

REPORT OF TOPOGRAPHIC SURVEY

Project Title: **FY 2006 Upper Myakka LiDAR (H048)**
Purchase Order: **06PO0000736**
Work Order Name: **Upper Myakka LiDAR**
Work Order Number: **1**

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Prepared for

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1 TOPOGRAPHIC SURVEY

This topographic survey was performed by EarthData International for Southwest Florida Water Management District. This project required production of LiDAR, black and white conventional photography, photogrammetrically-derived breaklines, and contours covering approximately 291 square miles. The project area was within the Southwest Florida Management District jurisdiction in the Upper Myakka River area. The District regularly uses terrain data to support regulatory, land management and acquisition, planning, engineering and habitat restoration projects. This data set will also be used to support surface water modeling and the creation of Federal Emergency Management Agency Flood Insurance Rate Maps (FEMA FIRM)

The project area is comprised of a collection of 5000 by 5000 foot cells that serve as the tiling scheme for the deliverables. The area consists of 325 cells (approximately 291 square miles).

This data was tied (to the greatest extent possible) to the following existing datasets so as to minimize differences in surface elevations at the intersecting seams of the project areas:

- Conventional photogrammetric topographic information (spot elevations and breaklines) collected by Woolpert, Inc. in 1999 – 2000.
- LiDAR data collected by 3001, Inc. in 2006.

All work was done under the supervision of a Florida licensed Professional Surveyor and Mapper and in accordance with the Minimum Technical Specifications defined in Rule 61G17, Florida Administrative Code.

This report and the digital data that were produced for this project or the copies thereof are not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper, which can be found at the end of this report. Additions or deletions to this report or the delivered data by other than the signing party are prohibited without the consent of the signing party. The data and report are not full and completed without the other.

1.1 Data Sources

1. Ground control used for this project was collected by Kevin Chappell (Florida PSM License # LS5818). **Reference: “Report of GPS Survey Upper Myakka Area, FL For Photogrammetric and Lidar Mapping Control”, dated May 2006.** Three signed and sealed hardcopies of this report, including full-sized drawings have been provided under a previous delivery.
2. A separate ground control set was acquired for the quality control checks of the LiDAR bare earth dataset. This ground control was collected by WilsonMiller and sealed by Robert W. Coleman (Florida PSM License # LS5478) **Reference: “LIDAR LAND COVER CONTROL, Report of GPS Survey Upper Myakka Area, Florida ”, dated March 2007.** Three signed and sealed hardcopies of this report, including full-sized drawings have been provided under a previous delivery.
3. Conventional black and white imagery used for this project was obtained on March 3rd and March 7th of 2006. The collection was performed using a Wild RC30 camera system, including an inertial measuring unit (IMU) and a dual frequency GPS receiver. This project required 2 lifts of flight lines to be collected for a total of 16 lines, at an average altitude of 4,300 feet above mean terrain. Type of aerial film used was Kodak 2405. Lens number of the Wild RC30 camera used was 13261-5253 with a calibrated focal length of 153.399. The area-weighted average resolution is 51. The camera was last calibrated by USGS on June 29, 2004.

4. LiDAR point data used for this project was obtained between 3 October and 12 October 2006. The collection was performed using a Leica ALS-50 LiDAR system, serial number ALS039, including an inertial measuring unit (IMU) and a dual frequency GPS receiver. This project required six lifts of flight lines to be collected. The lines were flown at an average of 3000 feet above mean terrain using a pulse rate of 75,000 pulses per second.
5. Existing datasets were provided by SWFWMD to tie to. This consisted of conventional photogrammetric topographic information (spot elevations and breaklines) collected by Woolpert, Inc. in 1999 – 2000. And LiDAR data collected by 3001, Inc. in 2006.

1.2 Datum

All data for this project has been collected and provided in Florida State Plane West Zone (FIPS 0902), Units Feet, Horizontal Datum is the North American Datum 1983/1999 HARN adjustment. Vertical Datum is the North American Vertical Datum of 1988 (NAVD 88).

1.3 Accuracies - LiDAR

All LiDAR data meets or exceeds the Federal Emergency Management Agency's Guidelines and Specifications for Flood Hazard Mapping Partners, Appendix A: Guidance for Aerial Mapping and Surveying, April 2003. In addition, the vertical accuracy for LiDAR data over well-defined surfaces meets the Federal Geographic Data Committee's (FGDC) published National Standard for Spatial Data Accuracy (NSSDA). Accuracy was tested to meet a 0.6-foot fundamental vertical accuracy at 95 percent confidence level using $RMSE(z) \times 1.9600$ as defined by the National Standards for Spatial Data Accuracy (NSSDA).

Four different ground cover types were tested; urban grass, grass, brush palmetto, and forested. An additional collection of other known control was also provided. These were photo identified and used with the appropriate ground cover type.

The analysis was performed by creating a TIN surface of the LiDAR data set around each control point. The elevation of the control point was then compared to the elevation of the TIN in the given X,Y location.

In some areas of heavy vegetation, the classified bare earth point density decreased due to the lack of pulse penetration. A combination of small post spacing and marshy, wet, low lying vegetation led to a highly dense point cloud at ground level in some areas as well. When encountered, these conditions made the true bare earth surface difficult to determine. In an effort to provide a smoother, more accurate dataset, these areas were edited very carefully to bare earth using points essential for reasonable post spacing and an accurate depiction of the bare earth surface.

Every point was initially tested against the delivered bare earth. In some cases the density was not high enough to deliver meaningful QC results. In these cases, the lack of points within an appropriate search range resulted in large triangles in the TIN and misleading statistics. In such cases it was necessary to revisit the areas around the control points and reintroduce other points that were not initially included in the bare earth data set. These points are described as "reinforced" in the table. With the density increased, the statistics better reflect the accuracy of the LiDAR data set.

The following four inserts contain the accuracy report for each land cover category checked:

1.4 Accuracies - Contours

One-foot contours developed for this project are certified to meet or exceed National Map Accuracy Standards for two-foot contours.

2 METHODOLOGY

Photogrammetric methods were used for this topographic survey. Photogrammetry is a means of surveying and mapping that involves making precise measurements from a combination of ground control, aerial photographs, and elevation data sets. There are many pieces of equipment and many programs/software used to perform the various tasks for this project.

EarthData utilized one Wild RC30 conventional film camera and one Leica ALS50 LiDAR sensor to complete aerial acquisitions. Due to a sensor malfunction during the LiDAR collection, the LiDAR data had to be recollected later in 2006. This resulted in the LiDAR data being collected during different water level conditions than the conditions existing during the conventional film collection. In order to accommodate the water level differences the processes used to edit the lidar and photogrammetrically collect the breaklines were altered from the standard approach.

2.1 Conventional Photography - Aerotriangulation

The original aerial film was scanned at a resolution of 1,210 DPI. The scans were produced using Z/I Imaging PhotoScan flatbed metric scanners. Each unit has a positional accuracy of 21 microns and a radiometric resolution of 1,024 gray levels for each of three color layers. The ground control and airborne GPS data was integrated into a rigid network through the completion of a fully analytical bundle aerotriangulation adjustment. An Aerotriangulation report describing the methodology and the results of the aerotriangulation is included in **Appendix A** of this report.

2.2 LiDAR Boresight

The airborne GPS data were processed and integrated with the IMU. The results were imported into the processing system for use in the LiDAR boresight. The raw LiDAR data was downloaded onto a production server. The ground control and airport GPS base station were used in conjunction with the processed ABGPS results for the LiDAR boresight. The properly formatted processing results were used for subsequent processing.

2.3 LiDAR Processing

The algorithms for filtering data were utilized within EarthData's proprietary software and commercial software written by TerraSolid. This software suite of tools provides efficient processing for small to large-scale, projects and has been incorporated into ISO 9001 compliant production work flows. The following is a step-by-step breakdown of the process:

1. The technician performed a visual inspection of the data to verify that the flight lines overlap correctly. The technician also verified that there were no voids, and that the data covered the project limits.
2. The technician then selected a series of areas from the data set and inspected them where adjacent flight lines overlapped. These overlapping areas were merged and a process which utilizes 3-D Analyst and EarthData's proprietary software was run to detect and color code the differences in elevation values and profiles. The technician reviewed

- these plots and located the areas that contained systematic errors or distortions that were introduced by the LiDAR sensor.
3. Systematic distortions highlighted in step 2 were removed and the data was re-inspected. Corrections and adjustments can involve the application of angular deflection or compensation for curvature of the ground surface that can be introduced by crossing from one type of land cover to another.
 4. The LiDAR data for each flight line was trimmed in batch for the removal of the overlap areas between flight lines. The data was checked against a control network to ensure that vertical requirements were maintained. Conversion to the client-specified datum and projections were then completed. The LiDAR flight line data sets were then segmented into adjoining tiles for batch processing and data management.
 5. The initial batch-processing run removed 95% of points falling on vegetation. The algorithm also removed the points that fell on the edge of hard features such as structures, elevated roadways and bridges.
 6. The operator interactively processed the data using LiDAR editing tools. During this final phase the operator generated a TIN based on a desired thematic layers to evaluate the automated classification performed in step 5. This allowed the operator to quickly re-classify points from one layer to another and recreate the TIN surface to see the effects of edits. Geo-referenced images from the project area were toggled on or off to aid the operator in identifying problem areas. The data was also examined with an automated profiling tool to aid the operator in the reclassification.
 7. Completed bare earth tiles were held until the associated breaklines for each area were completed. The breakline polygons delineating water bodies were then referenced and the technicians compared and edited the datasets to ensure agreement between the two products.
 8. The point cloud data were delivered in LAS 1.0 format, using the following classifications:
 - 10 – points in wetlands and ditches
 - 9 – points in water
 - 2 – ground points
 - 1 – all other

2.4 Generation of Breaklines

Photogrammetrically-collected breaklines were compiled to delineate specified features in accordance with the project scope. The following features were collected:

- *Closed Water Body Features* - Land water boundaries of constant elevation water bodies (lakes, reservoirs, etc.) were collected as closed polygons with a constant elevation that reflected the water elevation at the time the data were captured. Water body features were captured for features one-half acres in size or greater. Water bodies were captured as two- or three- dimensional breaklines depending upon the type.
- *Linear Hydrographic Features* - Linear hydrographic features (streams, shorelines, canals, swales, embankments, etc.) were delivered as breaklines with varying

elevations. All stream/river features that are 0.5 miles or greater in length were captured. Features that were 8 feet or less in width were captured as single breakline features. Features that were greater than 8 feet in width were captured as double line features. All features were captured as three-dimensional breaklines.

- *Coastal Shorelines* – No coastal shorelines were encountered on this project.
- *Road Features* - Road features, not including bridges and overpasses, were captured as edge of pavement breaklines as required to create a hydrologically correct digital terrain model. These features were captured as three-dimensional breaklines.
- *Soft Features* - In areas where the LiDAR mass points were not sufficient to create a hydrologically correct DTM, soft features such as ridges, valleys, top of banks, etc. were captured as soft breaklines of varying elevations. These features were captured as three-dimensional breaklines.
- *Obscured Vegetated Areas* - These were defined as vegetated areas that are considered obscured to the extent that adequate vertical data could not be clearly determined in order to accurately define the DTM. These features were captured as two-dimensional closed polygon features. These features are for reference information indicating areas where the vertical data may not meet the data accuracy requirements due to heavy vegetation.
- *Island Features* - The shoreline of islands within water bodies shall be captured as three-dimensional breaklines.
- *Overpasses and Bridges* - Overpass and bridge features will be captured as three-dimensional breaklines.

The following is a step-by-step breakdown of the process used to collect the breaklines:

1. Technicians used an interactive process using photogrammetrically-derived stereo pairs in a 3D environment. Features collected defined tops and bottoms of slopes, roads, ditches, ponds, rivers and lakes.
2. Breaklines in wetland areas were collected with sufficient detail to ensure that hydrographic features were correctly represented to support the generation of 1' contours to a 2' NMAS vertical accuracy requirement.
3. The wetland breaklines were collected as closed polygons and were used in the LiDAR processing for reclassifying wetland points.
4. The breaklines were verified in a stereo environment by senior technicians who were not involved in the compilation. Wetland boundaries were verified using existing orthophotography and LiDAR hillshades color-coded by elevation. This process was used to ensure that water conditions at time of LiDAR acquisition were consistent with the imagery used to compile breaklines. The breaklines were modified as necessary in instances where the more recent LiDAR data showed areas of change.
5. The breaklines were then draped to the LiDAR ground points. This draping process included roads but excluded ditches. All vector data was reviewed after this process to

assure that vectors had been properly assigned elevations in comparison to the LiDAR surface.

- The completed breakline product was used in the generation of the contour deliverable and were also delivered as a geodatabase deliverable.

2.5 Generation of Contours

One-foot contours were generated from the LiDAR and breakline data, and are certified to meet or exceed National Map Accuracy Standards for two-foot contours. The purpose of the contours is to be used for cartographic visualization purposes. Contours were delivered in ArcGIS Geodatabase with an elevation field and index contour identifier (five foot index) and were clipped to the 5000 foot tiling scheme of the project.

The following is a step-by-step breakdown of the process used to generate the contours:

- The relevant LiDAR and breakline data for the project area was first translated into a Microstation dgn format.
- The data was then passed to the editing department for quality control and formatting.
- The cartographic editors performed an accuracy evaluation for each DTM file. This step was accomplished by a visual inspection of the dataset in profile view to identify spikes or pits in the mass point information.
- The technician also verified that sufficient overage exists for each file to ensure full project area coverage.
- The technician then produced the contours using the TerraModel software.
- The contours were then converted into a geodatabase format and delivered.

2.6 Deliverables

The deliverables for this project include are summarized in the following table:

Copies	Description	Resolution (FT)	Datum (SPF - W)	Format	Notes
1	LiDAR Mass Points		NAD83/99	LAS	Vertical NAVD88
1	Digital Breakline Feature Dataset		NAD83/99	ArcGIS Personal Geodatabase	Vertical NAVD88
1	Contours	1.0	NAD83/99	ArcGIS Personal Geodatabase	Vertical NAVD88
3	Survey Report (project survey)			Hardcopy	Including drawings
1	Survey Report (project survey)			PDF	Including drawings
3	Survey Report (QC)			Hardcopy	Including

	survey)				drawings
1	Survey Report (QC survey)			PDF	Including drawings
2	LiDAR Processing Report			Hardcopy	
1	LiDAR Processing Report			PDF	
2	Vertical Accuracy Report			Hardcopy	
1	Vertical Accuracy Report			PDF	
1	Metadata files (photogrammetry and lidar)			ArcGIS XML, Word, TXT	

3 METADATA

Metadata compliant with the Federal Geographic Data Committee's (FGDC) Content Standard for Spatial Metadata was produced and delivered for this project. A copy of the Metadata for both the photogrammetric and lidar components of the project is attached to this report in **Appendix B**.

4 DELIVERABLE FILE LISTING

A listing of all delivered files covered by this report is included in **Appendix C**.



Several qualified photogrammetrists accomplished the production of the products for this project. I as the signing surveyor and mapper have not done any of the production. I have supervised and checked the work produced. To the best of my knowledge and review, all of the products meet or exceed the accuracy and quality as required.

Notes:

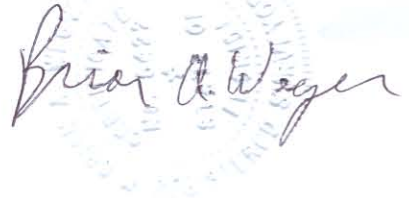
To the best of my knowledge this survey and report meet all Southwest Florida Water Management District requirements and applicable requirements of the Florida Minimum Technical Standards as contained in Chapter 61G17-6, Florida Administrative Code.

Surveyor and Mapper in Responsible Charge:

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Professional Surveyor and Mapper
License Number LS 5422

Signed: Brian A. Wegner
Date: 9/14/07

Seal:



Appendix A Aerotriangulation Report

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**AEROTRIANGULATION REPORT
(Job # 06-0022A)
UPPER MYAKKA
2006**

1 OVERVIEW

Horizons, an EarthData company completed all phases of aerotriangulation on the 832 exposures covering the project area of Upper Myakka. The final horizontal and vertical mapping coordinate systems for this project are Florida State Plane West Zone, NAD83/HARN US Survey Feet and NAVD88 US Survey Feet, respectively. All coordinates and measurements in this report adhere to this system, unless otherwise stated. Aerotriangulation densifies the ground control used to orient the individual stereomodels on stereoplotters for the data capture phase of the project.

2 EQUIPMENT

Technicians accomplished tie point and pass point selection, control image coordinate measurement, relative and absolute orientation utilizing the ORIMA photogrammetric software installed on high-end photogrammetric workstations.

3 CAMERA

Richard Crouse and Associates acquired the photography using a Wild RC30 camera with 153.399 mm lens number 13261.

4 AEROTRIANGULATION PROCEDURE

Photogrammetry technicians used the following nine steps to perform the aerotriangulation:

- Step 1:** Upon receipt of all aerial photography and ground control, technicians confirm its completeness using flight maps and photo indexes.
- Step 2:** Image scans are imported from the network locations to the LH System photogrammetric workstation.
- Step 3:** Where scans were not provided with overviews, technicians compress and create a full set of overviews for image scans in .TIF format.
- Step 4:** ABGPS photo centers and ground control files are imported to the system.
- Step 5:** Using the LH systems photogrammetric workstation, image tie and pass points are measured in stereo and then APM is used to automatically transfer tie points between strips of imagery for all photography flights.
- Step 6:** Using ORIMA, image measurements are refined after initial relative adjustment. This was followed with initial absolute adjustment after all control points are read and Airborne GPS camera positions are incorporated.
- Step 7:** Measurement residuals undergo QA/QC and evaluation and are refined, if necessary.
- Step 8:** Using ORIMA, the technicians perform a block adjustment for the entire block of photography. This adjustment incorporates the ABGPS, the surveyed ground control, the camera calibration data and the measurement data from Step 7. The results of this adjustment are checked for compliance with the project accuracy

requirements.

Step 9: An aerotriangulation report outlining the adjustment results is prepared.

5 PHOTOGRAPHY

Richard Crouse and Associates acquired the photography on 7 March 2006 at a flight height of 4,200 US survey feet above mean terrain (AMT) resulting in a photo scale of 1:8,400. The exposures include:

FLIGHT	EXPOSURES	TOTAL	CAMERA/LENS NO.
1	1-53	53	5253 / 13261
2	1-53	53	5253 / 13261
3	1-53	53	5253 / 13261
4	1-53	53	5253 / 13261
5	1-53	53	5253 / 13261
6	1-53	53	5253 / 13261
7	1-53	53	5253 / 13261
8	1-53	53	5253 / 13261
9	1-53	53	5253 / 13261
10	1-53	53	5253 / 13261
11	1-53	53	5253 / 13261
12	1-53	53	5253 / 13261
13	1-53	53	5253 / 13261
14	1-53	53	5253 / 13261
15	1-53	53	5253 / 13261
16	1-53	53	5253 / 13261
TOTAL NUMBER OF EXPOSURES		832	

6 CONTROL

EarthData acquired ground control data, of which nine (9) survey points were successfully located and used as ground control in the final block adjustments. Ground control has been surveyed using survey grade G.P.S. equipments. The horizontal positions, given in US survey Feet, are in NAD83/HARN Florida West State Plane coordinates, while the vertical datum was NAVD88.

Coordinate System- State Plane Florida West

Units- US survey Feet

Horizontal Datum- NAD83/HARN

Vertical Datum- NAVD88

<u>ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Elevation</u>
HV-01	567140.828	1048180.079	31.096
HV-02	582229.334	1038050.604	31.929
HV-03	592212.385	1039618.807	33.527
HV-04	605236.089	1039487.934	34.432
HV-05	622856.126	1039474.456	39.984
HV-06	633492.247	1042403.768	41.040

HV-07	629974.042	1079007.432	74.967
HV-08	612384.313	1090458.482	51.276
HV-09	587404.022	1070861.782	37.772
HV-10	569052.054	1099106.798	68.576
HV-11	636420.607	1140249.793	97.766
HV-12	610573.467	1136374.932	73.609
HV-13	584685.346	1141562.326	91.936
HV-14	567456.057	1141596.870	65.676
HV-15	625819.644	1164454.410	114.632
HV-16	614918.193	1167449.565	118.829
HV-17	599598.010	1165435.940	97.418
HV-18	582992.761	1165790.913	125.387
HV-19	570287.367	1165022.644	96.660
HVL-01	625223.484	1039621.090	39.908
HVL-02	620905.418	1083492.603	65.531
HVL-03	626455.666	1164465.837	114.383
HVL-04	571859.348	1045917.272	28.940
HVL-05	574845.487	1109909.125	67.191
HVL-06	574482.109	1165206.338	100.702
HVL-07	594508.526	1039534.194	31.693
HVL-08	596708.800	1098649.322	42.208
HVL-09	599631.087	1164073.630	94.429
HVL-10	592924.063	1070794.532	47.956
HVL-11	620959.559	1134548.709	81.391

7 AEROTRIANGULATION ADJUSTMENT

All aerotriangulation observations were run through the LH Systems/ORIMA software package.

ORIMA is a fully analytical block aerotriangulation system designed for interactive operation. It is a rigorous mathematical approach using a simultaneous bundle adjustment method for the solution of block aerotriangulation. The redundancy of the image co-ordinate data is effectively utilized in a generalized least squares adjustment model. The system has a full self-calibration capability, error checking and may include additional block parameters in the simultaneous bundle adjustment solution.

ORIMA is able to produce accuracy estimates (standard errors) for all parameters of the triangulation, including the X, Y, Z (or E, N, H) ground co-ordinate points.

