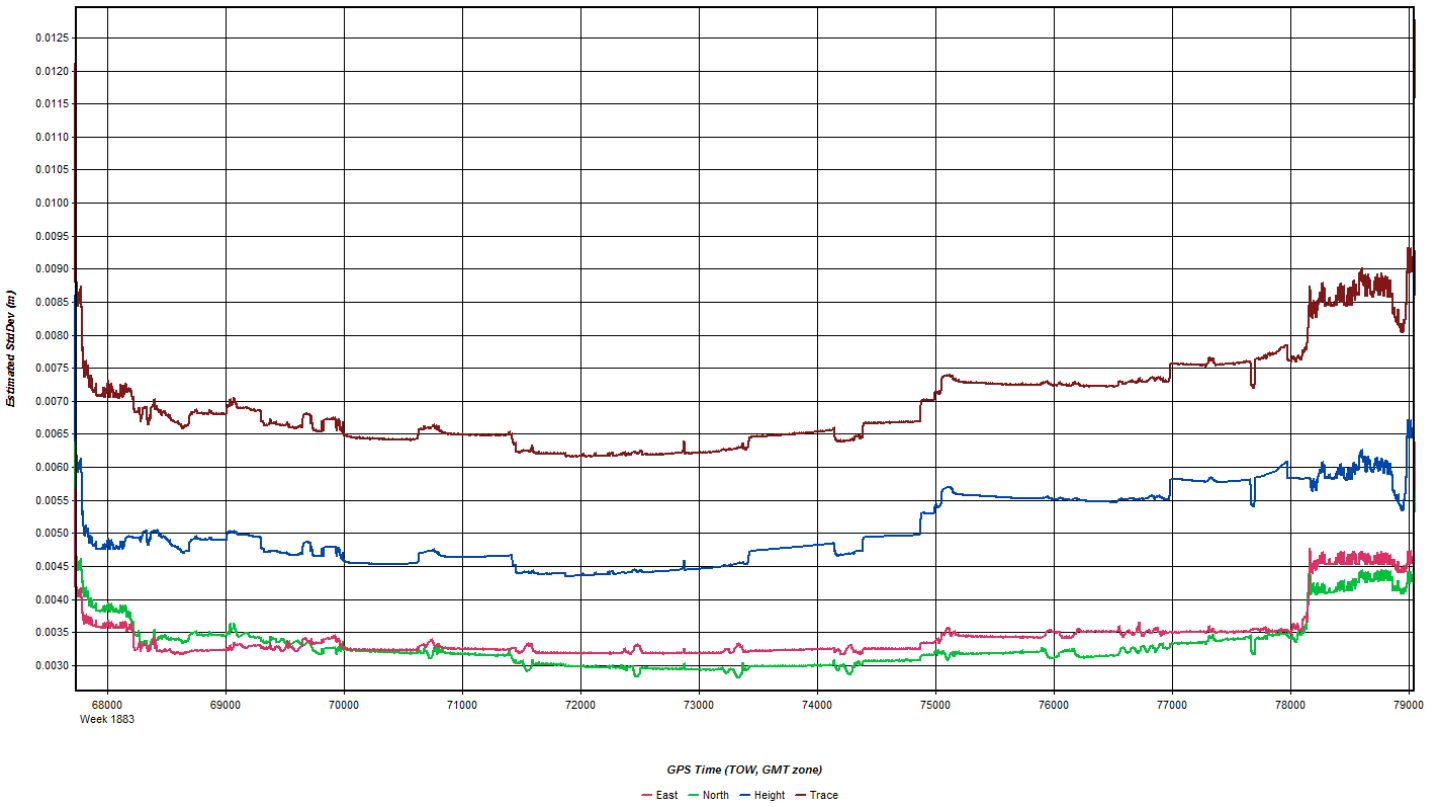

10 km
Carol Cone

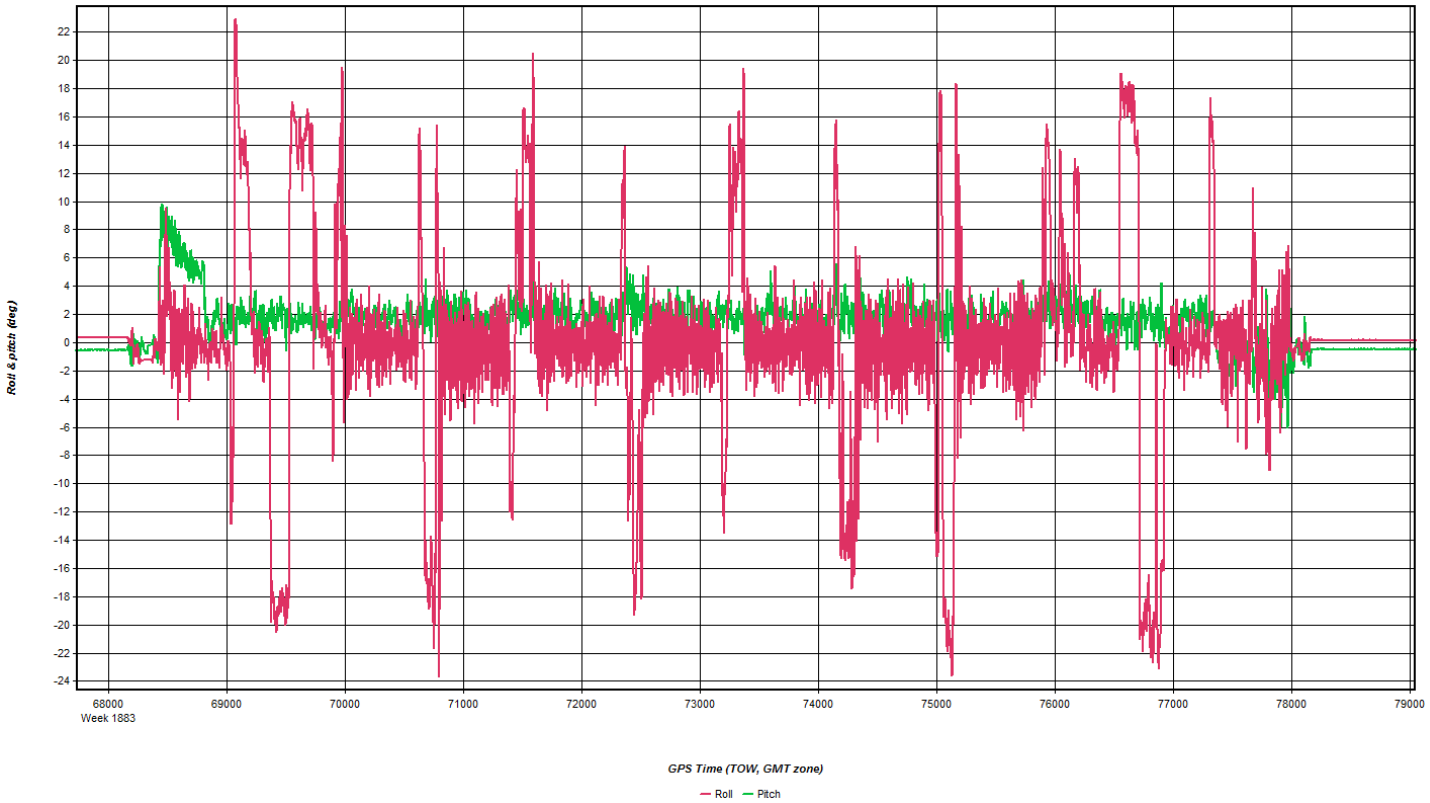

Num Sats
13
12
11
10
9
8
7
6
5
4
3
2
1
0
68000
Week 1883
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

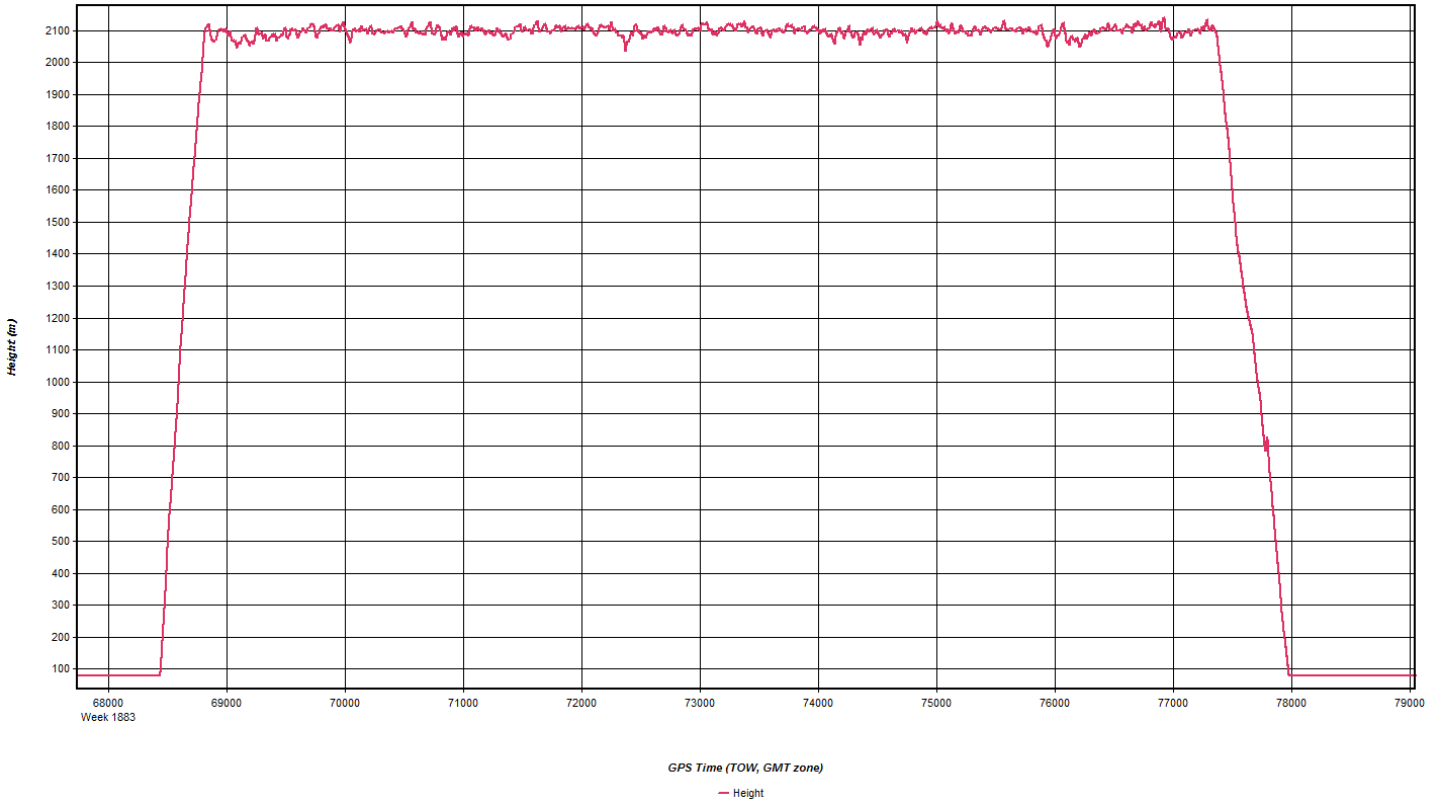

Separation (m)
0.25
0.20
0.15
0.10
0.05
0.00
-0.05
-0.10
-0.15
-0.20
-0.25
-0.30
-0.35
-0.40
-0.45
68000
Week 1883
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
GPS Time (TOW, GMT zone)
East
North
Up

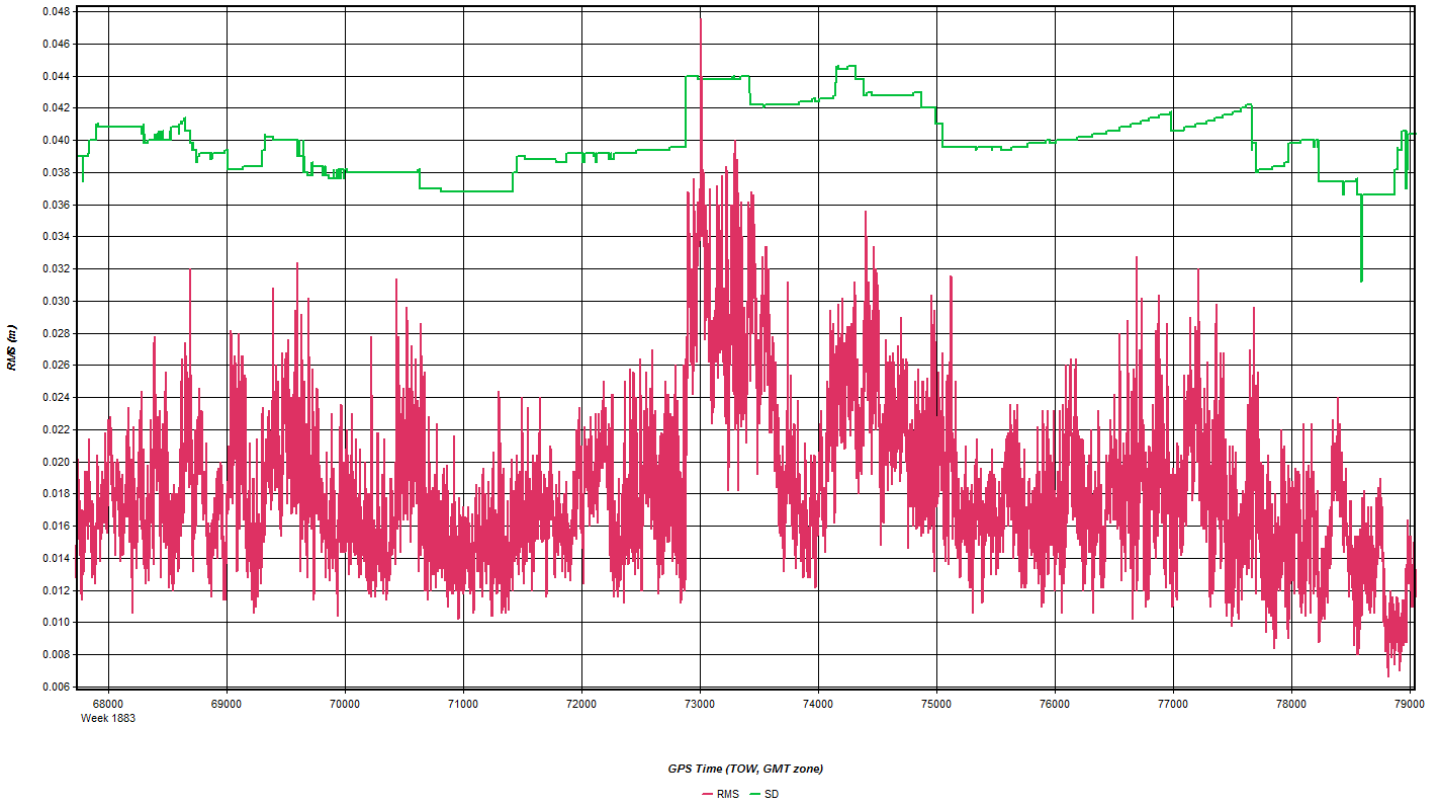

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
68000
Week 1883
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

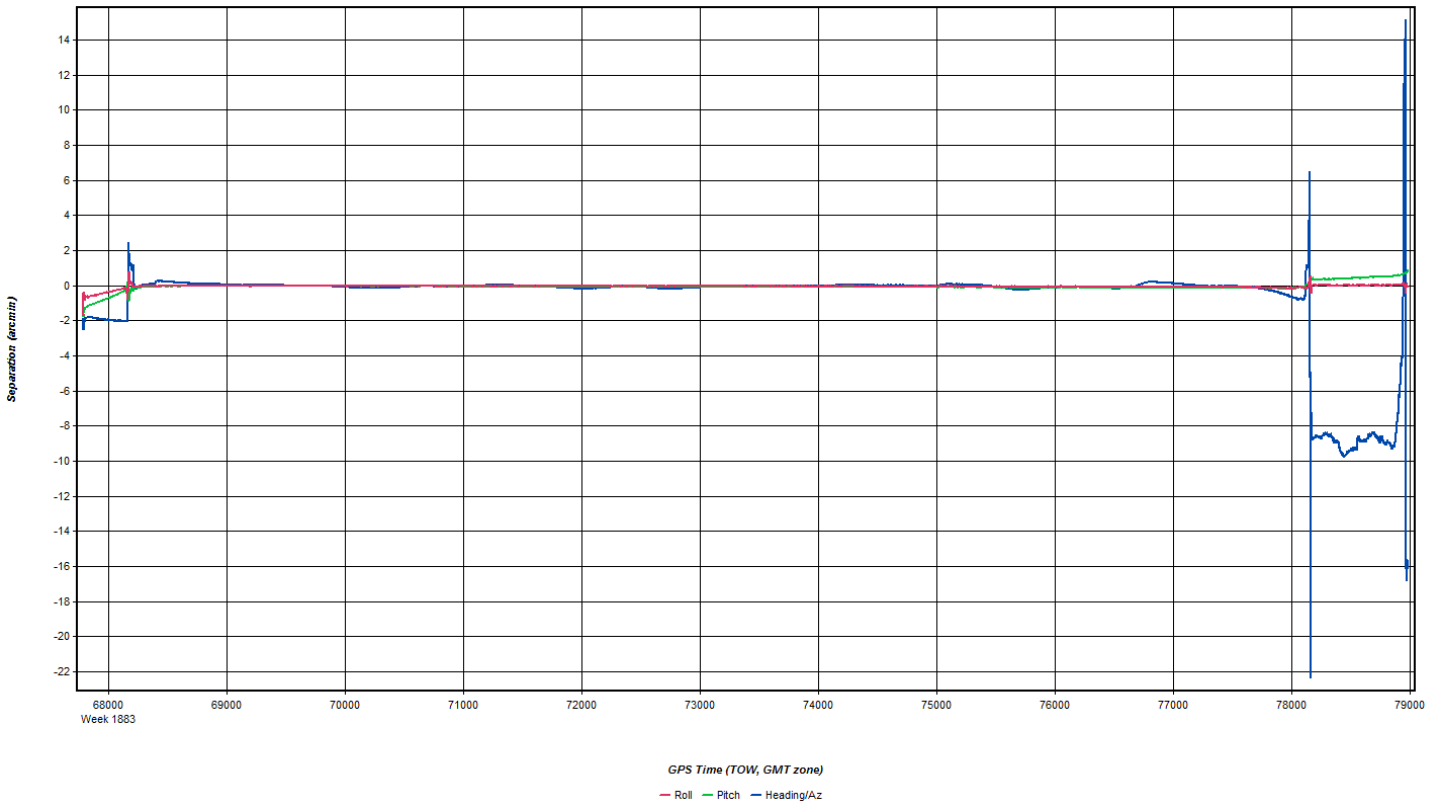

PDOP
1.75
1.70
1.65
1.60
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
0.95
0.90
68000
Week 1883
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
GPS Time (TOW, GMT zone)
PDOP

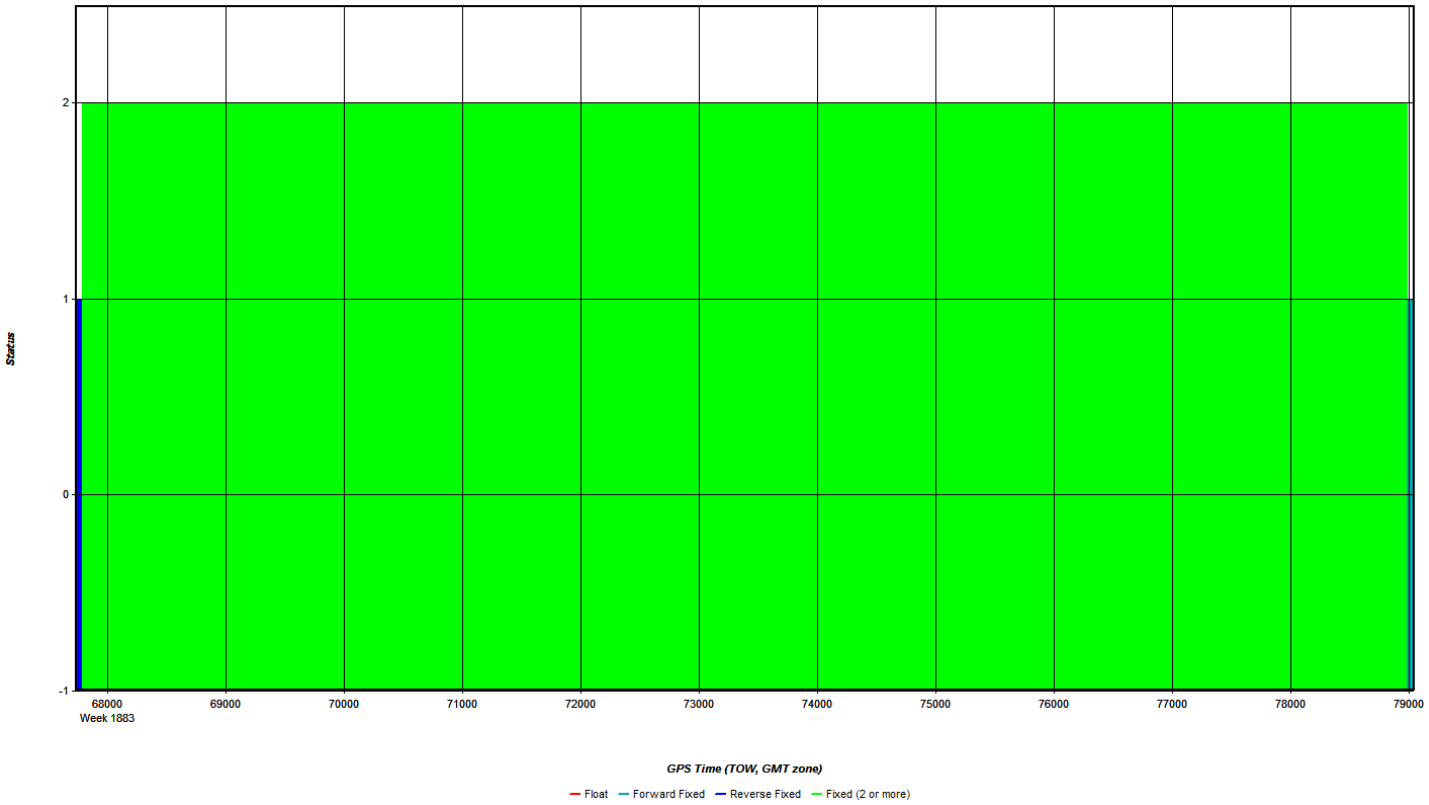

Estimated StdDev (m)
0.0125
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
68000
Week 1883
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

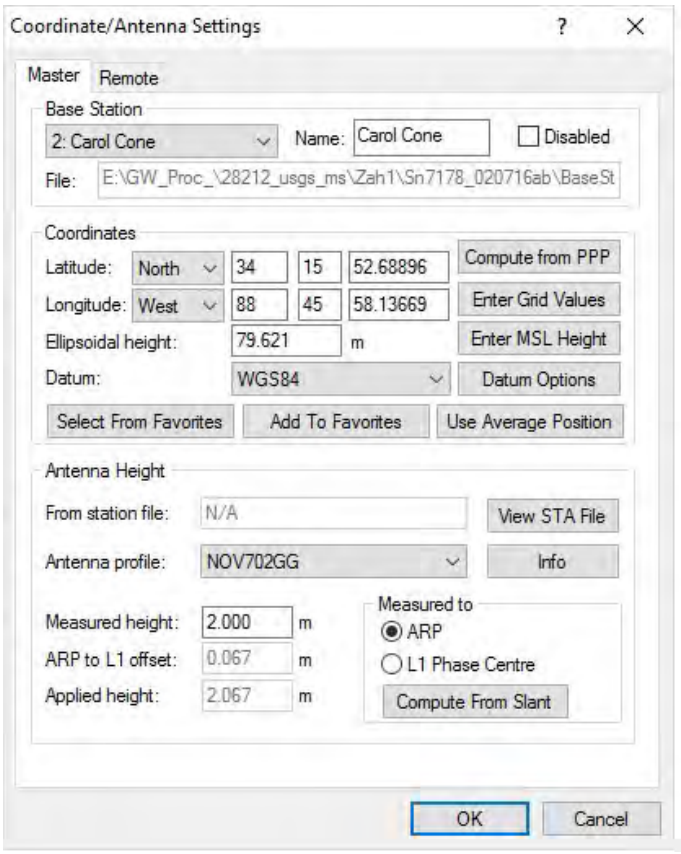

Roll & pitch (deg)
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
68000
Week 1883
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
GPS Time (TOW, GMT zone)
Roll
Pitch

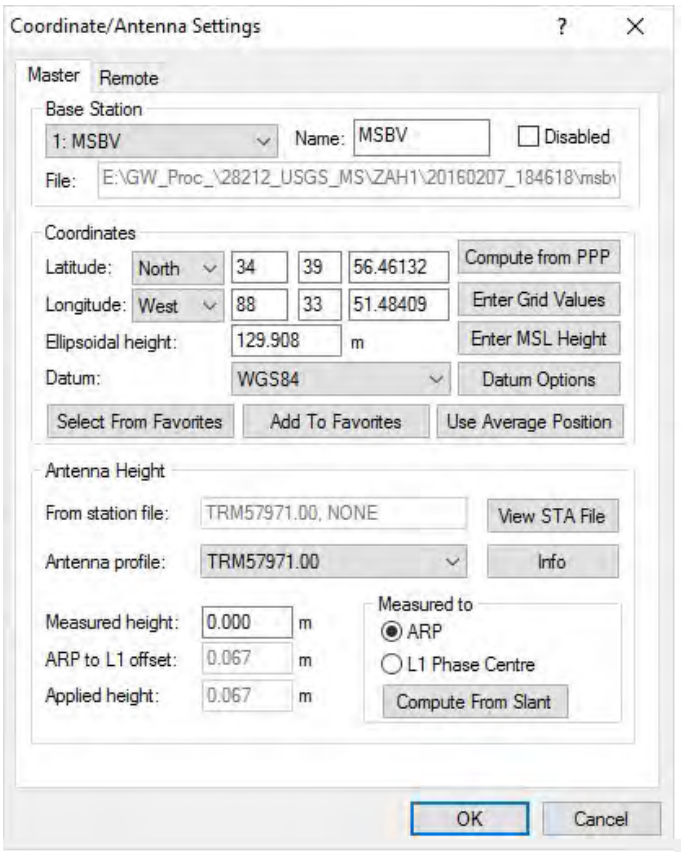

Height (m)
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
68000
Week 1883
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
GPS Time (TOW, GMT zone)
Height


RMS (m)
0.048
0.046
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
68000
Week 1883
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
68000
Week 1883
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
68000
Week 1883
69000
70000
71000
72000
73000
74000
75000
76000
77000
78000
79000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
2: Carol Cone
Name:
Carol Cone
Disabled
File:
E:\GW_Proc_\28212_usgs_ms\Zah1\Sn7178_020716ab\BaseSt
Coordinates
Latitude:
North
34
15
52.68896
Compute from PPP
Longitude:
West
88
45
58.13669
Enter Grid Values
Ellipsoidal height:
79.621
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
N/A
View STA File
Antenna profile:
NOV702GG
Info
Measured height:
2.000
m
ARP to L1 offset:
0.067
m
Applied height:
2.067
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSBV
Name: MSBV
Disabled
File: E:\GW_Proc_\28212_USGS_MS\ZAH1\20160207_184618\msbv
Coordinates
Latitude: North 34 39 56.46132
Longitude: West 88 33 51.48409
Ellipsoidal height: 129.908 m
Datum: WGS84
Compute from PPP
Enter Grid Values
Enter MSL Height
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file: TRM57971.00, NONE
View STA File
Antenna profile: TRM57971.00
Info
Measured height: 0.000 m
ARP to L1 offset: 0.067 m
Applied height: 0.067 m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log

OPERATORS FLIGHT LOG SN7178-020716B

YYYYMMDD_TIME(GPS)

MISSION: v 20160207_184618 DATE: 2/7/16 LEICA ALS-70 DI3

PILOT: Smelser OPERATOR: Iverson AIRCRAFT: N226E

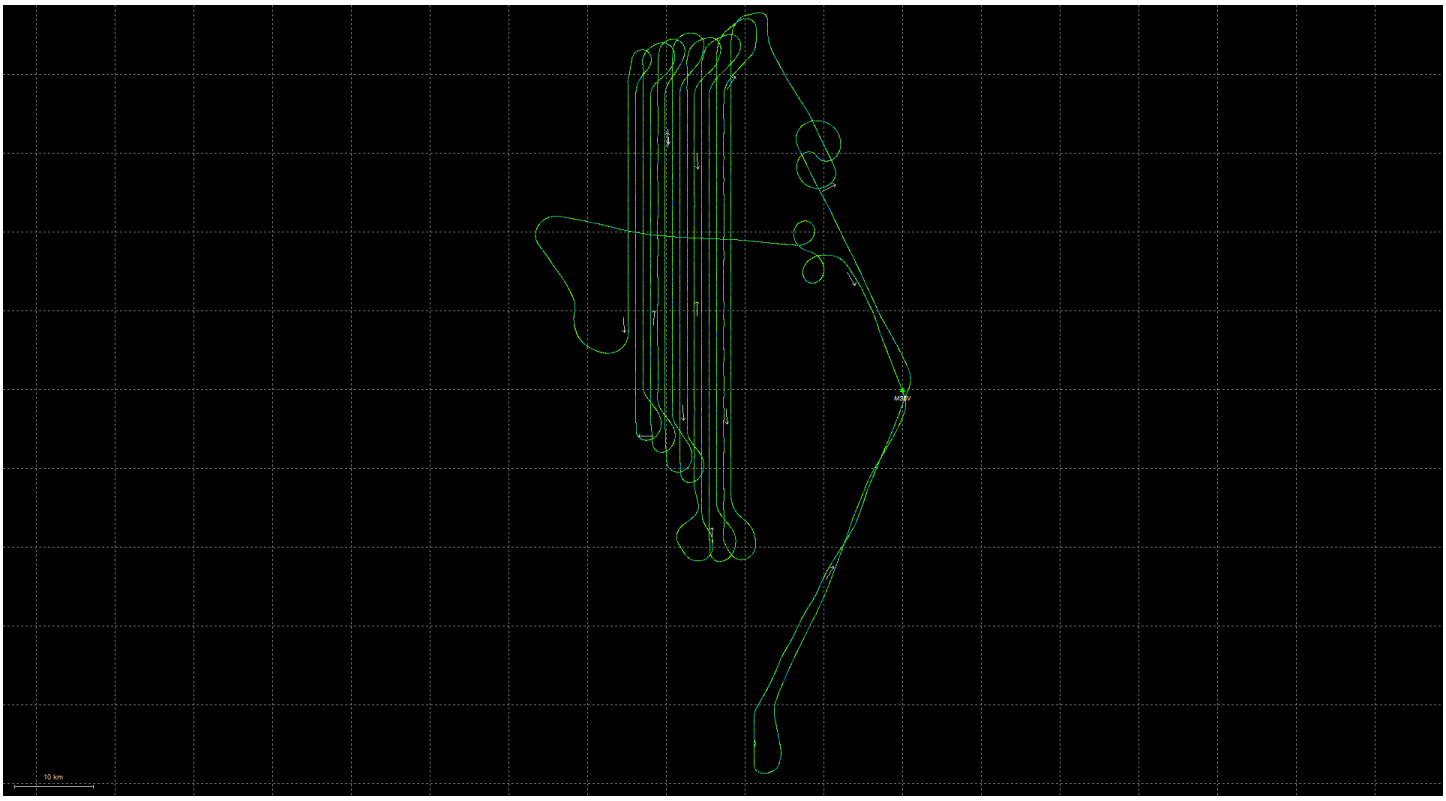
PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS (MPiA-Disabled/Enabled) (WF Settings)
28212					53	40	273	255		1849		2	static B 8605.7 Hobbs
MS-USGS										1900			Take OFF KTUP
										1910			cores MSBV
										1915	1922		figure 8
	229	N		146	53	40	273	255	6880	1927	1936	2	
	228	S		157					6880	1940	1949		off at start refly
	227	N		148					6870	1954	2005		
	226	S		160					6857	2009	2019		
	225	N		147					6847	2024	2035		
	224	S		165					6850	2039	2049		
	228	N		142					6880	2054	2104		
	XF	W		127					6850	2110	2115		cross flight
										2115	2121		figure 8
											2128		cores MSBV
											2139		Land KTUP 8508.3 Hobbs
											2147		static B
													High cross winds

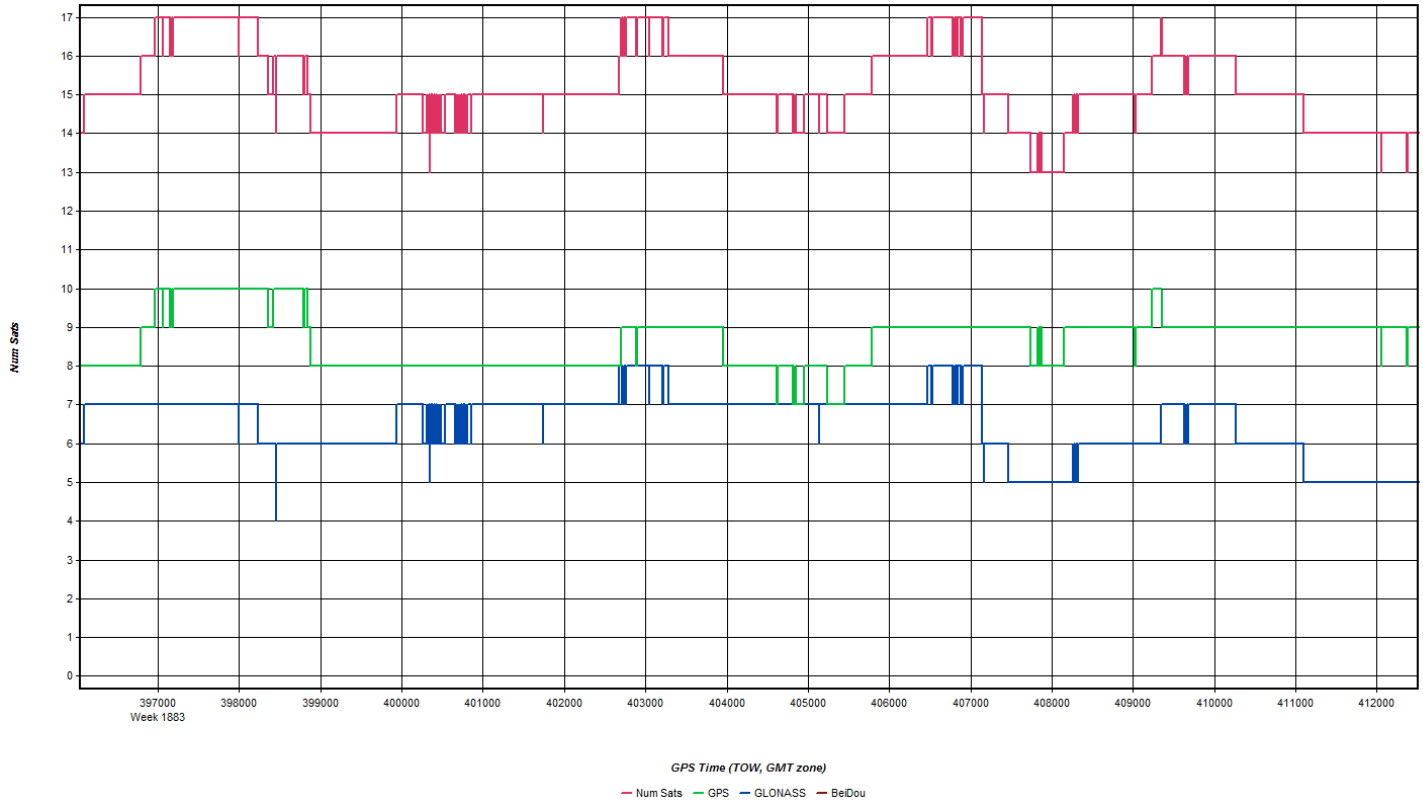
STATUS	TOTAL LINES	AIRCRAFT FLOWN	AIRCRAFT LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	NOTES:
○						B	1849	2147	
○						WX cross winds			
○						Bumpy blowing plane ↑↓ →			

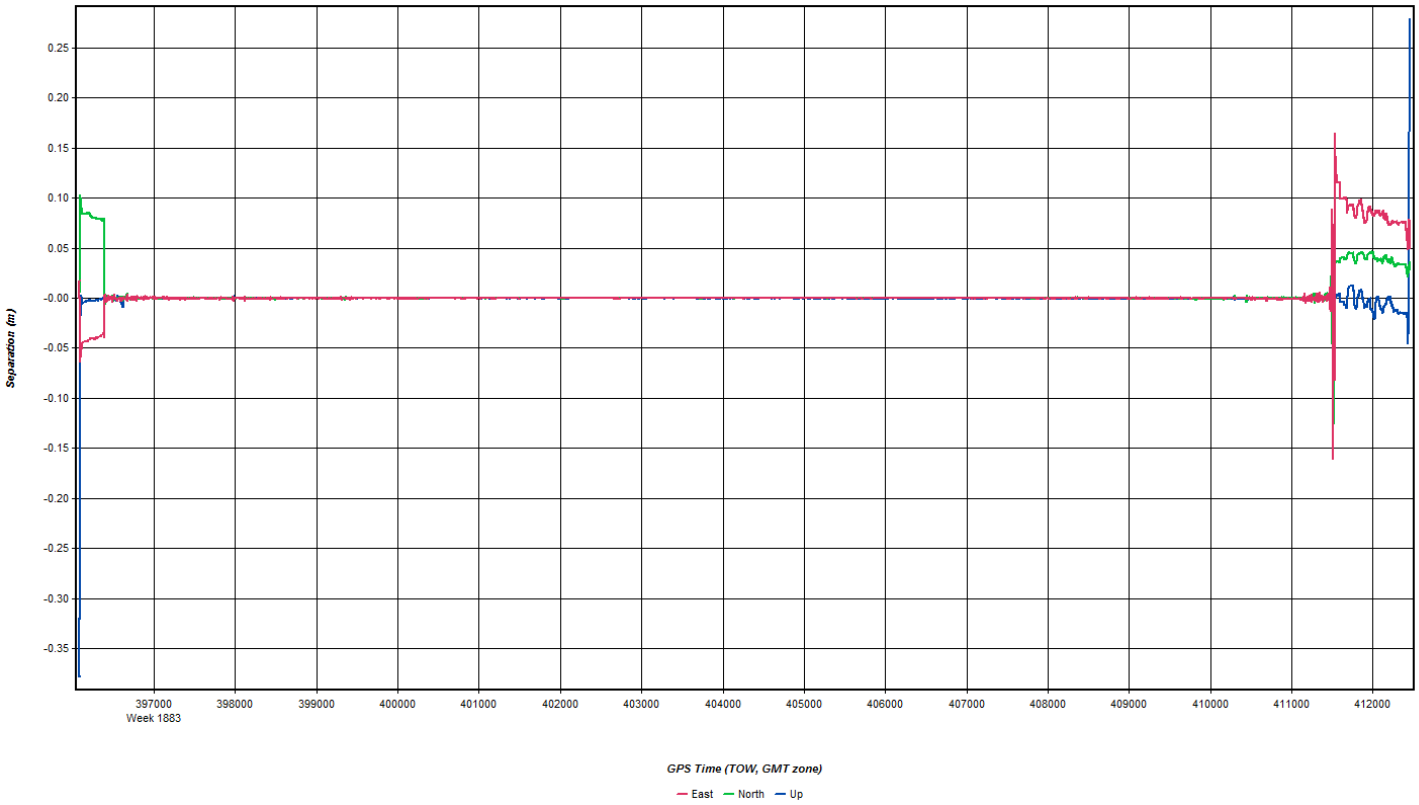
AERO-METRIC, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 **FAX: 888-253-6695** E-Mail: amephoto@aerometric.com

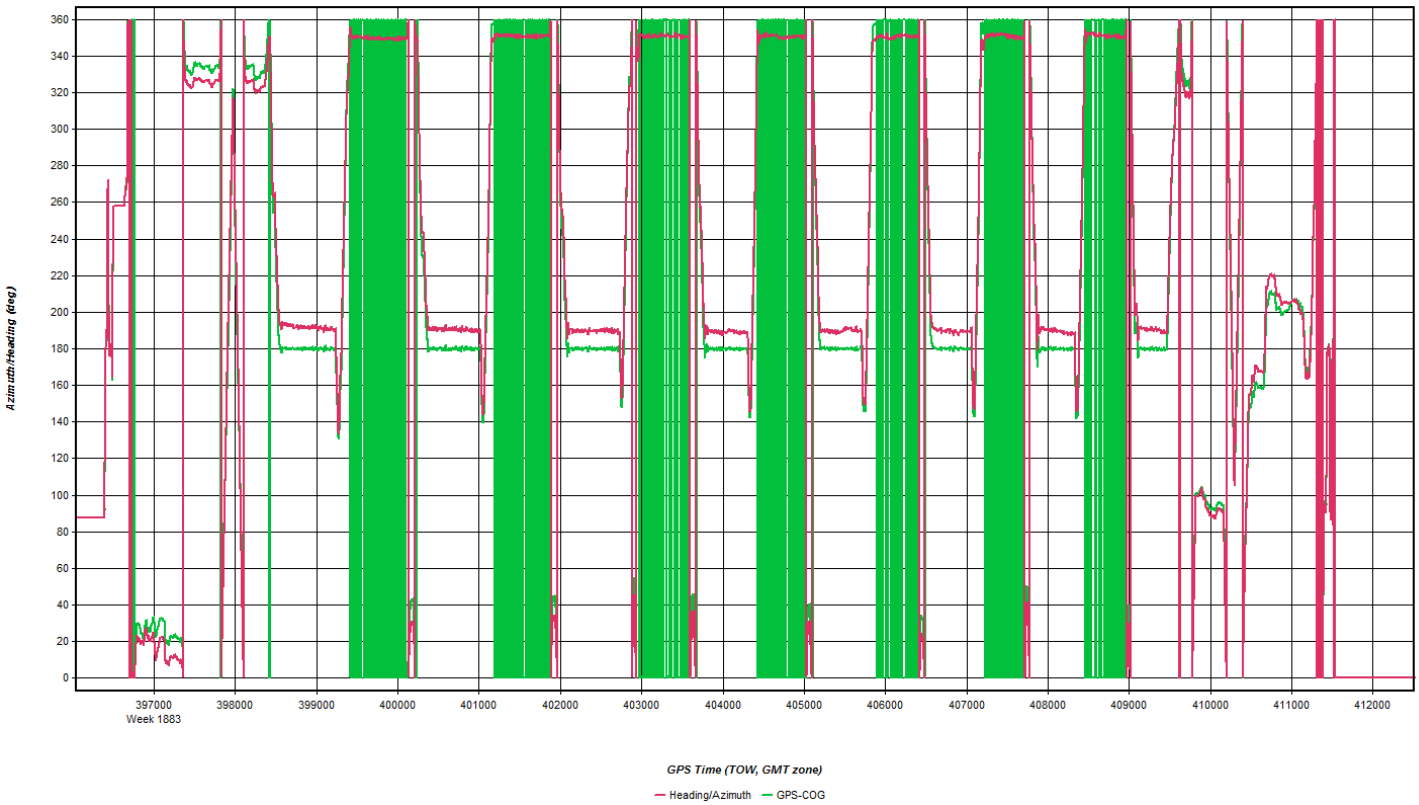
North AOI - UTM Zone 16

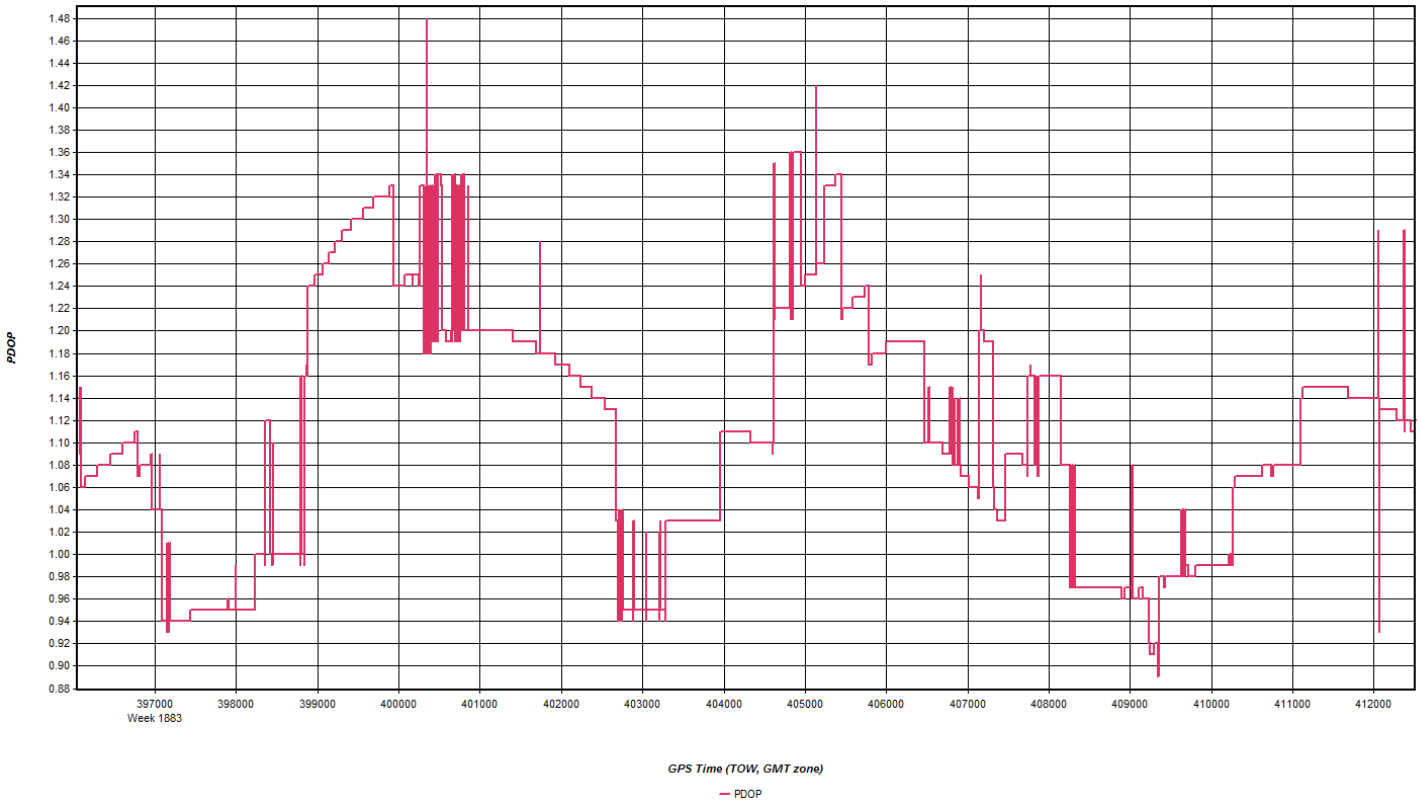
Feb 11, 2016-A (N22GE, SN7178)

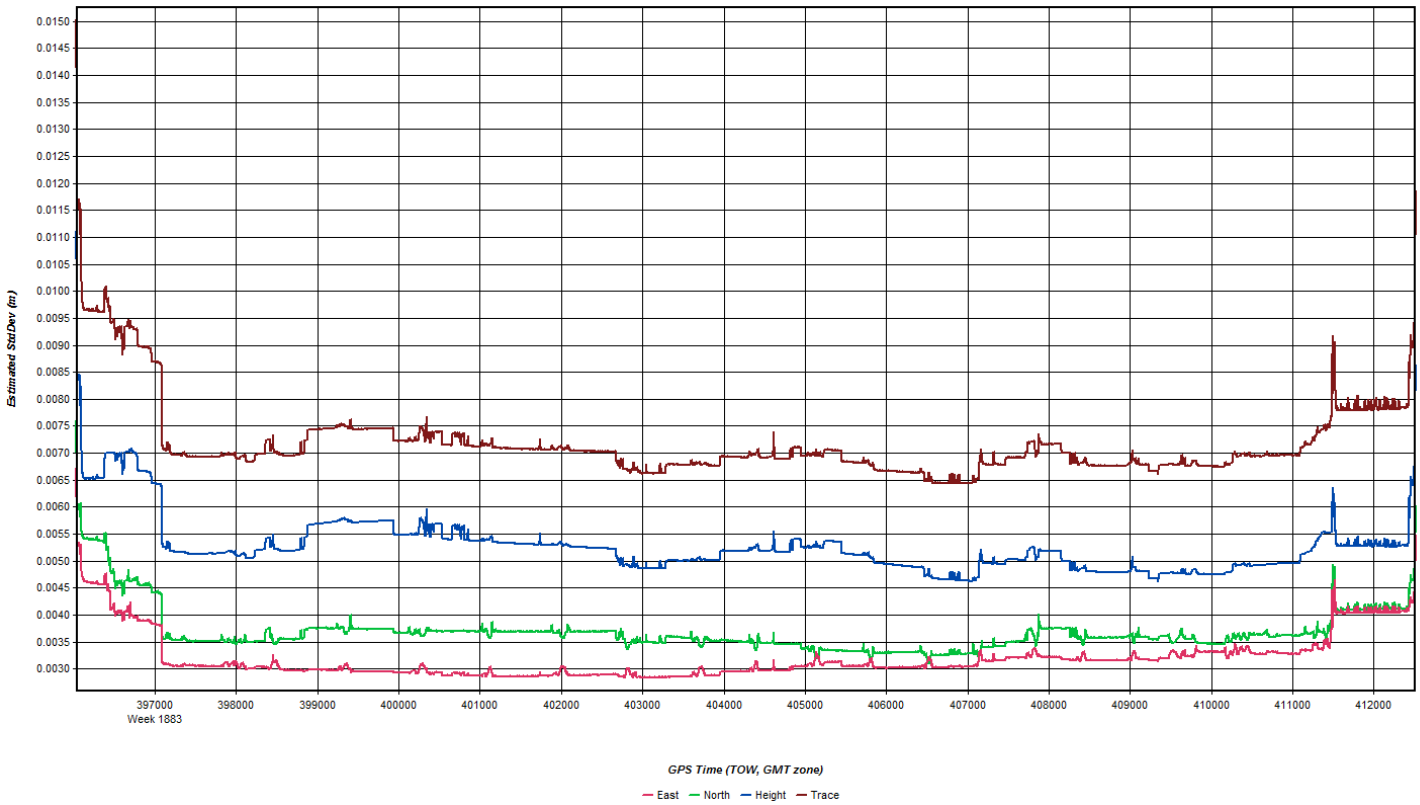


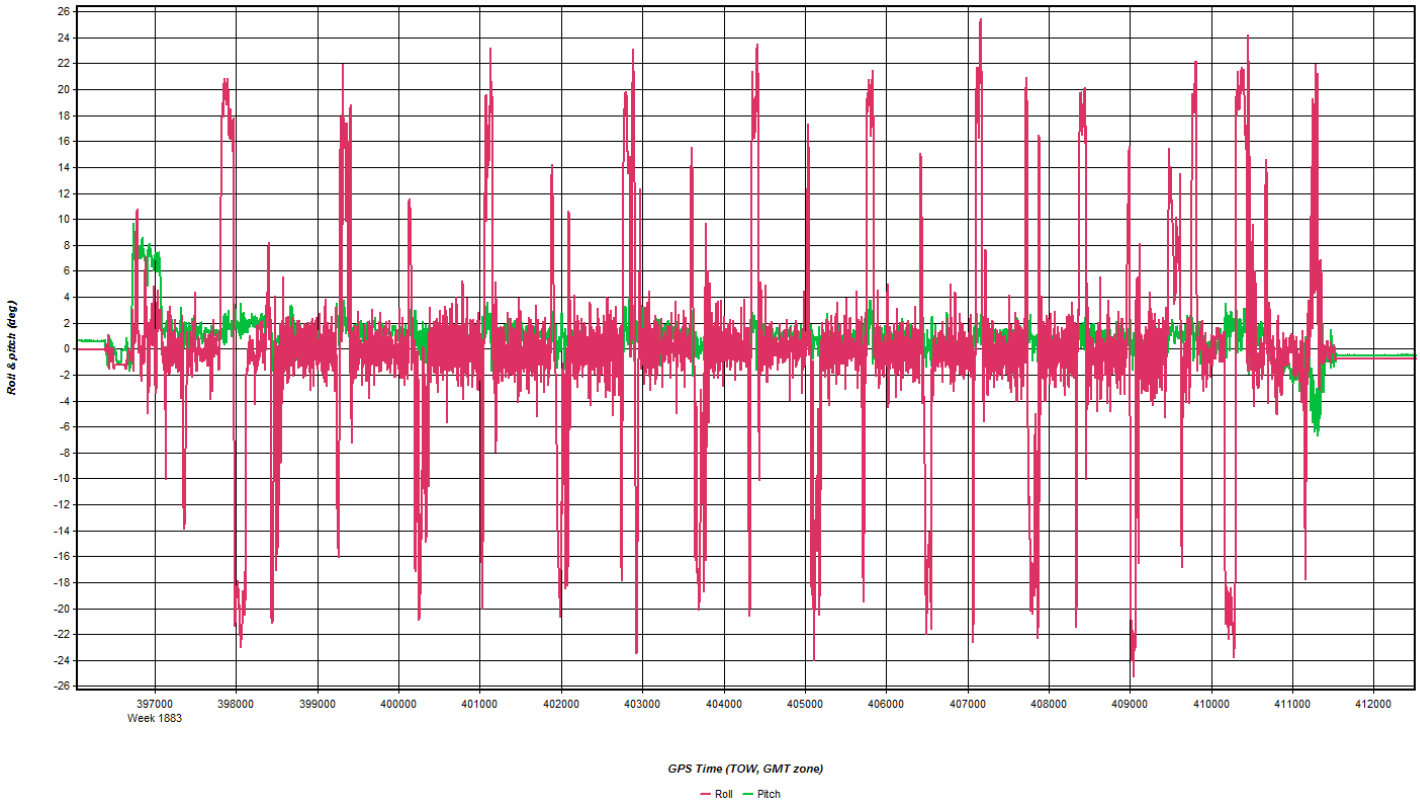

Num Sats
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
397000
Week 1883
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

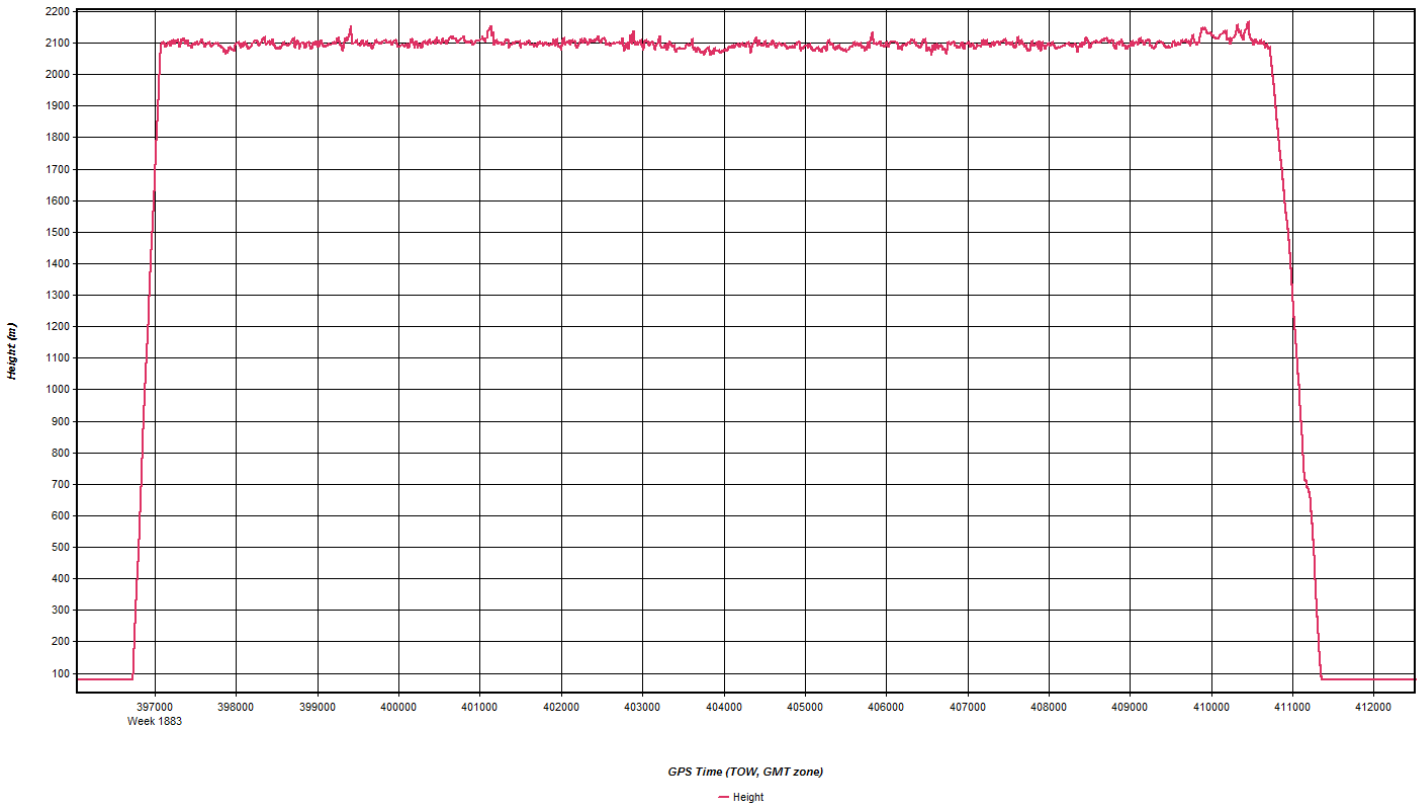

Separation (m)
0.25
0.20
0.15
0.10
0.05
-0.00
-0.05
-0.10
-0.15
-0.20
-0.25
-0.30
-0.35
397000
Week 1883
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
GPS Time (TOW, GMT zone)
East
North
Up

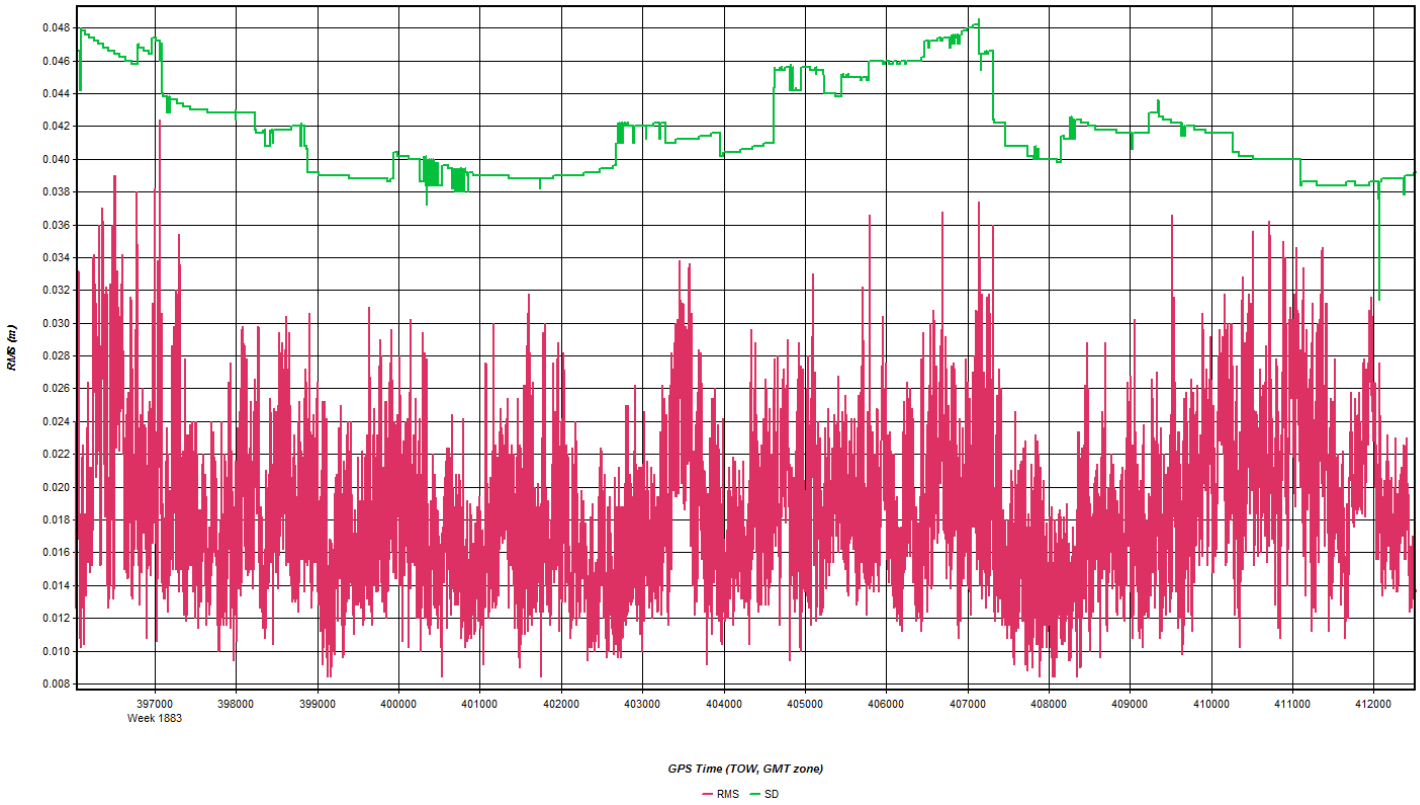

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
397000
Week 1883
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

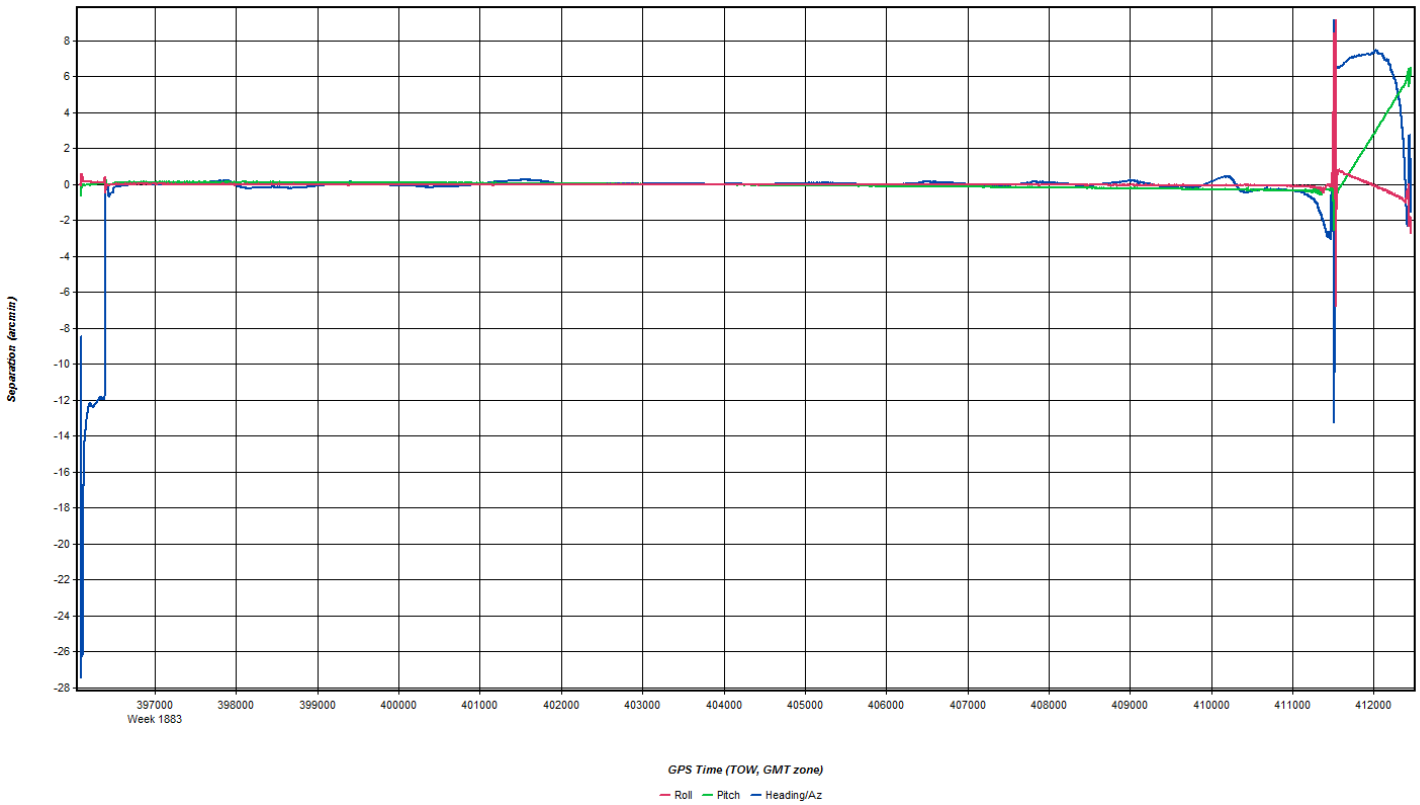

PDOP
1.48
1.46
1.44
1.42
1.40
1.38
1.36
1.34
1.32
1.30
1.28
1.26
1.24
1.22
1.20
1.18
1.16
1.14
1.12
1.10
1.08
1.06
1.04
1.02
1.00
0.98
0.96
0.94
0.92
0.90
0.88
397000
Week 1883
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
GPS Time (TOW, GMT zone)
PDOP

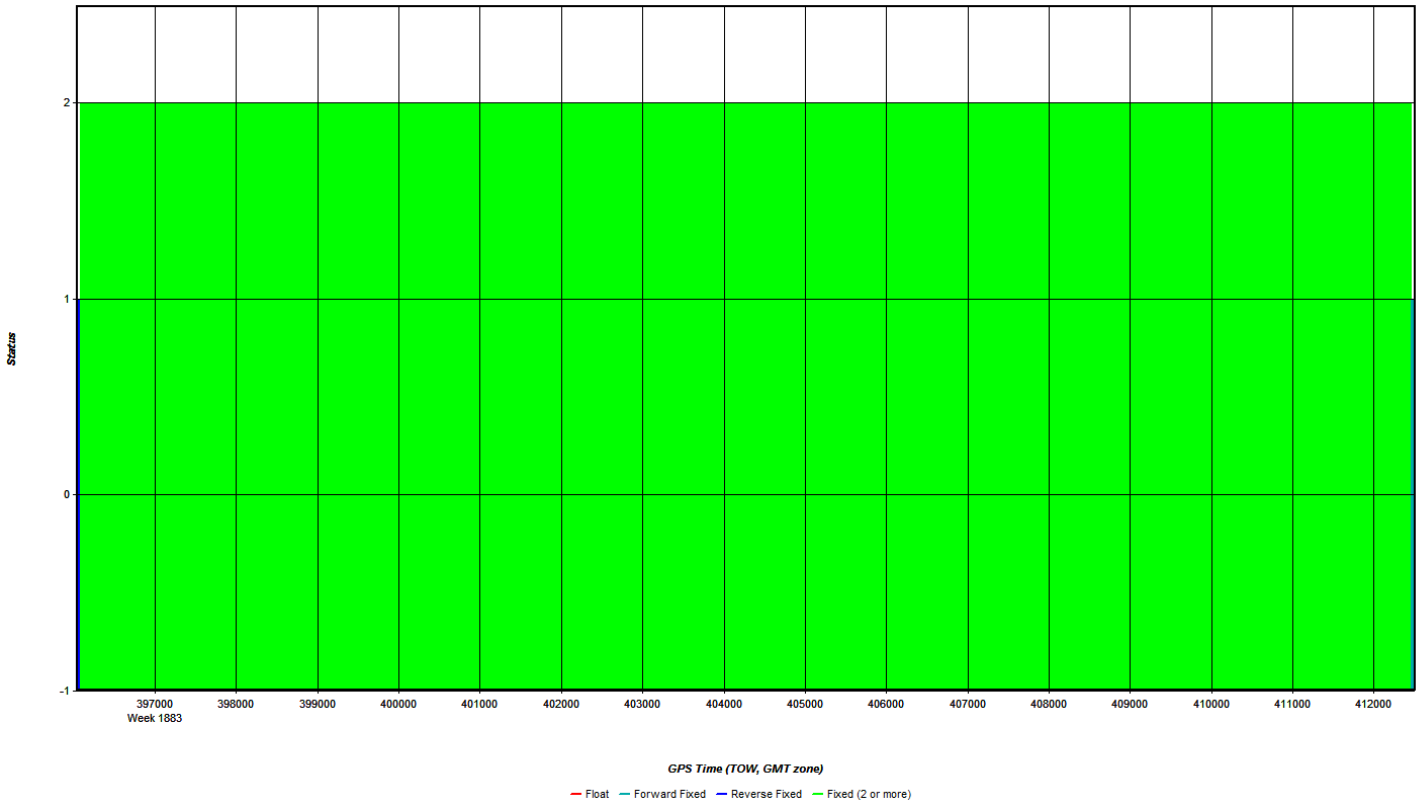

Estimated StdDev (m)
0.0150
0.0145
0.0140
0.0135
0.0130
0.0125
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
397000
Week 1883
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

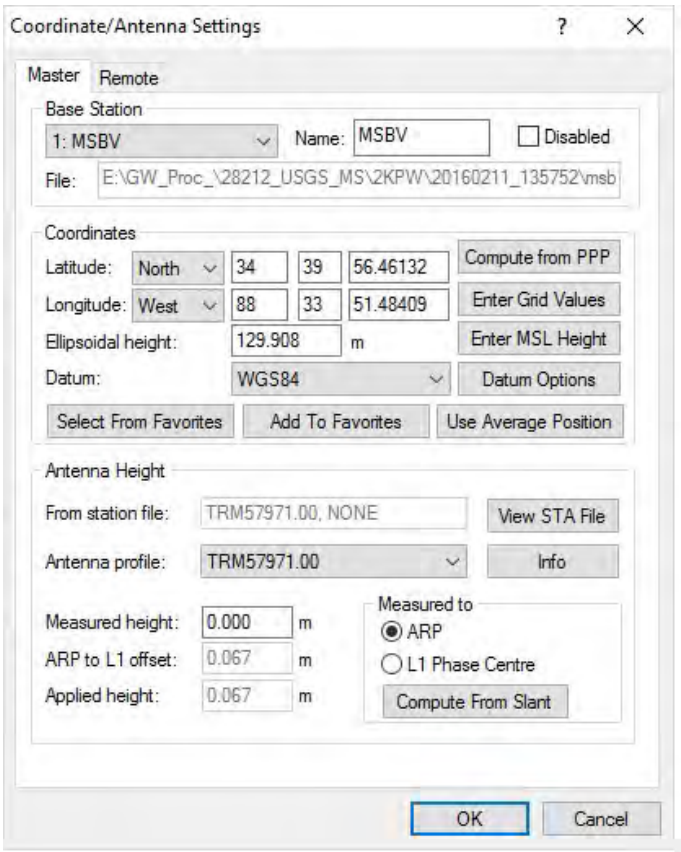

Roll & pitch (deg)
26
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
397000
Week 1883
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
GPS Time (TOW, GMT zone)
Roll
Pitch


Height (m)
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
397000
Week 1883
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
GPS Time (TOW, GMT zone)
Height


RMS (m)
0.048
0.046
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
397000
Week 1883
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
-28
397000
Week 1883
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
397000
Week 1883
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSBV
Name:
MSBV
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\2KPW\20160211_135752\msb
Coordinates
Latitude:
North
34
39
56.46132
Compute from PPP
Longitude:
West
88
33
51.48409
Enter Grid Values
Ellipsoidal height:
129.908
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM57971.00, NONE
View STA File
Antenna profile:
TRM57971.00
Info
Measured height:
0.000
m
ARP to L1 offset:
0.067
m
Applied height:
0.067
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log

YYYYMMDD_TIME(GPS)

OPERATORS FLIGHT LOG

SN7178_021116A

MISSION: v 20160211_135752 | DATE: 2 / 11 / 16 | LEICA ALS-70 | DI1

PILOT: Smelser | OPERATOR: Iverson | AIRCRAFT: N226E

PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS (MPiA-Disabled/Enabled) (WF Settings)
28212					53	40	273	255		1400		2	staticA 8608.3 Hobbs
MS-USGS										1411			Take OFF KTUP
										1422			cores MSBV
										1430	1435		figure 8
		223	S	154	53	40	273	255	6854	1443	1453	2	
		222	N	166					6867	1457	1509		
		221	S	169					6880	1513	1523		
		220	N	154					6886	1527	1538		
		219	S	167					6890	1542	1551		
		218	N	155					6857	1557	1606		
		217	S	167					6857	1610	1618		
		216	N	156					6857	1621	1629		
		215	S	167					6864	1634	1641		
		214	N	156					6870	1645	1653		
		213	S	168					6880	1656	1704		
		212	N	160					6883	1707	1715		
211		211	S	172					6893	1718	1725		
		210	N	160					6906	1729	1736		
		209	S	168					6906	1738	1744		

STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	NOTES: Base set at KTUP
⊗ 28212		23	Ø	5.4	.7	A	1400	1824	Ship Drive: RAW_2KPW
○						WX			Backup Drive: RAW_7412
○									

AERO-METRIC, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 **FAX: 888-253-6695** E-Mail: amephoto@aerometric.com

YYYYMMDD_TIME(GPS)

OPERATORS FLIGHT LOG

SN7178_021116A

MISSION: V 20160211_135752 DATE: 2/11/16 LEICA ALS-70 DI2

PILOT: Smelser OPERATOR: Iverson AIRCRAFT: N226E

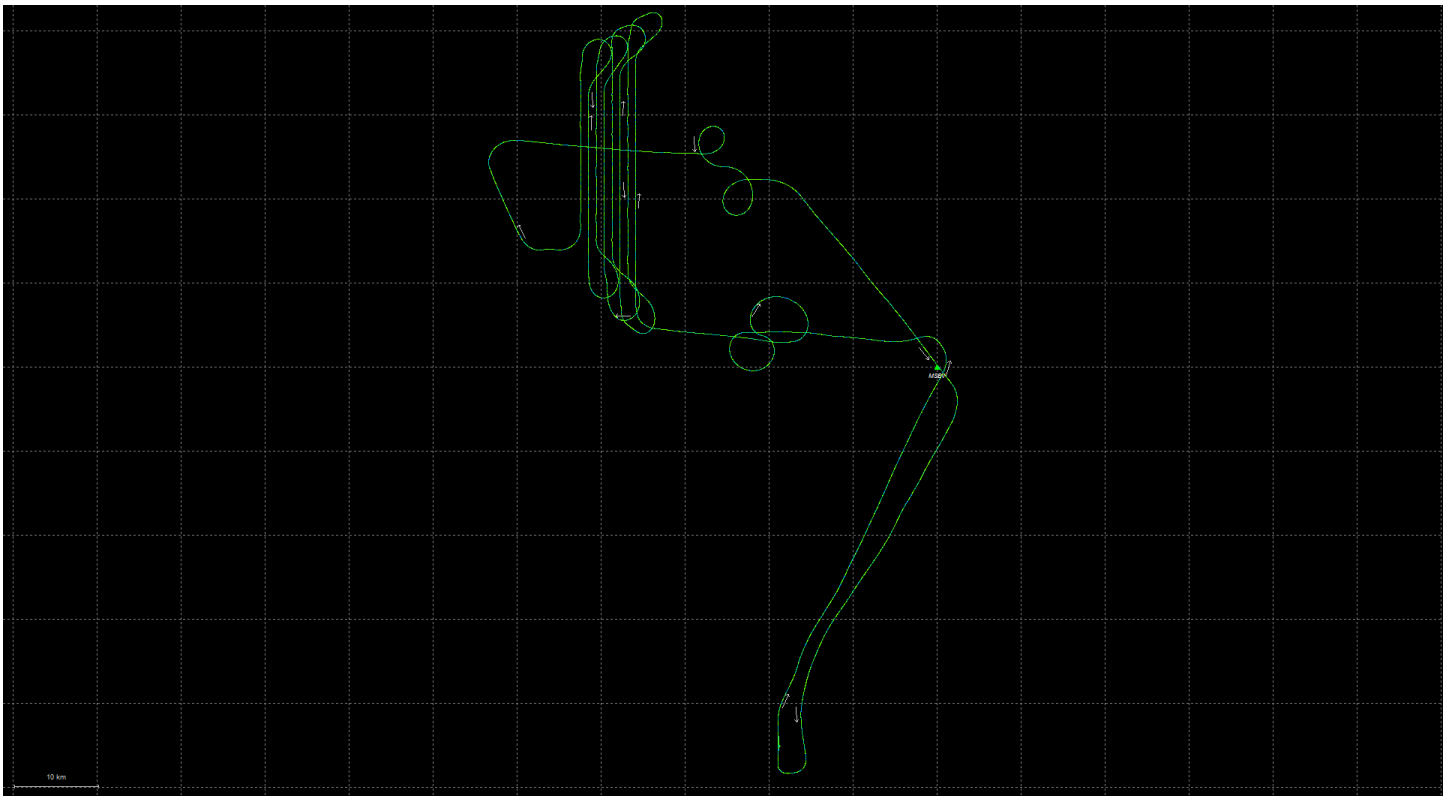
PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (ft)	TIME START	TIME STOP	MM70 DRIVE	REMARKS (MPiA-Disabled/Enabled) (WF Settings)
28212		XF	E	165	53	40	273	255	6960	1750	1755	2	cross flight
MS-USGS													[redacted]
													[redacted]
													[redacted]
										1756	1801		figure 8
											1804		cores MSBV
											1815		LandKTUP 8612.4 Hobbs
											1824		staticA

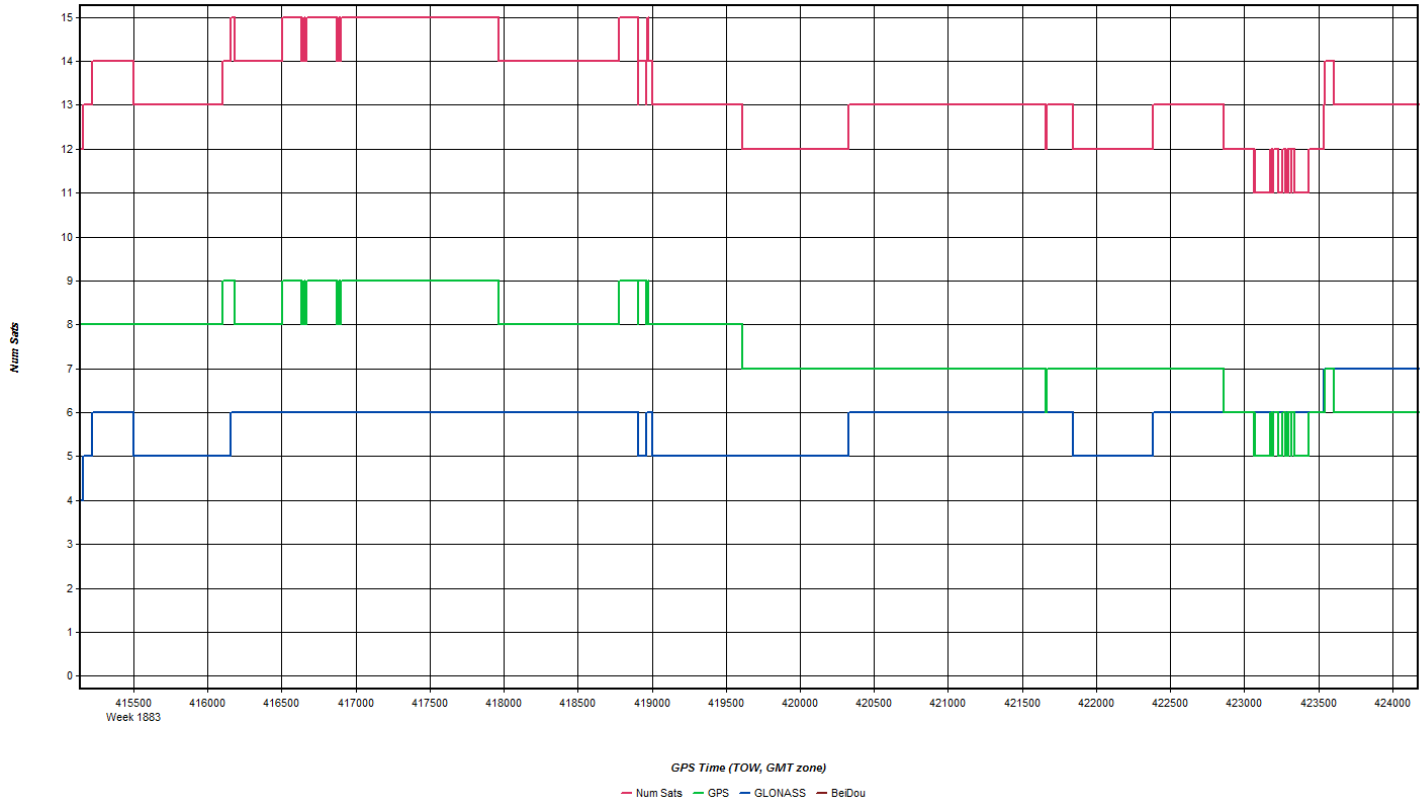
STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP		NOTES:
○										Airplane is breaking and coming apart below both engines, bolts coming out.
○						WX				
○										

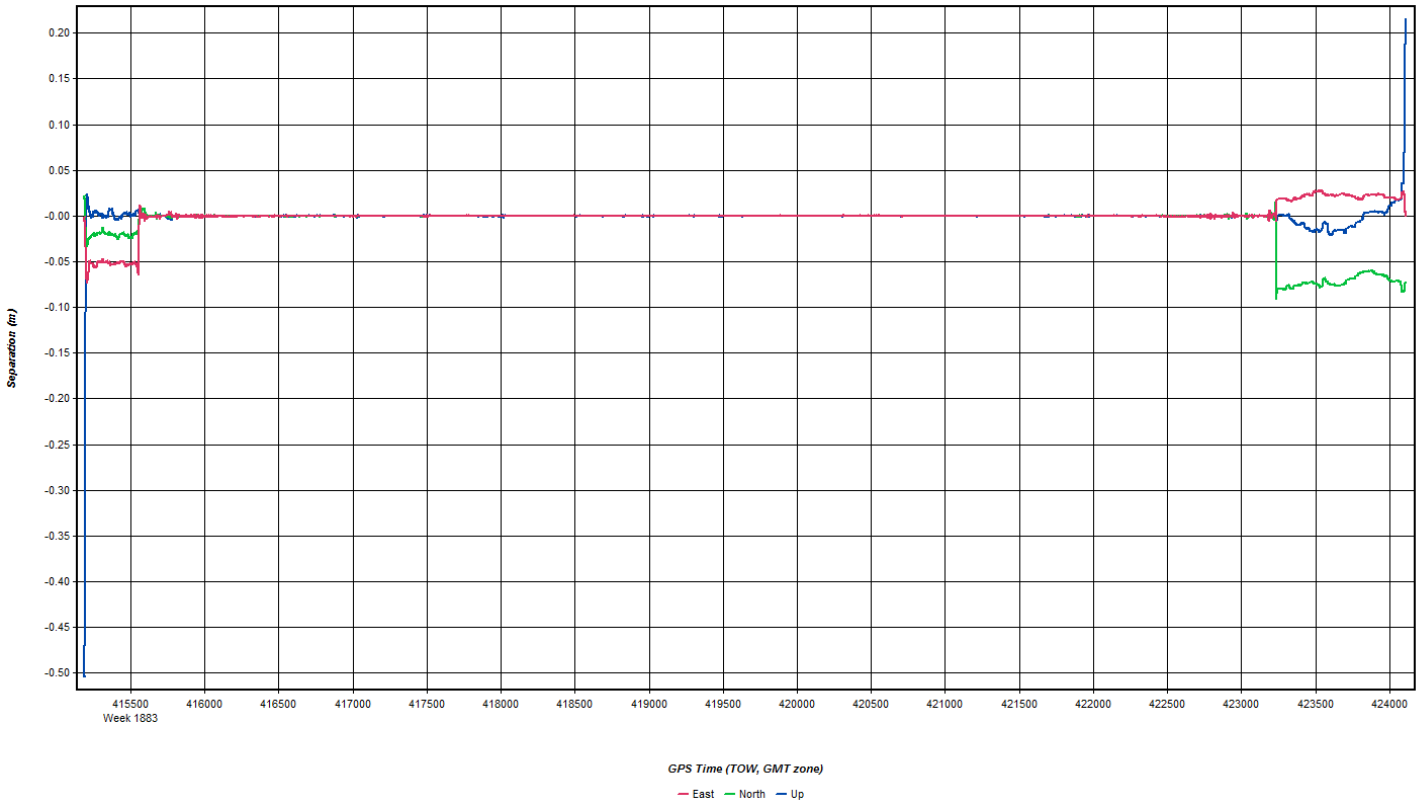
Quantumspatial, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 **FAX: 888-253-6695** E-Mail: flight-log-distribution-list@aerometric.com

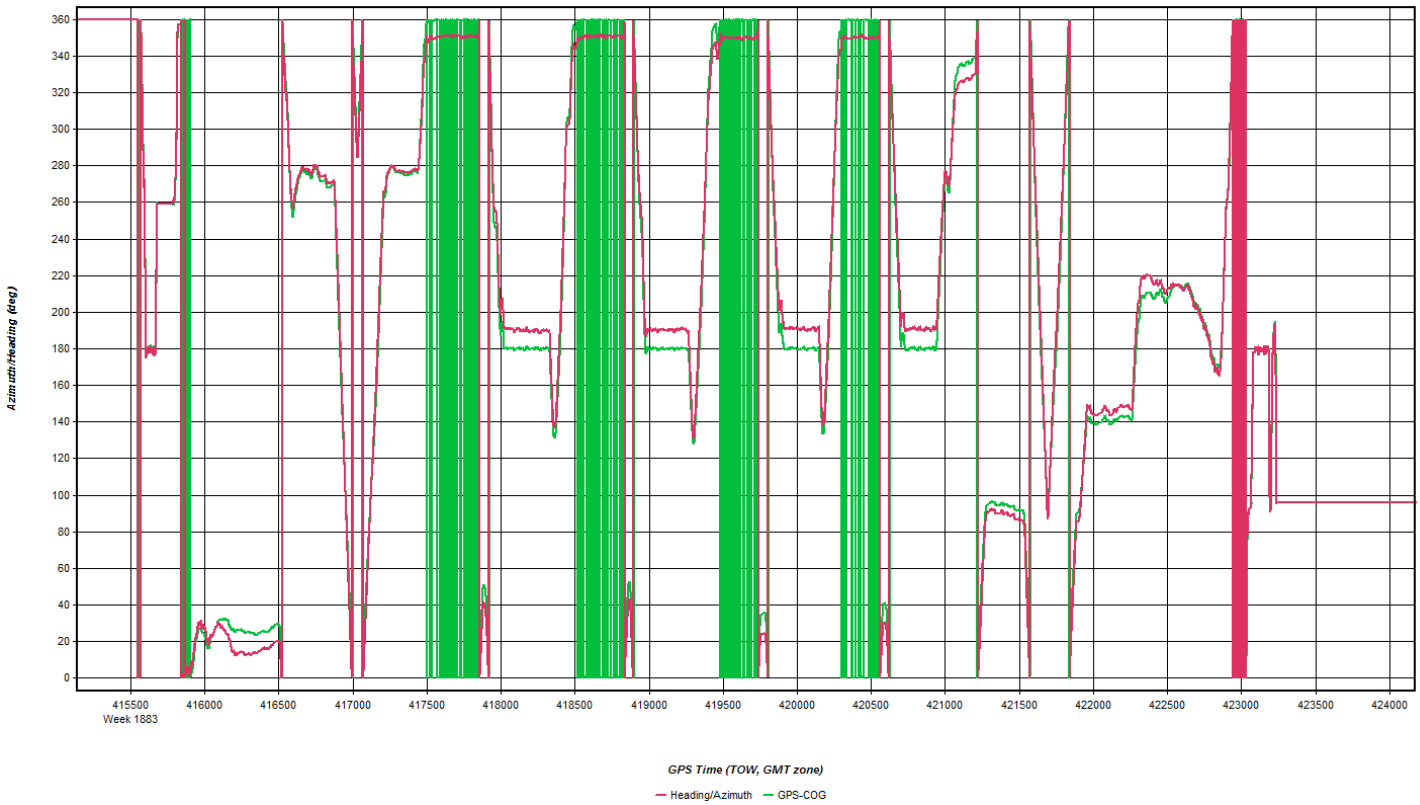
North AOI - UTM Zone 16

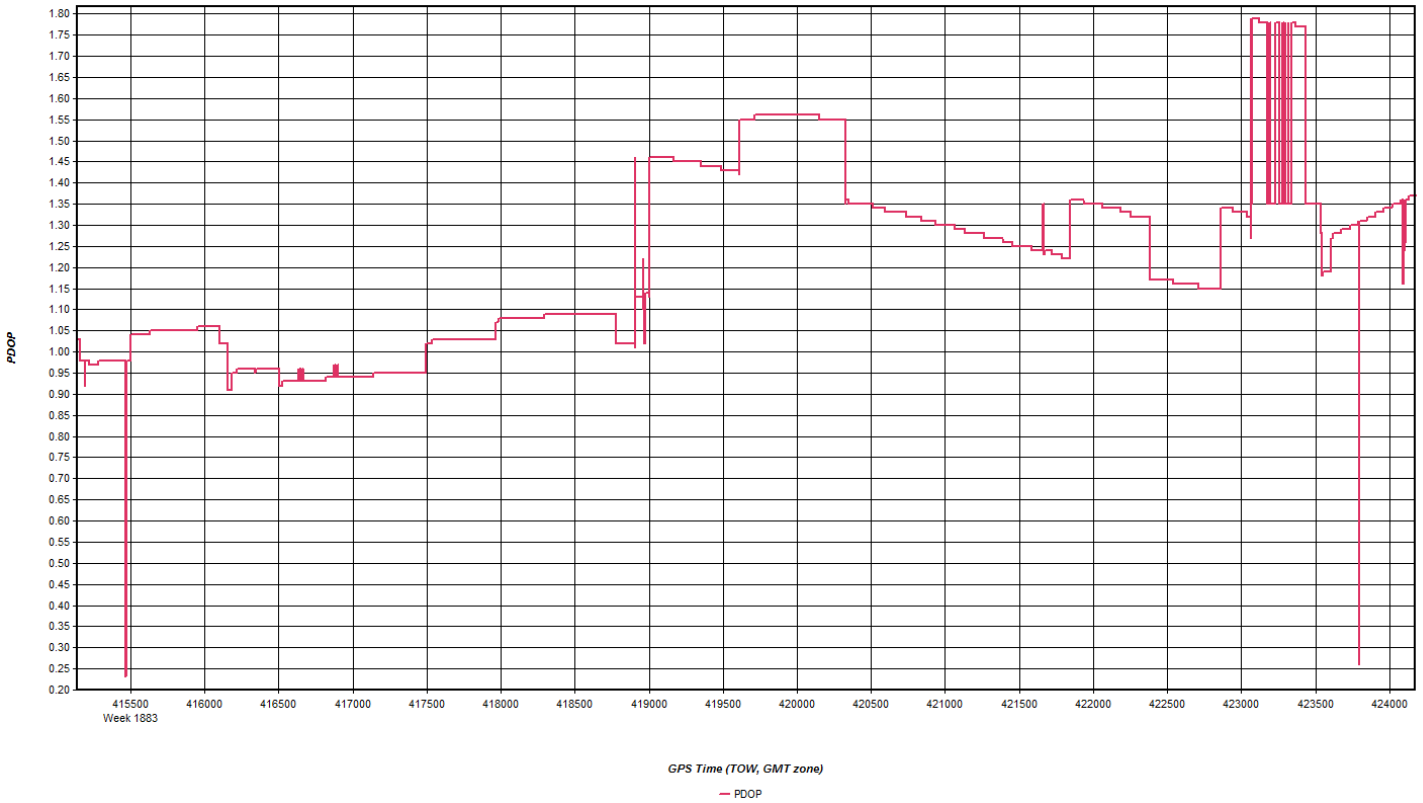
Feb 11, 2016-B (N22GE, SN7178)