8 AEROTRIANGULATION RESULTS

Number of Control Points : 30
 Number of Terrain Points : 5086
 Number of Images : 848
 Number of Cameras : 1
 Number of GPS Profiles : 1
 Number of Add. Observations : 2614
 Sigma0 a priori : .0059
 Scale ground units to meter :0.3048

Antenna centers (X Y Z & Residuals)

1_001	568138.97	1035644.88	4295.74	-0.514	-0.168	0.082
1_002	568183.90	1038191.09	4355.29	-0.070	0.080	0.097
1_003	568215.42	1040752.16	4305.06	0.028	0.141	0.137



1_004	568202.93	1043297.35	4298.86	0.109	-0.402	-0.067
1_005	568202.28	1045833.05	4301.75	0.265	-0.580	-0.519
1_006	568181.05	1048304.85	4328.85	0.659	-0.275	-0.518
1_007	568149.30	1050870.66	4339.34	0.619	-0.246	0.519
1_008	568146.51	1053440.00	4266.00	0.325	-0.105	-0.014
1_009	568153.73	1055924.79	4301.07	0.100	-0.009	0.026
1_010	568147.76	1058470.85	4328.09	0.427	-0.269	-0.283
1_011	568140.36	1061008.16	4342.25	0.312	-0.173	-0.277
1_012	568143.03	1063581.71	4304.32	0.386	-0.049	-0.126
1_013	568131.75	1066094.38	4281.60	0.159	0.022	-0.016
1_014	568136.99	1068613.18	4283.38	0.431	0.328	-0.128
1_015	568126.19	1071175.36	4235.56	0.004	0.149	-0.989
1_016	568129.04	1073668.94	4280.99	0.719	-0.142	0.283
1_017	568117.76	1076217.91	4308.38	0.236	0.151	-0.332
1_018	568124.15	1078766.88	4302.16	-0.013	-0.009	0.087
1_019	568129.22	1081305.25	4317.15	0.257	0.095	0.239
1_020	568152.51	1083875.50	4306.01	0.577	0.098	-0.178
1_021	568138.77	1086401.73	4308.83	0.387	0.031	-0.102
1_022	568133.30	1088906.68	4351.33	0.141	-0.331	0.174
1_023	568126.31	1091502.08	4279.32	-0.354	-0.249	-0.320
1_024	568153.24	1093982.59	4266.32	0.214	0.166	-0.093
1_025	568148.25	1096499.02	4323.94	-0.239	0.090	0.038
1_026	568152.78	1099031.73	4320.18	0.052	-0.109	-0.702
1_027	568167.12	1101592.68	4336.56	-0.219	-0.373	0.498
1_028	568169.75	1104150.82	4313.47	0.146	-0.393	-0.218
1_029	568162.25	1106644.56	4365.68	0.092	-0.170	0.694
1_030	568156.91	1109211.97	4306.53	0.119	0.138	-0.099
1_031	568161.94	1111764.18	4280.35	-0.053	0.056	-0.121
1_032	568180.17	1114244.29	4321.62	0.693	-0.146	-0.130
1_033	568174.36	1116795.07	4333.75	-0.300	-0.116	-0.169
1_034	568167.46	1119344.15	4319.57	0.197	0.234	-0.145
1_035	568179.54	1121896.81	4308.37	-0.002	0.071	0.111
1_036	568195.18	1124424.49	4309.86	0.026	-0.115	-0.170
1_037	568191.55	1126960.55	4277.22	0.400	0.046	-0.197
1_038	568197.40	1129471.86	4292.56	-0.068	-0.091	-0.132
1_039	568186.76	1132035.77	4294.06	0.061	0.046	0.206
1_040	568186.14	1134556.91	4298.18	0.038	-0.227	0.134
1_041	568174.45	1137080.99	4283.42	0.259	-0.307	-0.200
1_042	568188.75	1139620.94	4269.17	-0.032	-0.326	0.304
1_043	568195.89	1142198.38	4240.15	0.103	0.223	-0.681
1_044	568196.88	1144639.81	4297.36	0.047	0.227	0.359
1_045	568181.71	1147225.37	4294.41	0.092	0.402	-0.026
1_046	568186.01	1149757.27	4325.23	0.398	0.151	0.061
1_047	568193.31	1152325.47	4320.02	0.324	-0.371	-0.041
1_048	568179.93	1154868.33	4274.45	0.060	-0.445	-0.635
1_049	568181.38	1157402.52	4276.05	0.366	-0.581	-0.358
1_050	568181.70	1159913.04	4296.22	0.351	-0.143	0.034
1_051	568179.16	1162429.20	4307.71	0.277	-0.530	0.134
1_052	568153.39	1165011.88	4287.06	-0.326	-0.218	0.235
1_053	568144.97	1167525.34	4278.70	-0.085	0.048	-0.012
2_001	572546.83	1035750.05	4307.82	-0.302	0.119	-0.320
2_002	572570.74	1038286.29	4324.59	0.018	0.268	-0.096



2_003	572578.73	1040822.00	4334.15	0.702	0.514	0.141
2_004	572566.99	1043379.45	4335.76	0.488	0.422	0.017
2_005	572564.52	1045902.29	4333.19	0.133	0.296	0.030
2_006	572580.09	1048455.37	4338.88	0.414	0.583	0.023
2_007	572573.79	1051003.14	4324.04	0.277	0.280	-0.205
2_008	572554.87	1053530.66	4312.55	0.105	0.448	-0.033
2_009	572530.38	1056059.53	4311.57	0.055	0.377	-0.064
2_010	572534.10	1058596.15	4303.19	0.938	0.662	-0.232
2_011	572538.94	1061139.63	4342.82	0.439	0.671	0.887
2_012	572537.73	1063647.93	4355.42	0.771	0.417	-0.184
2_013	572555.02	1066187.44	4327.67	0.388	0.212	-0.106
2_014	572559.17	1068728.02	4319.23	0.851	0.218	0.023
2_015	572542.55	1071268.07	4308.36	0.316	0.347	0.183
2_016	572535.69	1073791.63	4308.87	0.411	1.256	-0.260
2_017	572545.35	1076321.17	4349.08	0.346	0.615	0.219
2_018	572558.60	1078882.97	4398.06	0.139	0.501	-0.078
2_019	572565.00	1081438.88	4380.92	0.226	0.964	0.065
2_020	572564.07	1083943.49	4331.72	0.565	0.544	-0.362
2_021	572552.92	1086473.33	4327.30	-0.187	0.641	-0.238
2_022	572544.89	1089013.99	4349.12	0.164	0.599	-0.064
2_023	572525.97	1091535.40	4385.28	0.218	0.425	0.049
2_024	572508.17	1094087.56	4362.16	-0.338	0.748	-0.054
2_025	572513.55	1096626.85	4308.15	0.118	0.682	-0.172
2_026	572527.70	1099135.81	4322.35	-0.327	0.444	0.402
2_027	572537.66	1101699.33	4396.92	0.239	0.800	-0.037
2_028	572533.79	1104240.45	4377.02	-0.214	0.613	-0.223
2_029	572532.70	1106761.23	4349.71	0.098	0.605	-0.037
2_030	572546.77	1109259.52	4329.39	-0.226	0.193	-0.141
2_031	572552.04	1111839.42	4348.80	-0.002	0.994	-0.067
2_032	572549.39	1114379.52	4349.84	0.326	0.728	-0.126
2_033	572538.06	1116920.43	4341.52	0.294	0.451	0.030
2_034	572540.05	1119438.27	4310.17	0.309	0.600	0.157
2_035	572543.25	1121983.85	4316.81	0.584	0.602	0.326
2_036	572543.57	1124529.90	4310.08	0.837	0.609	0.192
2_037	572529.74	1127066.57	4325.60	0.284	0.354	-0.036
2_038	572518.72	1129574.47	4315.59	0.369	0.406	-0.046
2_039	572506.88	1132127.45	4310.29	0.026	0.512	-0.449
2_040	572509.29	1134636.25	4327.54	-0.515	0.269	-0.069
2_041	572519.40	1137195.67	4330.41	0.203	0.505	0.599
2_042	572532.89	1139750.38	4321.72	0.446	0.372	-0.064
2_043	572536.35	1142278.54	4299.59	-0.383	0.467	-0.749
2_044	572550.06	1144797.50	4273.06	0.305	1.021	-0.280
2_045	572555.45	1147331.34	4290.75	0.454	0.641	0.705
2_046	572564.27	1149868.04	4321.60	0.269	0.594	0.139
2_047	572561.49	1152410.30	4315.18	0.436	0.203	0.018
2_048	572568.00	1154943.10	4299.29	0.028	0.343	0.320
2_049	572582.35	1157483.43	4293.93	0.334	0.685	0.218
2_050	572595.85	1160027.02	4301.45	0.067	0.980	0.221
2_051	572592.23	1162540.17	4299.52	-0.035	0.247	0.060
2_052	572571.35	1165090.01	4289.86	-0.062	1.054	-0.052
2_053	572555.28	1167607.01	4300.40	0.318	0.339	-0.153
3_001	576974.13	1035665.85	4325.37	-0.430	-1.091	0.032



3_002	576983.17	1038178.53	4315.46	-0.012	-0.625	0.033
3_003	576987.57	1040727.03	4340.41	0.436	-0.062	0.056
3_004	576968.26	1043220.69	4338.70	0.651	-0.532	0.217
3_005	576953.38	1045787.90	4343.50	0.176	-0.625	-0.050
3_006	576953.03	1048343.36	4339.29	0.059	-0.383	-0.065
3_007	576969.49	1050903.85	4300.82	0.424	-0.229	-0.123
3_008	576960.44	1053387.26	4336.49	-0.318	0.093	0.301
3_009	576950.21	1055922.86	4332.02	0.006	0.217	0.118
3_010	576960.66	1058481.60	4318.98	0.037	-0.300	-0.117
3_011	576975.24	1061011.14	4287.69	0.553	-0.262	0.194
3_012	576984.06	1063565.91	4283.74	0.320	0.000	-0.153
3_013	576984.14	1066081.97	4289.63	0.452	-0.174	0.024
3_014	576979.31	1068599.87	4294.96	0.398	-0.053	0.148
3_015	576988.67	1071150.42	4315.14	0.483	-0.064	-0.125
3_016	576998.65	1073689.44	4332.58	0.274	0.085	0.107
3_017	576978.50	1076240.41	4309.44	0.540	-0.591	0.037
3_018	576983.06	1078776.83	4300.54	0.077	-0.226	-0.294
3_019	576984.97	1081314.80	4257.18	0.338	-0.141	0.239
3_020	576989.11	1083806.56	4328.10	0.896	0.292	0.089
3_021	576994.22	1086365.08	4296.71	-0.008	-0.356	-0.355
3_022	576975.28	1088910.41	4310.04	0.148	0.202	0.205
3_023	576962.21	1091418.52	4322.60	0.261	-0.182	0.225
3_024	576969.89	1094002.99	4321.58	-0.093	-0.143	0.046
3_025	576955.34	1096505.39	4335.45	-0.199	-0.370	0.124
3_026	576957.85	1099051.28	4308.37	0.229	-0.304	0.007
3_027	576963.95	1101579.45	4279.62	0.029	-0.194	0.299
3_028	576970.10	1104120.94	4270.11	-0.244	-0.139	-0.059
3_029	576980.73	1106636.02	4293.94	-0.062	-0.148	0.136
3_030	576997.69	1109210.59	4291.56	-0.255	-0.371	-0.065
3_031	576977.19	1111750.79	4256.09	-0.259	-0.373	-0.148
3_032	576981.24	1114279.23	4234.85	0.518	-0.013	0.093
3_033	576982.00	1116762.40	4266.26	-0.042	-0.277	-0.226
3_034	577001.60	1119363.16	4247.68	0.003	-0.147	0.042
3_035	577001.10	1121874.26	4260.02	-0.138	-0.223	0.288
3_036	577014.47	1124423.13	4286.45	-0.241	-0.142	-0.108
3_037	577001.01	1126978.71	4260.69	0.200	-0.039	0.097
3_038	576989.91	1129483.18	4257.94	-0.144	-0.038	0.021
3_039	576985.49	1131993.15	4273.43	0.009	-0.293	0.132
3_040	576990.28	1134586.88	4272.07	0.128	0.085	0.108
3_041	576974.20	1137091.89	4305.84	0.037	-0.145	0.400
3_042	576979.79	1139643.55	4287.35	0.493	-0.349	-0.021
3_043	576978.88	1142175.89	4257.57	0.008	-0.014	-0.716
3_044	576983.26	1144748.15	4235.52	-0.313	0.144	0.132
3_045	576955.67	1147193.99	4326.45	-0.310	-0.162	0.712
3_046	576970.55	1149783.26	4336.97	0.020	-0.579	0.599
3_047	576976.56	1152318.00	4315.25	-0.081	-0.157	-0.117
3_048	576983.16	1154846.93	4330.12	0.001	-0.304	0.112
3_049	576979.25	1157384.77	4332.00	0.098	-0.345	0.047
3_050	576968.92	1159948.79	4297.79	0.134	0.100	-0.262
3_051	576973.68	1162437.10	4289.25	-0.034	-0.173	-0.164
3_052	576979.73	1164962.91	4313.90	-0.172	0.038	0.289
3_053	576998.53	1167511.52	4295.09	-0.111	0.209	-0.102



4_001	581449.52	1035770.92	4334.98	-0.295	0.053	-0.303
4_002	581439.15	1038317.40	4321.23	-0.084	0.600	0.045
4_003	581432.56	1040830.92	4348.75	0.629	0.480	0.054
4_004	581435.85	1043367.87	4367.63	0.054	0.791	-0.022
4_005	581421.76	1045902.16	4376.92	0.174	0.427	-0.012
4_006	581384.06	1048458.50	4358.30	0.307	0.510	-0.022
4_007	581346.11	1050964.02	4335.92	0.067	0.704	-0.321
4_008	581325.51	1053538.47	4343.90	-0.286	0.839	0.237
4_009	581331.95	1056047.97	4319.75	0.301	0.513	0.244
4_010	581376.55	1058563.76	4309.19	0.429	0.999	0.054
4_011	581388.47	1061113.79	4349.60	0.112	1.157	-0.227
4_012	581372.97	1063685.70	4386.71	0.100	0.864	-0.090
4_013	581364.52	1066212.58	4353.28	-0.018	0.475	0.238
4_014	581339.24	1068732.09	4314.08	0.207	0.760	-0.139
4_015	581334.18	1071273.35	4331.60	0.460	1.039	-0.039
4_016	581365.79	1073832.12	4314.27	0.374	0.461	-0.022
4_017	581396.13	1076323.56	4313.05	0.761	0.755	0.411
4_018	581399.47	1078872.55	4322.08	0.548	0.763	0.013
4_019	581389.89	1081421.99	4321.95	0.408	0.940	-0.010
4_020	581395.77	1083925.06	4323.68	0.304	0.775	0.041
4_021	581384.60	1086465.76	4330.59	0.374	1.044	-0.117
4_022	581377.26	1089015.80	4386.24	-0.036	0.827	-0.012
4_023	581357.89	1091565.39	4355.74	-0.236	0.718	-0.059
4_024	581358.54	1094109.94	4334.57	0.168	0.356	-0.049
4_025	581354.46	1096644.50	4338.18	0.275	0.847	0.100
4_026	581340.79	1099150.22	4337.53	-0.086	0.853	-0.071
4_027	581339.72	1101703.16	4344.37	0.053	0.691	0.081
4_028	581342.46	1104232.20	4310.19	-0.055	0.265	0.027
4_029	581328.67	1106744.28	4304.31	0.008	0.672	0.163
4_030	581320.74	1109283.02	4321.96	-0.382	0.850	-0.055
4_031	581341.65	1111856.09	4315.44	0.129	0.833	0.029
4_032	581364.99	1114363.82	4328.13	-0.076	0.644	-0.071
4_033	581395.60	1116936.57	4318.92	0.263	0.988	-0.158
4_034	581419.92	1119473.53	4309.22	-0.020	0.403	0.101
4_035	581441.22	1122003.64	4266.73	-0.158	0.958	0.075
4_036	581440.38	1124494.55	4290.06	0.035	0.527	0.372
4_037	581438.33	1127059.43	4357.65	-0.234	0.734	-0.027
4_038	581444.50	1129591.49	4363.99	-0.198	0.486	-0.013
4_039	581439.26	1132147.84	4367.63	0.311	0.431	0.003
4_040	581425.39	1134670.05	4331.11	-0.522	0.298	0.120
4_041	581390.53	1137221.82	4320.82	0.083	0.666	0.275
4_042	581380.53	1139733.92	4293.94	-0.577	0.545	-0.278
4_043	581370.93	1142272.34	4311.64	-0.008	0.957	0.168
4_044	581371.03	1144814.47	4320.49	-0.430	0.456	-0.294
4_045	581359.40	1147343.42	4362.34	0.181	0.492	-0.364
4_046	581359.00	1149894.98	4347.63	0.205	0.443	-0.201
4_047	581368.06	1152430.44	4341.74	-0.134	0.845	-0.020
4_048	581390.65	1154917.83	4331.99	-0.302	0.504	0.174
4_049	581404.57	1157467.63	4342.39	-0.551	0.918	0.326
4_050	581423.36	1160037.54	4363.72	-0.110	0.815	0.139
4_051	581444.70	1162545.62	4378.61	-0.151	0.645	0.096
4_052	581447.99	1165112.71	4368.32	-0.417	1.162	0.651



4_053	581414.59	1167622.15	4353.31	-0.077	0.885	0.065
5_001	585821.57	1035681.40	4320.94	-0.270	-0.832	0.060
5_002	585825.82	1038199.36	4322.38	0.462	-0.630	0.082
5_003	585815.76	1040697.52	4385.87	0.068	-0.322	-0.010
5_004	585798.20	1043261.45	4399.20	0.067	-1.033	0.553
5_005	585771.08	1045801.92	4330.71	0.353	-0.571	-0.167
5_006	585768.49	1048329.38	4368.82	0.311	-0.011	0.113
5_007	585774.97	1050869.71	4377.51	0.216	-0.242	-0.170
5_008	585775.82	1053408.24	4361.39	0.296	-0.272	-0.258
5_009	585815.62	1055972.18	4349.86	0.458	0.020	-0.270
5_010	585816.47	1058480.66	4318.34	-0.100	-0.081	-0.321
5_011	585804.17	1061003.48	4331.46	0.131	-0.097	-0.199
5_012	585791.81	1063555.13	4346.05	-0.344	0.034	0.105
5_013	585784.95	1066121.95	4290.76	0.384	0.125	0.025
5_014	585793.25	1068634.81	4314.08	0.220	0.048	0.067
5_015	585803.75	1071133.85	4341.84	0.310	-0.434	0.205
5_016	585798.57	1073730.90	4300.28	0.549	-0.318	0.155
5_017	585813.73	1076216.49	4296.25	0.285	0.054	0.017
5_018	585826.12	1078754.13	4340.15	0.120	0.130	-0.005
5_019	585809.67	1081261.87	4381.16	-0.188	0.246	-0.451
5_020	585811.99	1083859.61	4325.07	-0.119	-0.114	0.002
5_021	585811.03	1086401.19	4291.11	0.215	-0.150	0.307
5_022	585811.07	1088933.98	4286.35	-0.530	0.096	0.496
5_023	585828.86	1091442.71	4281.46	-0.241	0.046	0.634
5_024	585858.81	1093964.25	4293.78	0.279	0.219	-0.295
5_025	585852.25	1096505.54	4310.50	0.397	-0.089	-0.138
5_026	585846.12	1099029.45	4347.97	0.607	-0.040	-0.114
5_027	585847.26	1101587.13	4327.33	-0.186	-0.449	0.047
5_028	585839.37	1104155.13	4262.05	-0.549	-0.277	0.152
5_029	585817.38	1106665.14	4238.92	-0.210	-0.139	0.092
5_030	585832.44	1109165.08	4304.63	-0.072	-0.125	0.040
5_031	585833.76	1111718.36	4323.59	0.388	-0.194	0.096
5_032	585817.02	1114290.70	4334.81	0.363	-0.385	-0.507
5_033	585809.46	1116829.83	4311.89	-0.399	-0.509	0.606
5_034	585786.41	1119380.91	4294.37	0.022	-0.240	-0.529
5_035	585802.95	1121867.86	4343.27	0.408	-0.291	-0.078
5_036	585811.67	1124402.20	4363.54	0.132	-0.363	-0.007
5_037	585811.27	1126960.41	4314.31	0.038	-0.397	-0.065
5_038	585815.26	1129505.25	4286.56	-0.030	-0.051	-0.531
5_039	585821.85	1131966.25	4358.70	0.250	-0.163	0.031
5_040	585794.05	1134542.61	4362.92	0.149	-0.129	0.171
5_041	585798.09	1137108.62	4329.59	0.359	-0.217	-0.193
5_042	585791.20	1139608.99	4331.08	-0.233	-0.575	0.008
5_043	585792.54	1142189.10	4319.45	-0.120	-0.255	0.035
5_044	585770.76	1144698.48	4319.52	-0.083	-0.141	0.087
5_045	585775.59	1147234.05	4353.90	0.219	0.114	0.148
5_046	585806.82	1149745.11	4364.83	0.151	-0.241	-0.052
5_047	585786.74	1152298.22	4342.36	-0.382	-0.405	-0.033
5_048	585798.80	1154834.03	4321.93	0.108	-0.100	-0.328
5_049	585807.74	1157365.83	4327.46	-0.437	-0.240	0.157
5_050	585788.57	1159901.71	4340.91	-0.148	-0.051	-0.146
5_051	585788.19	1162437.57	4363.97	-0.189	-0.138	-0.074



5_052	585794.77	1164984.31	4375.97	-0.226	-0.123	-0.234
5_053	585743.54	1167548.44	4342.19	-0.995	-0.053	-0.235
6_001	590179.48	1035738.61	4331.54	0.162	-0.173	0.039
6_002	590173.81	1038290.72	4367.82	0.209	-0.096	-0.100
6_003	590166.33	1040840.63	4356.56	0.392	0.234	0.104
6_004	590158.40	1043366.24	4334.35	0.607	0.331	-0.270
6_005	590150.23	1045873.19	4297.00	-0.094	0.007	-0.390
6_006	590174.16	1048422.83	4320.51	0.322	0.434	-0.034
6_007	590182.55	1050978.79	4357.16	-0.226	0.319	0.117
6_008	590165.22	1053516.33	4338.26	-0.087	0.477	0.364
6_009	590170.83	1056050.28	4331.10	0.163	0.470	-0.479
6_010	590176.76	1058554.39	4303.58	0.280	0.514	0.181
6_011	590189.38	1061117.83	4324.48	0.104	0.502	-0.257
6_012	590201.81	1063674.99	4348.74	0.181	0.545	0.063
6_013	590189.38	1066182.98	4319.63	-0.047	0.744	-0.100
6_014	590199.52	1068701.23	4308.24	-0.164	0.797	0.092
6_015	590188.85	1071259.17	4316.35	-0.242	0.901	-0.111
6_016	590214.80	1073797.73	4318.29	0.062	0.664	0.061
6_017	590224.86	1076329.24	4344.68	-0.018	0.791	0.265
6_018	590232.61	1078878.05	4343.03	0.353	-0.008	-0.188
6_019	590224.21	1081436.58	4327.56	0.072	0.649	0.290
6_020	590209.52	1083939.35	4302.44	-0.238	0.912	0.062
6_021	590213.86	1086458.63	4324.80	-0.309	0.680	0.088
6_022	590231.80	1089032.96	4349.94	-0.455	0.696	0.508
6_023	590234.99	1091552.93	4334.38	-0.103	0.460	-0.351
6_024	590235.73	1094060.91	4323.40	-0.345	0.207	-0.128
6_025	590239.36	1096611.31	4320.52	-0.099	0.247	0.156
6_026	590225.50	1099143.50	4331.18	-0.205	0.386	-0.097
6_027	590213.62	1101697.62	4350.54	-0.154	0.799	-0.420
6_028	590216.86	1104236.51	4346.58	-0.378	0.556	-0.075
6_029	590227.23	1106742.91	4323.27	-0.038	0.680	0.060
6_030	590216.14	1109282.34	4320.16	-0.020	0.485	-0.092
6_031	590192.71	1111848.64	4330.16	0.427	0.411	-0.066
6_032	590185.79	1114408.00	4345.76	-0.209	0.653	0.404
6_033	590186.78	1116898.61	4308.70	-0.625	0.276	0.254
6_034	590182.06	1119453.28	4313.29	0.031	0.757	0.276
6_035	590161.96	1121969.38	4343.82	-0.132	0.732	0.170
6_036	590164.41	1124514.90	4348.73	-0.150	0.523	0.138
6_037	590180.35	1127018.05	4359.45	0.217	0.438	-0.347
6_038	590221.35	1129591.50	4385.28	0.283	0.675	0.032
6_039	590248.98	1132111.23	4380.29	0.137	0.504	-0.078
6_040	590270.83	1134662.47	4351.96	-0.086	0.028	0.001
6_041	590263.22	1137203.21	4332.11	-0.325	0.378	0.254
6_042	590238.78	1139731.40	4309.23	-0.075	0.885	0.031
6_043	590226.21	1142243.63	4309.92	-0.365	0.460	-0.113
6_044	590207.12	1144805.65	4341.48	0.024	0.098	0.014
6_045	590195.76	1147342.56	4346.54	-0.267	0.351	0.194
6_046	590197.26	1149895.29	4341.89	0.076	0.464	-0.205
6_047	590204.84	1152387.85	4309.63	-0.427	0.430	-0.061
6_048	590187.65	1154924.91	4316.70	-0.439	0.385	-0.080
6_049	590195.92	1157466.23	4318.66	-0.200	0.534	0.059
6_050	590214.23	1159986.11	4305.62	-0.027	0.475	-0.134