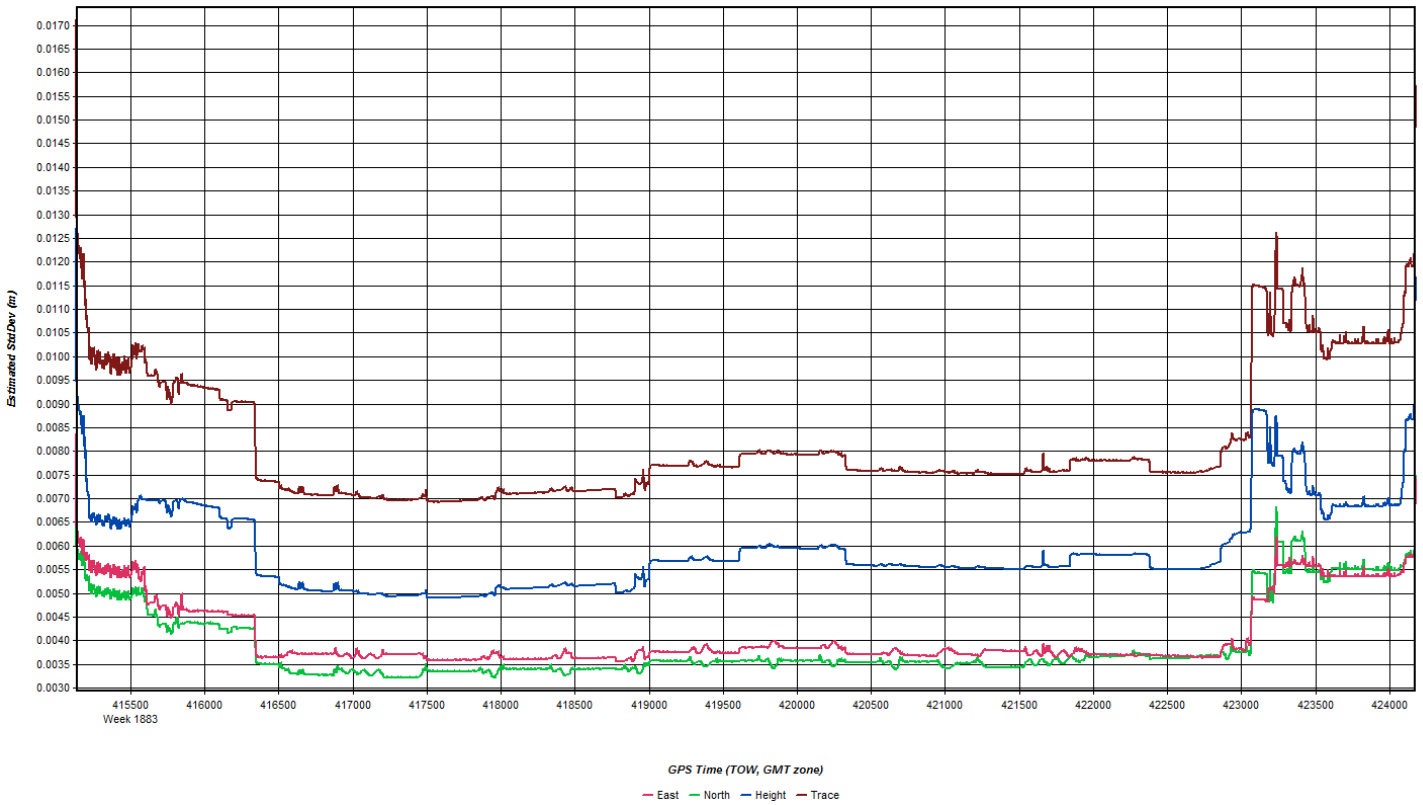

10 km

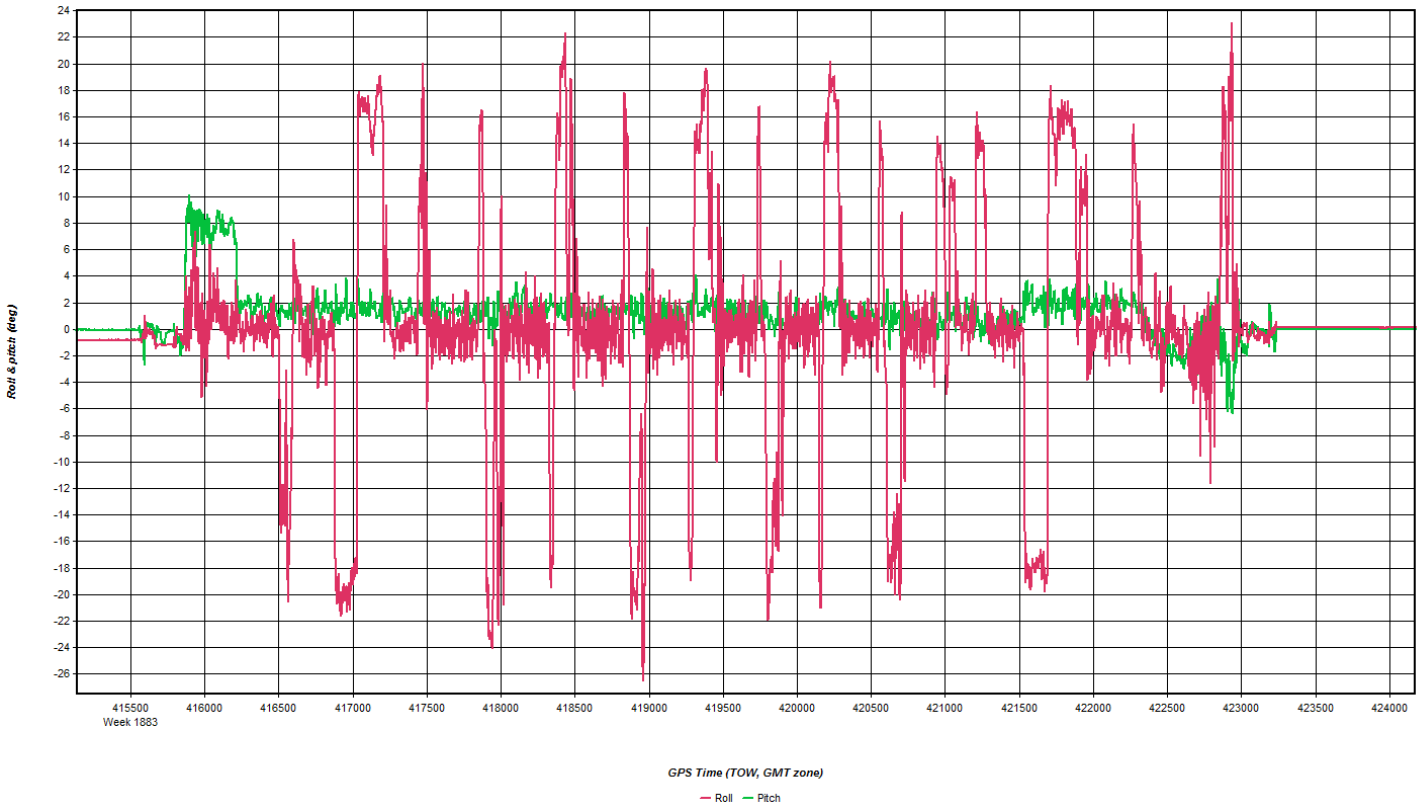

Num Sats
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
415500
Week 1883
416000
416500
417000
417500
418000
418500
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

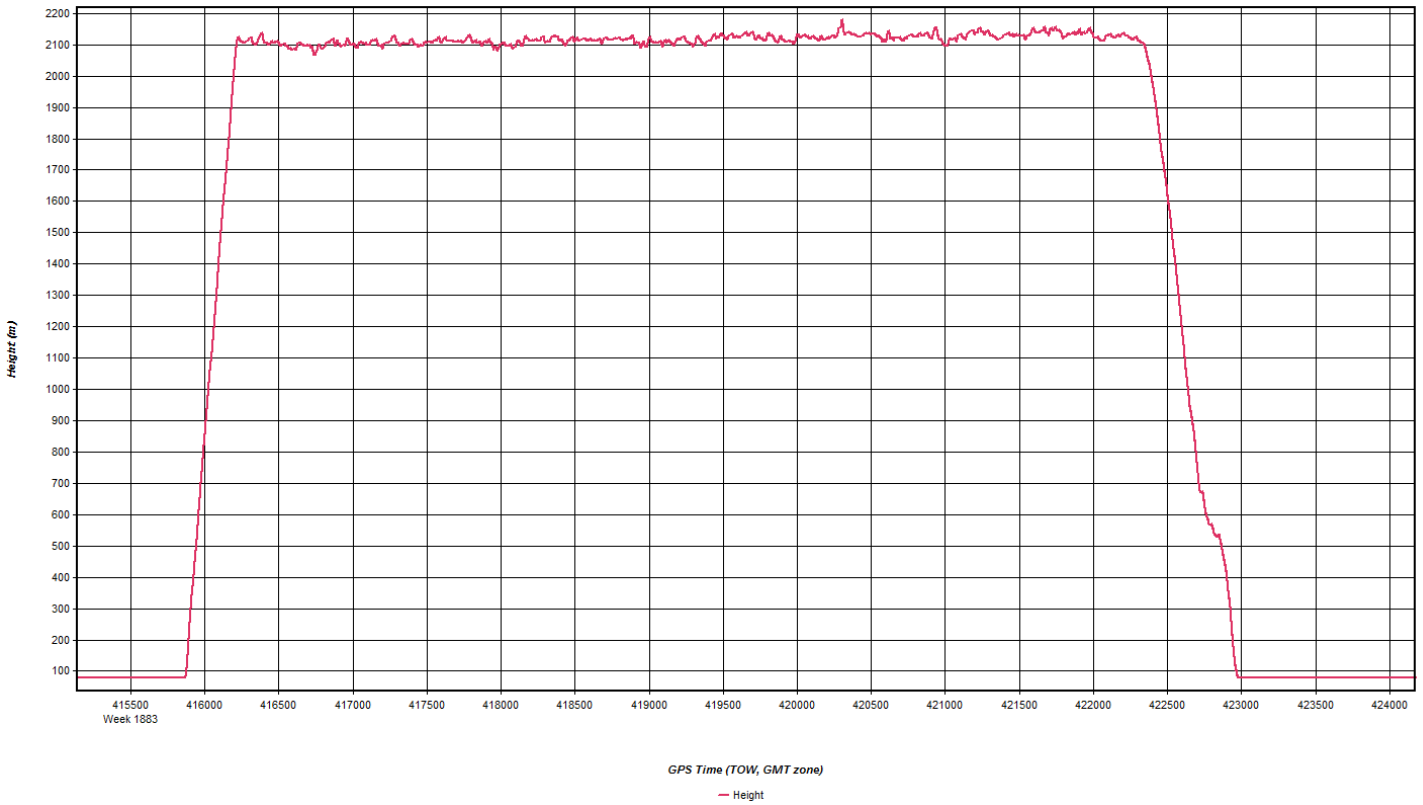

Separation (m)
0.20
0.15
0.10
0.05
0.00
-0.05
-0.10
-0.15
-0.20
-0.25
-0.30
-0.35
-0.40
-0.45
-0.50
415500
Week 1883
416000
416500
417000
417500
418000
418500
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
GPS Time (TOW, GMT zone)
East
North
Up

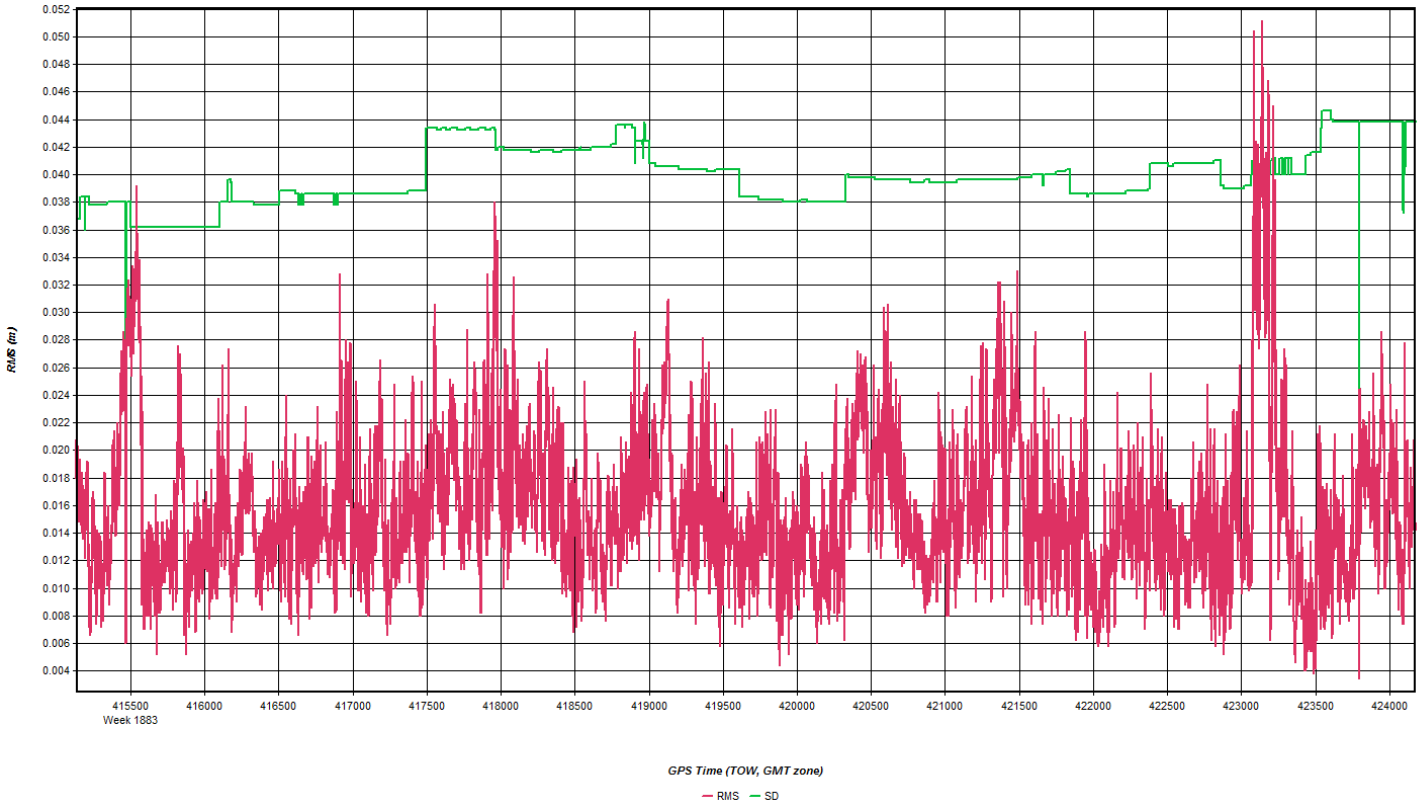

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
415500
Week 1883
416000
416500
417000
417500
418000
418500
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

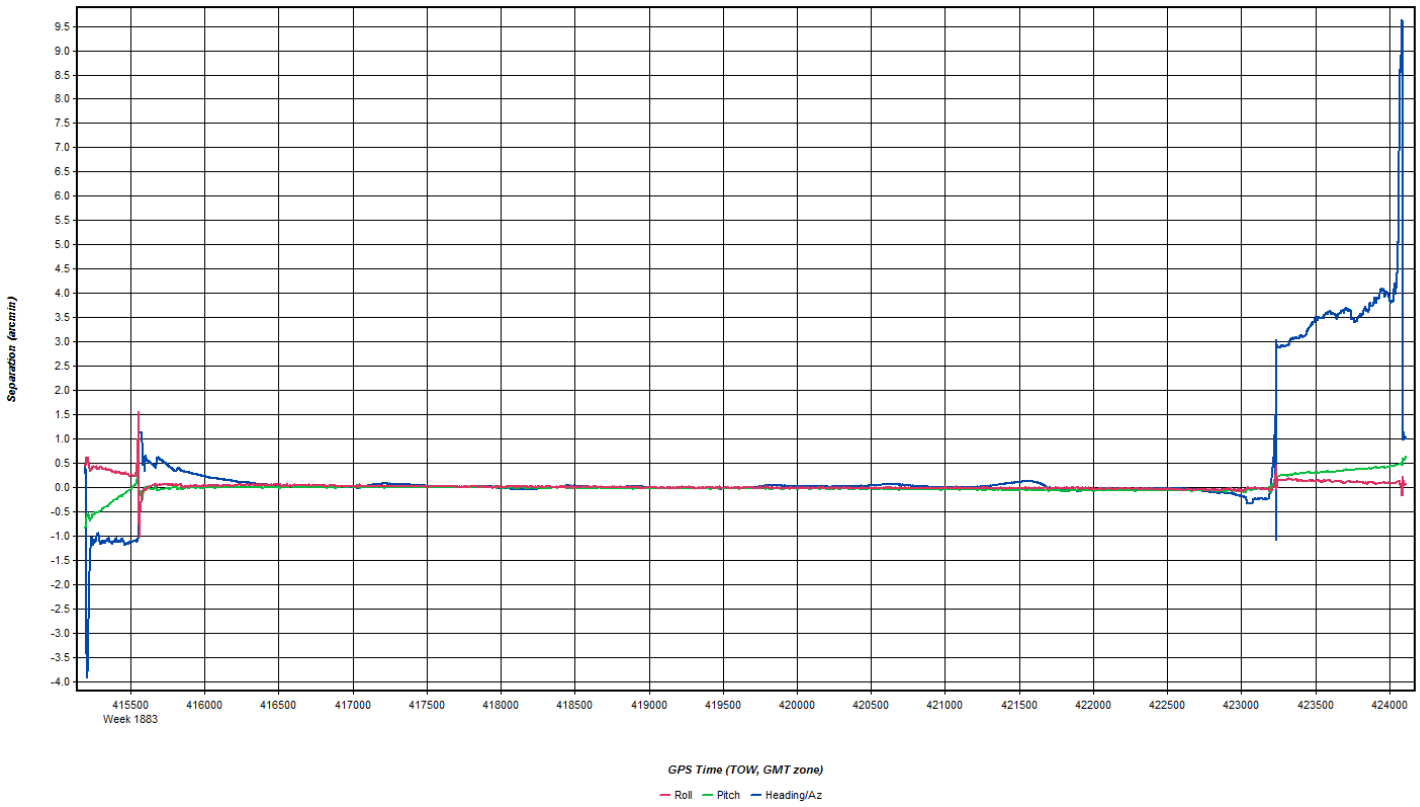

PDOP
1.80
1.75
1.70
1.65
1.60
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.55
0.50
0.45
0.40
0.35
0.30
0.25
0.20
415500
Week 1883
416000
416500
417000
417500
418000
418500
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
GPS Time (TOW, GMT zone)
PDOP

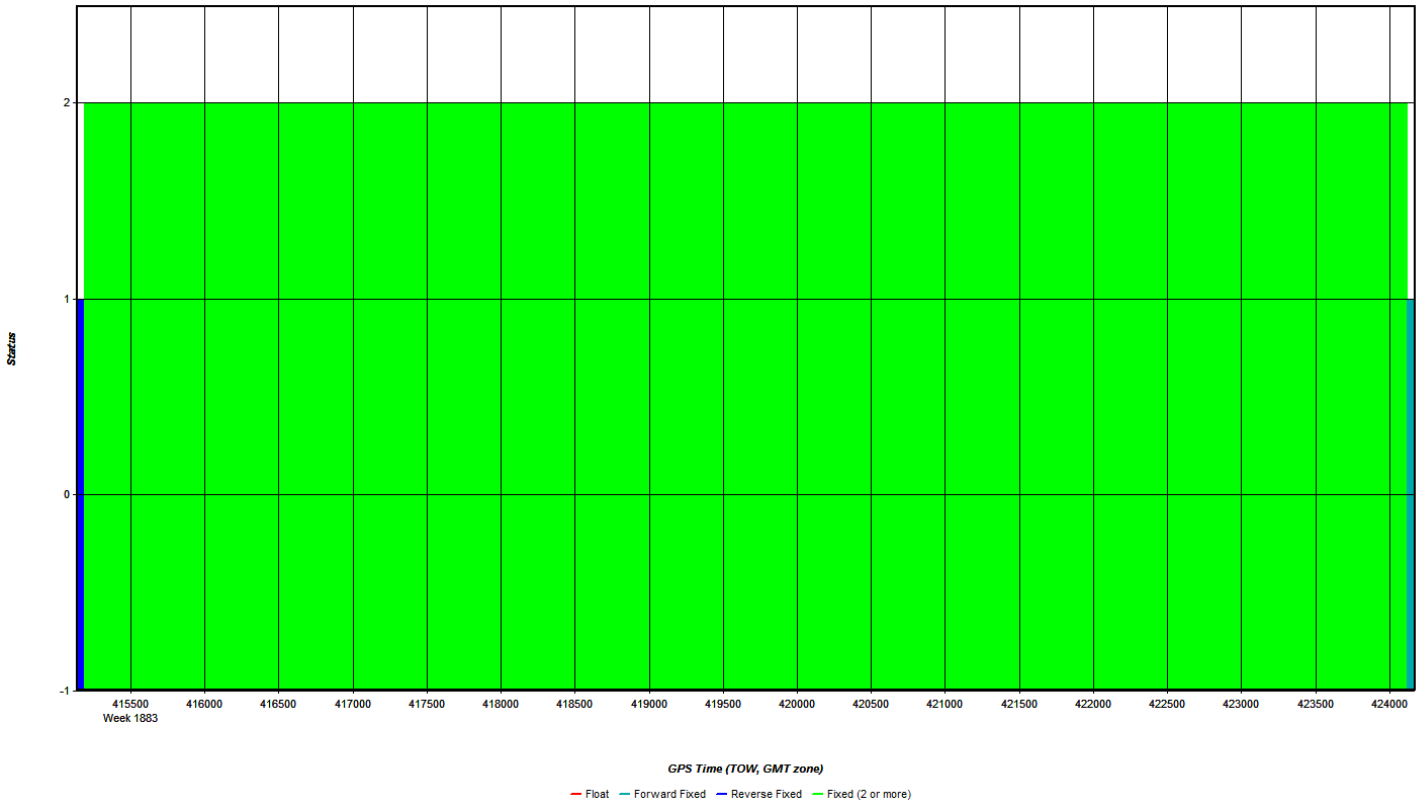

Estimated StdDev (m)
0.0170
0.0165
0.0160
0.0155
0.0150
0.0145
0.0140
0.0135
0.0130
0.0125
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
415500
Week 1883
416000
416500
417000
417500
418000
418500
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

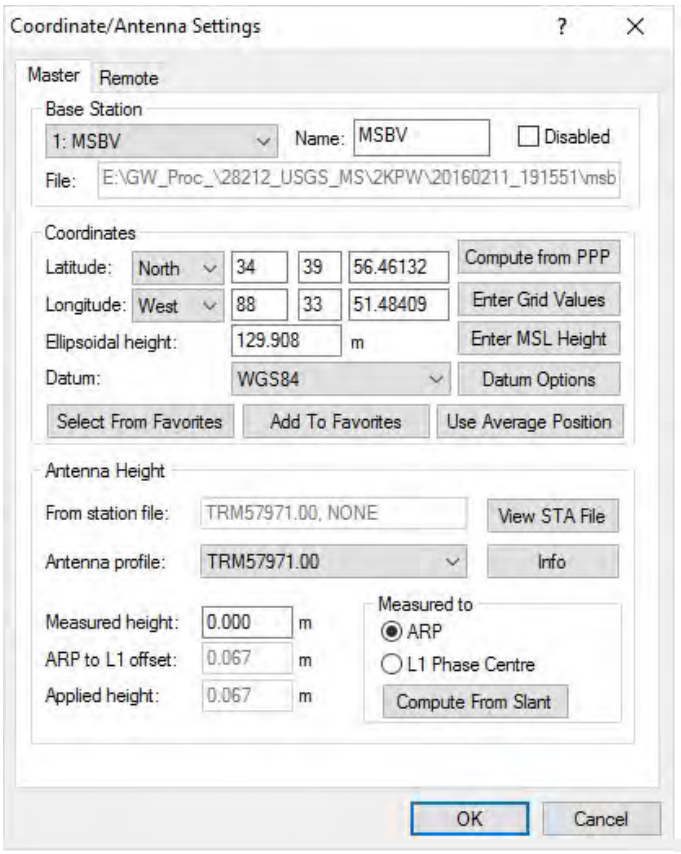

Roll & pitch (deg)
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
415500
Week 1883
416000
416500
417000
417500
418000
418500
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
GPS Time (TOW, GMT zone)
Roll
Pitch


Height (m)
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
415500
Week 1883
416000
416500
417000
417500
418000
418500
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
GPS Time (TOW, GMT zone)
Height


RMS (m)
0.052
0.050
0.048
0.046
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
415500
Week 1883
416000
416500
417000
417500
418000
418500
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
-3.0
-3.5
-4.0
415500
Week 1883
416000
416500
417000
417500
418000
418500
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
415500
Week 1883
416000
416500
417000
417500
418000
418500
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSBV
Name:
MSBV
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\2KPW\20160211_191551\msb
Coordinates
Latitude:
North
34
39
56.46132
Compute from PPP
Longitude:
West
88
33
51.48409
Enter Grid Values
Ellipsoidal height:
129.908
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM57971.00, NONE
View STA File
Antenna profile:
TRM57971.00
Info
Measured height:
0.000
m
ARP to L1 offset:
0.067
m
Applied height:
0.067
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log

YYYYMMDD_TIME(GPS)

OPERATORS FLIGHT LOG SN7178-02116 B

MISSION: v 20160211-191551 DATE: 2/11/16 LEICA ALS-70 DI3

PILOT: Smelser OPERATOR: Iverson AIRCRAFT: N22 GE

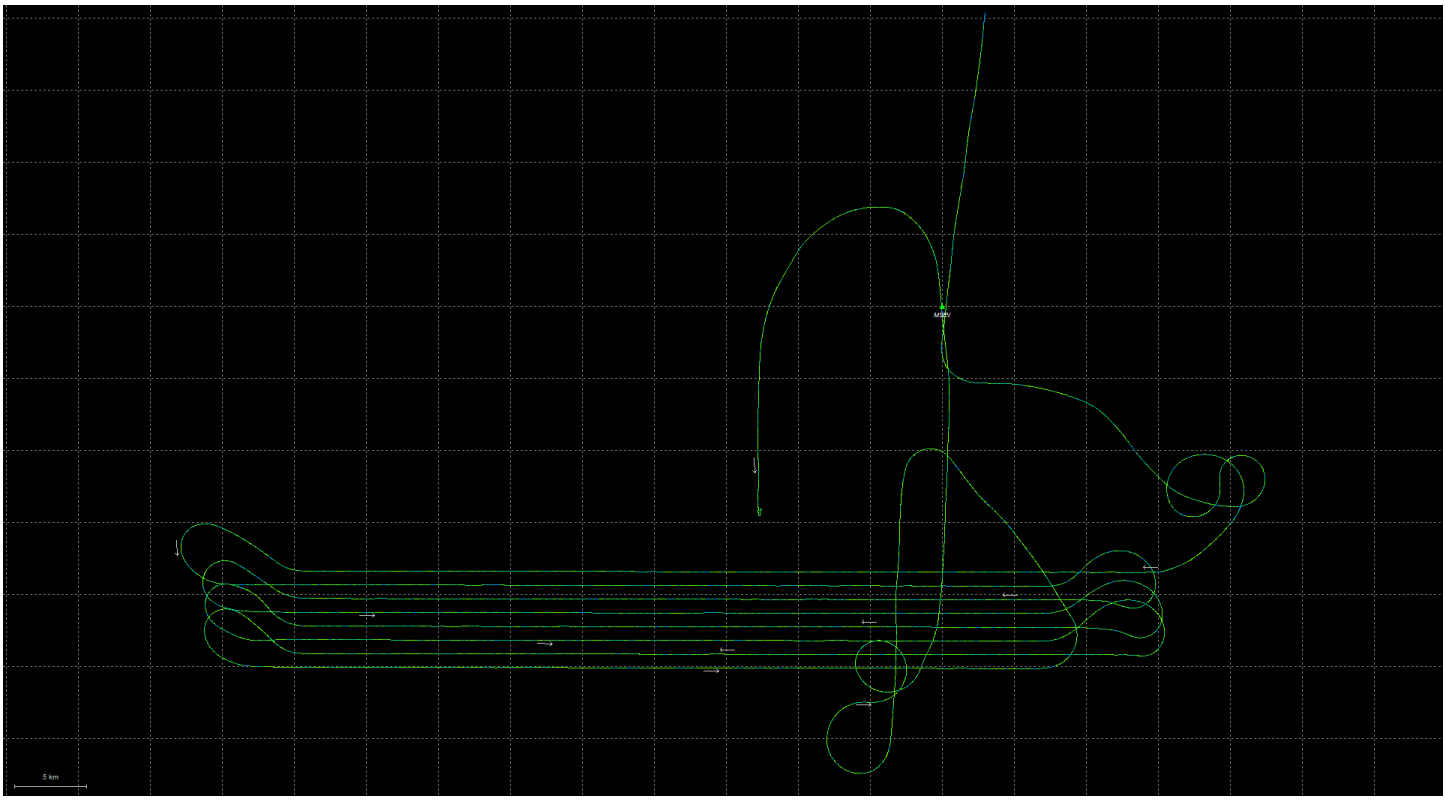
PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (ft)	TIME START	TIME STOP	MM70 DRIVE	REMARKS (MPiA-Disabled/Enabled) (WF Settings)
28212					53	40	273	255		1920		2	Static B 8612.4 Hobbs
MS-USGS										1930			Take Off KTUP
										1941			cores MSBV
										1947	1954		figure 8
		208	N	159	53	40	273	255	6916	1958	2004	2	
		207	S	164					6926	2007	2011		
		206	N	160					6932	2015	2020		
		205	S	164					6952	2023	2027		
		204	N	158					6959	2031	2035		
		203	S	161					6972	2038	2042		
		202	N	161					6988	2045	2048		
		201	S	163					6972	2052	2055		
		XF	E	169					6980	2101	2104		Cross flight
										2105	2111		figure 8
											2117		Cores MSBV
											2129		Land KTUP 8614.4 Hobbs
											2138		static B

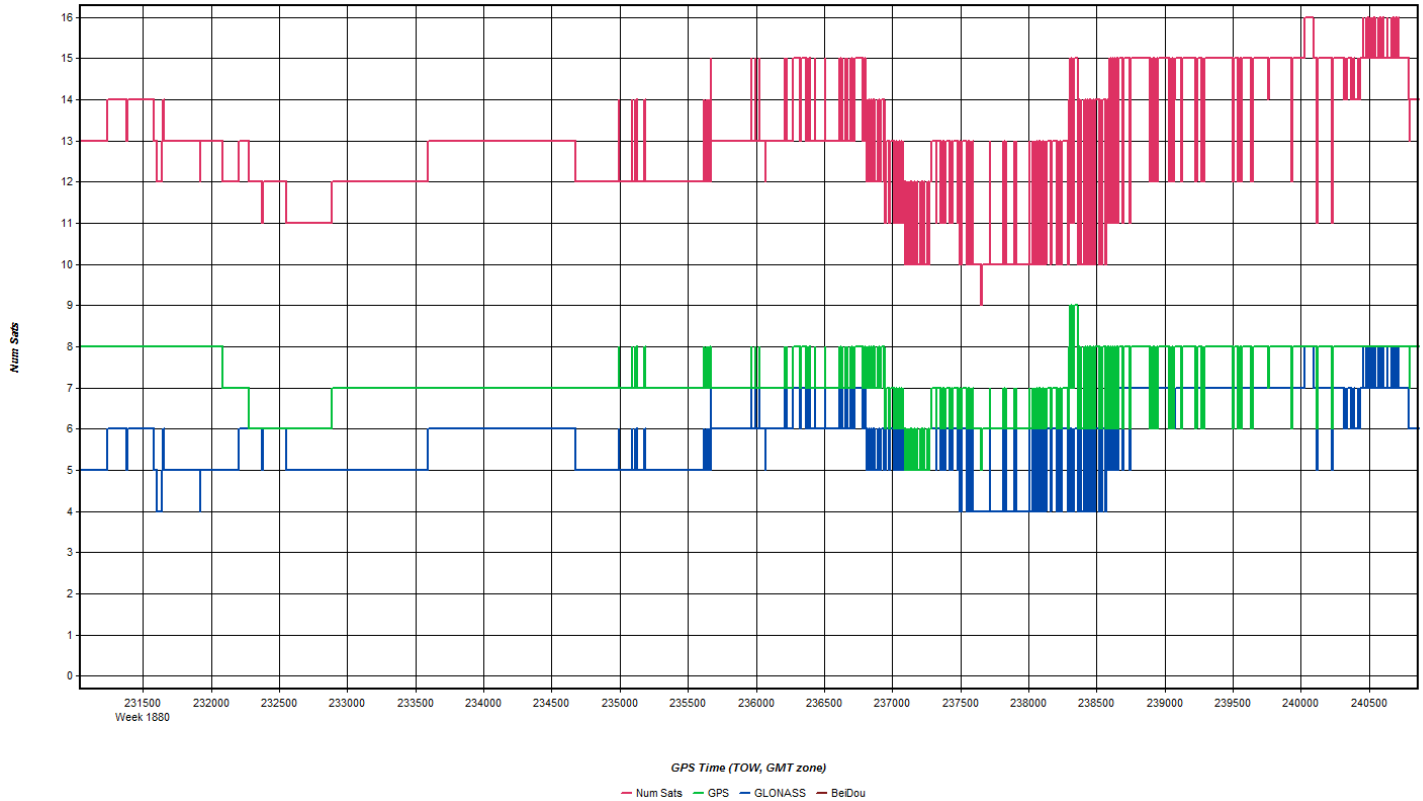
STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	NOTES:
○						B	1920	2138	
○						WX			
○									

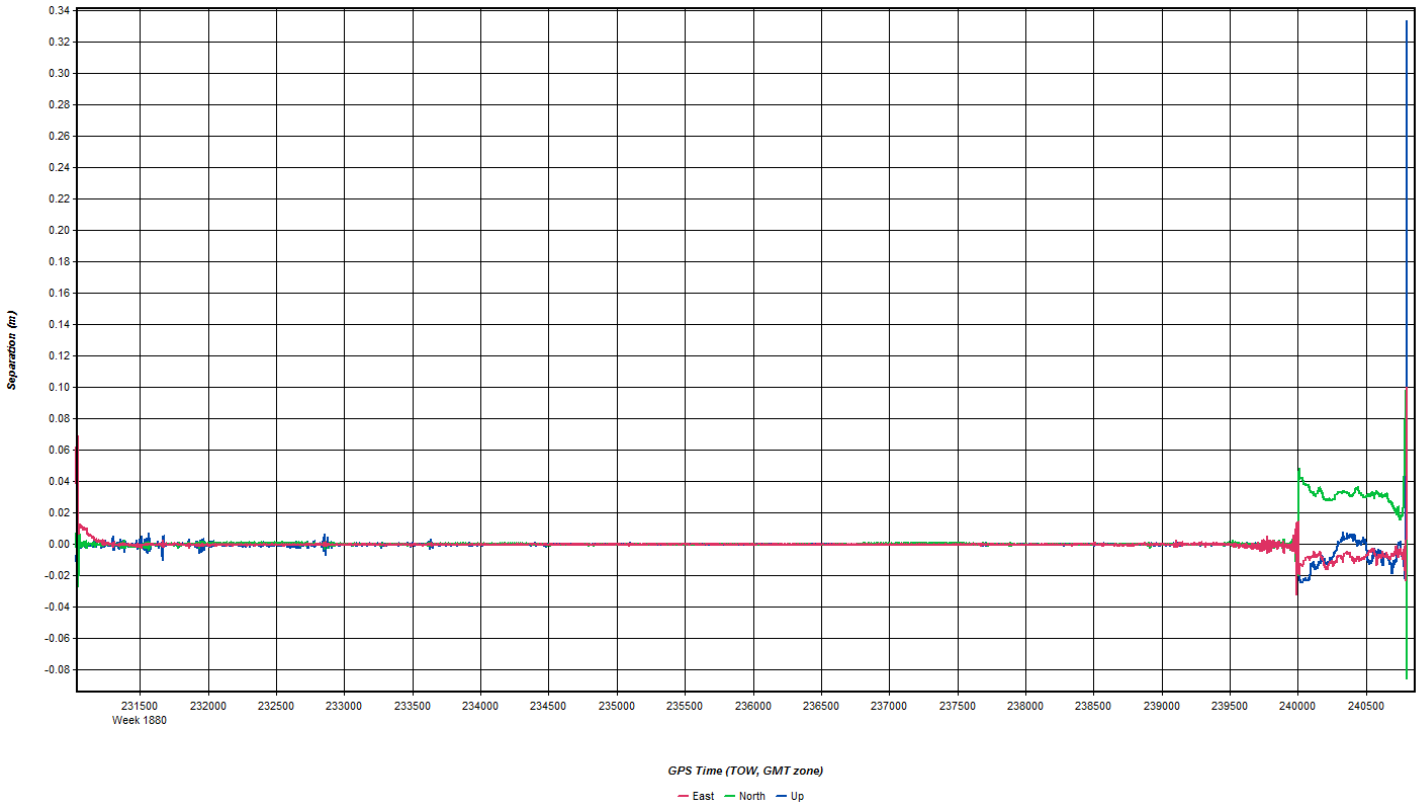
Quantumspatial, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 **FAX: 888-253-6695** E-Mail: flight-log-distribution-list@aerometric.com

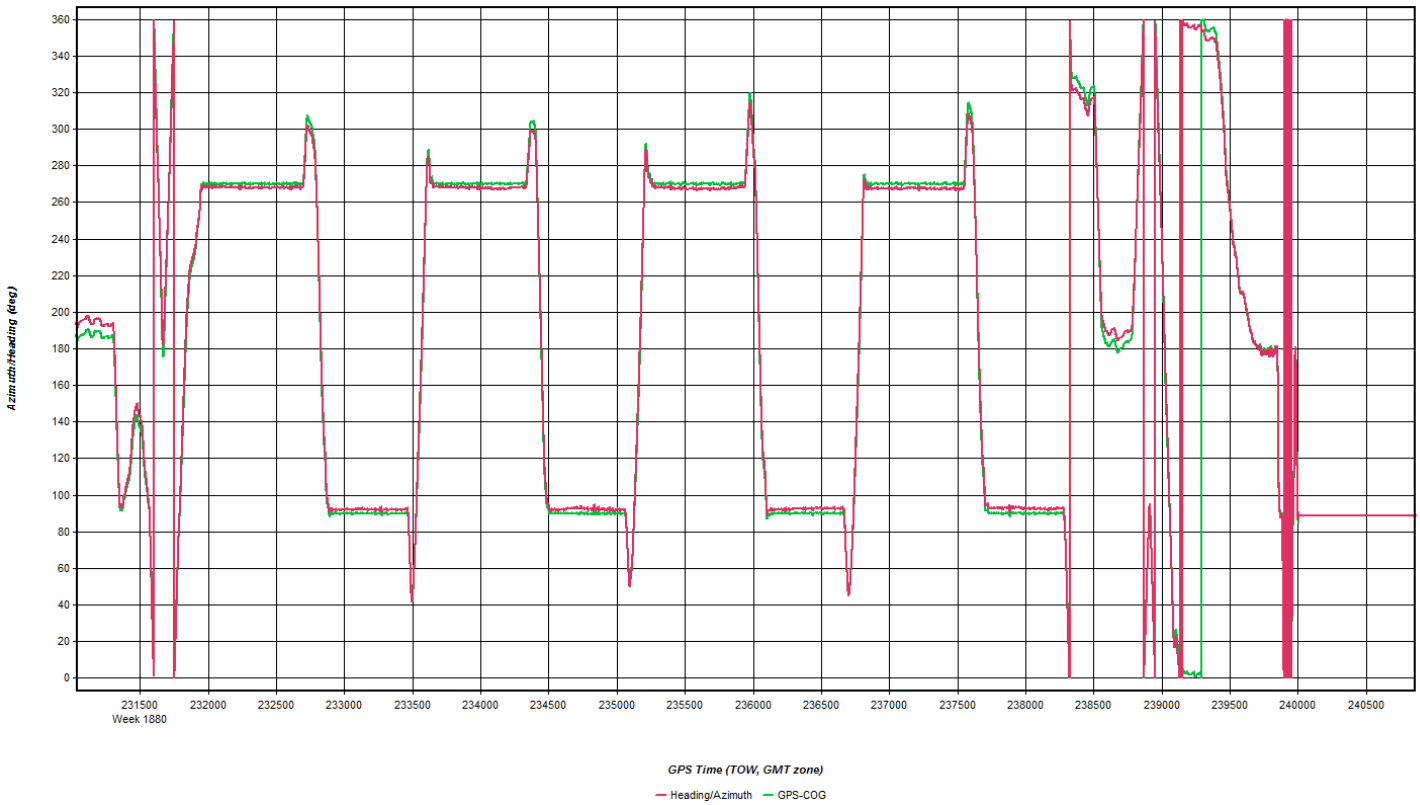
South AOI - State Plane MS East

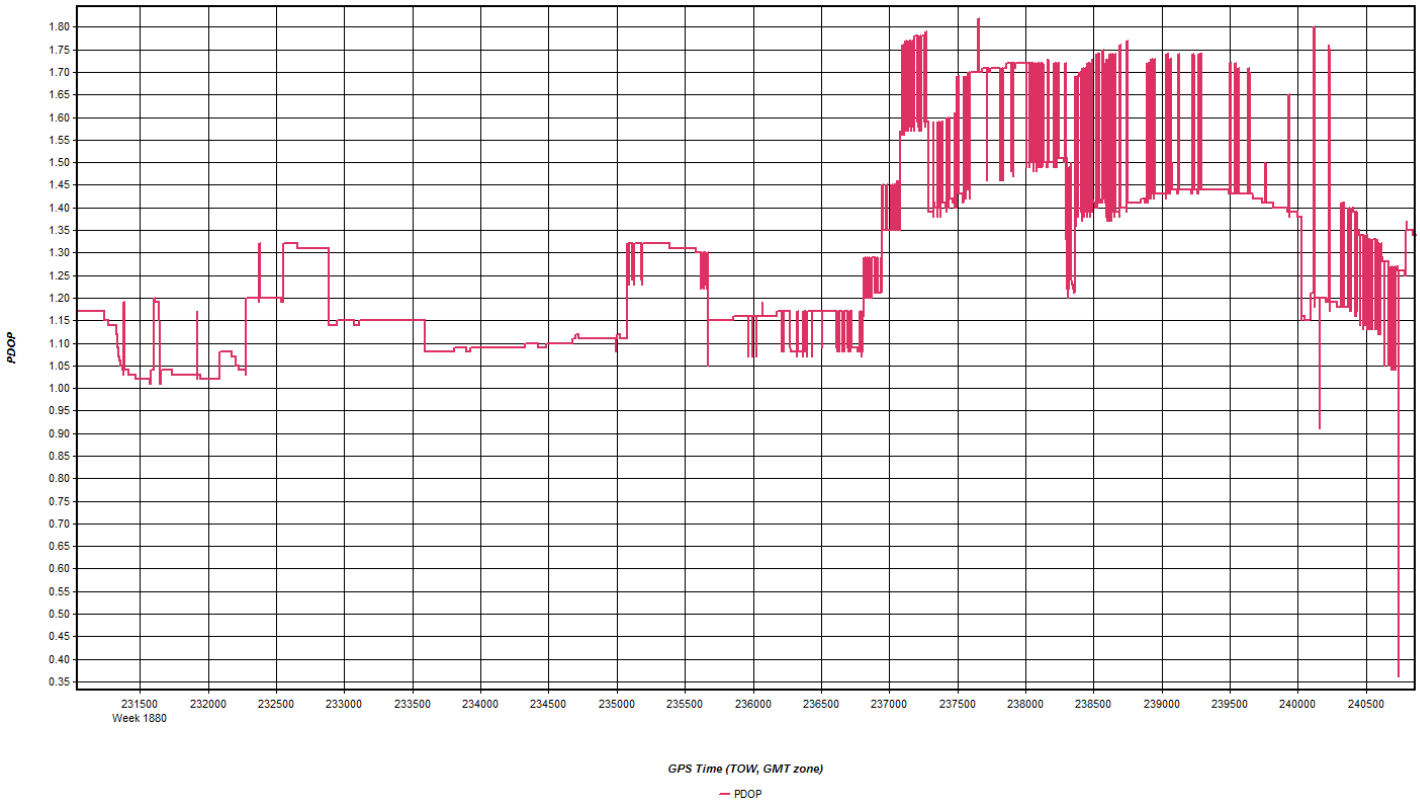
Jan 19, 2016-A (N22GE, SN7178)

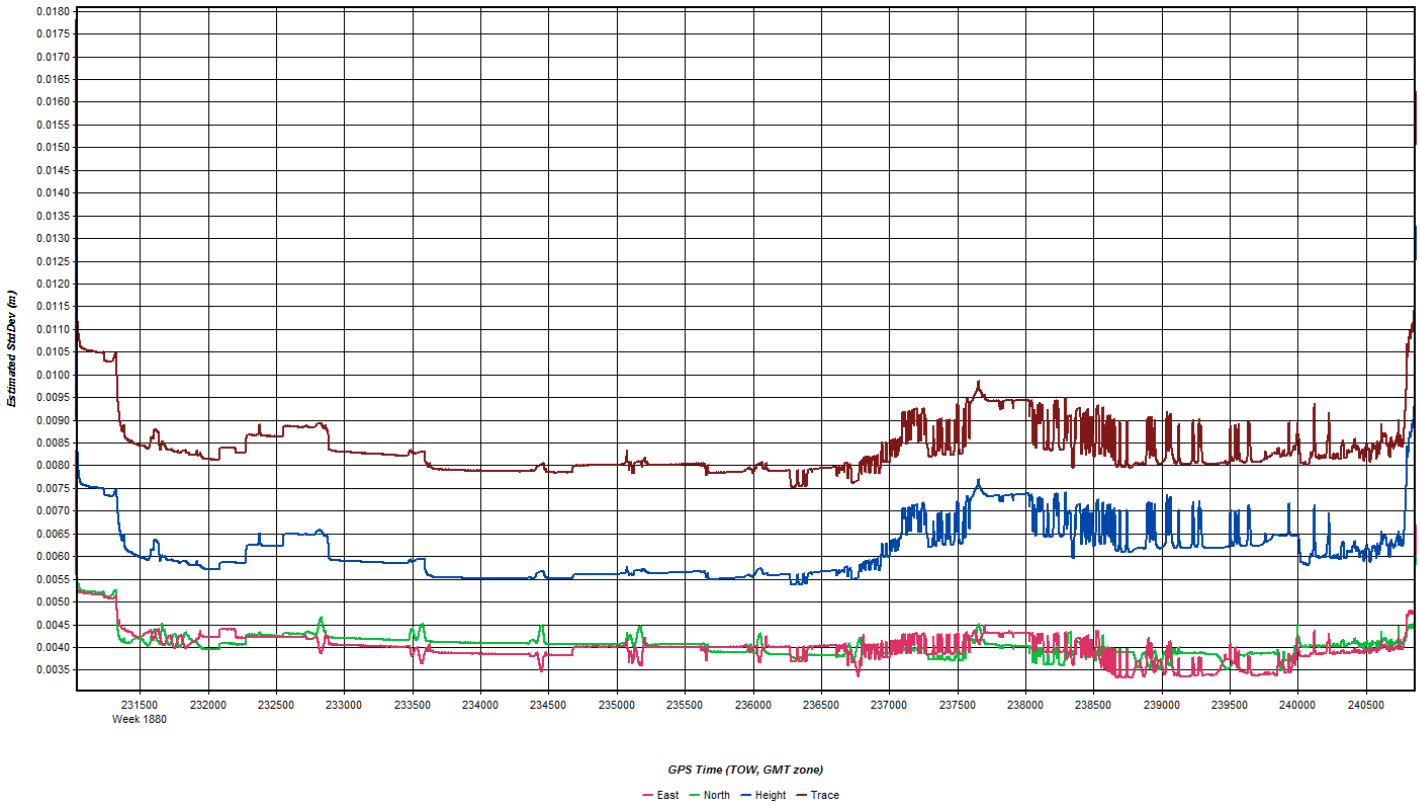


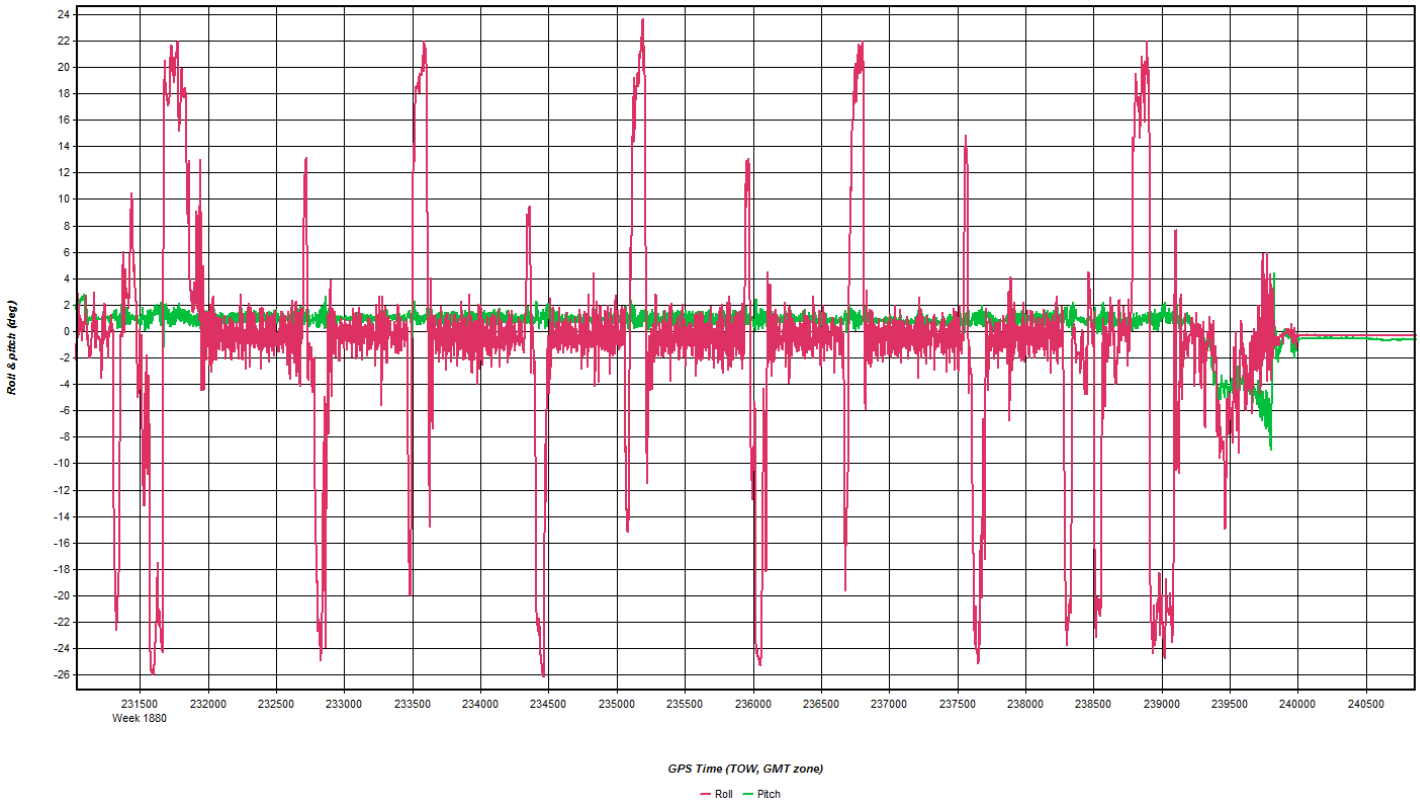

Num Sats
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
231500
Week 1880
232000
232500
233000
233500
234000
234500
235000
235500
236000
236500
237000
237500
238000
238500
239000
239500
240000
240500
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

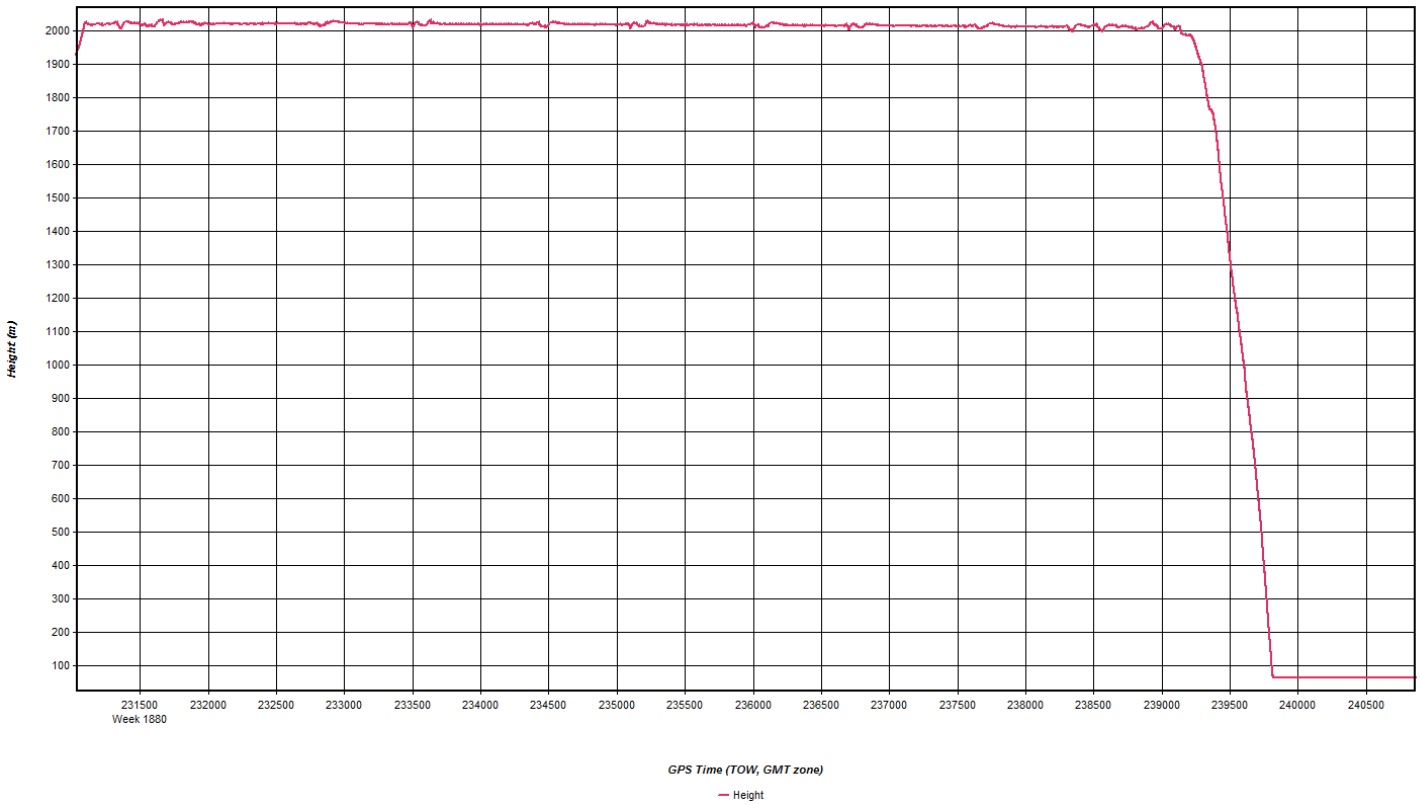

Separation (m)
0.34
0.32
0.30
0.28
0.26
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
231500
Week 1880
232000
232500
233000
233500
234000
234500
235000
235500
236000
236500
237000
237500
238000
238500
239000
239500
240000
240500
GPS Time (TOW, GMT zone)
East
North
Up

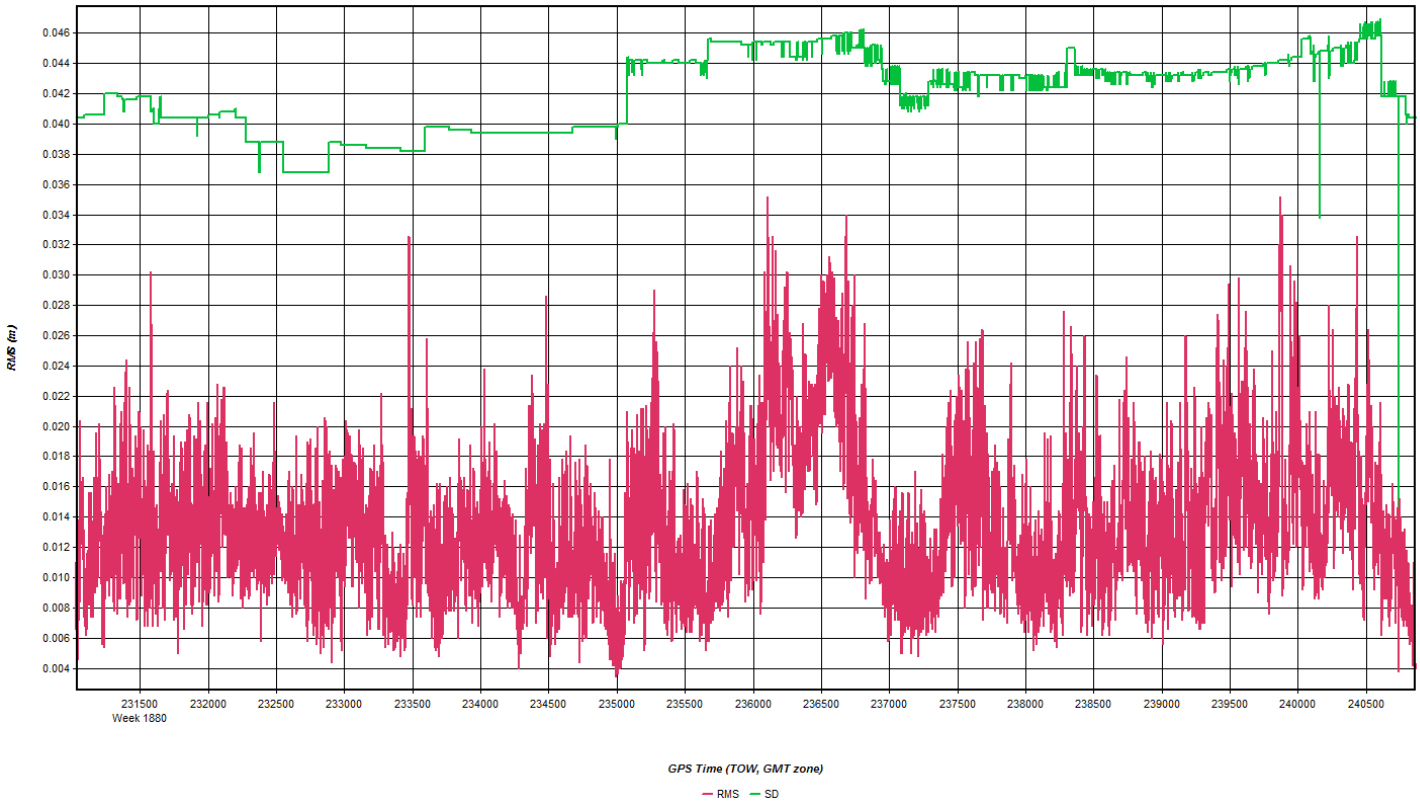

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
231500
Week 1880
232000
232500
233000
233500
234000
234500
235000
235500
236000
236500
237000
237500
238000
238500
239000
239500
240000
240500
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

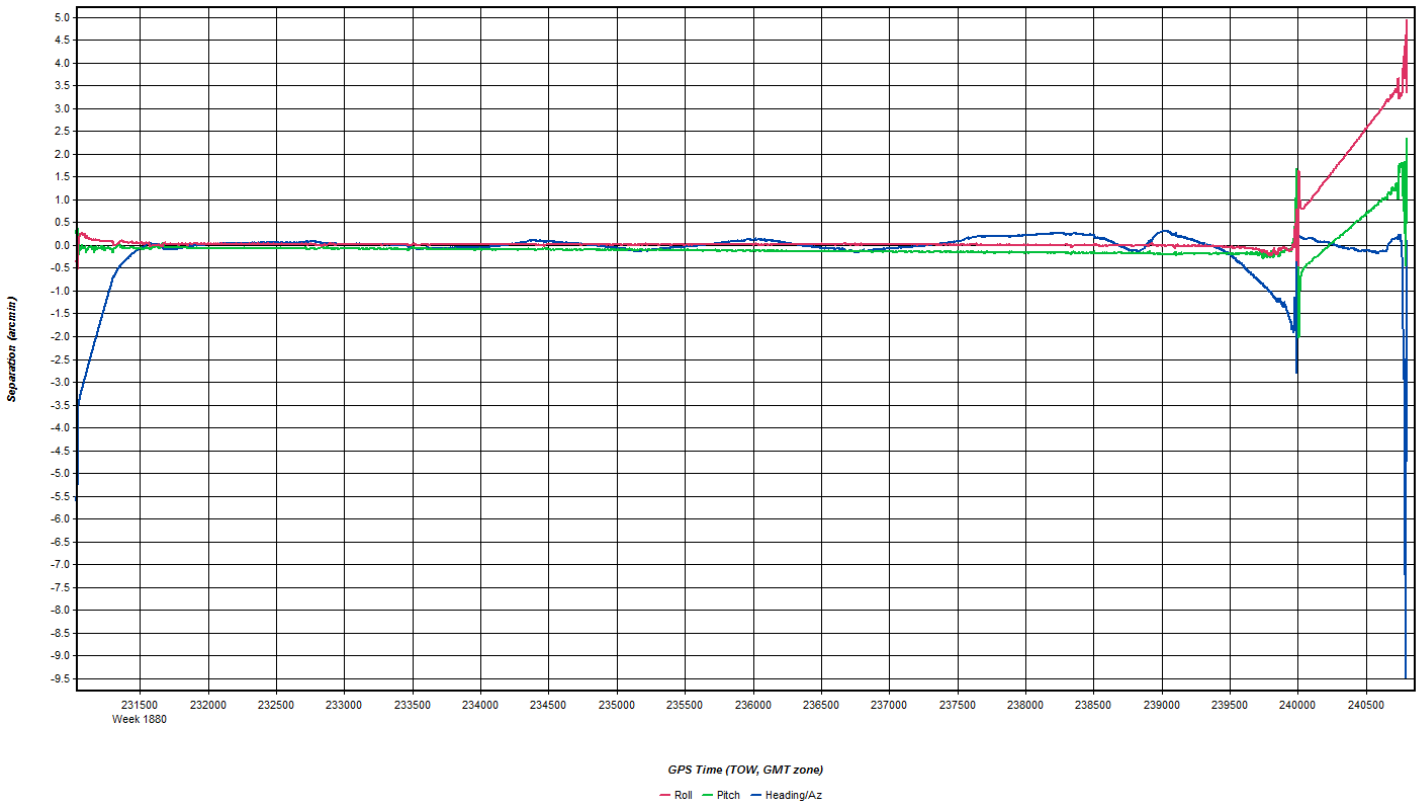

PDOP
1.80
1.75
1.70
1.65
1.60
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.55
0.50
0.45
0.40
0.35
231500
Week 1880
232000
232500
233000
233500
234000
234500
235000
235500
236000
236500
237000
237500
238000
238500
239000
239500
240000
240500
GPS Time (TOW, GMT zone)
PDOP

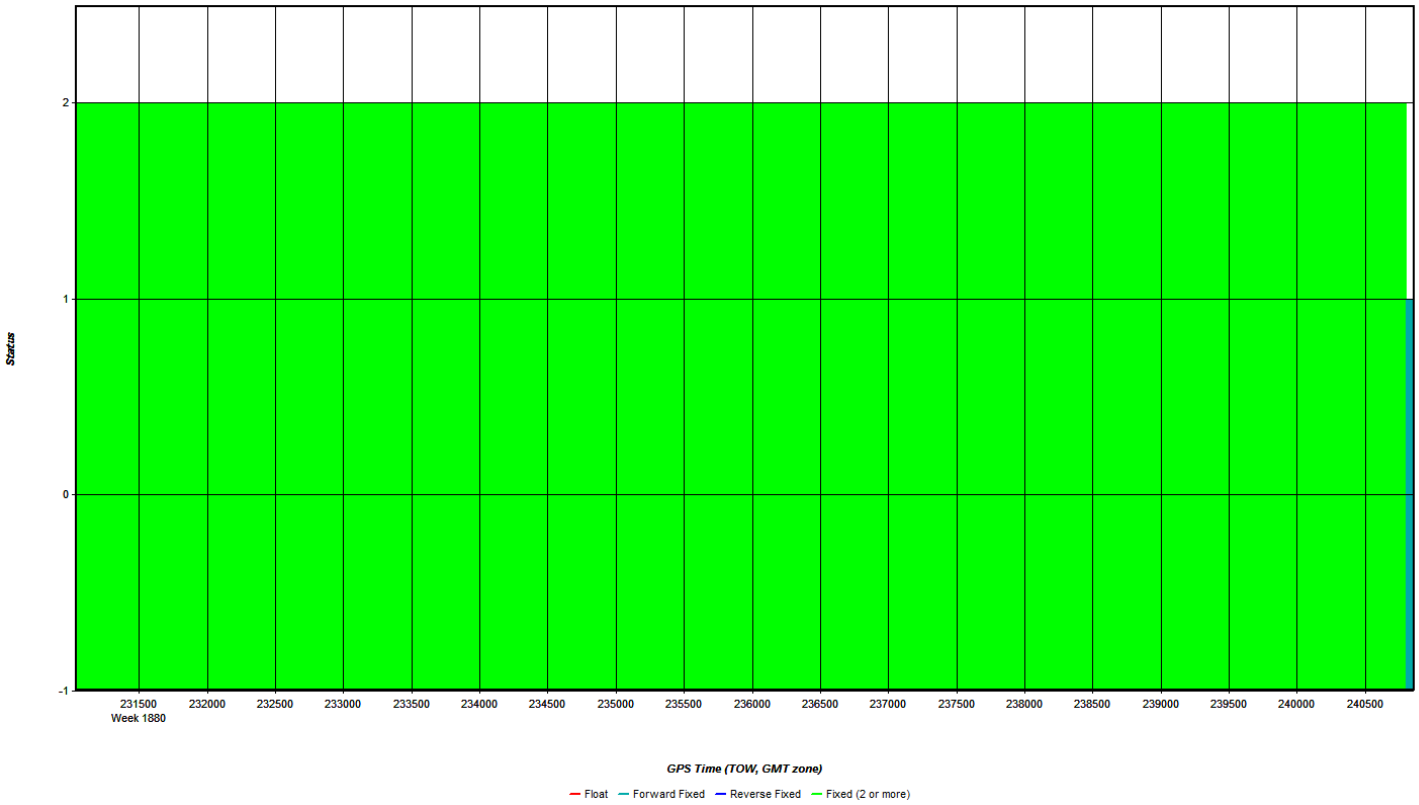

Estimated StdDev (m)
0.0180
0.0175
0.0170
0.0165
0.0160
0.0155
0.0150
0.0145
0.0140
0.0135
0.0130
0.0125
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
231500
Week 1880
232000
232500
233000
233500
234000
234500
235000
235500
236000
236500
237000
237500
238000
238500
239000
239500
240000
240500
GPS Time (TOW, GMT zone)
East
North
Height
Trace

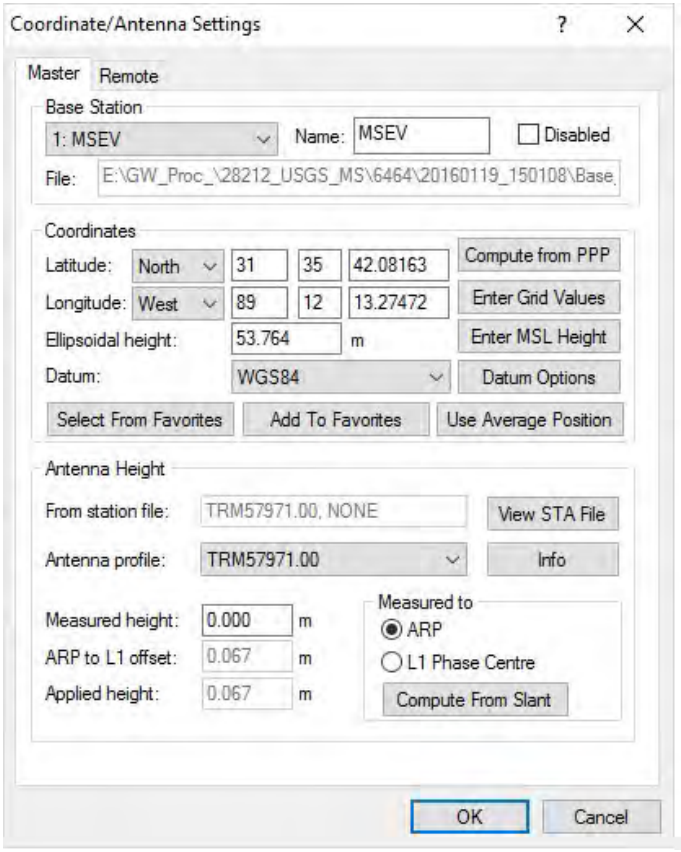

Roll & pitch (deg)
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
231500
Week 1880
232000
232500
233000
233500
234000
234500
235000
235500
236000
236500
237000
237500
238000
238500
239000
239500
240000
240500
GPS Time (TOW, GMT zone)
Roll
Pitch


Height (m)
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
231500
Week 1880
232000
232500
233000
233500
234000
234500
235000
235500
236000
236500
237000
237500
238000
238500
239000
239500
240000
240500
GPS Time (TOW, GMT zone)
Height


RMS (m)
0.046
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
231500
Week 1880
232000
232500
233000
233500
234000
234500
235000
235500
236000
236500
237000
237500
238000
238500
239000
239500
240000
240500
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
-3.0
-3.5
-4.0
-4.5
-5.0
-5.5
-6.0
-6.5
-7.0
-7.5
-8.0
-8.5
-9.0
-9.5
231500
Week 1880
232000
232500
233000
233500
234000
234500
235000
235500
236000
236500
237000
237500
238000
238500
239000
239500
240000
240500
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
231500
Week 1880
232000
232500
233000
233500
234000
234500
235000
235500
236000
236500
237000
237500
238000
238500
239000
239500
240000
240500
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSEV
Name: MSEV
Disabled
File: E:\GW_Proc_\28212_USGS_MS\6464\20160119_150108\Base
Coordinates
Latitude: North 31 35 42.08163
Longitude: West 89 12 13.27472
Ellipsoidal height: 53.764 m
Datum: WGS84
Compute from PPP
Enter Grid Values
Enter MSL Height
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file: TRM57971.00, NONE
View STA File
Antenna profile: TRM57971.00
Info
Measured height: 0.000 m
ARP to L1 offset: 0.067 m
Applied height: 0.067 m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log

OPERATORS FLIGHT LOG

YYYYMMDD_TIME(GPS)

MISSION: 20160119-15D108 DATE: 1-19-16 LEICA ALS-70 351

PILOT: MICAH YBARRA OPERATOR: Jim Schoose AIRCRAFT: N3286E SENSOR: 7178

PROJECT NUMBER AND NAME	STATUS	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	GPS TIME START	GPS TIME STOP	MM70 DRIVE	REMARKS
28312											15:03	16:37		FERRY: TOP → SITE 1.4
USGS Mississippi												16:14		CORS - MSEV
		1001	270	170	55	40	373	255	6243	16:27	16:37	H	
		1002	90						6243	16:41	16:50		
		1003	270						6256	16:54	17:05		
		1004	90						6240	17:08	17:17		
		1005	270						6233	17:21	17:31		
		1006	90						6247	17:35	17:44		
		1007	270						6227	17:48	17:58		
		1008	90						6224	18:02	18:11		
		X	181	180					6224	18:16	18:19		
											18:28		CORS - MSEV
											18:44		FERRY: SITE → PIB .2
										19:24	20:33		FERRY: PIB → TOP 1.1

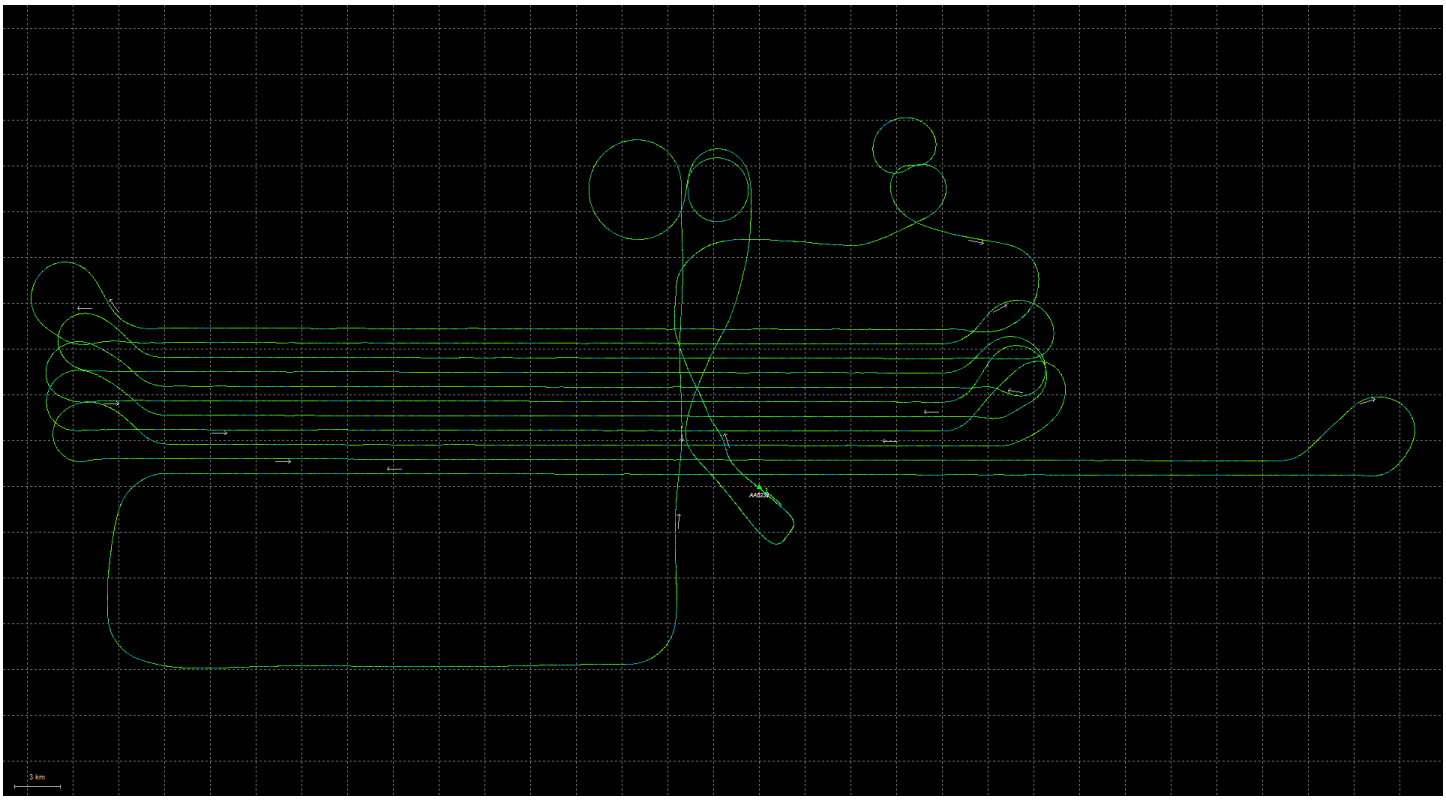
AIRCRAFT

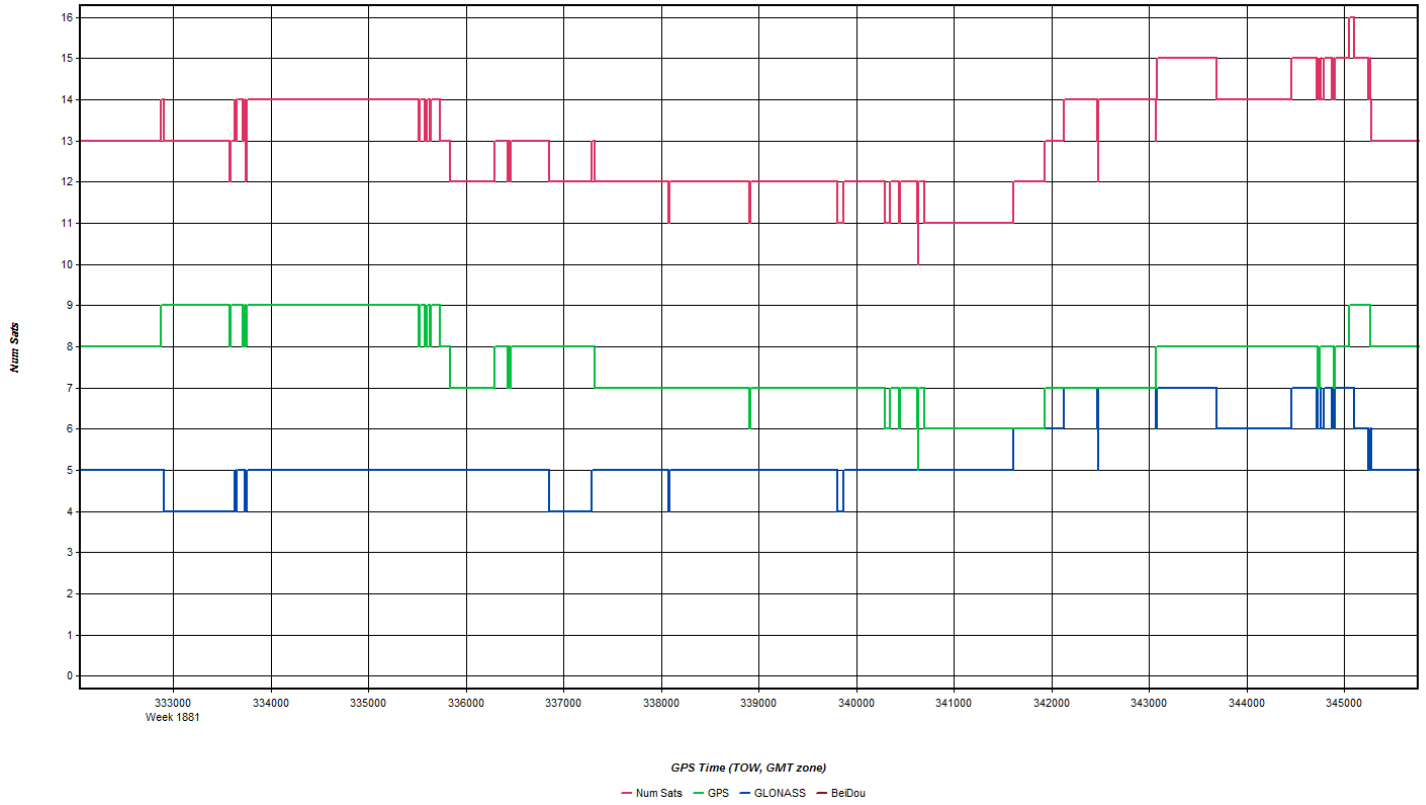
STATUS	TOTAL LINES	FLOWN	LEFT	SITE	FERRY	STATIC	START	STOP	NOTES:
⊘ 28312	508	8		1.8	1.4	3.6	15:03	18:44	Hobbs 8566.2
○					1.1	WX SKC			8569.6
○					2.7				8576.6

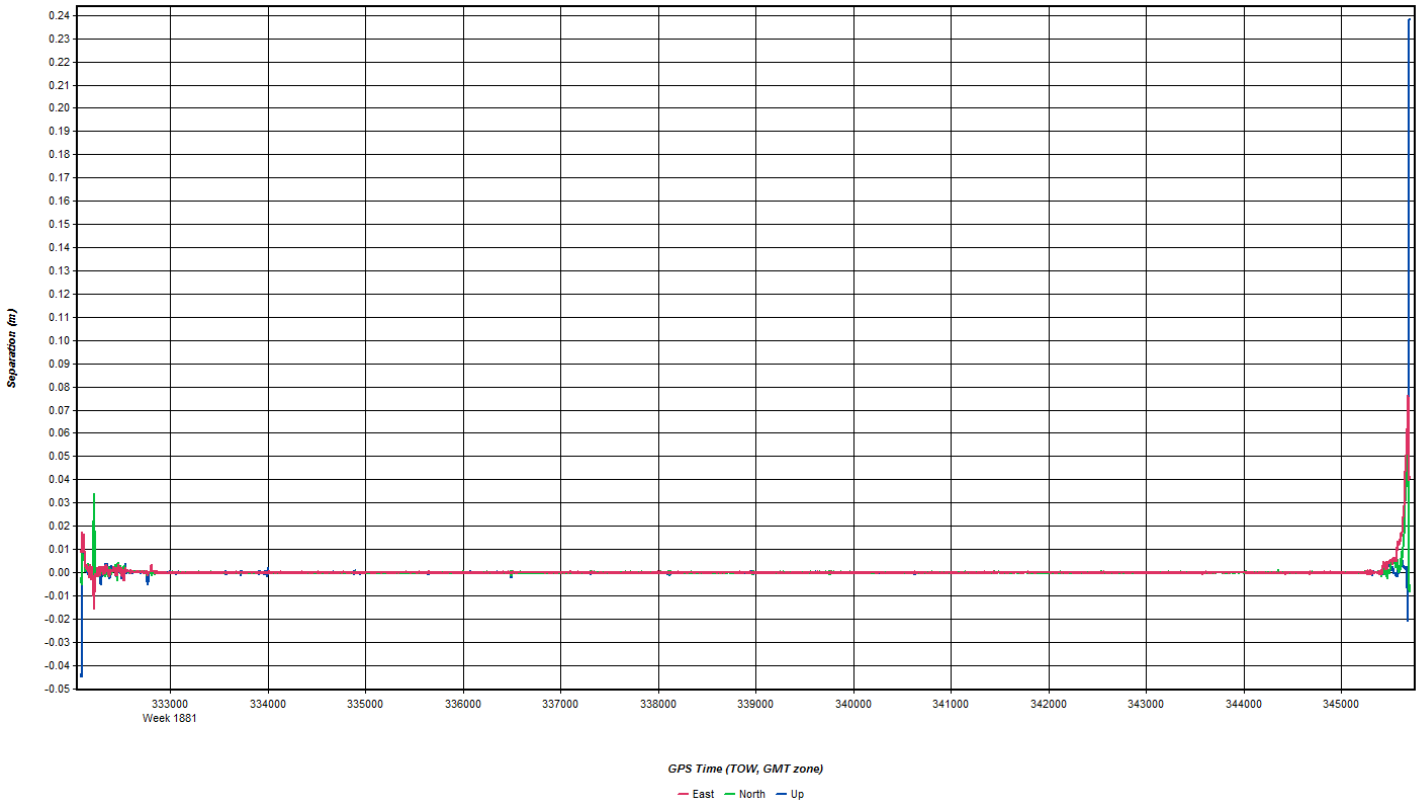
Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 **FAX: 888-253-6695** E-Mail: amephoto@quantumspatial.com

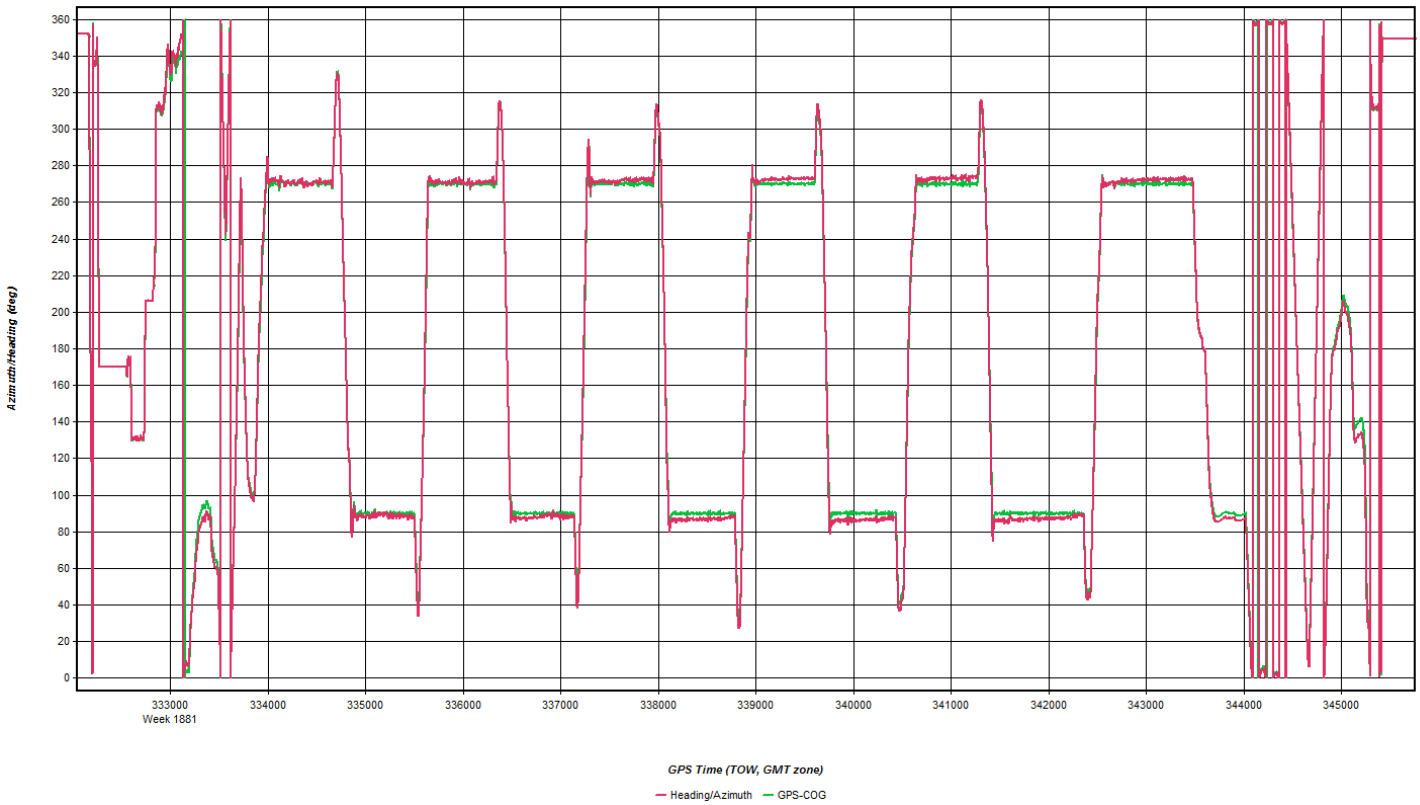
South AOI - State Plane MS East

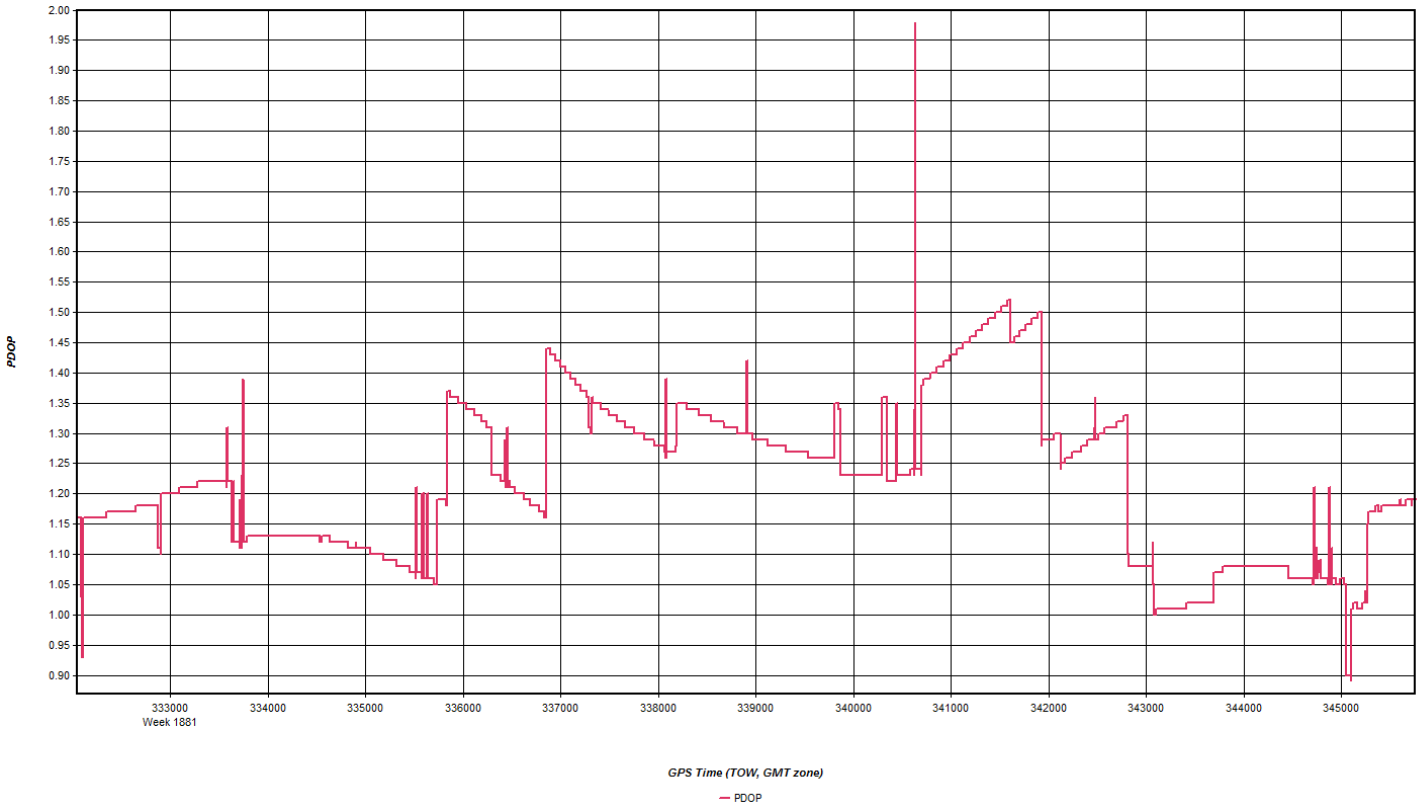
Jan 27, 2016-A (N208NR, SN8227)