6_051	590226.28	1162534.94	4333.44	0.323	0.685	-0.068
6_052	590232.23	1165118.68	4326.78	0.011	0.615	0.420
6_053	590221.27	1167627.53	4255.12	-0.255	0.902	0.026
7_001	594664.89	1035628.97	4303.17	-0.238	-1.247	0.081
7_002	594653.73	1038183.00	4298.72	0.253	-0.449	-0.010
7_003	594638.13	1040701.18	4332.83	-0.286	-0.415	-0.069
7_004	594660.19	1043222.51	4370.46	0.254	-0.709	0.024
7_005	594676.59	1045781.41	4357.57	0.694	-0.335	0.311
7_006	594681.50	1048307.74	4328.15	-0.040	-0.718	0.322
7_007	594661.13	1050876.25	4310.25	0.105	-0.741	-0.067
7_008	594646.85	1053358.54	4328.24	-0.358	-0.254	0.044
7_009	594638.94	1055913.75	4343.57	0.163	-0.302	0.011
7_010	594618.73	1058441.60	4305.20	0.057	-0.094	0.172
7_011	594652.47	1060986.51	4269.71	0.064	-0.242	0.102
7_012	594661.04	1063553.05	4275.01	0.672	-0.288	0.532
7_013	594656.35	1066095.54	4278.91	0.536	-0.179	0.069
7_014	594645.16	1068602.38	4300.87	-0.036	-0.119	-0.247
7_015	594640.59	1071136.48	4361.92	-0.028	-0.099	0.194
7_016	594617.85	1073697.95	4293.89	0.131	-0.282	0.074
7_017	594623.55	1076228.62	4271.90	0.249	-0.125	-0.013
7_018	594637.12	1078749.26	4243.80	-0.038	0.006	-0.159
7_019	594638.37	1081257.19	4302.01	0.216	-0.122	-0.137
7_020	594638.57	1083833.80	4305.81	0.839	-0.010	-0.319
7_021	594621.82	1086360.33	4333.56	0.366	0.049	-0.037
7_022	594619.43	1088913.27	4347.52	-0.238	-0.235	-0.415
7_023	594636.58	1091465.03	4325.74	-0.301	-0.457	0.044
7_024	594630.75	1093951.83	4310.75	-0.059	-0.139	-0.052
7_025	594613.73	1096496.34	4289.06	-0.101	-0.259	0.557
7_026	594623.03	1099013.93	4282.64	-0.238	0.382	0.114
7_027	594641.55	1101617.22	4260.15	0.247	-0.183	-0.692
7_028	594652.33	1104066.16	4308.70	0.049	-0.062	0.066
7_029	594649.05	1106659.96	4318.32	0.395	-0.033	0.001
7_030	594623.31	1109193.73	4328.23	0.110	0.102	-0.226
7_031	594618.74	1111727.71	4328.39	0.044	-0.166	-0.136
7_032	594628.40	1114247.88	4348.97	-0.177	-0.191	-0.212
7_033	594636.63	1116824.48	4299.49	0.237	-0.574	-0.106
7_034	594625.62	1119348.69	4280.40	0.333	-0.306	0.161
7_035	594605.17	1121863.16	4275.64	0.130	0.030	-0.131
7_036	594634.63	1124381.86	4256.85	-0.022	-0.376	0.012
7_037	594629.16	1126907.40	4297.50	-0.009	-0.297	-0.019
7_038	594614.22	1129431.86	4331.83	0.228	-0.611	0.179
7_039	594628.04	1132037.60	4296.03	0.211	-0.292	0.124
7_040	594625.36	1134580.24	4266.29	-0.269	-0.358	0.125
7_041	594620.36	1137072.65	4268.81	-0.421	-0.069	0.020
7_042	594634.47	1139592.21	4273.23	-0.013	-0.316	-0.407
7_043	594646.59	1142180.45	4278.07	0.212	-0.236	0.059
7_044	594656.73	1144705.75	4269.87	-0.018	-0.139	0.201
7_045	594647.91	1147235.87	4267.66	-0.247	-0.468	0.352
7_046	594659.22	1149802.61	4232.05	-0.511	-0.189	-0.146
7_047	594692.69	1152293.46	4268.13	0.811	-0.108	-0.202
7_048	594678.60	1154812.85	4274.76	0.180	-0.418	-0.440
7_049	594675.51	1157355.08	4332.11	0.033	-0.447	0.943



7_050	594657.66	1159929.41	4315.94	-0.051	-0.006	-0.716
7_051	594652.73	1162466.77	4301.83	-0.183	-0.489	0.552
7_052	594655.95	1164994.34	4304.25	-0.379	-0.041	-0.040
7_053	594660.26	1167514.76	4307.24	-0.668	0.262	-0.237
8_001	599009.67	1035761.04	4304.58	1.048	0.048	-0.078
8_002	599002.08	1038284.25	4303.59	0.476	-0.021	-0.208
8_003	599005.21	1040838.89	4320.07	0.363	0.483	-0.211
8_004	599014.03	1043377.00	4340.18	-0.021	0.540	0.169
8_005	599003.18	1045902.29	4321.04	-0.181	0.175	-0.134
8_006	599003.35	1048452.04	4309.20	0.245	0.610	0.244
8_007	599005.39	1051015.06	4283.49	0.078	0.511	-0.023
8_008	598992.18	1053512.70	4233.01	-0.731	0.133	-0.550
8_009	598991.98	1056050.48	4264.98	-0.107	0.209	-0.041
8_010	599009.17	1058605.27	4284.38	-0.104	0.544	-0.045
8_011	599007.96	1061100.76	4275.35	-0.004	0.490	-0.251
8_012	599021.27	1063639.57	4295.52	-0.169	0.514	-0.071
8_013	599015.62	1066164.22	4297.15	-0.043	0.389	0.066
8_014	599015.81	1068723.71	4287.74	-0.214	0.703	-0.217
8_015	599027.25	1071267.51	4302.93	0.046	0.193	0.274
8_016	599049.87	1073802.62	4321.44	0.168	0.376	-0.178
8_017	599058.95	1076361.38	4313.31	0.148	0.817	0.051
8_018	599049.04	1078850.06	4293.59	0.100	0.594	0.115
8_019	599039.73	1081392.47	4302.16	-0.046	0.959	0.147
8_020	599037.13	1083957.11	4310.23	0.257	0.421	-0.126
8_021	599045.15	1086458.12	4311.69	-0.153	0.267	0.069
8_022	599043.21	1088992.99	4321.26	0.524	0.926	-0.449
8_023	599021.96	1091531.05	4342.00	0.155	0.739	0.605
8_024	599004.94	1094109.34	4337.91	-0.449	0.513	0.028
8_025	598998.60	1096622.24	4330.58	-0.170	0.498	-0.042
8_026	598993.61	1099177.66	4300.65	0.135	0.731	-0.061
8_027	598991.95	1101681.78	4282.84	-0.490	0.620	-0.273
8_028	598997.96	1104214.71	4319.19	0.062	0.539	0.516
8_029	598995.32	1106750.65	4344.51	-0.283	0.532	1.102
8_030	599020.32	1109309.94	4339.91	-0.176	0.438	0.235
8_031	599032.19	1111834.84	4336.83	-0.205	0.162	0.111
8_032	599045.44	1114362.03	4308.53	-0.226	0.581	0.061
8_033	599042.17	1116900.30	4303.40	-0.005	0.726	-0.279
8_034	599012.71	1119461.93	4312.86	-0.025	0.168	-0.072
8_035	598983.27	1121976.54	4283.99	0.100	0.521	0.169
8_036	598989.48	1124506.14	4274.34	0.090	0.131	0.156
8_037	598995.29	1127039.75	4278.24	0.294	0.580	-0.110
8_038	598989.55	1129584.49	4293.90	-0.237	0.443	0.122
8_039	598998.59	1132132.57	4295.59	0.022	0.734	-0.081
8_040	599021.55	1134643.35	4283.51	-0.016	0.267	0.019
8_041	599023.44	1137185.90	4294.65	-0.204	0.380	-0.021
8_042	599040.95	1139736.95	4299.48	-0.156	0.378	0.111
8_043	599063.58	1142242.13	4314.39	0.348	0.457	-0.330
8_044	599049.90	1144816.46	4338.45	-0.112	0.708	0.123
8_045	599060.68	1147321.92	4333.16	0.032	0.136	0.095
8_046	599082.15	1149929.55	4297.94	0.050	0.295	0.126
8_047	599073.49	1152409.69	4254.59	-0.213	0.159	-0.444
8_048	599053.99	1154890.87	4266.04	-0.121	0.913	0.035



8_049	599045.10	1157480.78	4316.71	-0.243	0.411	-0.216
8_050	599019.38	1160015.57	4279.19	-0.237	0.056	-0.149
8_051	599005.14	1162551.88	4266.12	-0.589	0.488	0.358
8_052	599032.73	1165088.24	4292.71	-0.162	0.692	0.107
8_053	599065.77	1167645.17	4304.07	-0.182	0.613	0.059
9_001	603438.06	1035689.02	4362.91	-0.135	-0.867	0.123
9_002	603434.65	1038194.75	4328.98	0.504	-0.466	0.204
9_003	603431.09	1040732.20	4343.63	0.315	-0.064	0.155
9_004	603424.40	1043217.98	4369.14	0.253	-0.307	-0.140
9_005	603421.28	1045802.60	4363.14	0.263	-0.325	-0.268
9_006	603409.78	1048328.71	4348.36	0.315	-0.415	0.020
9_007	603414.20	1050864.67	4343.82	0.259	-0.393	-0.082
9_008	603423.51	1053400.75	4328.09	0.267	-0.100	-0.216
9_009	603424.96	1055952.49	4317.64	0.003	-0.196	-0.136
9_010	603426.29	1058472.56	4321.12	0.061	-0.031	-0.156
9_011	603411.09	1060991.70	4342.33	0.418	-0.190	0.171
9_012	603422.63	1063543.83	4318.22	0.208	-0.075	-0.160
9_013	603441.25	1066084.72	4317.07	0.140	-0.126	0.317
9_014	603434.97	1068600.07	4355.35	-0.653	0.111	0.433
9_015	603430.44	1071174.44	4368.15	-0.108	0.003	0.028
9_016	603436.00	1073696.27	4364.74	-0.163	-0.144	-0.358
9_017	603434.37	1076227.23	4344.61	0.146	-0.249	0.095
9_018	603440.43	1078786.75	4308.88	-0.257	-0.316	-0.101
9_019	603443.48	1081281.93	4337.45	-0.276	0.054	0.044
9_020	603460.88	1083796.66	4354.58	0.040	0.023	-0.005
9_021	603448.11	1086362.58	4352.25	-0.167	-0.253	-0.023
9_022	603445.14	1088912.40	4343.38	-0.315	-0.166	0.163
9_023	603446.56	1091442.30	4354.67	0.068	0.106	0.089
9_024	603425.76	1093951.40	4401.64	-0.070	-0.428	0.537
9_025	603429.55	1096543.25	4391.63	-0.340	-0.070	-0.093
9_026	603427.51	1099068.95	4380.74	-0.261	-0.527	-0.112
9_027	603429.06	1101603.65	4316.17	-0.521	-0.312	-0.192
9_028	603438.67	1104132.66	4312.26	-0.364	-0.334	-0.184
9_029	603472.90	1106615.11	4308.90	-0.585	-0.363	-0.015
9_030	603490.28	1109161.24	4340.95	0.023	0.128	0.000
9_031	603486.31	1111713.23	4340.18	-0.268	0.047	0.069
9_032	603493.25	1114281.63	4352.59	-0.147	-0.087	0.010
9_033	603481.65	1116788.61	4344.93	-0.468	-0.082	-0.075
9_034	603472.61	1119355.91	4300.49	0.013	-0.304	-0.058
9_035	603448.87	1121860.38	4330.26	-0.082	-0.264	0.199
9_036	603441.70	1124402.56	4365.03	0.006	0.081	-0.145
9_037	603440.14	1126995.55	4285.17	0.054	-0.067	0.252
9_038	603457.62	1129460.81	4296.19	-0.293	-0.629	0.016
9_039	603462.60	1132022.20	4308.57	-0.509	-0.072	-0.295
9_040	603476.73	1134529.28	4326.87	-0.112	-0.169	0.112
9_041	603459.74	1137058.90	4331.49	-0.380	-0.489	0.433
9_042	603456.84	1139607.22	4316.05	-0.003	-0.117	0.151
9_043	603447.71	1142176.24	4303.54	-0.146	-0.468	0.507
9_044	603453.98	1144684.05	4342.84	-0.385	-0.132	0.688
9_045	603468.47	1147218.41	4332.72	0.074	-0.303	-0.002
9_046	603476.27	1149748.02	4372.62	-0.052	-0.204	-0.307
9_047	603450.55	1152320.75	4372.00	-0.684	-0.328	0.471



9_048	603450.20	1154869.83	4357.78	-0.105	-0.676	0.282
9_049	603449.06	1157394.17	4326.93	-0.347	-0.336	0.178
9_050	603450.43	1159934.24	4322.04	-0.150	-0.428	0.037
9_051	603470.68	1162460.25	4294.05	-0.232	-0.552	0.202
9_052	603467.16	1164967.72	4306.85	-0.183	0.362	-0.516
9_053	603461.14	1167499.29	4324.42	-0.499	0.416	0.076
10_001	607929.27	1035770.71	4369.98	1.098	-0.429	-0.118
10_002	607907.13	1038307.15	4347.01	0.837	-0.103	-0.201
10_003	607849.76	1040829.66	4332.42	0.340	0.704	0.072
10_004	607829.16	1043355.97	4315.81	0.115	0.520	-0.093
10_005	607848.52	1045914.20	4347.17	0.164	0.408	0.058
10_006	607884.60	1048442.94	4368.83	0.149	0.109	-0.032
10_007	607880.93	1050970.02	4335.77	-0.341	0.407	0.030
10_008	607865.84	1053522.86	4335.16	0.600	0.183	-0.076
10_009	607833.29	1056051.74	4359.54	-0.116	0.864	-0.138
10_010	607827.59	1058580.16	4351.44	-0.164	0.326	-0.056
10_011	607829.22	1061132.24	4338.77	0.107	0.092	0.080
10_012	607862.37	1063669.04	4310.24	-0.006	0.896	0.157
10_013	607883.29	1066205.21	4330.67	-0.191	0.353	-0.312
10_014	607896.91	1068723.40	4314.25	-0.220	0.123	0.174
10_015	607884.08	1071255.38	4319.85	-0.027	0.604	0.267
10_016	607867.58	1073784.38	4336.88	-0.341	0.470	0.142
10_017	607856.44	1076315.57	4367.38	-0.237	0.696	-0.126
10_018	607867.81	1078866.65	4362.26	-0.104	0.354	0.021
10_019	607868.59	1081407.59	4353.36	0.116	0.240	-0.039
10_020	607846.89	1083925.20	4318.17	-0.282	0.260	0.153
10_021	607821.35	1086488.62	4316.13	-0.213	0.432	-0.341
10_022	607825.23	1089012.42	4326.12	-0.160	0.431	0.530
10_023	607827.26	1091538.42	4282.54	-0.490	0.034	0.264
10_024	607834.26	1094109.02	4264.81	-0.160	0.842	-0.086
10_025	607838.16	1096616.55	4289.19	-0.248	0.118	-0.723
10_026	607841.38	1099166.14	4304.70	0.052	0.451	-0.255
10_027	607846.07	1101691.74	4315.80	0.074	0.578	-0.299
10_028	607859.86	1104215.78	4314.02	-0.639	0.657	0.001
10_029	607903.73	1106787.38	4351.40	-0.020	0.528	-0.002
10_030	607904.01	1109315.46	4347.80	-0.155	0.352	-0.042
10_031	607878.93	1111841.91	4330.96	-0.223	0.356	0.290
10_032	607870.26	1114378.71	4309.18	-0.198	0.722	-0.572
10_033	607877.04	1116881.70	4350.16	-0.082	0.385	-0.063
10_034	607875.34	1119447.10	4390.53	-0.464	0.135	0.318
10_035	607884.42	1122002.00	4349.20	0.002	0.483	0.102
10_036	607881.87	1124506.81	4326.20	0.071	0.369	0.021
10_037	607873.61	1127082.60	4335.76	-0.130	0.375	0.057
10_038	607878.00	1129597.98	4325.39	-0.478	0.451	0.150
10_039	607893.23	1132127.60	4315.21	-0.523	0.511	0.340
10_040	607880.65	1134623.85	4318.06	-0.466	0.418	-0.412
10_041	607886.98	1137168.92	4352.24	-0.150	0.666	0.571
10_042	607894.08	1139741.03	4356.44	-0.310	0.656	-0.404
10_043	607886.73	1142276.96	4333.30	-0.257	0.528	-0.144
10_044	607857.46	1144827.59	4332.41	-0.810	-0.325	0.105
10_045	607853.96	1147314.82	4302.60	-0.266	0.097	-0.417
10_046	607868.93	1149871.73	4336.62	-0.163	0.838	-0.215



10_047	607870.11	1152427.28	4371.24	-0.305	-0.004	0.318
10_048	607882.60	1154960.65	4351.10	-0.431	0.142	0.009
10_049	607891.74	1157502.10	4323.63	-0.489	0.482	-0.157
10_050	607890.27	1160016.45	4314.47	-0.294	0.343	0.120
10_051	607876.45	1162565.61	4310.17	-0.474	0.409	0.143
10_052	607871.84	1165077.96	4293.68	-0.780	0.626	-0.043
10_053	607895.82	1167627.06	4316.78	-0.244	0.792	-0.099
11_001	612288.78	1035640.12	4342.84	0.328	-0.844	0.060
11_002	612290.34	1038165.94	4352.77	0.435	-0.599	-0.007
11_003	612292.20	1040713.91	4369.32	0.371	-0.726	0.097
11_004	612292.63	1043268.40	4382.59	0.105	0.126	0.143
11_005	612294.25	1045816.47	4372.00	0.276	-0.577	-0.153
11_006	612294.27	1048338.88	4357.82	-0.180	-0.590	0.205
11_007	612285.44	1050865.92	4395.79	0.399	-0.202	0.445
11_008	612254.88	1053384.06	4415.07	0.215	-0.642	0.483
11_009	612226.87	1055969.88	4384.12	-0.106	-0.204	-0.087
11_010	612230.88	1058464.06	4371.34	-0.150	-0.762	-0.007
11_011	612246.14	1061015.52	4348.46	-0.140	-0.454	-0.024
11_012	612269.27	1063548.62	4318.80	0.060	-0.372	0.009
11_013	612296.69	1066043.25	4332.87	0.048	-0.080	0.086
11_014	612308.01	1068589.63	4343.89	0.010	-0.170	-0.417
11_015	612293.41	1071132.59	4355.54	-0.093	-0.299	-0.132
11_016	612297.15	1073682.40	4385.75	-0.521	-0.399	0.037
11_017	612287.76	1076205.27	4374.18	0.017	-0.369	-0.098
11_018	612269.11	1078782.68	4331.66	-0.324	-0.099	-0.002
11_019	612278.33	1081320.51	4329.16	0.157	-0.117	-0.008
11_020	612304.72	1083829.11	4353.68	-0.261	-0.366	-0.120
11_021	612288.59	1086367.99	4348.55	-0.117	-0.039	-0.156
11_022	612282.65	1088936.90	4308.25	-0.073	-0.236	-0.158
11_023	612292.14	1091436.88	4316.89	-0.125	-0.059	0.032
11_024	612301.95	1093949.80	4340.57	-0.156	-0.178	0.092
11_025	612326.08	1096514.95	4360.14	0.363	-0.061	0.549
11_026	612309.75	1099039.92	4379.44	-0.221	-0.200	0.369
11_027	612304.51	1101581.08	4371.37	-0.048	-0.267	-0.129
11_028	612271.78	1104174.54	4313.44	-0.275	-0.646	-0.096
11_029	612250.26	1106673.87	4349.92	-0.314	-0.386	-0.129
11_030	612258.01	1109189.98	4370.81	0.087	-0.370	-0.021
11_031	612282.97	1111719.47	4400.67	-0.350	-0.247	0.260
11_032	612293.46	1114220.39	4440.98	-0.042	-0.465	0.126
11_033	612268.99	1116811.27	4359.42	-0.005	-0.551	-0.328
11_034	612280.95	1119368.23	4315.63	-0.225	-0.376	-0.338
11_035	612277.02	1121858.90	4387.89	-0.120	0.140	0.030
11_036	612278.85	1124399.50	4356.74	-0.142	-0.327	0.047
11_037	612277.80	1126980.44	4303.03	-0.199	-0.124	-0.123
11_038	612298.00	1129486.96	4329.08	-0.300	-0.445	-0.094
11_039	612287.75	1132032.44	4344.53	0.083	-0.545	0.025
11_040	612288.45	1134535.22	4367.78	-0.298	-0.394	-0.062
11_041	612310.25	1137076.97	4360.86	-0.349	-0.726	-0.044
11_042	612317.26	1139645.44	4351.06	0.087	-0.597	-0.022
11_043	612305.91	1142154.90	4358.02	-0.019	-0.562	0.184
11_044	612305.14	1144658.27	4394.74	-0.417	-0.508	0.053
11_045	612276.54	1147213.99	4382.39	-0.437	-0.268	-0.236