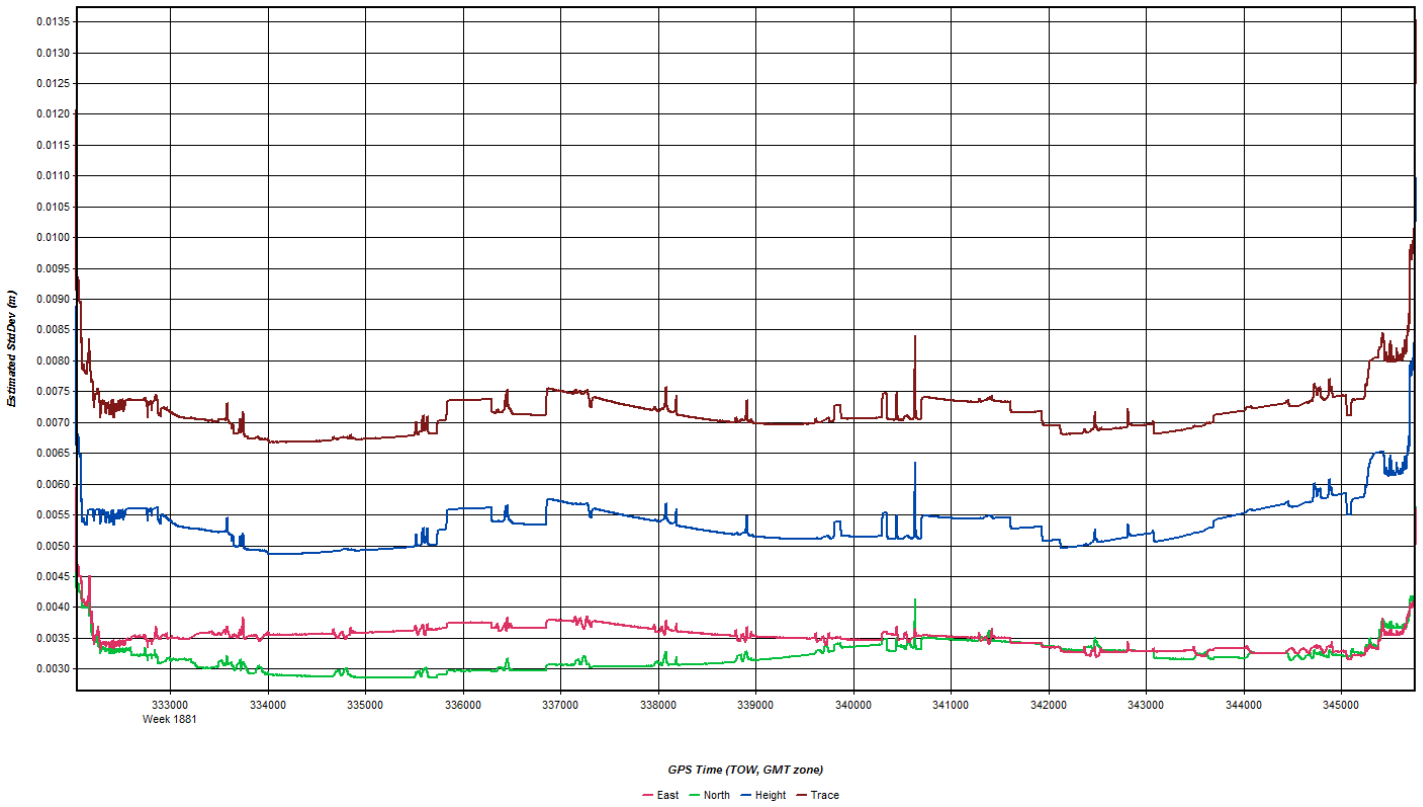


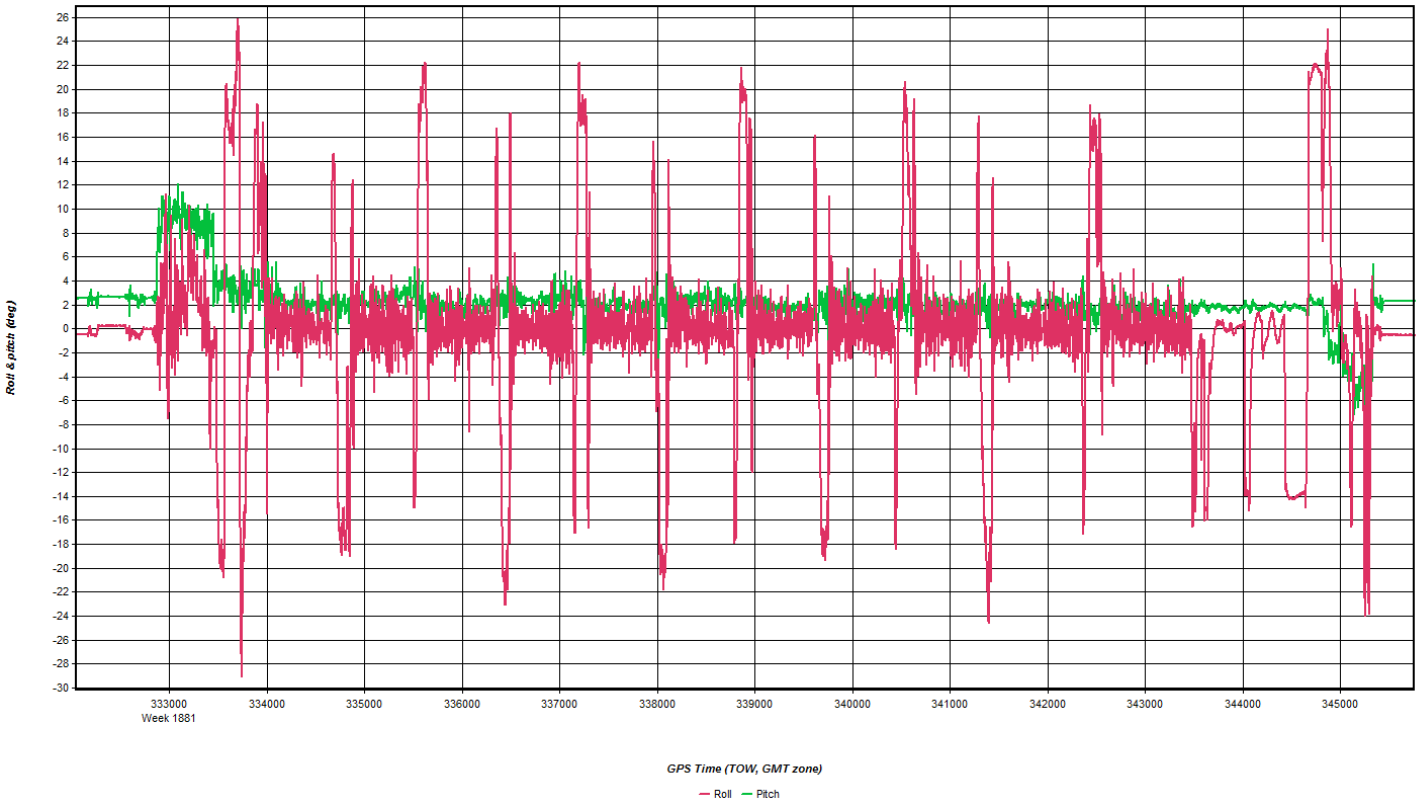

Num Sats
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
333000
Week 1881
334000
335000
336000
337000
338000
339000
340000
341000
342000
343000
344000
345000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou


Separation (m)
0.24
0.23
0.22
0.21
0.20
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.03
-0.04
-0.05
333000
Week 1881
334000
335000
336000
337000
338000
339000
340000
341000
342000
343000
344000
345000
GPS Time (TOW, GMT zone)
East
North
Up

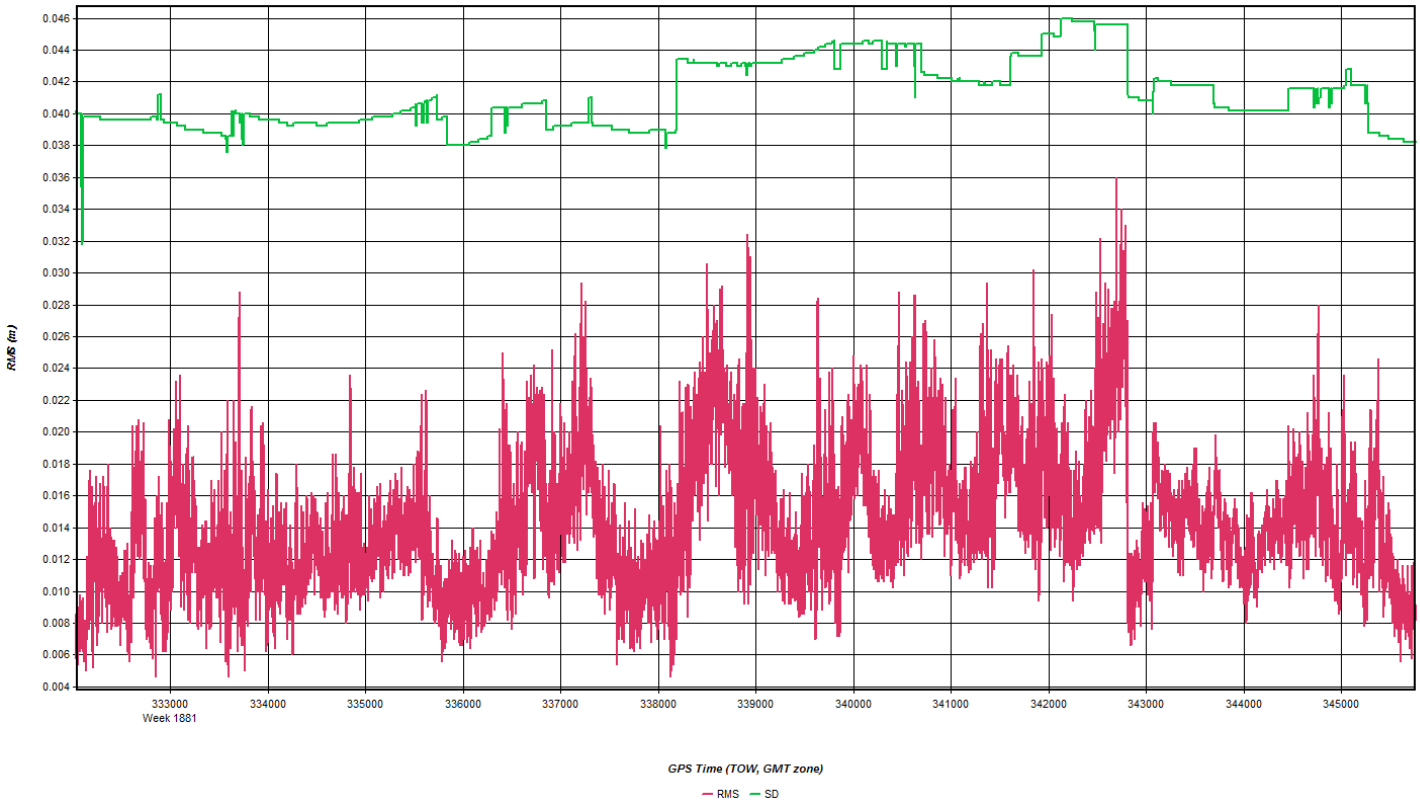

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
333000
Week 1881
334000
335000
336000
337000
338000
339000
340000
341000
342000
343000
344000
345000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

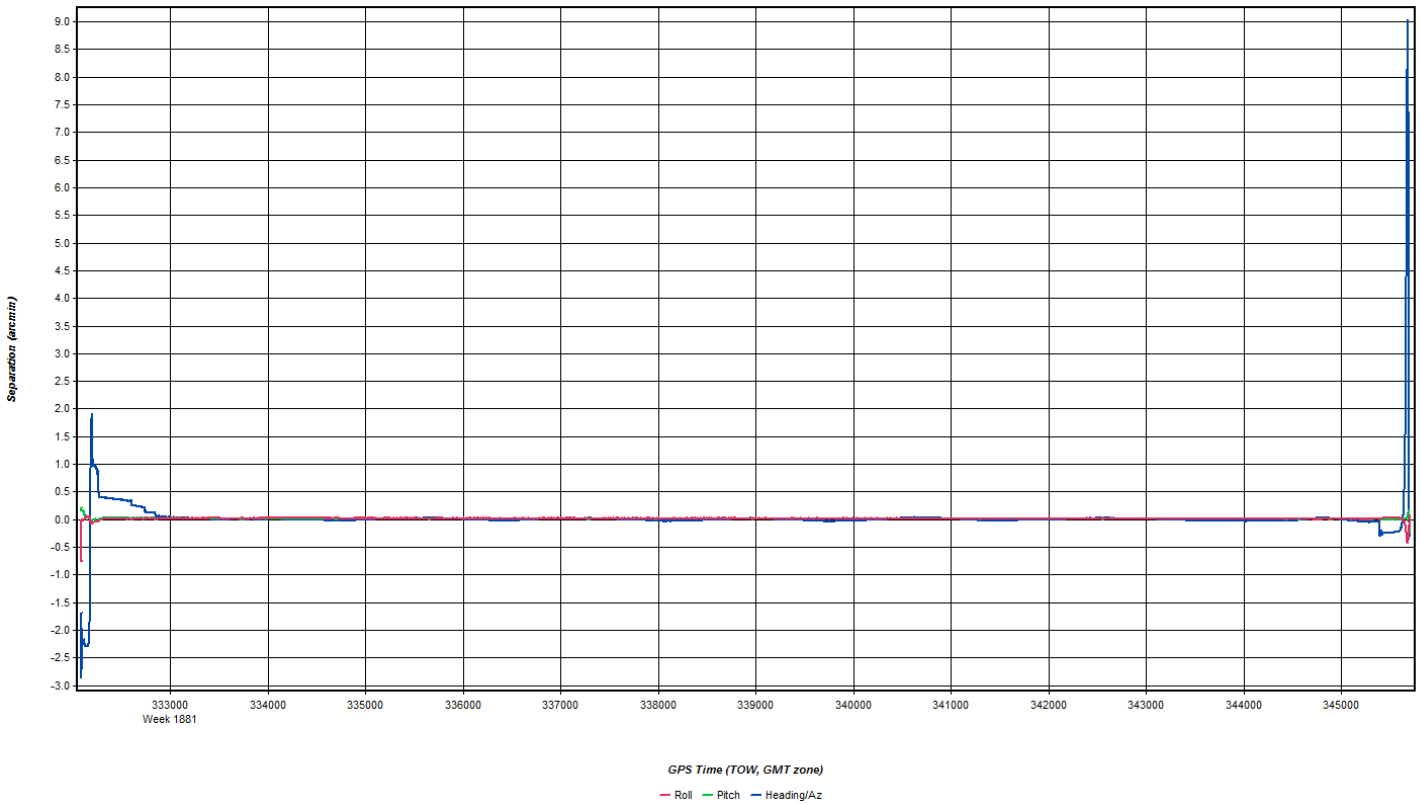

PDOP
2.00
1.95
1.90
1.85
1.80
1.75
1.70
1.65
1.60
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
0.95
0.90
333000
Week 1881
334000
335000
336000
337000
338000
339000
340000
341000
342000
343000
344000
345000
GPS Time (TOW, GMT zone)
PDOP

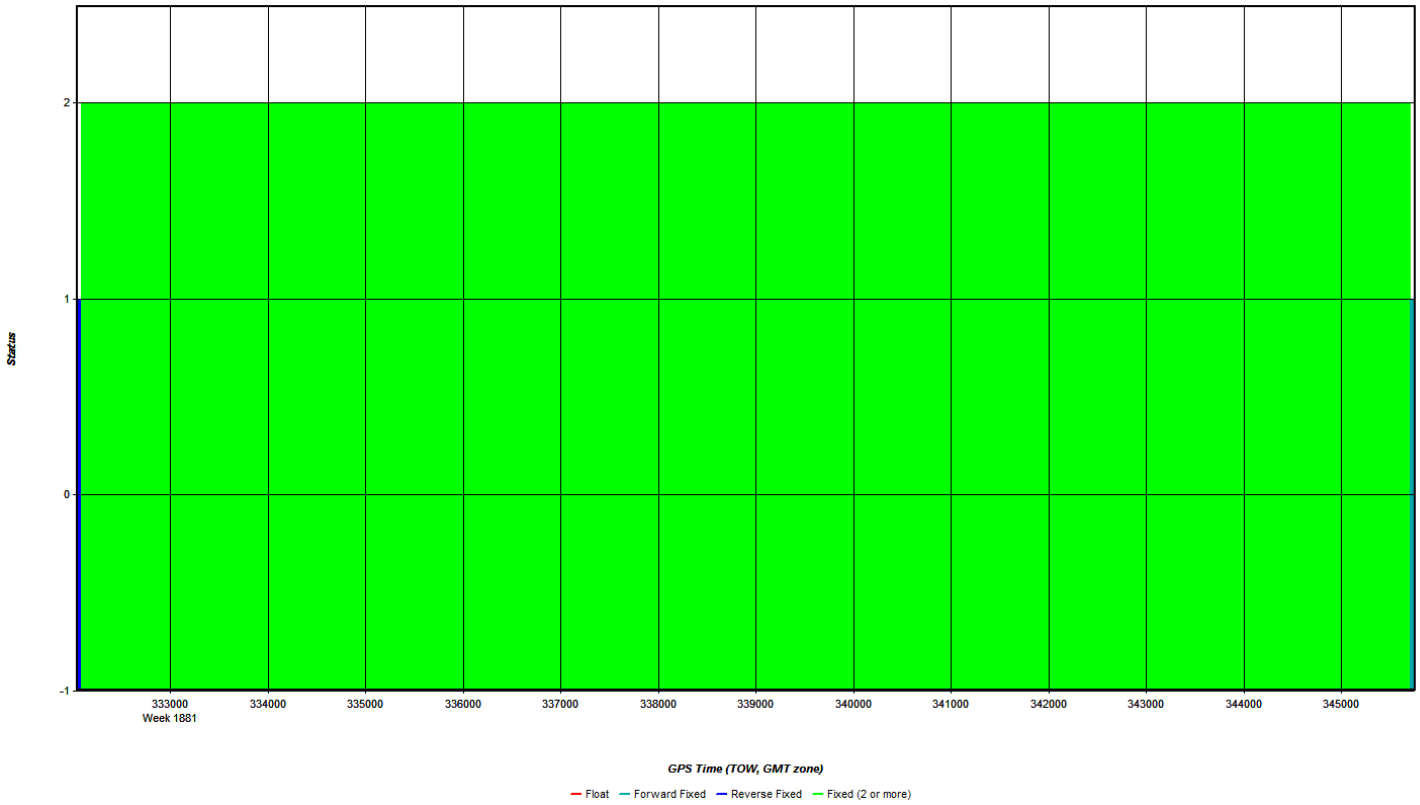

Estimated StdDev (m)
0.0135
0.0130
0.0125
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
333000
Week 1881
334000
335000
336000
337000
338000
339000
340000
341000
342000
343000
344000
345000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

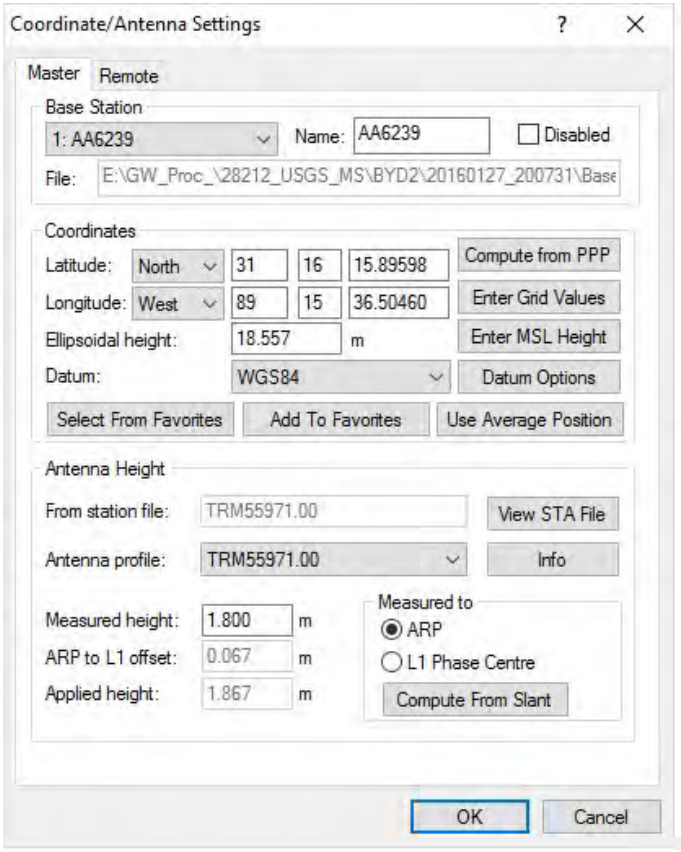

Roll & pitch (deg)
26
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
-28
-30
333000
Week 1881
334000
335000
336000
337000
338000
339000
340000
341000
342000
343000
344000
345000
GPS Time (TOW, GMT zone)
Roll
Pitch


Height (m)
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
333000
Week 1881
334000
335000
336000
337000
338000
339000
340000
341000
342000
343000
344000
345000
GPS Time (TOW, GMT zone)
Height

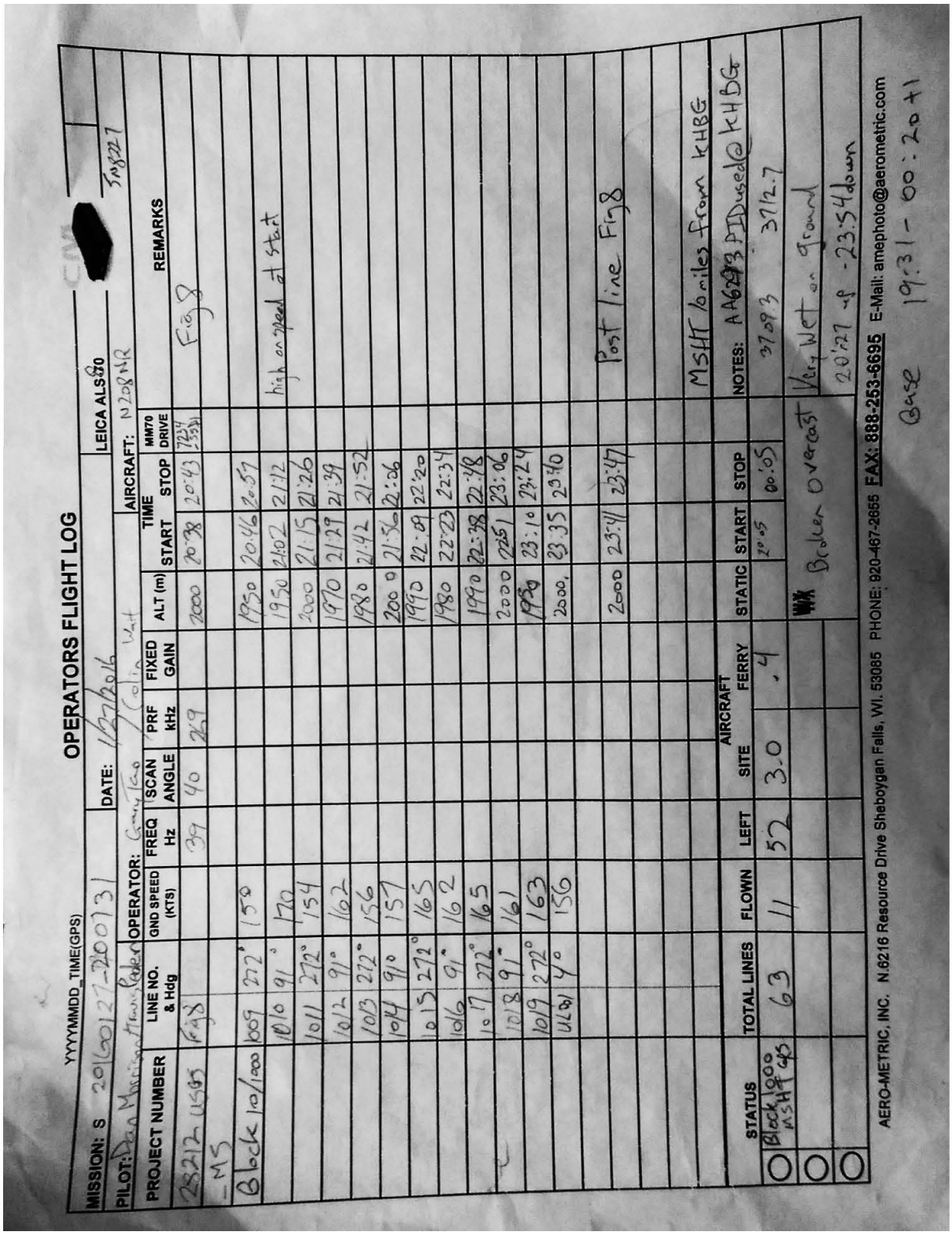

RMS (m)
0.046
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
333000
Week 1881
334000
335000
336000
337000
338000
339000
340000
341000
342000
343000
344000
345000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
-3.0
333000
Week 1881
334000
335000
336000
337000
338000
339000
340000
341000
342000
343000
344000
345000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
333000
Week 1881
334000
335000
336000
337000
338000
339000
340000
341000
342000
343000
344000
345000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
1: AA6239
Name:
AA6239
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\BYD2\20160127_200731\Base
Coordinates
Latitude:
North
31
16
15.89598
Compute from PPP
Longitude:
West
89
15
36.50460
Enter Grid Values
Ellipsoidal height:
18.557
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM55971.00
View STA File
Antenna profile:
TRM55971.00
Info
Measured height:
1.800
m
ARP to L1 offset:
0.067
m
Applied height:
1.867
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log



OPERATORS FLIGHT LOG

YYYYMMDD_TIME(GPS)

MISSION: S 20160127_200731 DATE: 1/27/2016 LEICA ALS80

PILOT: Dean Montgomery OPERATOR: Greg Tao / Colin Watt AIRCRAFT: N208NR

PROJECT NUMBER	LINE NO. & Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	ALT (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS
25212 USGS	F18		39	40	239		2000	20:38	20:43	7234 7351	Fig 8
-MS											
Block 10/100	109 272°	150					1950	20:46	20:57		
	110 91°	170					1950	21:02	21:12		high on speed at start
	111 272°	154					2000	21:15	21:26		
	112 91°	162					1970	21:29	21:39		
	113 272°	156					1980	21:42	21:52		
	114 91°	157					2000	21:56	22:06		
	115 272°	165					1990	22:09	22:20		
	116 91°	162					1980	22:23	22:34		
	117 272°	165					1990	22:38	22:48		
	118 91°	161					2000	22:51	23:06		
	119 272°	163					1990	23:10	23:24		
	1201 4°	150					2000	23:35	23:40		
							2000	23:41	23:47		Post line Fig8

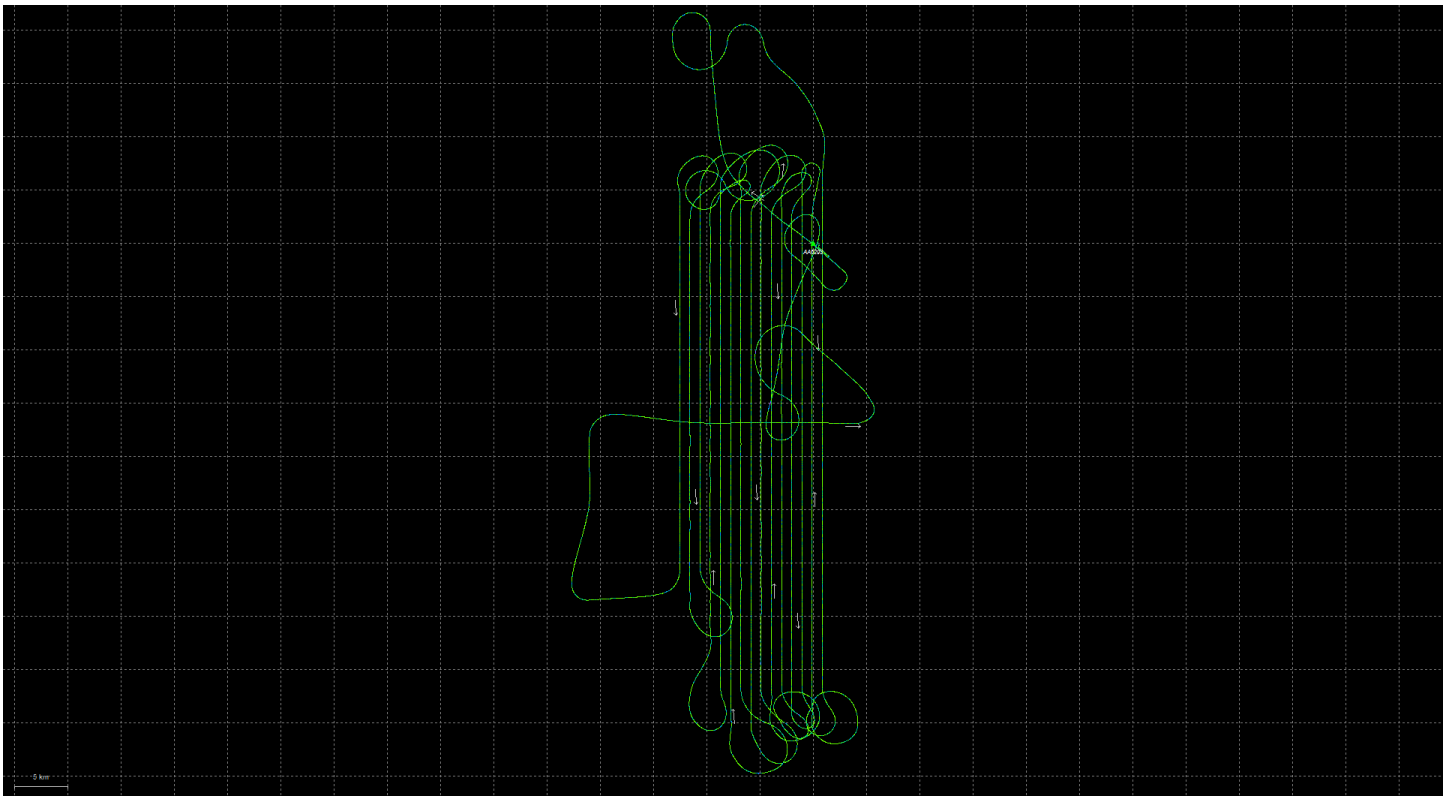
STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	TIME START	TIME STOP	NOTES:
Block 1000 MSHP GS	63	11	52	3.0	.4		20:05	00:05	MSHT 10 miles from KHBG
						WX Broken overcast			AA6293 PIDused@KHBG 37093 3712.7
									Very Wet on ground
									20'27 up -23:54 down

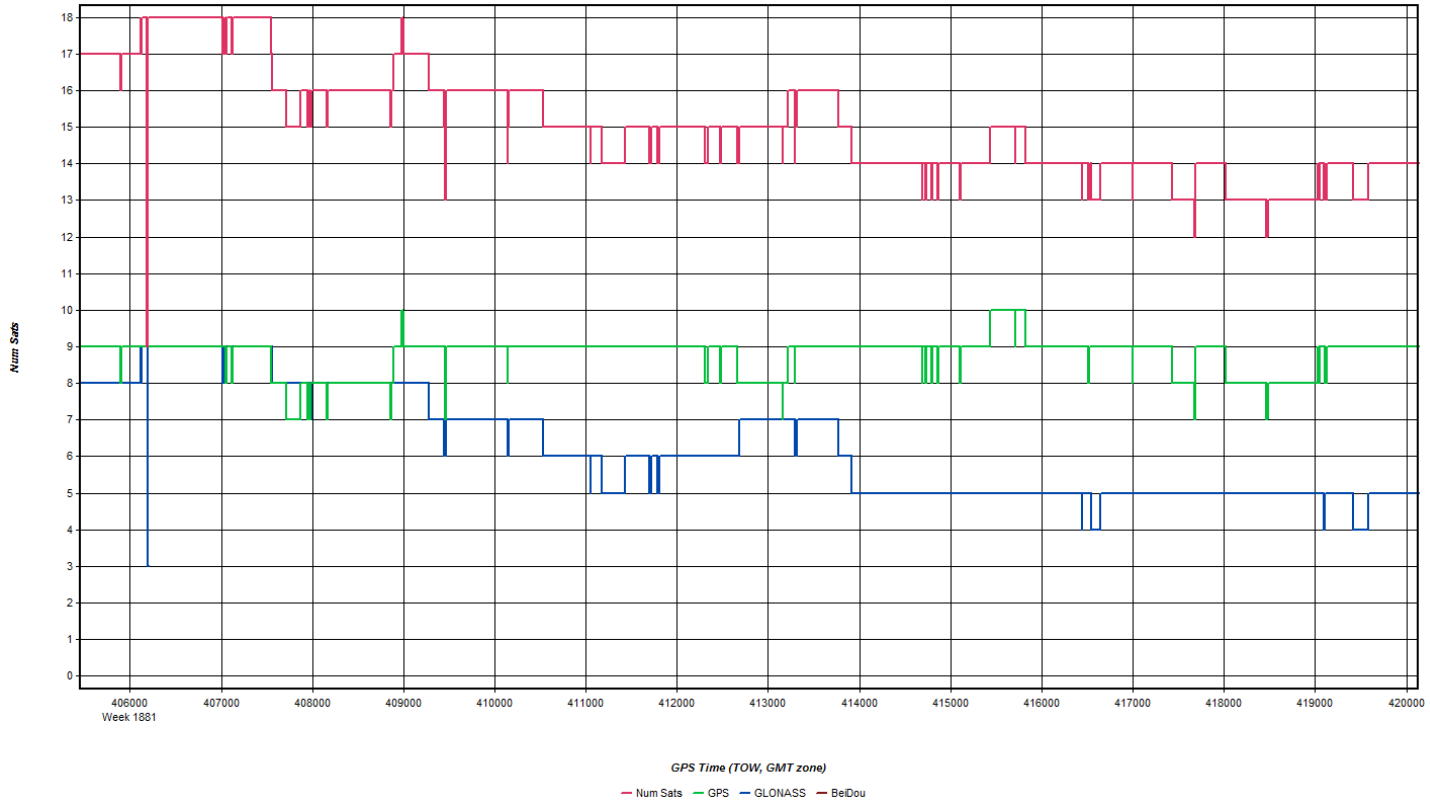
AERO-METRIC, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@aerometric.com

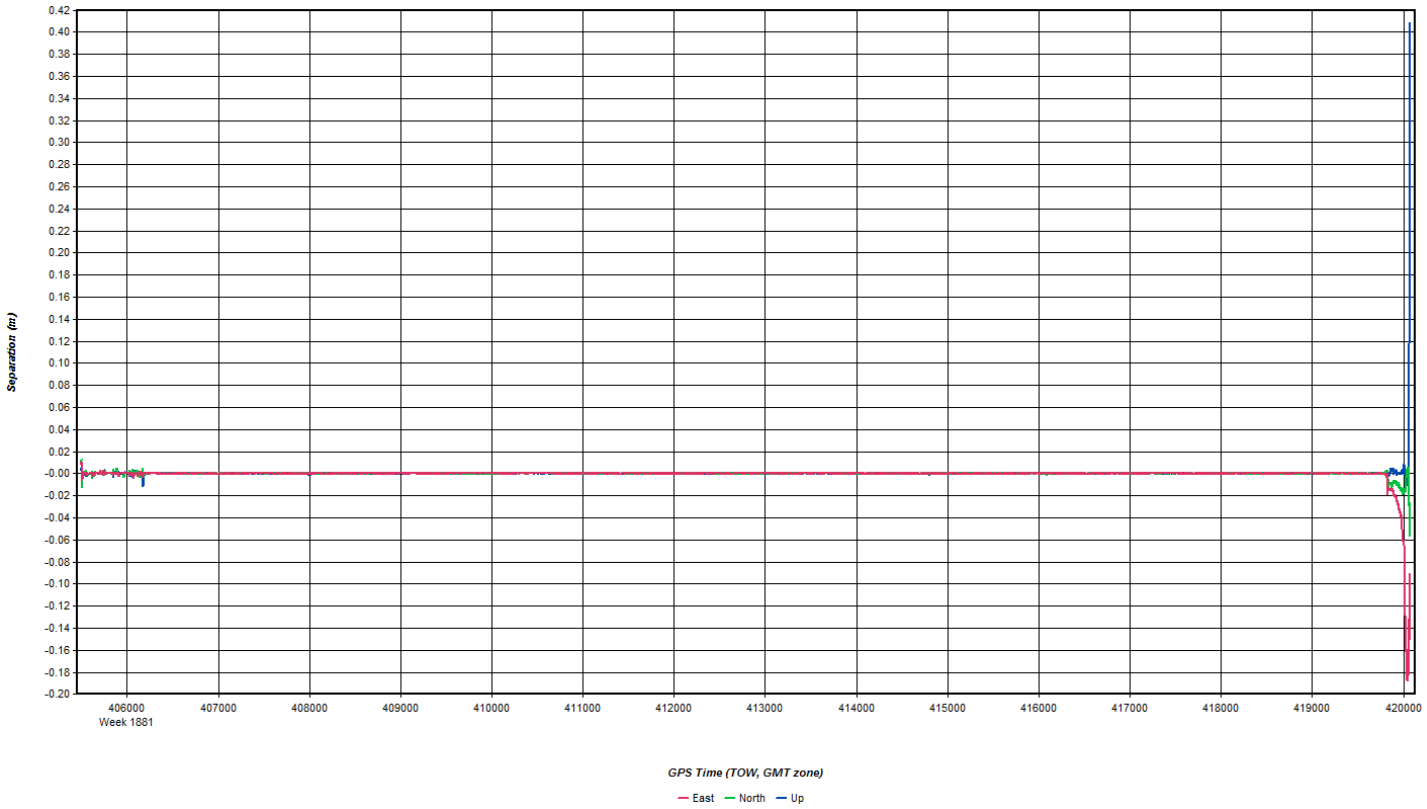
Base 19:31 - 00:20+1

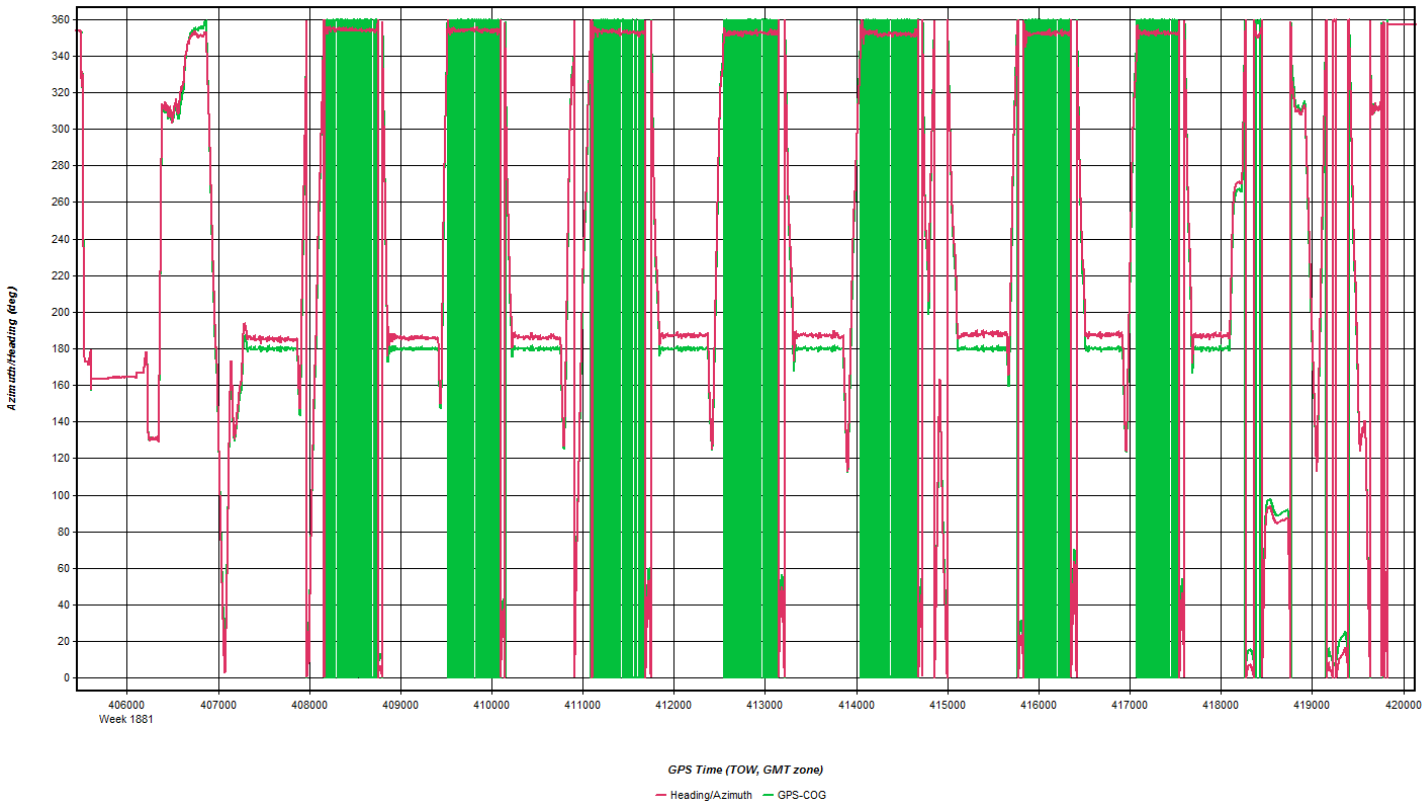
South AOI - State Plane MS East

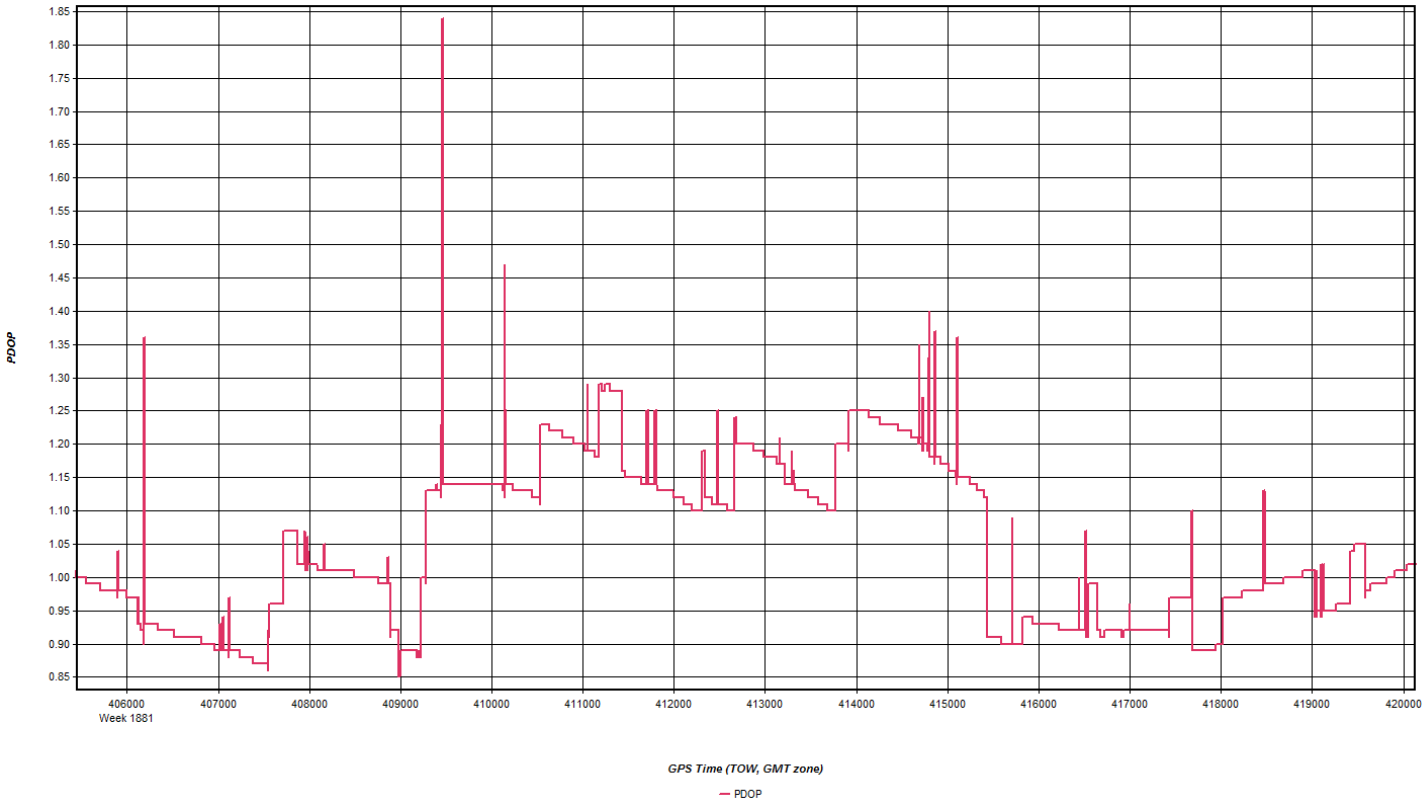
Jan 28, 2016-A (N208NR, SN8227)

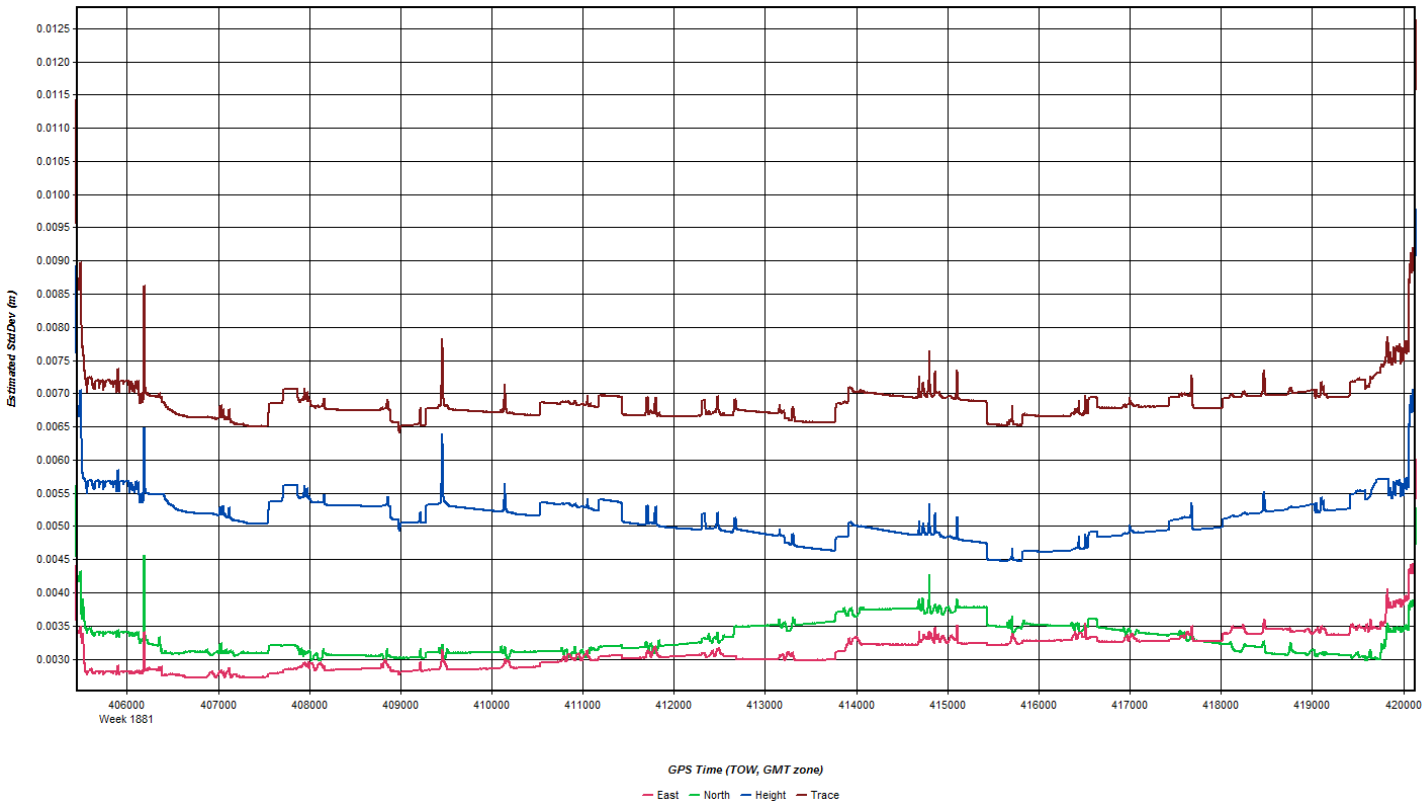



Num Sats
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
406000
Week 1881
407000
408000
409000
410000
411000
412000
413000
414000
415000
416000
417000
418000
419000
420000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

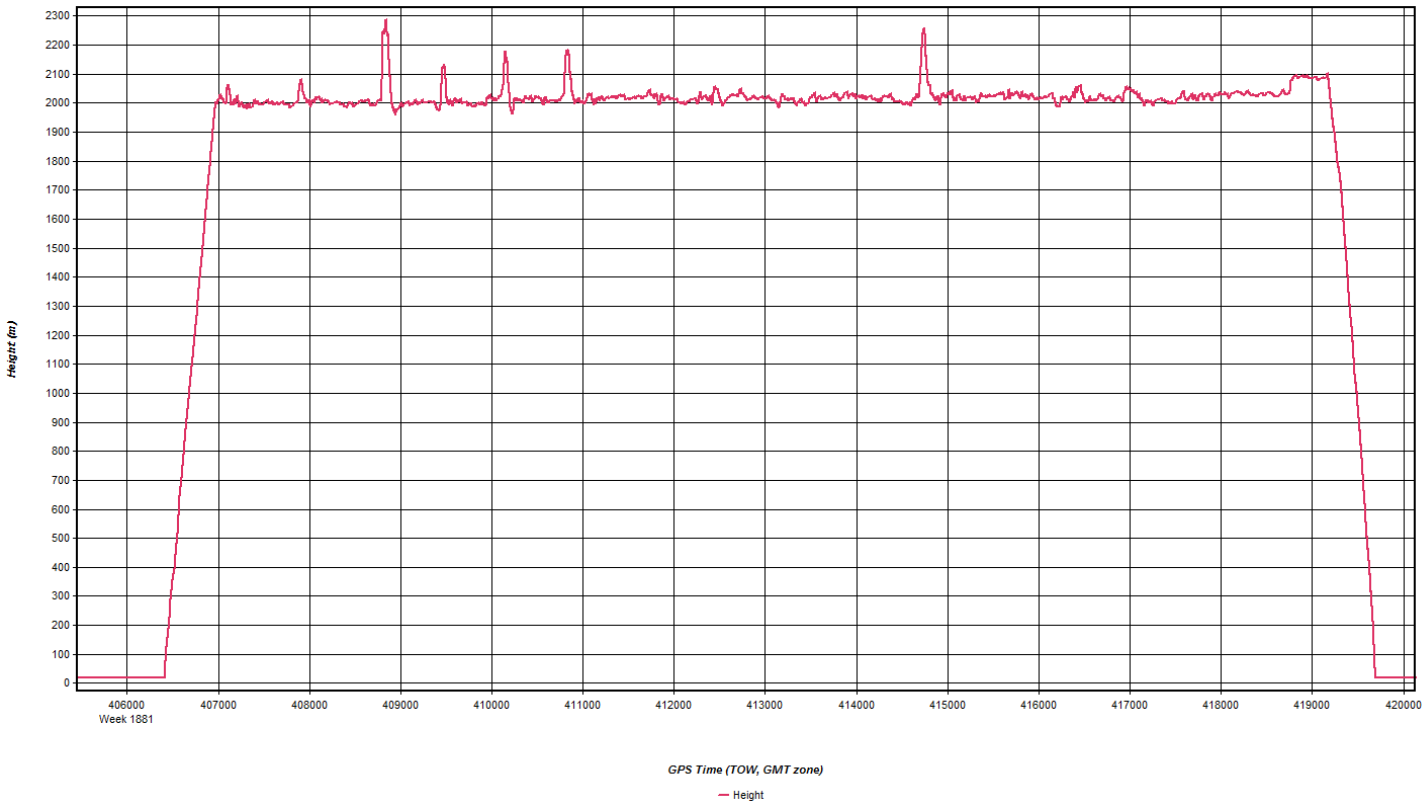

Separation (m)
0.42
0.40
0.38
0.36
0.34
0.32
0.30
0.28
0.26
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
-0.00
-0.02
-0.04
-0.06
-0.08
-0.10
-0.12
-0.14
-0.16
-0.18
-0.20
406000
Week 1881
407000
408000
409000
410000
411000
412000
413000
414000
415000
416000
417000
418000
419000
420000
GPS Time (TOW, GMT zone)
East
North
Up

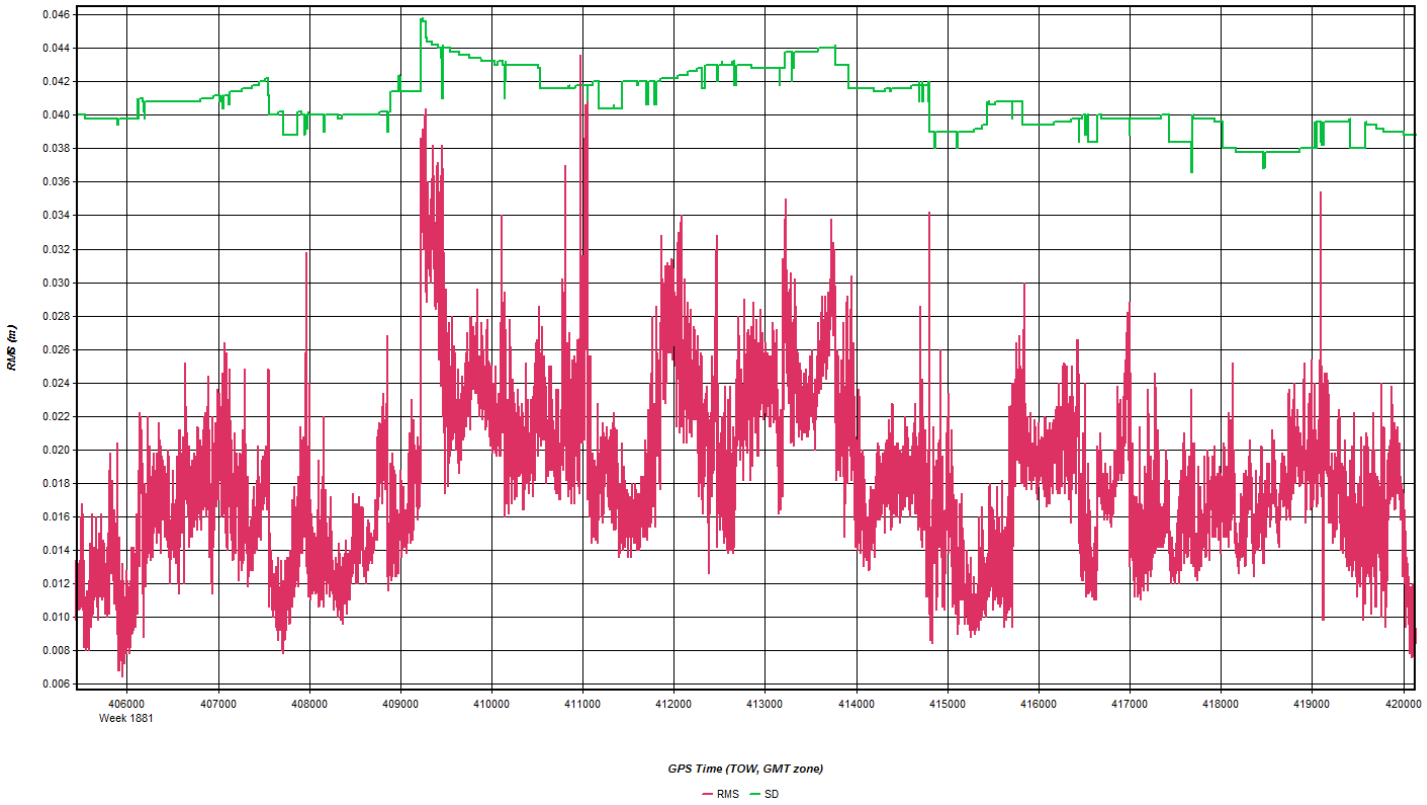

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
406000
Week 1881
407000
408000
409000
410000
411000
412000
413000
414000
415000
416000
417000
418000
419000
420000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

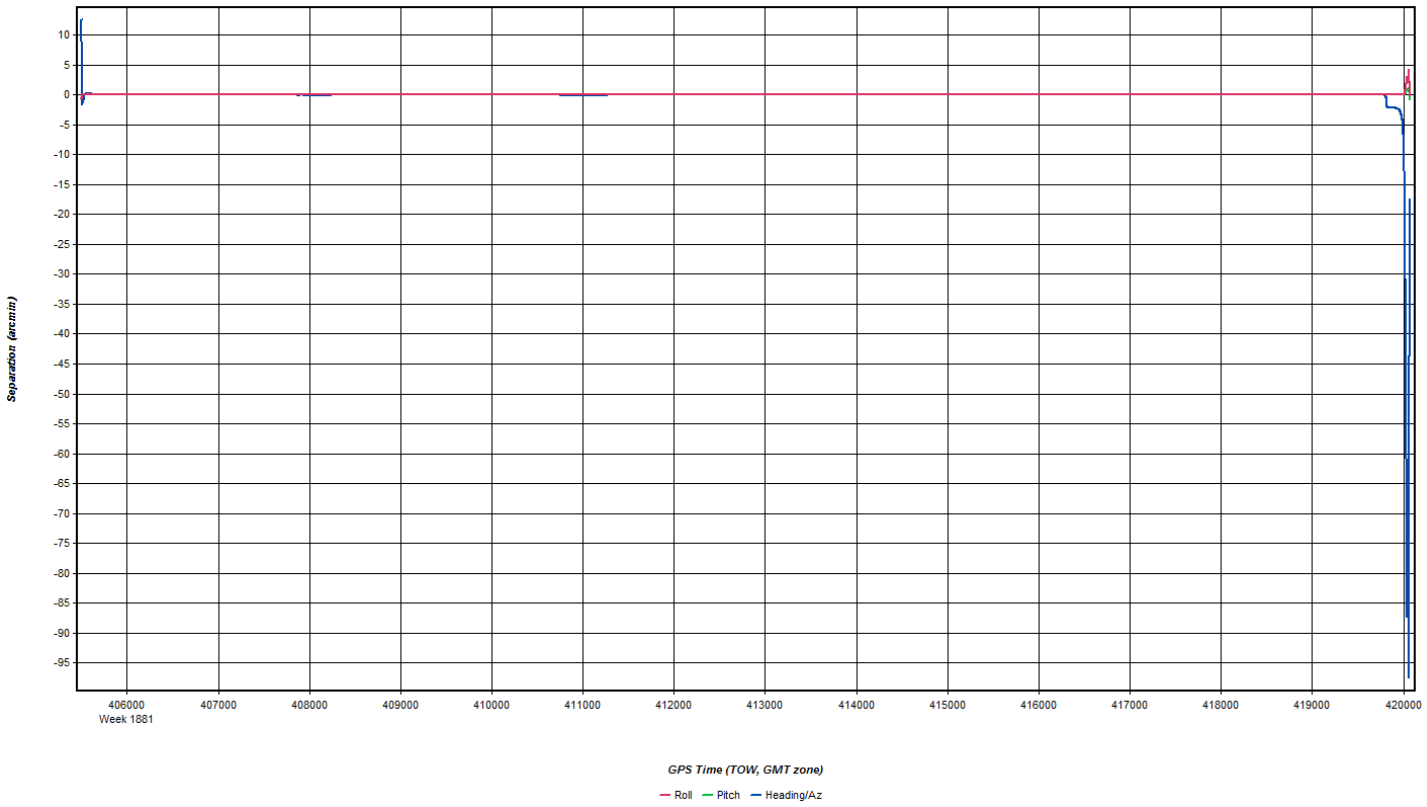

PDOP
1.85
1.80
1.75
1.70
1.65
1.60
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
0.95
0.90
0.85
406000
Week 1881
407000
408000
409000
410000
411000
412000
413000
414000
415000
416000
417000
418000
419000
420000
GPS Time (TOW, GMT zone)
PDOP

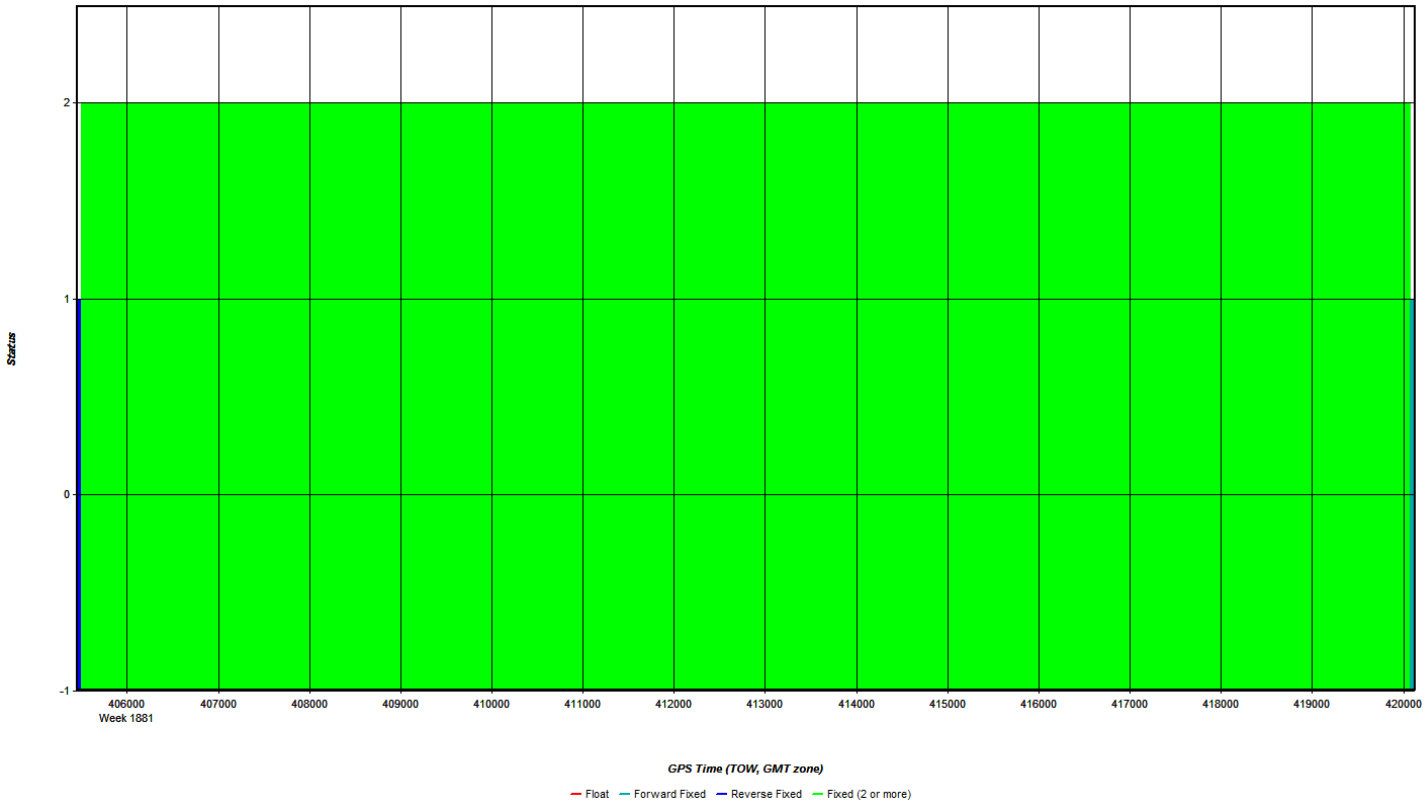

Estimated StdDev (m)
0.0125
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
406000
Week 1881
407000
408000
409000
410000
411000
412000
413000
414000
415000
416000
417000
418000
419000
420000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

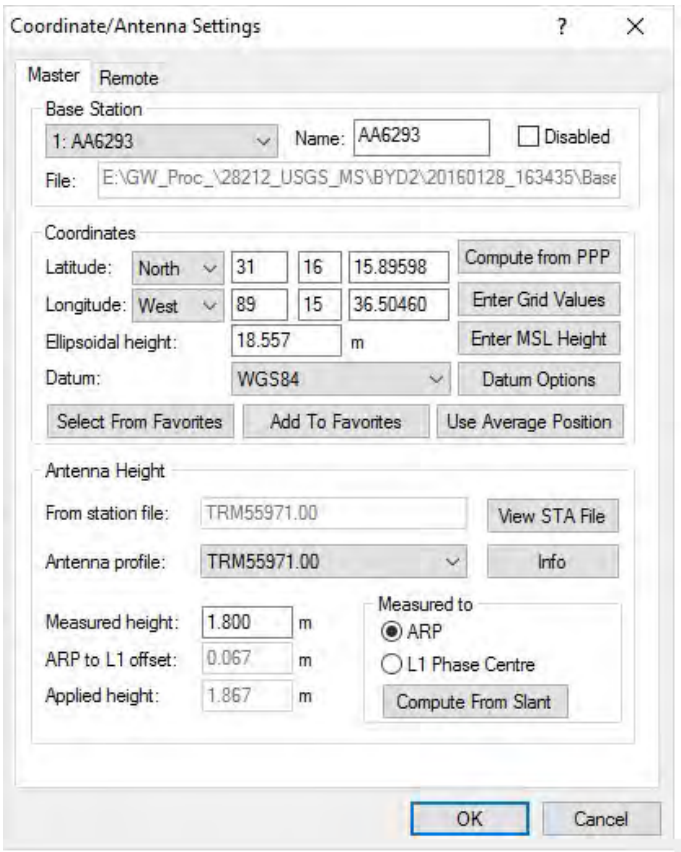

Roll & pitch (deg)
34
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
406000
Week 1881
407000
408000
409000
410000
411000
412000
413000
414000
415000
416000
417000
418000
419000
420000
GPS Time (TOW, GMT zone)
Roll
Pitch


Height (m)
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
406000
Week 1881
407000
408000
409000
410000
411000
412000
413000
414000
415000
416000
417000
418000
419000
420000
GPS Time (TOW, GMT zone)
Height

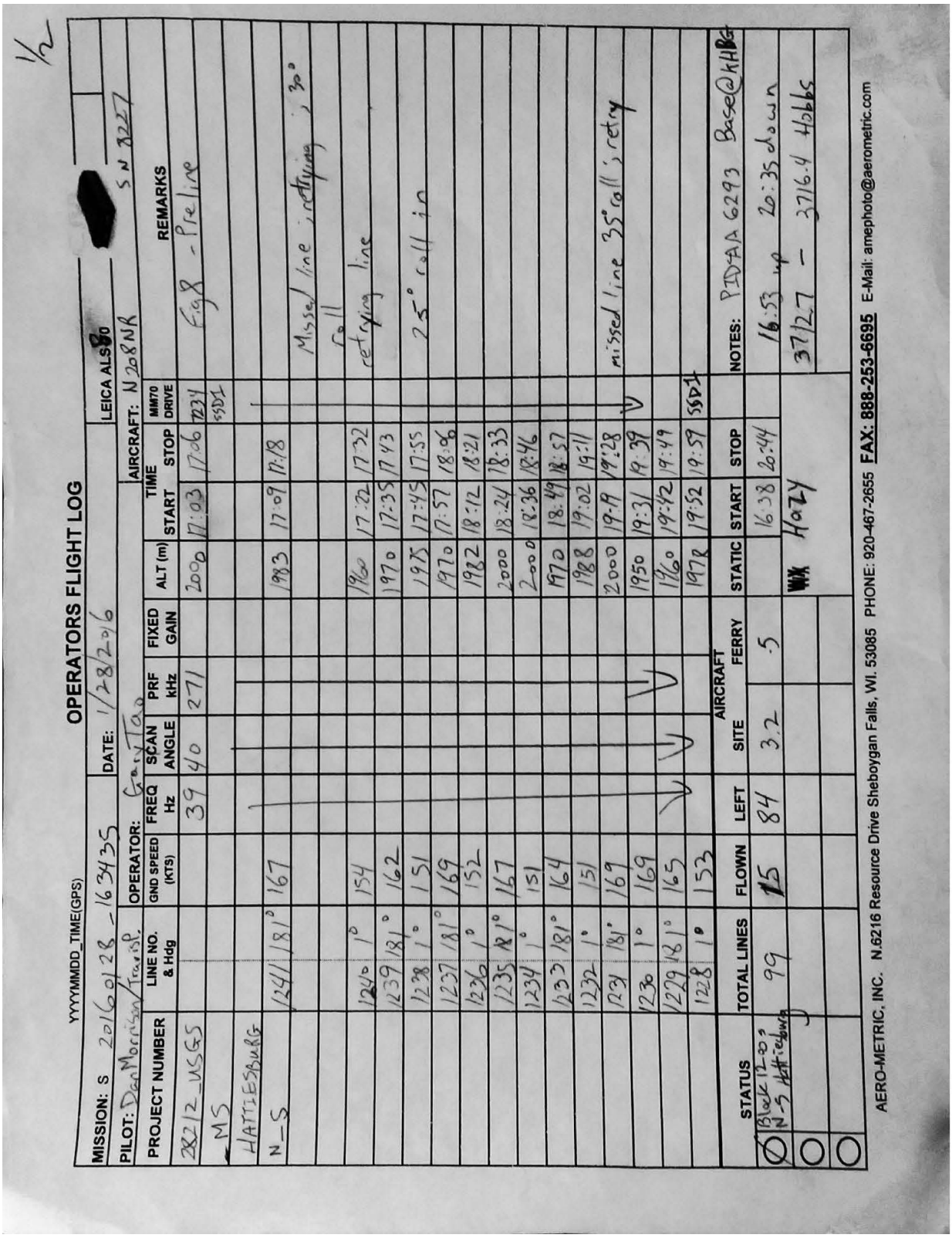

RMS (m)
0.046
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
406000
Week 1881
407000
408000
409000
410000
411000
412000
413000
414000
415000
416000
417000
418000
419000
420000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
-55
-60
-65
-70
-75
-80
-85
-90
-95
406000
Week 1881
407000
408000
409000
410000
411000
412000
413000
414000
415000
416000
417000
418000
419000
420000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
406000
Week 1881
407000
408000
409000
410000
411000
412000
413000
414000
415000
416000
417000
418000
419000
420000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
1: AA6293
Name:
AA6293
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\BYD2\20160128_163435\Base
Coordinates
Latitude:
North
31
16
15.89598
Compute from PPP
Longitude:
West
89
15
36.50460
Enter Grid Values
Ellipsoidal height:
18.557
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM55971.00
View STA File
Antenna profile:
TRM55971.00
Info
Measured height:
1.800
m
ARP to L1 offset:
0.067
m
Applied height:
1.867
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log



1/2

OPERATORS FLIGHT LOG

YYYYMMDD_TIME(GPS)

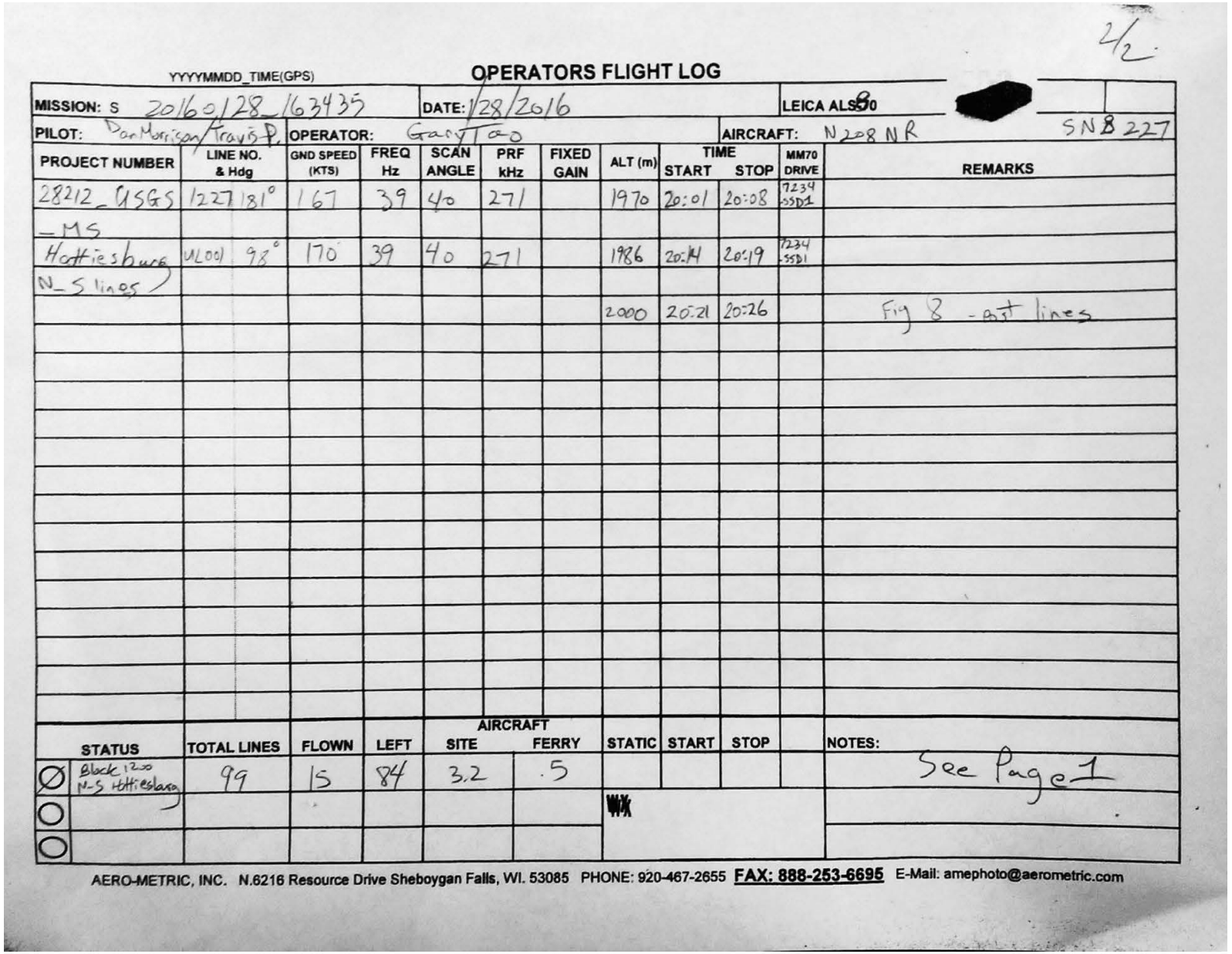
MISSION: S 20160128_163435 DATE: 1/28/2016 LEICA ALS80 SN 8227

PILOT: DanMorrison/TravisP. OPERATOR: Gavin T AIRCRAFT: N208NR

PROJECT NUMBER	LINE NO. & Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	ALT (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS
2212_USGS			39	40	271		2000	17:03	17:06	7234	Fig8 - Pre Line
MS										5501	
HATTIESBURG											
N_S	124° 181°	167					1983	17:09	17:18		
	124°	154					1960	17:22	17:32		Missed line ; retying ; 30°
	139 181°	162					1970	17:35	17:43		roll
	128 1°	151					1975	17:45	17:55		retying line
	1237 181°	169					1970	17:57	18:06		
	1236 1°	152					1982	18:12	18:21		25° roll in
	1235 181°	167					2000	18:24	18:33		
	1234 1°	151					2000	18:36	18:46		
	1233 181°	164					1970	18:49	18:57		
	1232 1°	151					1988	19:02	19:11		
	123 181°	169					2000	19:19	19:28		missed line 35° roll ; retry
	1230 1°	169					1950	19:31	19:39		
	1229 181°	165					1960	19:42	19:49		
	1228 1°	153					1978	19:52	19:59	5501	

STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	NOTES: PIDAA 6293 Base@KHBG
Block 12-03 N-S Hattiesburg	99	15	84	3.2	.5		16:38	20:44	16:53 up 20:35 down
						WX Hazy			37/27 - 3716.4 Hobbs

AERO-METRIC, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@aerometric.com



2/2

YYYYMMDD_TIME(GPS)

OPERATORS FLIGHT LOG

MISSION: S 20160128_163435 DATE: 1/28/2016 LEICA ALS80 [redacted] SN8227

PILOT: DanMorrison/TravisP. OPERATOR: GaryTao AIRCRAFT: N208NR

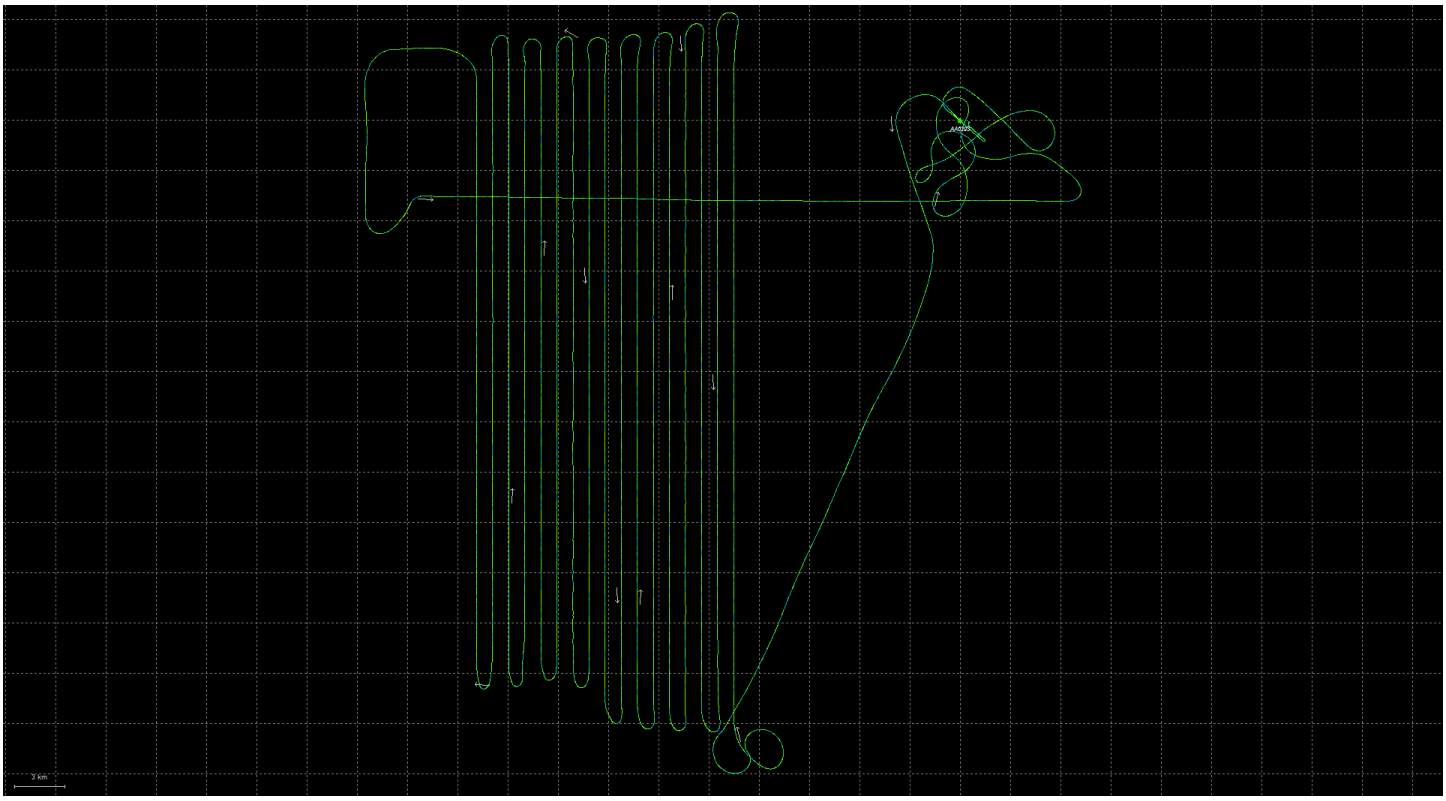
PROJECT NUMBER	LINE NO. & Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	ALT (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS
28212_USGS	1227 181°	167	39	40	271		1970	20:01	20:08	7234 -SSD1	
_MS											
Hattiesburg	UL001 98°	170	39	40	271		1986	20:14	20:19	7234 -SSD1	
N-S lines)											
							2000	20:21	20:26		Fig 8 - alt lines

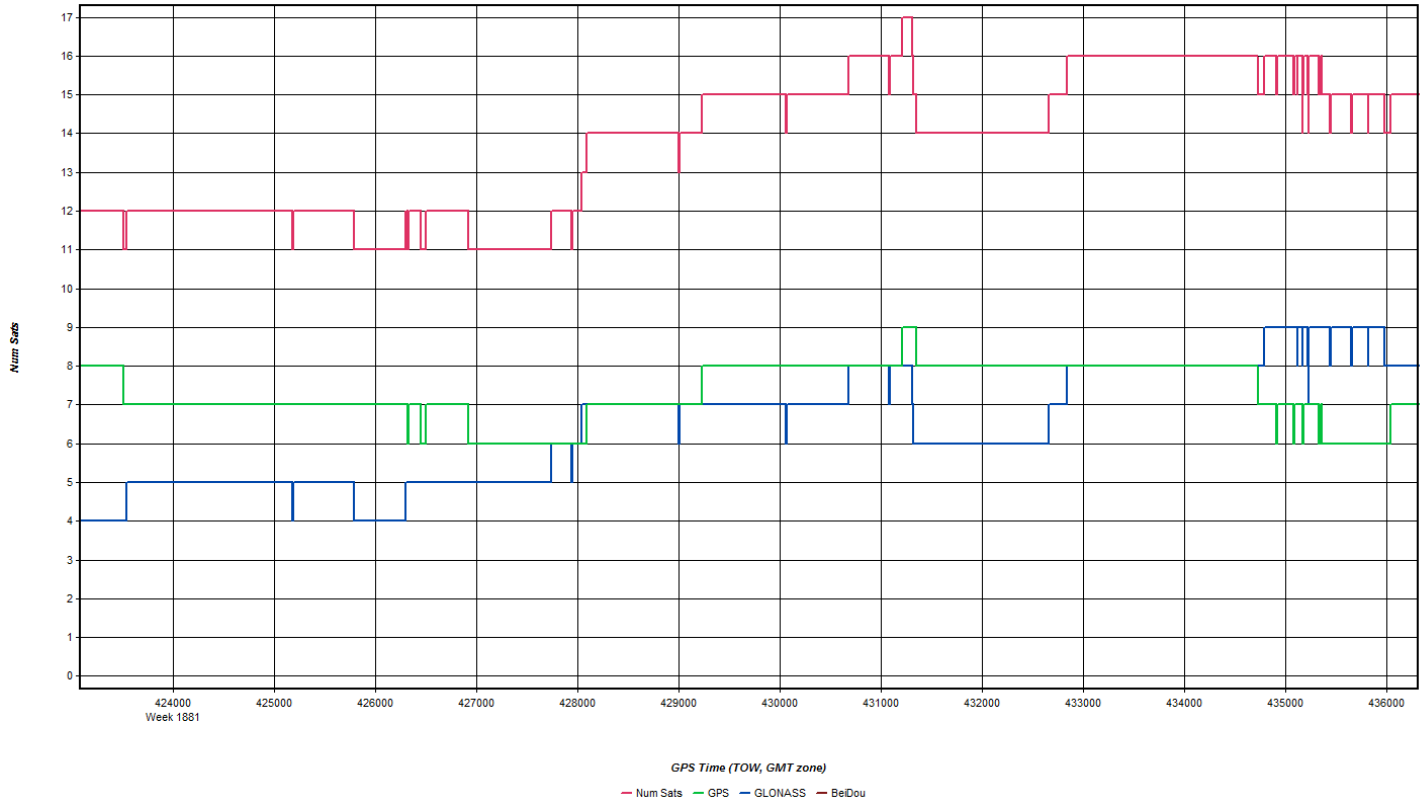
STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP		NOTES:
∅ Block 1200 N-S Hattiesburg	99	15	84	3.2	.5					See Page 1
○						WX				
○										

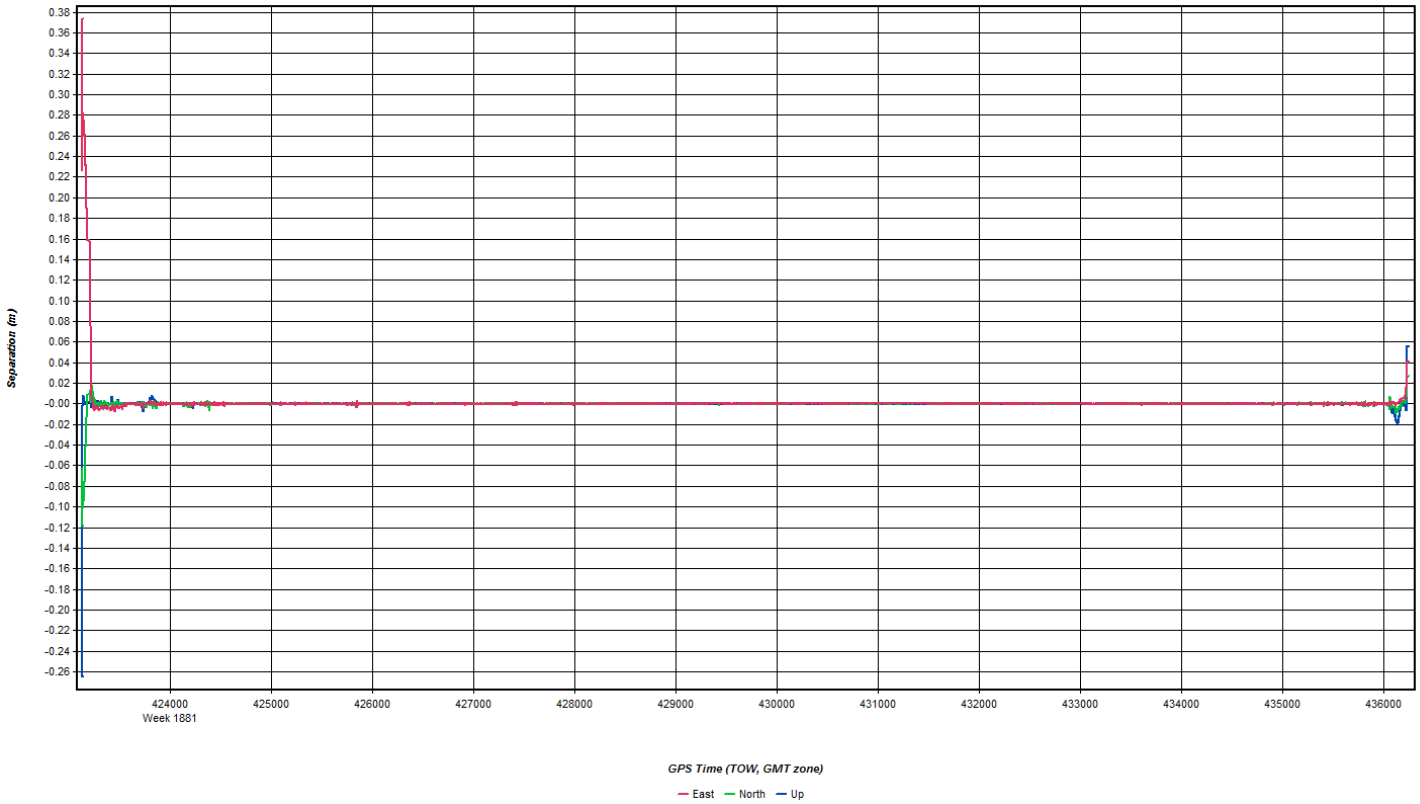
AERO-METRIC, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@aerometric.com