11_046	612255.42	1149743.18	4370.10	-0.542	-0.300	-0.354
11_047	612275.78	1152270.25	4380.63	-0.612	-0.269	0.176
11_048	612273.35	1154838.55	4336.24	-0.579	-0.349	-0.128
11_049	612284.88	1157359.88	4329.65	-0.271	-0.423	0.048
11_050	612291.06	1159881.45	4368.80	-0.257	-0.340	0.048
11_051	612296.51	1162450.09	4368.66	-0.358	-0.819	0.100
11_052	612292.89	1165012.75	4311.26	-0.295	0.082	0.191
11_053	612302.18	1167489.72	4334.22	-0.964	0.067	0.020
12_001	616671.18	1035741.85	4363.01	0.937	0.209	-0.887
12_002	616667.65	1038278.82	4381.91	0.446	0.364	0.560
12_003	616643.43	1040828.16	4385.44	0.004	0.589	0.009
12_004	616631.55	1043368.90	4374.88	0.094	0.496	0.128
12_005	616634.36	1045923.58	4358.18	-0.014	0.204	0.128
12_006	616648.29	1048455.26	4315.77	0.166	0.937	-0.203
12_007	616648.77	1050980.77	4342.81	0.120	0.292	0.189
12_008	616660.45	1053508.10	4362.53	-0.278	0.280	0.003
12_009	616667.18	1056035.00	4387.40	-0.004	0.174	-0.101
12_010	616648.48	1058582.56	4388.95	0.107	-0.038	-0.071
12_011	616629.52	1061104.13	4380.51	-0.186	0.582	0.001
12_012	616634.84	1063659.74	4362.77	-0.396	0.683	-0.177
12_013	616648.41	1066214.05	4379.08	0.179	0.231	-0.270
12_014	616651.97	1068731.41	4382.47	-0.254	0.160	-0.207
12_015	616674.65	1071259.80	4383.21	-0.126	0.604	-0.031
12_016	616675.55	1073786.86	4397.57	0.373	0.304	-0.197
12_017	616678.05	1076306.28	4403.57	0.233	0.460	-0.085
12_018	616672.61	1078883.87	4447.14	0.194	0.148	0.069
12_019	616673.20	1081410.72	4402.10	0.130	0.107	0.134
12_020	616675.44	1083933.12	4334.39	0.283	0.475	0.069
12_021	616676.78	1086476.65	4348.21	0.300	0.147	0.017
12_022	616673.52	1089019.26	4360.49	-0.156	0.183	0.035
12_023	616677.10	1091524.23	4363.53	-0.278	0.647	-0.646
12_024	616677.57	1094104.75	4413.70	0.010	0.238	-0.074
12_025	616670.07	1096636.14	4404.53	0.062	0.531	-0.168
12_026	616681.90	1099155.89	4348.66	-0.128	0.179	-0.279
12_027	616700.56	1101701.50	4359.40	-0.471	0.087	0.113
12_028	616702.58	1104237.40	4364.53	0.216	0.432	0.064
12_029	616683.30	1106739.45	4348.83	-0.067	0.414	-0.169
12_030	616682.39	1109309.65	4342.44	0.071	0.373	0.099
12_031	616682.43	1111849.35	4343.59	-0.414	0.303	0.049
12_032	616683.20	1114356.89	4366.61	0.252	-0.051	0.033
12_033	616661.22	1116889.41	4359.41	-0.185	0.539	-0.035
12_034	616655.50	1119471.76	4376.64	0.273	0.402	-0.389
12_035	616658.59	1121976.11	4357.32	0.005	0.415	-0.115
12_036	616668.50	1124519.20	4329.55	0.498	0.406	0.284
12_037	616673.21	1127055.22	4354.15	-0.054	0.343	0.018
12_038	616683.04	1129600.40	4366.41	0.017	0.447	-0.187
12_039	616663.87	1132124.01	4371.33	-0.227	0.286	-0.103
12_040	616656.99	1134651.08	4351.20	-0.584	0.170	-0.135
12_041	616656.79	1137183.06	4355.92	-0.152	0.421	-0.853
12_042	616651.06	1139736.37	4374.94	0.166	0.481	-0.746
12_043	616651.81	1142278.16	4413.71	-0.131	0.255	0.058
12_044	616659.29	1144804.11	4383.96	0.140	-0.187	0.190



12_045	616661.78	1147311.55	4360.39	-0.088	0.389	-0.293
12_046	616671.51	1149864.88	4358.34	-0.236	0.747	-0.276
12_047	616688.26	1152394.08	4371.28	-0.150	0.248	0.103
12_048	616682.27	1154932.75	4329.60	-0.264	0.452	-0.178
12_049	616687.47	1157488.54	4315.58	-0.388	0.105	0.003
12_050	616711.37	1160023.05	4330.80	-0.241	0.670	0.091
12_051	616719.77	1162557.32	4332.77	-0.584	0.266	-0.221
12_052	616722.58	1165114.19	4329.87	-0.001	0.877	-0.149
12_053	616723.68	1167640.14	4328.50	-0.354	0.592	0.225
13_001	621106.19	1035650.73	4420.22	0.696	-0.411	0.215
13_002	621095.20	1038205.63	4388.95	0.563	-0.503	0.142
13_003	621081.61	1040745.96	4347.23	0.110	-0.648	0.056
13_004	621075.91	1043242.76	4363.46	0.209	-0.296	0.017
13_005	621088.54	1045773.26	4392.59	0.138	-0.810	-0.242
13_006	621092.83	1048336.16	4405.69	0.142	-0.740	-0.063
13_007	621081.73	1050885.73	4414.24	-0.151	-1.021	0.341
13_008	621090.22	1053442.64	4374.48	-0.109	-0.810	0.077
13_009	621089.09	1055932.01	4360.56	-0.101	-0.946	-0.262
13_010	621103.78	1058460.39	4346.05	0.210	-0.798	0.234
13_011	621103.33	1060997.38	4386.66	-0.064	-0.440	-0.001
13_012	621101.25	1063521.35	4388.96	-0.260	-1.080	0.116
13_013	621087.39	1066082.56	4384.68	-0.006	-0.655	0.114
13_014	621096.30	1068635.76	4366.43	-0.166	-0.395	0.124
13_015	621110.79	1071148.65	4383.48	-0.172	-0.625	0.121
13_016	621110.72	1073694.75	4414.18	-0.276	-0.582	0.050
13_017	621103.93	1076212.64	4426.42	0.049	-0.631	0.154
13_018	621102.73	1078771.68	4402.59	0.087	-0.639	0.058
13_019	621100.59	1081323.55	4377.17	0.011	-0.546	0.110
13_020	621087.21	1083849.54	4343.96	-0.358	-0.663	-0.205
13_021	621105.12	1086346.38	4355.68	-0.027	-0.508	0.357
13_022	621103.59	1088894.34	4381.18	0.371	-0.470	0.199
13_023	621102.30	1091413.96	4383.45	0.487	-0.558	0.107
13_024	621084.93	1093966.28	4361.44	0.231	-0.887	0.217
13_025	621086.36	1096520.28	4333.40	-0.283	-0.728	0.009
13_026	621091.87	1099041.67	4332.40	-0.255	-0.461	0.045
13_027	621085.51	1101575.01	4380.92	-0.054	-0.305	0.262
13_028	621097.69	1104117.13	4372.24	-0.149	-0.576	0.033
13_029	621093.04	1106677.90	4341.63	0.244	-0.477	-0.052
13_030	621104.20	1109170.59	4371.22	-0.160	-1.009	0.059
13_031	621112.53	1111755.94	4345.78	-0.181	-0.910	0.419
13_032	621095.64	1114271.93	4325.32	-0.760	-0.163	-0.239
13_033	621082.02	1116740.09	4350.48	-0.224	-0.275	-0.088
13_034	621088.21	1119314.76	4359.58	-0.060	-0.266	0.257
13_035	621122.21	1121873.11	4341.86	-0.023	-0.468	0.127
13_036	621120.30	1124391.90	4360.93	0.125	-0.284	0.177
13_037	621118.92	1126940.36	4349.43	-0.015	-0.375	-0.075
13_038	621096.35	1129483.29	4352.96	0.148	-1.089	0.127
13_039	621090.90	1132028.98	4329.90	0.293	-0.599	-0.004
13_040	621074.07	1134582.28	4301.47	0.125	-0.555	0.223
13_041	621112.07	1137075.01	4323.94	-0.074	-0.559	0.124
13_042	621120.06	1139583.84	4373.75	-0.154	-0.114	0.128
13_043	621104.82	1142166.32	4336.71	0.518	-0.808	0.746



13_044	621097.20	1144717.44	4309.05	-0.233	-1.003	-0.072
13_045	621108.89	1147219.32	4337.28	0.013	-0.361	0.020
13_046	621111.69	1149754.05	4376.37	-0.601	-0.361	-0.101
13_047	621108.26	1152330.53	4346.76	0.072	-0.647	0.633
13_048	621090.11	1154853.43	4337.40	-0.108	-0.324	-0.141
13_049	621095.47	1157376.79	4346.89	-0.314	-0.256	-0.172
13_050	621085.70	1159908.42	4357.00	-0.259	-0.564	-0.241
13_051	621080.32	1162444.83	4383.47	-0.005	-0.526	0.394
13_052	621101.78	1165004.03	4364.32	0.051	-0.587	0.299
13_053	621091.01	1167512.42	4362.21	-0.603	0.074	-0.070
14_001	625490.93	1035766.63	4323.63	0.890	-0.357	-0.302
14_002	625508.26	1038285.07	4323.48	0.549	-0.122	-0.049
14_003	625504.08	1040824.02	4315.43	0.517	0.015	0.242
14_004	625492.07	1043378.98	4304.91	0.325	0.116	0.183
14_005	625462.04	1045917.48	4292.58	-0.418	0.268	-0.075
14_006	625452.86	1048439.05	4304.02	0.269	0.242	0.352
14_007	625457.44	1050963.18	4320.65	-0.101	0.351	0.118
14_008	625474.87	1053509.08	4353.89	-0.052	0.154	0.030
14_009	625494.64	1056035.45	4347.76	-0.135	-0.306	-0.367
14_010	625501.10	1058599.07	4356.58	0.000	-0.130	-0.080
14_011	625476.58	1061118.17	4315.36	-0.028	-0.185	0.042
14_012	625472.06	1063614.40	4333.73	-0.165	-0.077	0.156
14_013	625478.80	1066167.65	4367.98	-0.259	0.139	0.121
14_014	625499.64	1068720.64	4386.77	0.062	0.146	0.405
14_015	625490.99	1071256.10	4361.29	-0.108	-0.223	-0.188
14_016	625487.43	1073799.82	4354.82	-0.505	-0.131	0.006
14_017	625489.78	1076333.72	4337.22	0.205	-0.005	0.031
14_018	625476.50	1078879.17	4324.94	0.054	-0.130	-0.134
14_019	625474.30	1081401.63	4279.64	-0.079	0.077	-0.213
14_020	625465.23	1083930.78	4279.29	-0.451	0.221	-0.482
14_021	625480.84	1086469.81	4313.39	-0.376	0.111	0.056
14_022	625495.12	1088995.72	4348.32	-0.312	0.049	-0.031
14_023	625483.56	1091574.40	4357.84	-0.347	0.051	0.041
14_024	625488.47	1094071.62	4306.09	0.221	-0.194	-0.085
14_025	625497.81	1096624.67	4309.50	0.405	-0.031	0.146
14_026	625503.59	1099159.24	4328.82	-0.059	0.381	-0.067
14_027	625512.93	1101688.44	4339.77	-0.066	0.054	-0.042
14_028	625527.57	1104199.16	4355.15	-0.135	-0.223	-0.300
14_029	625539.18	1106777.24	4343.67	0.087	-0.222	-0.055
14_030	625497.86	1109308.49	4329.78	0.104	-0.204	0.175
14_031	625464.72	1111844.22	4316.69	-0.301	0.129	-0.120
14_032	625455.00	1114359.55	4317.36	-0.511	0.026	-0.049
14_033	625475.21	1116875.05	4313.21	0.139	-0.165	-0.163
14_034	625506.81	1119432.40	4339.23	-0.348	-0.256	-0.067
14_035	625532.77	1121989.68	4380.22	0.319	-0.063	-0.127
14_036	625526.15	1124539.43	4345.54	0.226	-0.134	-0.237
14_037	625518.87	1127026.99	4318.79	-0.181	-0.334	0.119
14_038	625517.89	1129576.46	4303.69	-0.171	0.189	0.020
14_039	625521.23	1132143.65	4358.07	-0.338	-0.041	0.275
14_040	625529.16	1134661.52	4364.80	-0.111	-0.217	-0.296
14_041	625528.37	1137227.75	4334.16	-0.568	-0.052	0.050
14_042	625525.92	1139758.31	4287.12	-0.542	-0.147	-0.137



14_043	625532.98	1142290.33	4292.77	-0.293	0.248	0.009
14_044	625542.40	1144789.40	4306.62	-0.194	-0.242	-0.002
14_045	625531.32	1147328.74	4326.78	-0.037	0.271	0.142
14_046	625512.81	1149864.08	4334.60	0.130	0.405	-0.064
14_047	625507.50	1152431.29	4337.93	-0.366	0.367	-0.069
14_048	625508.72	1154964.05	4333.56	-0.047	-0.154	0.101
14_049	625504.45	1157484.20	4312.21	-0.456	0.279	-0.390
14_050	625518.12	1160017.54	4331.74	-0.165	0.279	-0.123
14_051	625517.86	1162561.76	4315.54	-0.650	-0.088	-0.312
14_052	625513.17	1165071.09	4306.76	-0.338	0.404	-0.057
14_053	625515.14	1167618.92	4331.40	0.084	0.879	0.237
15_001	629910.84	1035662.09	4377.10	-0.103	-0.988	0.447
15_002	629888.68	1038208.93	4334.12	0.719	-0.702	0.007
15_003	629880.18	1040718.04	4336.47	0.221	-0.206	-0.100
15_004	629893.64	1043237.80	4373.65	0.473	-1.105	0.008
15_005	629895.03	1045795.97	4366.38	0.271	-0.831	-0.088
15_006	629892.68	1048318.70	4389.60	0.330	-0.841	0.071
15_007	629893.57	1050893.92	4395.25	0.070	-0.900	0.197
15_008	629882.94	1053416.42	4373.98	-0.360	-1.098	-0.078
15_009	629866.96	1055939.82	4380.46	-0.606	-1.047	-0.015
15_010	629884.51	1058473.52	4416.42	-0.165	-1.004	0.026
15_011	629892.34	1061023.60	4388.64	-0.042	-0.932	-0.087
15_012	629877.17	1063547.52	4377.56	-0.540	-0.983	-0.052
15_013	629888.20	1066081.90	4352.63	-0.182	-1.354	-0.355
15_014	629892.21	1068597.66	4345.83	-0.056	-0.873	0.008
15_015	629912.59	1071112.43	4361.88	-0.161	-0.993	-0.016
15_016	629930.78	1073688.91	4375.63	0.037	-1.309	0.073
15_017	629926.64	1076187.56	4384.63	0.018	-0.962	-0.122
15_018	629909.82	1078746.44	4377.27	0.419	-0.687	-0.044
15_019	629908.96	1081293.00	4353.49	0.262	-0.483	0.001
15_020	629924.03	1083822.80	4335.88	0.555	-0.698	-0.126
15_021	629895.97	1086373.76	4327.69	0.100	-1.090	0.323
15_022	629900.71	1088911.71	4344.41	-0.062	-1.013	0.041
15_023	629918.08	1091434.12	4359.43	-0.345	-1.019	0.014
15_024	629913.63	1093974.57	4389.00	0.143	-0.936	0.126
15_025	629904.09	1096504.55	4386.86	0.219	-0.844	-0.008
15_026	629890.73	1099079.05	4356.64	-0.157	-1.548	-0.245
15_027	629879.87	1101606.87	4340.85	0.165	-1.374	0.131
15_028	629891.06	1104094.03	4364.71	-0.071	-0.905	0.111
15_029	629900.51	1106665.35	4373.65	0.073	-1.001	-0.071
15_030	629894.65	1109159.60	4388.05	-0.170	-1.105	0.417
15_031	629892.69	1111754.15	4389.46	-0.187	-1.481	0.079
15_032	629881.30	1114257.44	4394.44	-0.109	-1.310	-0.095
15_033	629851.82	1116822.65	4358.08	-0.347	-1.205	-0.369
15_034	629868.19	1119342.28	4333.34	0.155	-1.298	-0.064
15_035	629869.92	1121871.28	4319.02	-0.100	-0.918	-0.426
15_036	629884.23	1124395.18	4358.65	0.186	-1.276	0.191
15_037	629908.00	1126923.99	4389.13	-0.187	-0.773	0.292
15_038	629934.17	1129461.11	4415.22	0.172	-0.865	-0.104
15_039	629931.18	1132021.08	4370.33	0.003	-1.305	-0.581
15_040	629911.79	1134548.83	4352.88	-0.010	-0.650	0.124
15_041	629901.34	1137087.75	4329.79	0.147	-0.508	-0.281



15_042	629922.46	1139597.53	4349.11	-0.105	-0.943	-0.052
15_043	629959.34	1142122.76	4390.77	0.227	-0.566	0.016
15_044	629943.24	1144645.40	4377.47	0.003	-0.809	-0.069
15_045	629924.34	1147254.38	4347.82	0.089	-0.657	-0.248
15_046	629900.72	1149754.57	4350.25	-0.478	-0.757	0.032
15_047	629906.21	1152319.93	4342.40	-0.170	-1.223	-0.186
15_048	629905.02	1154838.34	4329.80	-0.090	-1.124	-0.033
15_049	629900.99	1157361.73	4335.07	-0.302	-0.809	-0.205
15_050	629895.94	1159914.41	4364.46	-0.198	-1.122	0.067
15_051	629890.07	1162451.56	4375.74	0.227	-0.679	-0.092
15_052	629897.93	1164970.79	4374.68	0.427	-0.410	-0.229
15_053	629895.27	1167536.93	4347.50	-0.255	-0.517	-0.729
16_001	634335.04	1035763.36	4356.74	0.520	-0.495	-0.138
16_002	634351.12	1038293.44	4342.40	0.149	-0.055	0.160
16_003	634360.46	1040820.59	4330.35	0.477	0.193	0.327
16_004	634352.73	1043363.63	4306.99	-0.009	0.258	0.222
16_005	634326.74	1045906.51	4315.10	-0.209	0.315	-0.010
16_006	634300.75	1048432.01	4328.01	-0.116	0.401	-0.041
16_007	634278.19	1050966.15	4319.51	-0.135	-0.050	-0.106
16_008	634278.75	1053484.80	4309.42	-0.336	-0.215	0.003
16_009	634303.30	1056043.12	4331.11	-0.292	-0.284	0.217
16_010	634331.90	1058605.33	4332.71	-0.129	0.199	0.045
16_011	634329.88	1061115.14	4313.63	-0.228	-0.431	-0.296
16_012	634318.38	1063641.86	4342.59	0.178	-0.168	0.049
16_013	634300.25	1066208.53	4347.82	-0.425	-0.243	-0.058
16_014	634294.99	1068717.20	4338.86	0.153	0.003	-0.096
16_015	634300.67	1071271.95	4362.05	-0.154	-0.006	0.026
16_016	634312.50	1073787.47	4371.71	0.173	-0.173	-0.147
16_017	634318.86	1076312.34	4393.37	0.086	-0.774	0.141
16_018	634315.06	1078848.50	4392.35	-0.375	0.153	0.218
16_019	634322.98	1081390.82	4383.82	0.180	-0.110	0.064
16_020	634331.06	1083928.53	4391.41	0.041	-0.005	0.099
16_021	634313.85	1086483.45	4404.09	0.133	-0.367	0.012
16_022	634292.44	1088981.11	4398.89	-0.357	-0.191	0.078
16_023	634278.78	1091538.74	4409.00	-0.218	-0.271	0.255
16_024	634272.34	1094076.61	4381.15	-0.226	-0.182	-0.036
16_025	634302.07	1096622.13	4354.93	0.255	-0.217	0.019
16_026	634316.11	1099157.43	4341.64	-0.069	-0.370	0.002
16_027	634312.51	1101693.02	4335.94	0.236	-0.346	-0.078
16_028	634321.50	1104234.92	4349.72	0.173	-0.544	-0.117
16_029	634329.57	1106766.02	4354.65	0.190	-0.243	-0.043
16_030	634323.21	1109296.59	4345.13	-0.128	-0.793	0.084
16_031	634316.02	1111806.69	4346.58	-0.099	-0.278	-0.162
16_032	634305.17	1114361.60	4353.21	-0.154	-0.469	0.014
16_033	634292.48	1116892.60	4333.34	-0.472	-0.353	-0.041
16_034	634287.92	1119443.69	4344.42	-0.295	-0.072	0.053
16_035	634312.14	1121989.56	4354.12	-0.149	-0.334	0.004
16_036	634327.29	1124500.02	4356.34	-0.152	-0.059	0.169
16_037	634319.03	1127050.26	4365.11	0.153	0.154	0.003
16_038	634293.51	1129588.30	4363.62	0.002	-0.021	-0.031
16_039	634275.15	1132110.74	4359.36	0.006	-0.386	-0.005
16_040	634270.34	1134661.76	4364.88	-0.280	0.125	-0.086

16_041	634280.53	1137212.88	4361.97	0.297	-0.351	0.044
16_042	634298.38	1139719.48	4357.37	0.347	0.023	0.205
16_043	634305.30	1142259.53	4357.79	0.242	-0.026	0.187
16_044	634301.83	1144799.35	4352.32	0.355	0.178	-0.018
16_045	634288.09	1147318.86	4340.84	0.286	-0.060	0.076
16_046	634283.76	1149884.07	4346.89	-0.096	-0.051	-0.105
16_047	634294.88	1152405.00	4366.54	-0.463	-0.463	-0.043
16_048	634310.65	1154931.86	4350.20	0.090	-0.296	0.090
16_049	634315.44	1157469.30	4350.42	0.028	-0.263	0.110
16_050	634321.19	1160004.40	4349.97	-0.150	-0.245	0.107
16_051	634333.90	1162562.30	4392.66	0.298	-0.530	0.190
16_052	634336.19	1165156.46	4387.52	-0.013	0.026	-0.042
16_053	634311.85	1167629.10	4316.72	0.192	0.021	-0.368

RMS of changes at Antenna Centers:

RMS-X: 0.305
 RMS-Y: 0.503
 RMS-Z: 0.238

Variance components for GPS observations

X: 0.68 Reduce the standard deviation a priori
 Y: 1.10
 Z: 0.85

Control points (X Y Z & Residuals)

F HV-01	567140.9077	1048179.9350	30.5180	0.0797	-0.1440	-0.5780
F HV-02	582229.5028	1038050.4789	31.6710	0.1688	-0.1251	-0.2580
F HV-03	592212.7206	1039619.0153	33.7690	0.3356	0.2083	0.2420
F HV-04	605236.3388	1039487.5072	34.5274	0.2498	-0.4268	0.0954
F HV-05	622856.3601	1039474.3039	40.0197	0.2341	-0.1521	0.0357
F HV-06	633491.7502	1042403.5815	41.4090	-0.4968	-0.1865	0.3690
F HV-07	629973.5320	1079007.0657	74.6401	-0.5100	-0.3663	-0.3269
F HV-08	612384.2121	1090458.2459	51.2275	-0.1009	-0.2361	-0.0485
F HV-09	587403.8292	1070861.9792	37.8635	-0.1928	0.1972	0.0915
F HV-10	569052.5598	1099107.2336	69.0314	0.5058	0.4356	0.4554
F HV-11	636420.5667	1140249.4854	97.8578	-0.0403	-0.3076	0.0918
F HV-12	610573.2907	1136375.2405	73.8608	-0.1763	0.3085	0.2518
F HV-13	584685.7934	1141562.4936	91.9698	0.4474	0.1676	0.0338
F HV-14	567456.5566	1141597.0035	65.4183	0.4996	0.1335	-0.2577
F HV-15	625819.0798	1164454.3226	114.5197	-0.5642	-0.0874	-0.1123
F HV-16	614917.7215	1167449.5927	118.5487	-0.4715	0.0277	-0.2803
F HV-17	599598.0420	1165436.4936	97.2820	0.0320	0.5536	-0.1360
H HV-18	582984.5886	1165788.3488	125.5478		0.1608	
H HV-19	570286.9272	1165022.4188	96.8687		0.2087	
H HVL-01	625223.7980	1039621.2992	39.9210		0.0130	
H HVL-02	620905.4321	1083492.9639	65.4429		-0.0881	
H HVL-03	626455.0291	1164465.7771	114.1847		-0.1983	
H HVL-04	571859.3152	1045917.4169	29.0998		0.1598	

H HVL-05	574845.4260	1109909.0400	67.1608	-0.0302
H HVL-06	574481.1104	1165206.6015	101.1264	0.4244
H HVL-07	594508.5773	1039534.2461	31.5030	-0.1900
H HVL-08	596708.1433	1098649.0951	42.3478	0.1398
H HVL-09	599619.4963	1164092.3482	94.6200	0.1910
H HVL-10	592923.9586	1070794.6641	47.9569	0.0009
H HVL-11	620958.9308	1134549.1068	81.2489	-0.1421

Maximum changes at control points:

X: -0.5642 at Point ID.: HV-15
 Y: 0.5536 at Point ID.: HV-17
 Z: -0.5780 at Point ID.: HV-01

RMS of changes at control points:

X: 0.3514
 Y: 0.2754
 Z: 0.2320

8.1 Units Of Measurement

The point restriction values and RMS values for the bundle block adjustments are in US survey Feet.

8.2 Summary of Results

The root mean square error (RMSE) of the ground control point residuals in US survey Feet are as follows:

<u>RMSE-X</u>	<u>RMSE-Y</u>	<u>RMSE-Z</u>
0.3514	0.2754	0.2320

8.3 Final Control and Pass Point Coordinates

Coordinate System- State Plane Florida West

Units- US survey feet

Horizontal Datum- NAD83/HARN

Vertical Datum- NAVD88

ID	Easting	Northing	Elevation
1_001_1	565599.763	1035603.941	30.718
1_001_2	565875.374	1035791.081	29.622
1_001_3	568009.266	1035546.223	27.970
1_001_4	568125.125	1035746.985	28.108
1_001_5	570241.391	1035429.754	30.145
1_001_6	570594.540	1035593.229	27.912
1_002_1	565735.525	1038212.456	30.069
1_002_2	566191.300	1038313.047	29.852
1_002_3	568079.662	1038079.896	29.312
1_002_4	568341.135	1038109.340	28.859
1_002_5	570403.484	1038127.309	28.986



1_002_6	570638.672	1038111.184	29.004
1_003_1	565667.617	1040661.745	30.935
1_003_2	566108.686	1040777.739	30.589
1_003_3	568074.448	1040687.616	30.444
1_003_4	568448.690	1040531.853	30.969
1_003_5	570418.816	1040597.462	29.430
1_003_6	570837.242	1040549.163	31.066
1_004_1	565911.833	1043292.890	27.590
1_004_2	566085.869	1043332.980	27.537
1_004_3	568099.091	1043026.577	31.758
1_004_4	568511.789	1043182.893	32.208
1_004_5	570448.699	1043240.131	30.477
1_004_6	570846.724	1043077.876	29.358
1_005_1	565785.831	1045851.305	29.659
1_005_2	566110.488	1045814.577	29.605
1_005_3	568308.152	1045623.740	29.421
1_005_4	568650.309	1045625.612	30.148
1_005_5	570427.626	1045646.023	31.176
1_005_6	570690.959	1045625.390	31.361
1_006_1	565744.225	1048453.649	29.361
1_006_2	566094.846	1048351.924	29.787
1_006_3	568185.402	1048233.675	29.272
1_006_4	568411.206	1048247.707	29.528
1_006_5	570474.684	1048271.667	30.482
1_006_6	570767.504	1048264.090	31.705
1_007_1	565785.548	1051053.435	26.675
1_007_2	566152.024	1050953.943	24.615
1_007_3	568091.206	1050692.114	29.566
1_007_4	568385.544	1050666.231	30.260
1_007_5	570405.215	1050860.631	29.989
1_007_6	570718.211	1050686.807	32.108
1_008_1	565757.406	1053676.171	24.003
1_008_2	566268.345	1053562.073	22.535
1_008_3	568010.724	1053234.113	30.216
1_008_4	568323.764	1053353.694	30.952
1_008_5	570411.932	1053368.192	31.368
1_008_6	570682.344	1053208.283	31.164
1_009_1	565776.905	1056087.224	21.100
1_009_2	566139.962	1055904.703	21.366
1_009_3	568110.455	1055897.149	28.361
1_009_4	568312.146	1055750.750	29.007
1_009_5	570383.994	1055812.323	26.700
1_009_6	570667.502	1055794.256	29.722
1_010_1	565665.187	1058569.577	20.717



1_010_2	566075.167	1058697.518	22.108
1_010_3	567908.784	1058450.911	24.068
1_010_4	568519.410	1058566.977	20.990
1_010_5	570461.218	1058327.442	28.035
1_010_6	570632.191	1058252.185	29.050
1_011_1	565660.951	1061182.803	21.978
1_011_2	566063.356	1061054.083	20.938
1_011_3	568103.170	1061074.016	20.719
1_011_4	568321.740	1061033.238	21.144
1_011_5	570258.922	1060889.036	24.715
1_011_6	570638.357	1061045.346	23.977
1_012_1	565751.837	1063630.406	21.637
1_012_2	566214.004	1063589.738	18.767
1_012_3	567981.369	1063645.712	21.786
1_012_4	568343.664	1063666.945	20.632
1_012_5	570307.311	1063450.724	21.925
1_012_6	570651.182	1063468.334	24.831
1_013_1	565879.207	1066029.658	14.596
1_013_2	566259.586	1066116.080	14.800
1_013_3	567984.852	1066052.559	19.747
1_013_4	568270.807	1066205.027	20.811
1_013_5	570247.029	1065950.882	21.005
1_013_6	570559.213	1065891.640	21.260
1_014_1	565597.735	1068490.359	10.570
1_014_2	565765.304	1068487.340	10.612
1_014_3	567800.638	1068602.775	11.105
1_014_4	567939.358	1068791.693	10.777
1_014_5	570224.734	1068569.095	16.884
1_014_6	570652.117	1068546.093	18.999
1_015_1	565641.737	1071240.366	11.724
1_015_2	565722.283	1071382.378	11.526
1_015_3	568086.490	1071094.489	11.842
1_015_4	568508.020	1071113.077	10.740
1_015_5	570326.169	1070983.973	13.497
1_015_6	570665.621	1070959.287	13.717
1_016_1	565685.231	1073805.537	19.974
1_016_2	565983.726	1073739.044	20.202
1_016_3	567751.464	1073969.665	23.074
1_016_4	567880.008	1074036.975	23.178
1_016_5	570349.912	1073394.452	15.545
1_016_6	570712.070	1073465.712	13.588
1_017_1	565672.488	1076341.136	38.903
1_017_2	565912.623	1076363.197	38.161
1_017_3	567938.599	1076110.752	23.030



1_017_4	568262.509	1076136.709	22.638
1_017_5	570132.683	1076205.015	13.666
1_017_6	570379.227	1076010.484	14.135
1_018_1	565605.337	1078918.168	45.723
1_018_2	565896.089	1078806.457	45.498
1_018_3	567932.468	1078844.452	39.396
1_018_4	568270.547	1078634.631	36.475
1_018_5	570395.628	1078600.879	21.817
1_018_6	570548.925	1078670.976	22.103
1_019_1	565748.526	1081437.450	46.496
1_019_2	566045.467	1081392.828	46.866
1_019_3	568008.424	1081348.449	41.221
1_019_4	568327.299	1081433.214	42.453
1_019_5	570320.524	1080964.342	38.356
1_019_6	570547.746	1080929.274	35.654
1_020_1	565783.806	1083883.592	49.389
1_020_2	566004.643	1083809.420	49.556
1_020_3	568085.290	1083627.354	47.396
1_020_4	568540.460	1083607.604	50.166
1_020_5	570405.702	1083750.410	47.829
1_020_6	570648.975	1083749.934	46.176
1_021_1	565725.817	1086373.343	49.488
1_021_2	565983.223	1086395.087	49.896
1_021_3	568184.144	1086313.042	46.715
1_021_4	568446.431	1086323.965	47.734
1_021_5	570441.285	1086416.814	39.453
1_021_6	570794.504	1086132.317	36.447
1_022_1	565789.317	1088967.707	51.758
1_022_2	566022.123	1088894.980	51.314
1_022_3	568044.115	1088853.791	50.628
1_022_4	568286.745	1088831.657	50.650
1_022_5	570409.957	1088711.649	45.613
1_022_6	570502.520	1088569.688	42.037
1_023_1	565752.129	1091594.803	54.276
1_023_2	566100.758	1091573.119	54.101
1_023_3	567849.593	1091338.593	53.039
1_023_4	568294.266	1091603.057	55.481
1_023_5	570312.820	1091162.331	52.719
1_023_6	570676.697	1091114.138	52.195
1_024_1	565660.187	1094119.391	56.567
1_024_2	566062.052	1094048.613	55.623
1_024_3	568121.933	1093820.512	56.360
1_024_4	568373.236	1093818.008	58.184
1_024_5	570240.557	1093667.982	57.589

1_024_6	570471.977	1093514.499	57.293
1_025_1	565584.195	1096535.232	57.414
1_025_2	566191.266	1096579.505	57.959
1_025_3	567938.234	1096190.609	62.525
1_025_4	568476.766	1096169.641	63.055
1_025_5	570345.858	1096235.050	62.575
1_025_6	570610.589	1096116.594	60.701
1_026_1	565640.153	1099204.922	71.494
1_026_2	566040.497	1099227.454	71.422
1_026_3	568173.749	1099055.921	69.738
1_026_4	568429.421	1099053.504	68.744
1_026_5	570492.214	1098891.853	69.735
1_026_6	570757.425	1098757.308	73.314
1_027_1	565752.347	1101748.788	90.634
1_027_2	566043.492	1101679.666	89.426
1_027_3	568076.520	1101583.065	88.062
1_027_4	568503.822	1101485.868	85.970
1_027_5	570401.126	1101473.455	80.409
1_027_6	570719.777	1101579.010	79.133
1_028_1	565766.102	1104173.869	94.999
1_028_2	566152.265	1104103.734	92.107
1_028_3	568106.305	1104087.489	93.576
1_028_4	568356.905	1104061.682	92.589
1_028_5	570454.757	1103895.933	92.539
1_028_6	570689.055	1104054.272	91.282
1_029_1	565557.563	1106596.228	86.887
1_029_2	566051.743	1106552.514	89.221
1_029_3	568153.824	1106563.517	93.086
1_029_4	568415.073	1106588.216	93.165
1_029_5	570283.028	1106612.877	93.080
1_029_6	570699.156	1106582.039	92.380
1_030_1	565698.795	1108978.132	81.612
1_030_2	565923.415	1109126.977	81.740
1_030_3	568024.017	1109163.342	92.255
1_030_4	568337.753	1109005.995	92.215
1_030_5	570236.692	1108997.894	88.554
1_030_6	570799.842	1109084.718	80.903
1_031_1	565906.724	1111867.106	83.947
1_031_2	566340.082	1111835.955	84.758
1_031_3	568104.169	1111625.991	93.828
1_031_4	568481.737	1111646.404	92.616
1_031_5	570259.312	1111523.587	86.468
1_031_6	570609.433	1111470.648	82.860
1_032_1	565476.821	1114263.154	86.843



1_032_2	565851.073	1114056.209	87.203
1_032_3	568214.843	1114142.211	96.970
1_032_4	568463.707	1114080.803	95.623
1_032_5	570537.789	1114121.766	91.163
1_032_6	570734.702	1113953.867	89.307
1_033_1	565536.378	1116792.836	84.566
1_033_2	566005.361	1116752.913	86.505
1_033_3	568035.374	1116683.729	94.028
1_033_4	568348.831	1116687.539	94.425
1_033_5	570355.488	1116757.461	99.074
1_033_6	570555.325	1116694.869	99.559
1_034_1	565824.830	1119585.248	93.373
1_034_2	566284.172	1119464.372	92.521
1_034_3	568018.783	1119296.703	94.542
1_034_4	568269.672	1119089.749	95.336
1_034_5	570344.591	1119171.796	98.945
1_034_6	570681.042	1119111.624	99.920
1_035_1	565824.670	1121922.827	96.152
1_035_2	566058.395	1121921.070	95.932
1_035_3	568262.309	1121721.295	96.297
1_035_4	568660.788	1121632.652	95.428
1_035_5	570563.515	1121720.311	98.826
1_035_6	570716.487	1121555.277	97.635
1_036_1	565834.033	1124414.599	96.521
1_036_2	566178.842	1124416.237	94.706
1_036_3	568115.159	1124312.682	95.189
1_036_4	568367.129	1124410.315	95.408
1_036_5	570496.845	1124337.550	99.208
1_036_6	570689.089	1124162.004	98.974
1_037_1	565850.419	1127003.297	94.863
1_037_2	566250.637	1126899.003	93.549
1_037_3	567967.324	1126709.984	89.539
1_037_4	568340.231	1126687.595	93.230
1_037_5	570278.688	1126743.944	97.692
1_037_6	570412.260	1126933.966	97.631
1_038_1	565542.803	1129605.824	81.999
1_038_2	566291.992	1129582.582	87.282
1_038_3	568485.311	1129452.353	93.775
1_038_4	568744.704	1129342.994	94.100
1_038_5	570424.528	1129389.687	98.056
1_038_6	570617.067	1129178.842	98.066
1_039_1	565711.571	1132021.325	90.045
1_039_2	566182.560	1132074.361	89.671
1_039_3	568029.841	1131885.654	93.314



1_039_4	568403.220	1131963.865	94.390
1_039_5	570457.718	1131737.509	97.266
1_039_6	570748.921	1131752.855	97.130
1_040_1	565735.703	1134712.059	75.428
1_040_2	566011.767	1134605.681	71.924
1_040_3	568195.563	1134464.331	79.427
1_040_4	568407.115	1134352.109	81.766
1_040_5	570101.571	1134383.063	82.846
1_040_6	570592.958	1134389.699	85.679
1_041_1	565905.192	1137105.029	49.143
1_041_2	566124.716	1137216.407	57.229
1_041_3	568067.616	1137039.929	67.199
1_041_4	568447.179	1137061.643	67.933
1_041_5	570257.383	1136947.155	61.622
1_041_6	570777.568	1136883.346	66.873
1_042_1	565354.188	1139629.355	38.406
1_042_2	565590.327	1139365.115	39.003
1_042_3	568177.117	1139711.900	41.752
1_042_4	568510.661	1139667.724	50.471
1_042_5	570459.150	1139289.493	38.656
1_042_6	570686.424	1139245.236	38.725
1_043_1	565539.570	1142170.321	61.960
1_043_2	566038.475	1142255.390	56.098
1_043_3	568064.969	1142147.776	75.856
1_043_4	568311.344	1142079.154	73.860
1_043_5	570422.714	1142012.586	69.760
1_043_6	570600.586	1141949.391	70.367
1_044_1	565640.194	1144732.396	71.914
1_044_2	566093.215	1144619.518	74.184
1_044_3	568193.937	1144548.439	75.651
1_044_4	568367.301	1144503.411	75.039
1_044_5	570260.411	1144466.966	76.072
1_044_6	570457.373	1144516.356	78.659
1_045_1	565692.351	1147400.781	76.103
1_045_2	566169.799	1147501.924	74.662
1_045_3	568068.017	1147302.490	78.148
1_045_4	568381.402	1147201.312	78.126
1_045_5	570311.755	1147168.511	78.588
1_045_6	570554.356	1147037.373	78.673
1_046_1	565772.405	1149902.144	75.747
1_046_2	566180.442	1149866.482	75.669
1_046_3	568162.271	1149660.102	69.859
1_046_4	568414.309	1149613.415	66.082
1_046_5	570377.200	1149840.865	71.708



1_046_6	570631.011	1149765.584	69.502
1_047_1	565732.428	1152495.375	61.522
1_047_2	566071.357	1152420.811	57.440
1_047_3	567939.726	1152166.704	74.657
1_047_4	568734.471	1152251.306	74.982
1_047_5	570305.866	1152076.445	78.604
1_047_6	570421.451	1152329.942	76.594
1_048_1	565805.422	1155038.942	77.523
1_048_2	566058.246	1154920.338	78.083
1_048_3	568026.666	1154845.214	79.863
1_048_4	568350.474	1154888.075	79.628
1_048_5	570276.751	1154661.127	90.213
1_048_6	570592.622	1154710.988	91.916
1_049_1	565819.323	1157379.633	62.131
1_049_2	566034.304	1157434.780	61.364
1_049_3	567977.038	1157201.105	76.242
1_049_4	568330.391	1157110.090	76.670
1_049_5	570300.496	1157214.308	94.201
1_049_6	570611.094	1157152.711	97.092
1_050_1	565720.008	1160041.764	77.072
1_050_2	566134.446	1159935.946	77.897
1_050_3	568048.317	1159871.711	79.382
1_050_4	568322.808	1159837.375	76.240
1_050_5	570316.208	1159799.797	80.883
1_050_6	570575.338	1159821.554	82.018
1_051_1	565722.760	1162647.648	81.573
1_051_2	566087.034	1162564.718	81.457
1_051_3	568048.365	1162293.501	81.325
1_051_4	568346.173	1162262.628	78.817
1_051_5	570409.238	1162350.371	83.072
1_051_6	570574.102	1162259.808	81.885
1_052_1	565756.566	1164959.746	83.358
1_052_2	566113.298	1165065.018	84.726
1_052_3	568107.570	1164914.564	86.329
1_052_4	568366.406	1164944.987	86.408
1_052_5	570314.171	1164867.071	96.614
1_052_6	570535.261	1164831.855	98.370
1_053_1	565666.754	1167652.075	86.858
1_053_2	566057.911	1167452.871	89.831
1_053_3	568079.505	1167528.166	97.173
1_053_4	568367.706	1167489.071	95.436
1_053_5	570222.685	1167278.365	98.269
1_053_6	570535.597	1167280.560	100.223
10_001_1	610474.701	1035999.081	37.221



10_001_2	610314.381	1035977.922	36.700
10_001_3	608174.711	1035838.615	32.133
10_001_4	607993.061	1035747.231	32.073
10_001_5	605698.030	1035786.100	28.770
10_001_6	605449.222	1035567.719	28.824
10_002_1	610407.065	1038465.716	31.169
10_002_2	610530.028	1038371.336	33.619
10_002_3	607972.937	1038381.027	29.410
10_002_4	607766.131	1038387.995	30.598
10_002_5	606192.977	1038298.694	31.337
10_002_6	605093.134	1038139.446	32.698
10_003_1	609537.544	1041027.863	35.892
10_003_2	609337.424	1040995.662	35.452
10_003_3	607252.773	1040622.047	36.073
10_003_4	607571.951	1040598.554	35.523
10_003_5	605664.383	1040988.307	34.909
10_003_6	605893.476	1040653.356	32.493
10_004_1	610393.629	1043126.210	36.952
10_004_2	609730.380	1043386.537	37.537
10_004_3	608057.993	1043417.168	37.866
10_004_4	607844.210	1043414.909	38.568
10_004_5	605497.113	1043255.166	33.849
10_004_6	605719.693	1043470.621	34.770
10_005_1	610648.786	1045882.161	38.210
10_005_2	610114.767	1045686.369	37.581
10_005_3	607651.022	1046008.219	35.432
10_005_4	607443.748	1045718.611	35.418
10_005_5	605782.554	1045928.796	38.571
10_005_6	605544.695	1045895.373	37.544
10_006_1	610498.429	1048437.817	40.339
10_006_2	610170.554	1048342.568	40.217
10_006_3	607955.932	1048318.508	40.662
10_006_4	607767.157	1048307.923	40.614
10_006_5	605662.409	1048469.127	41.409
10_006_6	605467.143	1048466.198	41.477
10_007_1	610307.575	1050880.647	41.884
10_007_2	610084.691	1050899.515	41.160
10_007_3	608090.307	1051022.275	40.139
10_007_4	607707.871	1051070.696	39.679
10_007_5	605706.457	1051002.956	41.743
10_007_6	605564.992	1050981.027	42.592
10_008_1	610088.078	1053452.743	40.785
10_008_2	609886.065	1053463.826	40.449
10_008_3	608072.323	1053618.315	37.859