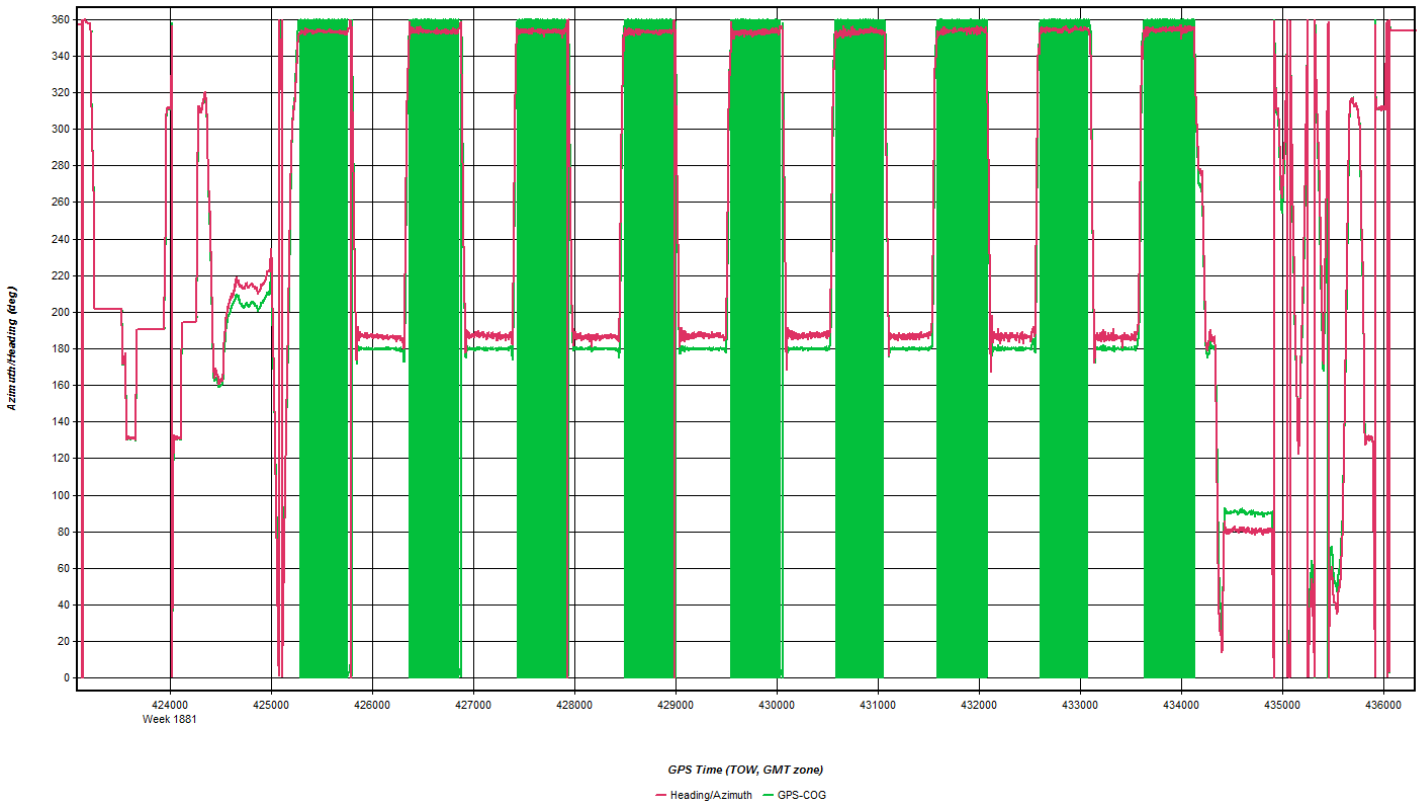
South AOI - State Plane MS East

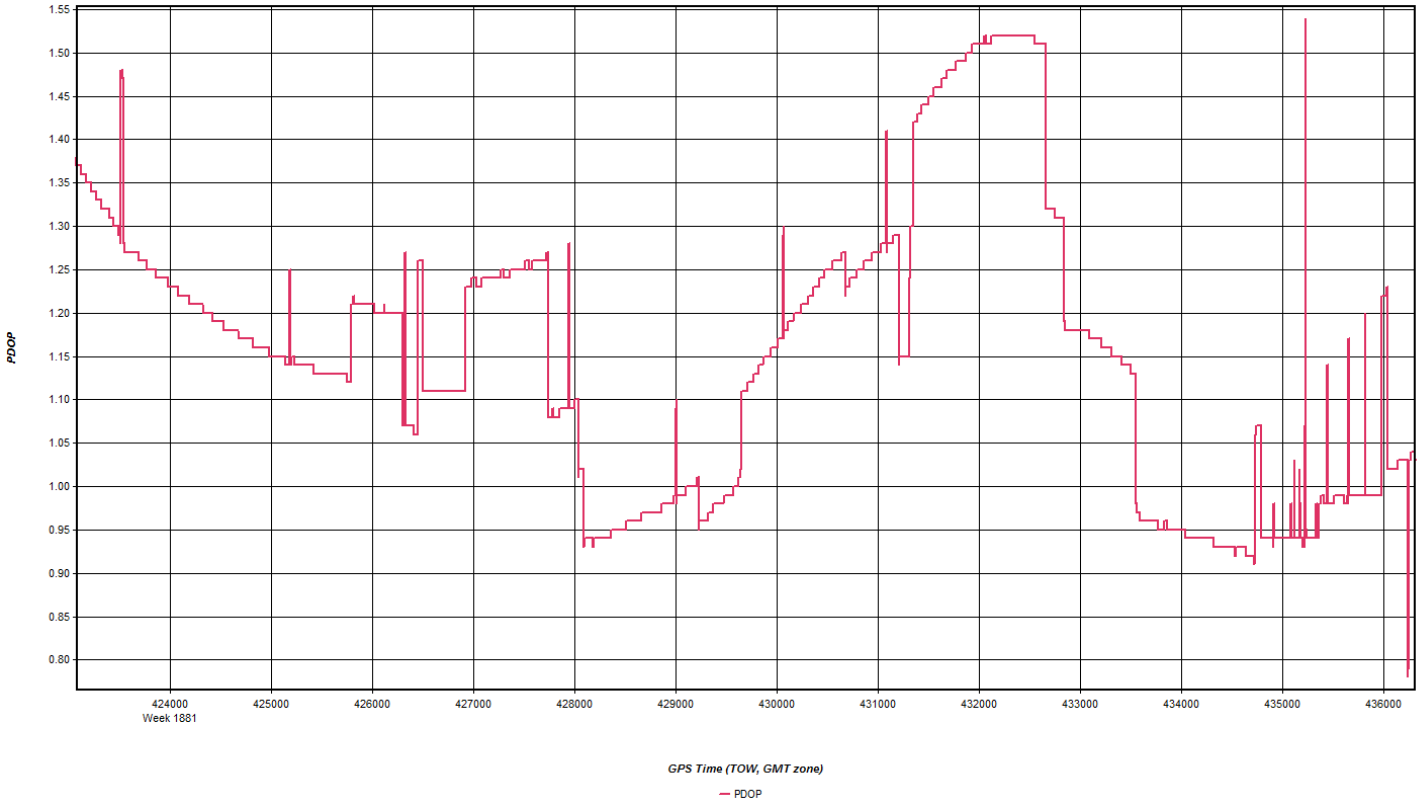
Jan 28, 2016-B (N208NR, SN8227)

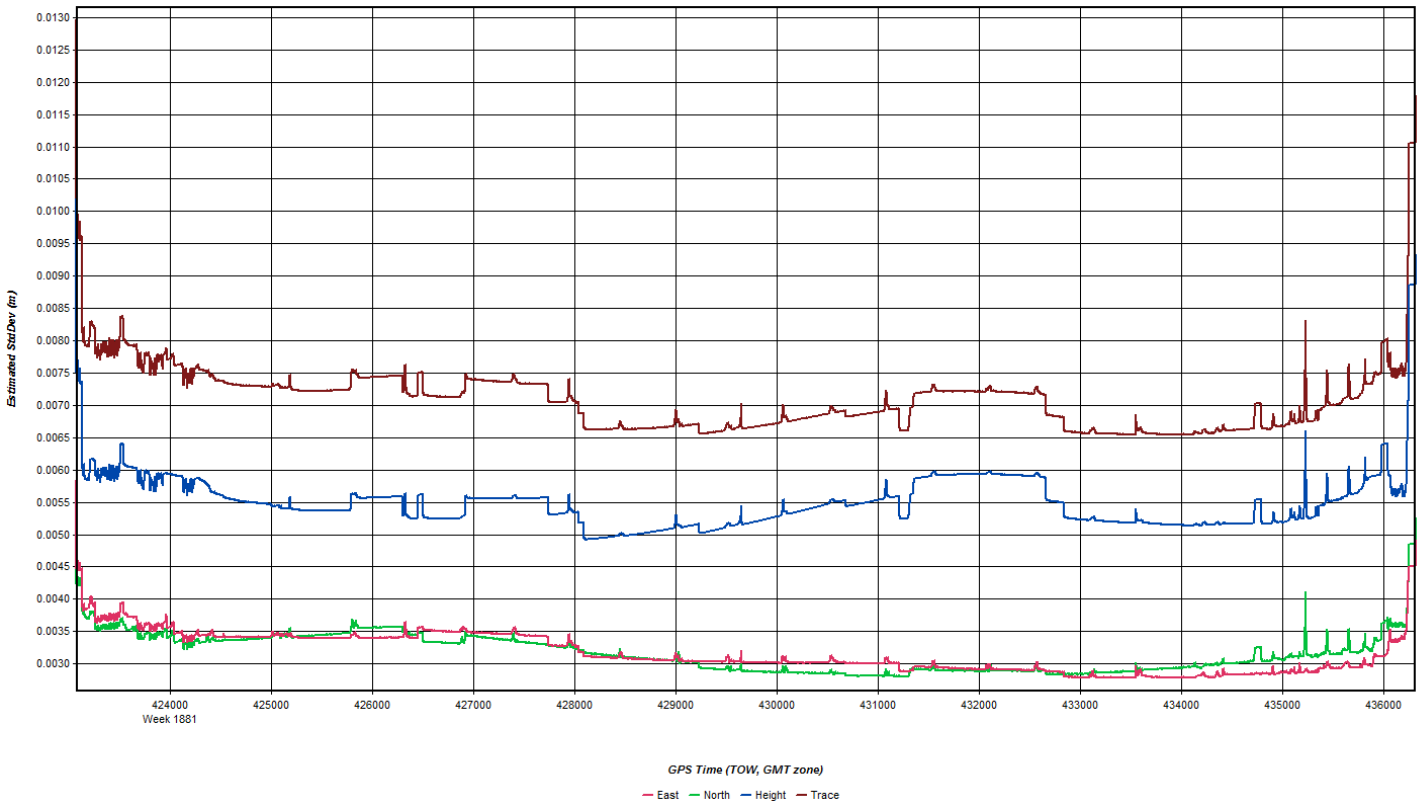



Num Sats
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
424000
Week 1881
425000
426000
427000
428000
429000
430000
431000
432000
433000
434000
435000
436000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

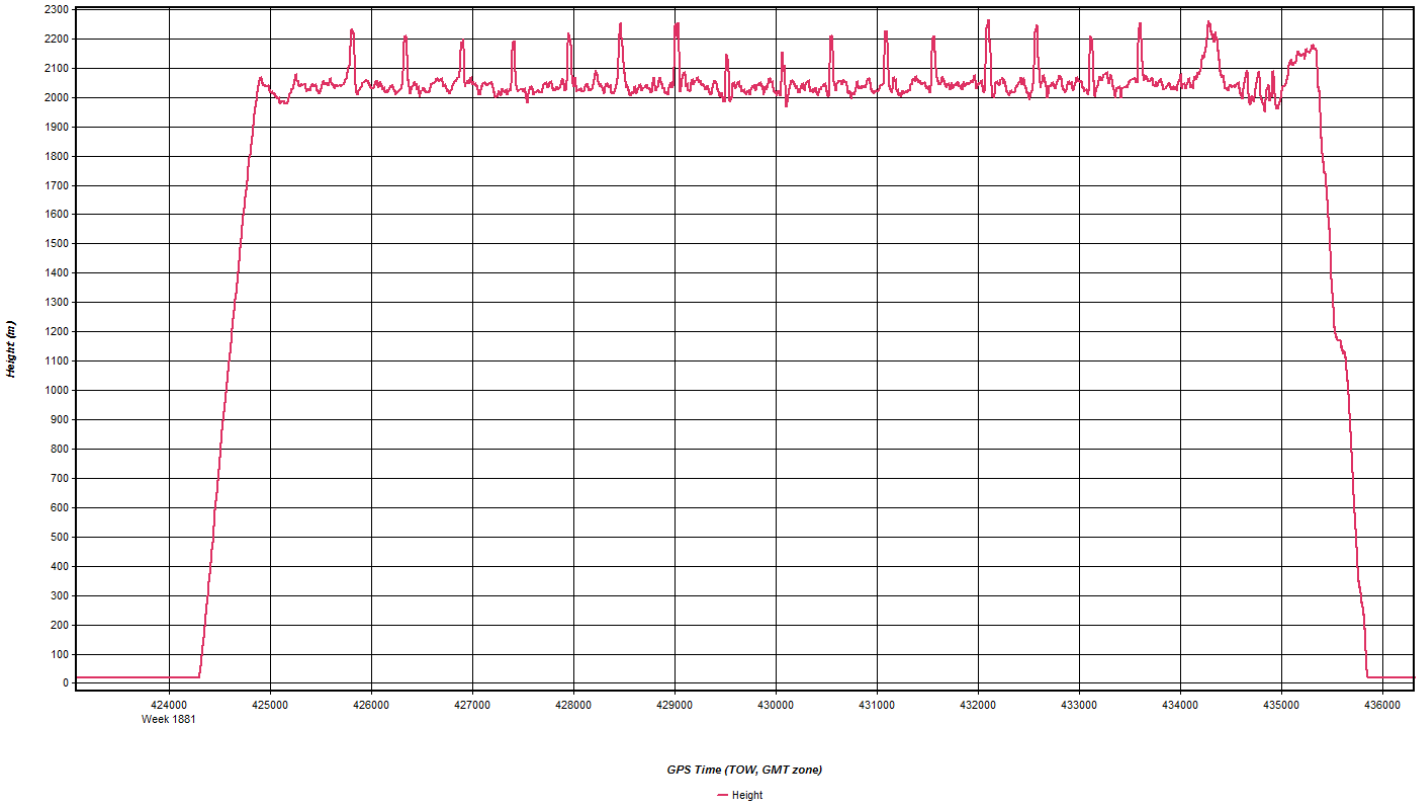

Separation (m)
0.38
0.36
0.34
0.32
0.30
0.28
0.26
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
-0.10
-0.12
-0.14
-0.16
-0.18
-0.20
-0.22
-0.24
-0.26
424000
Week 1881
425000
426000
427000
428000
429000
430000
431000
432000
433000
434000
435000
436000
GPS Time (TOW, GMT zone)
East
North
Up


Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
424000
Week 1881
425000
426000
427000
428000
429000
430000
431000
432000
433000
434000
435000
436000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

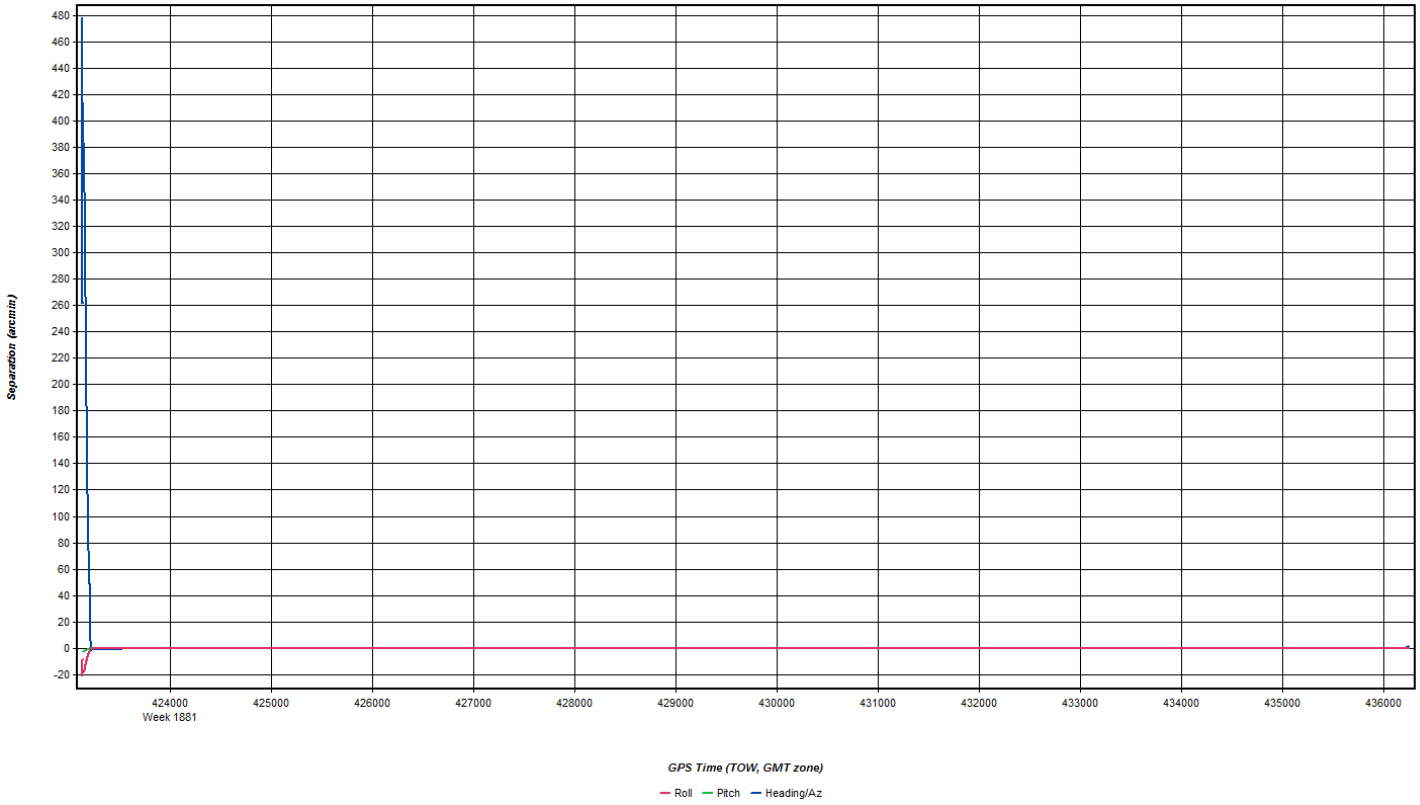

PDOP
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
0.95
0.90
0.85
0.80
424000
Week 1881
425000
426000
427000
428000
429000
430000
431000
432000
433000
434000
435000
436000
GPS Time (TOW, GMT zone)
PDOP

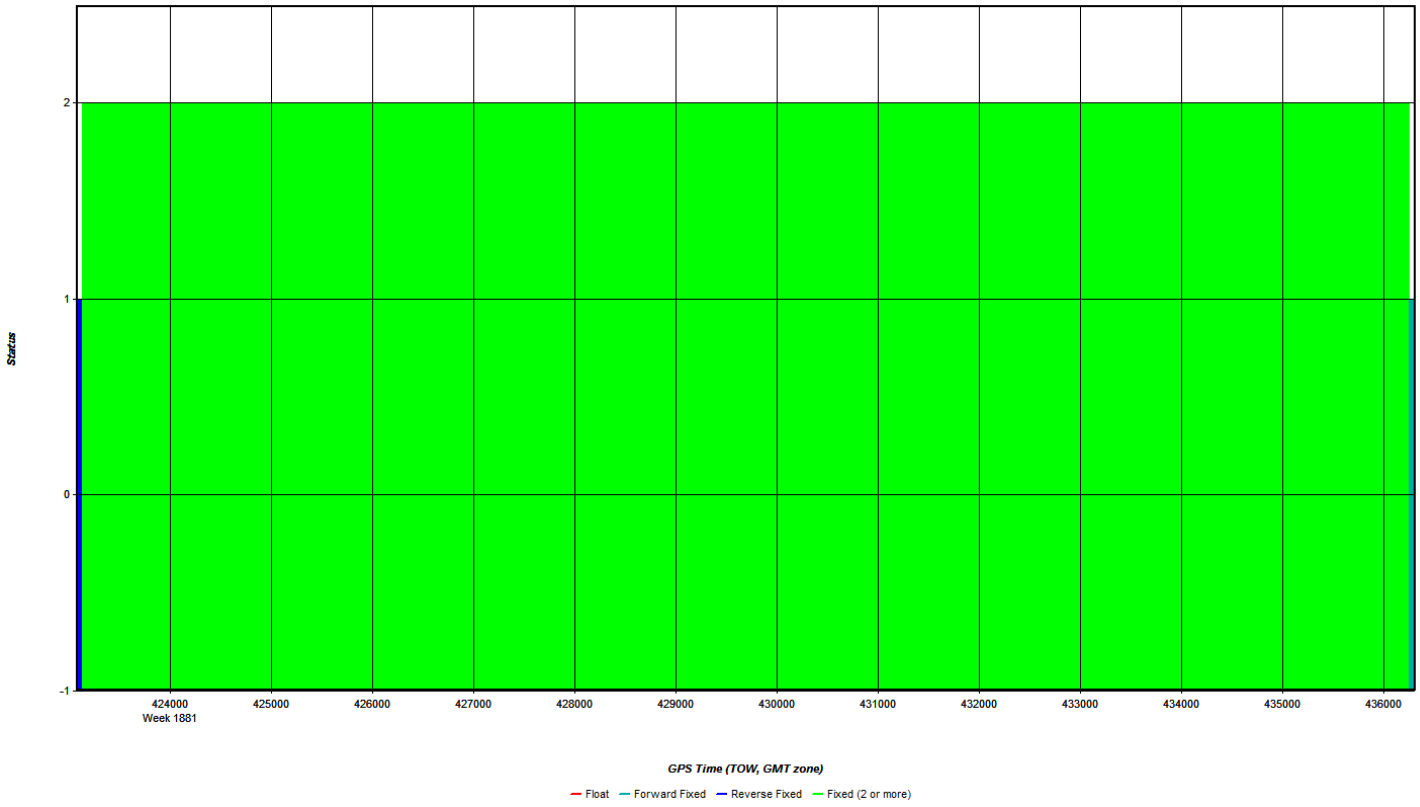

Estimated StdDev (m)
0.0130
0.0125
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
424000
Week 1881
425000
426000
427000
428000
429000
430000
431000
432000
433000
434000
435000
436000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

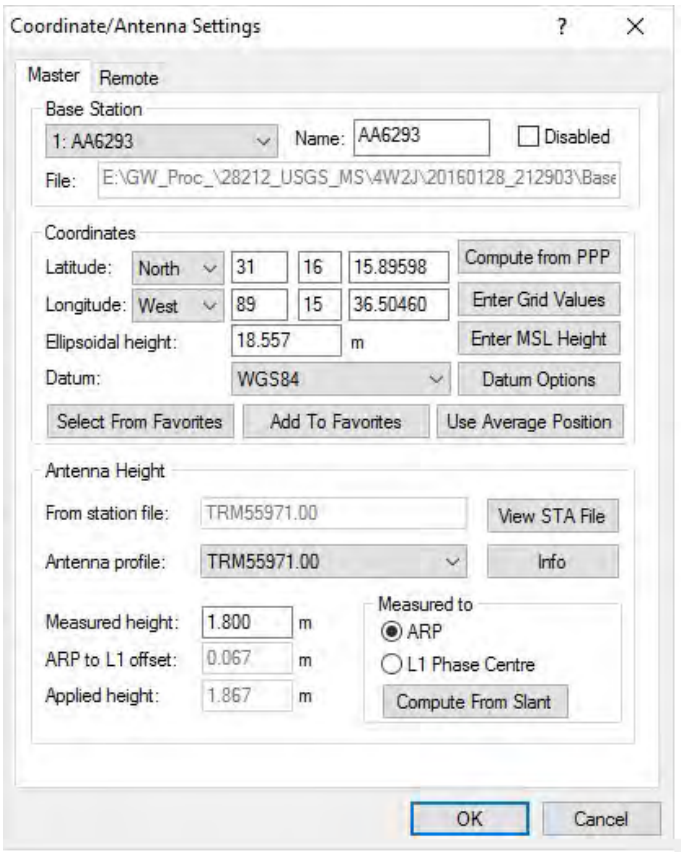

Roll & pitch (deg)
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
424000
Week 1881
425000
426000
427000
428000
429000
430000
431000
432000
433000
434000
435000
436000
GPS Time (TOW, GMT zone)
Roll
Pitch


Height (m)
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
424000
Week 1881
425000
426000
427000
428000
429000
430000
431000
432000
433000
434000
435000
436000
GPS Time (TOW, GMT zone)
Height

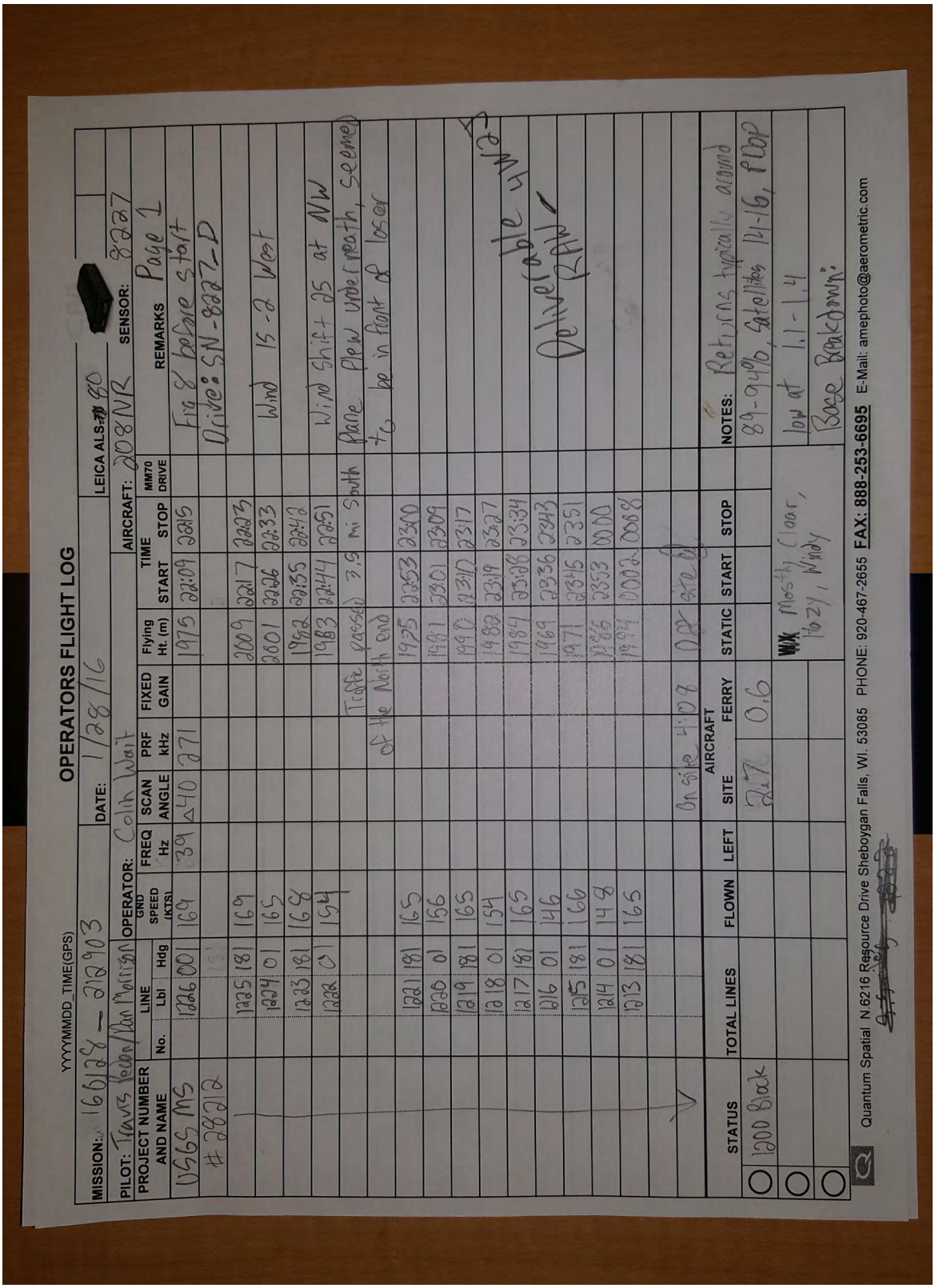

RMS (m)
0.046
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
424000
Week 1881
425000
426000
427000
428000
429000
430000
431000
432000
433000
434000
435000
436000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
480
460
440
420
400
380
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
-20
424000
Week 1881
425000
426000
427000
428000
429000
430000
431000
432000
433000
434000
435000
436000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
424000
Week 1881
425000
426000
427000
428000
429000
430000
431000
432000
433000
434000
435000
436000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
1: AA6293
Name:
AA6293
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\4W2J\20160128_212903\Base
Coordinates
Latitude:
North
31
16
15.89598
Compute from PPP
Longitude:
West
89
15
36.50460
Enter Grid Values
Ellipsoidal height:
18.557
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM55971.00
View STA File
Antenna profile:
TRM55971.00
Info
Measured height:
1.800
m
ARP to L1 offset:
0.067
m
Applied height:
1.867
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log



OPERATORS FLIGHT LOG

YYYYMMDD_TIME(GPS)

MISSION: 160128 – 210903 DATE: 1/28/16 LEICA ALS-80

PILOT: Travis Heber/Dan Morrison OPERATOR: Colin Wait AIRCRAFT: 208NR SENSOR: 8207

PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS
USGS MS #28212		1226	001	164	39	40	271		1975	22:09	2215		Fix & begin start Drive: SN-8207-D
	1	1225	181	169					2009	2217	2223		
	1	1224	01	165					2001	2226	2233		Wind 15-2 West
	1	1223	181	168					1962	2235	2242		
	1	1222	01	164					1983	2244	2251		Wind shift 25 at NW
								Tight	passed	3.9	mi South		Plane flew underneath, seemed to be in front of laser
								of the North end					
		1221	181	165					1975	2253	2300		
		1220	01	166					1991	2301	2309		
		1219	181	165					1990	2310	2317		
		1218	01	164					1980	2319	2327		
		1217	181	165					1984	2328	2334		Delayed due to NW
		1216	01	146					1969	2336	2343		Delayed 2PM
		1215	181	166					1971	2345	2351		
		1214	01	148					1985	2353	0000		
		1213	181	165					1994	0002	0008		
								On site 4:07		OFF site 0			

STATUS	TOTAL LINES	FLOWN	LEFT
○ 1200 Back			
○			
○			

AIRCRAFT: SITE 27 FERRY 0.6

STATIC: WX Mostly Clear, Hazy, Windy

NOTES: Returns typically around 89-94%, Stations 111-16, Flop low at 1.1-1.4

Base Breakdown:

Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@aerometric.com

YYYYMMDD_TIME(GPS)

OPERATORS FLIGHT LOG

MISSION: 160128_212903 (continued) DATE: 1/28/16 LEICA ALS 80

PILOT: Travis Roberson OPERATOR: Colin Lubit AIRCRAFT: 208 NR SENSOR: 8727

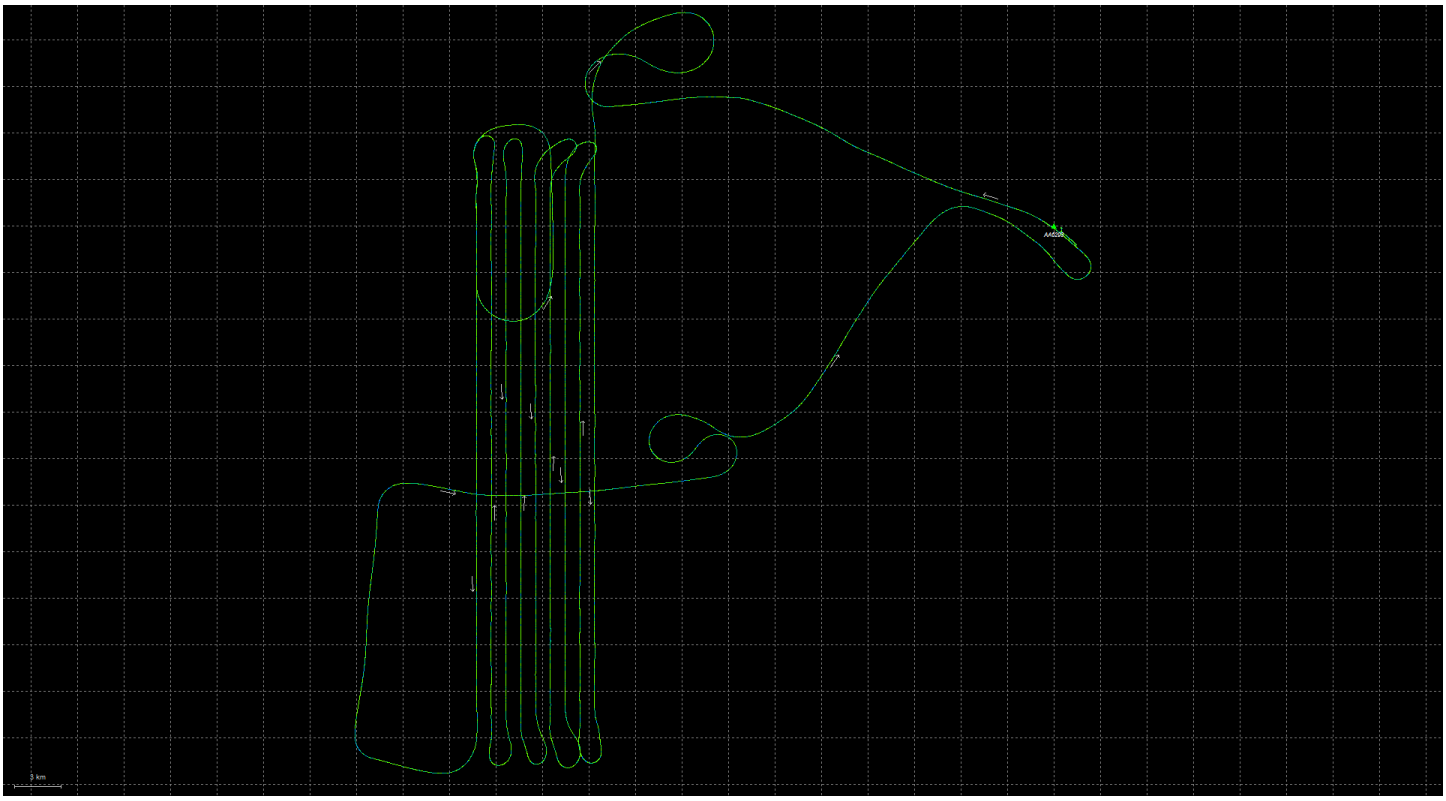
PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS
USGS MS		212	01	140	39	340	271		1983	0010	0017		Pine Drive: SN_8727_D
# 28812		211	181	145					1977	0019	0025		
		210	01	142					1972	0027	0035		
		ULOW	92	158					1963	0040	0048		Crossline
													Fig 8 to Amish

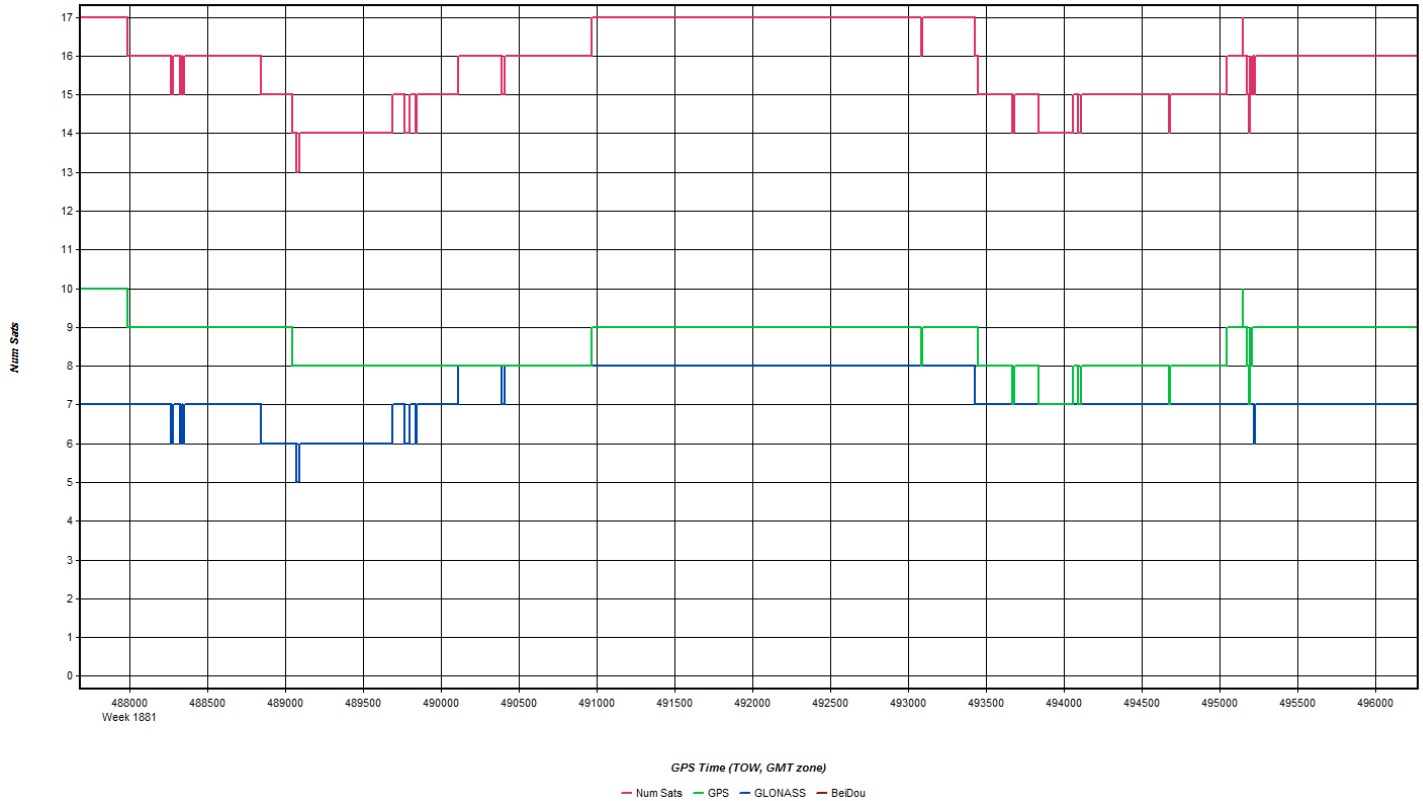
STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	NOTES:
○ 1200 Block									See Page 1
○						WX	Mostly Clear Hazy, Windy		
○									

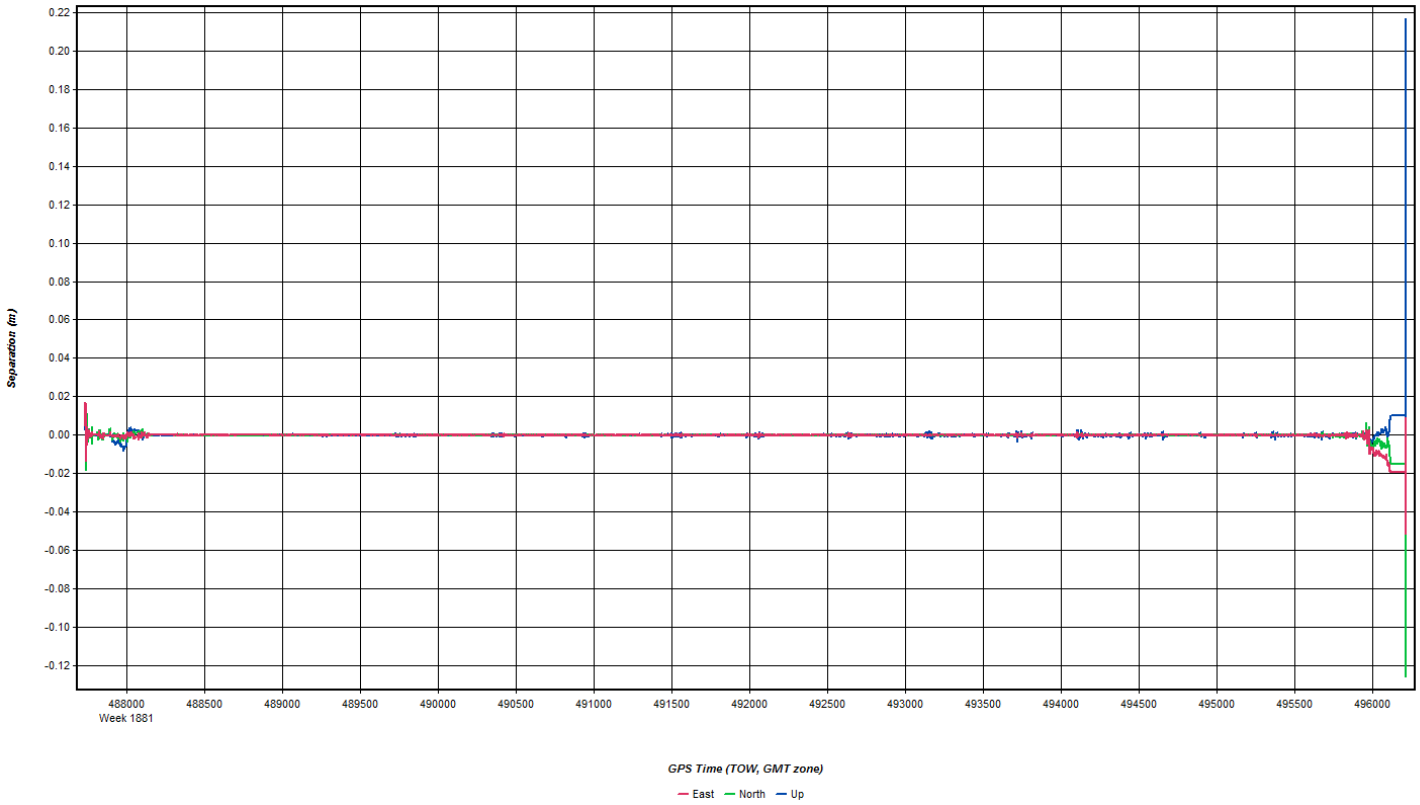
Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@aerometric.com

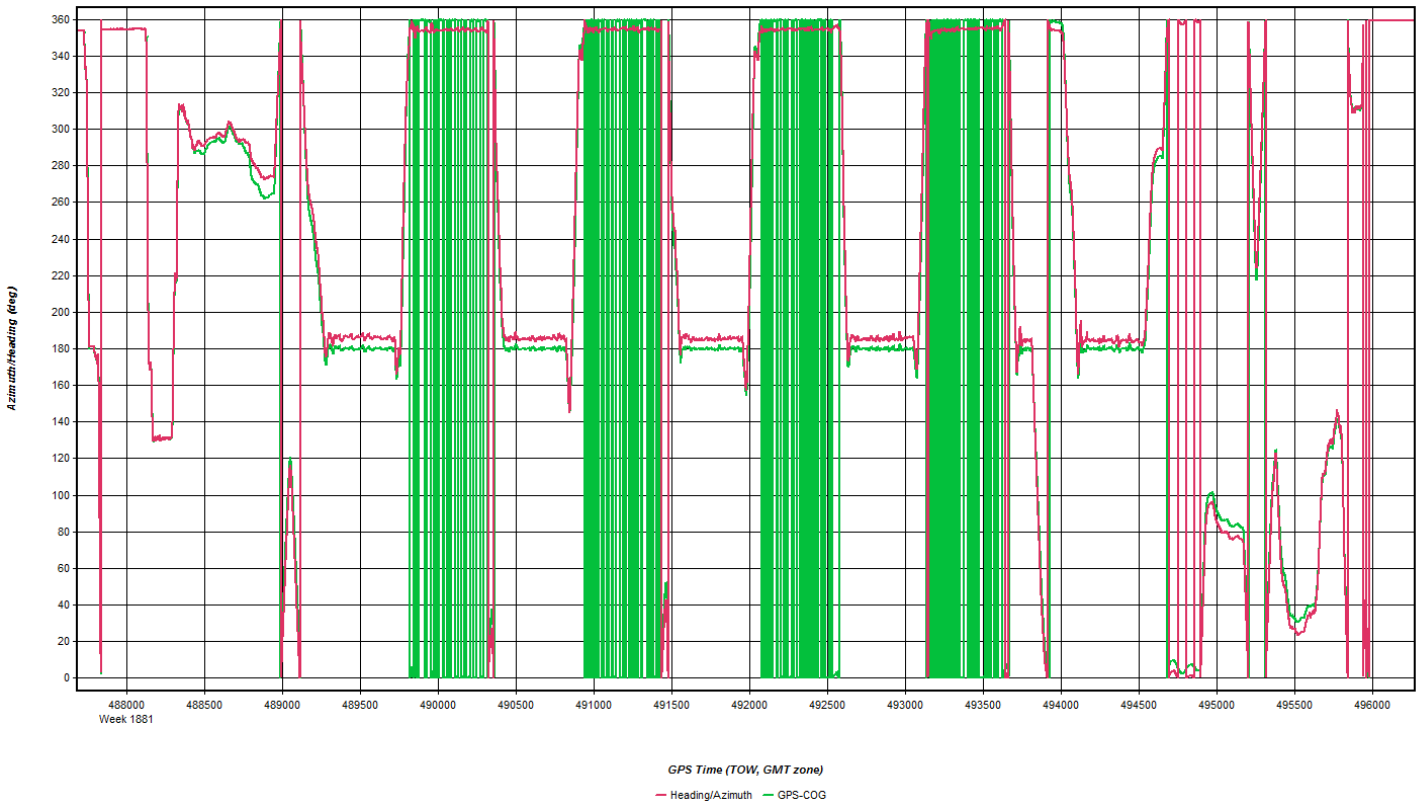
South AOI - State Plane MS East

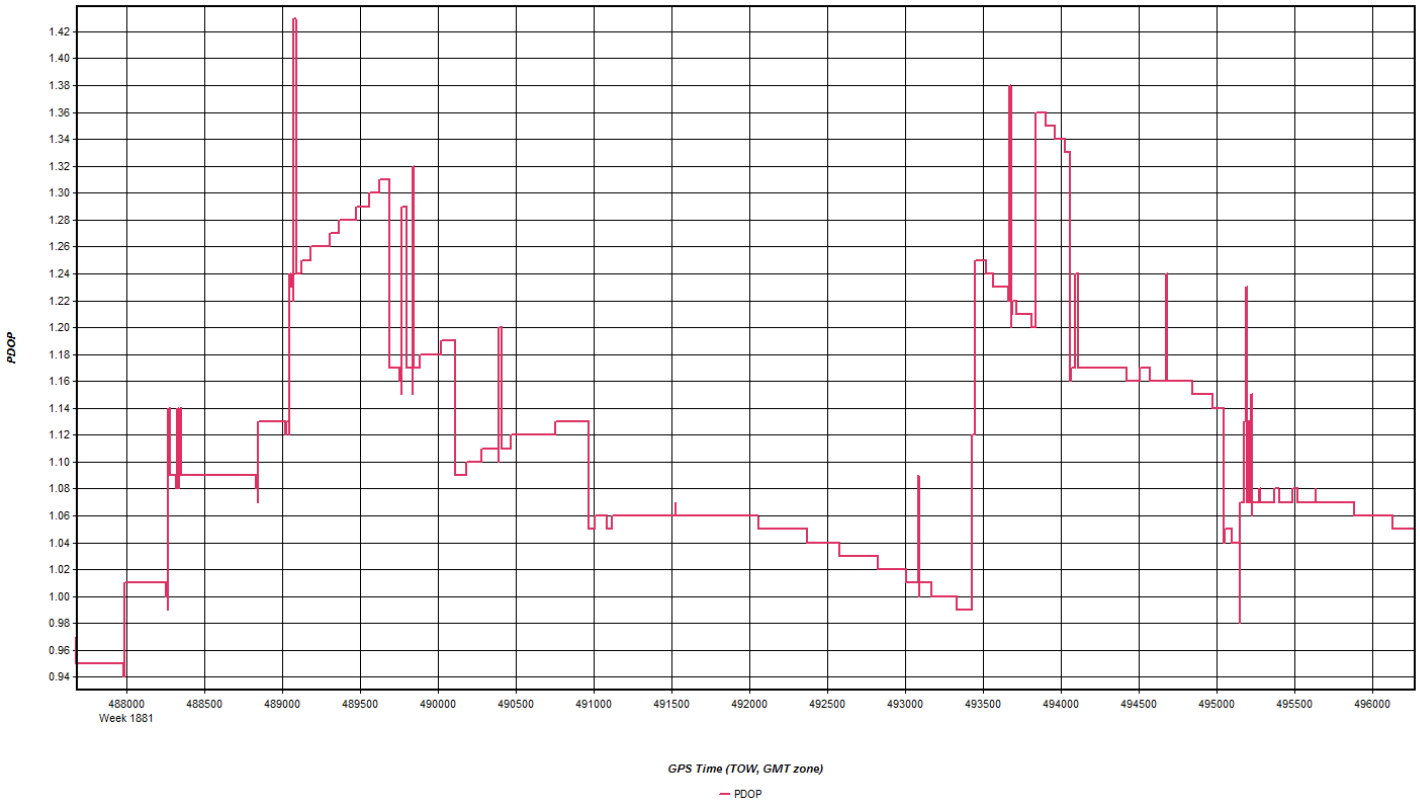
Jan 29, 2016-A (N208NR, SN8227)

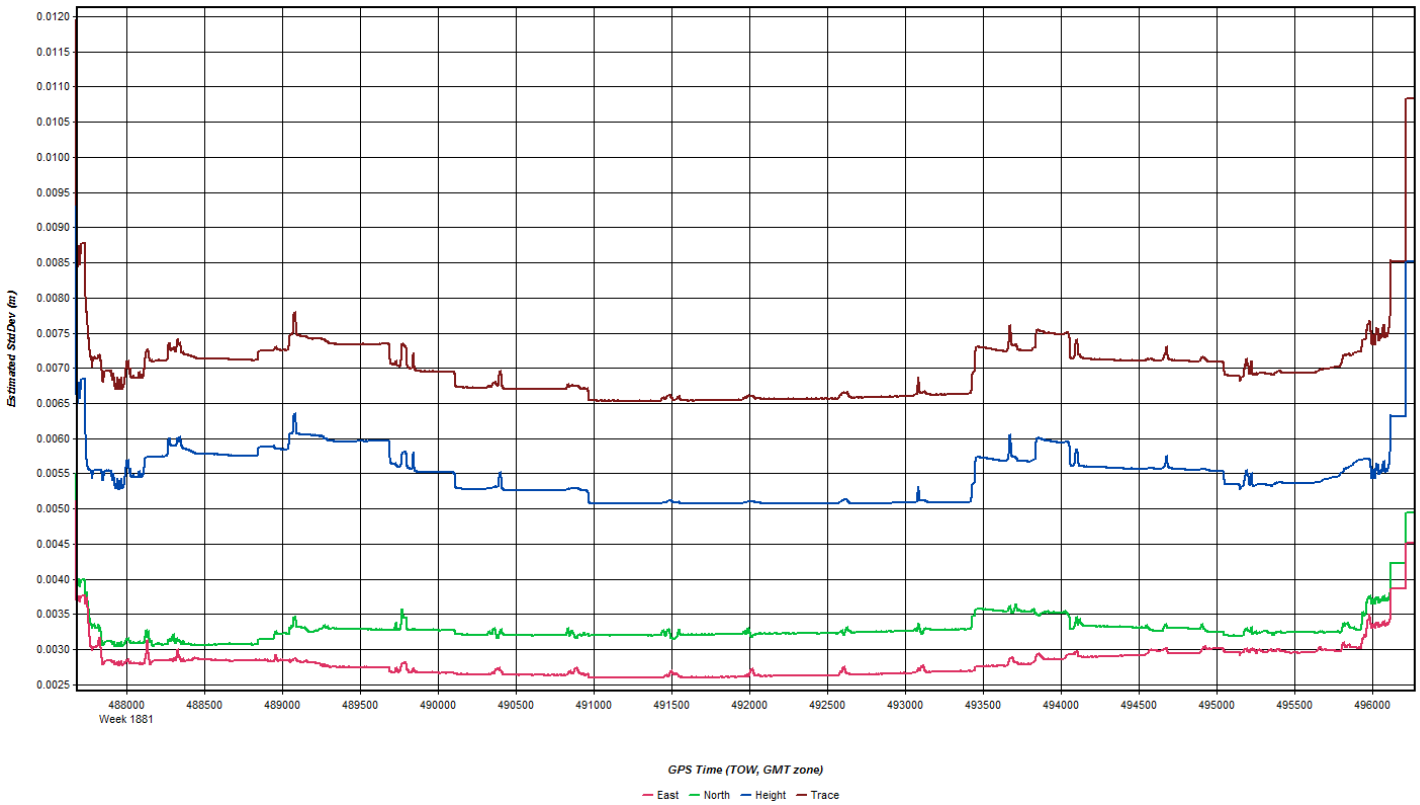



Num Sats
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
488000
Week 1881
488500
489000
489500
490000
490500
491000
491500
492000
492500
493000
493500
494000
494500
495000
495500
496000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

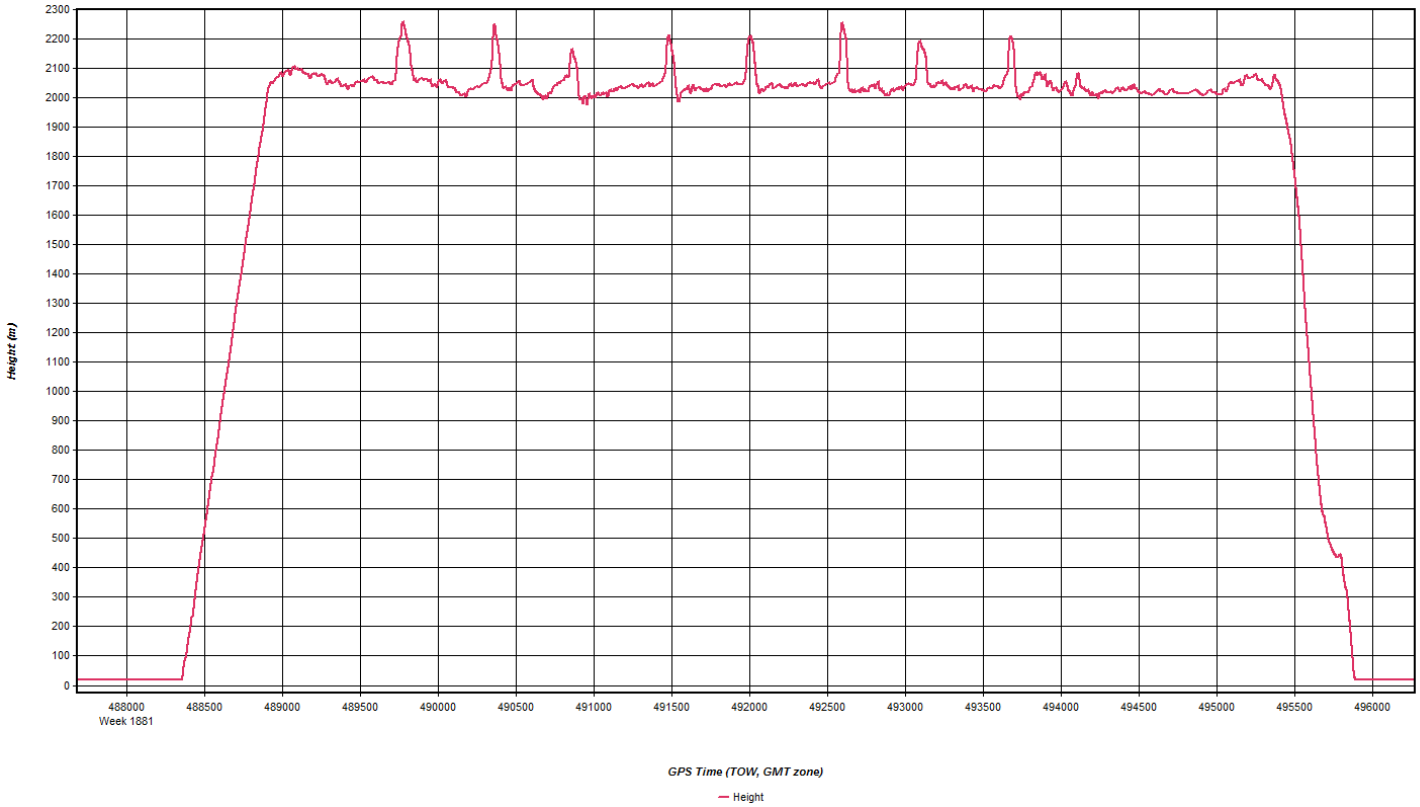

Separation (m)
0.22
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
-0.10
-0.12
488000
Week 1881
488500
489000
489500
490000
490500
491000
491500
492000
492500
493000
493500
494000
494500
495000
495500
496000
GPS Time (TOW, GMT zone)
East
North
Up

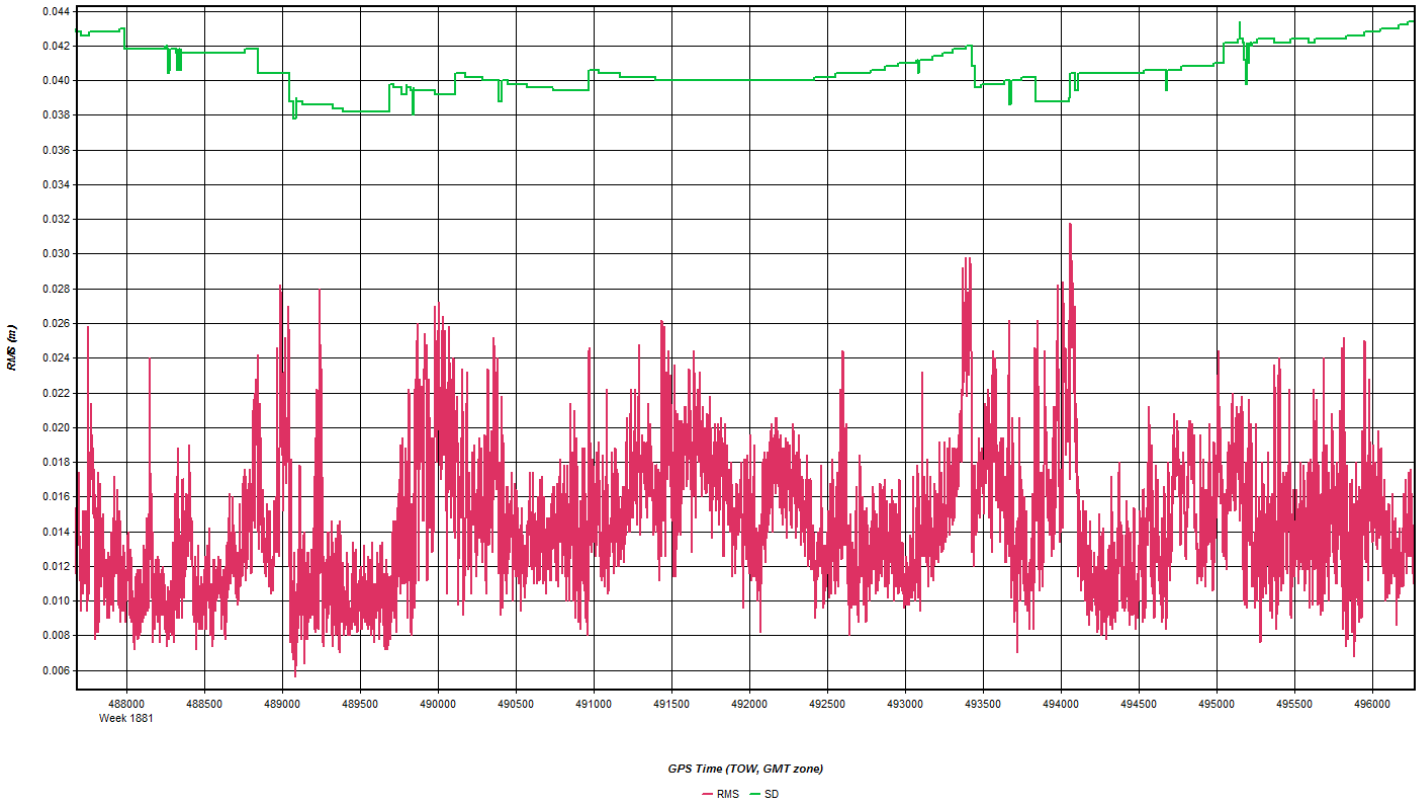

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
488000
Week 1881
488500
489000
489500
490000
490500
491000
491500
492000
492500
493000
493500
494000
494500
495000
495500
496000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

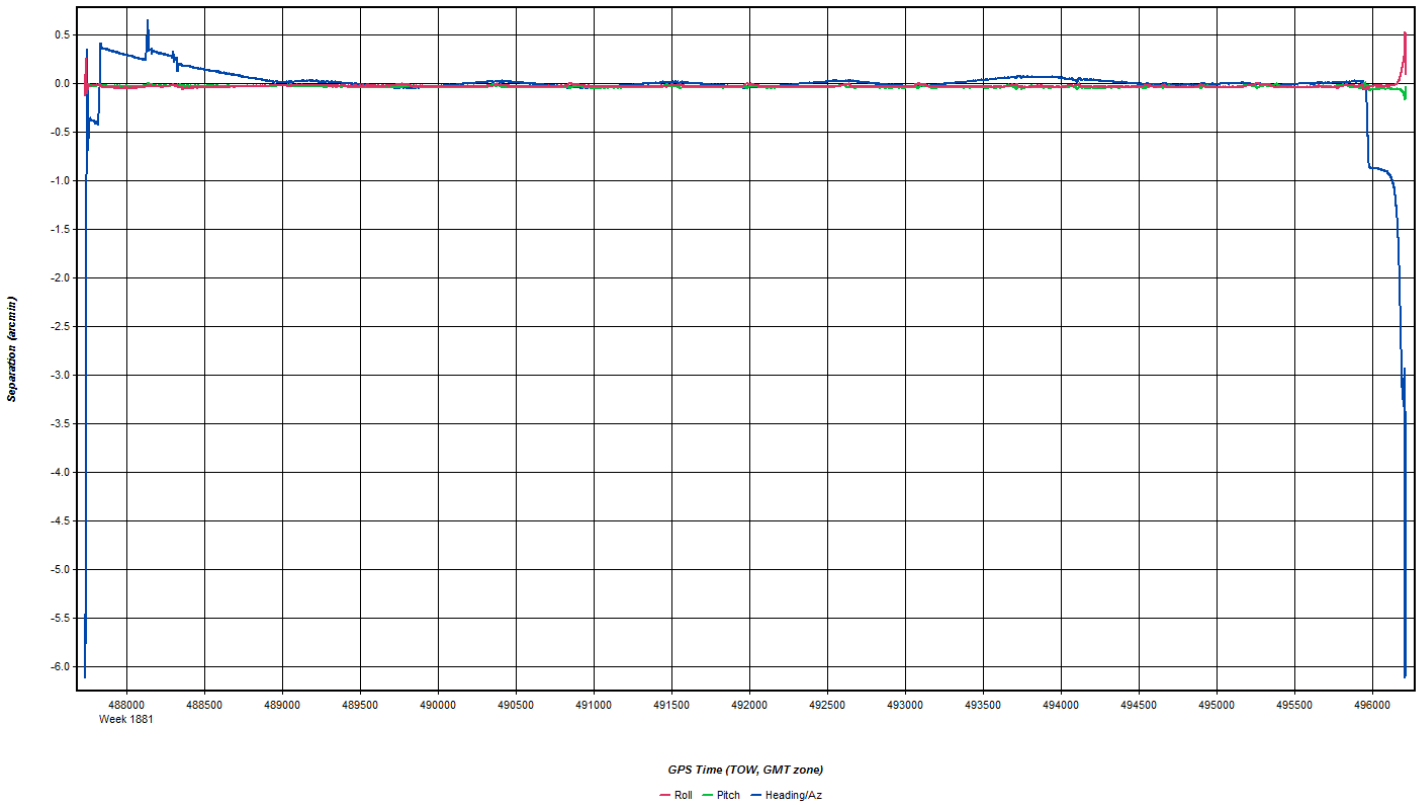

PDOP
1.42
1.40
1.38
1.36
1.34
1.32
1.30
1.28
1.26
1.24
1.22
1.20
1.18
1.16
1.14
1.12
1.10
1.08
1.06
1.04
1.02
1.00
0.98
0.96
0.94
488000
Week 1881
488500
489000
489500
490000
490500
491000
491500
492000
492500
493000
493500
494000
494500
495000
495500
496000
GPS Time (TOW, GMT zone)
PDOP

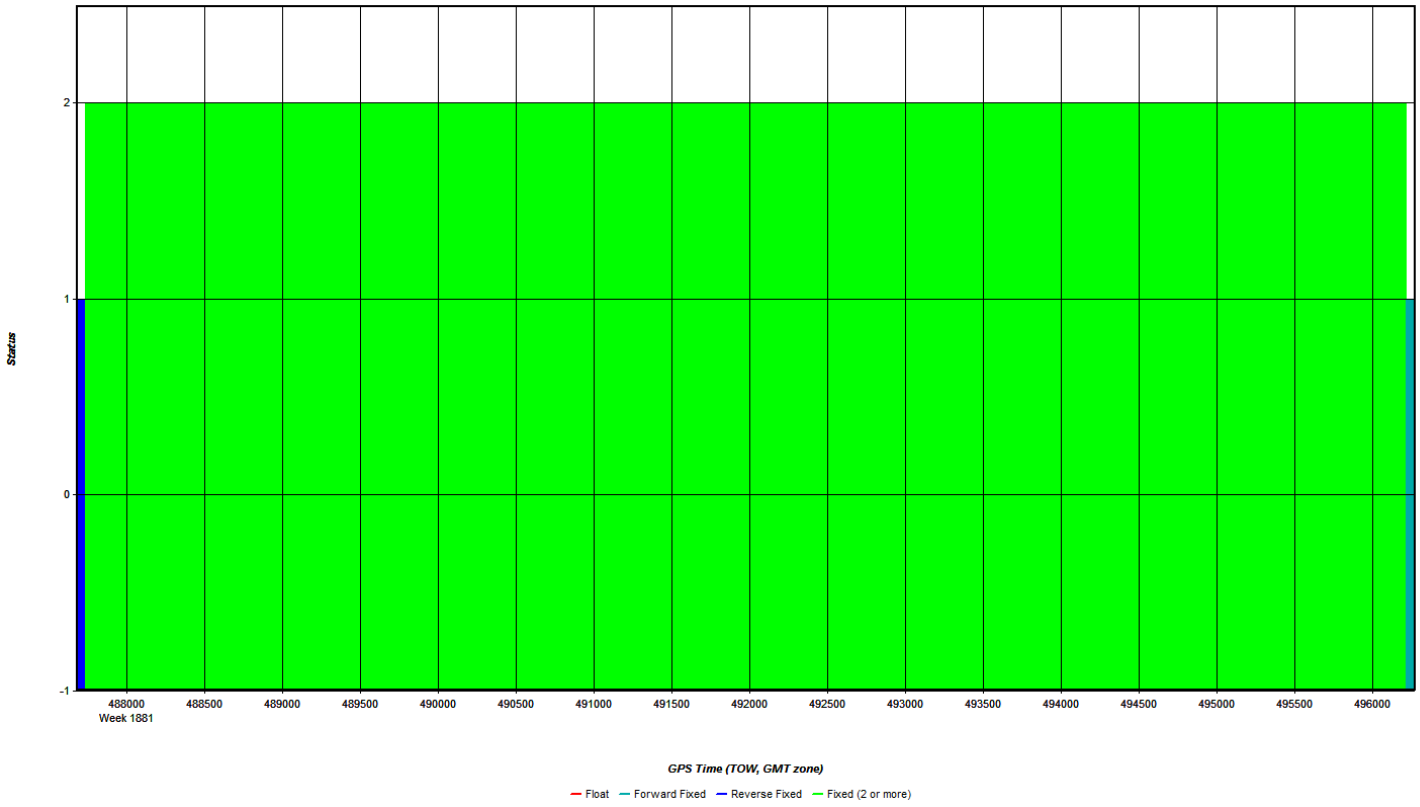

Estimated StdDev (m)
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
0.0025
488000
Week 1881
488500
489000
489500
490000
490500
491000
491500
492000
492500
493000
493500
494000
494500
495000
495500
496000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

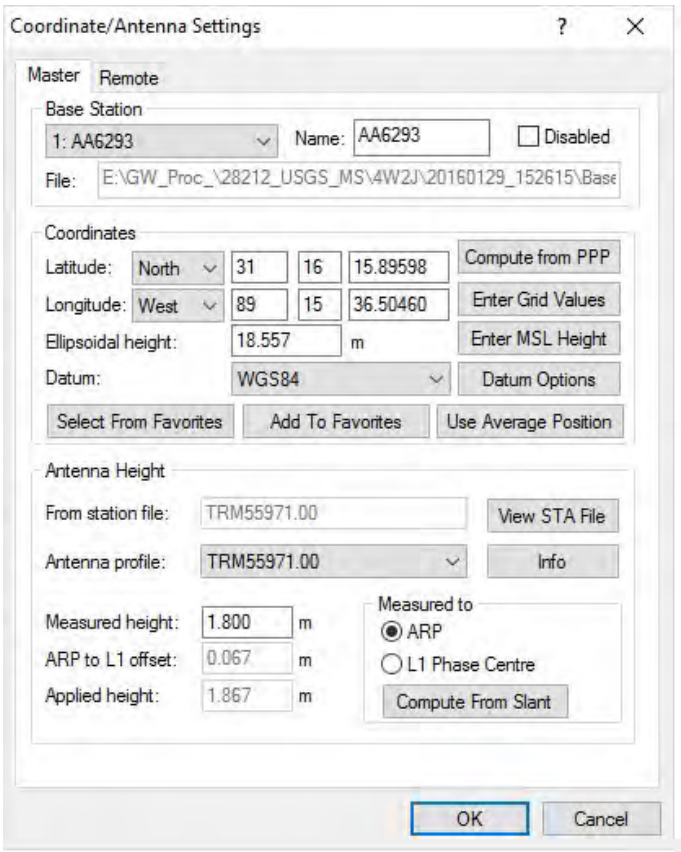

Roll & pitch (deg)
26
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
488000
Week 1881
488500
489000
489500
490000
490500
491000
491500
492000
492500
493000
493500
494000
494500
495000
495500
496000
GPS Time (TOW, GMT zone)
Roll
Pitch


Height (m)
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
488000
Week 1881
488500
489000
489500
490000
490500
491000
491500
492000
492500
493000
493500
494000
494500
495000
495500
496000
GPS Time (TOW, GMT zone)
Height

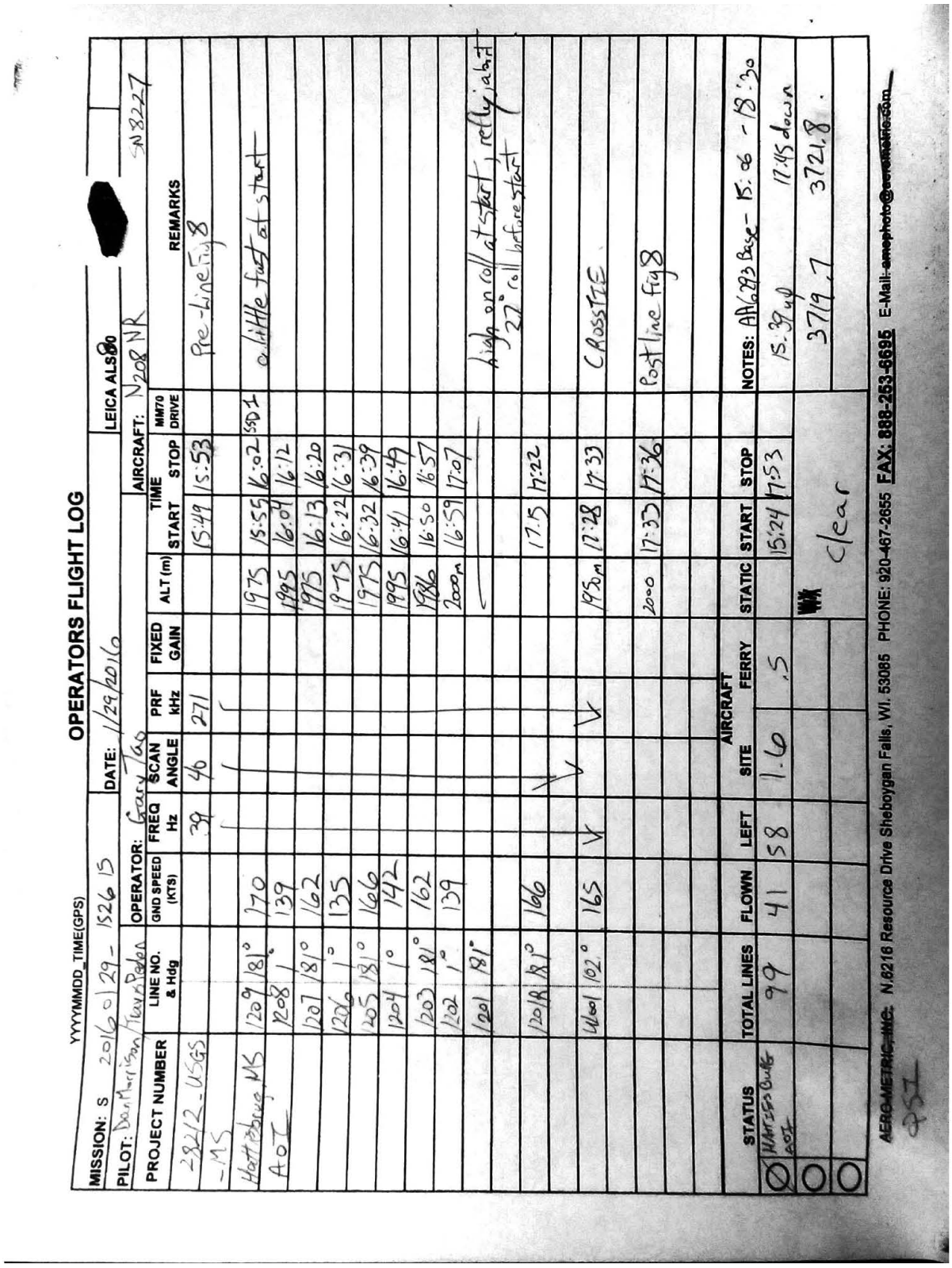

RMS (m)
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
488000
Week 1881
488500
489000
489500
490000
490500
491000
491500
492000
492500
493000
493500
494000
494500
495000
495500
496000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
0.5
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
-3.0
-3.5
-4.0
-4.5
-5.0
-5.5
-6.0
488000
Week 1881
488500
489000
489500
490000
490500
491000
491500
492000
492500
493000
493500
494000
494500
495000
495500
496000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
488000
Week 1881
488500
489000
489500
490000
490500
491000
491500
492000
492500
493000
493500
494000
494500
495000
495500
496000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
1: AA6293
Name:
AA6293
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\4W2J\20160129_152615\Base
Coordinates
Latitude:
North
31
16
15.89598
Compute from PPP
Longitude:
West
89
15
36.50460
Enter Grid Values
Ellipsoidal height:
18.557
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM55971.00
View STA File
Antenna profile:
TRM55971.00
Info
Measured height:
1.800
m
ARP to L1 offset:
0.067
m
Applied height:
1.867
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log



OPERATORS FLIGHT LOG

YYYYMMDD_TIME(GPS)

MISSION: S 20160129_1526 15 DATE: 1/29/2016 LEICA ALS80 [redacted]

PILOT: Dan Morrison/Tim Peden OPERATOR: Gary Tao AIRCRAFT: N208NR N8227

PROJECT NUMBER	LINE NO. & Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	ALT (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS
28212_USGS			39	46	271			15:49	15:53		Pre-line Fig 8
-MS											
Hot Springs MS	209 181°	170					1975	15:55	16:02	SD1	a little fast at start
AOI	208 1	139					1995	16:04	16:12		
	207 181°	162					1975	16:13	16:20		
	206 1°	135					1975	16:22	16:31		
	205 181°	166					1975	16:32	16:39		
	204 1°	142					1995	16:41	16:49		
	203 181°	162					1986	16:50	16:57		
	202 1°	139					2000	16:59	17:07		
	201 181°										high on roll at start, reflight 27° roll before start
								17:15	17:22		
	201R 181°	166									
	1001 182°	165					1950	17:28	17:33		CROSSTIE
							2000	17:35	17:36		Post line fig 8

AIRCRAFT: SITE / FERRY

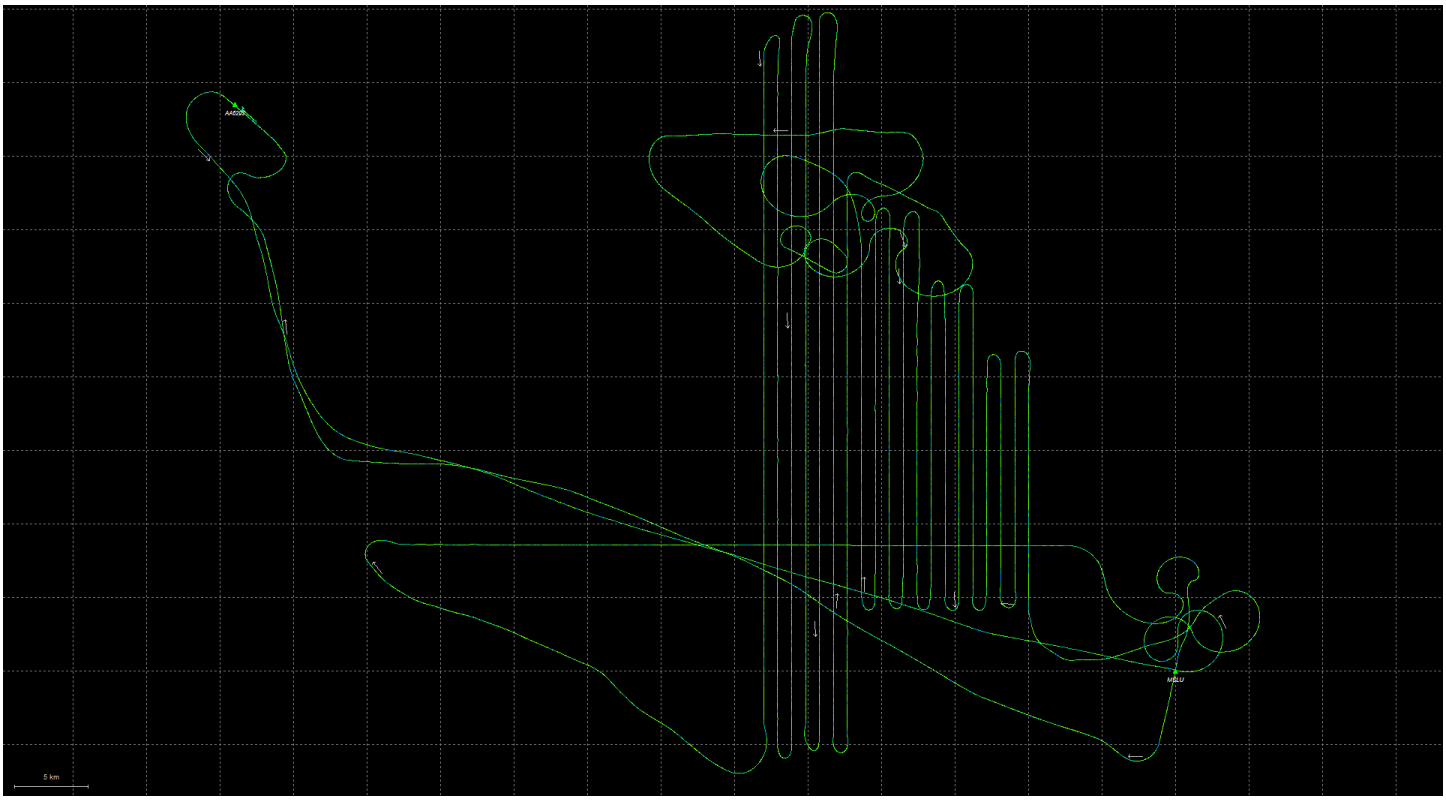
STATUS	TOTAL LINES	FLOWN	LEFT	STATIC	START	STOP	NOTES:
Harrison Guides post	99	41	58	1.6 / .5	15:24	17:53	AHAB3 Base - 15:06 - 18:30
							15:39 up 17:45 down
							3719.7 3721.8
							clear

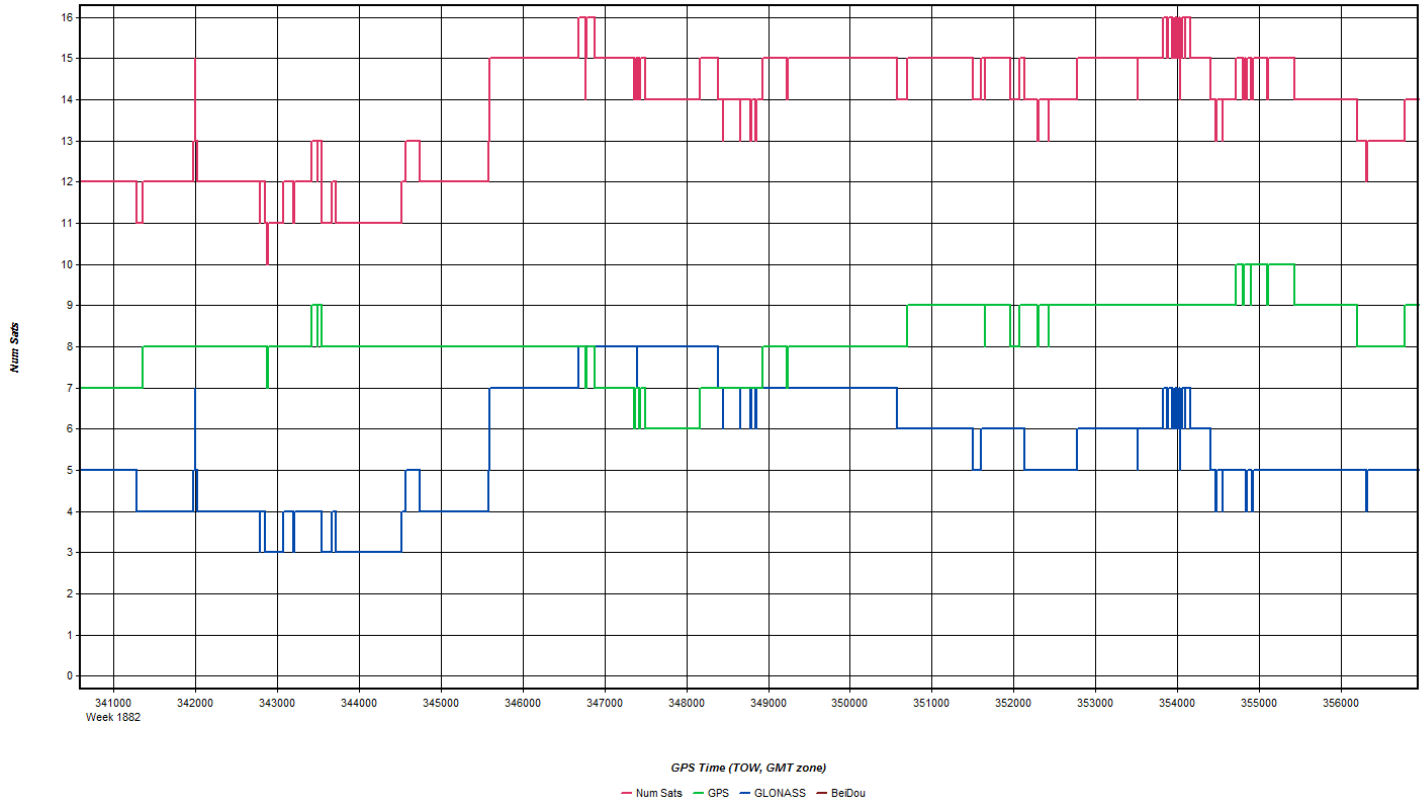
AERO-METRIC, INC. N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-9695 E-Mail: [redacted]

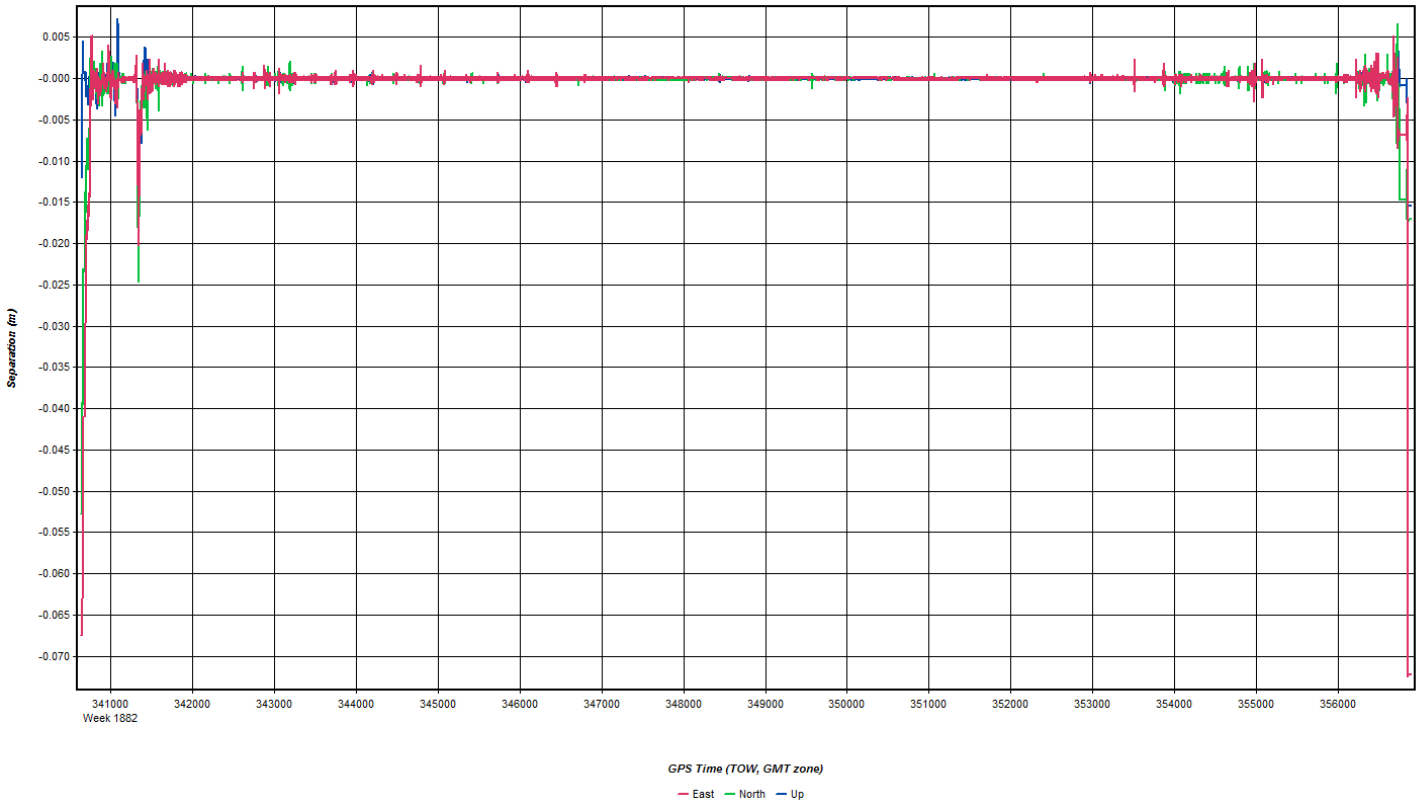
PSI

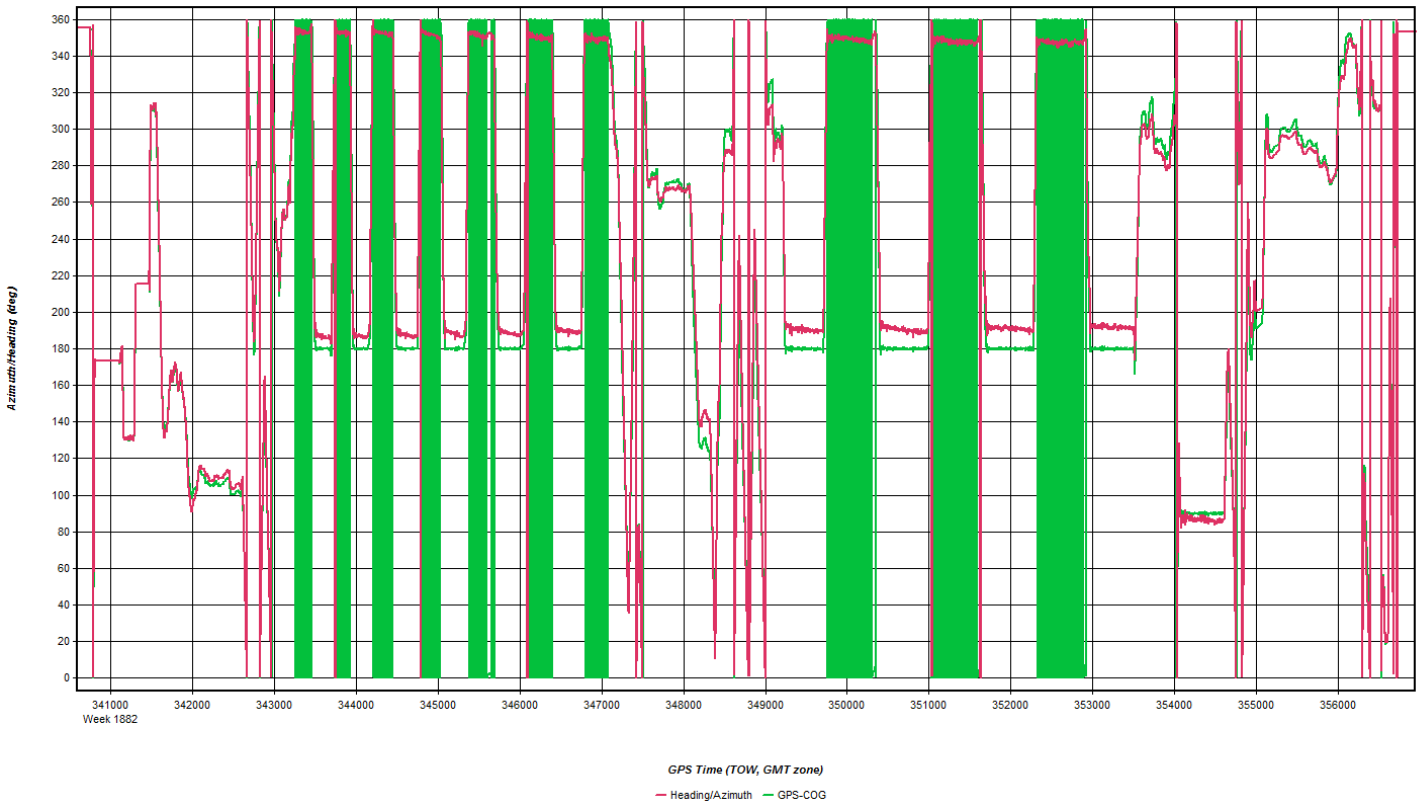
South AOI - State Plane MS East

Feb 3, 2016-A (N208NR, SN8227)