10_008_4	607591.158	1053591.438	37.117
10_008_5	606171.505	1053444.906	37.531
10_008_6	606235.359	1053534.409	37.054
10_009_1	610548.639	1056091.150	41.310
10_009_2	609819.777	1055805.602	38.543
10_009_3	607874.611	1056204.756	38.141
10_009_4	607616.583	1056185.175	38.314
10_009_5	605473.561	1056055.364	41.198
10_009_6	605292.017	1056030.772	42.039
10_010_1	610323.981	1058574.968	41.845
10_010_2	609641.642	1058513.684	41.841
10_010_3	608110.193	1058568.566	41.878
10_010_4	607814.296	1058415.076	41.772
10_010_5	605850.413	1058572.576	41.603
10_010_6	606012.975	1058505.149	41.600
10_011_1	609812.316	1061048.167	41.880
10_011_2	609539.793	1061082.254	44.399
10_011_3	607883.923	1061094.125	43.396
10_011_4	607279.120	1061101.416	44.276
10_011_5	605349.045	1061237.954	42.367
10_011_6	605330.313	1061060.662	41.726
10_012_1	610465.007	1063570.124	48.993
10_012_2	610426.352	1063440.112	48.372
10_012_3	608069.732	1063638.672	48.586
10_012_4	607827.840	1063578.603	47.082
10_012_5	605768.181	1063745.208	46.796
10_012_6	605482.357	1063741.043	47.658
10_013_1	610414.285	1066211.078	53.717
10_013_2	610182.352	1066142.376	55.080
10_013_3	608067.247	1066185.335	55.065
10_013_4	607858.021	1066061.064	53.004
10_013_5	605562.023	1066332.769	53.401
10_013_6	605399.329	1066236.480	53.079
10_014_1	610159.548	1068628.836	58.162
10_014_2	610142.300	1068485.711	57.832
10_014_3	607890.100	1068907.894	57.383
10_014_4	607673.301	1068856.819	57.374
10_014_5	605671.111	1068770.104	57.580
10_014_6	605420.698	1068611.329	56.879
10_015_1	610339.079	1071134.807	60.722
10_015_2	609897.641	1071144.687	59.332
10_015_3	607449.538	1071487.119	58.960
10_015_4	607295.090	1071486.308	59.013
10_015_5	605924.402	1071379.732	59.114



10_015_6	605918.001	1071173.844	59.013
10_016_1	610392.521	1073711.010	65.493
10_016_2	610115.215	1073710.761	65.369
10_016_3	607387.517	1073755.223	57.552
10_016_4	607348.498	1073662.990	58.242
10_016_5	605833.042	1073885.901	58.868
10_016_6	605931.758	1073922.645	59.613
10_017_1	610051.288	1076168.942	65.404
10_017_2	609787.184	1076256.057	64.762
10_017_3	608053.253	1076356.407	63.213
10_017_4	607797.175	1076363.825	63.291
10_017_5	605795.402	1076411.343	62.458
10_017_6	605519.193	1076423.056	62.177
10_018_1	610401.927	1078848.556	66.443
10_018_2	610217.026	1078837.332	66.838
10_018_3	607885.269	1078708.909	68.500
10_018_4	607835.950	1078702.035	68.555
10_018_5	605861.989	1078835.262	67.646
10_018_6	605869.133	1078919.127	67.723
10_019_1	610001.350	1081159.591	67.078
10_019_2	609851.603	1081328.203	67.381
10_019_3	607944.030	1081464.601	70.776
10_019_4	607610.480	1081444.767	71.835
10_019_5	605736.934	1081477.966	71.591
10_019_6	605602.659	1081246.392	73.332
10_020_1	610315.572	1083931.730	68.989
10_020_2	610186.055	1083980.375	67.689
10_020_3	607954.955	1083862.124	72.697
10_020_4	607607.684	1083919.591	73.919
10_020_5	605865.496	1083966.264	74.800
10_020_6	605770.177	1083770.304	75.240
10_021_1	609431.944	1086479.604	70.599
10_021_2	609294.816	1086415.039	72.469
10_021_3	607943.065	1086536.359	73.241
10_021_4	607730.442	1086489.219	72.265
10_021_5	605635.141	1086434.126	73.422
10_021_6	605259.210	1086189.258	75.486
10_022_1	610134.094	1088996.311	57.131
10_022_2	610054.828	1088980.114	56.682
10_022_3	607807.737	1088858.589	61.979
10_022_4	607732.060	1089101.065	61.635
10_022_5	605465.457	1089039.331	59.401
10_022_6	605398.851	1089102.385	59.774
10_023_1	610254.888	1091453.303	46.891

10_023_2	610159.111	1091752.619	48.160
10_023_3	607690.393	1091669.508	48.048
10_023_4	607763.101	1091757.649	48.022
10_023_5	605758.409	1091620.882	56.283
10_023_6	606029.634	1091625.635	56.054
10_024_1	609519.919	1094048.098	35.918
10_024_2	609271.581	1094249.488	37.847
10_024_3	607793.177	1094117.688	42.936
10_024_4	607568.298	1094081.359	45.543
10_024_5	605882.377	1094035.983	37.665
10_024_6	605760.846	1094018.783	36.681
10_025_1	610238.660	1096678.878	44.718
10_025_2	610060.941	1096667.323	45.009
10_025_3	607940.513	1096607.455	45.490
10_025_4	607669.701	1096419.381	39.796
10_025_5	605544.122	1096862.183	43.831
10_025_6	605915.059	1096597.044	43.630
10_026_1	610344.547	1099123.231	44.381
10_026_2	610146.657	1099223.429	44.478
10_026_3	608339.029	1099198.298	38.764
10_026_4	608190.298	1099112.417	38.035
10_026_5	605625.532	1099226.785	45.503
10_026_6	605431.338	1099167.838	45.989
10_027_1	610258.898	1101790.545	42.969
10_027_2	609976.737	1101803.476	42.288
10_027_3	607882.640	1101548.301	35.792
10_027_4	607712.998	1101792.242	35.476
10_027_5	605016.923	1101663.556	46.603
10_027_6	605020.041	1101766.897	46.590
10_028_1	610370.974	1104261.446	54.617
10_028_2	610257.793	1104256.021	54.415
10_028_3	608029.336	1104281.571	36.382
10_028_4	607812.734	1104274.047	36.005
10_028_5	605898.765	1104410.504	45.135
10_028_6	605092.827	1104298.083	45.455
10_029_1	610362.003	1106742.550	50.276
10_029_2	610269.774	1106842.230	49.175
10_029_3	608583.891	1106514.940	39.249
10_029_4	608837.166	1106965.445	40.100
10_029_5	605690.604	1106761.498	38.652
10_029_6	605529.108	1106734.440	37.699
10_030_1	609518.411	1109388.264	40.222
10_030_2	609537.264	1109265.022	40.296
10_030_3	607921.808	1109429.977	39.906



10_030_4	607828.306	1109286.296	40.038
10_030_5	605621.309	1109371.791	40.113
10_030_6	605683.205	1109283.232	39.635
10_031_1	610138.838	1111973.071	41.672
10_031_2	610068.037	1111908.564	41.017
10_031_3	607819.566	1111789.821	40.525
10_031_4	607443.145	1112149.444	40.930
10_031_5	605646.413	1111966.133	40.903
10_031_6	605862.497	1112018.639	41.333
10_032_1	610220.409	1114390.000	41.666
10_032_2	609821.921	1114364.578	41.702
10_032_3	607712.238	1114213.331	42.136
10_032_4	607569.824	1114238.012	41.367
10_032_5	605599.871	1114528.101	41.738
10_032_6	605692.955	1114369.836	41.466
10_033_1	610475.980	1116970.121	42.640
10_033_2	610327.828	1116970.734	42.218
10_033_3	607954.652	1116990.969	41.414
10_033_4	607813.114	1116881.580	41.334
10_033_5	605692.517	1116856.642	50.033
10_033_6	605490.974	1116700.942	49.383
10_034_1	609705.022	1119508.462	42.276
10_034_2	609464.093	1119628.943	43.616
10_034_3	608033.099	1119529.521	50.225
10_034_4	607760.930	1119515.152	50.993
10_034_5	605735.077	1119459.852	59.259
10_034_6	605473.282	1119304.537	58.112
10_035_1	609694.402	1122044.279	47.235
10_035_2	609632.761	1122077.255	49.081
10_035_3	608061.135	1121874.551	63.302
10_035_4	607780.977	1121740.154	63.017
10_035_5	605843.363	1121997.605	61.060
10_035_6	605373.213	1121919.016	59.786
10_036_1	610483.992	1124502.667	52.803
10_036_2	610012.805	1124493.453	57.001
10_036_3	607950.706	1124560.674	64.345
10_036_4	607799.364	1124568.058	63.888
10_036_5	605609.367	1124582.378	70.950
10_036_6	605492.977	1124491.067	70.599
10_037_1	610180.380	1127130.651	53.811
10_037_2	610079.834	1127108.370	54.710
10_037_3	607775.544	1127137.902	65.290
10_037_4	607665.594	1127243.453	66.002
10_037_5	605792.925	1127137.052	77.449



10_037_6	605352.950	1127076.677	79.040
10_038_1	609933.579	1129673.629	70.519
10_038_2	609834.779	1129805.977	72.473
10_038_3	607995.193	1129700.469	83.094
10_038_4	607854.676	1129655.540	82.784
10_038_5	605757.549	1129745.117	81.194
10_038_6	605899.209	1129643.061	81.071
10_039_2	610002.722	1132168.258	74.489
10_039_3	607950.127	1132079.781	86.433
10_039_4	607741.318	1132292.196	85.458
10_039_5	605757.326	1132349.683	81.566
10_039_6	605452.106	1132277.686	81.349
10_040_1	610390.657	1134752.357	72.645
10_040_2	610252.309	1134800.219	68.311
10_040_3	608088.282	1134680.959	88.698
10_040_4	608109.351	1134448.765	87.585
10_040_5	605678.956	1134827.131	85.097
10_040_6	605744.176	1134826.376	85.309
10_041_1	610573.335	1137216.170	87.945
10_041_2	609996.167	1137438.954	89.043
10_041_3	608326.724	1137207.626	86.329
10_041_4	608174.443	1137372.976	86.888
10_041_5	605637.805	1136973.234	84.080
10_041_6	605455.117	1137040.628	83.019
10_042_1	610368.843	1139862.352	92.017
10_042_2	610087.165	1139840.787	93.666
10_042_3	607909.790	1139789.980	90.833
10_042_4	607793.072	1139729.960	91.093
10_042_5	605575.392	1139791.339	86.496
10_042_6	605437.589	1139682.991	86.049
10_043_1	610378.403	1142369.925	87.272
10_043_2	609903.312	1142310.682	88.302
10_043_3	607957.689	1142394.806	94.296
10_043_4	607577.361	1142270.235	88.255
10_043_5	605637.682	1142323.718	89.033
10_043_6	605565.401	1142279.382	89.219
10_044_1	610052.955	1144757.834	99.419
10_044_2	609982.888	1144822.701	98.438
10_044_3	608021.177	1144985.687	89.286
10_044_4	607686.735	1144827.047	90.550
10_044_5	605754.267	1144887.944	128.003
10_044_6	605582.020	1144924.406	130.404
10_045_1	610283.433	1147349.594	99.771
10_045_2	610070.788	1147353.396	99.126



10_045_3	608069.292	1147391.400	97.572
10_045_4	607715.190	1147438.642	96.889
10_045_5	605698.090	1147142.025	99.227
10_045_6	605265.006	1147486.219	98.623
10_046_1	610291.843	1149877.105	136.305
10_046_2	610163.041	1149979.330	138.062
10_046_3	608107.885	1149816.751	96.315
10_046_4	607903.161	1149862.777	94.590
10_046_5	605670.090	1149687.348	85.536
10_046_6	605433.409	1149798.073	83.796
10_047_1	610285.398	1152394.820	99.626
10_047_2	610058.308	1152403.290	99.515
10_047_3	608324.126	1152408.392	90.594
10_047_4	607742.613	1152259.428	86.662
10_047_5	605631.525	1152482.919	89.622
10_047_6	605473.253	1152499.977	89.944
10_048_1	610508.347	1154866.956	90.268
10_048_2	610137.861	1154988.483	86.255
10_048_3	607310.244	1154627.804	88.972
10_048_4	607217.191	1154618.678	90.329
10_048_5	605591.475	1155084.974	104.069
10_048_6	605493.815	1154864.954	103.326
10_049_1	610338.092	1157516.252	82.983
10_049_2	610122.462	1157465.318	86.789
10_049_3	607988.310	1157562.085	101.940
10_049_4	607850.978	1157619.555	101.731
10_049_5	605821.823	1157531.701	101.785
10_049_6	605430.603	1157589.966	102.624
10_050_1	610357.643	1160014.547	94.973
10_050_2	610167.254	1159923.147	96.608
10_050_3	607939.283	1160136.760	103.448
10_050_4	607811.738	1160010.909	104.184
10_050_5	605610.472	1160104.271	102.809
10_050_6	605613.588	1160185.842	102.607
10_051_1	610247.398	1162710.582	99.455
10_051_2	610093.991	1162729.978	98.989
10_051_3	607885.012	1162712.253	98.656
10_051_4	607647.248	1162688.274	99.049
10_051_5	605669.495	1162598.685	92.923
10_051_6	605490.661	1162479.059	91.301
10_052_1	610531.336	1165308.291	106.945
10_052_2	610272.479	1165287.963	105.981
10_052_3	608106.246	1165326.799	101.191
10_052_4	607932.053	1165275.038	99.878



10_052_5	605799.404	1165330.722	100.994
10_052_6	605592.832	1165197.555	101.001
10_053_1	610425.526	1167737.893	117.082
10_053_2	610261.076	1167736.075	116.592
10_053_3	608120.517	1167613.873	101.397
10_053_4	608117.487	1167537.024	100.625
10_053_5	605758.147	1167711.963	103.144
10_053_6	605530.445	1167722.271	102.912
11_001_1	609851.332	1035817.025	36.339
11_001_2	610328.229	1035822.766	35.983
11_001_3	612204.388	1035653.040	36.757
11_001_4	612423.928	1035654.746	36.984
11_001_5	614652.880	1035602.781	39.774
11_001_6	614810.389	1035567.961	39.897
11_002_1	610516.522	1038241.325	34.609
11_002_2	610607.168	1038317.183	34.618
11_002_3	612229.709	1038191.775	39.529
11_002_4	612406.708	1038181.414	39.856
11_002_5	614789.057	1037897.478	41.040
11_002_6	614629.011	1038042.770	41.080
11_003_1	609892.392	1041120.716	33.283
11_003_2	610526.885	1041011.815	33.313
11_003_3	612208.261	1040665.892	37.721
11_003_4	612633.701	1040570.797	38.469
11_003_5	614615.978	1040516.552	39.149
11_003_6	614698.509	1040744.573	41.281
11_004_1	609759.858	1043397.732	37.825
11_004_2	610237.004	1043269.100	37.679
11_004_3	612276.431	1043282.277	33.161
11_004_4	612614.906	1043419.523	34.070
11_004_5	614769.832	1043057.151	39.248
11_004_6	614583.625	1043092.690	38.410
11_005_1	610093.930	1045965.863	38.360
11_005_2	610219.340	1046020.468	38.018
11_005_3	612752.423	1045720.994	35.481
11_005_4	612851.238	1045688.070	34.698
11_005_5	614824.420	1045614.451	38.813
11_005_6	614644.525	1045679.450	38.628
11_006_1	609949.613	1048488.923	40.775
11_006_2	610065.288	1048478.384	40.714
11_006_3	612394.071	1048229.665	40.326
11_006_4	612570.528	1048211.196	40.100
11_006_5	614721.676	1048201.731	37.847
11_006_6	614395.469	1048308.524	39.171

11_007_1	610020.929	1050878.425	40.888
11_007_2	610199.722	1050894.456	41.443
11_007_3	612537.229	1050712.196	41.532
11_007_4	612512.075	1050795.038	40.496
11_007_5	614821.172	1050898.333	42.124
11_007_6	614833.038	1050710.969	41.739
11_008_1	609896.519	1053480.463	40.576
11_008_2	610187.869	1053360.135	40.977
11_008_3	612044.067	1053413.488	38.386
11_008_4	612370.175	1053212.098	38.546
11_008_5	613739.525	1053574.180	39.592
11_008_6	613806.673	1053421.194	39.214
11_009_1	610521.284	1056109.720	41.082
11_009_2	610293.202	1056208.172	41.392
11_009_3	612374.925	1055974.221	42.497
11_009_4	612599.134	1056035.142	42.635
11_009_5	614456.093	1055902.456	39.931
11_009_6	614132.140	1055851.736	39.649
11_010_1	609631.895	1058568.583	41.821
11_010_2	610257.978	1058497.504	42.652
11_010_3	611947.010	1058424.137	39.540
11_010_4	612252.542	1058285.275	39.628
11_010_5	614446.627	1058388.930	43.969
11_010_6	614497.167	1058360.631	43.612
11_011_1	610013.606	1061373.779	41.735
11_011_2	609737.014	1061090.030	41.974
11_011_3	612257.442	1060963.966	44.768
11_011_4	612504.293	1061046.706	45.020
11_011_5	614337.860	1060563.095	43.391
11_011_6	614255.938	1061019.839	45.531
11_012_1	610366.302	1063635.127	48.815
11_012_2	610457.915	1063676.983	49.044
11_012_3	612318.182	1063675.751	50.080
11_012_4	612593.372	1063406.619	49.181
11_012_5	614604.001	1063461.666	51.516
11_012_6	614782.364	1063454.904	52.024
11_013_1	609966.035	1066295.093	55.388
11_013_2	610175.453	1066142.241	55.180
11_013_3	612287.925	1066064.314	55.933
11_013_4	612482.938	1066153.536	55.497
11_013_5	614714.697	1065872.887	56.599
11_013_6	614401.838	1065939.937	57.029
11_014_1	609974.286	1068634.371	58.078
11_014_2	610156.824	1068621.138	57.945

11_014_3	612420.944	1068655.943	58.971
11_014_4	612520.681	1068630.231	57.953
11_014_5	614759.300	1068732.261	58.053
11_014_6	615064.794	1068753.026	57.794
11_015_1	610293.128	1071076.185	59.970
11_015_2	610349.596	1071192.803	60.120
11_015_3	612297.537	1071159.544	60.543
11_015_4	612405.813	1071181.327	60.791
11_015_5	614555.660	1071210.065	60.631
11_015_6	615016.428	1071050.814	60.750
11_016_1	610077.786	1073664.158	65.437
11_016_2	610177.410	1073695.758	65.636
11_016_3	612616.281	1073631.595	65.582
11_016_4	612768.164	1073712.654	65.561
11_016_5	614549.176	1073579.124	63.388
11_016_6	614795.352	1073744.207	63.714
11_017_1	609761.018	1076243.190	64.327
11_017_2	610003.103	1076201.339	65.014
11_017_3	612355.403	1076250.529	65.221
11_017_4	612475.000	1076199.280	65.160
11_017_5	614414.598	1076272.830	65.516
11_017_6	614529.905	1076390.790	65.777
11_018_1	610103.833	1078766.147	68.682
11_018_2	610414.392	1078773.772	65.520
11_018_3	612151.256	1078733.130	67.071
11_018_4	612395.416	1078729.068	67.106
11_018_5	615230.876	1078802.305	68.836
11_018_6	615213.831	1078805.306	67.913
11_019_1	609861.400	1081326.889	67.237
11_019_2	609955.839	1081163.817	69.921
11_019_3	612186.486	1081316.447	74.340
11_019_4	612189.635	1081382.535	74.427
11_019_5	614606.211	1081111.357	72.306
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11_020_2	610022.316	1083889.614	67.389
11_020_3	612239.925	1083786.442	78.323
11_020_4	612107.983	1083893.355	79.165
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11_020_6	614503.257	1083770.236	66.337
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11_021_3	612948.802	1086410.991	56.511
11_021_4	613013.671	1086371.431	56.388

11_021_5	614582.229	1086309.894	53.168
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11_022_3	612801.263	1088852.198	52.303
11_022_4	612757.563	1088978.681	52.278
11_022_5	614627.240	1088819.094	46.692
11_022_6	614799.693	1088808.945	46.421
11_023_1	609889.773	1091394.175	47.187
11_023_2	610452.397	1091618.795	47.034
11_023_3	612094.154	1091249.781	47.414
11_023_4	612451.161	1091321.255	46.085
11_023_5	614849.378	1091382.534	42.562
11_023_6	614861.322	1091205.216	42.776
11_024_1	609918.630	1093842.648	37.721
11_024_2	610398.598	1093890.798	37.376
11_024_3	613296.417	1093865.705	42.470
11_024_4	613257.099	1093759.338	41.797
11_024_5	614475.918	1093896.674	44.457
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11_025_1	609807.142	1096659.865	45.346
11_025_2	610148.098	1096677.108	44.919
11_025_3	612145.419	1096494.745	41.385
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11_025_5	614957.431	1096459.993	46.189
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11_026_1	609782.490	1099149.601	44.221
11_026_2	610231.111	1099002.731	44.309
11_026_3	612233.163	1099165.103	45.263
11_026_4	612469.989	1099170.196	45.337
11_026_5	614791.107	1098988.288	52.042
11_026_6	614740.896	1099029.297	52.169
11_027_1	609978.987	1101802.823	42.260
11_027_2	610029.944	1101592.437	42.958
11_027_3	612322.614	1101475.342	50.409
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11_027_5	614495.184	1101536.094	52.072
11_027_6	614421.429	1101432.822	51.301
11_028_1	609601.278	1104141.719	47.373
11_028_2	610296.716	1104250.864	54.443
11_028_3	612380.032	1103936.783	53.405
11_028_4	612505.418	1104123.533	54.037
11_028_5	614551.422	1104016.904	58.203
11_028_6	614309.656	1104094.417	58.299



11_029_1	610091.209	1106639.093	50.620
11_029_2	610272.258	1106705.684	50.228
11_029_3	612070.925	1106331.099	50.916
11_029_4	611908.533	1106373.425	50.996
11_029_5	614555.877	1106088.386	51.993
11_029_6	614700.730	1106120.114	52.108
11_030_1	609510.944	1109348.995	40.091
11_030_2	609583.507	1109307.421	40.028
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11_030_4	612445.525	1108981.789	44.741
11_030_5	614450.691	1109144.917	46.900
11_030_6	614549.949	1109145.813	46.625
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11_031_3	612234.541	1111753.140	46.278
11_031_4	612649.660	1111712.562	49.390
11_031_5	614873.749	1111286.574	52.918
11_031_6	614878.735	1111460.465	53.048
11_032_1	609940.205	1114314.505	42.587
11_032_2	610073.253	1114314.555	42.624
11_032_3	612233.320	1114210.398	45.635
11_032_4	612468.535	1114204.367	45.112
11_032_5	614596.841	1114134.068	57.406
11_032_6	614580.185	1114288.823	56.976
11_033_1	609919.217	1116858.680	42.666
11_033_2	610225.535	1116841.020	43.034
11_033_3	612244.218	1116694.269	42.402
11_033_4	612474.437	1116755.817	42.565
11_033_5	614728.835	1116802.705	46.524
11_033_6	614800.313	1116843.865	47.271
11_034_1	609741.653	1119559.833	42.489
11_034_2	609822.669	1119655.706	42.158
11_034_3	612250.353	1119160.341	48.651
11_034_4	612459.482	1119170.550	48.945
11_034_5	614675.867	1119297.581	60.326
11_034_6	614849.341	1119269.976	59.892
11_035_1	611152.627	1121713.870	44.350
11_035_2	611333.574	1121682.947	45.776
11_035_3	612373.914	1121661.081	53.685
11_035_4	612574.022	1121690.430	54.241
11_035_5	614660.151	1121870.280	55.996
11_035_6	614827.127	1121862.946	55.977
11_036_1	609830.560	1124706.984	58.772
11_036_2	609789.290	1124446.136	58.735



11_036_3	612219.951	1124526.818	51.485
11_036_4	612676.675	1124611.048	55.443
11_036_5	614603.849	1124234.838	57.819
11_036_6	614768.070	1124251.233	58.114
11_037_1	609681.944	1127195.057	58.580
11_037_2	609699.445	1127213.170	58.789
11_037_3	612383.165	1127013.731	61.401
11_037_4	612038.190	1127029.762	59.367
11_037_5	614579.864	1126602.214	70.604
11_037_6	614330.933	1126615.360	70.538
11_038_1	609898.752	1129632.656	71.379
11_038_2	609865.894	1129606.985	71.605
11_038_3	612298.681	1129350.378	55.902
11_038_4	612289.692	1129411.970	56.625
11_038_5	614643.423	1129208.822	65.289
11_038_6	614502.335	1129377.775	63.688
11_039_1	610022.198	1132079.824	74.136
11_039_2	610088.819	1131950.913	72.755
11_039_3	612218.512	1131905.389	66.867
11_039_4	612449.033	1132037.357	67.657
11_039_5	614687.124	1131885.164	67.295
11_039_6	614616.199	1132010.055	66.666
11_040_1	609907.302	1134559.213	67.293
11_040_2	609941.662	1134634.843	65.945
11_040_3	612354.855	1134621.439	77.473
11_040_4	612671.007	1134425.452	75.150
11_040_5	614569.979	1134341.289	70.176
11_040_6	614589.124	1134504.992	71.076
11_041_1	610534.448	1137189.486	88.139
11_041_2	610704.358	1137246.046	82.236
11_041_3	612294.371	1137150.027	75.031
11_041_4	612397.429	1137218.537	75.736
11_041_5	614655.636	1136964.246	75.552
11_041_6	614765.655	1137018.344	76.682
11_042_1	609889.264	1139567.208	90.086
11_042_2	610022.350	1139558.119	88.237
11_042_3	612245.906	1139527.400	87.031
11_042_4	612442.647	1139501.679	85.724
11_042_5	614535.170	1139505.290	78.305
11_042_6	614760.874	1139538.280	78.948
11_043_1	609692.557	1142078.059	89.441
11_043_2	610272.684	1142129.701	86.752
11_043_3	612335.085	1142062.216	89.426
11_043_4	612561.683	1142131.409	90.346



11_043_5	614576.402	1142035.128	90.222
11_043_6	614716.278	1142194.829	90.449
11_044_1	609672.527	1144589.602	95.712
11_044_2	609665.255	1144429.988	95.503
11_044_3	612194.765	1144579.232	99.472
11_044_4	612432.402	1144608.040	99.333
11_044_5	614545.990	1144528.511	98.108
11_044_6	614491.039	1144639.710	98.074
11_045_1	609911.383	1147182.057	99.253
11_045_2	610255.197	1147018.110	100.591
11_045_3	611907.065	1147169.158	104.351
11_045_4	612239.571	1147280.343	138.590
11_045_5	614603.828	1147226.693	137.345
11_045_6	614601.182	1147361.585	137.798
11_046_1	609852.960	1149674.175	129.473
11_046_2	609917.806	1149727.960	127.834
11_046_3	612207.930	1149593.320	135.826
11_046_4	612230.909	1149880.143	136.587
11_046_5	614603.931	1149730.507	135.518
11_046_6	614611.970	1149884.069	134.379
11_047_1	609813.724	1152251.489	98.950
11_047_2	609921.915	1152285.232	99.221
11_047_3	612114.015	1152294.193	103.392
11_047_4	612322.145	1152256.250	102.590
11_047_5	614436.001	1152462.265	103.493
11_047_6	614502.069	1152554.269	104.027
11_048_1	610126.119	1154992.332	85.732
11_048_2	610347.063	1154934.652	88.711
11_048_3	611512.156	1154746.740	96.163
11_048_4	612677.079	1154728.508	99.952
11_048_5	614655.915	1154880.871	106.203
11_048_6	614903.381	1154933.169	107.874
11_049_1	609844.951	1157472.270	90.596
11_049_2	610067.812	1157494.432	87.650
11_049_3	612142.334	1157280.561	96.134
11_049_4	612416.052	1157245.526	96.819
11_049_5	614514.830	1157337.269	102.907
11_049_6	614622.268	1157395.071	104.031
11_050_1	609892.274	1159865.255	99.318
11_050_2	610110.758	1160006.854	97.527
11_050_3	612331.608	1159850.422	97.943
11_050_4	612495.854	1159918.566	98.712
11_050_5	614547.559	1159897.538	102.246
11_050_6	614506.209	1160042.880	104.854



11_051_1	610073.424	1162705.974	98.829
11_051_2	610152.695	1162768.536	99.433
11_051_3	612286.210	1162447.216	103.976
11_051_4	612505.587	1162478.230	105.133
11_051_5	614683.835	1162366.375	111.679
11_051_6	614766.706	1162432.062	112.789
11_052_1	609902.151	1164952.932	103.166
11_052_2	610234.151	1165110.428	105.086
11_052_3	612233.272	1164828.964	107.637
11_052_4	612366.498	1165223.160	106.655
11_052_5	614360.322	1164760.222	113.582
11_052_6	614671.556	1164841.849	114.914
11_053_1	609952.670	1167483.281	114.657
11_053_2	610087.282	1167481.459	115.694
11_053_3	612216.706	1167341.875	111.977
11_053_4	612326.530	1167465.086	111.990
11_053_5	614774.424	1167315.076	117.930
11_053_6	614854.598	1167400.350	117.848
12_001_1	619199.982	1035701.863	39.464
12_001_2	618880.159	1035716.618	38.410
12_001_3	616844.862	1035643.944	38.695
12_001_4	616404.311	1035649.943	39.031
12_001_5	614484.285	1035838.669	40.234
12_001_6	614336.062	1035627.009	38.923
12_002_1	619222.818	1038205.456	40.162
12_002_2	618817.989	1038174.286	40.022
12_002_3	616647.116	1038296.782	37.083
12_002_4	616515.044	1038299.700	36.978
12_002_5	614294.617	1038237.999	41.157
12_002_6	614191.292	1038226.802	40.891
12_003_1	619081.914	1040748.945	41.677
12_003_2	618939.523	1040659.425	41.386
12_003_3	616672.625	1040761.140	39.843
12_003_4	616512.093	1040714.789	38.261
12_003_5	614313.585	1040744.160	40.151
12_003_6	613997.538	1040751.382	40.213
12_004_1	619015.948	1043297.750	43.705
12_004_2	619107.987	1043078.645	43.240
12_004_3	616958.783	1043324.146	43.375
12_004_4	616501.871	1043410.668	43.649
12_004_5	614361.871	1043339.618	38.089
12_004_6	614233.653	1043263.198	37.924
12_005_1	619118.518	1046151.453	33.104
12_005_2	618845.148	1045981.237	38.691



12_005_3	616817.558	1045865.830	39.577
12_005_4	616361.484	1046033.276	33.784
12_005_5	614838.890	1045803.365	38.619
12_005_6	614304.494	1045474.228	38.242
12_006_1	619159.821	1048575.947	40.156
12_006_2	618925.025	1048522.504	40.552
12_006_3	616399.420	1048522.732	38.037
12_006_4	616287.408	1048453.827	38.983
12_006_5	615046.719	1048543.654	38.641
12_006_6	615025.143	1048244.584	38.775
12_007_1	619189.121	1051063.055	34.969
12_007_2	619067.958	1051033.821	35.421
12_007_3	616978.991	1050915.618	35.768
12_007_4	616453.846	1050711.633	40.269
12_007_5	614465.600	1051120.475	42.086
12_007_6	614228.408	1051066.931	41.178
12_008_1	619215.167	1053576.377	39.985
12_008_2	618953.157	1053554.343	39.333
12_008_3	616761.446	1053517.615	41.103
12_008_4	616628.970	1053449.820	41.543
12_008_5	614455.460	1053422.551	39.863
12_008_6	614548.695	1053397.410	39.678
12_009_1	619028.835	1056157.591	42.066
12_009_2	618812.929	1056075.179	41.761
12_009_3	616453.427	1056119.667	41.389
12_009_4	616338.583	1056117.719	40.603
12_009_5	614462.810	1055928.730	39.715
12_009_6	614229.330	1055934.800	39.388
12_010_1	619090.951	1058586.889	45.186
12_010_2	618793.083	1058610.325	45.409
12_010_3	616889.912	1058639.574	44.490
12_010_4	616448.926	1058589.341	43.770
12_010_5	614445.094	1058434.662	43.906
12_010_6	614356.874	1058510.190	43.678
12_011_1	619309.885	1061194.034	47.767
12_011_2	619274.831	1061240.140	47.595
12_011_3	616734.242	1060953.568	44.965
12_011_4	616699.862	1061006.594	44.782
12_011_5	614279.027	1061121.557	46.143
12_011_6	614160.312	1061133.736	45.308
12_012_1	619286.606	1063566.578	50.174
12_012_2	619009.948	1063354.590	49.481
12_012_3	616650.040	1063649.523	52.217
12_012_4	616542.751	1063389.851	50.734



12_012_5	614523.436	1063701.153	53.006
12_012_6	614342.588	1063716.737	52.879
12_013_1	619139.746	1066298.326	57.190
12_013_2	619039.200	1066206.504	56.331
12_013_3	616889.359	1066235.265	53.472
12_013_4	616538.477	1066090.644	52.764
12_013_5	613928.902	1066217.316	57.705
12_013_6	614037.555	1066411.106	57.887
12_014_1	619051.640	1068796.935	61.372
12_014_2	618892.109	1068868.335	60.341
12_014_3	616840.906	1068544.152	55.936
12_014_4	616720.334	1068705.984	56.078
12_014_5	614381.901	1068548.210	56.196
12_014_6	614225.512	1068663.841	57.297
12_015_1	619291.152	1071206.244	63.466
12_015_2	618751.431	1071272.146	63.382
12_015_3	616908.263	1071376.697	63.657
12_015_4	616603.545	1071235.709	63.261
12_015_5	614281.159	1071390.238	61.261
12_015_6	614556.503	1071209.635	60.641
12_016_1	619214.689	1073873.164	64.961
12_016_2	618980.786	1073660.935	64.875
12_016_3	616887.584	1073830.143	62.555
12_016_4	616518.697	1073900.071	61.009
12_016_5	614332.581	1073873.295	63.173
12_016_6	614290.665	1074010.104	64.204
12_017_1	619246.893	1076216.670	69.698
12_017_2	619249.845	1076273.645	70.675
12_017_3	616759.993	1076185.068	65.068
12_017_4	616560.860	1076274.076	65.165
12_017_5	614353.758	1076343.185	66.509
12_017_6	614159.458	1076090.857	63.483
12_018_1	619262.070	1078709.918	73.893
12_018_2	619256.997	1078724.684	73.330
12_018_3	616883.250	1078806.487	64.714
12_018_4	616801.343	1078861.330	65.064
12_018_5	614620.346	1078949.979	68.238
12_018_6	614552.292	1079014.121	67.538
12_019_1	619281.480	1081300.891	69.116
12_019_2	619079.282	1081325.094	69.370
12_019_3	616535.137	1081177.939	73.299
12_019_4	616490.865	1081208.132	70.278
12_019_5	614391.655	1081110.884	71.610
12_019_6	614379.287	1081144.245	72.257



12_020_1	619283.867	1083947.075	59.584
12_020_2	618709.862	1084122.374	55.779
12_020_3	616776.219	1084021.873	58.069
12_020_4	616546.936	1083884.934	59.645
12_020_5	614456.292	1084079.017	62.636
12_020_6	614282.259	1084031.145	65.078
12_021_1	619037.280	1086408.677	54.435
12_021_2	618607.121	1086408.800	52.608
12_021_3	616898.608	1086492.556	49.598
12_021_4	616776.692	1086607.373	49.816
12_021_5	614356.486	1086470.662	52.886
12_021_6	614360.293	1086605.425	52.012
12_022_1	619176.785	1089087.671	50.308
12_022_2	619011.760	1089089.094	48.979
12_022_3	617109.096	1088904.755	45.198
12_022_4	617056.657	1089103.355	45.684
12_022_5	614424.811	1088974.921	46.733
12_022_6	614255.807	1088925.986	47.068
12_023_1	619236.661	1091663.731	49.884
12_023_2	619131.989	1091691.865	49.526
12_023_3	616855.378	1091570.264	43.972
12_023_4	616728.260	1091492.270	43.951
12_023_5	614289.146	1091560.493	42.561
12_023_6	614365.539	1091692.158	42.134
12_024_1	619367.357	1094082.302	47.890
12_024_2	619002.714	1094100.114	47.090
12_024_3	616880.520	1093896.979	43.621
12_024_4	616693.520	1093960.272	43.575
12_024_5	614194.591	1094105.164	44.200
12_024_6	614127.313	1093985.682	44.555
12_025_1	618749.368	1096343.267	47.387
12_025_2	618751.551	1096379.636	46.916
12_025_3	616861.350	1096617.604	46.783
12_025_4	616791.827	1096328.530	45.993
12_025_5	614505.229	1096727.831	46.089
12_025_6	614701.287	1096550.248	46.324
12_026_1	619184.681	1099181.964	53.679
12_026_2	618987.909	1099178.255	52.818
12_026_3	616875.509	1099151.819	52.167
12_026_4	616500.881	1099135.349	53.187
12_026_5	614612.183	1099225.036	51.494
12_026_6	614604.330	1099157.672	51.508
12_027_1	619249.062	1101736.402	55.495
12_027_2	618976.579	1101900.591	54.775



12_027_3	617232.201	1101673.670	57.921
12_027_4	617034.547	1101870.563	57.678
12_027_5	614530.265	1101656.119	51.566
12_027_6	614545.091	1101746.407	52.532
12_028_1	618583.874	1104490.692	61.833
12_028_2	617935.528	1104385.307	60.330
12_028_3	616703.201	1104323.437	56.767
12_028_4	616475.574	1104284.535	56.677
12_028_5	614353.437	1104313.944	58.579
12_028_6	614455.493	1104160.955	58.593
12_029_1	619075.490	1106784.187	55.902
12_029_2	619020.080	1106846.520	55.398
12_029_3	617085.134	1106755.682	56.929
12_029_4	617108.740	1106391.190	59.744
12_029_5	613933.696	1106960.176	49.689
12_029_6	614687.710	1106768.741	48.609
12_030_1	619275.976	1109141.599	59.460
12_030_2	618570.107	1109395.508	59.820
12_030_3	617237.041	1109158.831	48.793
12_030_4	617008.609	1109477.093	47.315
12_030_5	614122.480	1109294.063	47.050
12_030_6	614810.103	1109381.352	47.864
12_031_1	619235.044	1112024.001	62.235
12_031_2	618582.956	1111928.336	59.391
12_031_3	616987.347	1111950.205	51.567
12_031_4	616609.259	1111924.790	50.811
12_031_5	614226.187	1112120.751	54.449
12_031_6	614203.314	1111795.368	55.052
12_032_1	619230.724	1114368.734	67.401
12_032_2	619157.542	1114427.762	65.547
12_032_3	616669.387	1114402.253	55.352
12_032_4	616507.264	1114334.097	55.404
12_032_5	614366.247	1114398.676	58.246
12_032_6	614171.509	1114416.700	56.941
12_033_1	619229.715	1116632.429	68.236
12_033_2	618594.620	1116929.608	66.081
12_033_3	616648.297	1117028.062	63.251
12_033_4	616453.099	1116771.655	64.990
12_033_5	614588.302	1117027.234	43.222
12_033_6	614458.802	1116895.452	43.357
12_034_1	618466.151	1119353.142	57.343
12_034_2	618524.001	1119251.104	58.465
12_034_3	616609.785	1119686.592	48.680
12_034_4	616269.602	1119390.304	49.857



12_034_5	614608.393	1119399.172	59.854
12_034_6	614291.514	1119329.575	59.865
12_035_1	619085.548	1122090.076	56.192
12_035_2	619084.260	1121890.825	56.612
12_035_3	616993.387	1122075.309	61.629
12_035_4	616979.045	1121782.352	62.630
12_035_5	614576.535	1121952.610	56.277
12_035_6	614786.672	1121858.522	55.722
12_036_1	619188.810	1124511.594	64.754
12_036_2	618954.097	1124560.780	64.371
12_036_3	616774.314	1124552.114	63.685
12_036_4	616511.629	1124544.373	62.763
12_036_5	614536.808	1124271.079	57.604
12_036_6	614597.924	1124261.868	57.734
12_037_1	619626.729	1127120.790	62.132
12_037_2	619632.641	1127063.876	61.670
12_037_3	617000.296	1126991.251	63.809
12_037_4	616996.591	1127043.652	62.822
12_037_5	614441.173	1127163.099	70.512
12_037_6	614541.584	1127042.948	70.620
12_038_1	619140.638	1129574.619	72.051
12_038_2	618895.710	1129594.965	73.288
12_038_3	616821.972	1129563.146	71.721
12_038_4	616509.792	1129563.939	69.979
12_038_5	614453.729	1129507.911	63.350
12_038_6	614501.383	1129383.598	63.678
12_039_1	619056.499	1132146.982	75.777
12_039_2	618881.226	1132199.192	76.186
12_039_3	616764.693	1132199.257	66.578
12_039_4	616546.203	1132205.635	67.626
12_039_5	614443.769	1132212.750	67.940
12_039_6	614302.579	1132258.242	67.095
12_040_1	619285.342	1134706.296	71.151
12_040_2	618394.065	1134633.579	72.202
12_040_3	616696.008	1134785.914	72.021
12_040_4	616637.149	1134665.435	72.336
12_040_5	614568.750	1134790.408	74.451
12_040_6	614385.545	1134741.316	74.141
12_041_1	618856.757	1137342.447	75.132
12_041_2	618781.626	1137118.877	75.051
12_041_3	616732.702	1137365.578	73.205
12_041_4	616485.939	1137362.216	73.534
12_041_5	614493.944	1136943.396	74.911
12_041_6	614651.431	1136967.453	75.528



12_042_1	619113.915	1139634.354	77.217
12_042_2	618846.965	1139721.252	77.589
12_042_3	616724.905	1139860.410	73.748
12_042_4	616441.902	1139775.296	74.667
12_042_5	614280.217	1139721.410	81.381
12_042_6	614448.655	1139762.620	82.036
12_043_1	619005.928	1142238.976	79.692
12_043_2	618869.752	1142228.338	79.247
12_043_3	616730.727	1142162.314	88.436
12_043_4	616510.586	1142149.067	89.344
12_043_5	614296.235	1142201.868	90.708
12_043_6	614210.690	1142200.323	90.236
12_044_1	618823.574	1144926.326	92.919
12_044_2	618630.753	1144914.287	93.191
12_044_3	616817.681	1144774.351	93.412
12_044_4	616633.942	1144799.096	93.528
12_044_5	614444.458	1144938.079	97.937
12_044_6	614280.055	1144818.063	98.223
12_045_1	619237.918	1146984.484	102.033
12_045_2	619015.959	1146992.379	106.896
12_045_3	616798.279	1147342.170	101.465
12_045_4	616449.372	1147197.023	100.369
12_045_5	614588.157	1147458.523	139.452
12_045_6	614590.619	1147155.162	139.462
12_046_1	619255.632	1149698.805	108.415
12_046_2	618990.072	1149856.113	109.155
12_046_3	617022.570	1149901.532	113.840
12_046_4	616982.120	1149853.711	120.734
12_046_5	614615.144	1149851.592	132.470
12_046_6	614613.911	1149795.122	133.168
12_047_1	618031.830	1152297.802	119.547
12_047_2	617710.181	1152328.451	113.482
12_047_3	616884.617	1152610.087	105.967
12_047_4	616407.986	1152724.758	107.161
12_047_5	614198.320	1152528.342	103.281
12_047_6	614102.699	1152315.987	103.889
12_048_1	618931.905	1154985.583	104.423
12_048_2	618804.599	1154975.917	104.098
12_048_3	616612.263	1155087.580	106.737
12_048_4	616482.881	1155094.796	107.277
12_048_5	614625.022	1155210.693	107.012
12_048_6	614599.934	1155255.435	106.674
12_049_1	619039.078	1157383.667	108.961
12_049_2	618873.903	1157377.483	108.792



12_049_3	616811.465	1157634.138	107.734
12_049_4	616573.490	1157638.878	107.254
12_049_5	614427.955	1157664.447	104.216
12_049_6	614282.964	1157584.917	103.615
12_050_1	618842.852	1160201.894	101.235
12_050_2	618624.811	1160115.410	101.287
12_050_3	616688.633	1160063.596	104.607
12_050_4	616480.677	1160100.560	104.139
12_050_5	614498.699	1160233.936	106.545
12_050_6	614320.830	1160192.692	105.815
12_051_1	619107.827	1162453.725	109.826
12_051_2	618896.430	1162500.567	110.219
12_051_3	616824.917	1162704.995	113.104
12_051_4	616576.924	1162680.881	113.007
12_051_5	614362.608	1162756.110	112.673
12_051_6	614249.071	1162618.829	112.298
12_052_1	619231.749	1165074.540	112.241
12_052_2	619001.049	1165155.412	111.806
12_052_3	616951.617	1165249.620	115.248
12_052_4	616783.448	1165226.178	115.362
12_052_5	614702.535	1165240.267	116.510
12_052_6	614360.755	1165235.349	115.188
12_053_1	619279.936	1167597.887	116.704
12_053_2	619066.214	1167623.967	116.600
12_053_3	617018.085	1167622.199	116.597
12_053_4	616471.874	1167559.265	118.420
12_053_5	614551.633	1167650.396	118.052
12_053_6	614501.608	1167620.705	118.412
13_001_1	618464.655	1035844.812	38.150
13_001_2	618852.867	1035773.213	38.337
13_001_3	620984.660	1035621.920	38.549
13_001_4	621190.737	1035611.190	37.931
13_001_5	623400.442	1035493.704	38.779
13_001_6	623514.775	1035530.360	37.557
13_002_1	618770.433	1038327.325	40.285
13_002_2	618912.503	1038384.747	40.114
13_002_3	621173.161	1038132.728	37.760
13_002_4	621319.226	1038115.236	37.665
13_002_5	623524.984	1037976.471	40.088
13_002_6	623285.752	1038031.324	39.743
13_003_1	618928.635	1040902.078	41.981
13_003_2	619157.524	1040811.134	41.556
13_003_3	621114.507	1040672.769	40.305
13_003_4	621465.405	1040634.868	39.703