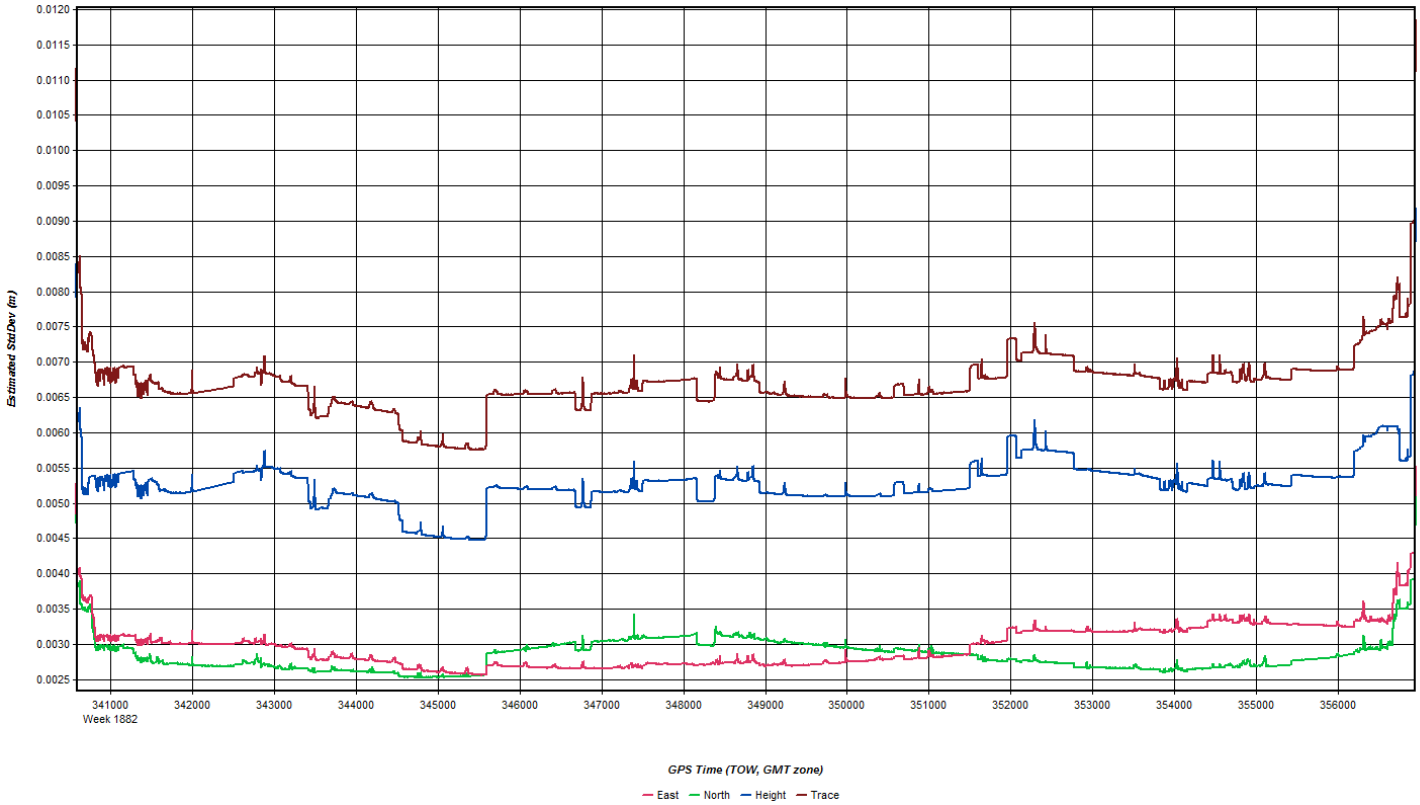

AMDS
MSLU
5 km

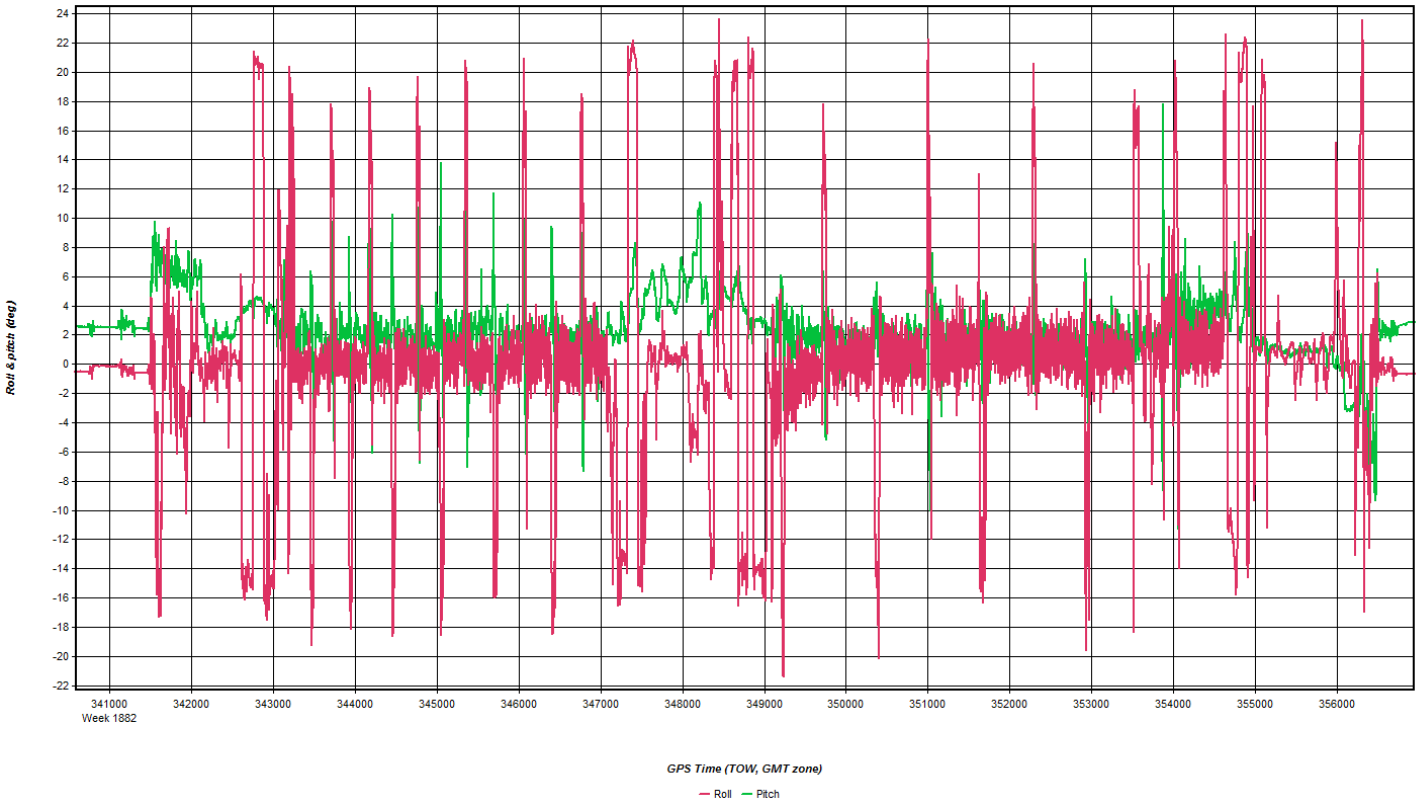

Num Sats
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
341000
Week 1882
342000
343000
344000
345000
346000
347000
348000
349000
350000
351000
352000
353000
354000
355000
356000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

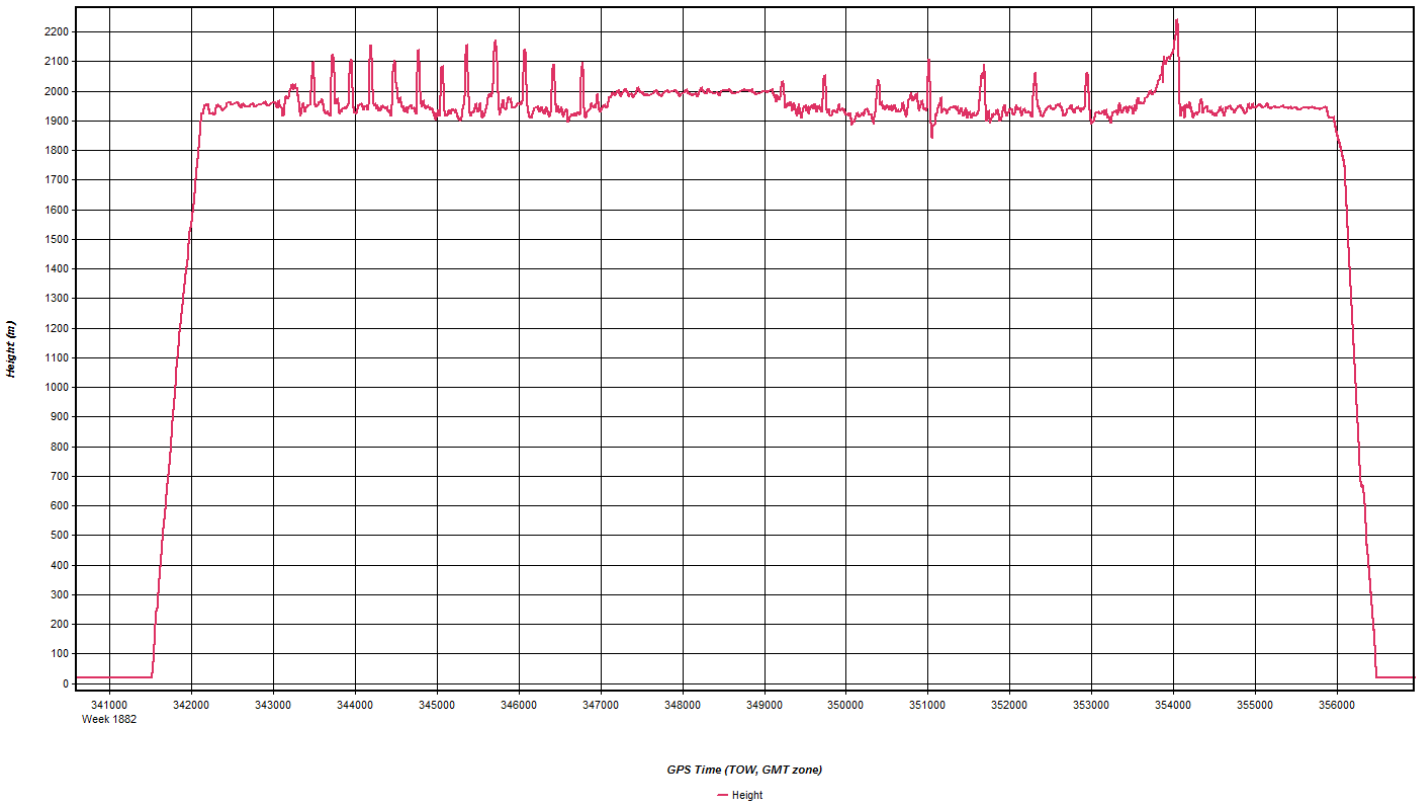

Separation (m)
0.005
0.000
-0.005
-0.010
-0.015
-0.020
-0.025
-0.030
-0.035
-0.040
-0.045
-0.050
-0.055
-0.060
-0.065
-0.070
341000
Week 1882
342000
343000
344000
345000
346000
347000
348000
349000
350000
351000
352000
353000
354000
355000
356000
GPS Time (TOW, GMT zone)
East
North
Up

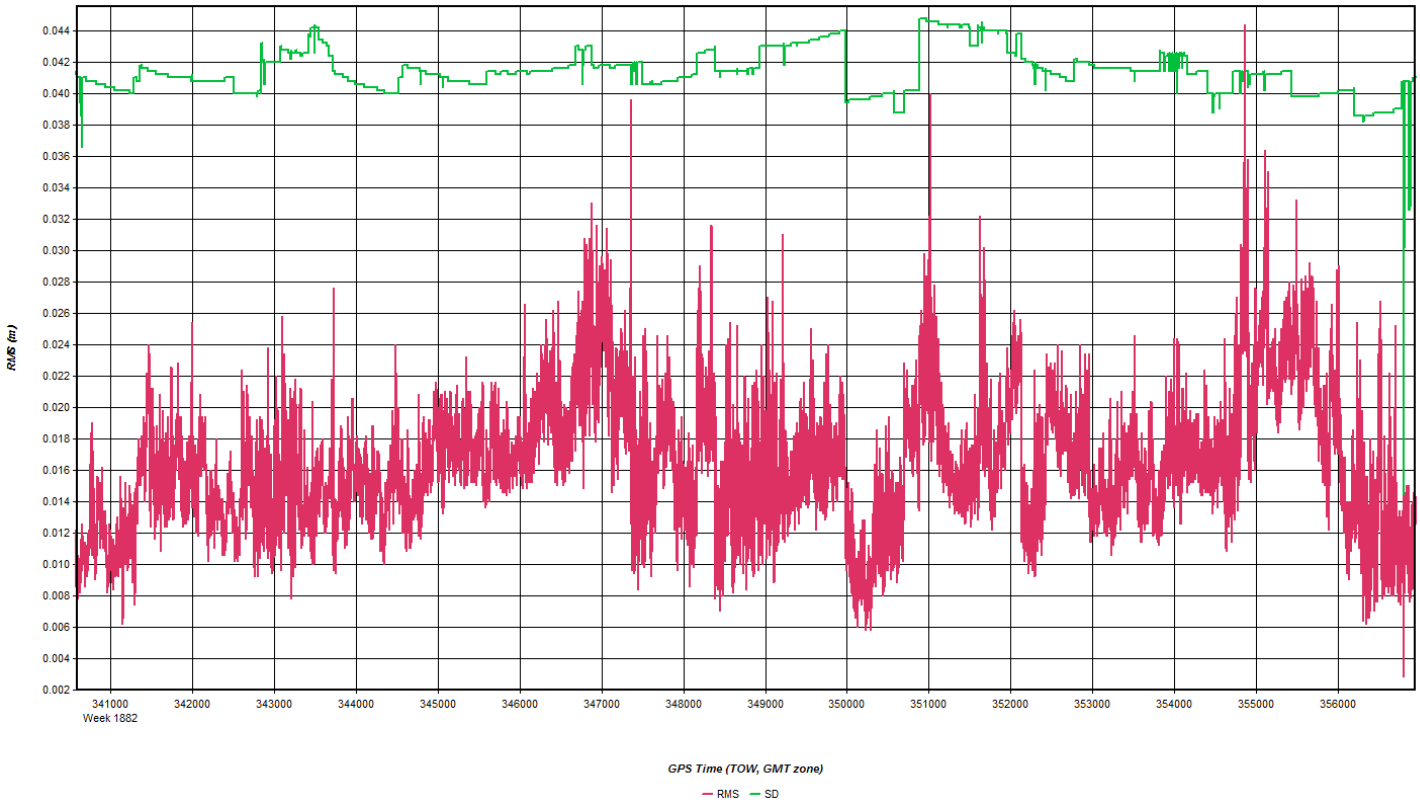

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
341000
Week 1882
342000
343000
344000
345000
346000
347000
348000
349000
350000
351000
352000
353000
354000
355000
356000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

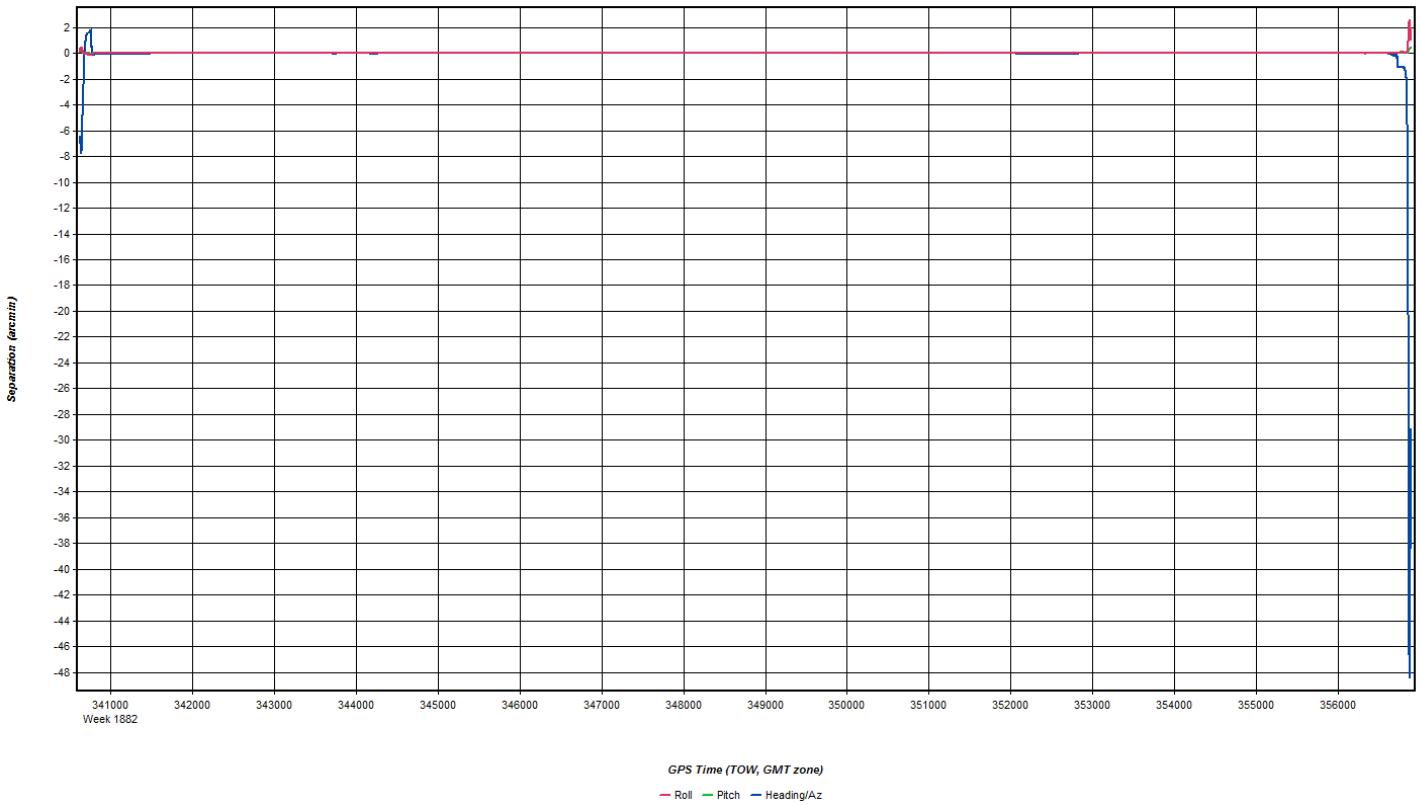

PDOP
1.65
1.60
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.55
0.50
0.45
0.40
0.35
0.30
341000
Week 1882
342000
343000
344000
345000
346000
347000
348000
349000
350000
351000
352000
353000
354000
355000
356000
GPS Time (TOW, GMT zone)
PDOP

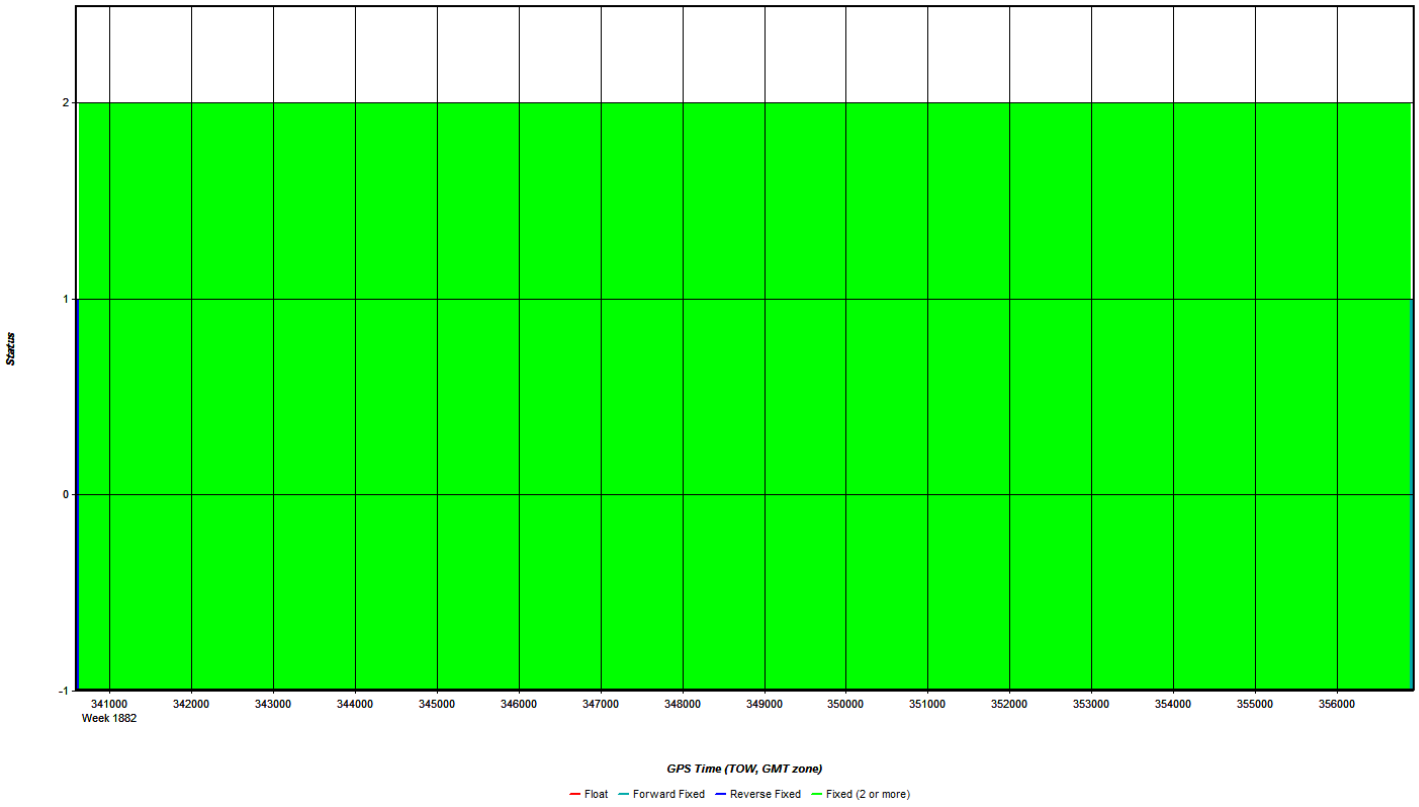

Estimated StdDev (m)
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
0.0025
341000
Week 1882
342000
343000
344000
345000
346000
347000
348000
349000
350000
351000
352000
353000
354000
355000
356000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

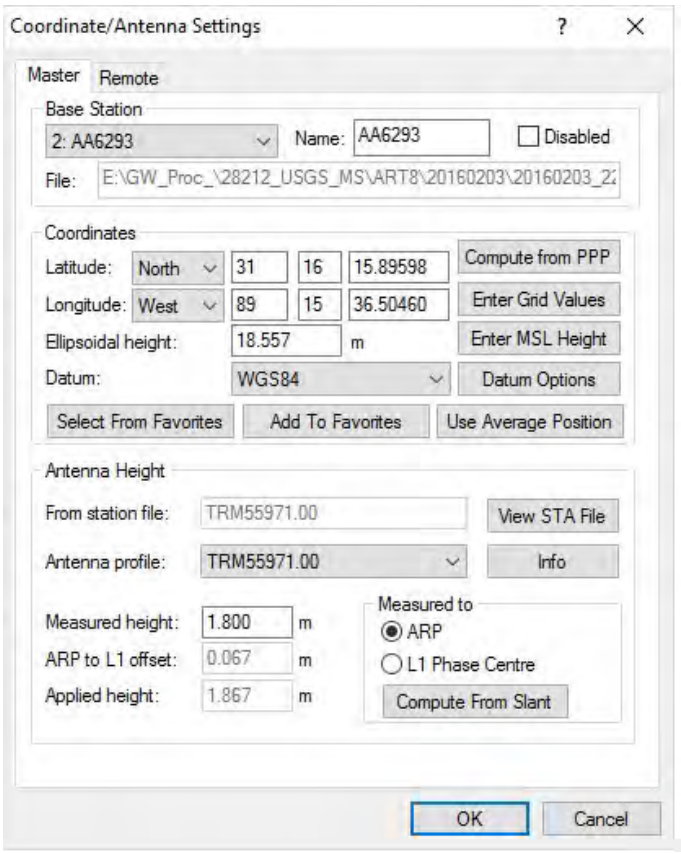

Roll & pitch (deg)
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
341000
Week 1882
342000
343000
344000
345000
346000
347000
348000
349000
350000
351000
352000
353000
354000
355000
356000
GPS Time (TOW, GMT zone)
Roll
Pitch

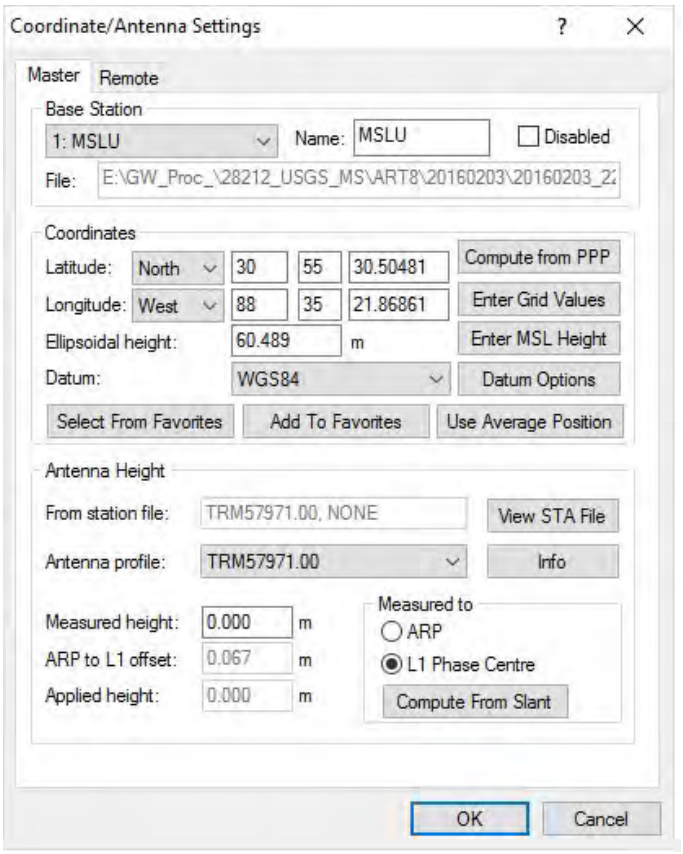

Height (m)
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
341000
Week 1882
342000
343000
344000
345000
346000
347000
348000
349000
350000
351000
352000
353000
354000
355000
356000
GPS Time (TOW, GMT zone)
Height


RMS (m)
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
341000
Week 1882
342000
343000
344000
345000
346000
347000
348000
349000
350000
351000
352000
353000
354000
355000
356000
GPS Time (TOW, GMT zone)
RMS
SD

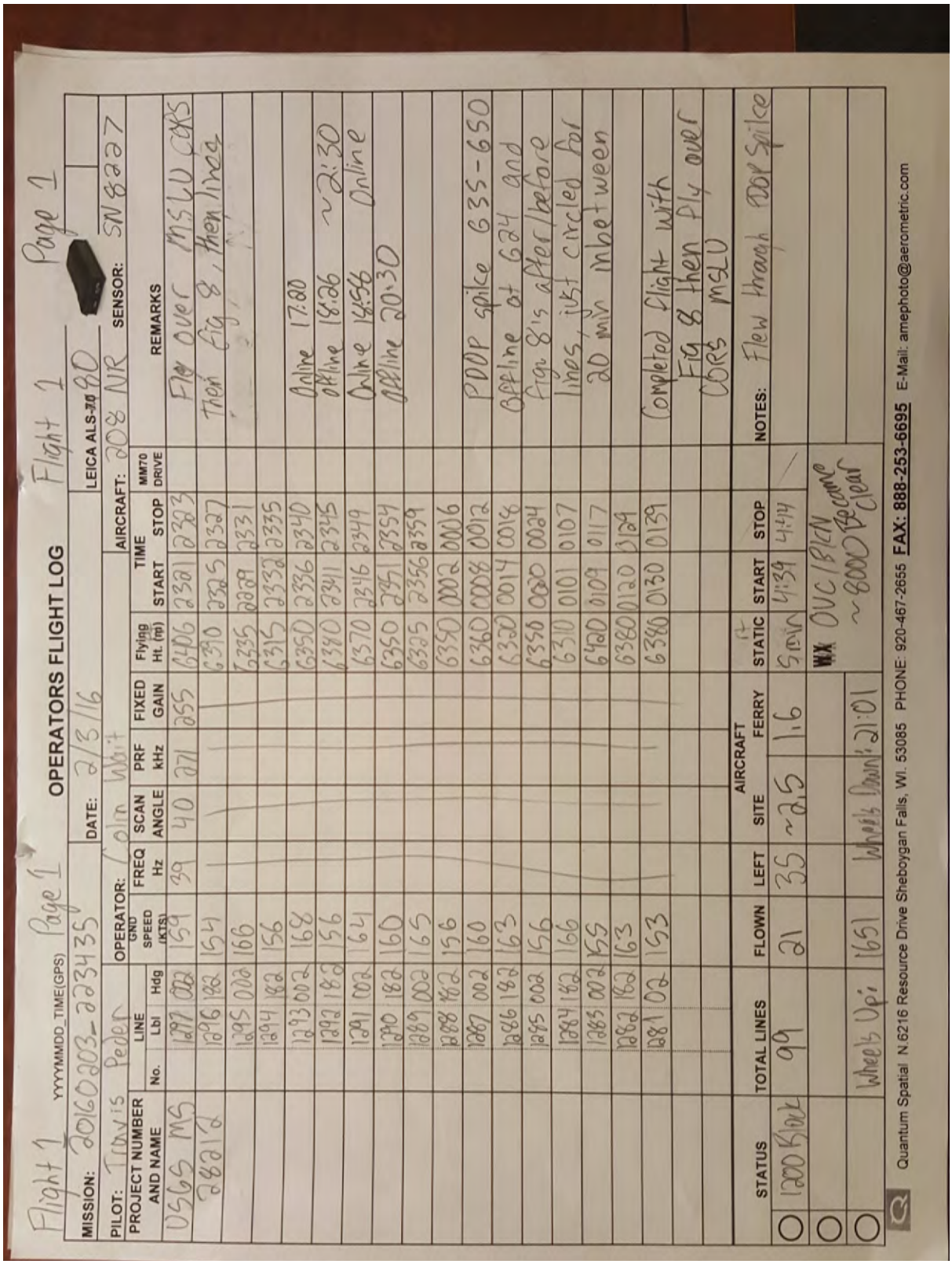

Separation (arcmin)
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
-28
-30
-32
-34
-36
-38
-40
-42
-44
-46
-48
341000
Week 1882
342000
343000
344000
345000
346000
347000
348000
349000
350000
351000
352000
353000
354000
355000
356000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
341000
Week 1882
342000
343000
344000
345000
346000
347000
348000
349000
350000
351000
352000
353000
354000
355000
356000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
2: AA6293
Name:
AA6293
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\ART8\20160203\20160203_22
Coordinates
Latitude:
North
31
16
15.89598
Compute from PPP
Longitude:
West
89
15
36.50460
Enter Grid Values
Ellipsoidal height:
18.557
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM55971.00
View STA File
Antenna profile:
TRM55971.00
Info
Measured height:
1.800
m
ARP to L1 offset:
0.067
m
Applied height:
1.867
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSLU
Name: MSLU
Disabled
File: E:\GW_Proc_\28212_USGS_MS\ART8\20160203\20160203_2
Coordinates
Latitude: North 30 55 30.50481
Longitude: West 88 35 21.86861
Ellipsoidal height: 60.489 m
Datum: WGS84
Compute from PPP
Enter Grid Values
Enter MSL Height
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file: TRM57971.00, NONE
View STA File
Antenna profile: TRM57971.00
Info
Measured height: 0.000 m
ARP to L1 offset: 0.067 m
Applied height: 0.000 m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log



Flight 1 Page 1

OPERATORS FLIGHT LOG

MISSION: 20160203_223435 DATE: 2/3/16 LEICA ALS-70 80

PILOT: Tony is Peder OPERATOR: Colin Whit AIRCRAFT: 208 NR SENSOR: SN8227

PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS
USGS MS		1871	002	159	39	40	271	055	6406	2301	2323		Fly over MSLU CORS
28010		1896	182	154					6390	2325	2327		Then Fig 8, then lines
		1895	002	166					6335	0089	2331		
		1894	182	156					6315	2332	2335		
		1893	002	168					6350	2336	2340		Online 17:00
		1892	182	156					6340	2341	2345		Offline 18:26 ~2:30
		1891	002	164					6370	2346	2349		Online 14:58 Online
		1890	182	160					6350	2351	2354		Offline 20:30
		1889	002	165					6305	2356	2359		
		1888	182	156					6350	0002	0006		
		1887	002	160					6360	0008	0012		POOP spike 635-650
		1886	182	163					6320	0014	0018		Offline at 624 and
		1885	002	156					6350	0020	0024		Fig 8's after/before
		1884	182	166					6310	0101	0107		lines, just circled for
		1883	002	155					6480	0109	0117		20 min inbetween
		1882	182	163					6380	0120	0129		
		1881	02	153					6380	0130	0139		Completed flight with
													Fig 8 then Fly over
													CORS MSLU

STATUS	TOTAL LINES	FLOWN	AIRCRAFT LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	NOTES:
○ 1200 Klok	99	21	35	~25	1.6	Start	1:39	4:14	Flew through POP Spike
○						WX OVC 18KN ~8000 Become Clear			
○ Wheels Up: 1651			Wheels Down: 21:01						

Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@aerometric.com

Page 2 YYYYMMDD_TIME(GPS) Flight 1 OPERATORS FLIGHT LOG Page 2 Flight 1

MISSION: 20160203_223435 DATE: 2/3/16 LEICA ALS70 80

PILOT: Travis Peden OPERATOR: Colin Hart AIRCRAFT: N208UR SENSOR: 8227

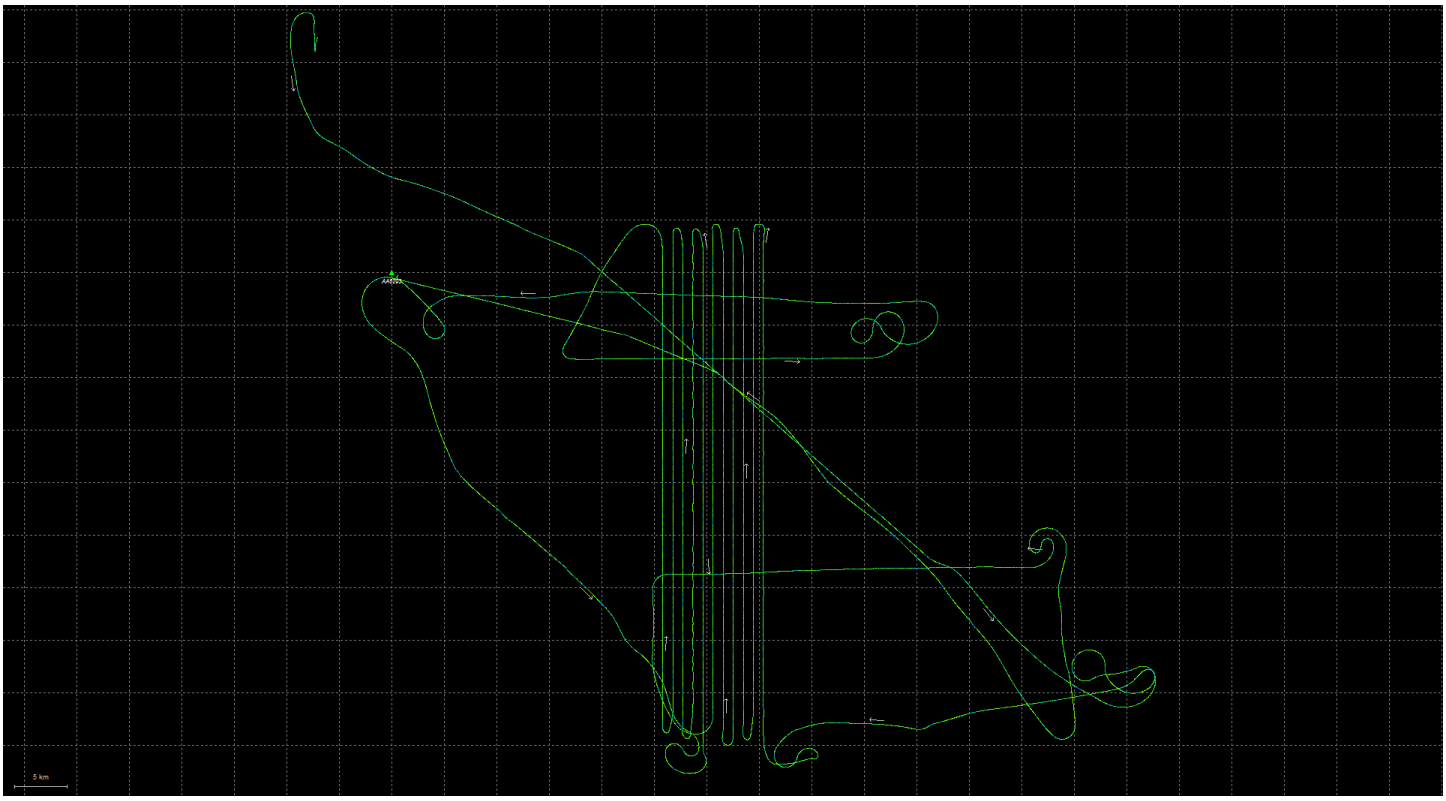
PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS
VGS Ins					39	40	271	255					
29813		180	182	160	1	1	1		6390	0141	0150		
		179	02	157	1	1	1		6250	0152	0201		
		178	182	164	1	1	1		6340	0202	0211		
					1	1	1						
Cross		179	02	164	1	1	1		6380	0221	0229		Crossline

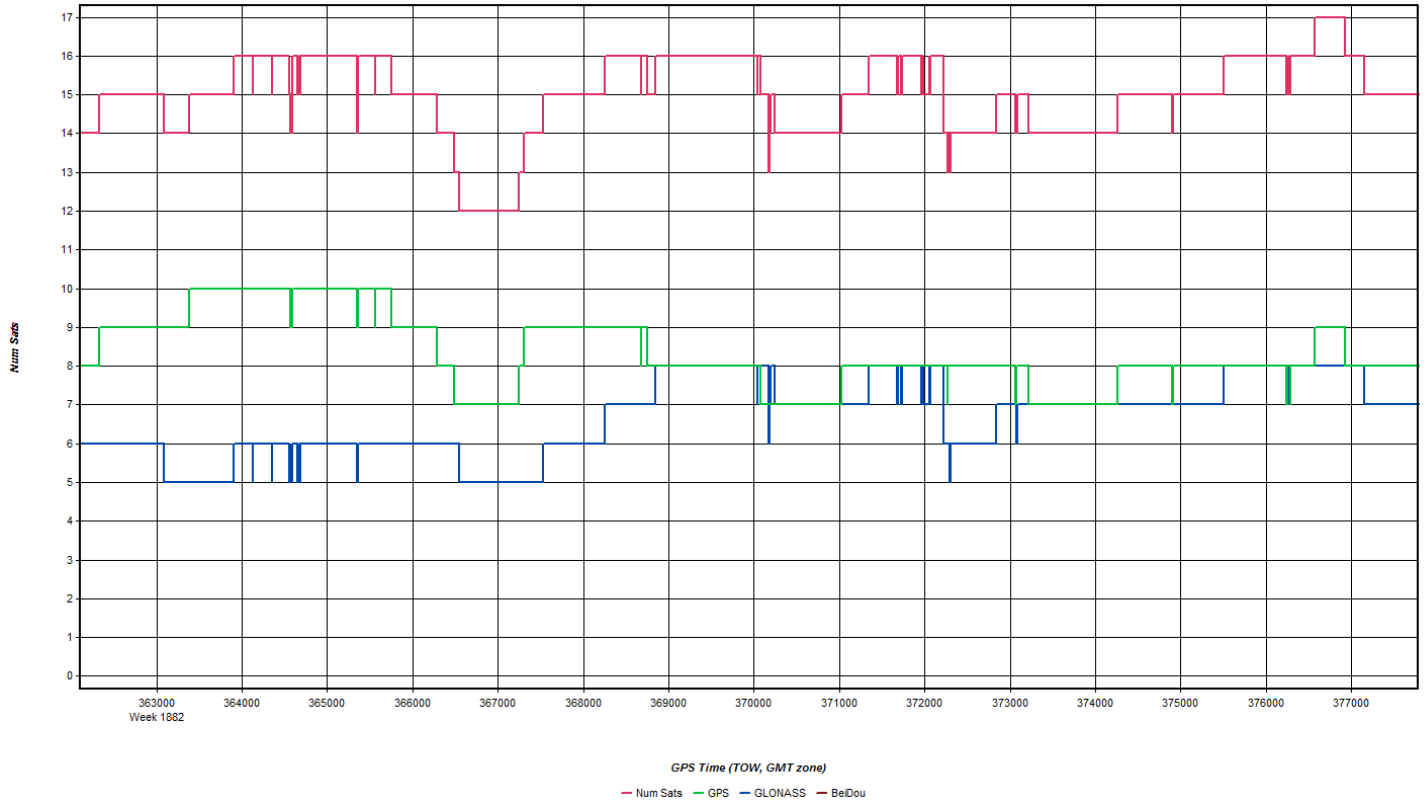
STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	NOTES:
○ 1200Back									
○						WX OVC/BKN Below ~6000 Clear			
○									

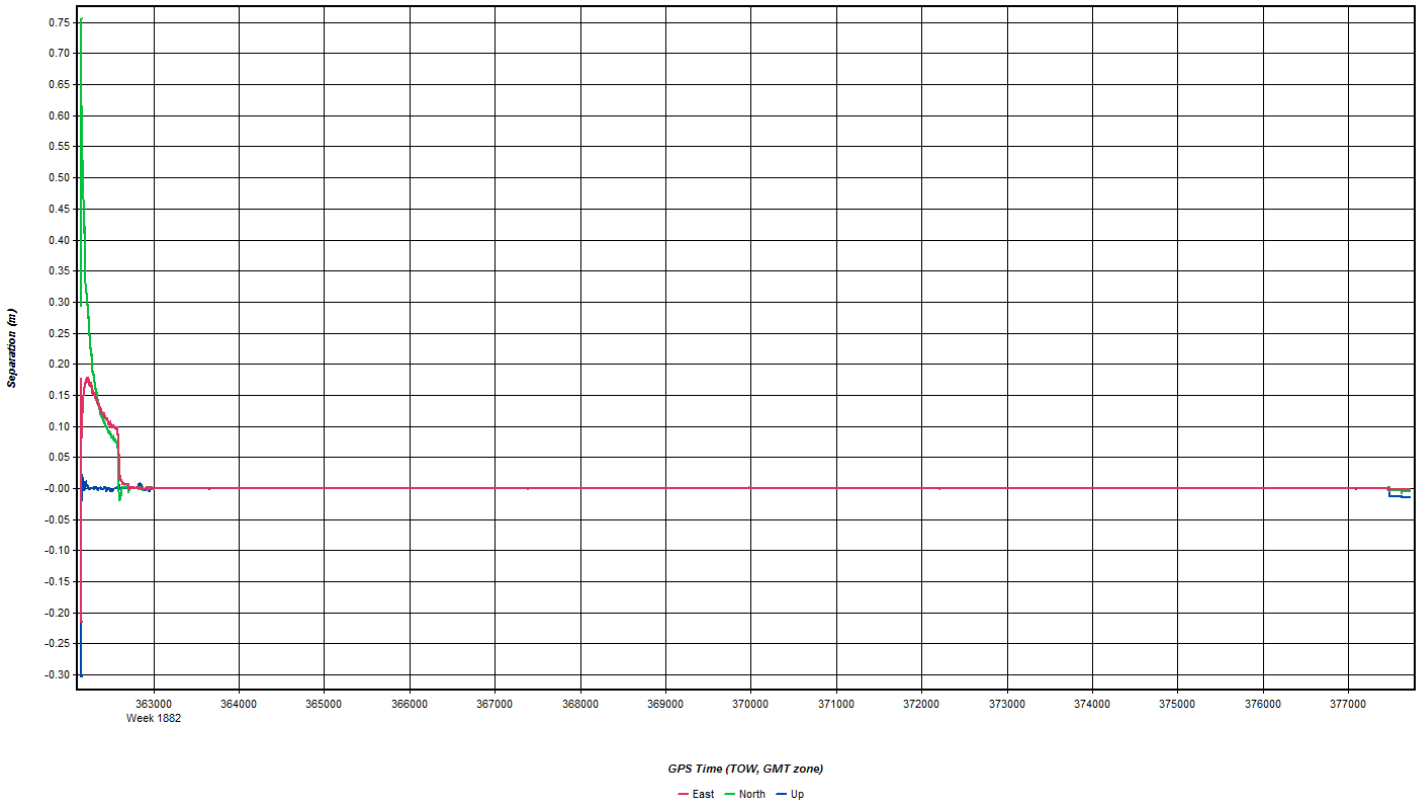
Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@aerometric.com

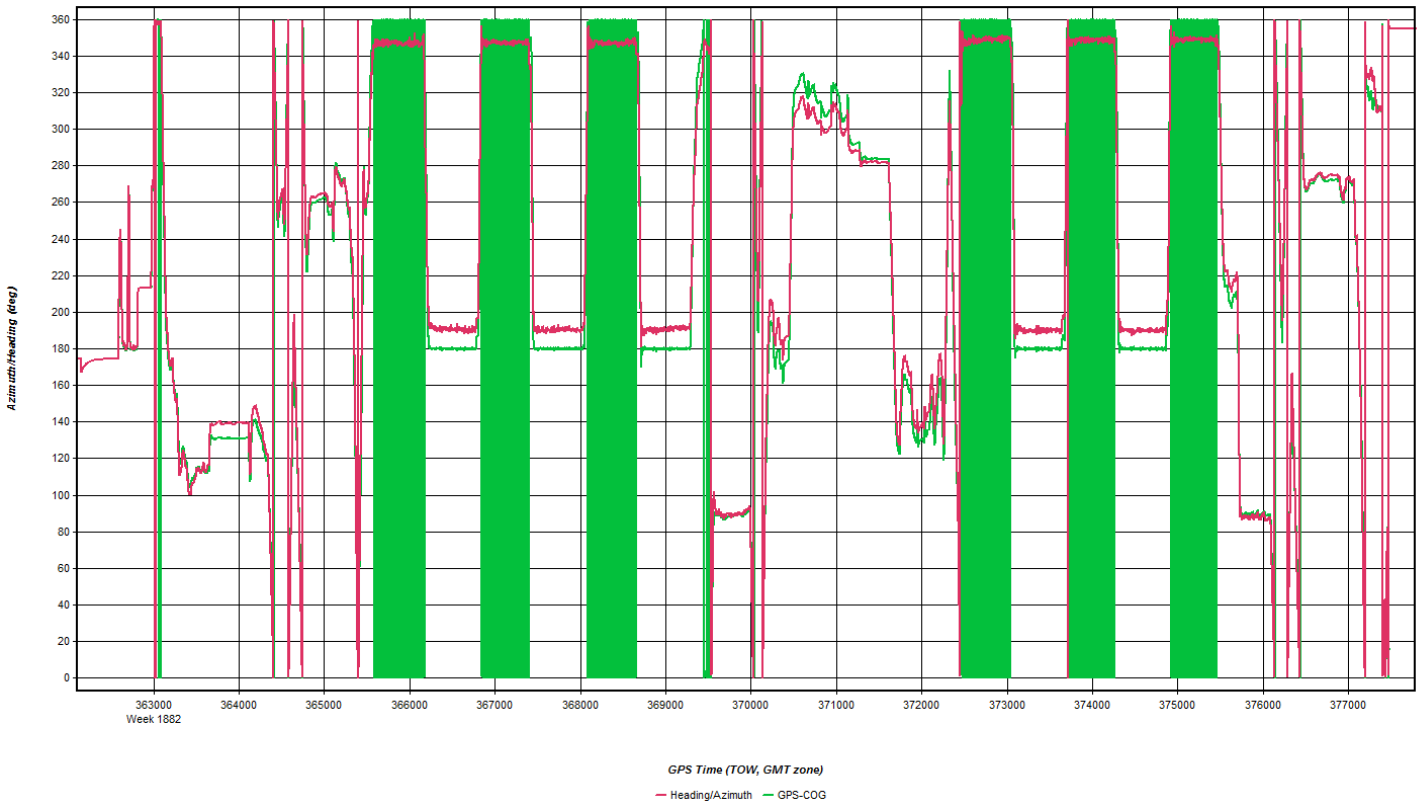
South AOI - State Plane MS East

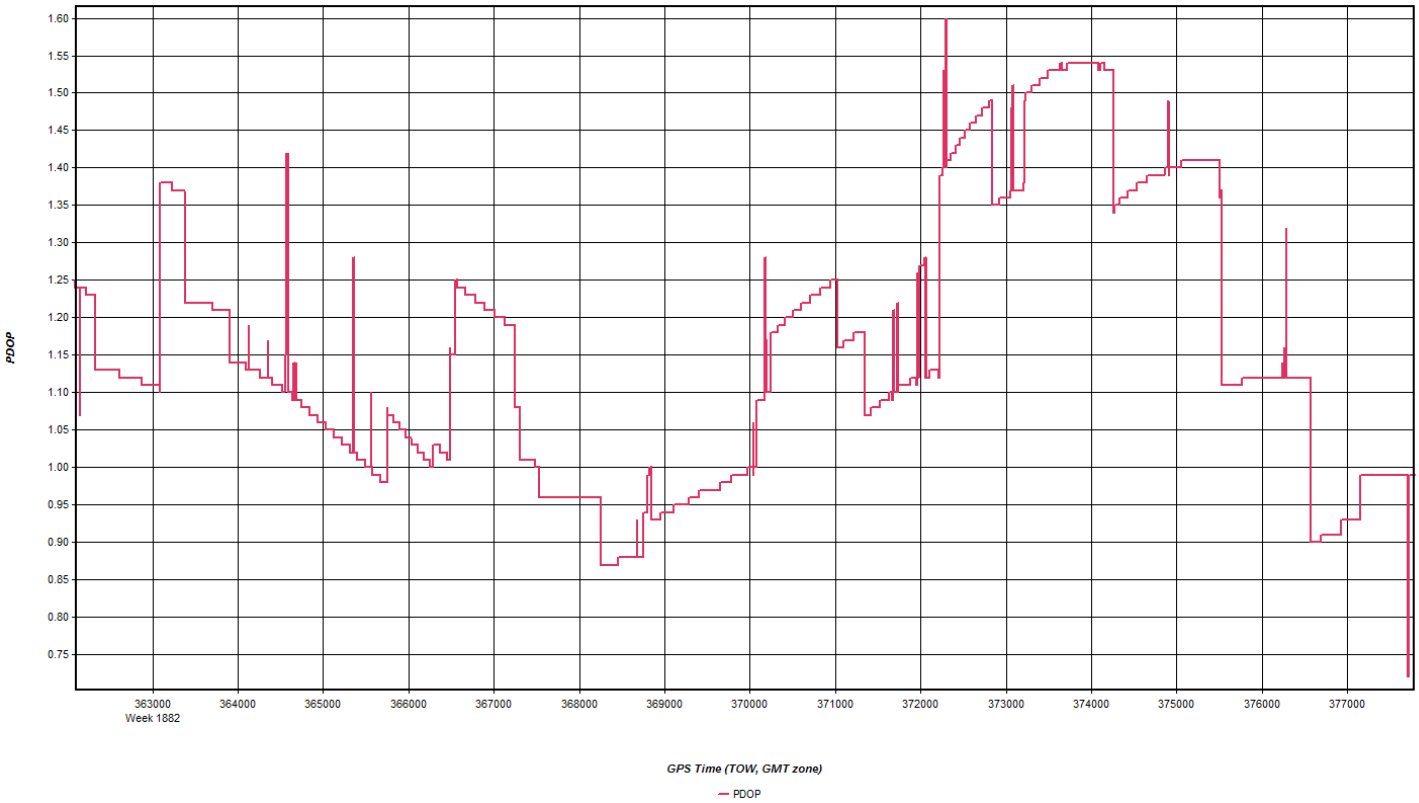
Feb 4, 2016-A (N208NR, SN8227)

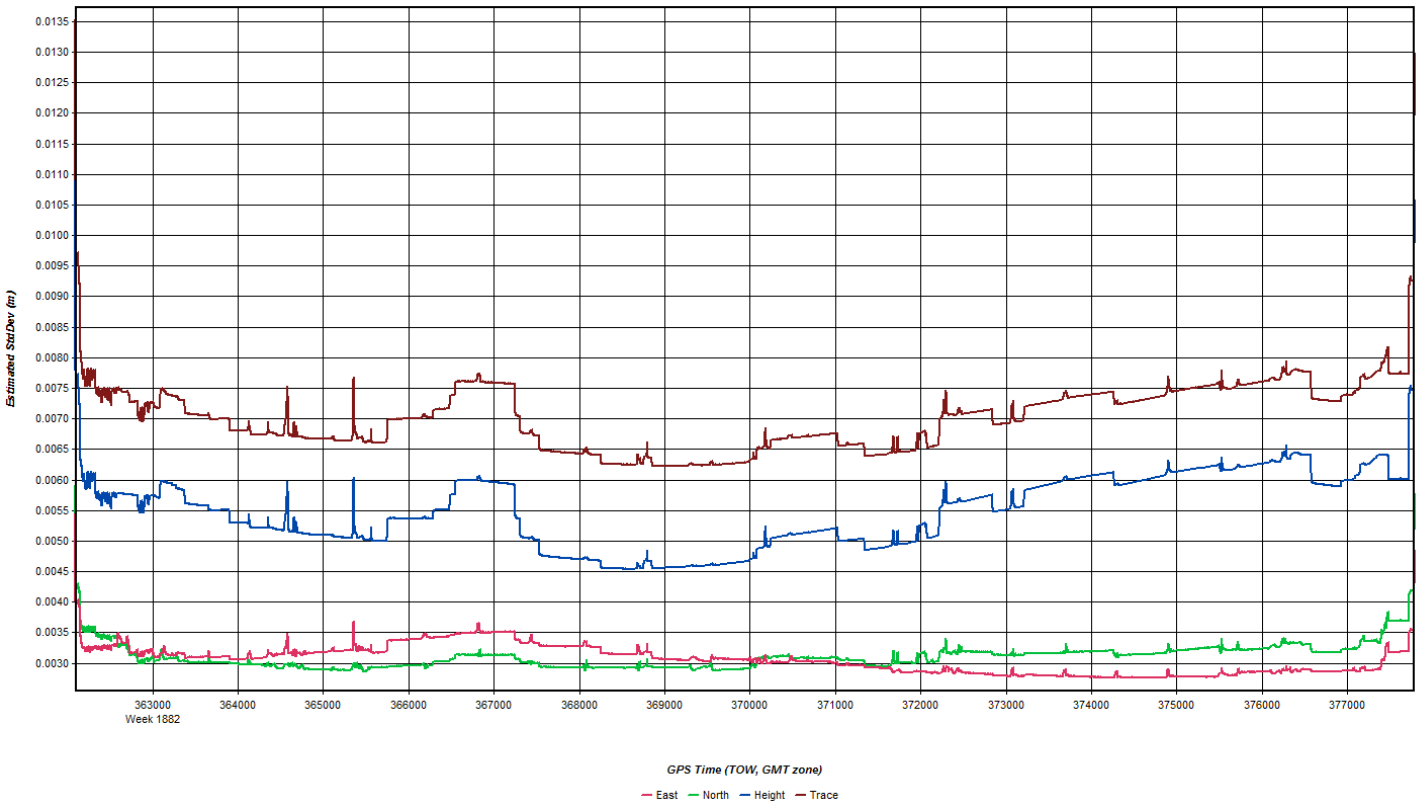

5 km


Num Sats
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
363000
Week 1882
364000
365000
366000
367000
368000
369000
370000
371000
372000
373000
374000
375000
376000
377000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

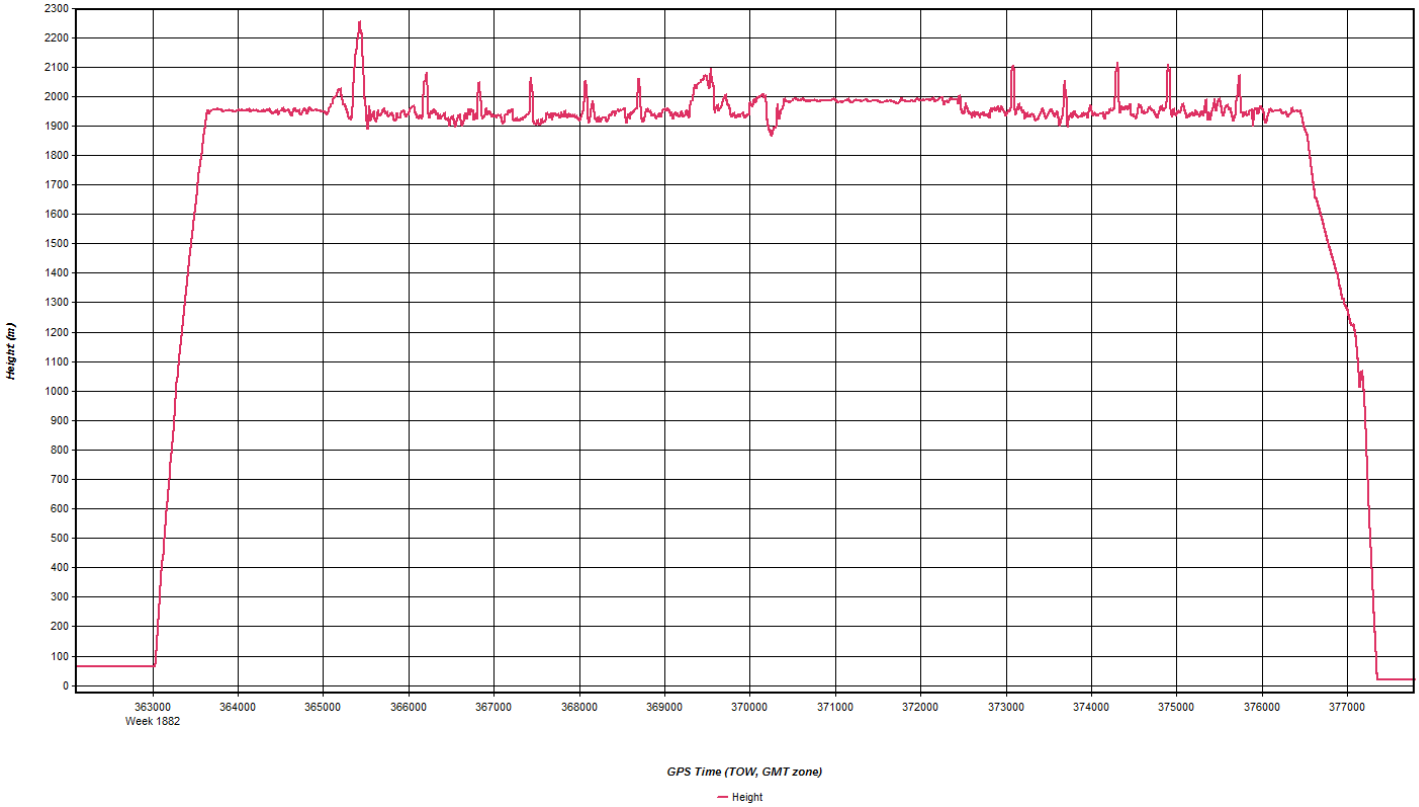

Separation (m)
0.75
0.70
0.65
0.60
0.55
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
-0.00
-0.05
-0.10
-0.15
-0.20
-0.25
-0.30
363000
Week 1882
364000
365000
366000
367000
368000
369000
370000
371000
372000
373000
374000
375000
376000
377000
GPS Time (TOW, GMT zone)
East
North
Up

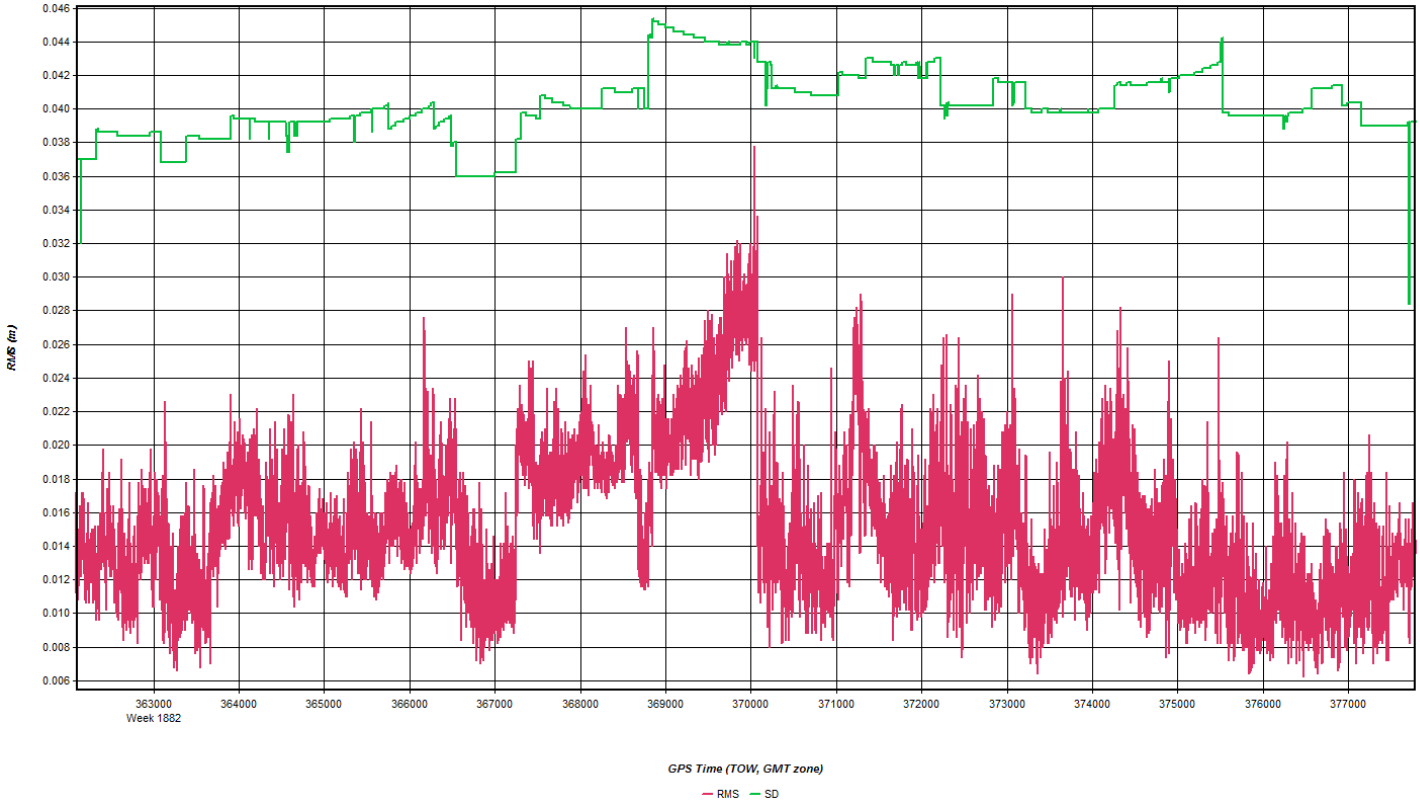

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
363000
Week 1882
364000
365000
366000
367000
368000
369000
370000
371000
372000
373000
374000
375000
376000
377000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

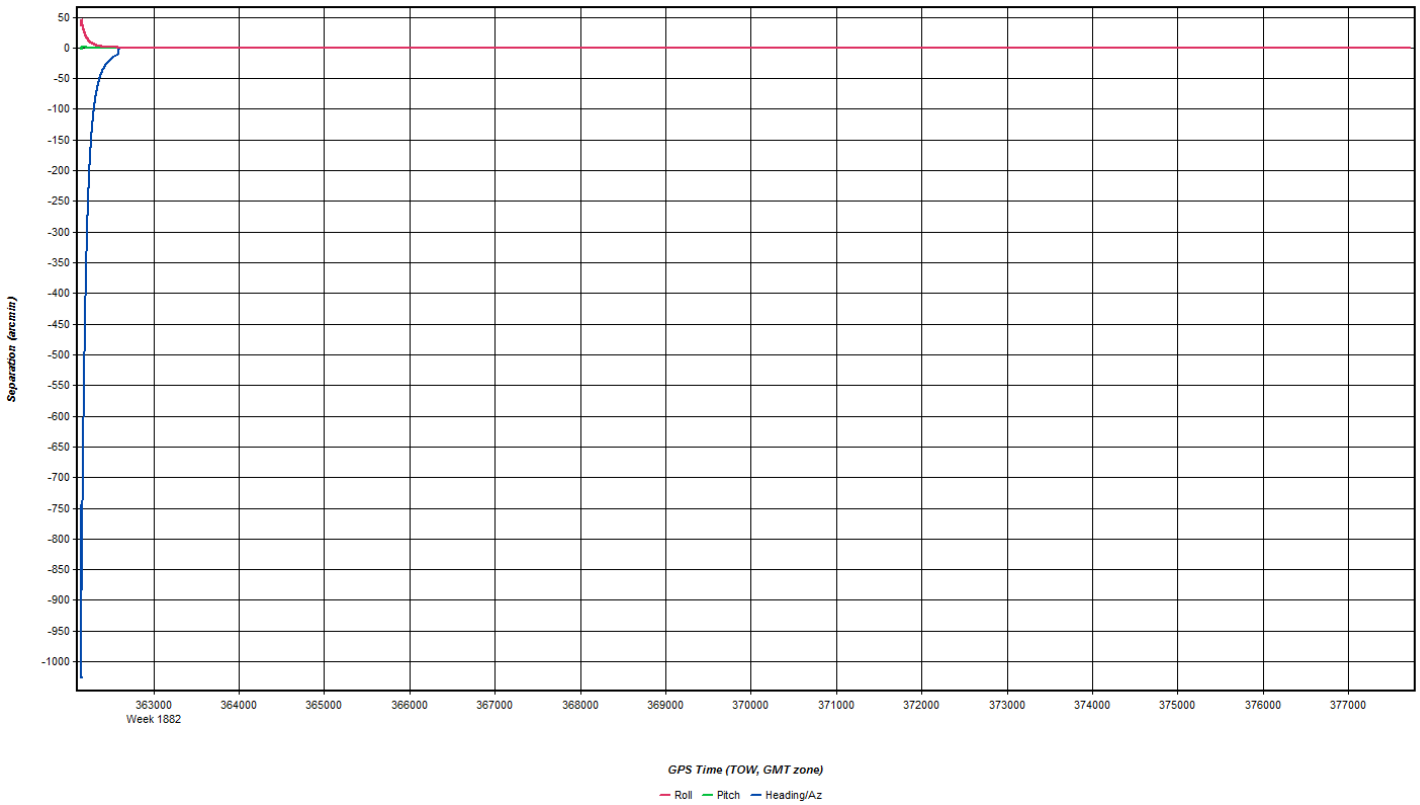

PDOP
1.60
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
0.95
0.90
0.85
0.80
0.75
363000
Week 1882
364000
365000
366000
367000
368000
369000
370000
371000
372000
373000
374000
375000
376000
377000
GPS Time (TOW, GMT zone)
PDOP

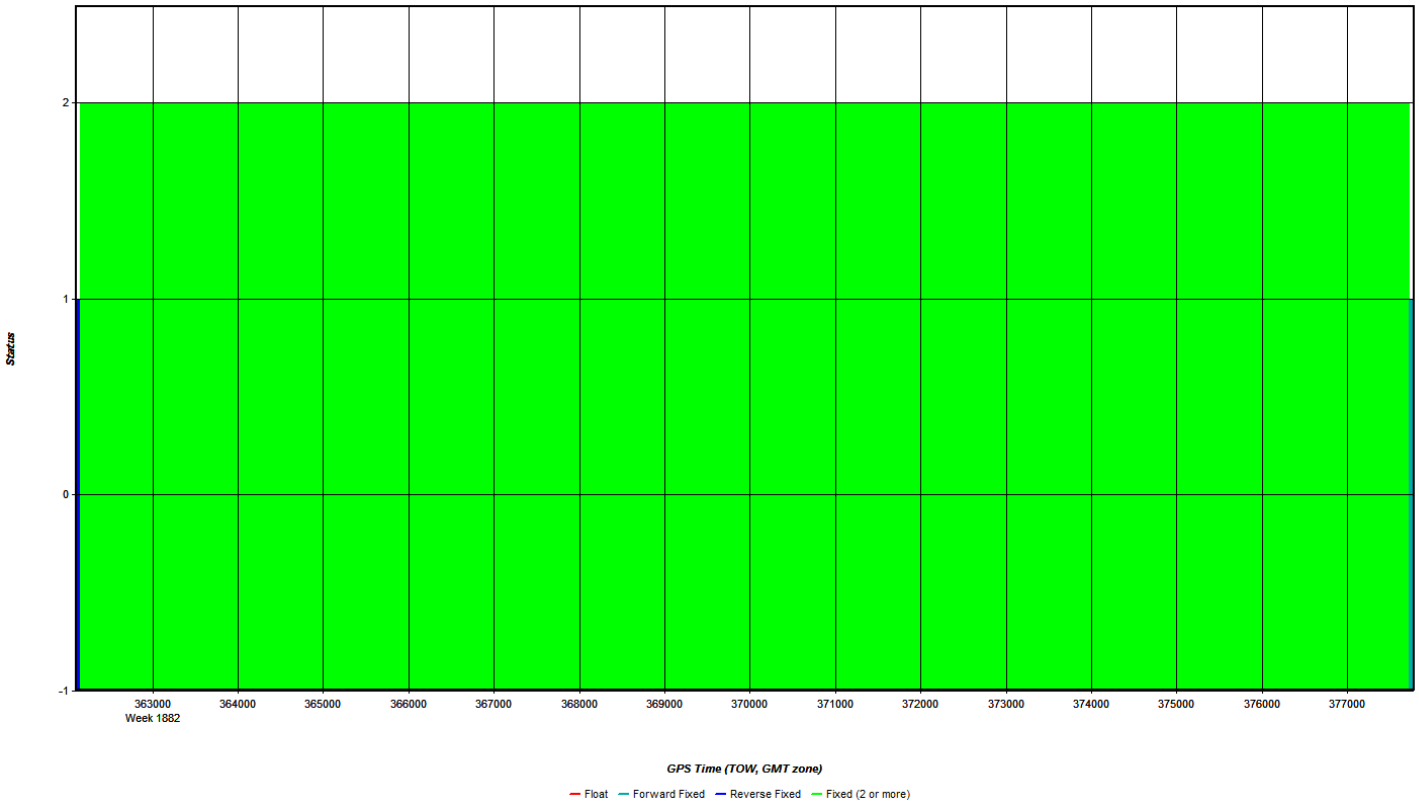

Estimated StdDev (m)
0.0135
0.0130
0.0125
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
363000
Week 1882
364000
365000
366000
367000
368000
369000
370000
371000
372000
373000
374000
375000
376000
377000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

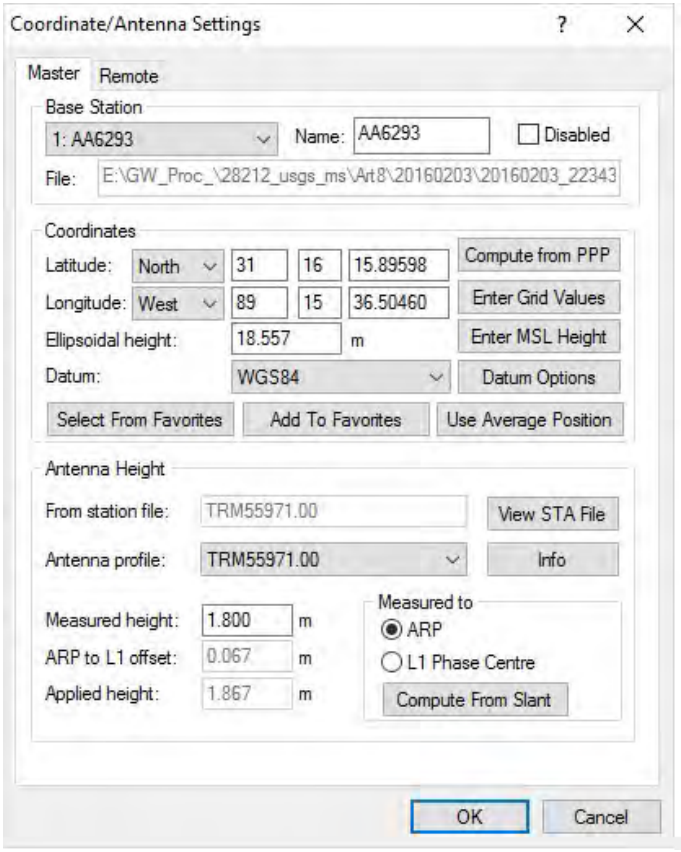

Roll & pitch (deg)
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
363000
Week 1882
364000
365000
366000
367000
368000
369000
370000
371000
372000
373000
374000
375000
376000
377000
GPS Time (TOW, GMT zone)
Roll
Pitch


Height (m)
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
363000
Week 1882
364000
365000
366000
367000
368000
369000
370000
371000
372000
373000
374000
375000
376000
377000
GPS Time (TOW, GMT zone)
Height

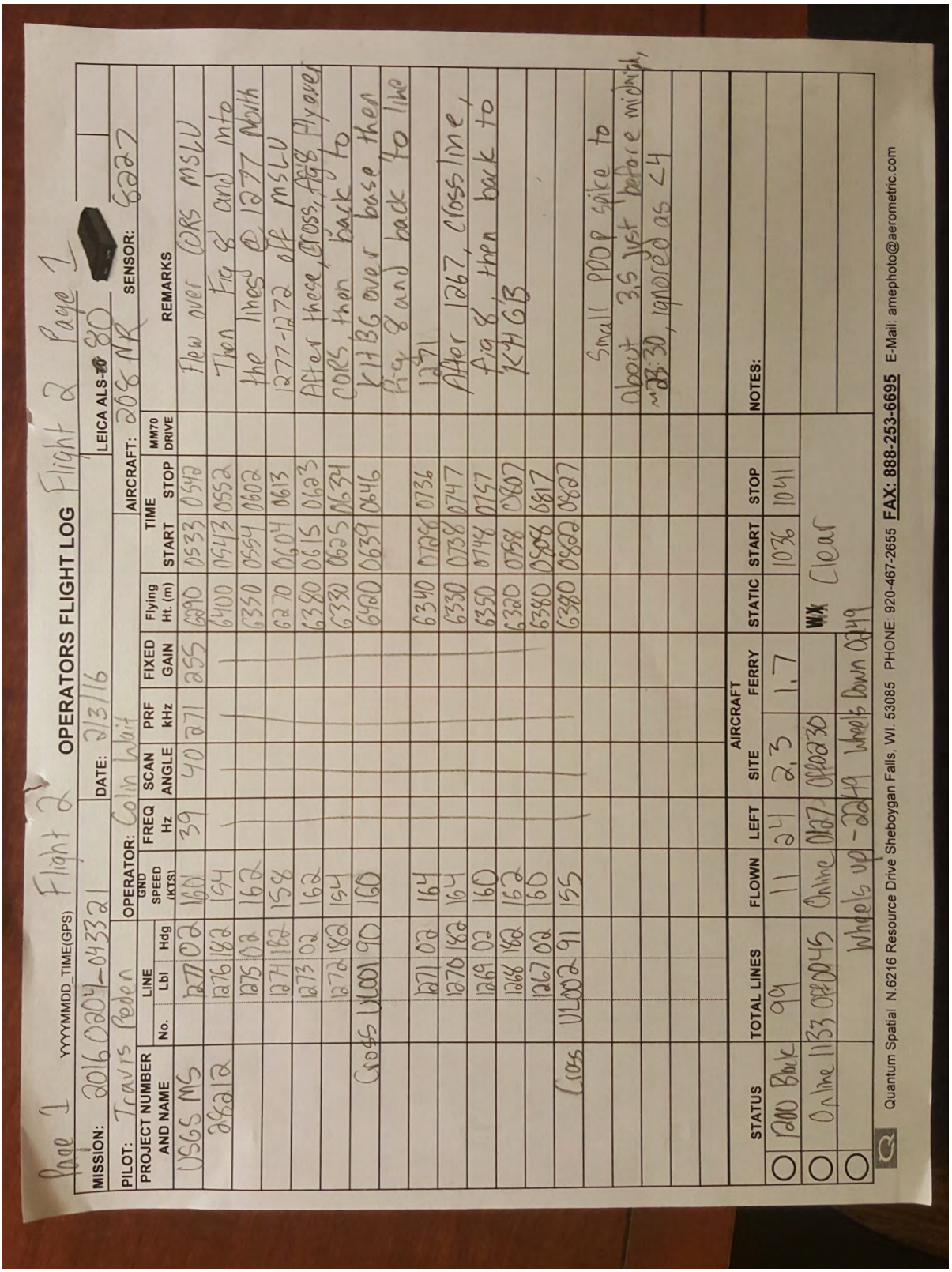

RMS (m)
0.046
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
363000
Week 1882
364000
365000
366000
367000
368000
369000
370000
371000
372000
373000
374000
375000
376000
377000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
-500
-550
-600
-650
-700
-750
-800
-850
-900
-950
-1000
363000
Week 1882
364000
365000
366000
367000
368000
369000
370000
371000
372000
373000
374000
375000
376000
377000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
363000
Week 1882
364000
365000
366000
367000
368000
369000
370000
371000
372000
373000
374000
375000
376000
377000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
1: AA6293
Name:
AA6293
Disabled
File:
E:\GW_Proc_\28212_usgs_ms\Art8\20160203\20160203_22343
Coordinates
Latitude:
North
31
16
15.89598
Compute from PPP
Longitude:
West
89
15
36.50460
Enter Grid Values
Ellipsoidal height:
18.557
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM55971.00
View STA File
Antenna profile:
TRM55971.00
Info
Measured height:
1.800
m
ARP to L1 offset:
0.067
m
Applied height:
1.867
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log



Page 1 YYYYMMDD_TIME(GPS) Flight 2 **OPERATORS FLIGHT LOG** Flight 2 Page 1

MISSION: 20160804-043321 DATE: 8/3/16 LEICA ALS-80

PILOT: Travis Peden OPERATOR: Colin Hirt AIRCRAFT: 206 NK SENSOR: 6227

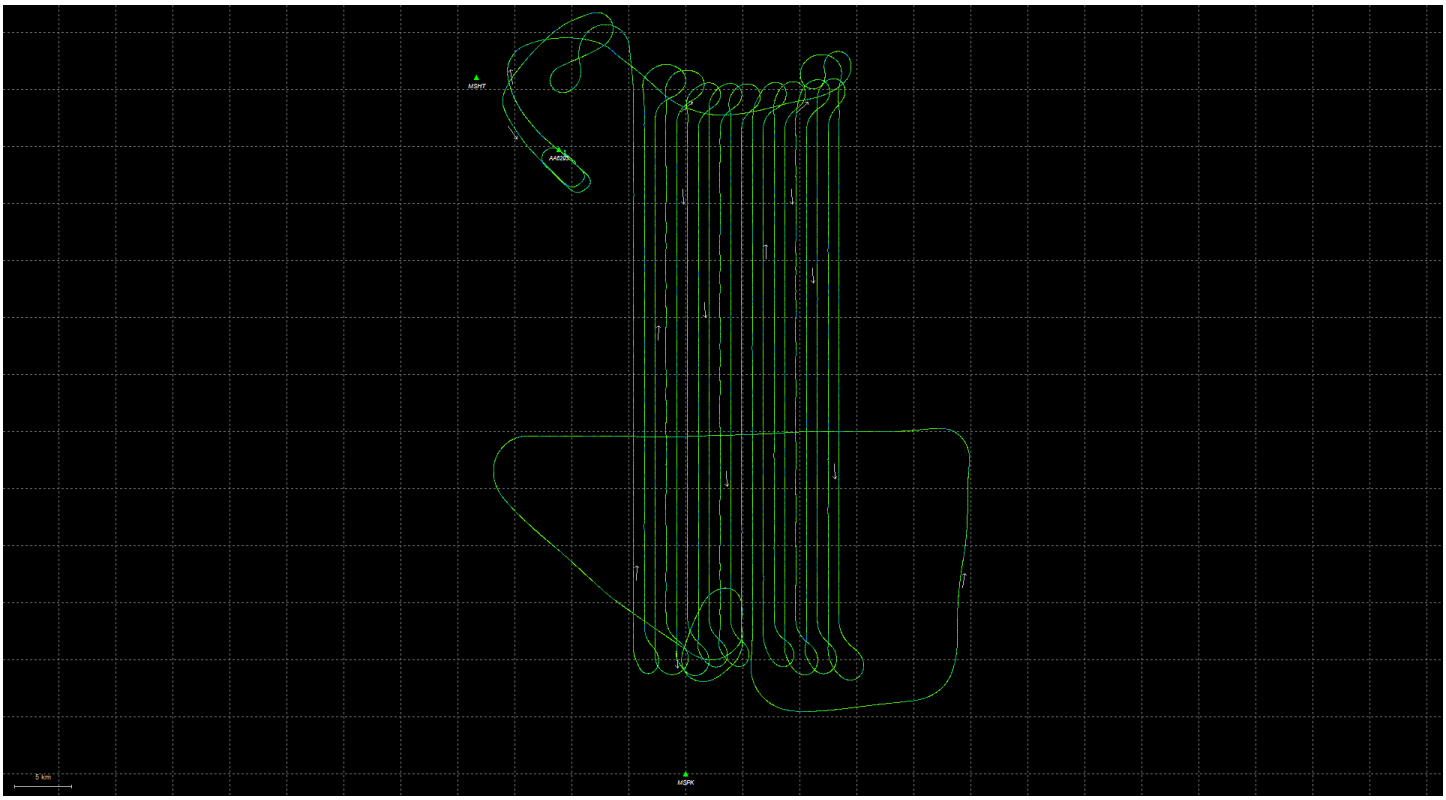
PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS
USGS MS		1277	102	160	39	40	271	255	6890	0533	0540		Flew over CORS MSLU
26212		1276	182	164					6400	0543	0552		Then Fig 8 and into
		1275	102	162					6350	0554	0602		the lines @ 1277 North
		1274	182	158					6270	0604	0613		1277-1272 off MSLU
		1273	102	162					6380	0615	0623		After those, Cross, Fig 8 Flyover
		1272	182	164					6330	0625	0634		CORS, then back to
Cross	UL001	90		160					6400	0639	0646		KHGB over base then
													Fig 8 and back to line
		1271	102	164					6340	0726	0736		1271
		1270	182	164					6330	0738	0747		After 1267, Crossline,
		1269	102	160					6350	0748	0757		Fig 8, then back to
		1268	182	162					6320	0758	0807		KHGB
		1267	102	160					6380	0808	0817		
Cross	UL002	91		155					6380	0820	0827		
													Small POP spike to
													about 3.5 feet before mission,
													~8:30, ignored as L4

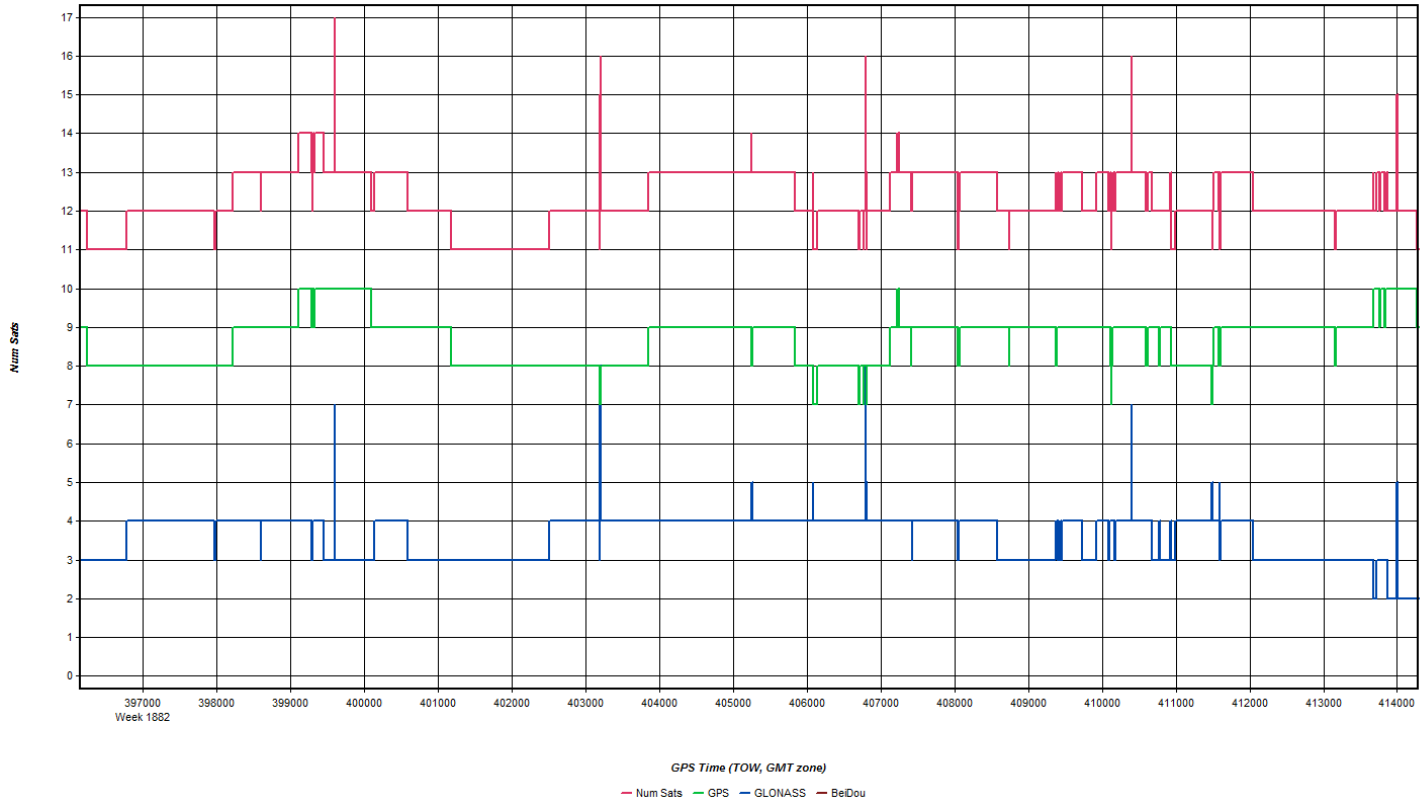
STATUS	TOTAL LINES	FLOWN	AIRCRAFT LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	NOTES:
○ 1200 Back	99	11	24	2.3	1.7		1036	1041	
○ Online 1133 0820045		Online	0827	0820830		WX Clear			
○	Wheels up - 2049 Wheels Down 0949								

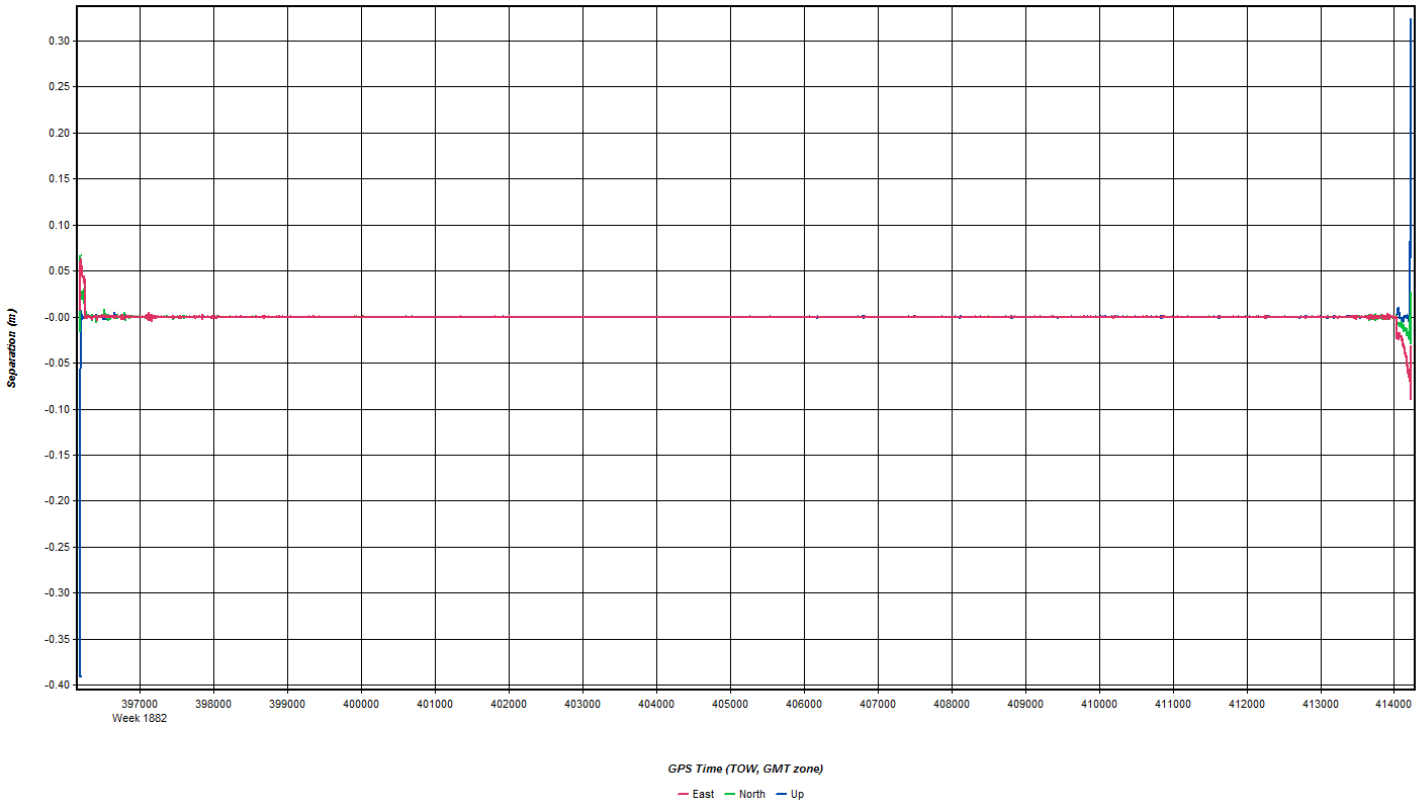
Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@aerometric.com

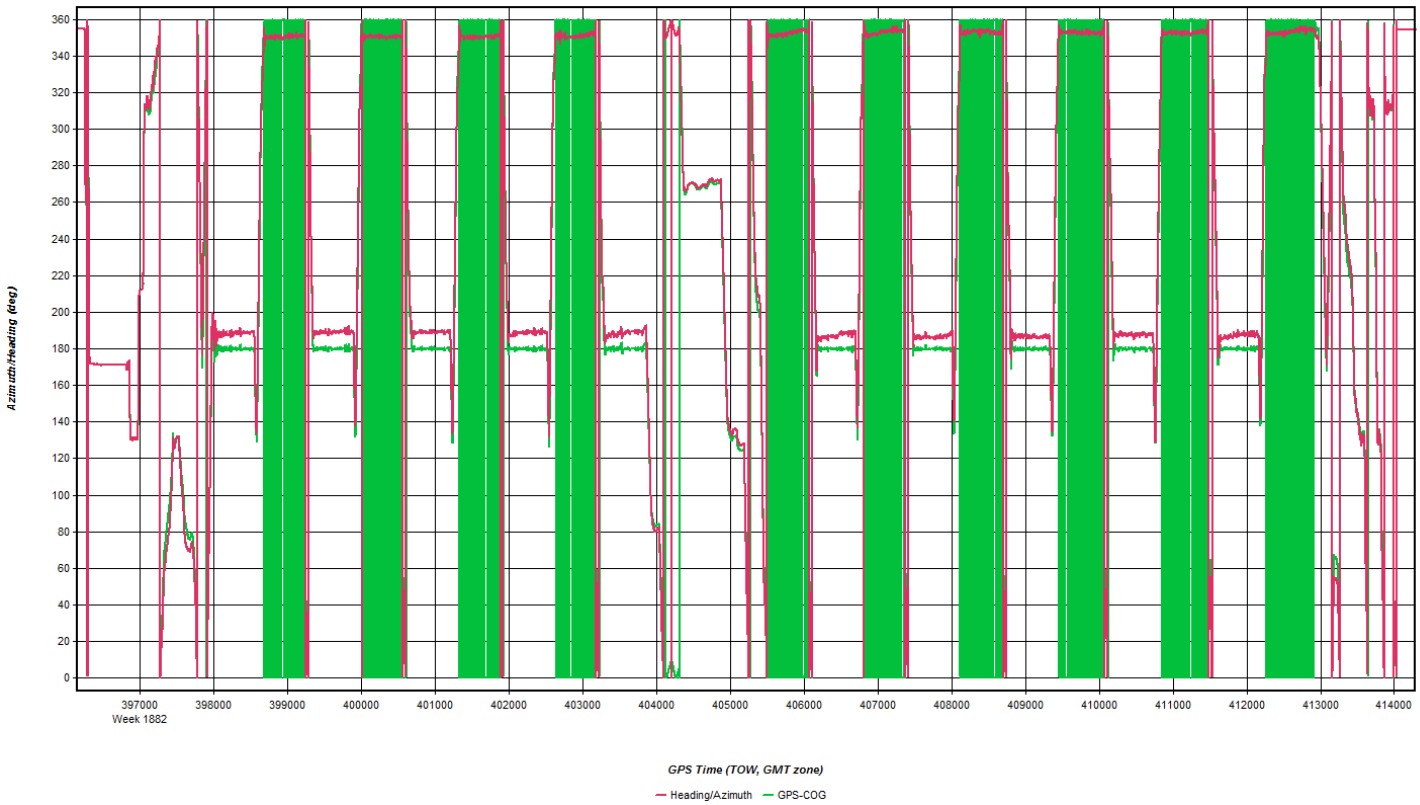
South AOI - State Plane MS East

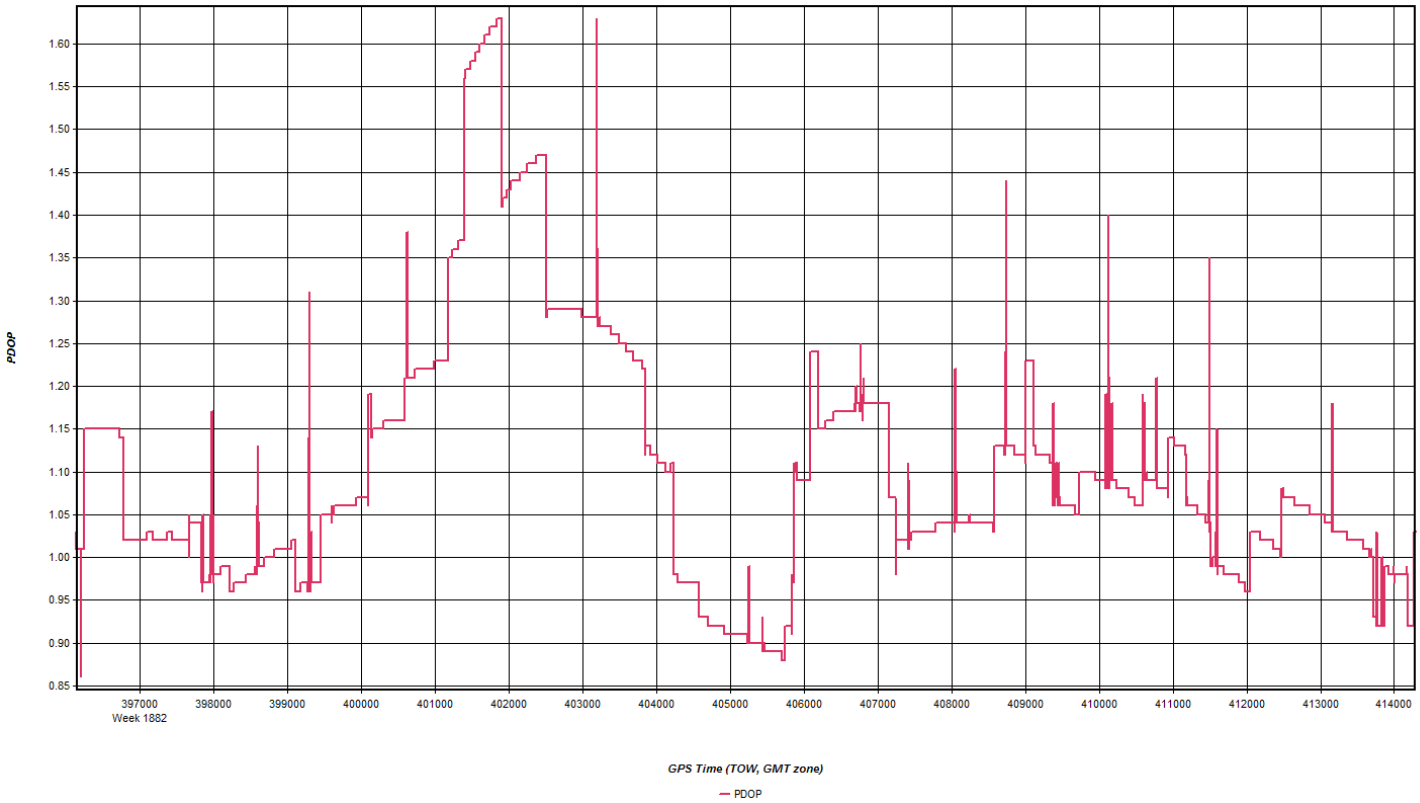
Feb 4, 2016-B (N208NR, SN8227)

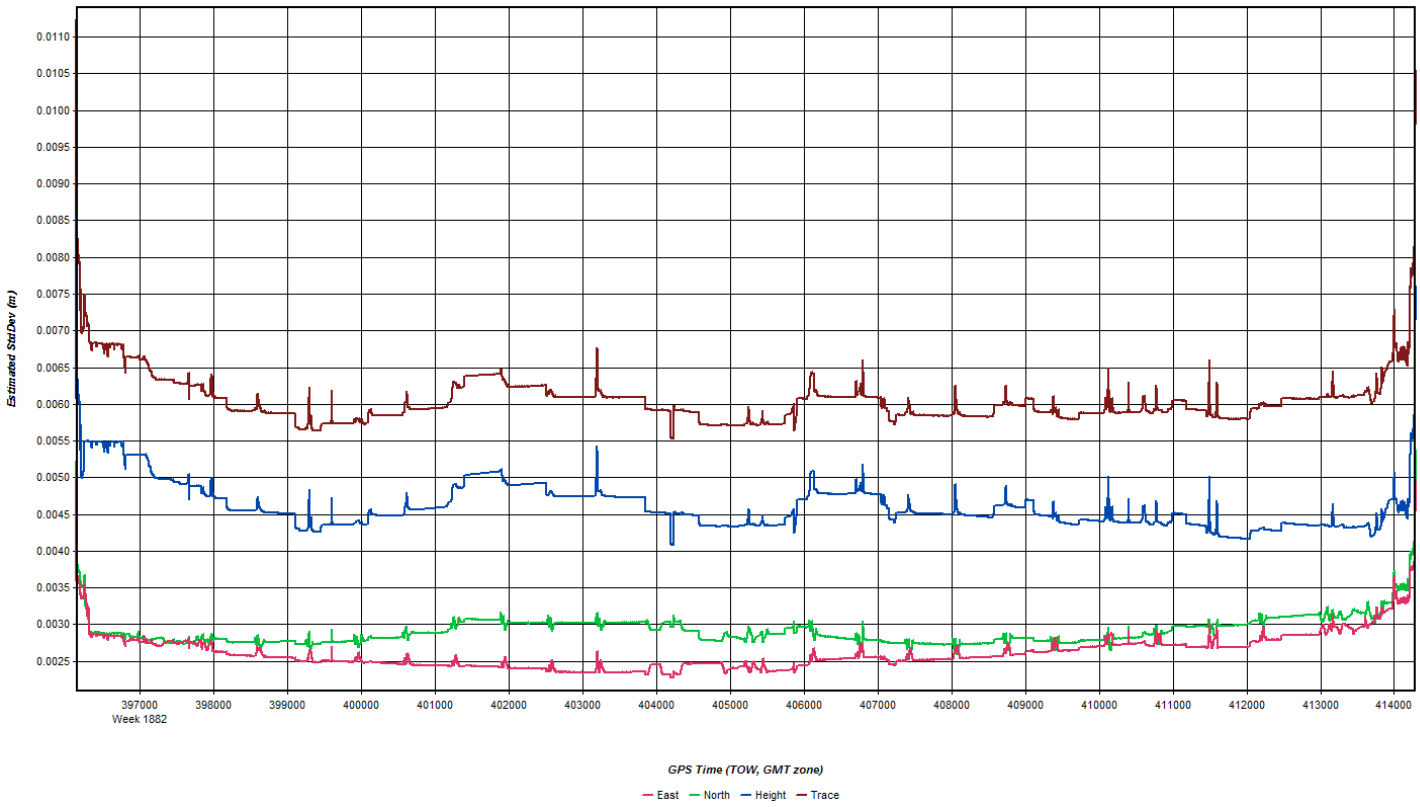

MSHT
MSPK

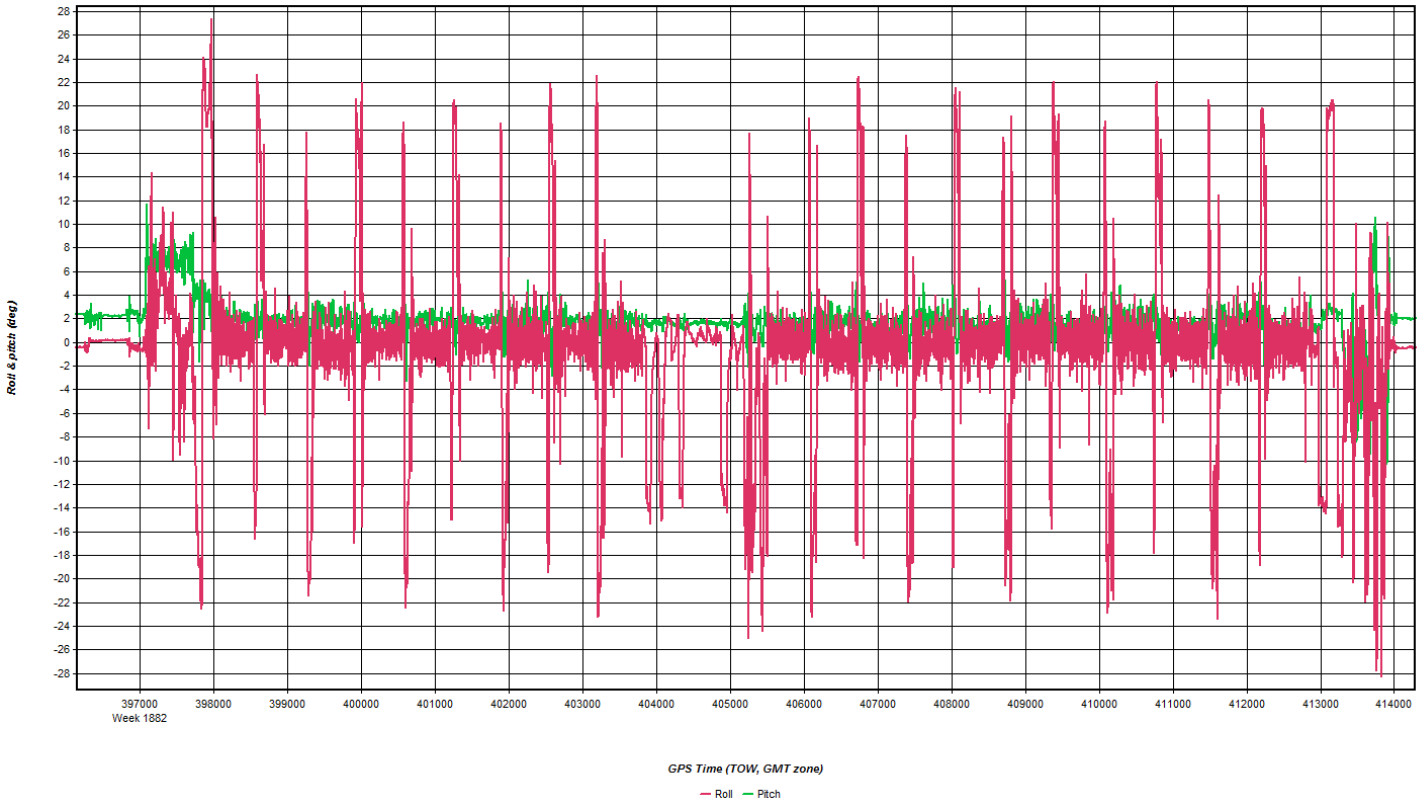

Num Sats
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
397000
Week 1882
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
413000
414000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

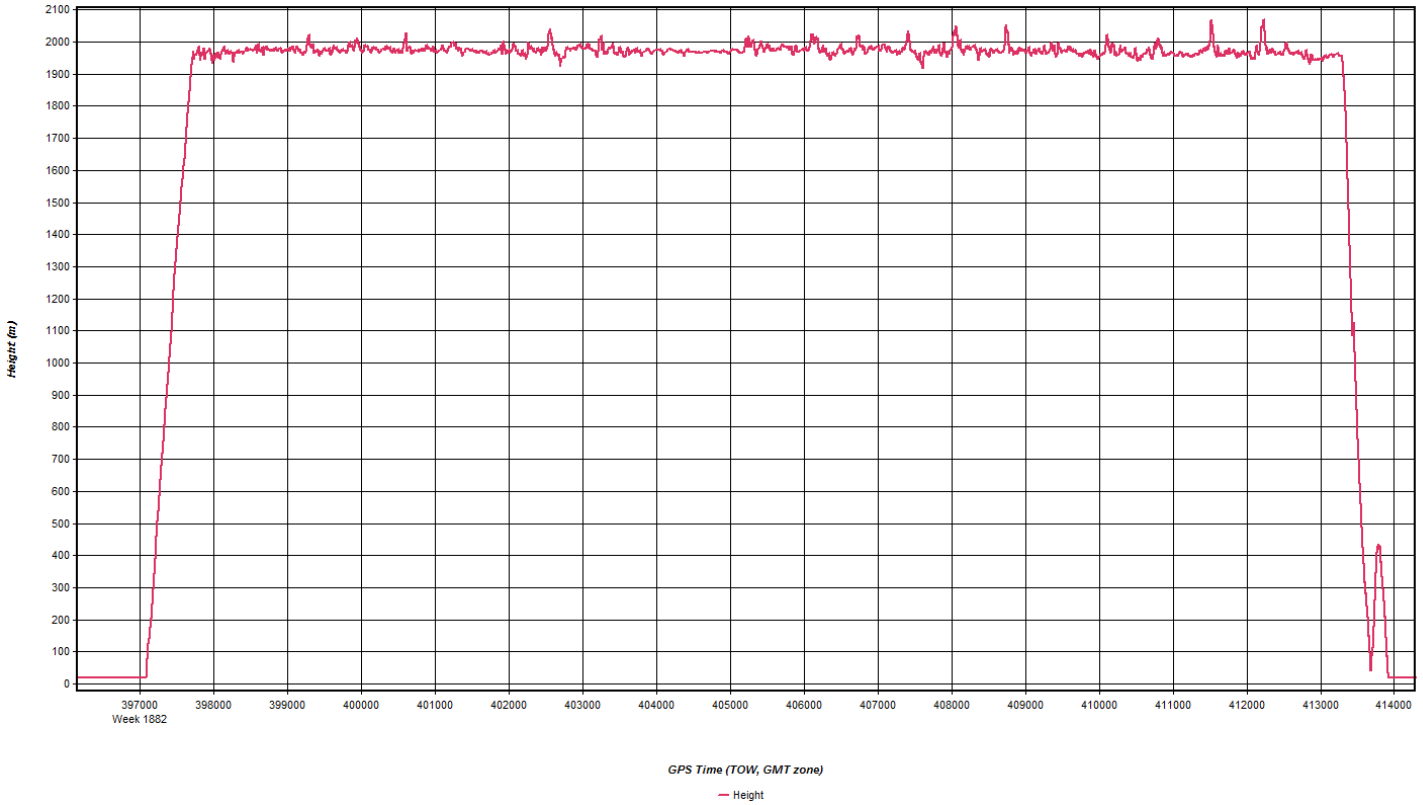

Separation (m)
0.30
0.25
0.20
0.15
0.10
0.05
-0.00
-0.05
-0.10
-0.15
-0.20
-0.25
-0.30
-0.35
-0.40
397000
Week 1882
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
413000
414000
GPS Time (TOW, GMT zone)
East
North
Up

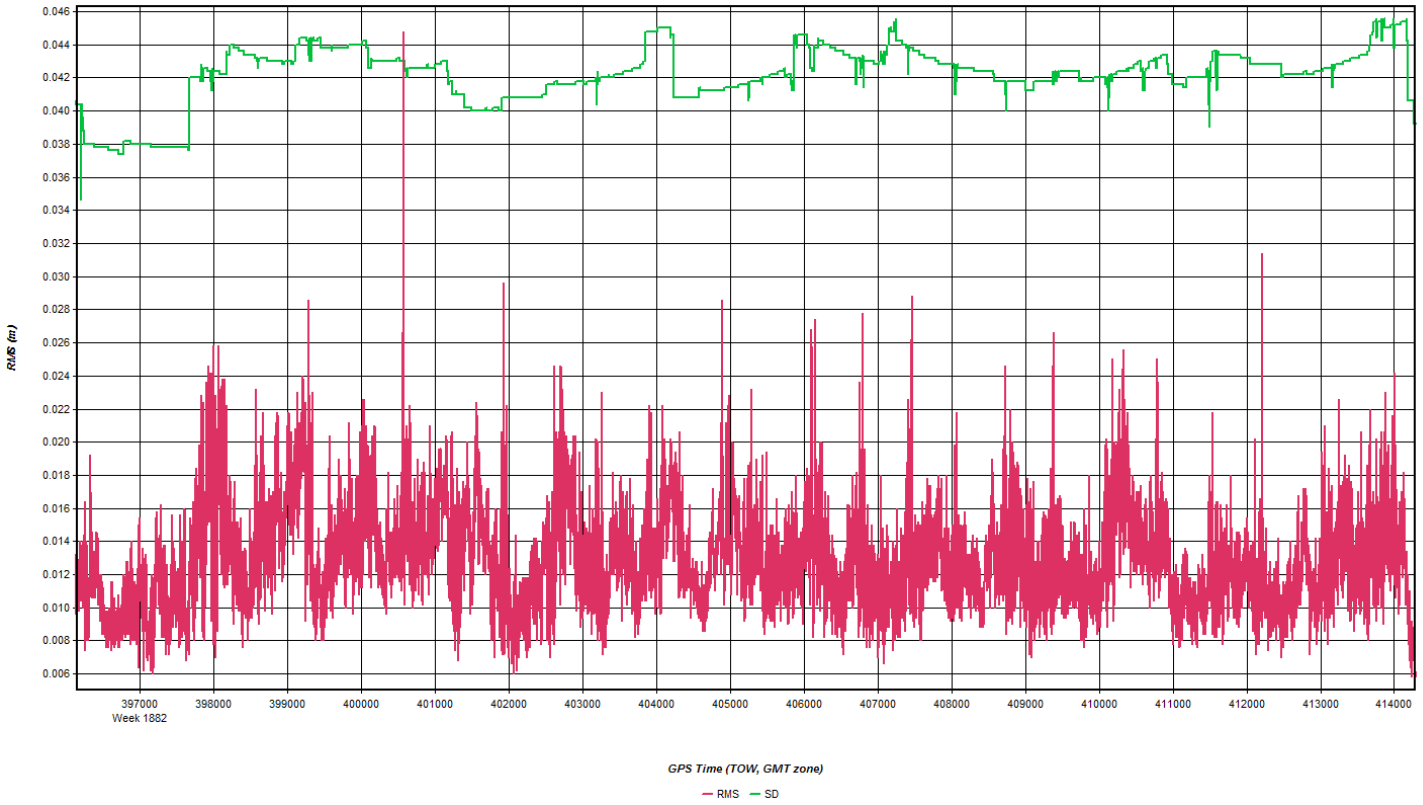

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
397000
Week 1882
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
413000
414000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

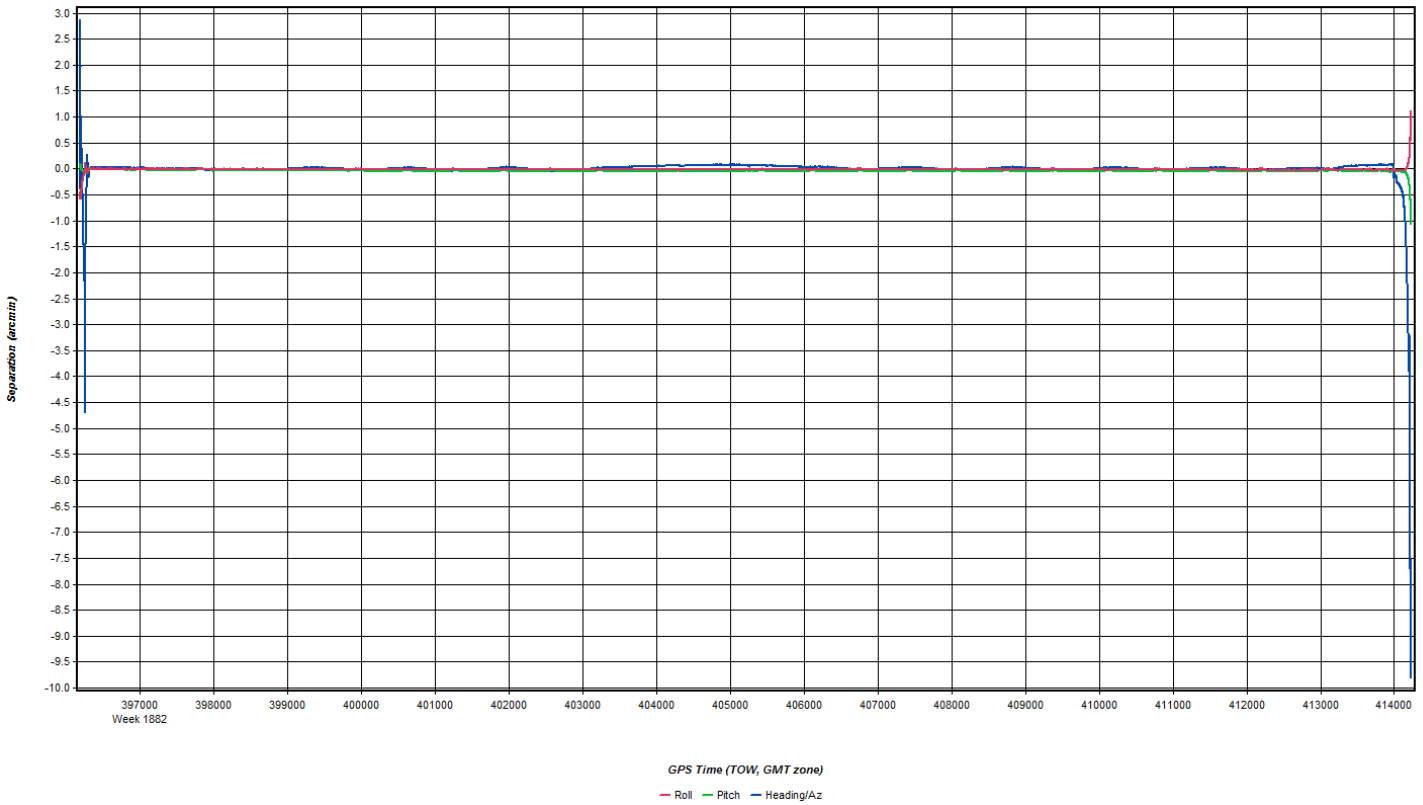

PDOP
1.60
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
0.95
0.90
0.85
397000
Week 1882
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
413000
414000
GPS Time (TOW, GMT zone)
PDOP

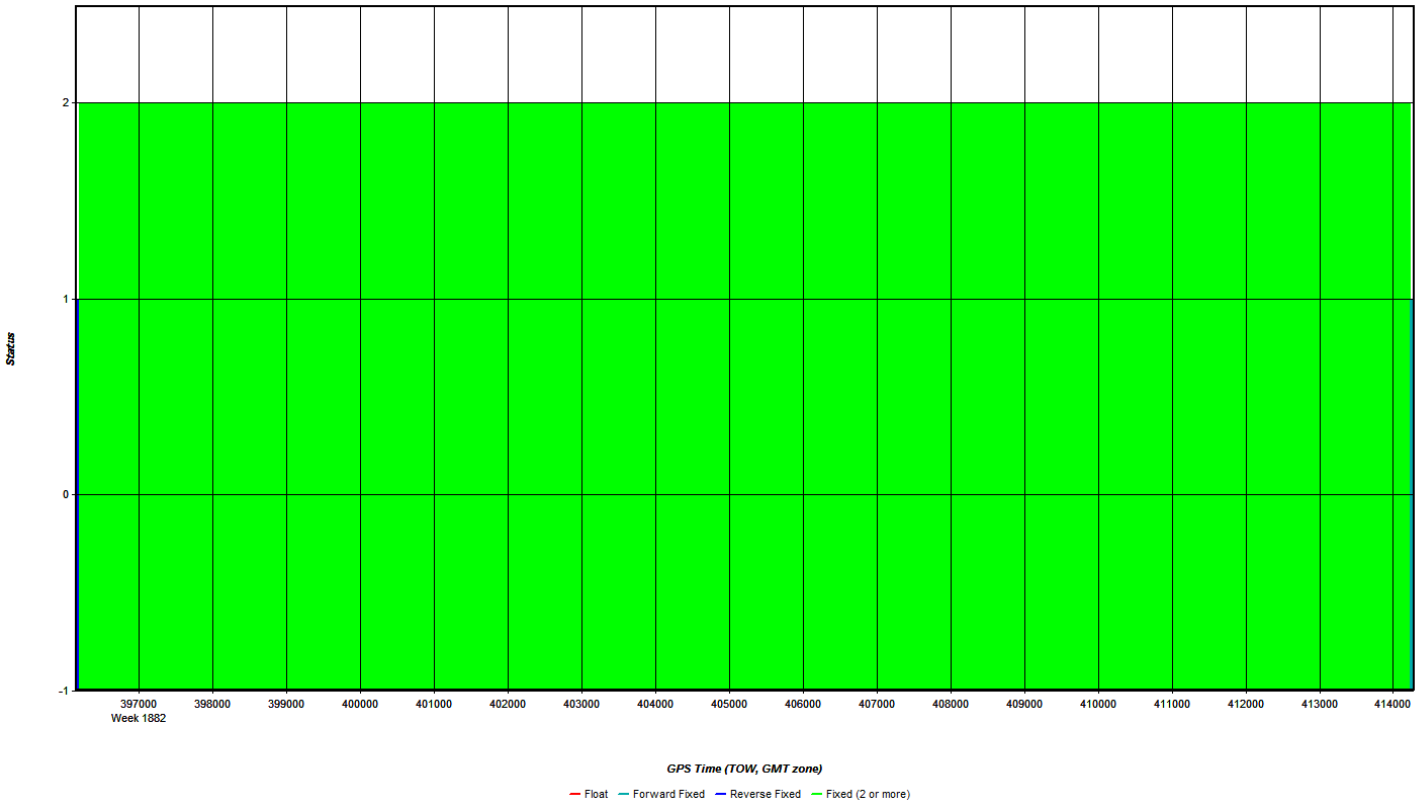

Estimated StdDev (m)
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
0.0025
397000
Week 1882
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
413000
414000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

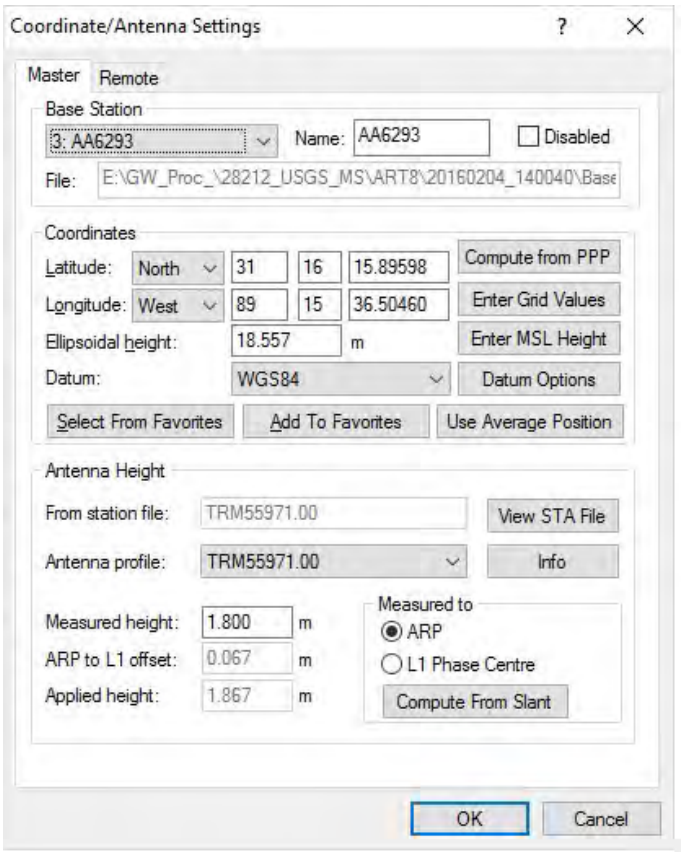

Roll & pitch (deg)
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
-28
397000
Week 1882
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
413000
414000
GPS Time (TOW, GMT zone)
Roll
Pitch

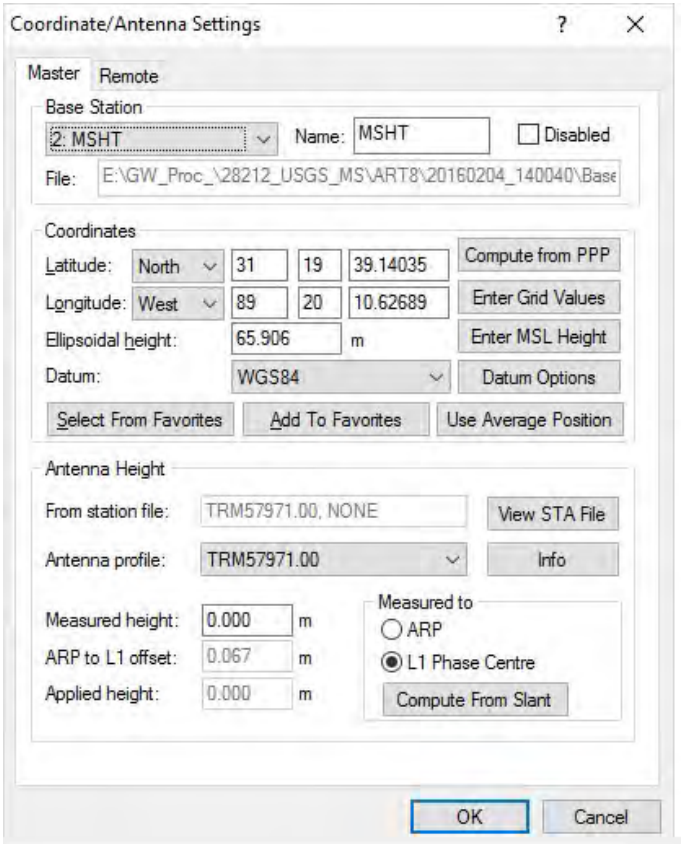

Height (m)
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
397000
Week 1882
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
413000
414000
GPS Time (TOW, GMT zone)
Height

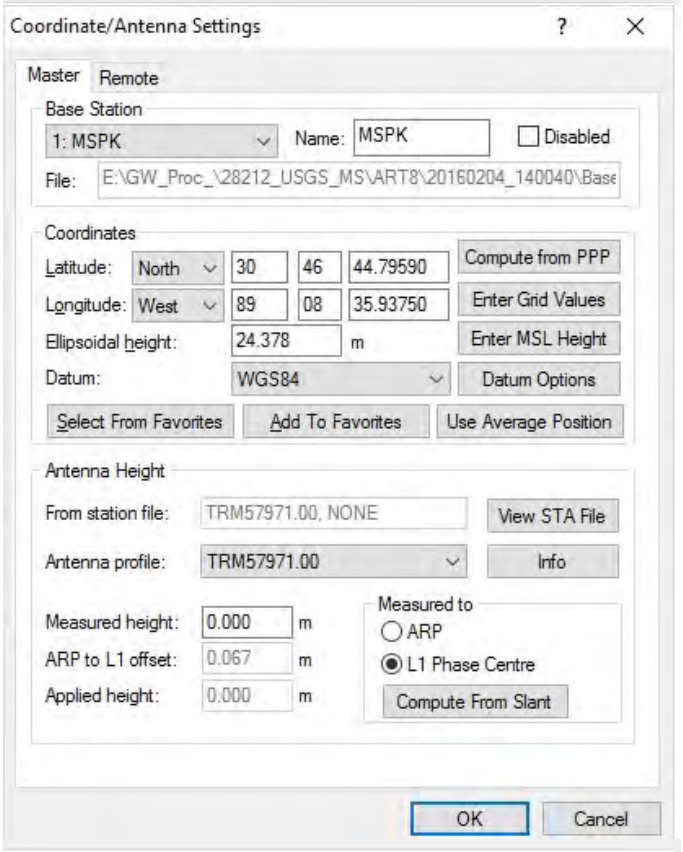

RMS (m)
0.046
0.044
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
397000
Week 1882
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
413000
414000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
-3.0
-3.5
-4.0
-4.5
-5.0
-5.5
-6.0
-6.5
-7.0
-7.5
-8.0
-8.5
-9.0
-9.5
-10.0
397000
Week 1882
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
413000
414000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az

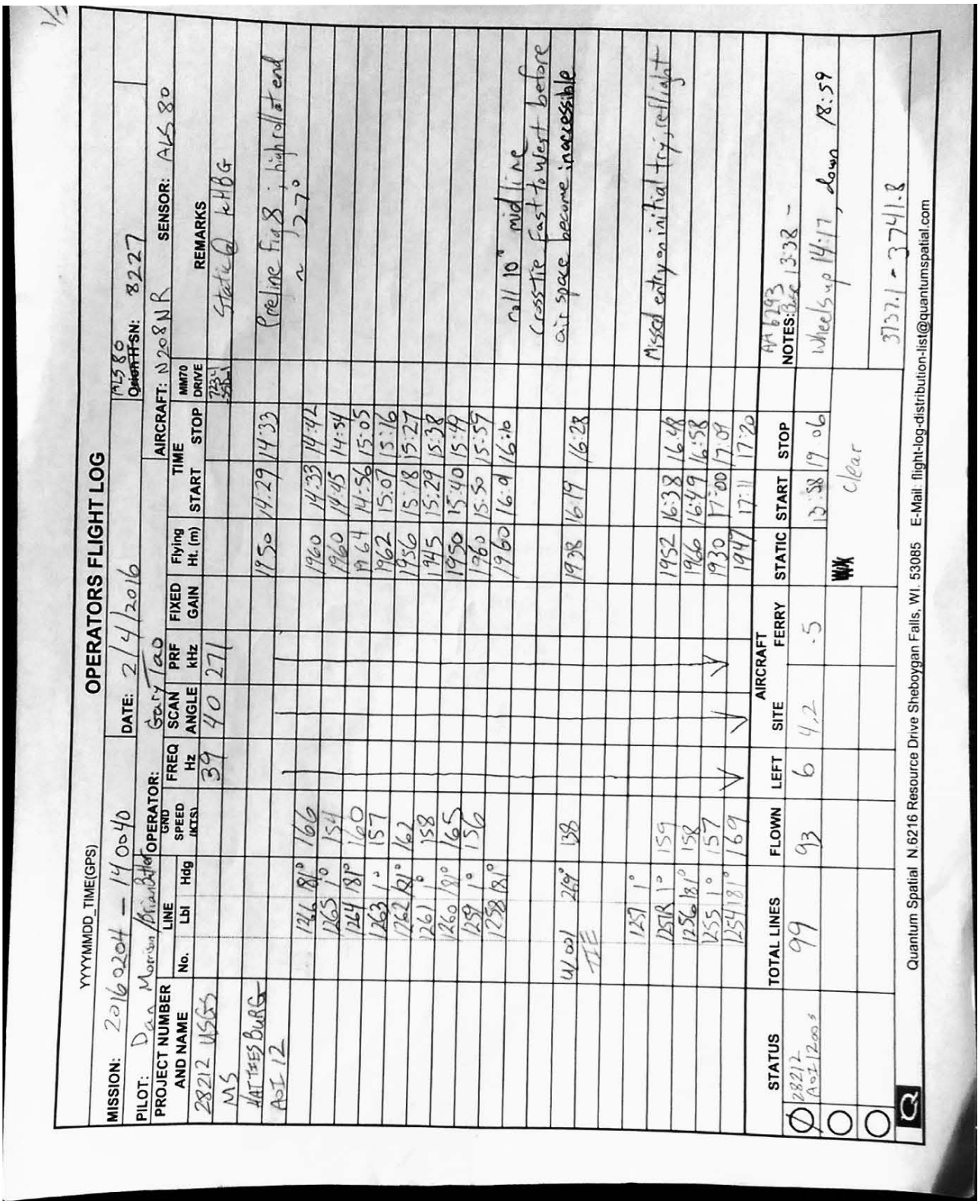

Status
2
1
0
-1
397000
Week 1882
398000
399000
400000
401000
402000
403000
404000
405000
406000
407000
408000
409000
410000
411000
412000
413000
414000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
3: AA6293
Name:
AA6293
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\ART8\20160204_140040\Base
Coordinates
Latitude:
North
31
16
15.89598
Compute from PPP
Longitude:
West
89
15
36.50460
Enter Grid Values
Ellipsoidal height:
18.557
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM55971.00
View STA File
Antenna profile:
TRM55971.00
Info
Measured height:
1.800
m
ARP to L1 offset:
0.067
m
Applied height:
1.867
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel


Coordinate/Antenna Settings
Master
Remote
Base Station
2: MSHT
Name: MSHT
Disabled
File: E:\GW_Proc_\28212_USGS_MS\ART8\20160204_140040\Base
Coordinates
Latitude: North 31 19 39.14035
Longitude: West 89 20 10.62689
Ellipsoidal height: 65.906 m
Datum: WGS84
Compute from PPP
Enter Grid Values
Enter MSL Height
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file: TRM57971.00, NONE
View STA File
Antenna profile: TRM57971.00
Info
Measured height: 0.000 m
ARP to L1 offset: 0.067 m
Applied height: 0.000 m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel


Coordinate/Antenna Settings
Master
Remote
Base Station
1: MSPK
Name: MSPK
Disabled
File: E:\GW_Proc_\28212_USGS_MS\ART8\20160204_140040\Base
Coordinates
Latitude: North 30 46 44.79590
Longitude: West 89 08 35.93750
Ellipsoidal height: 24.378 m
Datum: WGS84
Compute from PPP
Enter Grid Values
Enter MSL Height
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file: TRM57971.00, NONE
View STA File
Antenna profile: TRM57971.00
Info
Measured height: 0.000 m
ARP to L1 offset: 0.067 m
Applied height: 0.000 m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log



OPERATORS FLIGHT LOG

YYYYMMDD_TIME(GPS)

MISSION: 20160204 – 140040 DATE: 2/4/2016 1458 CHART SN: 8227

PILOT: Dan Morrison/Brian Bilodeau OPERATOR: Gary Tao AIRCRAFT: N208NR SENSOR: AL580

PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS
28212 USGS MS HATTIESBURG AST 12					39	40	271						Static@ KHBG
									1850	14:29	14:33		Pipeline Fig 8 ; high roll at end ~ 27°
	136	81°	166						1960	14:33	14:42		
	165	1°	154						1960	14:45	14:54		
	164	181°	160						1964	14:56	15:05		
	163	1°	157						1962	15:07	15:16		
	162	181°	162						1956	15:18	15:27		
	161	1°	158						1945	15:29	15:38		
	160	181°	165						1950	15:40	15:49		
	159	1°	156						1960	15:50	15:59		
	158	181°							1960	16:9	16:16		
													all 10° mid line
													crosstie fast to west before
													air space become inaccessible
	W 001	269°	138						1938	16:19	16:28		
	TIE												
	157	1°											
	157R	1°	159						1952	16:38	16:48		Missed entry on initial try, refly it
	156	181°	158						1966	16:49	16:58		
	155	1°	157						1930	17:00	17:09		
	154	181°	169						1947	17:11	17:20		

STATUS	TOTAL LINES	FLOWN	AIRCRAFT LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	NOTES
28212 Ast 12005	99	93	6	4.2	.5		13:38	19:06	NAD83 Base 13:38 – Wheels up 14:17, down 18:59
						WX	clear		
									3737.1 – 3741.8

Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI. 53085 E-Mail: flight-log-distribution-list@quantumspatial.com

2/2

YYYYMMDD_TIME(GPS)

OPERATORS FLIGHT LOG

MISSION: 20160204 - 140040 DATE: 2/04/2016 AL580 Orion H SN: 8227

PILOT: Dan Morrison/Brian Butler OPERATOR: Gary Tao AIRCRAFT: N208NR SENSOR: ~~ALS~~ 80

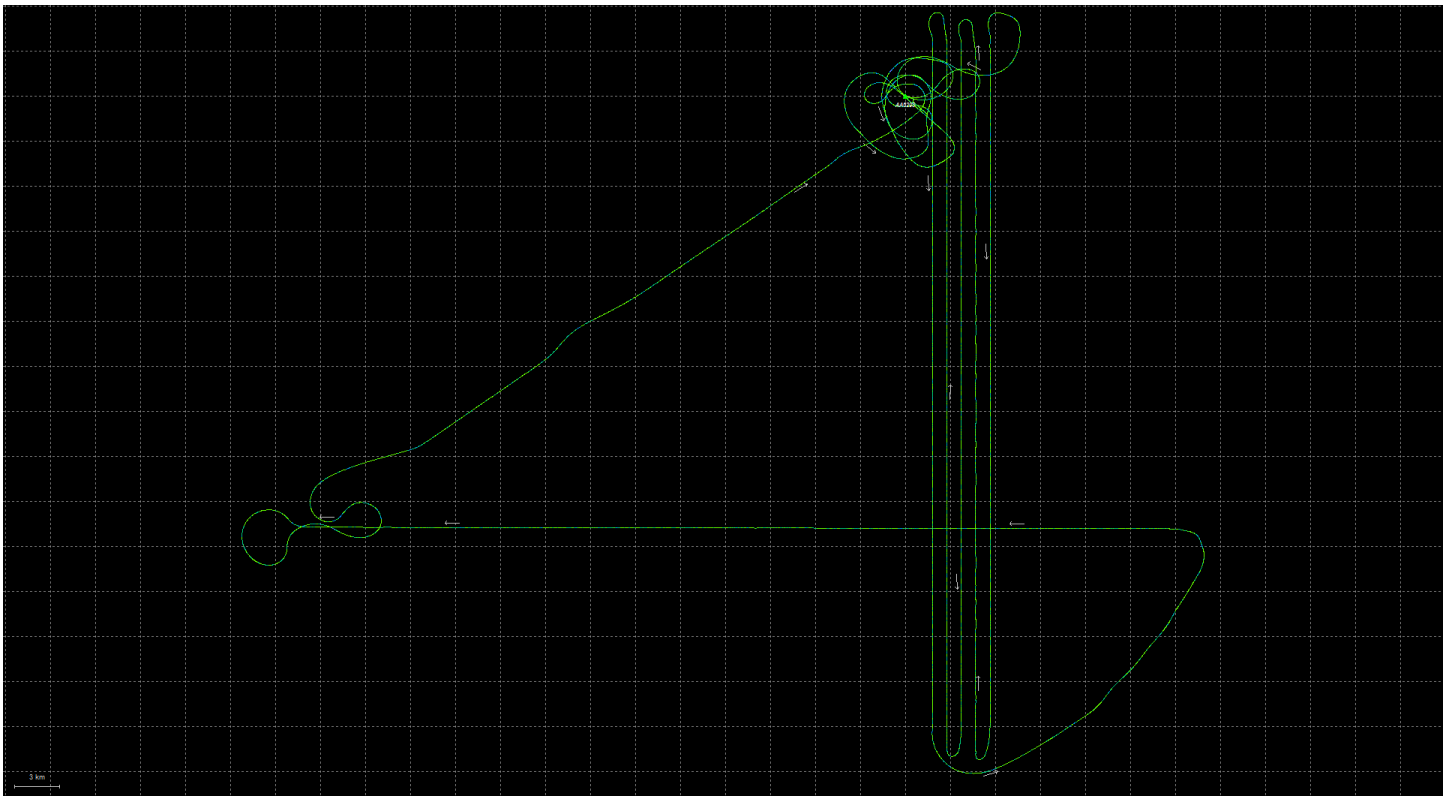
PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS
28212		1253	1°	156	39	40	271		1933	17:22	17:31		
USGS_MS		1252	181°	169					1963	17:33	17:42		
Block 12		1251	1°	150					1930	17:44	17:54		
Hattiesburg		1250	181°	169					1925	17:56	18:06		
		1249	1°	149					1920	18:08	18:18		
		1248	181°	169					1930	18:20	18:29		
		1247	1°	146					1952	18:31	18:41		
									1930	18:43	18:48		Post line Fig 8
													RTB KHBG
													28° roll into landing

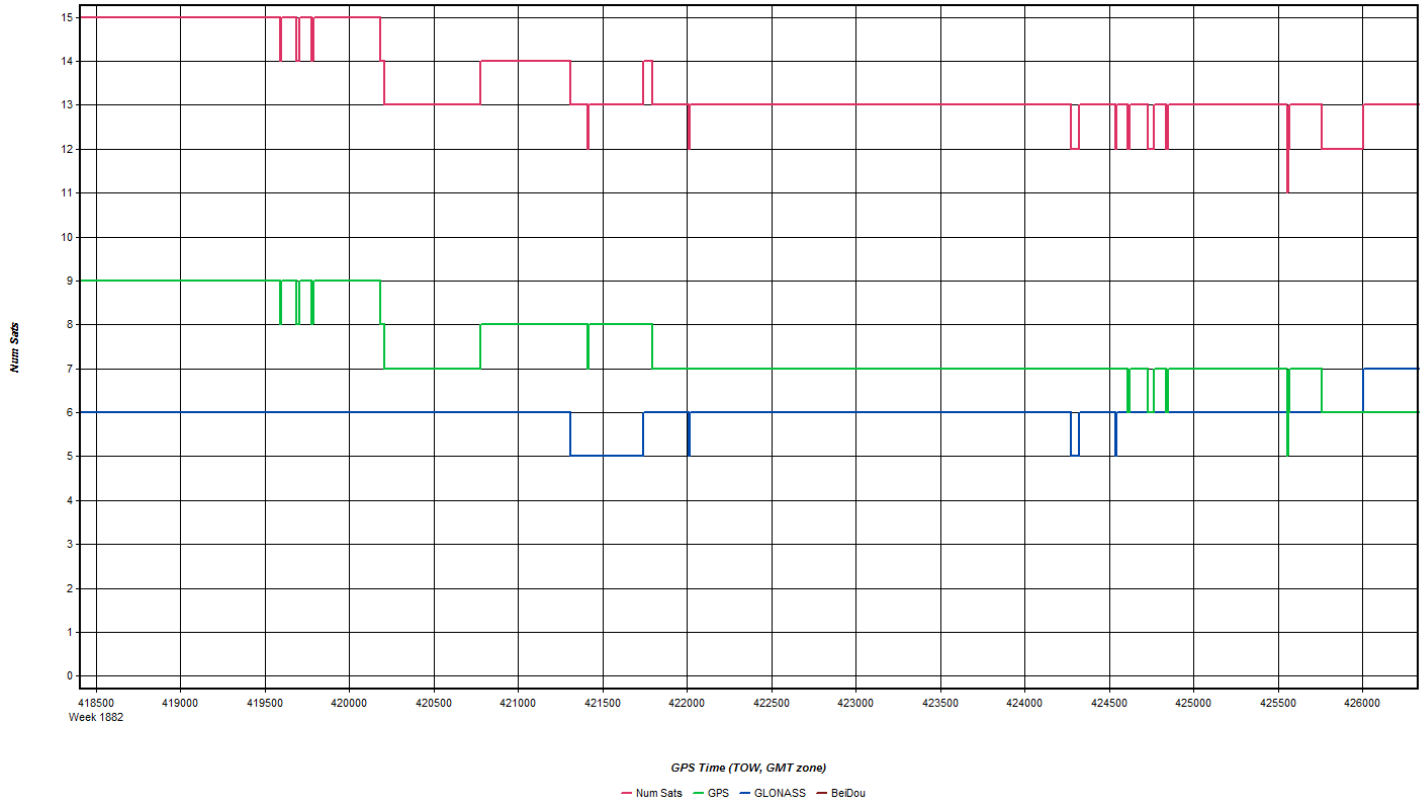
STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	NOTES:
∅ 28212 Acq 12 bos	99	93	6	4.2	.5				
○						WX Clear			See Page 1
○									

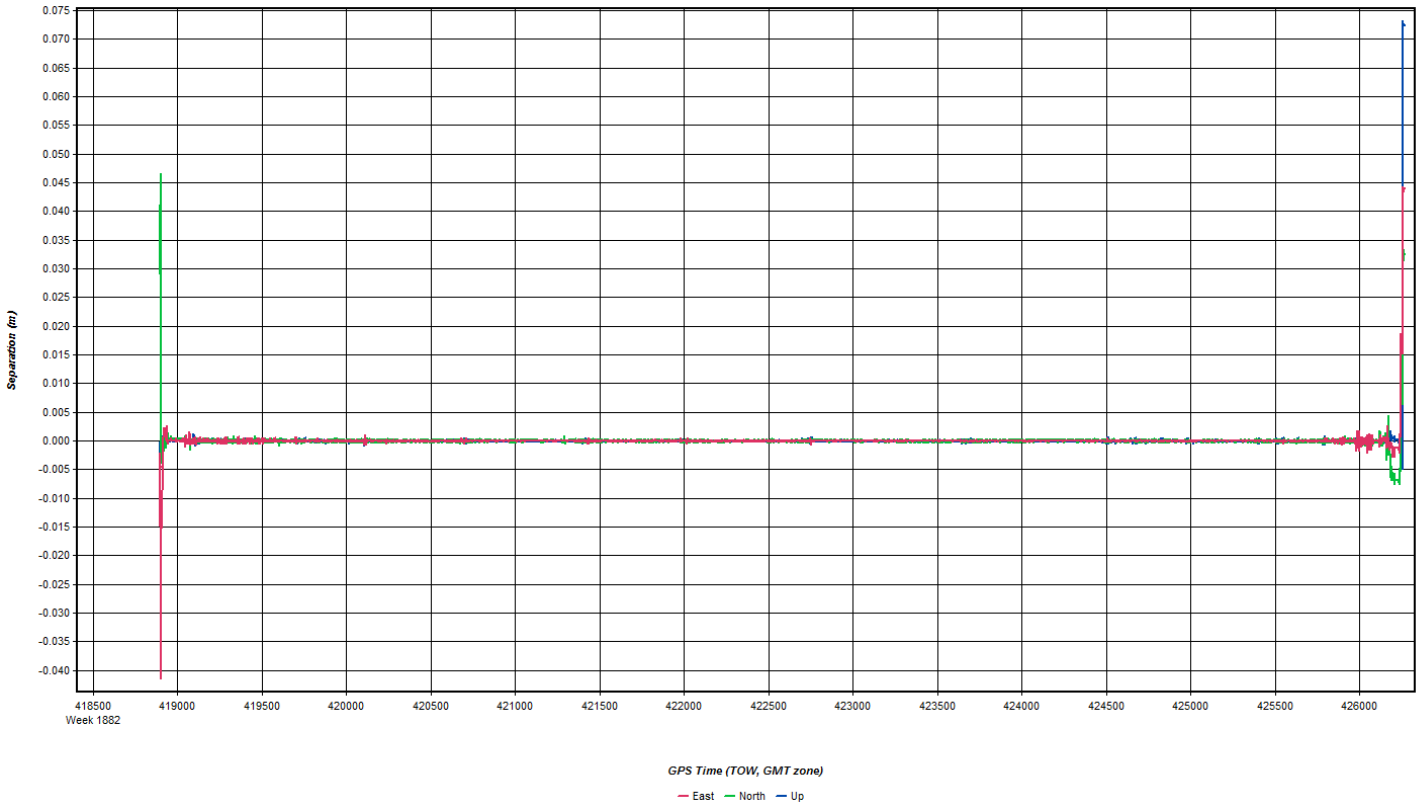
Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI. 53085 E-Mail: flight-log-distribution-list@quantumspatial.com

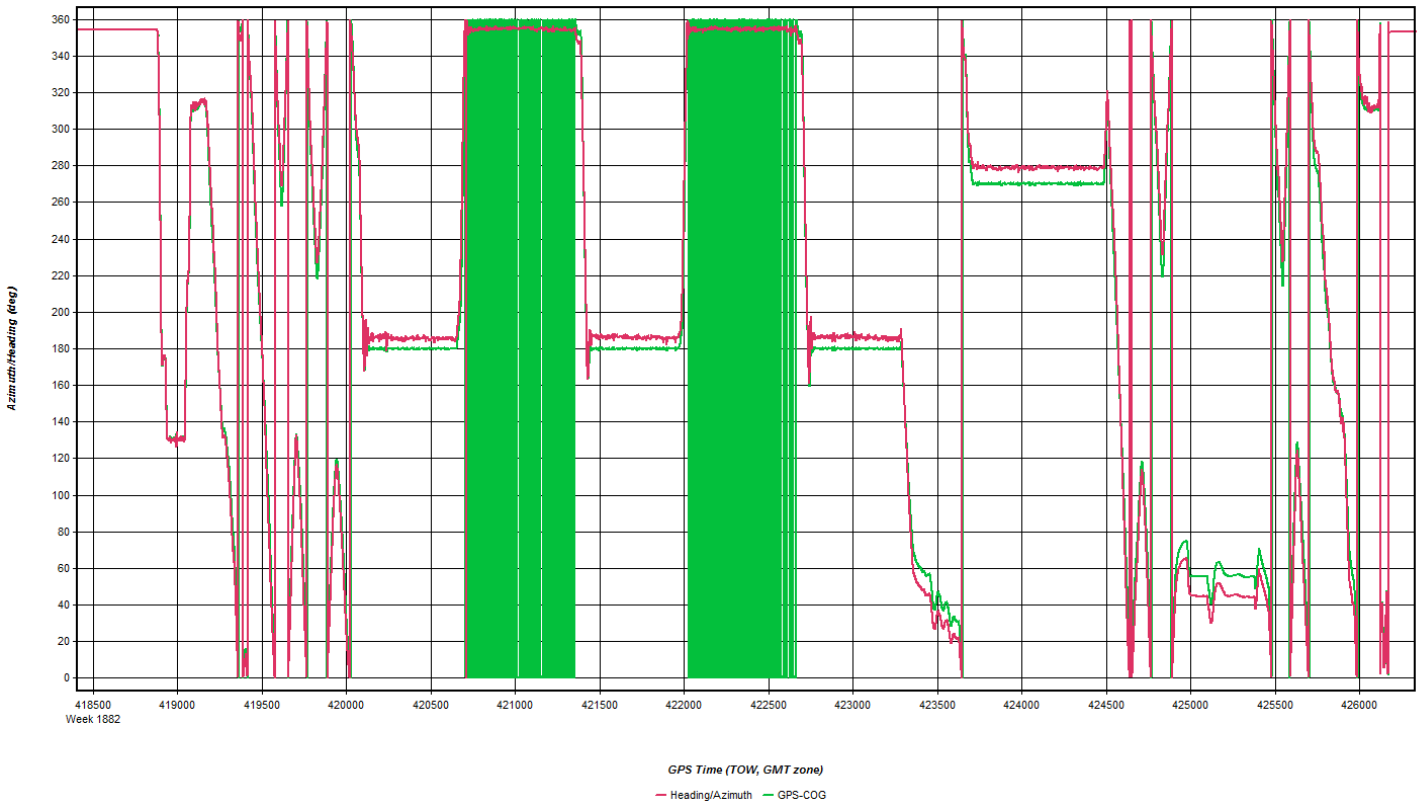
South AOI - State Plane MS East

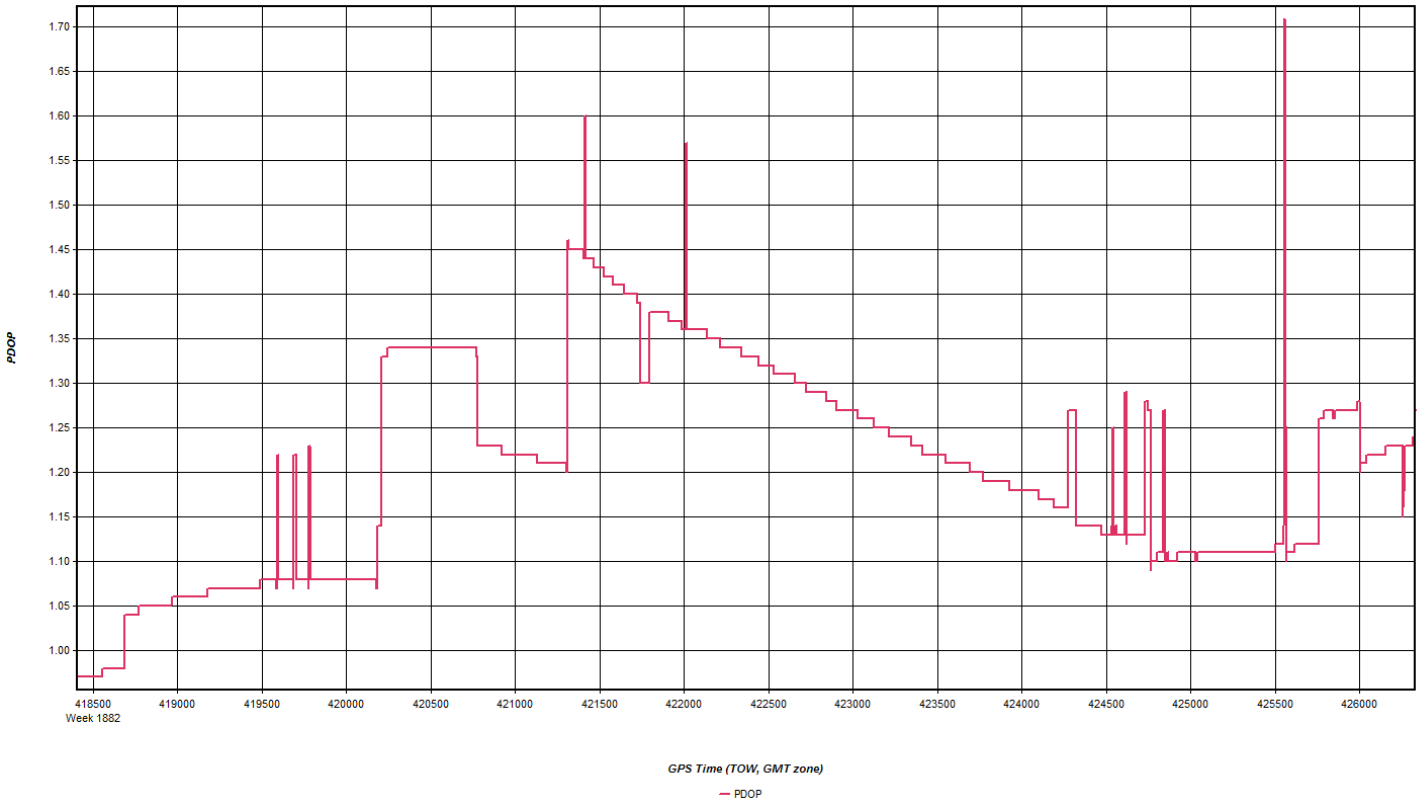
Feb 4, 2016-C (N208NR, SN8227)

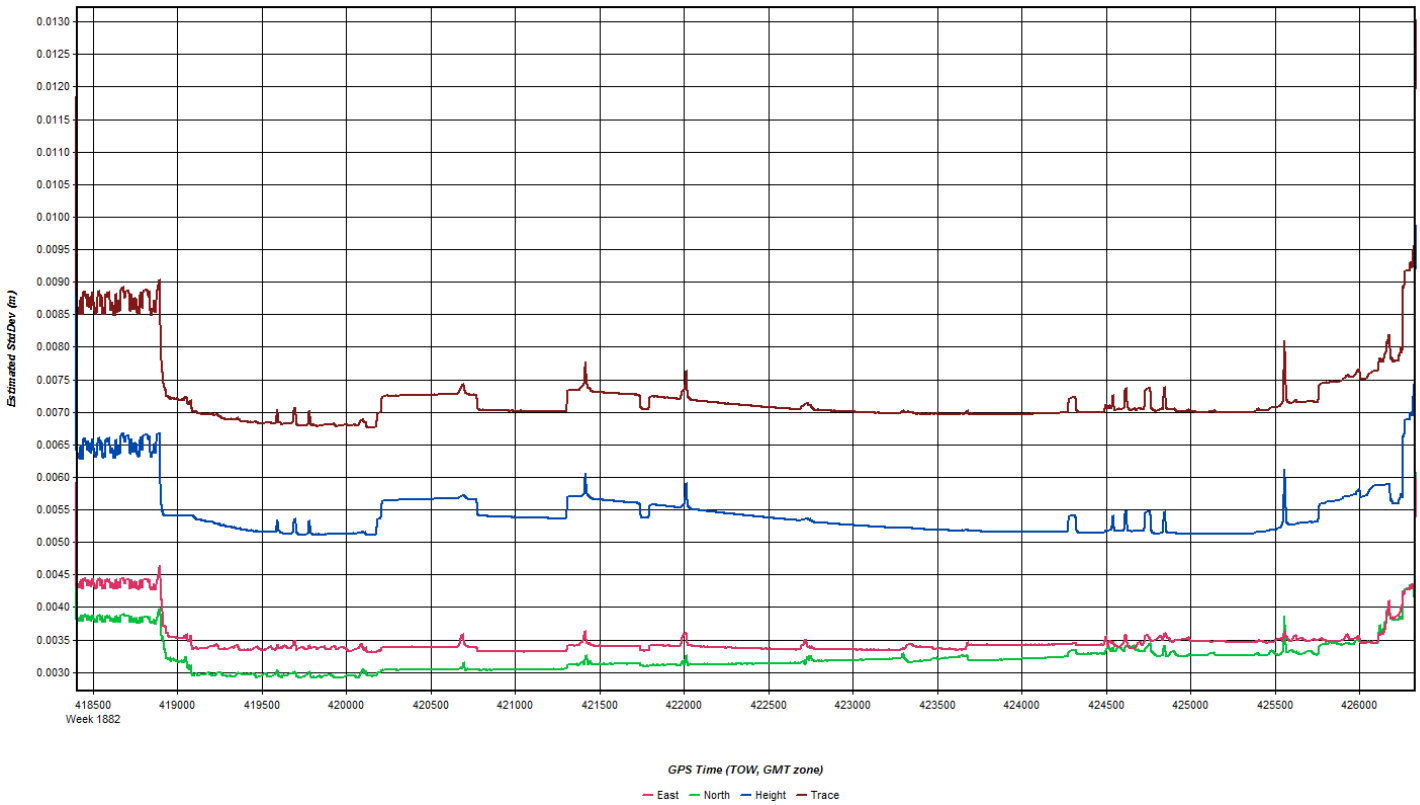



Num Sats
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
418500
Week 1882
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
424500
425000
425500
426000
GPS Time (TOW, GMT zone)
Num Sats
GPS
GLONASS
BeiDou

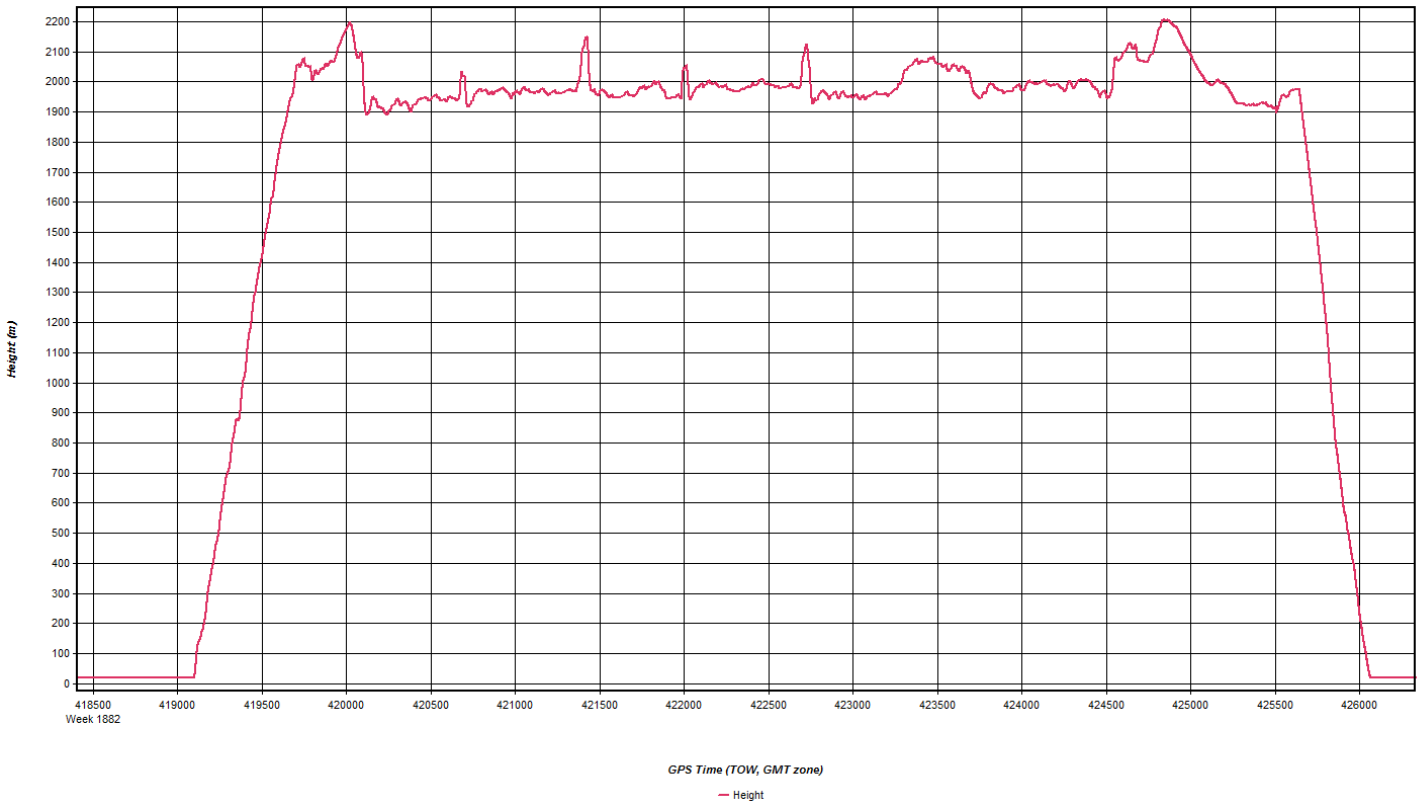

Separation (m)
0.075
0.070
0.065
0.060
0.055
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
-0.010
-0.015
-0.020
-0.025
-0.030
-0.035
-0.040
418500
Week 1882
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
424500
425000
425500
426000
GPS Time (TOW, GMT zone)
East
North
Up

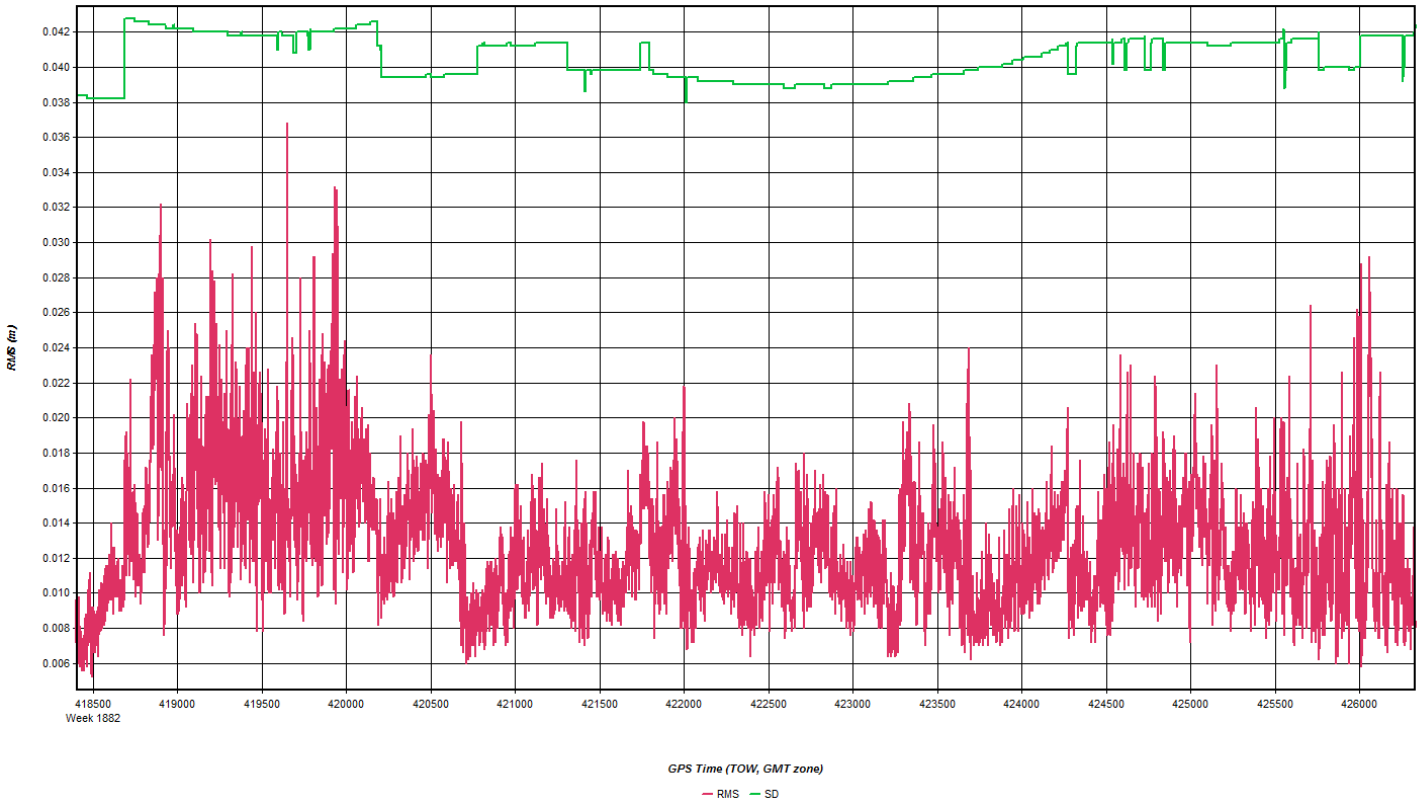

Azimuth/Heading (deg)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
418500
Week 1882
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
424500
425000
425500
426000
GPS Time (TOW, GMT zone)
Heading/Azimuth
GPS-COG

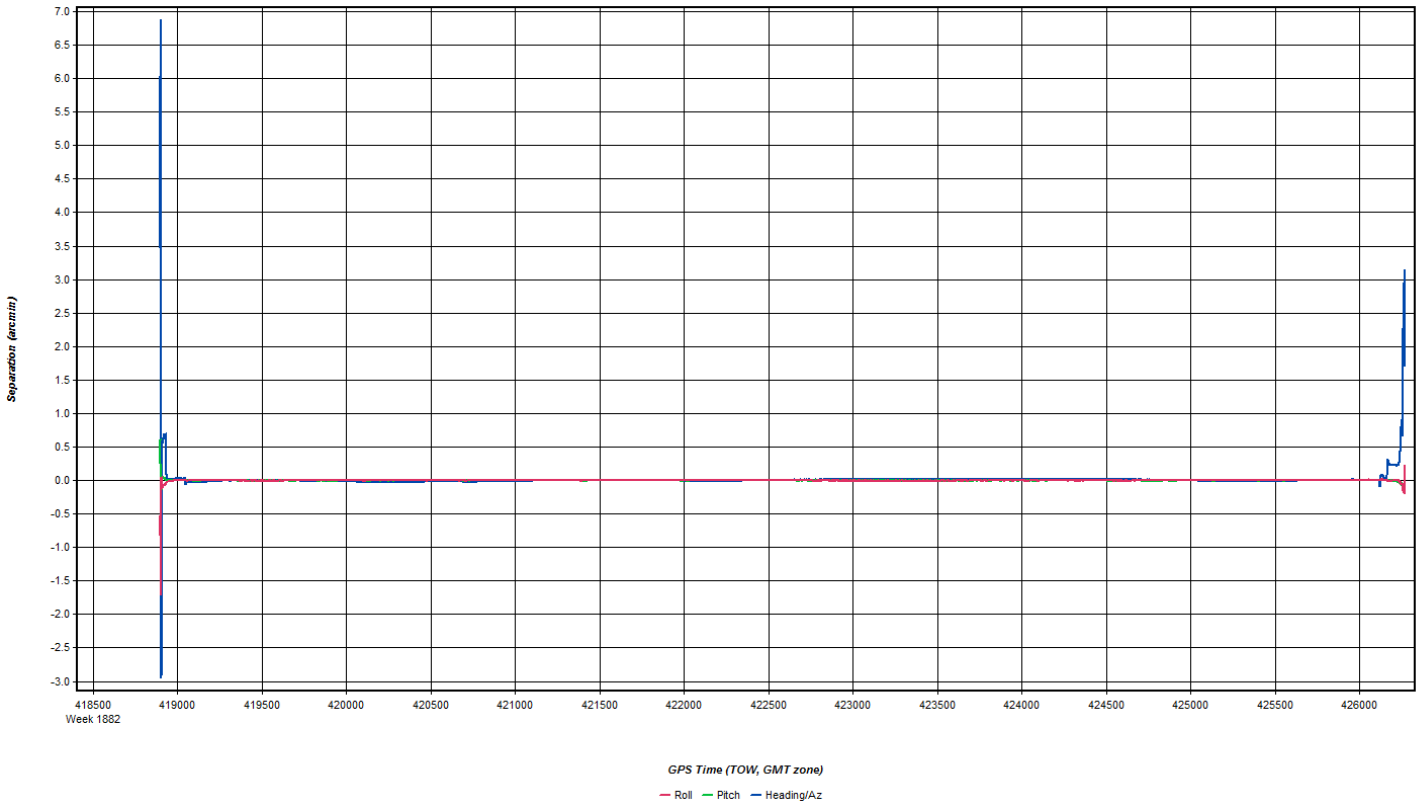

PDOP
1.70
1.65
1.60
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
418500
Week 1882
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
424500
425000
425500
426000
GPS Time (TOW, GMT zone)
PDOP

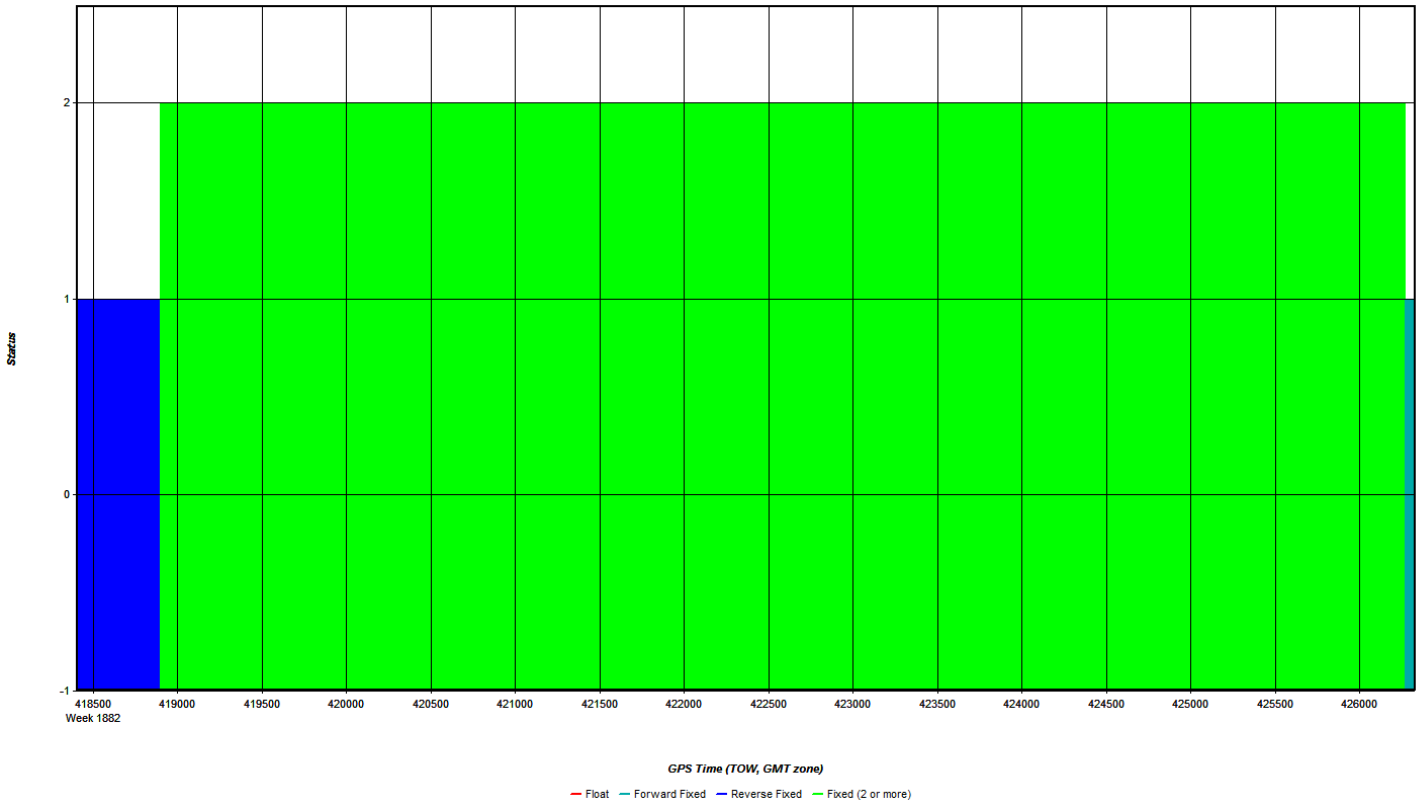

Estimated StdDev (m)
0.0130
0.0125
0.0120
0.0115
0.0110
0.0105
0.0100
0.0095
0.0090
0.0085
0.0080
0.0075
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
418500
Week 1882
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
424500
425000
425500
426000
GPS Time (TOW, GMT zone)
East
North
Height
Trace

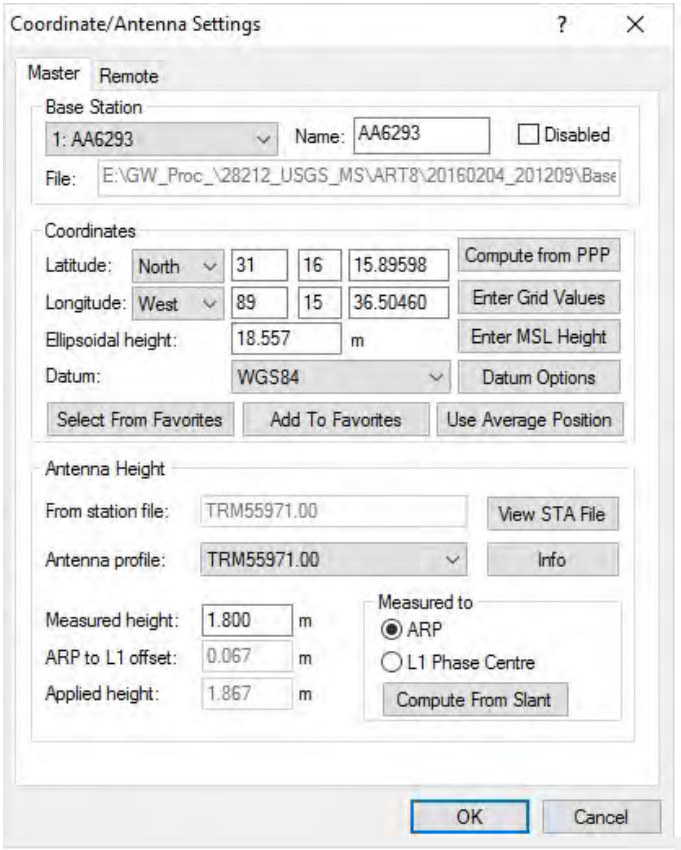

Roll & pitch (deg)
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
418500
Week 1882
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
424500
425000
425500
426000
GPS Time (TOW, GMT zone)
Roll
Pitch


Height (m)
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
418500
Week 1882
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
424500
425000
425500
426000
GPS Time (TOW, GMT zone)
Height


RMS (m)
0.042
0.040
0.038
0.036
0.034
0.032
0.030
0.028
0.026
0.024
0.022
0.020
0.018
0.016
0.014
0.012
0.010
0.008
0.006
418500
Week 1882
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
424500
425000
425500
426000
GPS Time (TOW, GMT zone)
RMS
SD


Separation (arcmin)
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
-3.0
418500
Week 1882
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
424500
425000
425500
426000
GPS Time (TOW, GMT zone)
Roll
Pitch
Heading/Az


Status
2
1
0
-1
418500
Week 1882
419000
419500
420000
420500
421000
421500
422000
422500
423000
423500
424000
424500
425000
425500
426000
GPS Time (TOW, GMT zone)
Float
Forward Fixed
Reverse Fixed
Fixed (2 or more)


Coordinate/Antenna Settings
Master
Remote
Base Station
1: AA6293
Name:
AA6293
Disabled
File:
E:\GW_Proc_\28212_USGS_MS\ART8\20160204_201209\Base
Coordinates
Latitude:
North
31
16
15.89598
Compute from PPP
Longitude:
West
89
15
36.50460
Enter Grid Values
Ellipsoidal height:
18.557
m
Enter MSL Height
Datum:
WGS84
Datum Options
Select From Favorites
Add To Favorites
Use Average Position
Antenna Height
From station file:
TRM55971.00
View STA File
Antenna profile:
TRM55971.00
Info
Measured height:
1.800
m
ARP to L1 offset:
0.067
m
Applied height:
1.867
m
Measured to
ARP
L1 Phase Centre
Compute From Slant
OK
Cancel

Flight Log



OPERATORS FLIGHT LOG

YYYYMMDD_TIME(GPS)

MISSION: 20160204 - 20 1809 DATE: 2/4/16 LEICA ALS 60 SN

PILOT: Travis Peden OPERATOR: Colin Wait AIRCRAFT: 208 NR SENSOR: 8007

PROJECT NUMBER AND NAME	LINE No.	LINE Lbl	LINE Hdg	GND SPEED (KTS)	FREQ Hz	SCAN ANGLE	PRF kHz	FIXED GAIN	Flying Ht. (m)	TIME START	TIME STOP	MM70 DRIVE	REMARKS
USGS MS		046	181	160	39	40	271	255	6410	2041	2050		KHBG take off
24212		045	01	139					6450	2052	2102		Up to altitude then
		1044	181	161					6490	2103	2112		Go to box base
		1043	01	143					6480	2113	2103		Turn into lines starting
		1042	181	164					6430	2125	2134		with 246
		1045	181	146					6480	2142	2154		After cross, fly 8
													then Ap & over
													KHBG then landed
													Plane Drive
													SN - 8007-D

STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE	AIRCRAFT FERRY	STATIC	START	STOP	NOTES:
○ IMU Back	99			1.3	0.6				
○	Online:	1446		Offline: 1600		WX Clear, Windy			
○	WU: 1424	WD:							

Quantum Spatial N.6216 Resource Drive Sheboygan Falls, WI. 53085 PHONE: 920-467-2655 FAX: 888-253-6695 E-Mail: amephoto@aerometric.com

Appendix B

Survey Report

April 15, 2016

Survey Report of
LiDAR Calibration & Quality Control Points

BAA MS_Tishoming LiDAR_2016_B16
USGS Contract: G16PD00327
USGS Task Order: G16PC00016

Presented to:

USGS
science for a changing world

Presented By:

Control Survey Report

BAA MS_Tishoming LiDAR_2016_B16
USGS Contract: G16PD00327
USGS Task Order: G16PC00016

USGS/NGTOC
1400 Independence Road
Rolla, Missouri 65401
For
LiDAR Calibration & Quality Control Points

I. Survey Report Summary

II. Final Coordinate Listing

III. Data Log Sheets

I. Survey Report Summary

Introduction

Quantum Spatial, Inc was contracted by USGS under task order G16PD00327 to Survey LiDAR calibration and quality control points in support of BAA MS_Tishoming LiDAR_2016_B16 Mississippi. This is the report of the technical approach used and detail of each point surveyed.