13_003_5	623543.186	1040463.120	40.339
13_003_6	623625.127	1040610.166	40.735
13_004_1	618742.749	1043363.288	43.985
13_004_2	619044.295	1043369.779	44.617
13_004_3	621665.171	1043106.249	40.563
13_004_4	621741.936	1043203.624	40.699
13_004_5	623515.203	1043028.091	41.415
13_004_6	623520.766	1043143.577	41.457
13_005_1	618813.499	1045974.561	38.833
13_005_2	619015.488	1046194.683	33.903
13_005_3	621034.365	1045763.611	32.150
13_005_4	621221.917	1045664.811	33.859
13_005_5	623489.657	1045746.720	40.301
13_005_6	623313.411	1045718.861	39.675
13_006_1	618461.080	1048337.133	40.220
13_006_2	618917.802	1048516.858	40.395
13_006_3	620969.067	1048293.620	36.429
13_006_4	621581.349	1048412.458	35.246
13_006_5	623332.878	1048122.407	35.301
13_006_6	623488.368	1048346.061	34.696
13_007_1	618676.830	1050983.599	35.899
13_007_2	619061.711	1051028.291	35.389
13_007_3	621055.095	1051181.346	35.858
13_007_4	621431.899	1050934.633	36.436
13_007_5	623459.807	1050697.700	39.721
13_007_6	623786.201	1050730.820	40.941
13_008_1	618749.874	1053705.688	40.315
13_008_2	618956.956	1053611.191	39.377
13_008_3	621109.097	1053264.746	38.091
13_008_4	621370.745	1053466.826	38.261
13_008_5	623674.658	1053135.462	35.705
13_008_6	623696.591	1053251.670	36.340
13_009_1	618845.446	1056146.241	41.711
13_009_2	618966.847	1056152.404	41.813
13_009_3	621521.471	1055801.306	37.955
13_009_4	621475.244	1055658.111	37.808
13_009_5	623670.180	1055740.055	40.435
13_009_6	623728.323	1055674.856	40.521
13_010_1	618798.561	1058607.343	45.192
13_010_2	619090.851	1058581.318	45.203
13_010_3	621187.275	1058365.655	42.191
13_010_4	621062.275	1058328.325	42.677
13_010_5	623636.674	1058313.237	40.315
13_010_6	623627.239	1058321.970	40.035



13_011_1	619176.051	1061253.987	47.317
13_011_2	619288.913	1061169.217	47.748
13_011_3	621169.799	1060924.876	48.406
13_011_4	621348.740	1060861.676	47.524
13_011_5	623435.308	1060921.157	49.245
13_011_6	623645.869	1060848.105	49.925
13_012_1	618943.222	1063900.318	49.230
13_012_2	619084.377	1063918.145	50.207
13_012_3	621169.757	1063564.962	53.591
13_012_4	621379.645	1063543.605	53.753
13_012_5	623506.605	1063421.443	55.442
13_012_6	623678.831	1063416.902	55.184
13_013_1	618849.740	1066248.951	55.880
13_013_2	618966.989	1066178.193	56.070
13_013_3	621133.286	1065806.074	56.396
13_013_4	621552.056	1066050.799	54.839
13_013_5	623584.253	1065884.347	60.794
13_013_6	623786.501	1065900.816	60.452
13_014_1	618776.065	1068766.398	61.033
13_014_2	619019.477	1068762.443	61.770
13_014_3	621119.285	1068562.042	59.101
13_014_4	621366.249	1068411.759	60.190
13_014_5	623462.227	1068316.559	62.601
13_014_6	623471.823	1068209.812	60.258
13_015_1	618857.083	1071300.734	63.201
13_015_2	618981.801	1071260.460	63.278
13_015_3	621179.147	1071244.407	65.887
13_015_4	621370.884	1071243.250	66.429
13_015_5	623568.448	1070637.205	63.948
13_015_6	623543.822	1070824.427	64.346
13_016_1	619214.929	1073870.001	65.022
13_016_2	619284.482	1073807.426	64.828
13_016_3	621258.347	1073599.867	66.089
13_016_4	621456.782	1073649.337	66.662
13_016_5	623247.584	1073421.008	67.916
13_016_6	623721.009	1073694.125	69.909
13_017_1	618757.935	1076314.131	68.004
13_017_2	618821.895	1076315.547	68.831
13_017_3	621080.058	1076227.537	69.122
13_017_4	621382.879	1076158.188	68.570
13_017_5	623649.369	1076090.802	73.221
13_017_6	623714.670	1075977.875	73.451
13_018_1	618955.955	1078752.554	72.955
13_018_2	619258.612	1078822.968	73.826



13_018_3	621192.621	1078683.554	75.189
13_018_4	621362.340	1078680.123	75.460
13_018_5	623357.349	1078616.623	74.237
13_018_6	623754.293	1078689.115	74.006
13_019_1	618668.690	1081287.429	70.419
13_019_2	619080.849	1081318.220	69.484
13_019_3	621214.203	1081121.674	73.522
13_019_4	621382.989	1081126.183	73.745
13_019_5	623273.400	1081199.352	72.982
13_019_6	623406.051	1081199.123	73.088
13_020_1	618681.214	1084100.566	55.827
13_020_2	619202.577	1084081.198	59.079
13_020_3	621206.879	1083680.666	67.422
13_020_4	621452.522	1083791.936	69.517
13_020_5	623275.006	1083600.592	75.149
13_020_6	623622.273	1083697.541	74.813
13_021_1	619087.519	1086580.464	54.775
13_021_2	619237.651	1086746.350	54.676
13_021_3	621217.089	1086202.721	63.092
13_021_4	621403.468	1086252.733	62.545
13_021_5	623601.439	1085974.473	73.600
13_021_6	623393.229	1086125.350	74.161
13_022_1	618560.527	1089113.267	48.074
13_022_2	619003.391	1089240.351	48.305
13_022_3	621136.406	1088940.789	58.183
13_022_4	621372.402	1088971.628	58.113
13_022_5	623592.312	1088843.709	70.359
13_022_6	623731.357	1088777.861	65.677
13_023_1	618655.745	1091490.581	48.423
13_023_2	618861.880	1091612.702	48.723
13_023_3	621271.644	1091474.489	57.308
13_023_4	621270.569	1091473.693	57.412
13_023_5	623481.751	1091265.330	63.422
13_023_6	623636.172	1091251.820	63.538
13_024_1	618678.113	1094179.750	46.477
13_024_2	618630.480	1093948.887	46.348
13_024_3	621092.622	1093949.696	53.307
13_024_4	621374.793	1093934.209	53.390
13_024_5	623382.862	1093730.944	63.950
13_024_6	623686.661	1093768.224	65.611
13_025_1	619269.566	1096929.166	47.598
13_025_2	619748.604	1096931.102	45.467
13_025_3	621130.124	1096385.545	50.496
13_025_4	621118.710	1096656.779	47.890



13_025_5	623513.627	1096321.026	54.791
13_025_6	623548.076	1096456.174	54.689
13_026_1	618860.479	1099169.319	52.311
13_026_2	618994.361	1099182.666	52.860
13_026_3	621259.344	1099057.369	57.075
13_026_4	621372.931	1098956.274	56.341
13_026_5	623730.433	1098887.175	52.544
13_026_6	623455.215	1098941.889	51.603
13_027_1	618681.975	1101757.201	56.715
13_027_2	618880.179	1101662.230	56.458
13_027_3	621048.147	1101537.864	56.748
13_027_4	621082.784	1101676.375	57.019
13_027_5	623459.492	1101368.275	55.125
13_027_6	623719.868	1101355.648	56.480
13_028_1	618611.642	1104407.646	61.563
13_028_2	619363.255	1104418.987	60.661
13_028_3	621622.725	1104305.129	61.389
13_028_4	621748.106	1104314.971	61.104
13_028_5	623549.941	1103990.466	60.930
13_028_6	623696.754	1103951.423	60.799
13_029_1	619085.648	1106776.538	55.833
13_029_2	618937.080	1106913.737	55.194
13_029_3	621002.438	1106781.656	57.922
13_029_4	621489.872	1106164.157	58.938
13_029_5	623436.151	1106567.811	60.972
13_029_6	623517.971	1106634.674	61.233
13_030_1	618578.658	1109320.815	57.684
13_030_2	618619.144	1109421.391	57.956
13_030_3	620989.726	1108950.892	67.716
13_030_4	621315.728	1109278.162	68.731
13_030_5	623533.988	1108724.368	67.250
13_030_6	623730.377	1108937.150	66.922
13_031_1	619260.185	1111753.236	61.044
13_031_2	619238.293	1112033.551	62.332
13_031_3	620773.812	1111900.353	65.905
13_031_4	620687.535	1111733.035	67.667
13_031_5	623363.161	1111420.646	76.649
13_031_6	623398.404	1111849.173	75.978
13_032_1	619043.240	1114259.045	65.271
13_032_2	619174.549	1114405.652	67.238
13_032_3	621080.333	1114197.128	75.676
13_032_4	621315.103	1114153.680	75.213
13_032_5	623363.585	1114124.316	70.404
13_032_6	623314.754	1114148.332	71.022



13_033_1	618558.207	1116922.696	66.242
13_033_2	619196.839	1117174.202	68.822
13_033_3	621003.009	1116657.983	63.935
13_033_4	621066.245	1116808.833	65.248
13_033_5	623449.311	1116512.932	68.241
13_033_6	623715.018	1116737.654	71.029
13_034_1	618356.123	1119594.361	56.940
13_034_2	618450.261	1119436.520	57.048
13_034_3	621160.175	1119388.087	59.889
13_034_4	621367.582	1119140.124	61.816
13_034_5	623647.445	1119331.617	69.814
13_034_6	623669.122	1119166.823	68.633
13_035_1	619030.616	1122275.281	56.939
13_035_2	619096.579	1122167.598	57.385
13_035_3	621254.110	1122039.673	59.292
13_035_4	621350.286	1121724.286	59.585
13_035_5	623608.486	1121648.716	71.528
13_035_6	623685.048	1121646.163	72.129
13_036_1	618878.551	1124444.812	64.991
13_036_2	619208.714	1124523.931	65.209
13_036_3	621202.212	1124291.855	65.093
13_036_4	621407.805	1124286.235	66.971
13_036_5	623546.723	1124297.283	70.025
13_036_6	623739.873	1124292.171	70.598
13_037_1	618837.656	1126965.269	62.857
13_037_2	619008.037	1126942.030	63.846
13_037_3	621101.479	1126886.180	63.264
13_037_4	621255.865	1126872.989	63.959
13_037_5	623258.357	1126843.249	66.237
13_037_6	623757.175	1126851.287	68.059
13_038_1	618740.974	1129403.815	71.457
13_038_2	618946.271	1129480.511	71.080
13_038_3	621109.978	1129379.312	64.269
13_038_4	621170.501	1129373.080	63.774
13_038_5	623463.641	1129263.233	68.431
13_038_6	623746.642	1129270.153	68.930
13_039_1	618727.016	1132029.503	75.225
13_039_2	618605.321	1132139.745	74.230
13_039_3	620938.034	1131934.799	77.832
13_039_4	621361.850	1131947.450	75.532
13_039_5	623340.322	1131751.093	73.736
13_039_6	623617.110	1131789.391	74.083
13_040_1	618382.930	1134643.019	72.135
13_040_2	618457.004	1134662.410	72.567



13_040_3	620991.771	1134426.926	81.644
13_040_4	620988.469	1134528.034	80.913
13_040_5	623375.752	1134312.796	81.099
13_040_6	623452.498	1134390.618	80.619
13_041_1	618761.563	1137024.579	74.868
13_041_2	619008.373	1137008.158	75.373
13_041_3	620977.828	1136848.023	68.264
13_041_4	621375.525	1136923.613	73.450
13_041_5	623561.369	1136910.250	80.670
13_041_6	623350.727	1136981.567	78.887
13_042_1	618714.046	1139633.869	78.002
13_042_2	618851.645	1139728.121	77.546
13_042_3	621279.061	1139723.817	74.038
13_042_4	621344.387	1139586.906	73.201
13_042_5	623106.776	1139406.260	71.319
13_042_6	623629.315	1139243.530	71.820
13_043_1	618880.362	1142243.298	79.217
13_043_2	619007.685	1142282.061	79.827
13_043_3	619850.457	1142352.484	78.327
13_043_4	619965.016	1141951.983	75.420
13_043_5	623894.434	1141893.110	77.181
13_043_6	623927.341	1142034.924	77.750
13_044_1	618651.725	1144966.458	93.581
13_044_2	618830.923	1145079.903	94.094
13_044_3	621336.395	1144524.469	92.820
13_044_4	621497.080	1144546.097	93.282
13_044_5	623684.708	1144452.185	90.958
13_044_6	623326.515	1144513.062	91.703
13_045_1	620604.572	1147495.378	101.309
13_045_2	620630.567	1147501.020	101.285
13_045_3	621746.720	1147298.842	102.952
13_045_4	622074.030	1147279.239	102.048
13_045_5	623448.650	1147158.766	100.831
13_045_6	623459.089	1147223.442	101.065
13_046_1	618749.943	1149795.762	109.161
13_046_2	618895.930	1149884.969	109.568
13_046_3	621122.283	1149678.191	109.136
13_046_4	621382.417	1149622.885	109.744
13_046_5	623439.633	1149630.091	108.029
13_046_6	623496.469	1149647.286	108.158
13_047_1	618446.442	1152594.601	116.948
13_047_2	618623.571	1152598.319	106.303
13_047_3	621098.728	1152191.928	110.217
13_047_4	621326.821	1152204.635	111.035



13_047_5	623818.821	1152216.461	110.476
13_047_6	623654.320	1152434.517	110.237
13_048_1	618698.807	1154954.928	104.567
13_048_2	618972.099	1154868.781	104.116
13_048_3	621186.185	1154699.448	106.922
13_048_4	621501.395	1154657.566	106.946
13_048_5	623277.404	1154619.115	109.595
13_048_6	623325.685	1154693.824	109.538
13_049_1	619024.041	1157457.231	109.142
13_049_2	619153.378	1157472.179	109.416
13_049_3	621116.040	1157288.968	106.678
13_049_4	621351.503	1157303.165	106.941
13_049_5	623497.209	1157183.236	110.656
13_049_6	623675.626	1157296.816	110.444
13_050_1	618537.021	1160058.103	101.263
13_050_2	618842.895	1160211.492	101.538
13_050_3	620957.915	1159825.969	104.365
13_050_4	621556.567	1159877.135	104.509
13_050_5	623554.004	1159777.771	109.836
13_050_6	623701.853	1159838.620	110.232
13_051_1	618974.458	1162597.012	109.697
13_051_2	619017.635	1162632.935	109.681
13_051_3	621488.162	1162319.689	104.581
13_051_4	621688.927	1162360.783	106.242
13_051_5	623514.778	1162285.010	110.966
13_051_6	623556.130	1162330.272	110.953
13_052_1	618841.628	1165171.325	111.930
13_052_2	619008.812	1165119.887	111.558
13_052_3	621085.341	1164953.871	112.708
13_052_4	621298.785	1164948.820	111.019
13_052_5	622827.263	1164789.303	107.429
13_052_6	622689.998	1164928.195	106.695
13_053_1	618699.108	1167532.311	115.712
13_053_2	618946.905	1167504.725	116.671
13_053_3	620986.760	1167490.541	114.328
13_053_4	621176.301	1167486.265	113.834
13_053_5	623349.513	1167349.092	114.212
13_053_6	623564.641	1167406.362	113.448
14_001_1	627743.533	1035654.953	39.414
14_001_2	627745.041	1035603.583	39.304
14_001_3	625599.874	1035769.908	39.160
14_001_4	625484.054	1035813.782	38.990
14_001_5	623221.021	1035704.103	38.308
14_001_6	623118.928	1035674.634	40.123



14_002_1	628154.273	1038332.768	37.554
14_002_2	628253.908	1038132.100	37.257
14_002_3	625552.300	1038314.905	40.386
14_002_4	625367.035	1038307.140	40.218
14_002_5	623268.744	1038467.581	40.406
14_002_6	623518.861	1038374.688	40.063
14_003_1	628145.743	1040883.694	39.855
14_003_2	628185.501	1040854.086	40.035
14_003_3	625741.244	1040853.976	40.036
14_003_4	625802.249	1040774.397	40.380
14_003_5	622950.556	1040892.184	38.197
14_003_6	622966.660	1040860.476	38.568
14_004_1	628114.173	1043339.468	39.634
14_004_2	627145.655	1043412.947	39.180
14_004_3	625970.536	1043332.652	40.642
14_004_4	625670.840	1043236.604	40.234
14_004_5	623114.423	1043473.509	41.531
14_004_6	622969.573	1043454.906	41.732
14_005_1	627972.418	1045872.037	35.667
14_005_2	627652.764	1045575.433	36.307
14_005_3	625609.131	1046099.133	34.640
14_005_4	625306.161	1046211.674	35.536
14_005_5	623290.675	1045994.938	35.404
14_005_6	623103.022	1045955.822	34.082
14_006_1	627694.396	1048375.407	38.658
14_006_2	627614.384	1048431.909	38.501
14_006_3	625443.622	1048422.953	34.857
14_006_4	625346.509	1048421.795	35.073
14_006_5	623192.820	1048369.494	36.149
14_006_6	623160.600	1048334.218	35.562
14_007_1	627815.427	1050904.859	40.717
14_007_2	627765.926	1051006.519	40.201
14_007_3	625390.979	1050783.749	40.346
14_007_4	625340.934	1050755.431	40.091
14_007_5	623498.040	1051040.932	40.842
14_007_6	623255.762	1051011.122	40.513
14_008_1	627666.275	1053492.985	38.748
14_008_2	627232.406	1053520.036	38.597
14_008_3	625578.584	1053391.684	36.944
14_008_4	625454.400	1053336.479	38.273
14_008_5	623181.080	1053299.786	37.894
14_008_6	623139.712	1053370.597	38.019
14_009_1	627975.905	1055875.897	43.049
14_009_2	627623.141	1055982.427	44.568



14_009_3	625546.549	1055984.041	43.853
14_009_4	625228.322	1055958.159	43.257
14_009_5	623714.297	1055819.979	40.510
14_009_6	623662.099	1055784.528	40.419
14_010_1	627325.011	1058594.366	45.256
14_010_2	627262.877	1058568.037	45.132
14_010_3	625637.172	1058574.957	45.417
14_010_4	625490.292	1058483.120	45.371
14_010_5	623110.289	1058358.092	39.815
14_010_6	623080.115	1058264.535	39.331
14_011_1	626899.333	1061111.452	48.685
14_011_2	626893.845	1061061.648	48.339
14_011_3	625442.903	1061356.629	48.965
14_011_4	625355.829	1061345.549	48.458
14_011_5	623142.380	1061320.360	49.282
14_011_6	623088.008	1061241.778	48.446
14_012_1	627489.597	1063492.579	52.191
14_012_2	627418.165	1063684.635	53.163
14_012_3	625510.183	1063511.886	52.530
14_012_4	625332.238	1063751.064	54.046
14_012_5	623072.324	1063848.019	56.180
14_012_6	623053.928	1063751.428	55.506
14_013_1	628087.193	1066082.552	55.677
14_013_2	627775.469	1066188.186	56.823
14_013_3	625803.661	1066254.651	58.208
14_013_4	625738.957	1066380.951	58.008
14_013_5	623120.090	1066219.662	58.882
14_013_6	623045.653	1066294.754	60.088
14_014_1	628017.120	1068482.484	59.918
14_014_2	627647.510	1068673.102	60.546
14_014_3	625793.168	1068786.071	62.338
14_014_4	625347.439	1068819.722	62.421
14_014_5	623413.316	1068873.999	60.937
14_014_6	623460.552	1068834.802	60.796
14_015_1	627978.330	1071067.969	65.545
14_015_2	627994.344	1071387.610	66.308
14_015_3	625611.488	1071399.147	66.442
14_015_4	625401.835	1071220.679	65.867
14_015_5	623187.338	1071288.064	66.333
14_015_6	623079.123	1071182.748	65.950
14_016_1	627436.651	1073612.105	67.742
14_016_2	627321.231	1073767.247	67.590
14_016_3	625437.849	1073656.437	69.119
14_016_4	625275.422	1073707.544	68.254



14_016_5	623286.184	1073990.458	70.056
14_016_6	623007.537	1073582.562	67.525
14_017_1	627956.559	1076258.542	71.070
14_017_2	627693.351	1076298.446	72.464
14_017_3	625731.648	1076294.096	72.629
14_017_4	625453.266	1076593.566	71.874
14_017_5	623300.359	1076450.304	72.367
14_017_6	623368.949	1076138.134	70.996
14_018_1	628057.732	1078690.896	69.582
14_018_2	627818.909	1078692.706	67.726
14_018_3	625576.340	1078986.673	69.309
14_018_4	625384.326	1078959.596	68.721
14_018_5	623269.784	1078998.745	75.150
14_018_6	622987.190	1079049.994	75.427
14_019_1	627911.119	1081211.578	73.670
14_019_2	627479.316	1081502.721	73.304
14_019_3	625625.065	1081294.788	71.941
14_019_4	625225.629	1081427.891	72.700
14_019_5	623184.672	1081590.760	71.815
14_019_6	622997.236	1081475.043	72.362
14_020_1	627819.586	1083979.329	68.973
14_020_2	627683.558	1083992.452	68.647
14_020_3	625588.752	1084000.613	67.942
14_020_4	625342.399	1084067.697	67.465
14_020_5	623150.351	1084314.776	75.885
14_020_6	623108.525	1084227.332	75.610
14_021_1	627824.021	1086440.477	77.411
14_021_2	627471.730	1086523.697	78.292
14_021_3	625287.680	1086617.565	76.085
14_021_4	625313.671	1086271.509	76.127
14_021_5	623488.330	1086655.484	72.077
14_021_6	623469.849	1086455.606	72.781
14_022_1	627978.113	1088851.477	77.546
14_022_2	627677.372	1088990.244	77.727
14_022_3	625499.231	1089050.576	72.561
14_022_4	625224.547	1089049.047	71.029
14_022_5	623077.464	1089168.727	62.949
14_022_6	623162.277	1089030.850	63.531
14_023_1	627922.424	1091217.275	74.433
14_023_2	627572.000	1091269.357	73.030
14_023_3	625509.038	1091671.306	66.666
14_023_4	625062.191	1091783.674	67.330
14_023_5	623550.917	1091837.939	64.708
14_023_6	623510.314	1091488.727	63.748



14_024_1	627845.071	1094144.302	72.977
14_024_2	627624.379	1094111.893	73.261
14_024_3	625258.992	1094239.435	69.566
14_024_4	625117.519	1094191.229	69.148
14_024_5	623444.010	1094318.925	61.380
14_024_6	622980.222	1094340.599	58.118
14_025_1	627932.223	1096756.798	71.517
14_025_2	627514.419	1096699.779	71.113
14_025_3	626226.556	1096545.562	65.313
14_025_4	624762.358	1096775.107	58.978
14_025_5	623306.612	1096565.311	55.289
14_025_6	622926.610	1096828.429	54.194