Project Area

The Project Area, shown in the figure below, consists of approximately 3,825 square miles with 59 Calibration Points in the North Site and 38 Calibration Points in the South Site.

See Maps (page 9 and page 15)

Technical Approach to Land Cover Validation Point Selection

Referencing ASPRS Positional Accuracy Standards for Digital Geospatial Data (Edition 1, Version 1.0, - November, 2014) table C.1 Recommended Number of Checkpoints based on Area, Quantum Spatial calculated that 99 Non-Vegetated Vertical Assessment (NVA) and 75 Vegetated Vertical Assessment (VVA) points are required for this project area.

To ensure that checkpoints were distributed generally proportionate among the various vegetated land cover types, Quantum Spatial used existing USGS Land Cover data to divide both the NVA and VVA categories among the various types, calculating the approximate number of required points in each representative type proportionate to the total project area. The resulting point classes are detailed below:

NVA Class	# of Points	
Site	N	S
Bare Earth	38	29
Urban Area	18	14

VVA Class	# of Points	
Site	N	S
Forested	23	19
Shrubs	6	9
Tall Weeds	11	7

Quantum Spatial has adopted the philosophy that each vegetative class must be well distributed throughout the project area. While points in varying classes may be near to one another, points of a single vegetative class may not. Proposed point locations are selected with this distribution methodology in mind.

Survey Accuracy Requirements

Given that the survey accuracy of calibration and quality control check points should be 3 times more accurate than the required accuracy of the data set, Quantum Spatial requires that calibration and NVA points to be better than 3 centimeters, both horizontally and vertically, and that VVA points be better than 5 centimeters, both horizontally and vertically. The surveyed accuracy of each point must be determined through redundant measurements and/or network adjustment using procedures and methodologies that reliably and consistently result in the aforementioned accuracies. The accuracy of each point is reported at the 95% confidence level, meaning that if the point were measured 20 times, statistically it would fall within the reported accuracy 19 times.

Due to variances in reference control accuracy and adjustment, Quantum Spatial requires that the survey methodology used be explained, so that it can be repeated if necessary.

Field Survey Methodology

Date Range:
March-15-2016 to March -23-2016

Equipment Used:
Trimble R8 dual frequency GNSS receivers and a Leica GS15 and a Topcon GPT-3005SLW 4J0703 Total Station and a Trimble M3 DR 2 Total Station.

GNSS Methodology:
Each point was measured using the real time adjusted network provided by Gulf Coast Geospatial Center (GCGC) Real Time Network, NAD83(2011) epoch 20110.00. Each point was measured twice, for at least 3 minutes. For forested points, a secondary control point with line of sight to another point was established so that the resulting pair was occupied with a total station.

Variations from the stated GNSS methodology:

Overall Project Accuracy Statement

All point coordinates have been reported in the North American Datum of 1983 (NAD83 2011), North Site is UTM Zone 16 North in Meters , South Site is State Plan Zone (2301 Mississippi East) in US survey feet. Elevations are relative to the North American Vertical Datum of 1988 (NAVD 88) which were derived using the Geoid 12B model and are reported in North Site in Meters In the South Site in US Survey Feet.

Calibration Points

Average Horizontal RMSE at the 95% confidence level is 0.022 Meters, 0.07USFeet
Average Elevation RMSE at the 95% confidence level is 0.031 Meters, 0.10USFeet
Average 3 dimensional RMSE at the 95% confidence level is 0.038 Meters, 0.12USFeet

NVA Points

Average Horizontal RMSE at the 95% confidence level is 0.022 Meters, 0.07USFeet.
Average Elevation RMSE at the 95% confidence level is 0.031 Meters, 0.10USFeet.
Average 3 dimensional RMSE at the 95% confidence level is 0.038 Meters, 0.12USFeet.

VVA Points

Average Horizontal RMSE at the 95% confidence level is 0.023 Meters, 0.08USFeet.
Average Elevation RMSE at the 95% confidence level is 0.030 Meters, 0.09USFeet
Average 3 dimensional RMSE at the 95% confidence level is 0.038 Meters, 0.012USFeet.

GPS Project Summary

North Site

Project	BAA MS_Tishomingo LiDAR_2016_B16
Location	Northeast Mississippi
Task Order Number	G16PD00327
Quantum Spatial Project Number	28212
Date	4/15/2016
Person Responsible for GPS Calculations	Kenny Roberts

Coordinate Projection	UTM Zone 16 North
Applicable Datum	NAD 83 (20011)
Units (USF, Feet, Meters)	Meters
Geoid Model Employed	GEOID12B
GPS Hardware Used	Trimble R8 GNSS
Single or Dual Frequency	Dual
Crew Size for GPS Operations	2 - person
Observation Methodology	Static RTK VRS
Maximum Baseline Length	N/A
GPS Software Employed	Trimble Business Center
Ephemerides - Broadcast or Precise	Broadcast

Number of Network Points (Known & Unknown)	N/A
Number of Known Horizontal Points Held in Final Soln	N/A
Number of Known Vertical Points Held in Final Soln	N/A
Number of Independent Baselines	N/A
Ratio -- Independent Baselines to Network Points	N/A

Horizontal Control Points Employed

Accuracy of Control

Vertical Control Points Employed

GPS Project Summary

South Site

Project	BAA MS_Tishomingo LiDAR_2016_B16
Location	Around Hattiesburg, Mississippi
Task Order Number	G16PD00327
Quantum Spatial Project Number	28212
Date	4/15/2016
Person Responsible for GPS Calculations	Kenny Roberts

Coordinate Projection	MS S P East Zone (2301MS East)
Applicable Datum	NAD 83 (20011)
Units (USF, Feet, Meters)	US Survey Feet
Geoid Model Employed	GEOID12B
GPS Hardware Used	Trimble R8 GNSS, Leica GS15
Single or Dual Frequency	Dual
Crew Size for GPS Operations	2 - person
Observation Methodology	Static RTK VRS
Maximum Baseline Length	N/A
GPS Software Employed	Trimble Business Center
Ephemerides - Broadcast or Precise	Broadcast

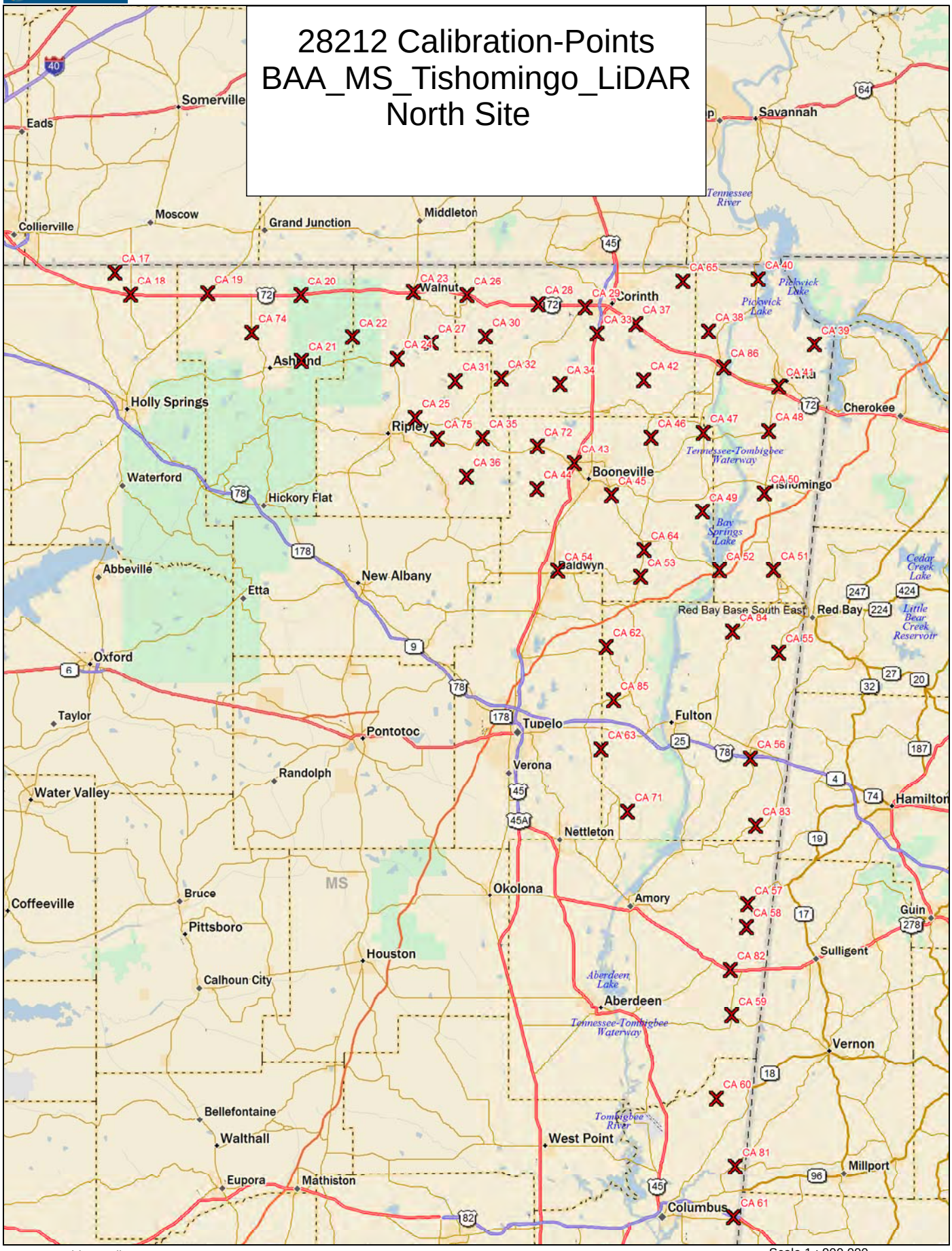
Number of Network Points (Known & Unknown)	N/A
Number of Known Horizontal Points Held in Final Soln	N/A
Number of Known Vertical Points Held in Final Soln	N/A
Number of Independent Baselines	N/A
Ratio -- Independent Baselines to Network Points	N/A

Horizontal Control Points Employed

Accuracy of Control

Vertical Control Points Employed

28212 Calibration-Points BAA_MS_Tishomingo_LiDAR North Site



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TN

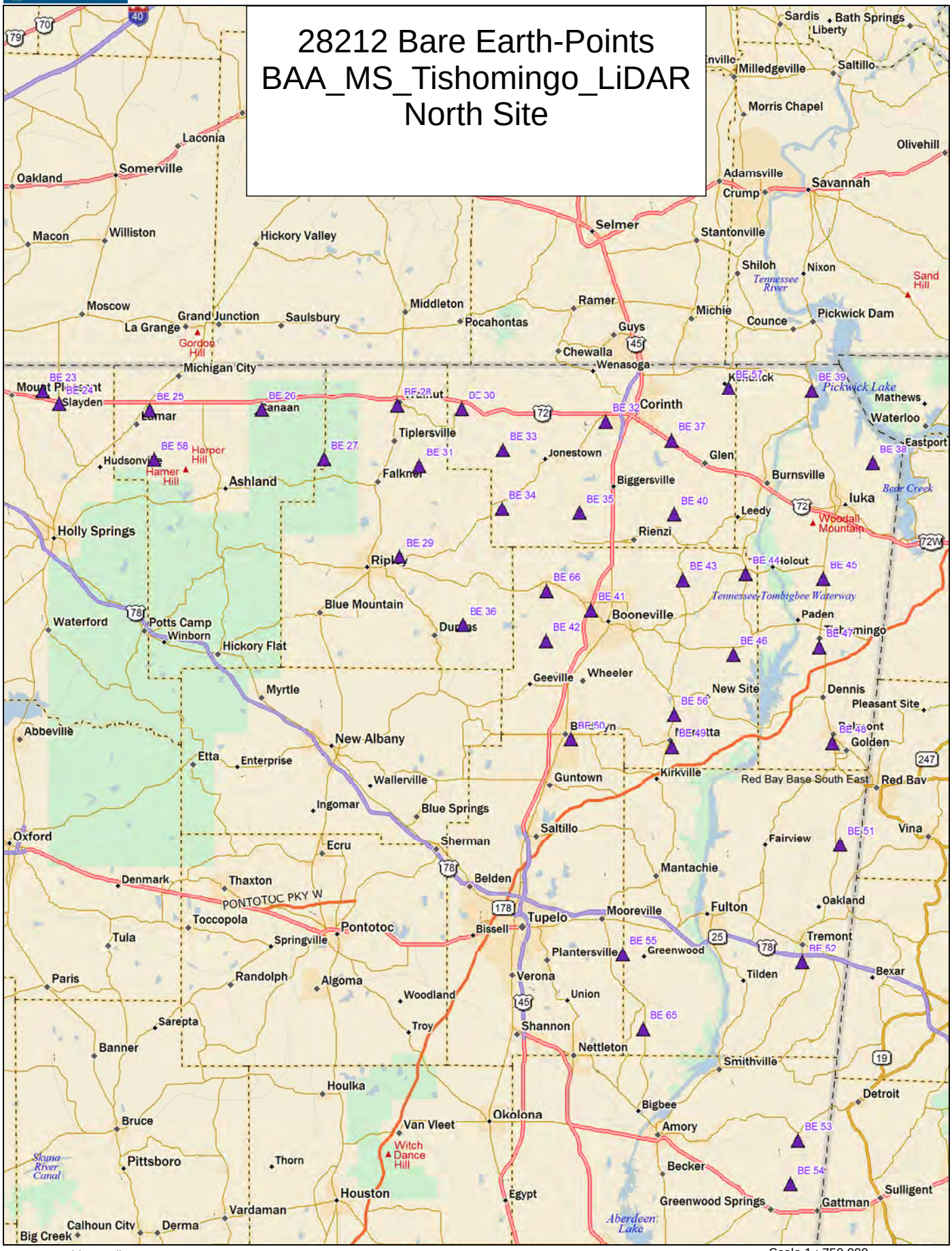
MN (2.0°W)

Scale 1 : 900,000

1" = 14.20 mi

Data Zoom 7-7

28212 Bare Earth-Points BAA_MS_Tishomingo_LiDAR North Site



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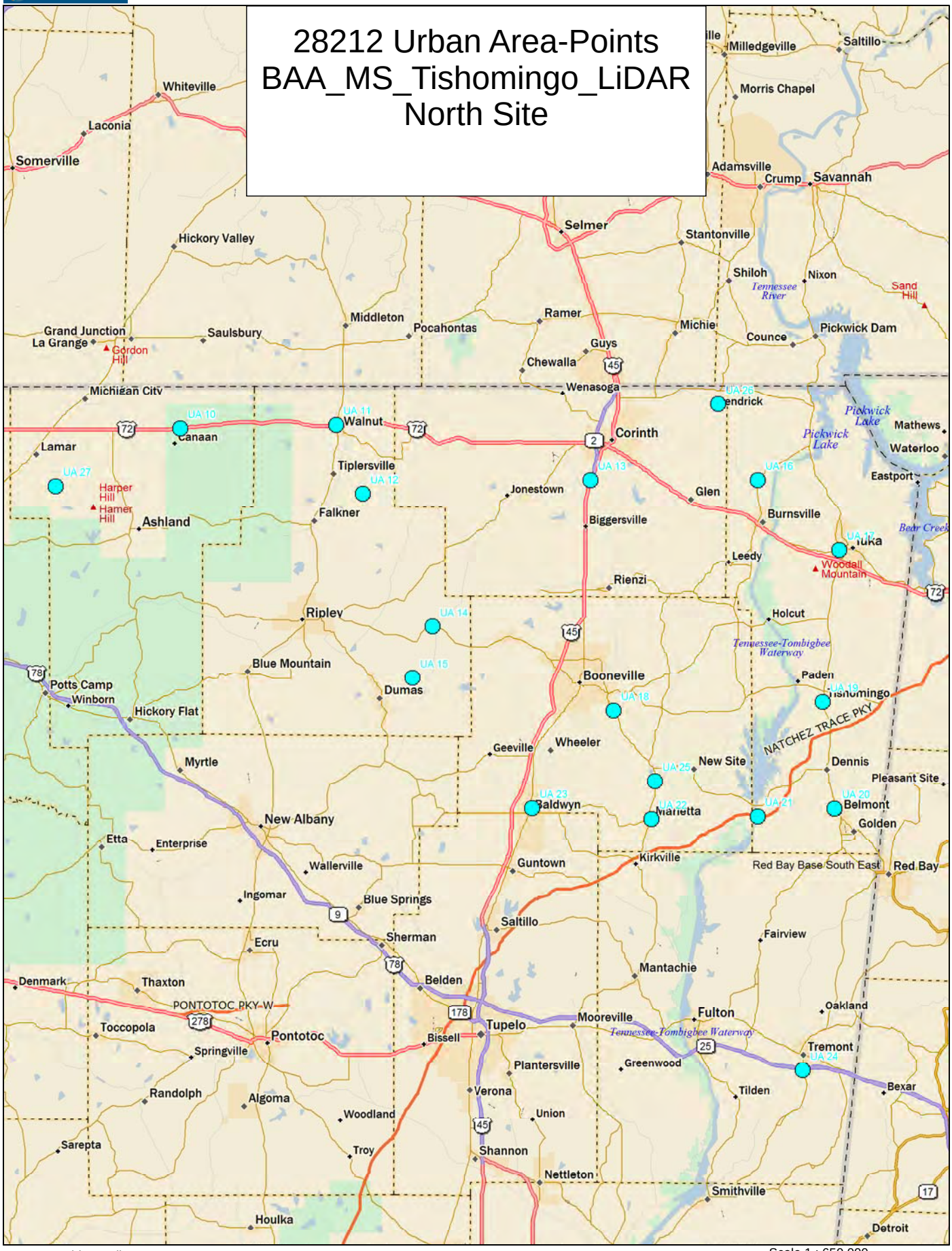
MN (2.0°W)

Scale 1 : 750,000

1" = 11.84 mi

Data Zoom 8-1

28212 Urban Area-Points BAA_MS_Tishomingo_LiDAR North Site



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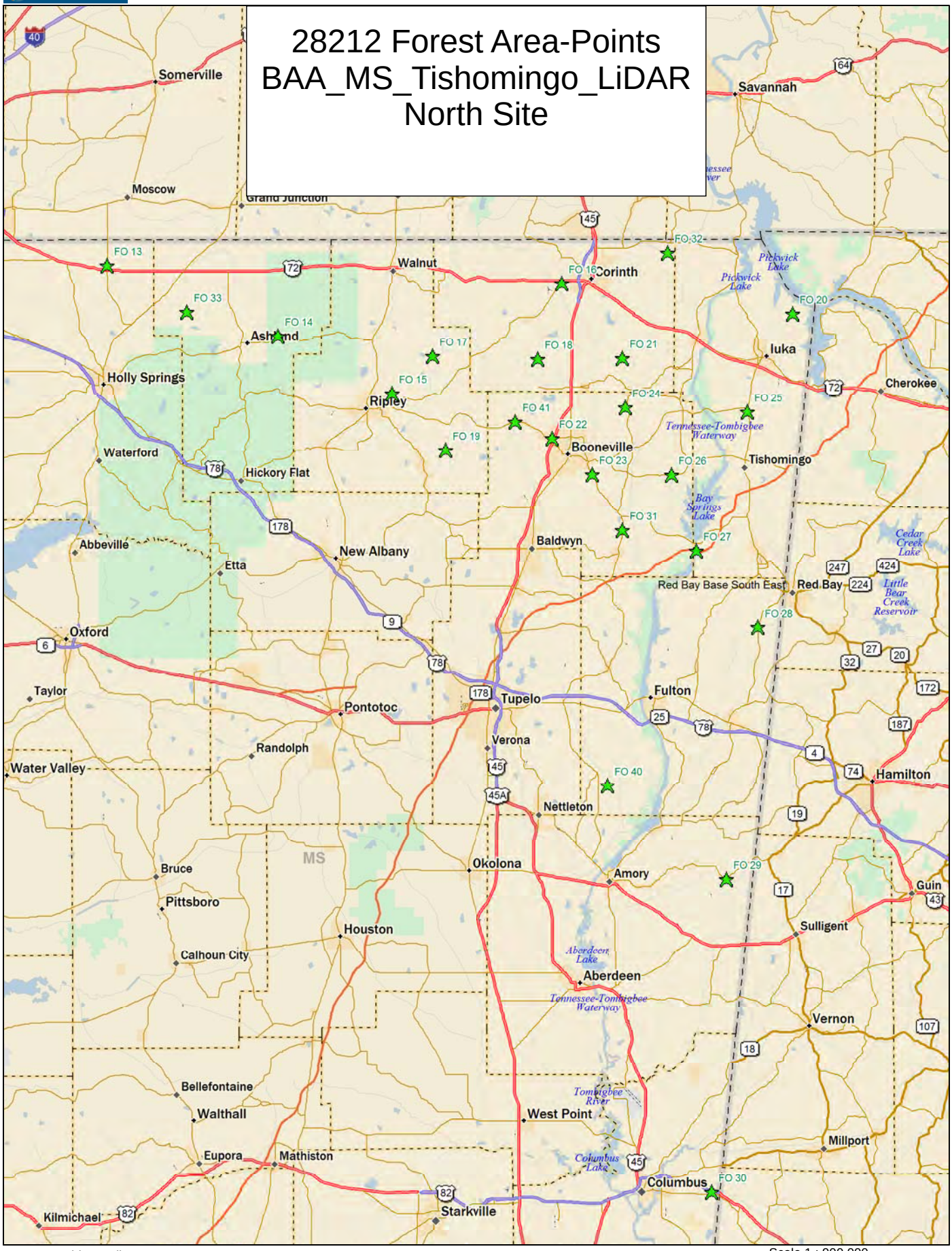
MN (2.1°W)

Scale 1 : 650,000

1" = 10.26 mi

Data Zoom 8-3

28212 Forest Area-Points BAA_MS_Tishomingo_LiDAR North Site



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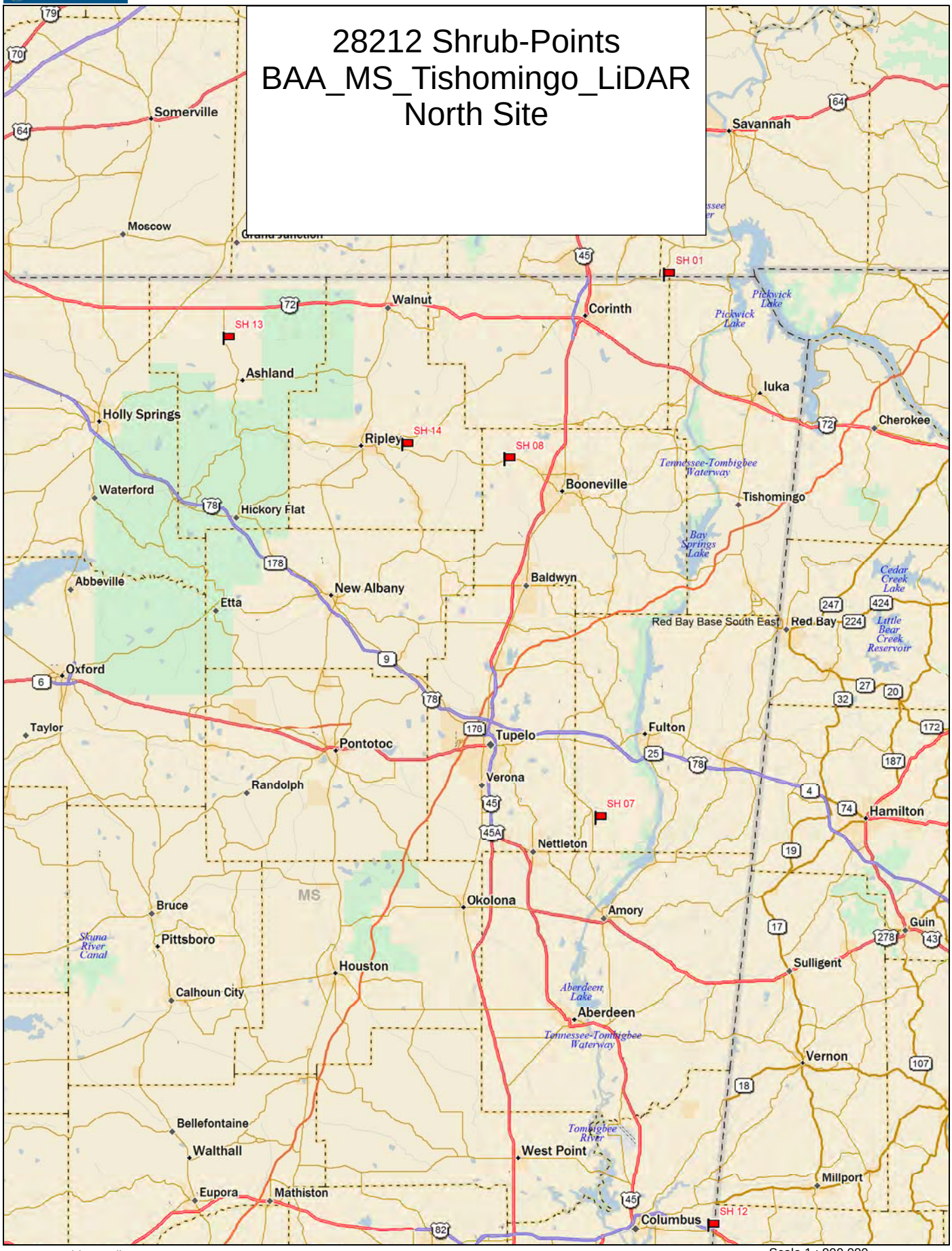
MN (2.0°W)

Scale 1 : 900,000

1" = 14.20 mi

Data Zoom 7-7

28212 Shrub-Points BAA_MS_Tishomingo_LiDAR North Site



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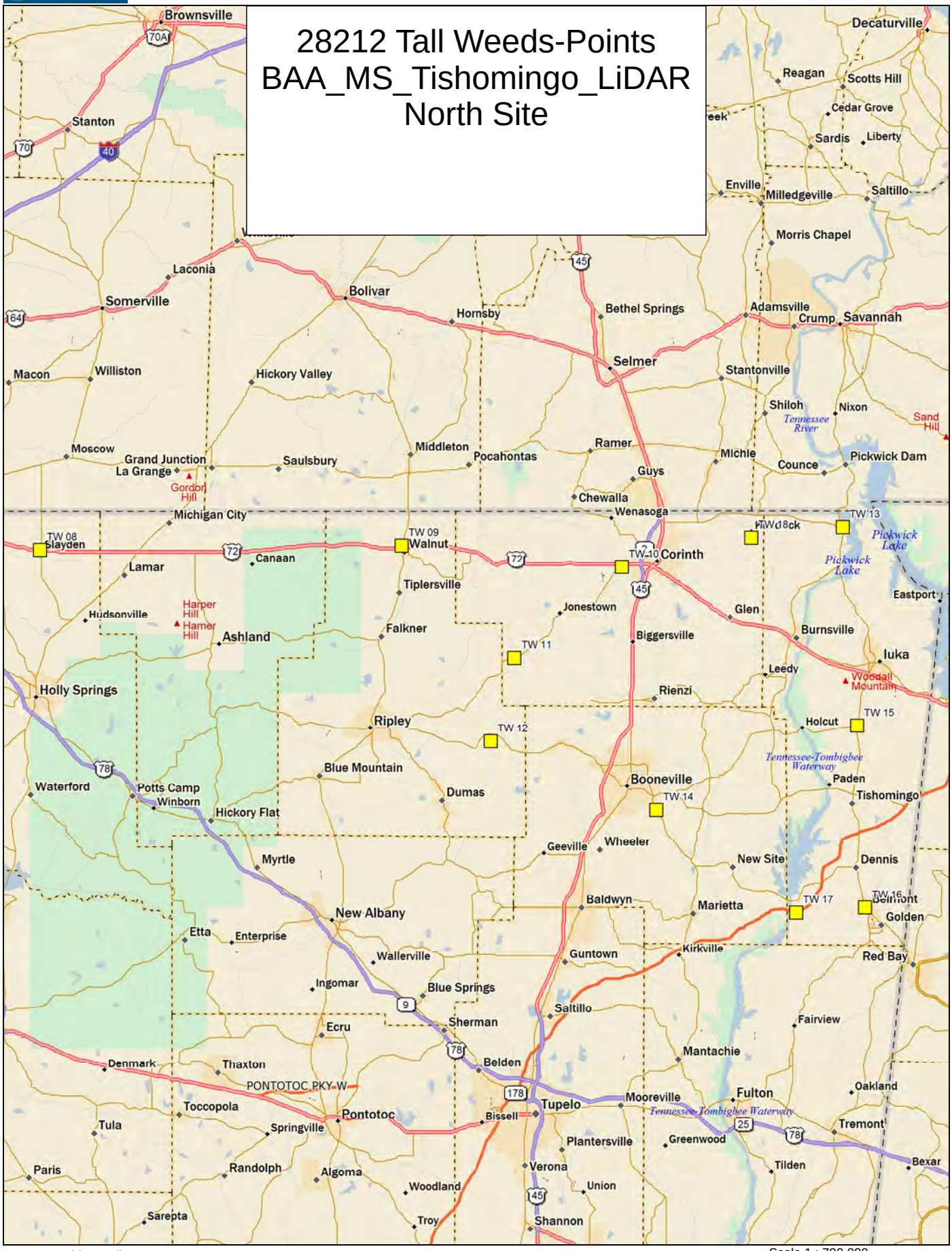
MN (2.0°W)

Scale 1 : 900,000

1" = 14.20 mi

Data Zoom 7-7

28212 Tall Weeds-Points BAA_MS_Tishomingo_LiDAR North Site



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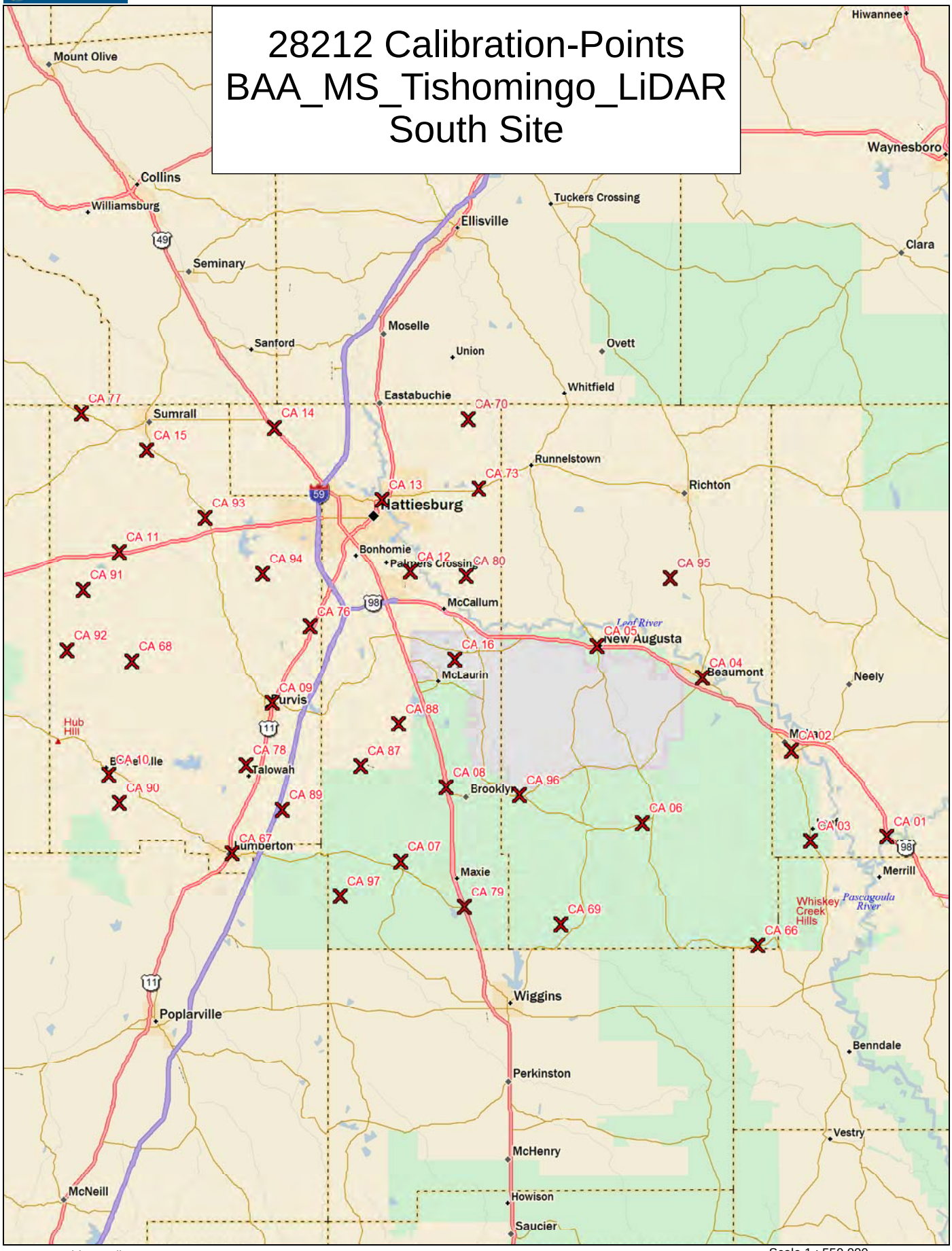
MN (2.0°W)

Scale 1 : 700,000

1" = 11.05 mi

Data Zoom 8-2

28212 Calibration-Points BAA_MS_Tishomingo_LiDAR South Site



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TN

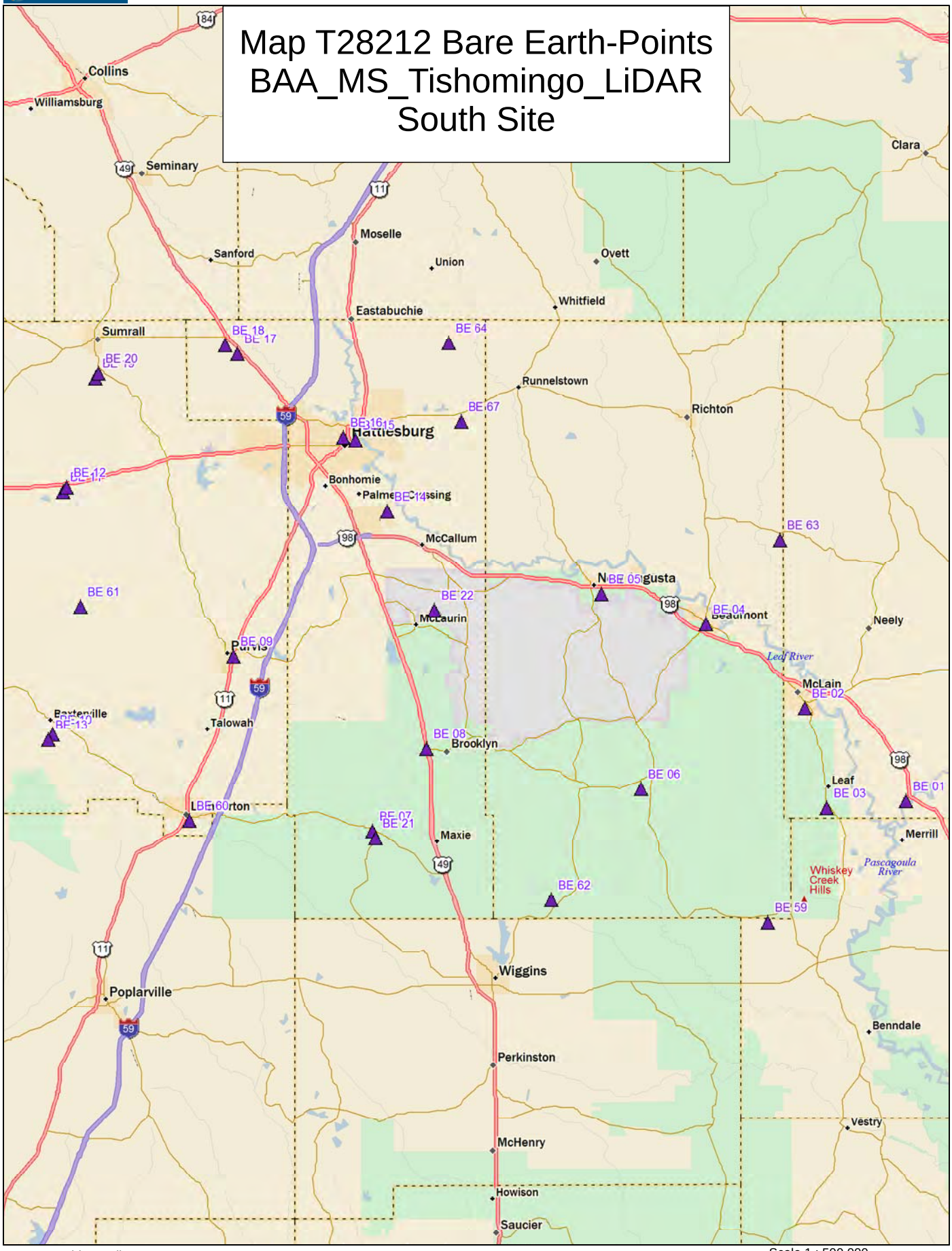
MN (1.4°W)

Scale 1 : 550,000

1" = 8.68 mi

Data Zoom 8-5

Map T28212 Bare Earth-Points BAA_MS_Tishomingo_LiDAR South Site



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TN

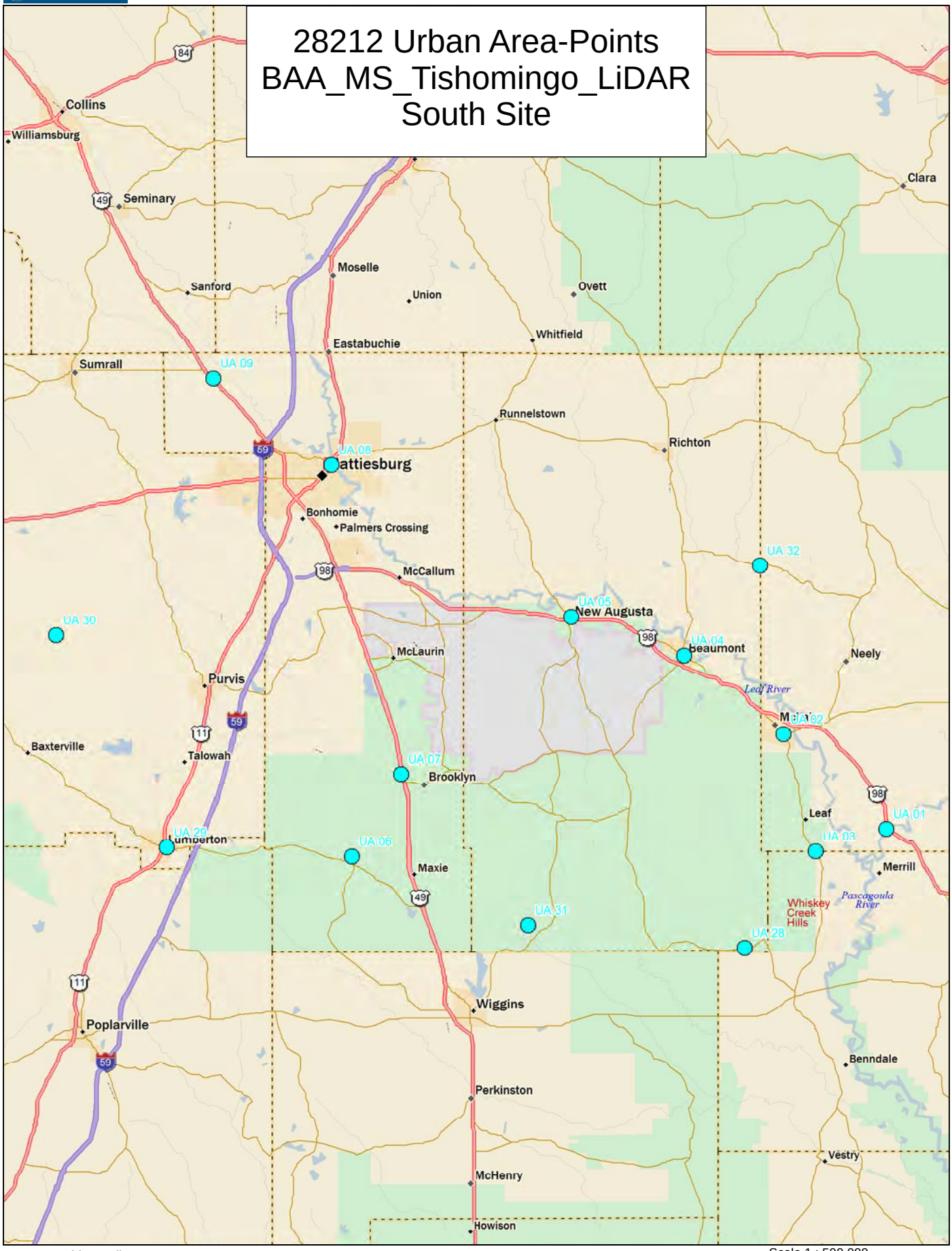
MN (1.4°W)

Scale 1 : 500,000

1" = 7.89 mi

Data Zoom 8-6

28212 Urban Area-Points BAA_MS_Tishomingo_LiDAR South Site



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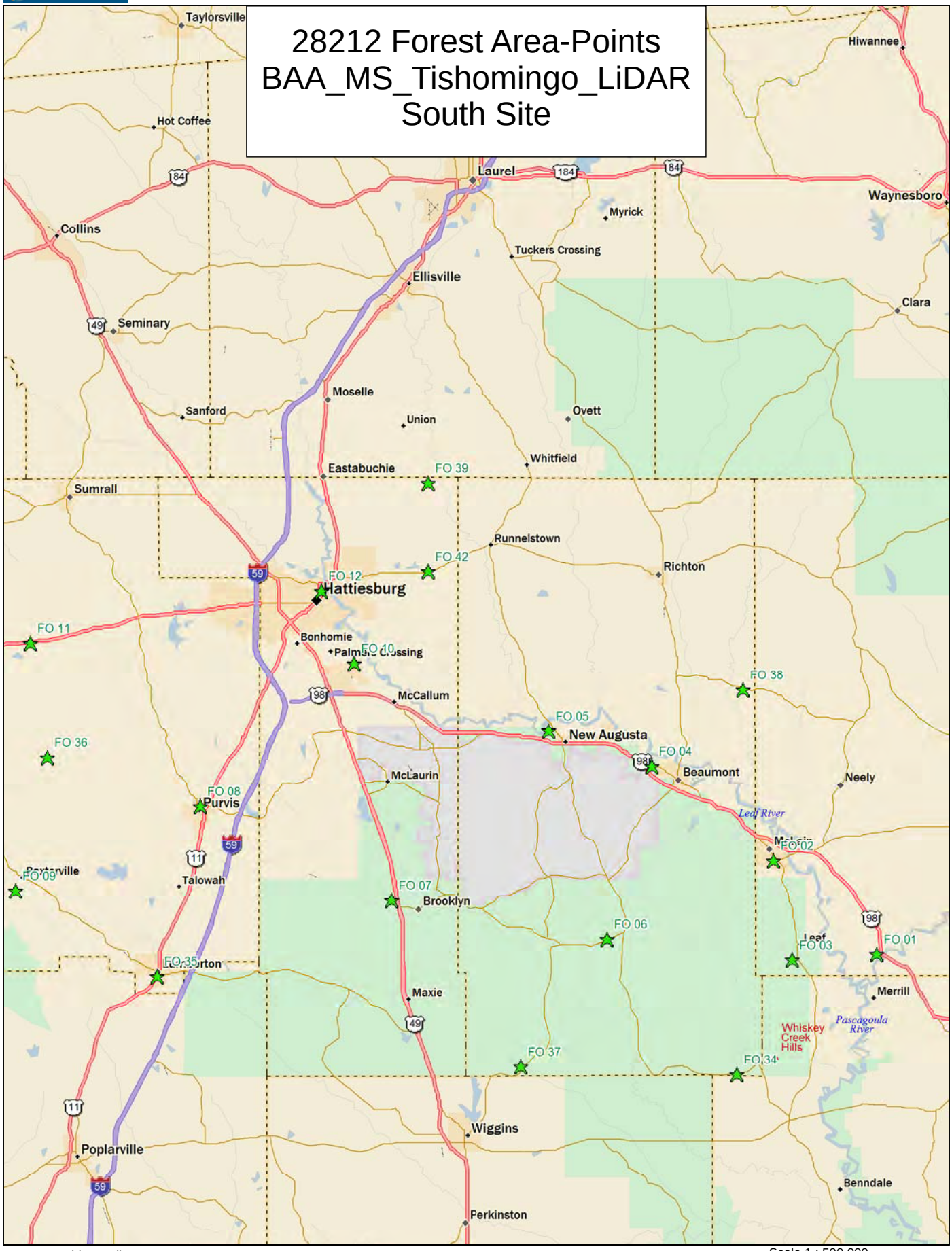
MN (1.4°W)

Scale 1 : 500,000

1" = 7.89 mi

Data Zoom 8-6

28212 Forest Area-Points BAA_MS_Tishomingo_LiDAR South Site



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TN

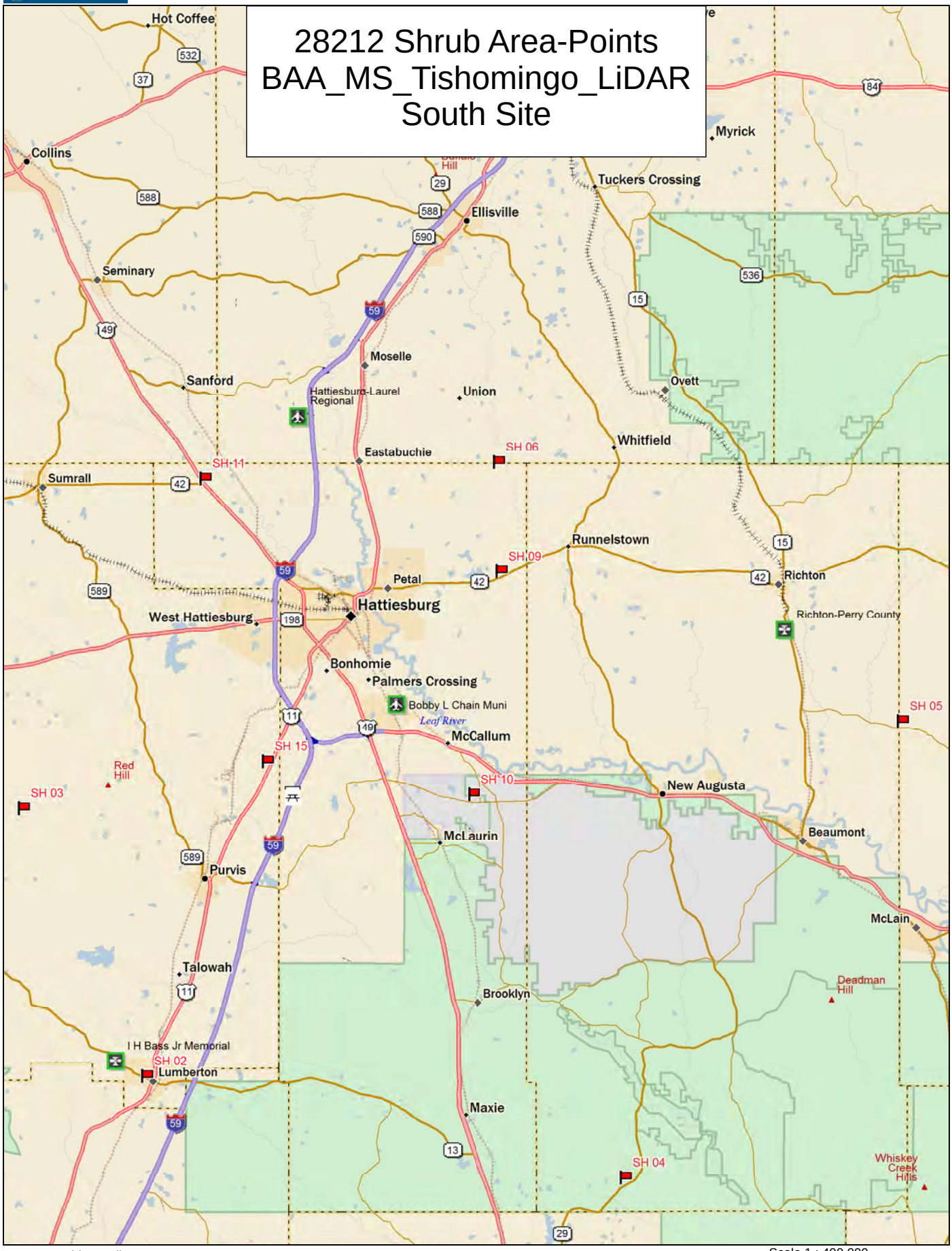
MN (1.4°W)

Scale 1 : 500,000

1" = 7.89 mi

Data Zoom 8-6

28212 Shrub Area-Points BAA_MS_Tishomingo_LiDAR South Site



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TN

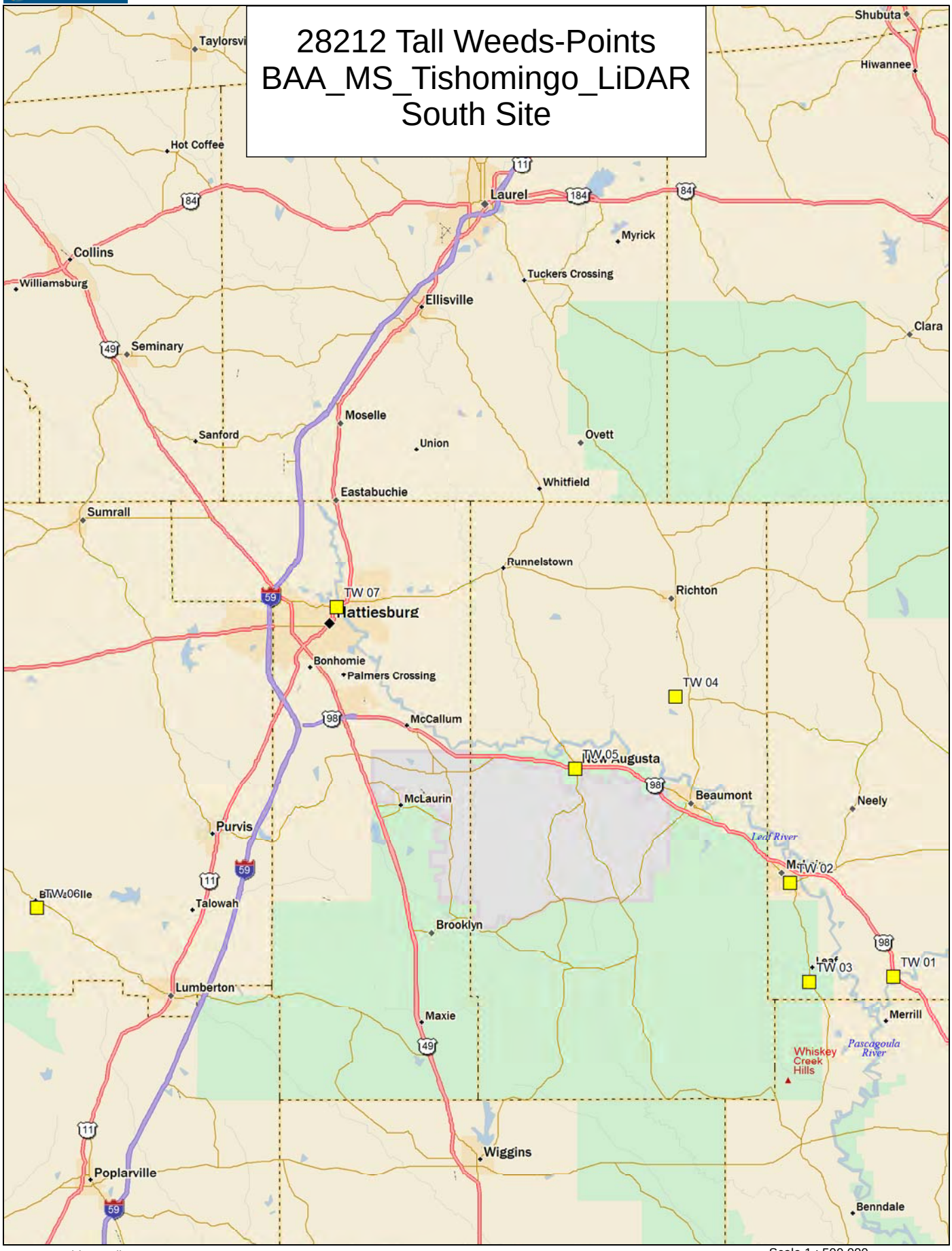
MN (1.4°W)

Scale 1 : 400,000

1" = 6.31 mi

Data Zoom 9-0

28212 Tall Weeds-Points BAA_MS_Tishomingo_LiDAR South Site



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TN
MN (1.4°W)

Scale 1 : 500,000
1" = 7.89 mi
Data Zoom 8-6

II. Final Coordinates

Final Coords 0028212 BAA_MS_Tishomingo_LiDAR
NAD83(2011) UTM Zone 16N Meters NAVD88 (Geoid12b)
North Site

Point ID	Northing	Easting	Elevation	Description
Calibration Points				
CA 17	3873930.971	274334.301	142.881	Gravel
CA 18	3869963.243	276967.451	172.686	Bare Earth
CA 19	3869849.772	290402.064	139.315	Bare Earth
CA 20	3869231.965	306586.501	170.110	Gravel
CA 21	3857739.843	306444.475	203.104	Bare Earth
CA 22	3861706.736	315396.447	167.929	Gravel
CA 23	3869344.146	326179.502	149.856	Gravel
CA 24	3857771.579	323169.754	141.176	Gravel
CA 25	3847407.988	326091.836	166.767	Bare Earth
CA 26	3868657.557	335534.869	158.940	Gravel
CA 27	3860485.916	329114.168	171.710	Gravel
CA 28	3866843.645	347995.202	129.931	Gravel
CA 29	3866152.019	356212.041	127.775	Gravel
CA 30	3861338.495	338698.487	177.111	Gravel
CA 31	3853707.952	333167.331	170.999	Bare Earth
CA 32	3854001.011	341315.132	129.142	Gravel
CA 33	3861609.847	358180.566	126.730	Bare Earth
CA 34	3852844.294	351545.775	163.139	Gravel
CA 35	3843643.236	337868.958	140.242	Bare Earth
CA 36	3836970.346	334855.694	202.741	Gravel
CA 37	3863182.390	364935.836	141.787	Gravel
CA 38	3861674.312	377585.448	147.614	Pavement
CA 39	3859173.468	396051.212	163.080	Bare Earth
CA 40	3870668.785	386359.613	150.202	Bare Earth
CA 41	3851969.260	389711.066	175.566	Gravel
CA 42	3853352.543	366137.855	137.867	Gravel
CA 43	3839037.508	353838.699	158.983	Bare Earth
CA 44	3834658.419	347271.834	132.418	Bare Earth
CA 45	3833379.974	360268.145	157.316	Gravel
CA 46	3843264.005	367337.072	166.798	Pavement
CA 47	3844020.164	376485.258	156.092	Gravel
CA 48	3844127.618	387856.286	176.438	Gravel
CA 49	3830210.743	376149.883	149.979	Gravel
CA 50	3833261.932	387008.024	157.908	Bare Earth
CA 51	3819866.290	388408.447	174.419	Gravel
CA 52	3819933.838	378996.003	114.885	Gravel
CA 53	3818988.329	365148.531	113.280	Gravel
CA 54	3820294.757	350704.679	104.960	Gravel
CA 55	3805462.064	389182.507	129.483	Gravel
CA 56	3786917.860	383954.686	106.911	Bare Earth

Final Coords 0028212 BAA_MS_Tishomingo_LiDAR
NAD83(2011) UTM Zone 16N Meters NAVD88 (Geoid12b)
North Site

Point ID	Northing	Easting	Elevation	Description
CA 57	3761453.695	383163.149	95.469	Gravel
CA 58	3757520.491	382946.357	89.792	Bare Earth
CA 59	3742096.675	380084.970	84.552	Bare Earth
CA 60	3727675.502	377214.138	102.512	Bare Earth
CA 61	3706964.587	379939.579	94.764	Gravel
CA 62	3806855.190	358909.545	108.225	Gravel
CA 63	3788881.747	357742.930	94.456	Gravel
CA 64	3823661.634	365790.720	110.155	Gravel
CA 65	3870505.551	373250.485	149.971	Gravel
CA 71	3777925.680	362285.075	105.050	Gravel
CA 72	3842050.830	347470.546	173.771	Gravel
CA 74	3862893.504	297925.089	163.253	Bare Earth
CA 75	3843706.920	329930.238	143.461	Bare Earth
CA 81	3715769.639	380424.571	80.555	Bare Earth
CA 82	3750005.080	379956.356	82.774	Gravel
CA 83	3775203.297	384712.522	115.069	Bare Earth
CA 84	3809162.439	381097.955	150.188	Bare Earth
CA 85	3797489.141	360084.186	91.886	Gravel
CA 86	3855321.520	380150.175	137.489	Bare Earth
		NVA		
BE 23	3872552.882	274769.442	130.917	Bare Earth
BE 24	3870653.276	277123.738	161.230	Bare Earth
BE 25	3869392.707	290219.864	135.696	Bare Earth
BE 26	3869186.845	306496.587	172.693	Bare Earth
BE 27	3861736.666	315391.278	167.095	Bare Earth
BE 28	3869347.615	326148.080	149.157	Bare Earth
BE 29	3847335.733	326088.312	166.644	Bare Earth
BE 30	3868638.717	335532.533	159.262	Bare Earth
BE 31	3860483.251	329145.734	171.572	Bare Earth
BE 32	3866460.396	356473.313	125.861	Bare Earth
BE 33	3862623.414	341459.840	192.047	Bare Earth
BE 34	3854083.947	341237.189	130.591	Bare Earth
BE 35	3853270.379	352488.321	162.313	Bare Earth
BE 36	3837223.172	335157.348	205.754	Bare Earth
BE 37	3863606.192	365974.324	162.320	Bare Earth
BE 38	3859911.500	395130.213	189.238	Bare Earth
BE 39	3870549.230	386427.663	150.794	Bare Earth
BE 40	3852833.770	366216.607	134.699	Bare Earth
BE 41	3839099.135	353916.689	159.938	Bare Earth
BE 42	3834692.723	347299.207	131.603	Bare Earth
BE 43	3843243.969	367326.619	166.736	Bare Earth
BE 44	3844007.749	376494.592	155.907	Bare Earth

Final Coords 0028212 BAA_MS_Tishomingo_LiDAR
NAD83(2011) UTM Zone 16N Meters NAVD88 (Geoid12b)

North Site

Point ID	Northing	Easting	Elevation	Description
BE 45	3843151.983	387747.994	179.171	Bare Earth
BE 46	3832303.318	374507.278	116.060	Bare Earth
BE 47	3833231.924	387026.816	158.219	Bare Earth
BE 48	3819132.138	388791.803	179.846	Bare Earth
BE 49	3818874.747	365360.719	115.913	Bare Earth
BE 50	3820278.738	350688.334	105.027	Bare Earth
BE 51	3804408.851	389756.501	141.105	Bare Earth
BE 52	3787383.714	384016.122	116.189	Bare Earth
BE 53	3761420.229	383071.465	93.575	Bare Earth
BE 54	3755119.983	381851.607	94.553	Bare Earth
BE 55	3788886.856	357729.901	94.292	Bare Earth
BE 56	3823619.835	365754.625	110.615	Bare Earth
BE 57	3871085.921	374389.921	148.359	Bare Earth
BE 58	3862230.349	290696.980	189.155	Bare Earth
BE 65	3777937.175	360593.306	84.119	Bare Earth
BE 66	3842004.455	347471.228	172.755	Bare Earth
UA 10	3869247.202	306493.368	171.393	Pavement
UA 11	3869267.903	326175.272	147.622	Concrete
UA 12	3860536.009	329386.534	171.044	Pavement
UA 13	3861732.123	358204.717	127.299	Pavement
UA 14	3843639.193	337854.600	141.005	Pavement
UA 15	3837201.225	335205.798	207.298	Pavement
UA 16	3861424.332	379282.562	135.925	Pavement
UA 17	3852512.516	389419.276	179.199	Pavement
UA 18	3832629.075	360647.671	154.854	Pavement
UA 19	3833327.716	387143.769	156.380	Pavement
UA 20	3819835.006	388423.283	175.742	Pavement
UA 21	3818998.089	378700.119	104.405	Pavement
UA 22	3818834.735	365256.528	118.100	Pavement
UA 23	3820438.402	350143.268	108.774	Pavement
UA 24	3786929.909	384031.196	108.407	Pavement
UA 25	3823608.706	365740.393	110.590	Pavement
UA 26	3871105.575	374400.902	148.165	Pavement
UA 27	3862279.034	290642.970	190.177	Pavement
		VVA		
FO 13	3870699.884	277110.666	160.188	Forest
FO 14	3857745.756	306464.341	202.190	Forest
FO 15	3847329.915	326063.159	165.819	Forest
FO 16	3865990.296	355940.403	120.328	Forest
FO 17	3853737.420	333190.303	172.054	Forest
FO 18	3852882.865	351550.178	161.874	Forest
FO 19	3837236.239	335156.729	205.597	Forest

Final Coords 0028212 BAA_MS_Tishomingo_LiDAR
NAD83(2011) UTM Zone 16N Meters NAVD88 (Geoid12b)
North Site

Point ID	Northing	Easting	Elevation	Description
FO 20	3860170.489	395915.246	194.728	Forest
FO 21	3852768.994	366257.071	134.357	Forest
FO 22	3839016.600	353832.003	159.048	Forest
FO 23	3832562.121	360684.595	153.238	Forest
FO 24	3844222.615	366671.486	179.472	Forest
FO 25	3843184.774	387825.502	178.536	Forest
FO 26	3832314.395	374481.105	115.703	Forest
FO 27	3819043.870	378627.175	103.624	Forest
FO 28	3805558.289	389201.728	128.076	Forest
FO 29	3761500.665	383192.173	92.642	Forest
FO 30	3706934.757	379873.027	91.639	Forest
FO 31	3822786.904	365785.884	104.930	Forest
FO 32	3871088.911	374351.827	149.402	Forest
FO 33	3862252.850	290713.106	188.922	Forest
FO 40	3778120.164	362561.226	106.457	Forest
FO 41	3841991.635	347426.519	173.963	Forest
SH 01	3872740.473	374731.538	139.364	Shrubs
SH 07	3777913.987	361415.016	87.830	Shrubs
SH 08	3840866.698	346521.957	172.483	Shrubs
SH 12	3706545.799	380304.144	96.974	Shrubs
SH 13	3862968.902	297948.248	162.503	Shrubs
SH 14	3843770.748	328595.098	165.444	Shrubs
TW 08	3870010.106	276930.961	172.267	Tall Weeds
TW 09	3869541.701	326168.597	154.758	Tall Weeds
TW 10	3866118.576	356144.612	123.754	Tall Weeds
TW 11	3854010.886	341300.528	128.929	Tall Weeds
TW 12	3842632.172	337914.547	143.290	Tall Weeds
TW 13	3871069.282	386305.696	144.450	Tall Weeds
TW 14	3832924.949	360357.411	155.547	Tall Weeds
TW 15	3844047.418	387935.103	176.453	Tall Weeds
TW 16	3819295.069	388682.914	177.993	Tall Weeds
TW 17	3818702.963	379296.229	111.329	Tall Weeds
TW 18	3869815.018	373841.895	127.604	Tall Weeds

Final Coords 0028212 BAA_MS_Tishomingo_LiDAR
NAD83(2011) SP MS EAST USFeet NAVD88 (Geoid12b)
South Site

Point ID	Northing	Easting	Elevation	Description
		Calibration Points		
CA 01	552070.27	1021912.38	96.50	Gravel
CA 02	582115.07	988389.92	77.24	Bare Earth
CA 03	550534.81	995095.52	103.30	Bare Earth
CA 04	607755.49	957206.29	93.63	Gravel
CA 05	618974.01	920151.43	106.71	Gravel
CA 06	556881.26	935896.32	276.30	Gravel
CA 07	543433.01	850615.73	322.98	Gravel
CA 08	569523.83	866746.86	200.47	Gravel
CA 09	599412.83	805636.33	359.25	Bare Earth
CA 10	574532.22	748001.54	403.51	Gravel
CA 11	652551.91	752267.33	412.78	Gravel
CA 12	645238.87	854347.55	142.30	Gravel
CA 13	670419.12	844548.12	149.91	Gravel
CA 14	695711.31	806920.13	213.12	Gravel
CA 15	688194.92	762125.09	363.27	Bare Earth
CA 16	614452.08	869932.14	275.74	Gravel
CA 66	514030.91	976571.25	208.88	Gravel
CA 67	546640.51	791324.90	271.57	Gravel
CA 68	614286.09	756451.64	353.52	Bare Earth
CA 69	521387.75	907205.77	270.60	Gravel
CA 70	698379.19	874867.93	234.50	Gravel
CA 73	674147.52	878714.67	254.50	Gravel
CA 76	626183.55	819109.04	365.07	Gravel
CA 77	701192.93	739333.82	418.69	Gravel
CA 78	577577.36	796410.56	320.30	Gravel
CA 79	527541.73	872992.91	314.11	Gravel
CA 80	643557.43	873921.04	159.55	Gravel
CA 87	577098.55	836626.64	323.54	Gravel
CA 88	591830.07	850067.18	294.55	Bare Earth
CA 89	561735.88	808958.75	332.88	Gravel
CA 90	564634.20	751660.51	384.77	Gravel
CA 91	639368.78	739502.15	322.55	Bare Earth
CA 92	618259.54	733586.42	381.44	Gravel
CA 93	664343.84	782501.00	351.13	Bare Earth
CA 94	644616.84	802520.61	408.76	Gravel
CA 95	642708.33	945858.56	233.18	Gravel
CA 96	566703.26	892721.64	136.70	Bare Earth
CA 97	531578.87	829200.52	267.59	Gravel

NVA

Final Coords 0028212 BAA_MS_Tishomingo_LiDAR
NAD83(2011) SP MS EAST USFeet NAVD88 (Geoid12b)
South Site

Point ID	Northing	Easting	Elevation	Description
BE 01	552655.38	1020723.65	125.47	Bare Earth
BE 02	582309.26	988375.58	77.87	Bare Earth
BE 03	550457.37	995421.26	96.50	Bare Earth
BE 04	609248.06	956785.29	90.84	Bare Earth
BE 05	618721.79	923471.88	145.36	Gravel
BE 06	556673.57	936068.48	274.16	Gravel
BE 07	543454.05	849823.48	301.93	Gravel
BE 08	569560.60	867239.21	211.34	Bare Earth
BE 09	599467.25	805698.92	355.80	Bare Earth
BE 10	574670.08	747697.66	406.65	Gravel
BE 11	652095.53	751681.57	409.09	Gravel
BE 12	653469.05	752760.79	406.36	Bare Earth
BE 13	573082.31	746361.00	391.62	Bare Earth
BE 14	645261.96	854996.65	142.07	Gravel
BE 15	668075.65	844960.21	139.59	NAIL W/DISC
BE 16	668941.15	841005.60	143.33	BARE EARTH
BE 17	695611.78	807371.72	207.44	Gravel
BE 18	698469.53	803604.50	231.24	Gravel
BE 19	688185.91	762175.46	362.86	Bare Earth
BE 20	689705.02	763133.13	359.88	Bare Earth
BE 21	541144.55	850877.39	304.96	Gravel
BE 22	613853.41	869912.26	279.37	Gravel
BE 59	514043.30	976537.13	207.84	Gravel
BE 60	547003.93	791314.98	267.95	Bare Earth
BE 61	615436.21	756908.88	330.31	Bare Earth
BE 62	521336.75	907211.81	269.44	Gravel
BE 63	635866.89	980449.58	152.54	BE
BE 64	698842.41	874675.77	234.34	Bare Earth
BE 67	673783.54	878636.13	260.52	NAIL W/DISC
UA 01	551898.18	1021803.10	96.14	Pavement
UA 02	581998.89	988915.66	77.46	Pavement
UA 03	544856.84	999359.84	81.89	Pavement
UA 04	607208.20	957232.14	93.40	PAV
UA 05	619603.76	921240.43	110.06	PAV
UA 06	543365.86	850701.04	325.56	PAVEMENT
UA 07	569554.10	866525.65	200.99	Pavement
UA 08	668143.52	844723.67	139.26	PK NAIL
UA 09	695826.29	807247.63	206.66	PAVEMENT
UA 28	514014.95	976572.58	208.53	PAV
UA 29	546597.34	791460.13	267.92	Pavement

Final Coords 0028212 BAA_MS_Tishomingo_LiDAR
NAD83(2011) SP MS EAST USFeet NAVD88 (Geoid12b)

South Site

Point ID	Northing	Easting	Elevation	Description
UA 30	614555.61	756584.59	344.41	Pavement
UA 31	521356.61	907222.80	270.59	PAV
UA 32	635967.06	981503.18	177.27	PAV
		VVA		
FO 01	551630.69	1020712.85	93.26	Forest
FO 02	581361.63	987717.47	75.66	Forest
FO 03	549772.79	993662.45	103.35	Forest
FO 04	611405.09	948915.66	89.00	Forest
FO 05	622615.33	915915.57	100.10	Forest
FO 06	556499.92	934495.47	277.83	Forest
FO 07	568986.03	865381.77	198.56	Forest
FO 08	599128.17	804316.19	335.47	Forest
FO 09	572579.68	745160.27	388.06	Forest
FO 10	644638.47	853639.73	127.94	Forest
FO 11	651529.00	750420.41	410.59	Forest
FO 12	667565.07	843306.08	140.58	Forest
FO 34	513451.43	975994.95	205.48	Forest
FO 35	545037.27	790316.06	244.77	Forest
FO 36	614991.19	755688.95	335.72	Forest
FO 37	515955.39	906780.90	211.08	Forest
FO 38	635919.78	977975.10	135.20	Forest
FO 39	701809.53	877471.93	162.62	Forest
FO42	673748.35	877420.88	251.33	Forest
SH 02	546309.17	787697.26	273.22	Shrub
SH 03	614589.49	756571.00	342.78	Shrub
SH 04	520012.16	910485.45	251.13	Shrub
SH 05	636119.45	981554.62	176.40	Shrub
SH 06	702299.68	878546.39	167.95	Shrub
SH 09	674497.61	879133.09	252.16	Shrub
SH 10	617642.11	871744.53	279.71	Shrub
SH 11	698485.40	803479.79	229.72	Shrub
SH 15	626227.10	819009.71	371.25	Shrub
TW 01	552085.68	1022014.01	96.16	Tall Weeds
TW 02	581926.36	988974.52	75.72	Tall Weeds
TW 03	550361.96	995075.05	102.33	Tall Weeds
TW 04	641199.90	952341.54	216.31	Tall Weeds
TW 05	618272.08	920243.00	108.08	Tall Weeds
TW 06	574657.90	747578.86	407.38	Tall Weeds
TW 07	670052.92	843973.10	151.58	Tall Weeds

III. Log Data Sheets

Log Data Sheets

North Site

523 Wellington Way, Suite 375
Lexington,KY 40503
859-277-8700 voice 859-277-8901 fax

GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 17
Proj. No.:	28212

STATE	MS	COUNTY	Marshall	QUAD:	Slayden (MS-TN)

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3873930.971
Easting	274334.301

Elevation
142.881

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	08:37	08:43		U.T.C.
END TIME	08:41	08:47	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA		
RADIUS (M)		
Antenna Serial #	5153480435	
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



523 Wellington Way, Suite 375
Lexington,KY 40503
859-277-8700 voice 859-277-8901 fax

GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 17
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

523 Wellington Way, Suite 375
Lexington,KY 40503
859-277-8700 voice 859-277-8901 fax

GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 18
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Marshall	QUAD:	Slayden (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3869963.243	Elevation
Easting	276967.451	172.686

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	10:10	10:15		U.T.C.
END TIME	10:13	10:18	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO

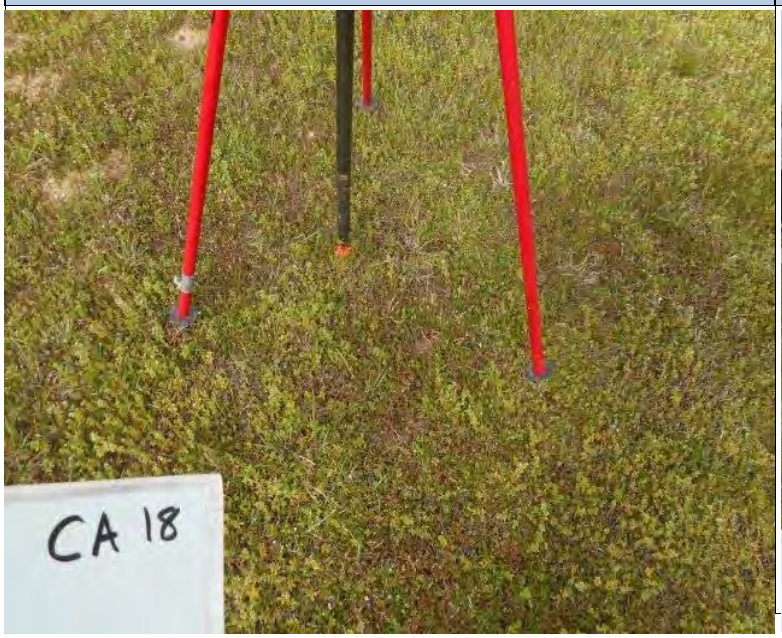


PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 18
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 19
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Benton	QUAD:	Lamar (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3869849.772	Elevation
Easting	290402.064	139.315

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	11:18	11:24		U.T.C.
END TIME	11:21	11:27	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 19
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 20
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Benton	QUAD:	Camp Hill (MS-TN)

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3869231.965	Elevation
Easting	306586.501	170.110

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	14:05	14:10		U.T.C.
END TIME	14:08	14:13	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 20
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 21
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Benton	QUAD:	Whitten Town

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3857739.843	Elevation
Easting	306444.475	203.104

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	16:20	16:26		U.T.C.
END TIME	16:23	16:29	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 21
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 22
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Benton	QUAD:	Camp Hill (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3861706.736	Elevation
Easting	315396.447	167.929

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	17:14	17:19		U.T.C.
END TIME	17:17	17:22	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 22
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 23
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Walnut (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3869344.146	Elevation
Easting	326179.502	149.856

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	13:13	13:18		U.T.C.
END TIME	13:16	13:21	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel/6"Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 23
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 24
Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Falkner

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3857771.579
Easting	323169.754

Elevation
141.176

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	18:08	18:13		U.T.C.
END TIME	18:11	18:16	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

ANTENNA		
RADIUS (M)		
Antenna Serial #	5153480435	
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 24
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 25
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Falkner

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3847407.988	Elevation
Easting	326091.836	166.767

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	10:20	10:32		U.T.C.
END TIME	10:24	10:35	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 25
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 26
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Chalybeate (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3868657.557	Elevation
Easting	335534.869	158.940

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	14:00	14:05		U.T.C.
END TIME	14:03	14:08	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel/6"Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO

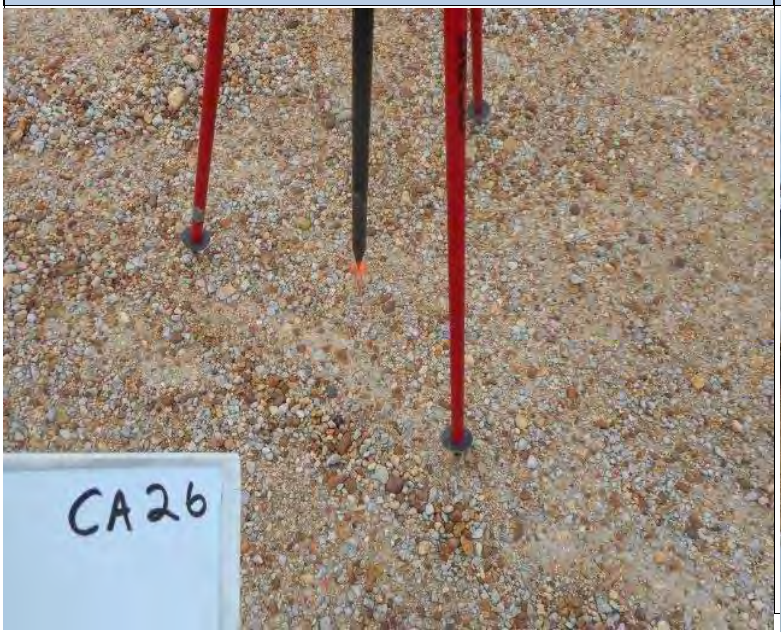


PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 26
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 27
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Peoples

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3860485.916	Elevation
Easting	329114.168	171.710

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	11:51	11:56		U.T.C.
END TIME	11:54	11:59	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel/6" Nail

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 27
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 28
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Kossuth North (MS-TN)

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3866843.645
Easting	347995.202

Elevation
129.931

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	12:01	12:07		U.T.C.
END TIME	12:05	12:10	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 28
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 29
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Corinth (MS-TN)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3866152.019	Elevation
Easting	356212.041	127.775

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	12:59	13:05		U.T.C.
END TIME	13:02	13:08	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 29
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 30
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Chalybeate (MS-TN)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3861338.495	Elevation
Easting	338698.487	177.111

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	11:14	11:20		U.T.C.
END TIME	11:18	11:23	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 30
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 31
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Peoples

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3853707.952	Elevation
Easting	333167.331	170.999

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	10:55	11:11		U.T.C.
END TIME	10:58	11:14	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 31
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 32
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Kossuth South

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3854001.011
Easting	341315.132

Elevation
129.142

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	10:14	10:19		U.T.C.
END TIME	10:17	10:22	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 32
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 33
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Corinth (MS-TN)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3861609.847
Easting	358180.566

Elevation
126.730

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	08:51	08:57		U.T.C.
END TIME	08:54	09:01	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 33
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 34
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Renzi

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3852844.294
Easting	351545.775

Elevation
163.139

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	09:02	09:07		U.T.C.
END TIME	09:05	09:10	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 34
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 35
Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Dumas

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3843643.236
Easting	337868.958

Elevation
140.242

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	07:39	07:44		U.T.C.
END TIME	07:42	07:47	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 35
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 36
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Dumas

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3836970.346	Elevation
Easting	334855.694	202.741

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	08:55	10:01		U.T.C.
END TIME	08:58	10:04	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 36
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 37
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	(MS-TN)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3863182.390
Easting	364935.836

Elevation
141.787

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	09:42	09:48		U.T.C.
END TIME	09:45	09:51	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 37
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 38
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Doskie

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3861674.312
Easting	377585.448

Elevation
147.614

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	17:28	17:33		U.T.C.
END TIME	17:31	17:36	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO

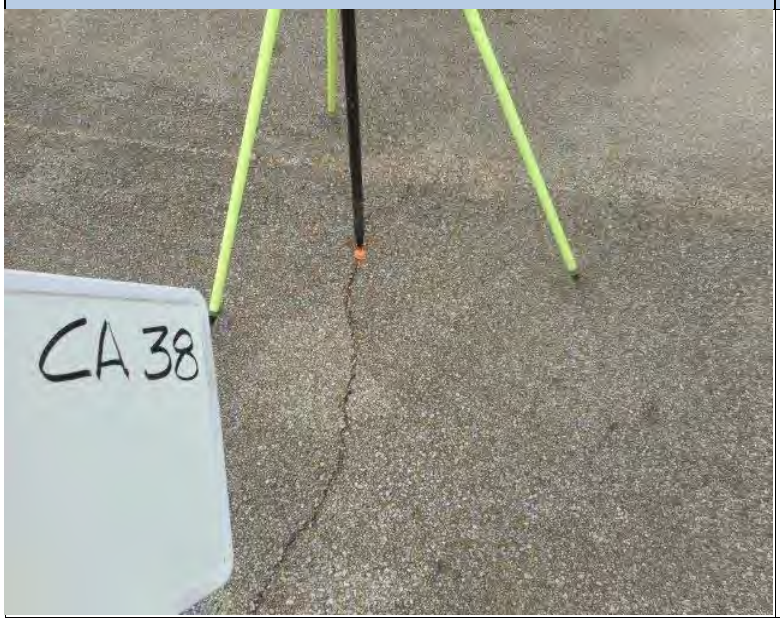


PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 38
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 39
Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Iuka

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3859173.468
Easting	396051.212

Elevation
163.080

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	14:16	14:22		U.T.C.
END TIME	14:20	14:28	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 39
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 40
Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Yellow Creek (MS-AL-TN)

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3870668.785
Easting	386359.613

Elevation
150.202

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	12:44	12:49		U.T.C.
END TIME	12:47	12:52	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 40
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 41
Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Iuka

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3851969.260
Easting	389711.066

Elevation
175.566

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	15:37	15:42		U.T.C.
END TIME	15:40	15:45	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 41
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 42
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Glens

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3853352.543
Easting	366137.855

Elevation
137.867

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	07:42	07:47		U.T.C.
END TIME	07:45	07:50	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 42
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 43
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Booneville

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3839037.508	Elevation
Easting	353838.699	158.983

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	15:01	15:06		U.T.C.
END TIME	15:04	15:09	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 43
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 44
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Jumpertown

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3834658.419
Easting	347271.834

Elevation
132.418

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	14:31	14:37		U.T.C.
END TIME	14:34	14:40	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 44
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 45
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Booneville

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3833379.974
Easting	360268.145

Elevation
157.316

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	12:55	13:01		U.T.C.
END TIME	12:59	13:04	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 45
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 46
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Altitude

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3843264.005	Elevation
Easting	367337.072	166.798

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	16:27	16:36		U.T.C.
END TIME	16:30	16:39	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 46
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 47
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Paden

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3844020.164
Easting	376485.258

Elevation
156.092

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	15:20	15:26		U.T.C.
END TIME	15:24	15:29	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 47
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 48
Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Tishomingo (MS-AL)

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3844127.618
Easting	387856.286

Elevation
176.438

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	17:27	17:32		U.T.C.
END TIME	17:30	17:35	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 48
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 49
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Paden SE

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3830210.743
Easting	376149.883

Elevation
149.979

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	14:05	14:10		U.T.C.
END TIME	14:08	14:13	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 49
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 50
Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Tishomingo (MS-AL)

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3833261.932
Easting	387008.024

Elevation
157.908

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	16:54	16:59		U.T.C.
END TIME	16:57	17:02	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO

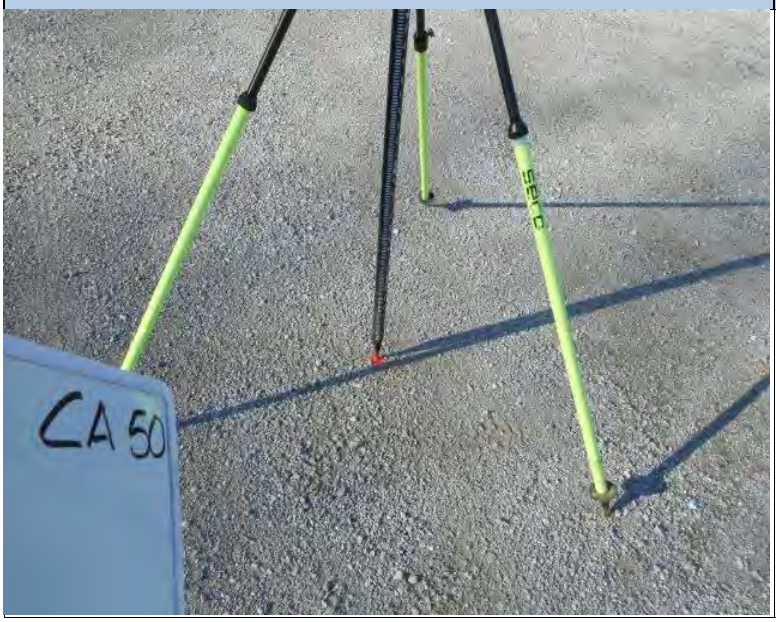


PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 50
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 51
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Belmont (MS-AL)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3819866.290	Elevation
Easting	388408.447	174.419

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	13:26	13:31		U.T.C.
END TIME	13:29	13:34	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 51
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 52
Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Paden SE

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3819933.838
Easting	378996.003

Elevation
114.885

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	12:31	12:39		U.T.C.
END TIME	12:35	12:44	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO

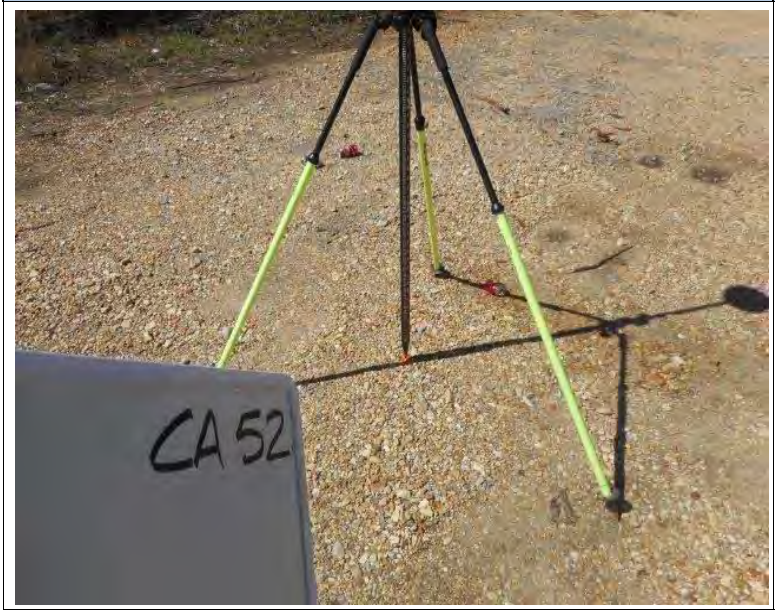


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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 52
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 53
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Marietta

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3818988.329
Easting	365148.531

Elevation
113.280

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	09:28	09:33		U.T.C.
END TIME	09:31	09:36	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO

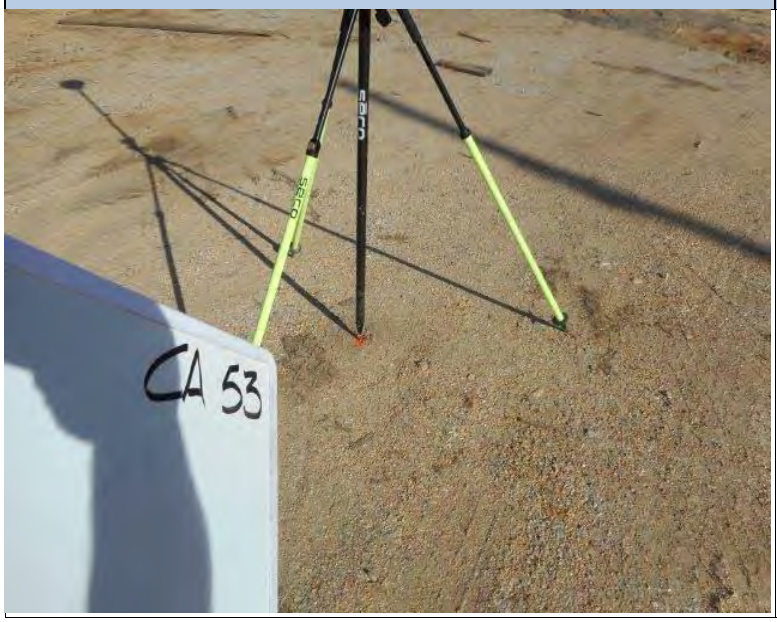


PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 53
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 54
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Baldwyn

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3820294.757	Elevation
Easting	350704.679	104.960

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	08:18	08:24		U.T.C.
END TIME	08:22	08:27	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 54
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 55
Proj. No.:	28212

STATE	MS	COUNTY	Itawamba	QUAD:	Red Bay (AL-MS)

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3805462.064
Easting	389182.507

Elevation
129.483

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	14:37	14:45		U.T.C.
END TIME	14:42	14:48	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 55
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 56
Proj. No.:	28212

STATE	MS	COUNTY	Itawamba	QUAD:	Tremont

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3786917.860
Easting	383954.686

Elevation
106.911

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	14:14	14:19		U.T.C.
END TIME	14:17	14:22	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 56
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 57
Proj. No.:	28212

STATE	MS	COUNTY	Monroe	QUAD:	Greenwood Springs

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3761453.695
Easting	383163.149

Elevation
95.469

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	15:43	15:48		U.T.C.
END TIME	15:46	15:51	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 57
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 58
Proj. No.:	28212

STATE	MS	COUNTY	Monroe	QUAD:	Greenwood Springs

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3757520.491
Easting	382946.357

Elevation
89.792

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	17:06	17:11		U.T.C.
END TIME	17:09	17:14	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 58
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 59
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Monroe	QUAD:	Amory SE

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3742096.675	Elevation
Easting	380084.970	84.552

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B	START TIME	Obs A: 18:22	ObsB: 18:27		U.T.C.
VRS	DAY OF YEAR	75	75	END TIME	18:25	18:30	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel/6" Nail

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 59
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 60
Proj. No.:	28212

STATE	MS	COUNTY	Lowndes	QUAD:	Caledonia (MS-AL)

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3727675.502
Easting	377214.138

Elevation
102.512

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	08:33	08:39		U.T.C.
END TIME	08:36	08:42	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 60
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 61
Proj. No.:	28212

STATE	MS	COUNTY	Lowndes	QUAD:	New Hope (MS-AL)

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3706964.587
Easting	379939.579

Elevation
94.764

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	10:02	10:09		U.T.C.
END TIME	10:06	10:12	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 61
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 62
Proj. No.:	28212

STATE	MS	COUNTY	Itawamba	QUAD:	Ratliff

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3806855.190
Easting	358909.545

Elevation
108.225

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	10:50	10:55		U.T.C.
END TIME	10:53	10:58	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 62
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 63
Proj. No.:	28212

STATE	MS	COUNTY	Lee	QUAD:	Evergreen

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3788881.747
Easting	357742.930

Elevation
94.456

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	10:24	10:31		U.T.C.
END TIME	10:27	10:34	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel/Mag Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 63
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:

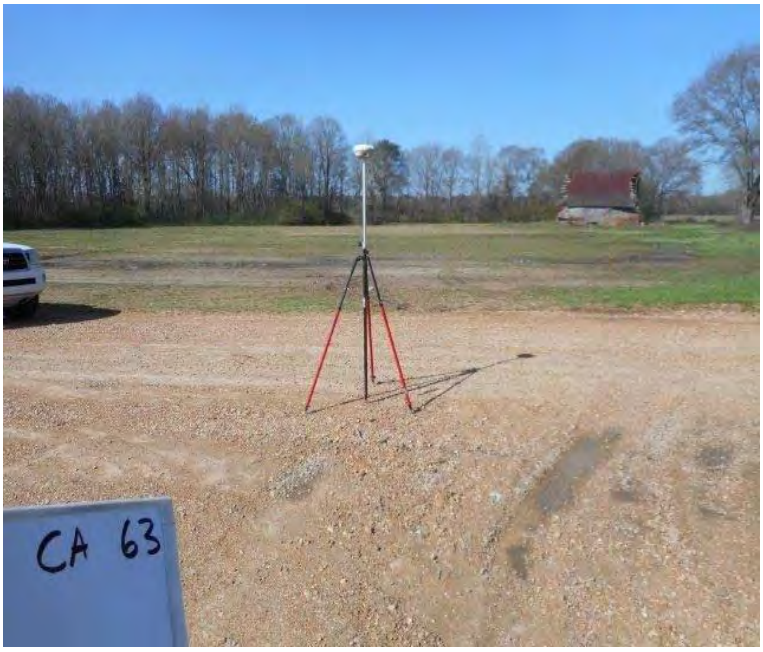


PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 64
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Marietta

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3823661.634
Easting	365790.720

Elevation
110.155

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	10:53	10:58		U.T.C.
END TIME	10:56	11:01	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 64
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 65
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Kendrick (MS-TN)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3870505.551	Elevation
Easting	373250.485	149.971

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	10:21	10:28		U.T.C.
END TIME	10:26	10:31	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 65
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 71
Proj. No.:	28212

STATE	MS	COUNTY	Itawamba	QUAD:	Beans Ferry

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3777925.680
Easting	362285.075

Elevation
105.050

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	12:16	12:22		U.T.C.
END TIME	12:20	12:25	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel/Mag Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 71
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 72
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Jumpertown

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3842050.830
Easting	347470.546

Elevation
173.771

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	15:57	16:02		U.T.C.
END TIME	16:00	16:06	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 72
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 74
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Benton	QUAD:	Canaan (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3862893.504	Elevation
Easting	297925.089	163.253

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	15:35	15:40		U.T.C.
END TIME	15:38	15:44	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 74
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 75
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Dumas

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3843706.920	Elevation
Easting	329930.238	143.461

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	09:16	09:21		U.T.C.
END TIME	09:19	09:24	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel/6" Nail

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 75
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 81
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lowndes	QUAD:	Steens (MS-AL)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3715769.639	Elevation
Easting	380424.571	80.555

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	09:34	09:41		U.T.C.
END TIME	09:38	09:44	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 81
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 82
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Monroe	QUAD:	Greeenwood Springs

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3750005.080	Elevation
Easting	379956.356	82.774

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	17:58	18:05		U.T.C.
END TIME	18:03	18:08	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 82
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

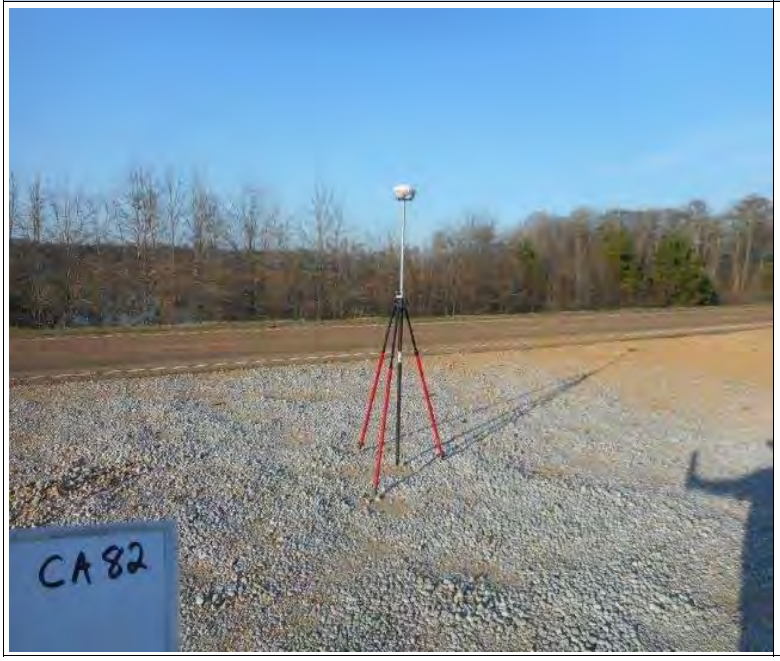


PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 83
Proj. No.:	28212

STATE	MS	COUNTY	Itawamba	QUAD:	Detroit (AL-MS)

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3775203.297
Easting	384712.522

Elevation
115.069

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	14:56	15:01		U.T.C.
END TIME	14:59	15:04	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 83
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 84
Proj. No.:	28212

STATE	MS	COUNTY	Itawamba	QUAD:	Fulton NE

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3809162.439
Easting	381097.955

Elevation
150.188

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	15:47	15:52		U.T.C.
END TIME	15:50	15:55	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 84
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 85
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Itawamba	QUAD:	Mooreville

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3797489.141	Elevation
Easting	360084.186	91.886

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	10:07	10:13		U.T.C.
END TIME	10:10	10:16	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO

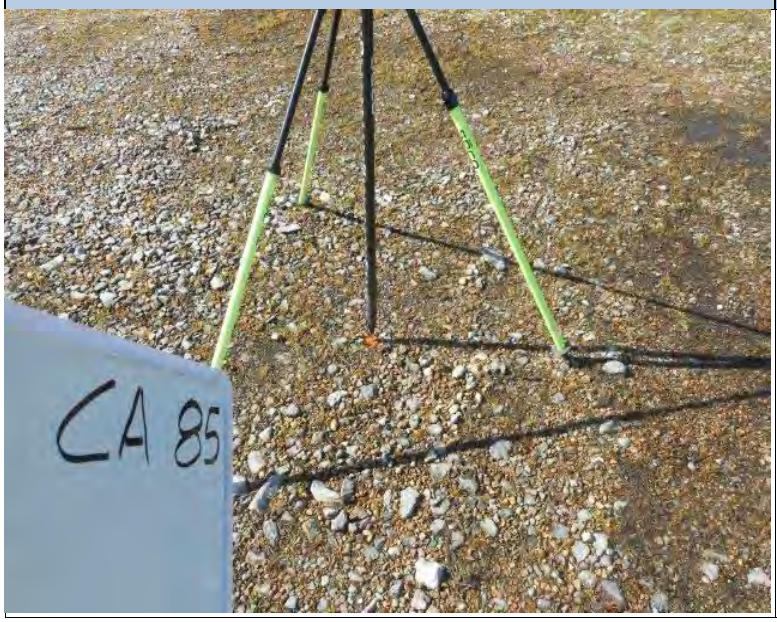


PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 85
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 86
Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Burnsville

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3855321.520
Easting	380150.175

Elevation
137.489

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	17:02	17:07		U.T.C.
END TIME	17:05	17:10	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 86
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 23
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Marshall	QUAD:	Slayden (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3872552.882	Elevation
Easting	274769.442	130.917

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	09:11	09:19		U.T.C.
END TIME	09:14	09:23	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 23
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 24
Proj. No.:	28212

STATE	MS	COUNTY	Marshall	QUAD:	Slayden (MS-TN)

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3870653.276
Easting	277123.738

Elevation
161.230

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	10:32	10:39		U.T.C.
END TIME	10:36	10:42	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

ANTENNA		
RADIUS (M)		
Antenna Serial #	5153480435	
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
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POINT ID:	BE 24
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 25
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Benton	QUAD:	Lamar (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3869392.707	Elevation
Easting	290219.864	135.696

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B	START TIME	Obs A	ObsB		U.T.C.
VRS	DAY OF YEAR	78	78	END TIME	11:49	11:57	X	LOCAL
				START TIME	11:46	11:54		U.T.C.

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 25
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 26
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Benton	QUAD:	Camp Hill (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3869186.845	Elevation
Easting	306496.587	172.693

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	14:22	14:27		U.T.C.
END TIME	14:25	14:30	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 26
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 27
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Benton	QUAD:	Camp Hill (MS-TN)

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3861736.666
Easting	315391.278

Elevation
167.095

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	17:31	17:36		U.T.C.
END TIME	17:34	17:40	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 27
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 28
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Walnut (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3869347.615	Elevation
Easting	326148.080	149.157

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	13:30	13:34		U.T.C.
END TIME	13:33	13:37	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

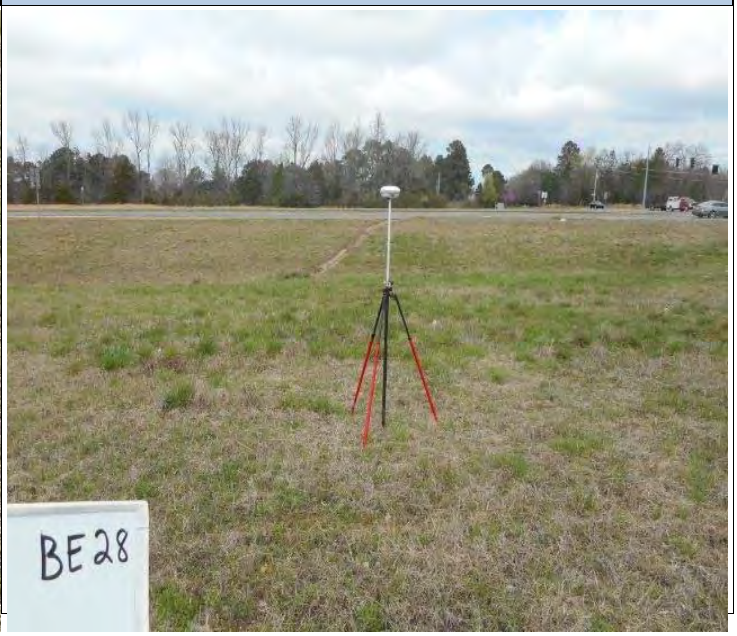
Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 28
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 29
Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Falkner

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3847335.733
Easting	326088.312

Elevation
166.644

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	10:05	10:10		U.T.C.
END TIME	10:08	10:13	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 29
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 30
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Chalybeate

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3868638.717	Elevation
Easting	335532.533	159.262

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	14:10	14:16		U.T.C.
END TIME	14:13	14:19	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 30
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 31
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Peoples

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3860483.251	Elevation
Easting	329145.734	171.572

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	12:02	12:07		U.T.C.
END TIME	12:05	12:10	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 31
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 32
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Corinth (MS-TN)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3866460.396	Elevation
Easting	356473.313	125.861

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	12:26	12:31		U.T.C.
END TIME	12:29	12:34	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 32
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 33
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Kossuth North (MS-TN)

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3862623.414
Easting	341459.840

Elevation
192.047

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	11:36	11:41		U.T.C.
END TIME	11:39	11:44	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 33
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 34
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Kossuth South

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3854083.947
Easting	341237.189

Elevation
130.591

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	VRS

	ObsA	Obs B
DATE:	03/19/16	03/19/16
DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	10:35	10:40		U.T.C.
END TIME	10:38	10:43	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 34
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 35
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Renzi

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3853270.379
Easting	352488.321

Elevation
162.313

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	09:30	09:36		U.T.C.
END TIME	09:34	09:39	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



quantum SPATIAL

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GPS CONTROL SURVEY
FIELD DATA SHEET

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2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 35
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 36
Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Dumas

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3837223.172
Easting	335157.348

Elevation
205.754

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	08:42	08:48		U.T.C.
END TIME	08:46	08:51	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 36
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 37
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Kendrick

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3863606.192
Easting	365974.324

Elevation
162.320

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	09:24	09:29		U.T.C.
END TIME	09:27	09:32	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 37
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 38
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Yellow Creek (MS-AL-TN)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3859911.500	Elevation
Easting	395130.213	189.238

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	14:41	14:46		U.T.C.
END TIME	14:44	14:49	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 38
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 39
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Yellow Creek (MS-AL-TN)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3870549.230	Elevation
Easting	386427.663	150.794

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	13:24	13:29		U.T.C.
END TIME	13:27	13:32	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO

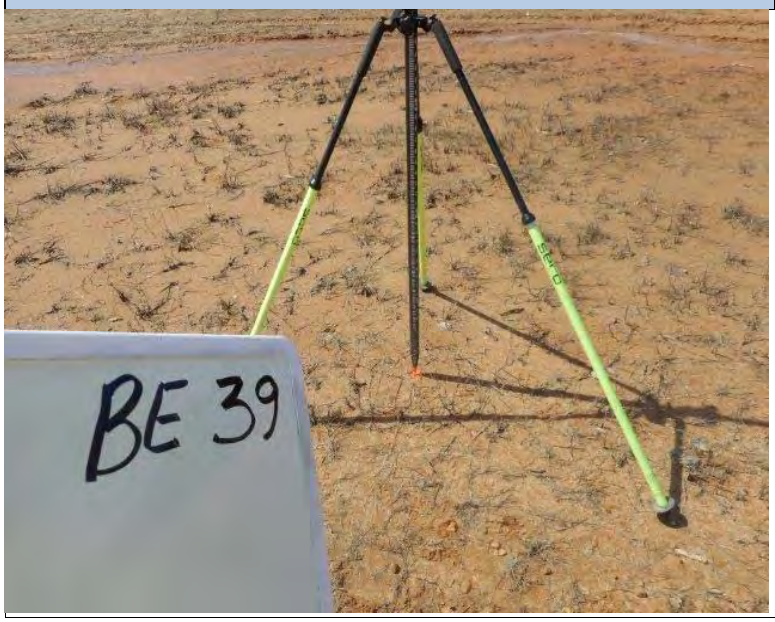


PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 39
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 40
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Glens

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3852833.770
Easting	366216.607

Elevation
134.699

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	08:05	08:10		U.T.C.
END TIME	08:08	08:14	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 40
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 41
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Booneville

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3839099.135
Easting	353916.689

Elevation
159.938

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	15:36	15:41		U.T.C.
END TIME	15:39	15:44	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 41
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 42
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Jumpertown

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3834692.723
Easting	347299.207

Elevation
131.603

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	14:08	14:14		U.T.C.
END TIME	14:11	14:17	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 42
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 43
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Altitude

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3843243.969	Elevation
Easting	367326.619	166.736

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	16:10	16:15		U.T.C.
END TIME	16:13	16:21	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO

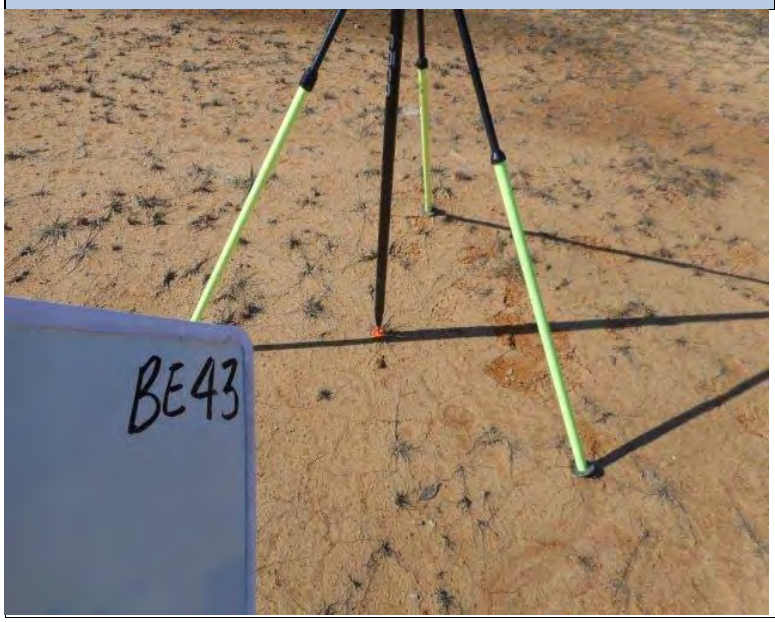


PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 43
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 44
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Paden

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3844007.749	Elevation
Easting	376494.592	155.907

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	15:34	15:40		U.T.C.
END TIME	15:37	15:43	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 44
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 45
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Tishomingo (MS-AL)

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3843151.983	Elevation
Easting	387747.994	179.171

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	17:49	17:54		U.T.C.
END TIME	17:52	17:57	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 45
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 46
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Paden SE

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3832303.318	Elevation
Easting	374507.278	116.060

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	14:34	14:41		U.T.C.
END TIME	14:37	14:44	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 46
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 47
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Tishomingo (MS-AL)

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3833231.924	Elevation
Easting	387026.816	158.219

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	16:43	16:48		U.T.C.
END TIME	16:46	16:51	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 47
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 48
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Belmont (MS-AL)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3819132.138	Elevation
Easting	388791.803	179.846

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	14:02	14:08		U.T.C.
END TIME	14:06	14:11	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 48
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

GPS CONTROL SURVEY
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 49
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Marietta

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3818874.747
Easting	365360.719

Elevation
115.913

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	09:44	09:49		U.T.C.
END TIME	09:47	09:52	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 49
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 50
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Baldwyn

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3820278.738
Easting	350688.334

Elevation
105.027

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	08:32	08:37		U.T.C.
END TIME	08:35	08:40	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 50
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 51
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Itawamba	QUAD:	Red Bay (AL-MS)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3804408.851	Elevation
Easting	389756.501	141.105

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	15:02	15:07		U.T.C.
END TIME	15:05	15:10	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA		
RADIUS (M)		
Antenna Serial #	5407484087	
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 51
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 52
Proj. No.:	28212

STATE	MS	COUNTY	Itawamba	QUAD:	Tremont

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3787383.714
Easting	384016.122

Elevation
116.189

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	13:44	13:49		U.T.C.
END TIME	13:47	13:52	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 52
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 53
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Monroe	QUAD:	Greenwood Springs

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3761420.229	Elevation
Easting	383071.465	93.575

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	16:31	16:43		U.T.C.
END TIME	16:35	16:47	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 53
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 54
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Monroe	QUAD:	Greenwood Springs

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3755119.983	Elevation
Easting	381851.607	94.553

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	17:38	17:44		U.T.C.
END TIME	17:41	17:47	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 54
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 55
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lee	QUAD:	Evergreen

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3788886.856	Elevation
Easting	357729.901	94.292

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	10:06	10:12		U.T.C.
END TIME	10:09	10:16	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 55
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 56
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Marietta

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3823619.835	Elevation
Easting	365754.625	110.615

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	10:36	10:42		U.T.C.
END TIME	10:40	10:45	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 56
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 57
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Kendrick (MS-TN)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3871085.921	Elevation
Easting	374389.921	148.359

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	11:45	11:50		U.T.C.
END TIME	11:48	11:53	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 57
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 58
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Benton	QUAD:	Lamar (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3862230.349	Elevation
Easting	290696.980	189.155

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	12:51	12:57		U.T.C.
END TIME	12:55	13:00	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 58
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 65
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Itawamba	QUAD:	Evergreen

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3777937.175	Elevation
Easting	360593.306	84.119

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	11:30	11:38		U.T.C.
END TIME	11:34	11:42	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 65
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 66
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Jumpertown

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3842004.455
Easting	347471.228

Elevation
172.755

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	16:37	16:42		U.T.C.
END TIME	16:40	16:45	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth/6" Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 66
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	UA 10
Proj. No.:	28212

STATE	MS	COUNTY	Benton	QUAD:	Camp Hill (MS-TN)

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3869247.202
Easting	306493.368

Elevation
171.393

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	13:49	13:53		U.T.C.
END TIME	13:53	13:57	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement/Mag Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 10
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 11
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Walnut (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3869267.903	Elevation
Easting	326175.272	147.622

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	13:42	13:47		U.T.C.
END TIME	13:45	13:50	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Concrete

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 11
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 12
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Peoples

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3860536.009	Elevation
Easting	329386.534	171.044

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	12:14	12:19		U.T.C.
END TIME	12:17	12:22	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 12
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 13
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Corinth (MS-TN)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3861732.123	Elevation
Easting	358204.717	127.299

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	07:51	07:57		U.T.C.
END TIME	07:54	08:01	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO

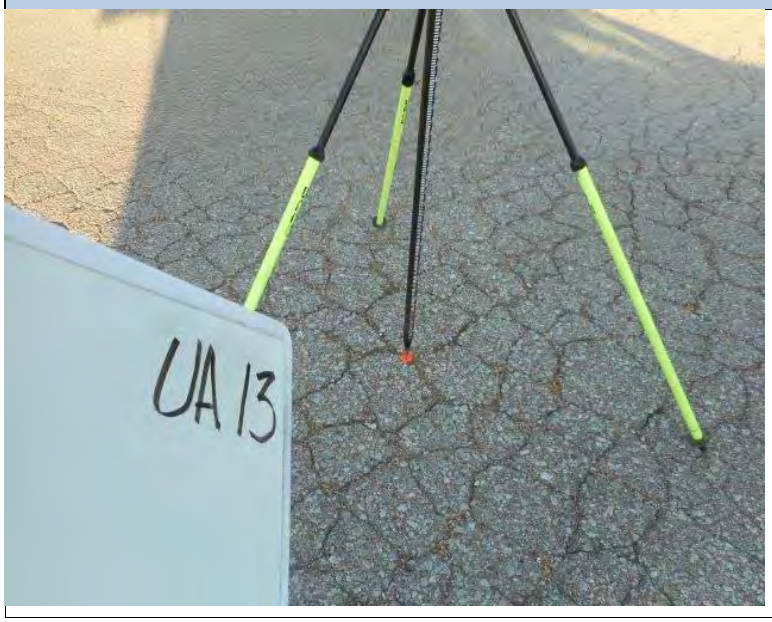
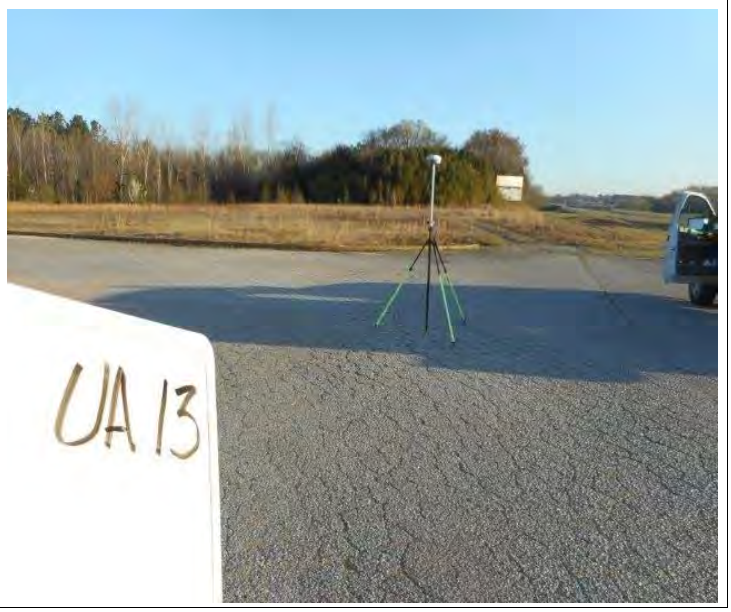


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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 13
Proj. No.:	28212

PHOTO:



PHOTO:

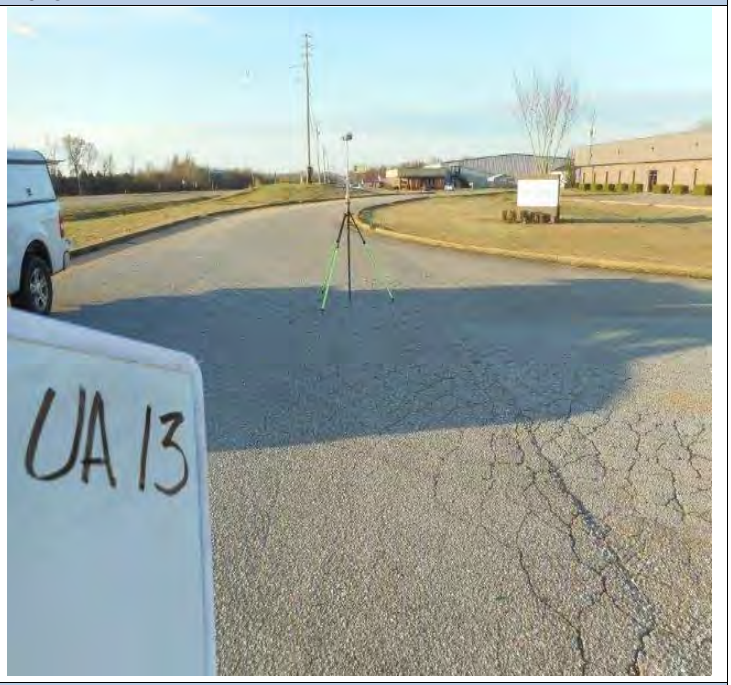


PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 14
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Dumas

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3843639.193	Elevation
Easting	337854.600	141.005

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	07:51	07:56		U.T.C.
END TIME	07:54	07:59	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 14
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 15
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Dumas

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3837201.225	Elevation
Easting	335205.798	207.298

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	08:30	08:35		U.T.C.
END TIME	08:33	08:38	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement/ Mag Nail

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 15
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 16
Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Doskie (MS-TN)

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3861424.332
Easting	379282.562

Elevation
135.925

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	17:46	17:52		U.T.C.
END TIME	17:50	17:55	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 16
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 17
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Iuka

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3852512.516	Elevation
Easting	389419.276	179.199

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	16:01	16:07		U.T.C.
END TIME	16:04	16:10	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 17
Proj. No.:	28212

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 18
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Booneville

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3832629.075	Elevation
Easting	360647.671	154.854

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	11:52	11:57		U.T.C.
END TIME	11:55	12:00	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 18
Proj. No.:	28212

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PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 19
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Tishomingo (MS-AL)

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3833327.716	Elevation
Easting	387143.769	156.380

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	16:24	16:29		U.T.C.
END TIME	16:27	16:32	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO

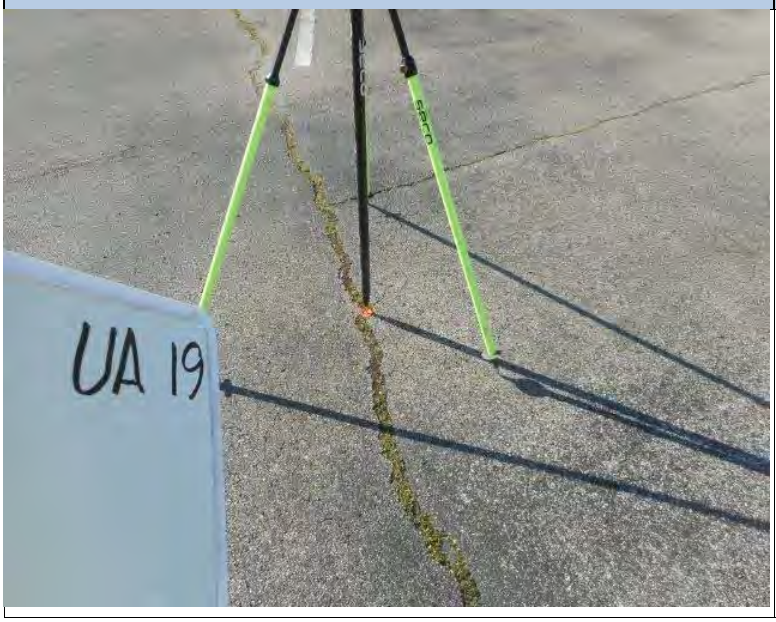


PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 19
Proj. No.:	28212

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PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE	POINT ID:	UA 20
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Belmont (MS-AL)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3819835.006	Elevation
Easting	388423.283	175.742

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	13:08	13:13		U.T.C.
END TIME	13:11	13:16	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO

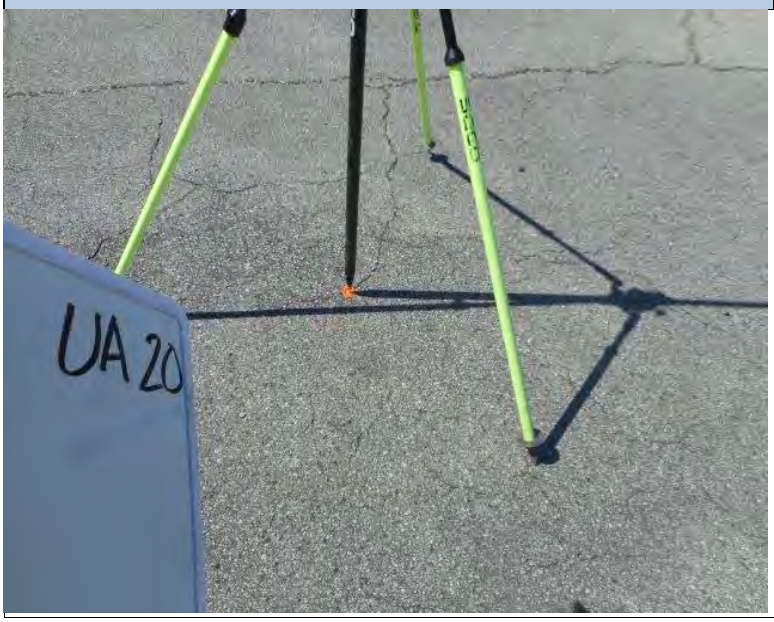


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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 20
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

GPS CONTROL SURVEY
FIELD DATA SHEET

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859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 21
Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Paden SE

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3818998.089
Easting	378700.119

Elevation
104.405

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	11:46	11:51		U.T.C.
END TIME	11:49	11:54	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 21
Proj. No.:	28212

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 22
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Marietta

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3818834.735	Elevation
Easting	365256.528	118.100

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	09:13	09:18		U.T.C.
END TIME	09:16	09:21	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO

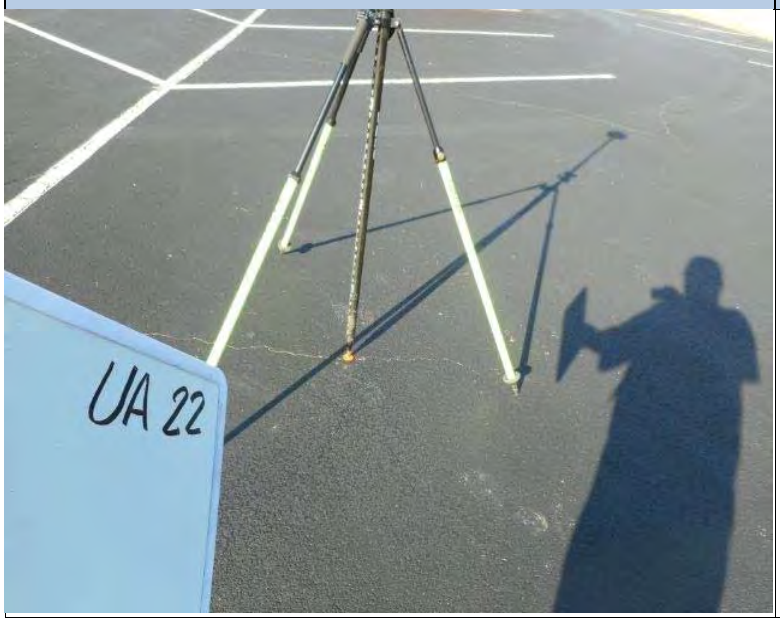


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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 22
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 23
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Baldwyn

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3820438.402	Elevation
Easting	350143.268	108.774

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	07:56	08:01		U.T.C.
END TIME	07:59	08:04	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 23
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	UA 24
Proj. No.:	28212

STATE	MS	COUNTY	Itawamba	QUAD:	Tremont

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3786929.909
Easting	384031.196

Elevation
108.407

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	14:00	14:05		U.T.C.
END TIME	14:03	14:08	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 24
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 25
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Marietta

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3823608.706
Easting	365740.393

Elevation
110.590

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	10:16	10:22		U.T.C.
END TIME	10:20	10:25	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO

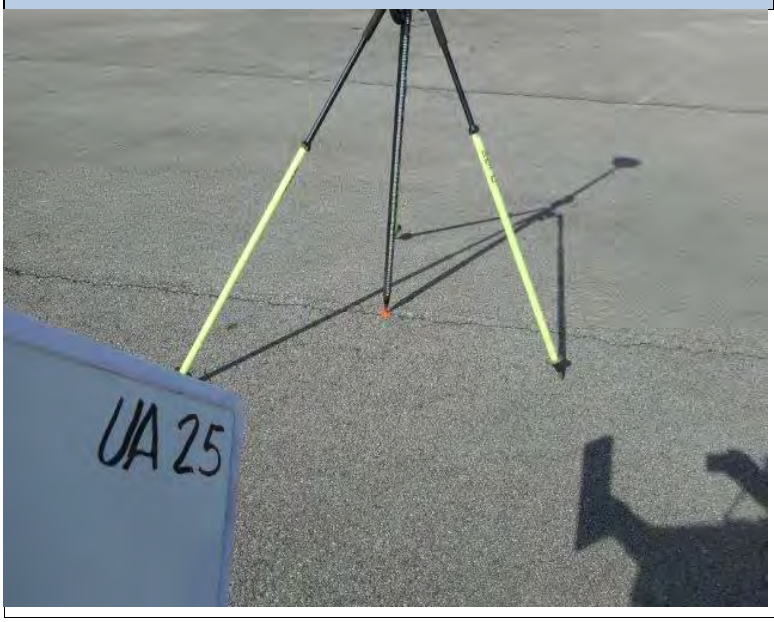
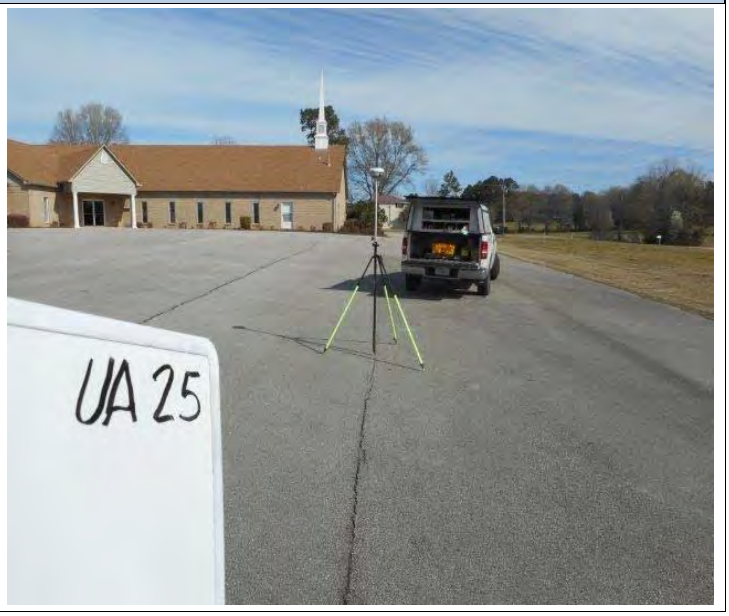


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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 25
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	UA 26
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Kendrick (MS-TN)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3871105.575
Easting	374400.902

Elevation
148.165

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	12:12	12:17		U.T.C.
END TIME	12:15	12:20	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO

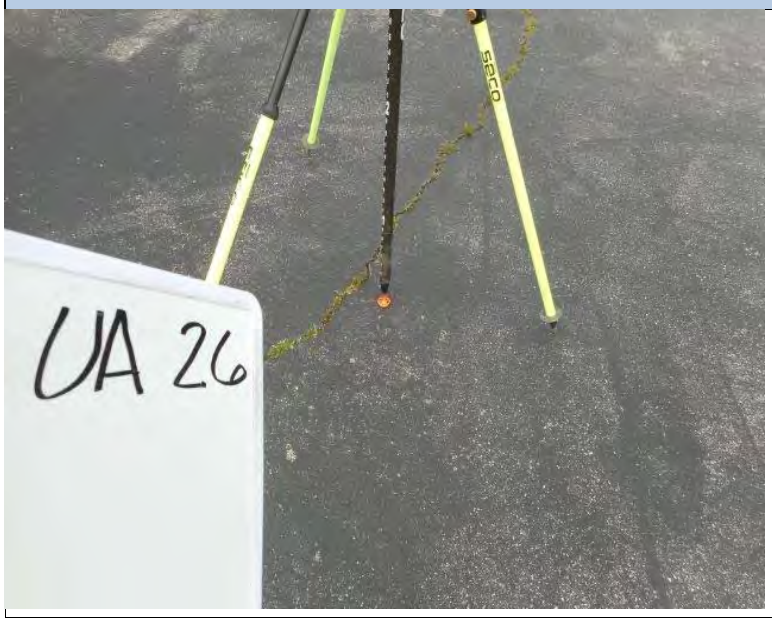


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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 26
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 27
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Benton	QUAD:	Lamar (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3862279.034	Elevation
Easting	290642.970	190.177

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	12:28	12:34		U.T.C.
END TIME	12:31	12:37	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement/Mag Nail

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 27
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO13
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Marshall	QUAD:	Sladen (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3870699.884	Elevation
Easting	277110.666	160.188

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type			

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 13
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO14
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Benton	QUAD:	Whitten Town

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3857745.756	Elevation
Easting	306464.341	202.190

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type			

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 14
Proj. No.:	28212

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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO15
Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Corinth (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3847329.915
Easting	326063.159

Elevation
165.819

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type			

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 15
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 16
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Corinth

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3865990.296	Elevation
Easting	355940.403	120.328

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 16
Proj. No.:	28212

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 17
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Peoples

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3853737.420	Elevation
Easting	333190.303	333190.303

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type			

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 17
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 18
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Renzi

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3852882.865	Elevation
Easting	351550.178	161.874

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 18
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 19
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Dumas

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3837236.239	Elevation
Easting	335156.729	205.597

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type			

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 19
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	FO 20
Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Yellow Creek (MS-AL-TN)

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3860170.489
Easting	395915.246

Elevation
194.728

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 20
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 21
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Glens

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3852768.994
Easting	366257.071

Elevation
134.357

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 21
Proj. No.:	28212

PHOTO:



PHOTO:

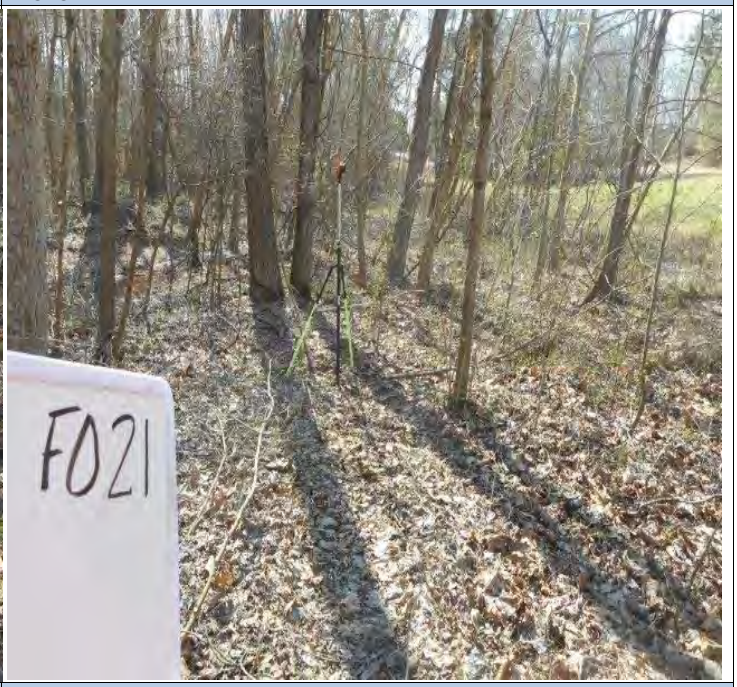


PHOTO:



PHOTO:

GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 22
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Booneville

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3839016.600
Easting	353832.003

Elevation
159.048

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type			

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 22
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 23
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Booneville

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3832562.121	Elevation
Easting	360684.595	153.238

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 23
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 24
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Altitude

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3844222.615	Elevation
Easting	366671.486	179.472

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 24
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	FO 25
Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Tishomingo (MS-AL)

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3843184.774
Easting	387825.502

Elevation
178.536

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 25
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 26
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Paden SE

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3832314.395	Elevation
Easting	374481.105	115.703

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 26
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 27
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Paden SE

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3819043.870	Elevation
Easting	378627.175	103.624

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 27
Proj. No.:	28212

PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	FO 28
Proj. No.:	28212

STATE	MS	COUNTY	Itawamba	QUAD:	Red Bay (AL-MS)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3805558.289
Easting	389201.728

Elevation
128.076

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type			

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 28
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 29
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Monroe	QUAD:	Greenmwood Springs

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3761500.665	Elevation
Easting	383192.173	92.642

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS		ObsA	Obs B
Conventional	DATE:	03/17/16	03/17/16
	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type			

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 29
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 30
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lowndes	QUAD:	New Hope (MS-AL)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3706934.757	Elevation
Easting	379873.027	91.639

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type			

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 30
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	FO 31
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Marietta

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3822786.904
Easting	365785.884

Elevation
104.930

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

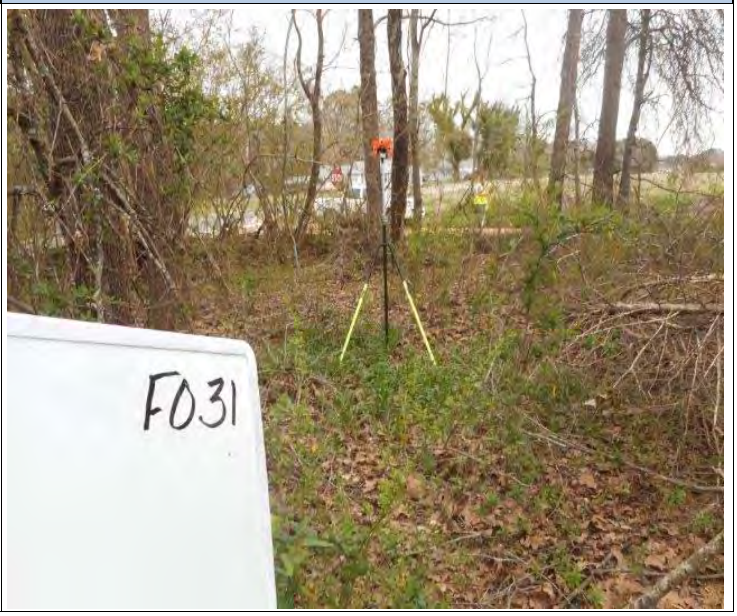
Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 31
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 32
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Kendrick (MS-TN)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3871088.911	Elevation
Easting	374351.827	149.402

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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859-277-8700 voice 859-277-8901 fax

GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 32
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 33
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Benton	QUAD:	Lamar (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3862252.850	Elevation
Easting	290713.106	188.922

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type			

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 33
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 40
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Itawamba	QUAD:	Beans Ferry

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3778120.164	Elevation
Easting	362561.226	106.457

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type			

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 40
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	FO 41
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Jumpertown

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3841991.635
Easting	347426.519

Elevation
173.963

SESSIONS	DATE:	ObsA	Obs B
Conventional	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	conventional	conventional		U.T.C.
END TIME	conventional	conventional	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type			

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 41
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	SH 01
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Doskie (MS-TN)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3872740.473
Easting	374731.538

Elevation
139.364

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	11:04	11:09		U.T.C.
END TIME	11:07	11:12	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Shrubs

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	**SH 01**
Proj. No.:	**28212**

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	SH 07
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Itawamba	QUAD:	Evergreen

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3777913.987
Easting	361415.016

Elevation
87.830

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	11:50	11:56		U.T.C.
END TIME	11:54	11:59	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Shrub

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	SH 07
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	SH 08
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Jumpertown

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3840866.698
Easting	346521.957

Elevation
172.483

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	17:08	17:14		U.T.C.
END TIME	17:11	17:17	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Shrub

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	SH 08
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	Sh 12
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lowndes	QUAD:	New Hope (MS-AL)

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3706545.799	Elevation
Easting	380304.144	96.974

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	11:00	11:07		U.T.C.
END TIME	11:03	11:10	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Shrub

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	SH 12
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	SH 13
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Benton	QUAD:	Canaan (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3862968.902	Elevation
Easting	297948.248	162.503

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	15:21	15:27		U.T.C.
END TIME	15:25	15:30	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Shrub

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	SH 13
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	SH 14
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Dumas

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3843770.748	Elevation
Easting	328595.098	165.444

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	09:42	09:48		U.T.C.
END TIME	09:45	09:51	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Shrub

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	SH 14
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	TW 09
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Walnut (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3869541.701	Elevation
Easting	326168.597	154.758

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	12:58	13:03		U.T.C.
END TIME	13:01	13:07	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

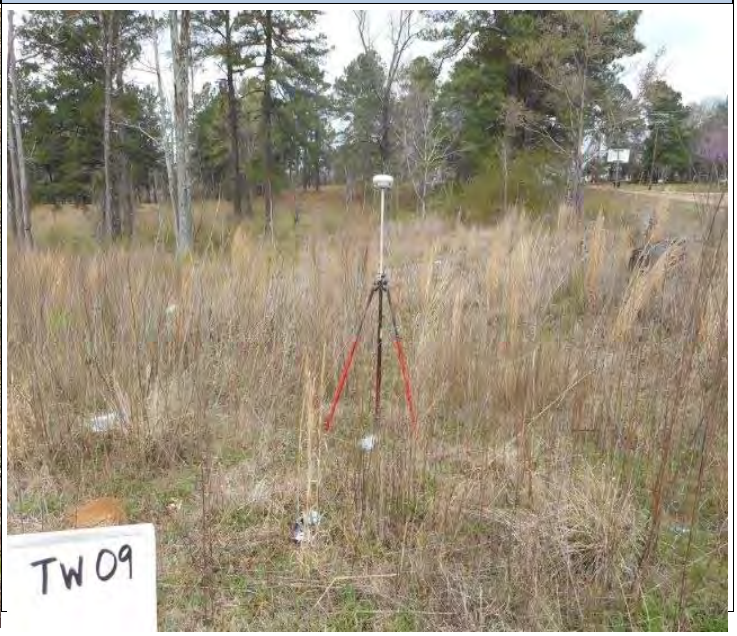
Tall Weeds

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 09
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	TW 10
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Corinth (MS-TN)

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3866118.576	Elevation
Easting	356144.612	123.754

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	12:42	12:47		U.T.C.
END TIME	12:45	12:50	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Tall Weeds

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 10
Proj. No.:	28212

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PHOTO:



PHOTO:

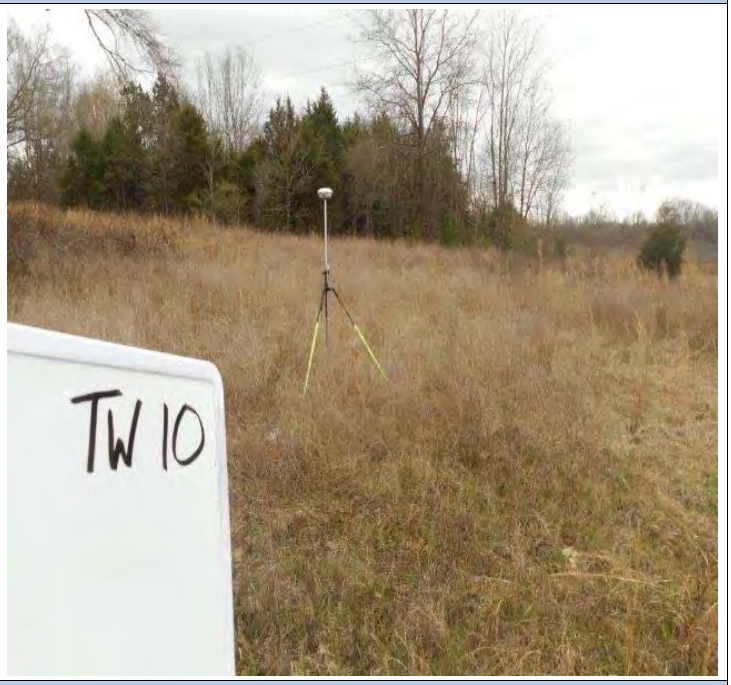


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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	TW 11
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Kossuth South

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3854010.886
Easting	341300.528

Elevation
128.929

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	09:58	10:04		U.T.C.
END TIME	10:02	10:07	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Tall Weeds

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 11
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	TW 12
Proj. No.:	28212

STATE	MS	COUNTY	Tippah	QUAD:	Dumas

OPERATOR	D. Griggs

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3842632.172
Easting	337914.547

Elevation
143.290

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	08:07	08:12		U.T.C.
END TIME	08:10	08:15	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Tall Weeds

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 12
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	TW 13
Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Yellow Creek (MS-AL-TN)

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3871069.282
Easting	386305.696

Elevation
144.450

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	13:04	13:09		U.T.C.
END TIME	13:07	13:12	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Tall Weeds

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 13
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	TW 14
Proj. No.:	28212

STATE	MS	COUNTY	Prentiss	QUAD:	Booneville

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3832924.949
Easting	360357.411

Elevation
155.547

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	12:25	12:39		U.T.C.
END TIME	12:28	12:42	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Tall Weeds

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 14
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	TW 15
Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Tishomingo (MS-AL)

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3844047.418
Easting	387935.103

Elevation
176.453

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	18:27	18:33		U.T.C.
END TIME	18:30	18:36	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Tall Weeds

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 15
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	TW 16
Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Belmont (MS-AL)

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3819295.069
Easting	388682.914

Elevation
177.993

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	13:47	13:52		U.T.C.
END TIME	13:50	13:55	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Tall Weeds

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	**TW 16**
Proj. No.:	**28212**

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	TW 17
Proj. No.:	28212

STATE	MS	COUNTY	Tishomingo	QUAD:	Paden SE

OPERATOR	K.Roberts

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3818702.963
Easting	379296.229

Elevation
111.329

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	12:11	12:16		U.T.C.
END TIME	12:14	12:19	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Tall Weeds

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO

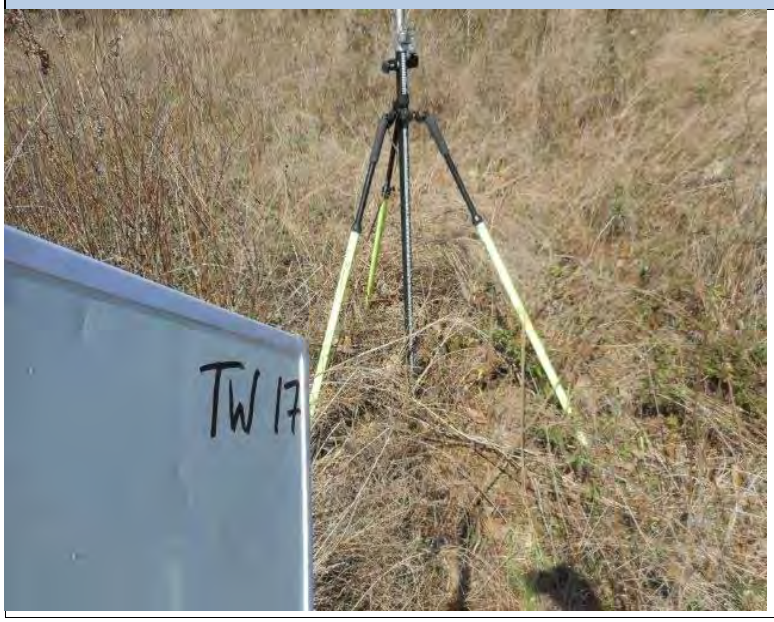


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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 17
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 18
Proj. No.:	28212

STATE	MS	COUNTY	Alcorn	QUAD:	Kendrick (MS-TN)

OPERATOR	K.Roberts

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS2DC48130

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3869815.018
Easting	373841.895

Elevation
127.604

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	11:23	11:28		U.T.C.
END TIME	11:26	11:31	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Tall Weeds

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 18
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	TW 8
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Marshall	QUAD:	Slayden (MS-TN)

OPERATOR	D. Griggs

NAD83(2011) UTM 16N NAVD88 AVERAGED POSITION Meters

Northing	3870010.106	Elevation
Easting	276930.961	172.267

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS0TC15523

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	09:45	09:50		U.T.C.
END TIME	09:48	09:55	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5153480435		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Tall Weeds

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 8
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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Log Data Sheets

South Site

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 01
Proj. No.:	28212

STATE	MS	COUNTY	Greene	QUAD:	Leakesville SW

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	552070.27
Easting	1021912.38

Elevation
96.50

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	11:17	15:23		U.T.C.
END TIME	11:20	15:26	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)			
MTRS/FT	1.800 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 01
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

PHOTO:

GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 02
Proj. No.:	28212

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STATE	MS	COUNTY	Greene	QUAD:	McLain

OPERATOR	W. Neville

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	582115.07
Easting	988389.92

Elevation
77.24

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	13:34	16:06		U.T.C.
END TIME	13:37	16:09	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)			
MTRS/FT	1.800 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Bare Earth)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 02
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 03
Proj. No.:	28212

STATE	MS	COUNTY	Greene	QUAD:	McLain

OPERATOR	W. Neville

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	550534.81
Easting	995095.52

Elevation
103.30

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	14:35	17:00		U.T.C.
END TIME	14:38	17:03	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)			
MTRS/FT	1.800 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Bare Earth)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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FIELD DATA SHEET

JOB REFERENCE
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POINT ID:	CA 03
Proj. No.:	28212

PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 04
Proj. No.:	28212

STATE	MS	COUNTY	PERRY	QUAD:	Beaumont

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	607755.49
Easting	957206.29

Elevation
93.63

RECEIVER MODEL	Trimble R8
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	11:47	11:52		U.T.C.
END TIME	11:50	11:55	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)			
MTRS/FT	1.800 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 04
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 05
Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	New Augusta

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	618974.01
Easting	920151.43

Elevation
106.71

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS04C00651

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	

	Obs A	ObsB		
START TIME	12:41			U.T.C.
END TIME	12:49		X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	1.800 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
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POINT ID:	CA 05
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 06
Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Taylor Hill

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	556881.26
Easting	935896.32

Elevation
276.30

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	

	Obs A	ObsB		
START TIME	15:18			U.T.C.
END TIME	15:21		X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)			
MTRS/FT	1.800 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 06
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 07
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Carnes

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	543433.01	Elevation
Easting	850615.73	322.98

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	10:41	10:47		U.T.C.
END TIME	10:44	10:50	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 07
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 08
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Brooklyn

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	569523.83	Elevation
Easting	866746.86	200.47

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	12:09	12:14		U.T.C.
END TIME	12:12	12:17	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 08
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 09
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Purvis

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	599412.83
Easting	805636.33

Elevation
359.25

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	09:58	10:03		U.T.C.
END TIME	10:01	10:06	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Bare Earth)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 09
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 10
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Baxterville

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	574532.22	Elevation
Easting	748001.54	403.51

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	14:01	14:06		U.T.C.
END TIME	14:04	14:09	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 10
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 11
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Oloh

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	652551.91	Elevation
Easting	752267.33	412.78

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	13:20	13:25		U.T.C.
END TIME	13:23	13:28	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 11
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 12
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Carterville

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	645238.87	Elevation
Easting	854347.55	142.30

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	11:26	11:33		U.T.C.
END TIME	11:29	11:36	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 12
Proj. No.:	28212

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PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 13
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Hattiesburg

OPERATOR	K.Chapman

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	670419.12
Easting	844548.12

Elevation
149.91

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	11:39	11:46		U.T.C.
END TIME	11:43	11:49	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 13
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 14
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Sanford

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	695711.31	Elevation
Easting	806920.13	213.12

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	09:33	09:40		U.T.C.
END TIME	09:36	09:43	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 14
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 15
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Sumrall

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	688194.92	Elevation
Easting	762125.09	363.27

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	13:26	13:31		U.T.C.
END TIME	13:29	13:35	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Bare Earth)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 15
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 16
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	McLaurin

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	614452.08
Easting	869932.14

Elevation
275.74

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	13:15	13:22		U.T.C.
END TIME	13:18	13:25	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 16
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 66
Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Avent

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	514030.91
Easting	976571.25

Elevation
208.88

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	13:39	13:44		U.T.C.
END TIME	13:42	13:47	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)			
MTRS/FT	1.800 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 66
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 67
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Lumberton

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	546640.51
Easting	791324.90

Elevation
271.57

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	10:25	10:30		U.T.C.
END TIME	10:28	10:33	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA		
RADIUS (M)		
Antenna Serial #	5046455718	
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 67
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 68
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Baxterville

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	614286.09	Elevation
Easting	756451.64	353.52

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	11:16	11:21		U.T.C.
END TIME	11:19	11:24	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Bare Earth)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 68
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 69
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Bond Pond

OPERATOR	W. Neville

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	521387.75
Easting	907205.77

Elevation
270.60

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	16:29	16:34		U.T.C.
END TIME	16:32	16:37	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 69
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 70
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Barrontown

OPERATOR	K.Chapman

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	698379.19
Easting	874867.93

Elevation
234.50

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	14:18	14:25		U.T.C.
END TIME	14:21	14:28	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 70
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 73
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Carterville

OPERATOR	K.Chapman

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	674147.52
Easting	878714.67

Elevation
254.50

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	08:26	08:37		U.T.C.
END TIME	08:29	08:40	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 73
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 76
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Dixie

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	626183.55
Easting	819109.04

Elevation
365.07

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	10:19	10:29		U.T.C.
END TIME	10:22	10:32	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 76
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 77
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Sumrall

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	701192.93	Elevation
Easting	739333.82	418.69

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	14:26	14:31		U.T.C.
END TIME	14:29	14:34	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 77
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 78
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Lumberton

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	577577.36
Easting	796410.56

Elevation
320.30

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	08:53	08:58		U.T.C.
END TIME	08:56	09:01	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 78
Proj. No.:	28212

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 79
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Bond

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	527541.73
Easting	872992.91

Elevation
314.11

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	09:21	09:27		U.T.C.
END TIME	09:24	09:30	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 79
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 80
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Carterville

OPERATOR	K.Chapman

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	643557.43
Easting	873921.04

Elevation
159.55

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	12:01	12:06		U.T.C.
END TIME	12:04	12:09	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 80
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 87
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Rock Hill

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	577098.55
Easting	836626.64

Elevation
323.54

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	11:53	12:00		U.T.C.
END TIME	11:56	12:03	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 87
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 88
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Dixie

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	591830.07
Easting	850067.18

Elevation
294.55

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	12:18	12:25		U.T.C.
END TIME	12:21	12:28	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Bare Earth)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 88
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 89
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Lumberton

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	561735.88	Elevation
Easting	808958.75	332.88

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	09:51	09:56		U.T.C.
END TIME	09:54	09:59	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 89
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 90
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Baxterville

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	564634.20
Easting	751660.51

Elevation
384.77

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	12:43	12:48		U.T.C.
END TIME	12:46	12:51	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 90
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
1

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 91
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Oloh

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	639368.78
Easting	739502.15

Elevation
322.55

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	12:55	13:01		U.T.C.
END TIME	12:58	13:04	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Bare Earth)

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 91
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 92
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Pine Bur

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	618259.54
Easting	733586.42

Elevation
381.44

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	12:30	12:35		U.T.C.
END TIME	12:33	12:38	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 92
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 93
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Hattiesburg SW

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	664343.84
Easting	782501.00

Elevation
351.13

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	13:53	13:59		U.T.C.
END TIME	13:57	14:02	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Bare Earth)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 93
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 94
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Hattiesburg SW

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	644616.84	Elevation
Easting	802520.61	408.76

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	09:44	09:49		U.T.C.
END TIME	09:47	09:52	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 94
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 95
Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Richton

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	642708.33
Easting	945858.56

Elevation
233.18

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS04C00651

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	12:21	12:26		U.T.C.
END TIME	12:24	12:29	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 95
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	CA 96
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Brooklyn

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	566703.26	Elevation
Easting	892721.64	136.70

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS04C00651

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	15:18	15:24		U.T.C.
END TIME	15:21	15:27	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Bare Earth)

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



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FIELD DATA SHEET

JOB REFERENCE
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POINT ID:	CA 96
Proj. No.:	28212

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	CA 97
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Carnes

OPERATOR	K.Chapman

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	531578.87
Easting	829200.52

Elevation
267.59

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	09:56	10:03		U.T.C.
END TIME	09:59	10:06	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Calibration Point (Gravel)

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	CA 97
Proj. No.:	28212

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 1
Proj. No.:	28212

STATE	MS	COUNTY	Greene	QUAD:	Leakesville SW

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	552655.38
Easting	1020723.65

Elevation
125.47

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	10:39	15:09		U.T.C.
END TIME	10:43	15:12	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)			
MTRS/FT	1.800 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	**BE 1**
Proj. No.:	**28212**

PHOTO:



PHOTO:



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FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 2
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Greene	QUAD:	McLain

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	582309.26	Elevation
Easting	988375.58	77.87

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	12:43	15:52		U.T.C.
END TIME	12:46	15:55	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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POINT ID:	BE 2
Proj. No.:	28212

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PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

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1

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 3
Proj. No.:	28212

STATE	MS	COUNTY	Greene	QUAD:	McLain

OPERATOR	W. Neville

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	550457.37
Easting	995421.26

Elevation
96.50

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	14:23	16:50		U.T.C.
END TIME	14:26	16:53	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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FIELD DATA SHEET

JOB REFERENCE
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POINT ID:	BE 3
Proj. No.:	28212

PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 4
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Beaumont

OPERATOR	W. Neville

RECEIVER MODEL	Trimble R8
RECEIVER S/N	150893

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	609248.06
Easting	956785.29

Elevation
90.84

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	11:22	11:26		U.T.C.
END TIME	11:25	11:29	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 4
Proj. No.:	28212

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 5
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	New Augusta

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	618721.79	Elevation
Easting	923471.88	145.36

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS04C00651

SESSIONS	DATE:	ObsA	Obs B	START TIME	Obs A: 13:16	ObsB: 13:22		U.T.C.
VRS	DAY OF YEAR	79	79	END TIME	13:19	13:28	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 5
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 6
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Taylor Hill

OPERATOR	W. Neville

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	556673.57
Easting	936068.48

Elevation
274.16

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	15:41	15:46		U.T.C.
END TIME	15:44	15:50	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 6
Proj. No.:	28212

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 07
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Carnes

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	543454.05	Elevation
Easting	849823.48	301.93

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	10:58	11:04		U.T.C.
END TIME	11:01	11:07	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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FIELD DATA SHEET

JOB REFERENCE
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POINT ID:	BE 07
Proj. No.:	28212

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 08
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Brooklyn

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	569560.60
Easting	867239.21

Elevation
211.34

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	11:41	11:46		U.T.C.
END TIME	11:44	11:49	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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JOB REFERENCE
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POINT ID:	BE 08
Proj. No.:	28212

PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE9
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Purvis

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	599467.25	Elevation
Easting	805698.92	355.80

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	09:34	09:39		U.T.C.
END TIME	09:37	09:42	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

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Proj. No.:	28212

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 10
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Baxterville

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	574670.08	Elevation
Easting	747697.66	406.65

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	13:49	13:54		U.T.C.
END TIME	13:52	13:57	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 10
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 11
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Oloh

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	652095.53	Elevation
Easting	751681.57	409.09

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS		ObsA	Obs B
VRS	DATE:	03/19/16	03/19/16
	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	13:38	13:43		U.T.C.
END TIME	13:41	13:50	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 11
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 12
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Oloh

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	653469.05	Elevation
Easting	752760.79	406.36

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	14:14	14:19		U.T.C.
END TIME	14:17	14:22	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

BARE EARTH

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 12
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 13
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Baxterville

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	573082.31	Elevation
Easting	746361.00	391.62

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	13:11	13:17		U.T.C.
END TIME	13:14	13:19	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

BARE EARTH

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 13
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 14
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Carterville

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	645261.96
Easting	854996.65

Elevation
142.07

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	11:06	11:14		U.T.C.
END TIME	11:09	11:17	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 14
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 15
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Hattiesburg

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	668075.65
Easting	844960.21

Elevation
139.59

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	10:57	11:06		U.T.C.
END TIME	11:00	11:09	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO

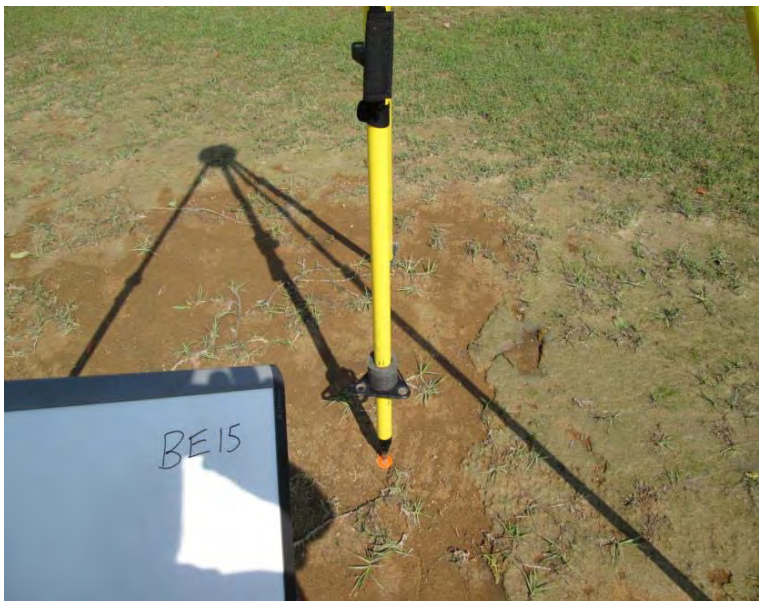


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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 15
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 16
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Hattiesburg

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	668941.15
Easting	841005.60

Elevation
143.33

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	12:35	12:41		U.T.C.
END TIME	12:38	12:44	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 16
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 17
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Sanford

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	695611.78	Elevation
Easting	807371.72	207.44

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	09:12	09:18		U.T.C.
END TIME	09:15	09:21	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 17
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 18
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Sanford

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	698469.53
Easting	803604.50

Elevation
231.24

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	13:48	13:55		U.T.C.
END TIME	13:51	13:58	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 18
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 19
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Sumrall

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	688185.91	Elevation
Easting	762175.46	362.86

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	13:15	13:21		U.T.C.
END TIME	13:18	13:24	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 19
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 20
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Sumrall

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	689705.02
Easting	763133.13

Elevation
359.88

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	13:00	13:05		U.T.C.
END TIME	13:03	13:08	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 20
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 21
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Carnes

OPERATOR	K.Chapman

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	541144.55
Easting	850877.39

Elevation
304.96

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	11:15	11:21		U.T.C.
END TIME	11:18	11:24	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 21
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

GPS CONTROL SURVEY
FIELD DATA SHEET

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1

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 22
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	McLaurin

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	613853.41
Easting	869912.26

Elevation
279.37

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	12:57	13:04		U.T.C.
END TIME	13:00	13:07	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 22
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	BE 59
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Avent

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	514043.30	Elevation
Easting	976537.13	207.84

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	13:54	14:01		U.T.C.
END TIME	13:57	14:04	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)			
MTRS/FT	1.800 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 59
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

PHOTO:

GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 60
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Lumberton

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	547003.93
Easting	791314.98

Elevation
267.95

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	11:02	11:07		U.T.C.
END TIME	11:05	11:10	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 60
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 61
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Baxterville NE

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	615436.21
Easting	756908.88

Elevation
330.31

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	11:29	11:38		U.T.C.
END TIME	11:32	11:41	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 61
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 62
Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Bond Pond

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	521336.75
Easting	907211.81

Elevation
269.44

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	16:43	16:49		U.T.C.
END TIME	16:46	16:52	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)			
MTRS/FT	1.800 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Gravel

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 62
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

PHOTO:

GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 63
Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Neely

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	635866.89
Easting	980449.58

Elevation
152.54

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS04C00651

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	10:33	10:38		U.T.C.
END TIME	10:36	10:41	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 63
Proj. No.:	28212

PHOTO:



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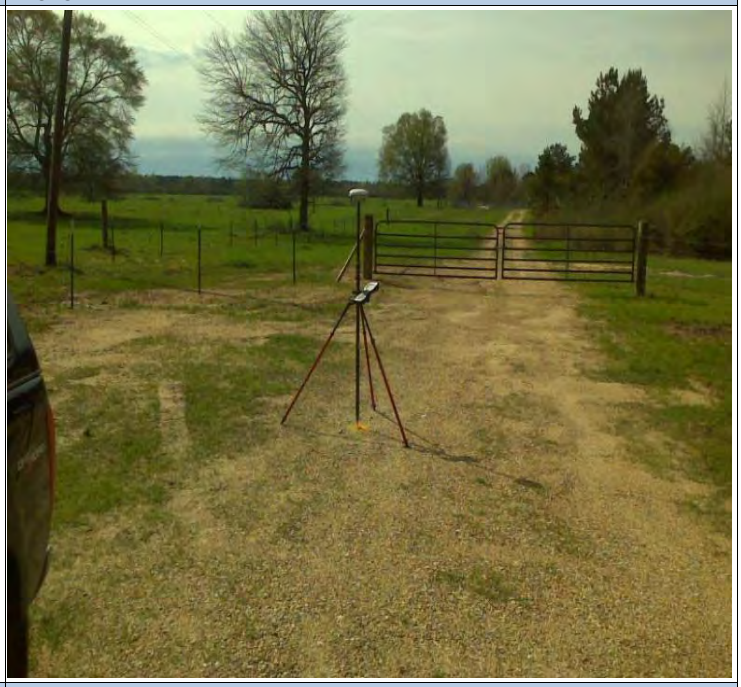


PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 64
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Barrontown

OPERATOR	K.Chapman

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	698842.41
Easting	874675.77

Elevation
234.34

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	14:38	14:44		U.T.C.
END TIME	14:41	14:47	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Bare Earth

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO

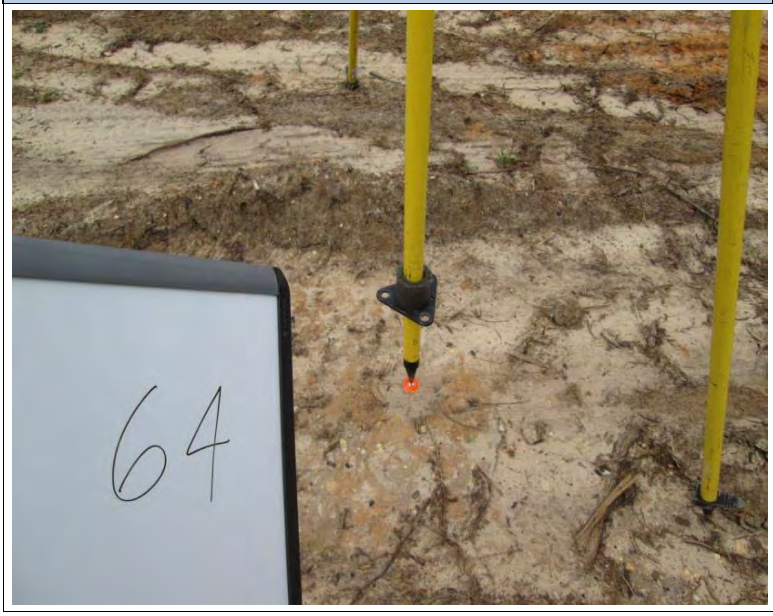


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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	234.34	BE 64
Proj. No.:		28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	BE 67
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Carterville

OPERATOR	K.Chapman

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	673783.54
Easting	878636.13

Elevation
260.52

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	08:45	08:51		U.T.C.
END TIME	08:48	08:54	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	BE 67
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	UA 01
Proj. No.:	28212

STATE	MS	COUNTY	Greene	QUAD:	Leakesville SW

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	551898.18	Elevation
Easting	1021803.10	96.14

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	11:02	15:16		U.T.C.
END TIME	11:05	15:19	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 01
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 02
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Greene	QUAD:	McLain

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	581998.89	Elevation
Easting	988915.66	77.46

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	12:59	16:14		U.T.C.
END TIME	13:02	16:17	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 02
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 03
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Greene	QUAD:	Avent

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	544856.84	Elevation
Easting	999359.84	81.89

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	14:08	16:37		U.T.C.
END TIME	14:11	16:40	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	**UA 03**
Proj. No.:	**28212**

PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 04
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Beaumont

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	607208.20	Elevation
Easting	957232.14	93.40

RECEIVER MODEL	Trimble R8
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	77	77

	Obs A	ObsB		
START TIME	12:16	12:20		U.T.C.
END TIME	12:19	12:23	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 04
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 05
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	New Augusta

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	619603.76	Elevation
Easting	921240.43	110.06

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS04C00651

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	12:59	13:03		U.T.C.
END TIME	13:02	13:06	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 05
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 06
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Carnes

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	543365.86	Elevation
Easting	850701.04	325.56

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B	START TIME	Obs A: 10:24	ObsB: 10:29		U.T.C.
VRS	DAY OF YEAR	80	80	END TIME	10:27	10:32	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 06
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	UA 07
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Brooklyn

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	569554.10
Easting	866525.65

Elevation
200.99

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	11:57	12:02		U.T.C.
END TIME	12:00	12:05	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 07
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 08
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Hattiesburg

OPERATOR	K.Chapman

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	668143.52
Easting	844723.67

Elevation
139.26

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	10:26	10:32		U.T.C.
END TIME	10:29	10:35	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO

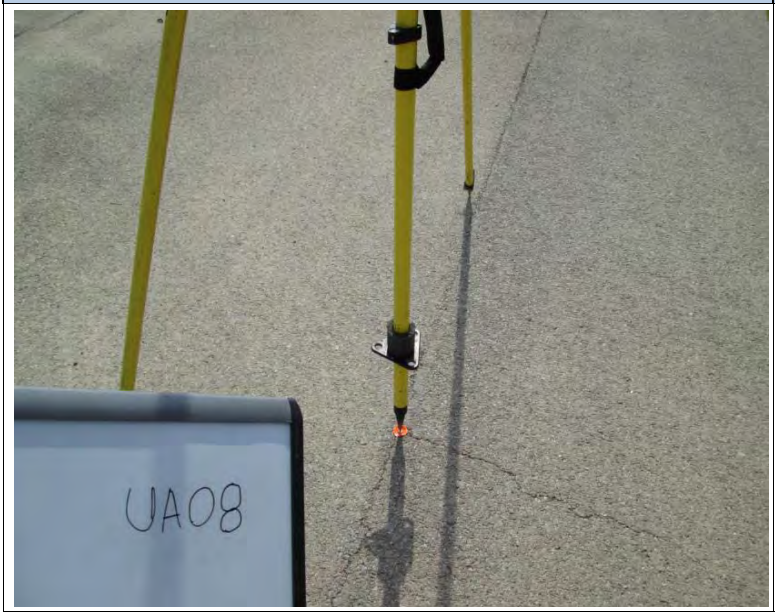


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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 08
Proj. No.:	28212

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PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	UA 09
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Sanford

OPERATOR	K.Chapman

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	695826.29
Easting	807247.63

Elevation
206.66

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	08:58	09:05		U.T.C.
END TIME	09:01	09:08	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 09
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 28
Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Avent

OPERATOR	W. Neville

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	514014.95
Easting	976572.58

Elevation
208.53

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	14:11	14:19		U.T.C.
END TIME	14:14	14:23	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 28
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 29
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Lumberton

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	546597.34	Elevation
Easting	791460.13	267.92

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	10:14	10:19		U.T.C.
END TIME	10:17	10:22	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 29
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 30
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Baxterville

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	614555.61	Elevation
Easting	756584.59	344.41

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	10:48	10:53		U.T.C.
END TIME	10:51	10:56	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 30
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	UA 31
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Bond Pond

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	521356.61	Elevation
Easting	907222.80	270.59

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	16:29	16:34		U.T.C.
END TIME	16:32	16:37	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)			
MTRS/FT	1.800 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 31
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	UA 32
Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Neely

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	635967.06
Easting	981503.18

Elevation
177.27

RECEIVER MODEL	Trimble R8
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	3/17/2016	3/17/2016

	Obs A	ObsB		
START TIME	13:58	14:13		U.T.C.
END TIME	14:03	14:16	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)			
MTRS/FT	1.800 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Pavement

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO

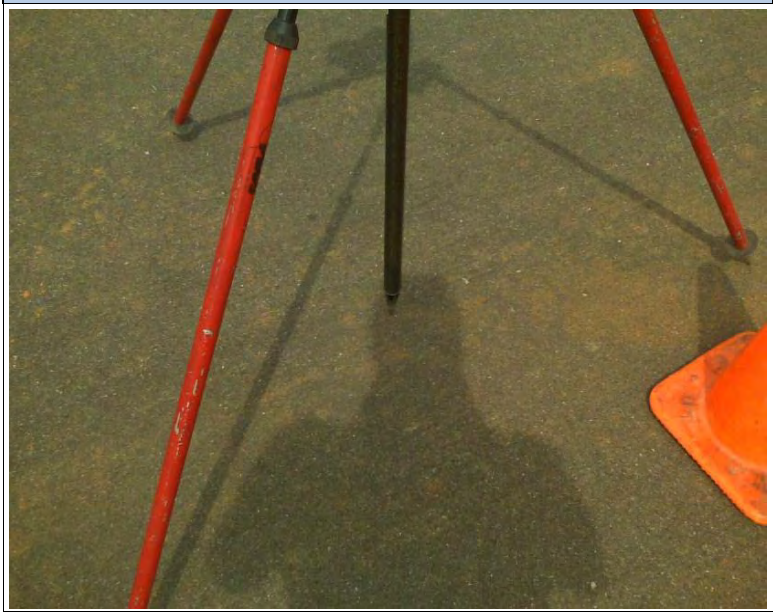


PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	UA 32
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

PHOTO:

GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 01
Proj. No.:	28212

STATE	MS	COUNTY	Greene	QUAD:	Leakesville SW

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	551630.69
Easting	1020712.85

Elevation
93.26

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	82	82

START TIME	Obs A: CONVENTIONAL	ObsB		U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

FORESTED

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 01
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	Conve	FO 02
Proj. No.:		28212

STATE	MS	COUNTY	Greene	QUAD:	McLain

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	581361.63
Easting	987717.47

Elevation
75.66

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	82	82

START TIME	Obs A: CONVENTIONAL	ObsB		U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 02
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 03
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Greene	QUAD:	McLain

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	549772.79	Elevation
Easting	993662.45	103.35

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	82	82

START TIME	Obs A: CONVENTIONAL	ObsB		U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 03
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 04
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Beaumont

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	611405.09	Elevation
Easting	948915.66	89.00

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	82	82

START TIME	Obs A: CONVENTIONAL	ObsB		U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 04
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	FO 05
Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	New Augasta

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	622615.33
Easting	915915.57

Elevation
100.10

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	82	82

START TIME	Obs A: CONVENTIONAL	ObsB		U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 05
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	FO 06
Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Taylor Hill

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	556499.92
Easting	934495.47

Elevation
277.83

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	82	82

START TIME	Obs A: CONVENTIONAL	ObsB		U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 06
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	FO 07
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Brooklyn

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	568986.03
Easting	865381.77

Elevation
198.56

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	VRS

	ObsA	Obs B
DATE:	03/23/16	03/23/16
DAY OF YEAR	83	83

	Obs A	ObsB		
START TIME	CONVENTIONAL			U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 07
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	FO 08
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Purvis

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	599128.17
Easting	804316.19

Elevation
335.47

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	81	81

START TIME	Obs A: CONVENTIONAL	ObsB		U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 08
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 09
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Baxterville

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	572579.68	Elevation
Easting	745160.27	388.06

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	81	81

START TIME	Obs A: CONVENTIONAL	ObsB		U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 09
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	FO 10
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Hattiesburg

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	644638.47
Easting	853639.73

Elevation
127.94

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	VRS

	ObsA	Obs B
DATE:	03/23/16	03/23/16
DAY OF YEAR	83	83

	Obs A	ObsB		
START TIME	CONVENTIONAL			U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO10
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 11
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Oloh

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	651529.00	Elevation
Easting	750420.41	410.59

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	81	81

START TIME	Obs A: CONVENTIONAL	ObsB		U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 11
Proj. No.:	28212

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PHOTO:



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PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 12
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Hattiesburg

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	667565.07	Elevation
Easting	843306.08	140.58

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	83	83

START TIME	Obs A: CONVENTIONAL	ObsB		U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 12
Proj. No.:	28212

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PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	FO 34
Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Avent

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	513451.43
Easting	975994.95

Elevation
205.48

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	82	82

START TIME	Obs A: CONVENTIONAL	ObsB		U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 34
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE: 1

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JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	FO 35
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Hillsdale

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	545037.27	Elevation
Easting	790316.06	244.77

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS		ObsA	Obs B
VRS	DATE:	03/21/16	03/21/16
	DAY OF YEAR	81	81

	Obs A	ObsB		
START TIME	CONVENTIONAL			U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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FIELD DATA SHEET

JOB REFERENCE
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POINT ID:	FO 35
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 36
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Baxtervillle

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	614991.19	Elevation
Easting	755688.95	335.72

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	81	81

START TIME	Obs A: CONVENTIONAL	ObsB		U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
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POINT ID:	FO 36
Proj. No.:	28212

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	FO 37
Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Bond Pond

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	515955.39
Easting	906780.90

Elevation
211.08

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	82	82

START TIME	Obs A: CONVENTIONAL	ObsB		U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 37
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	FO 38
Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Neely

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	635919.78
Easting	977975.10

Elevation
135.20

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	82	82

START TIME	Obs A: CONVENTIONAL	ObsB		U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 38
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	FO 39
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Barrontown

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	701809.53	Elevation
Easting	877471.93	162.62

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

		ObsA	Obs B
SESSIONS	DATE:	03/21/16	03/21/16
VRS	DAY OF YEAR	81	81

	Obs A	ObsB		
START TIME	CONVENTIONAL			U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 39
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	FO 42
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Carterville

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	673748.35
Easting	877420.88

Elevation
251.33

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	81	81

START TIME	Obs A: CONVENTIONAL	ObsB		U.T.C.
END TIME		CONVENTIONAL	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Forest

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	FO 42
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	SH 02
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Lumberton

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	546309.17
Easting	787697.26

Elevation
273.22

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	10:44	10:49		U.T.C.
END TIME	10:47	10:52	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Shrub

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

PAGE:
2

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	SH 02
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	SH 03
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Baxterville

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	614589.49	Elevation
Easting	756571.00	342.78

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	11:04	11:09		U.T.C.
END TIME	11:07	11:12	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Shrub

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	SH 03
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	SH 04
Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Bond Pond

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	520012.16
Easting	910485.45

Elevation
251.13

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	76	76

	Obs A	ObsB		
START TIME	17:02	17:08		U.T.C.
END TIME	17)5	17:11	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)			
MTRS/FT	1.800 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Shrub

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	SH 04
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	SH 05
Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Neely

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	636119.45
Easting	981554.62

Elevation
176.40

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS04C00651

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	11:16	11:32		U.T.C.
END TIME	11:19	11:35	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Shrub

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	SH 05
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	SH 06
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Barrontown

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	702299.68	Elevation
Easting	878546.39	167.95

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	81	81

	Obs A	ObsB		
START TIME	09:38	09:45		U.T.C.
END TIME	09:41	09:48	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Shrub

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	SH 06
Proj. No.:	28212

523 Wellington Way, Suite 375
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859-277-8700 voice 859-277-8901 fax

PHOTO:



PHOTO:



PHOTO:

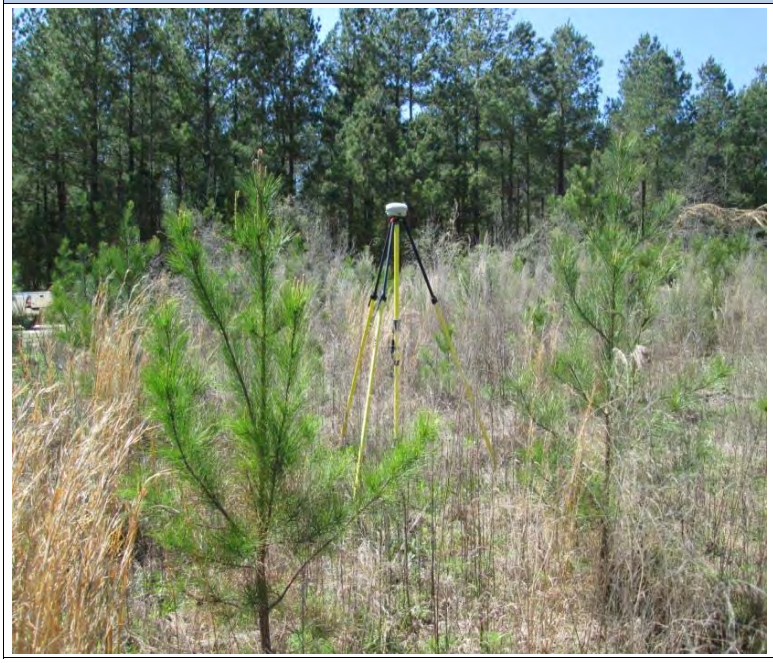


PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	SH 09
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Carterville

OPERATOR	K.Chapman

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	674497.61
Easting	879133.09

Elevation
252.16

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	09:45	09:53		U.T.C.
END TIME	09:48	09:56	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Shrubs

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	SH 09
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	SH 10
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	McLaurin

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	617642.11	Elevation
Easting	871744.53	279.71

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	13:45	13:54		U.T.C.
END TIME	13:48	13:57	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Shrubs

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	SH 10
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	SH 11
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Sanford

OPERATOR	K.Chapman
RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	698485.40
Easting	803479.79

Elevation
229.72

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	13:29	13:35		U.T.C.
END TIME	13:32	13:40	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Shrubs

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	SH 11
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	SH 15
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Dixie

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	626227.10
Easting	819009.71

Elevation
371.25

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	80	80

	Obs A	ObsB		
START TIME	10:37	10:42		U.T.C.
END TIME	10:40	10:45	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

SHRUBS

	AERIAL TARGET			PHOTO I.D.
	PUB. BENCH MARK		X	NEW CONTROL
	PUB. CONTROL			BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	SH 15
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	TW 01
Proj. No.:	28212

STATE	MS	COUNTY	Greene	QUAD:	Leakesville SW

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	552085.68
Easting	1022014.01

Elevation
96.16

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	11:25	15:27		U.T.C.
END TIME	11:29	15:30	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT			
	MEASURED		FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)			
MTRS/FT	1.800 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Tall Weeds

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 01
Proj. No.:	28212

PHOTO:	PHOTO:
	
PHOTO:	**PHOTO:**

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	TW 02
Proj. No.:	28212

STATE	MS	COUNTY	Greene	QUAD:	McLain

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	581926.36
Easting	988974.52

Elevation
75.72

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	13:24	16:21		U.T.C.
END TIME	13:27	16:24	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Tall Weeds

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 02
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	TW 03
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Greene	QUAD:	McLain

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	550361.96
Easting	995075.05

Elevation
102.33

RECEIVER MODEL	Leica GS15
RECEIVER S/N	150893

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	75	75

	Obs A	ObsB		
START TIME	14:42	17:08		U.T.C.
END TIME	14:45	17:11	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #			
Antenna Type	LEIAT15		

ANTENNA HEIGHT (ARP)			
MTRS/FT	1.800 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Tall Weeds

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



GPS CONTROL SURVEY
FIELD DATA SHEET

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JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 03
Proj. No.:	28212

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PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	TW 04
Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	Richton

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	641199.90
Easting	952341.54

Elevation
216.31

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS04C00651

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	12:37	12:43		U.T.C.
END TIME	12:39	12:46	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Tall Weeds

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 04
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	POINT ID:	TW 05
MS NRCS LiDAR	Proj. No.:	28212

STATE	MS	COUNTY	Perry	QUAD:	New Augusta

OPERATOR	W. Neville

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	618272.08	Elevation
Easting	920243.00	108.08

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS04C00651

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	79	79

	Obs A	ObsB		
START TIME	13:36	13:42		U.T.C.
END TIME	13:39	13:45	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5407484087		
Antenna Type	TRMR8 Model 4	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	1.800 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Tall Weeds

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 05
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:

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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	TW 06
Proj. No.:	28212

STATE	MS	COUNTY	Lamar	QUAD:	Baxterville

OPERATOR	Z. Ingram

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	574657.90
Easting	747578.86

Elevation
407.38

RECEIVER MODEL	Trimble R8
RECEIVER S/N	RS03C00638

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	13:38	13:43		U.T.C.
END TIME	13:41	13:46	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5046455718		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Tall Weeds

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 06
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE	
MS NRCS LiDAR	

POINT ID:	TW 07
Proj. No.:	28212

STATE	MS	COUNTY	Forrest	QUAD:	Hattiesburg

OPERATOR	K.Chapman

NAD83(2011) SP MS EAST NAVD88 AVERAGED POSITION USFeet

Northing	670052.92
Easting	843973.10

Elevation
151.58

RECEIVER MODEL	Trimble R8
RECEIVER S/N	DC# RS03C00561

SESSIONS	DATE:	ObsA	Obs B
VRS	DAY OF YEAR	78	78

	Obs A	ObsB		
START TIME	11:21	11:28		U.T.C.
END TIME	11:24	11:31	X	LOCAL

ANTENNA HEIGHT (SLANT)				
MTRS/FT				
	MEASURED		FIXED HGT.	

ANTENNA			
RADIUS (M)			
Antenna Serial #	5106461067		
Antenna Type	TRMR8 Model 3	Trimble Integrated Antenna	

ANTENNA HEIGHT (ARP)				
MTRS/FT	2.000 Meters			
	MEASURED	X	FIXED HGT	

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

Tall Weeds

	AERIAL TARGET		PHOTO I.D.
	PUB. BENCH MARK	X	NEW CONTROL
	PUB. CONTROL		BASE STATION

PHOTO



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GPS CONTROL SURVEY
FIELD DATA SHEET

JOB REFERENCE
MS NRCS LiDAR

POINT ID:	TW 07
Proj. No.:	28212

PHOTO:



PHOTO:



PHOTO:



PHOTO: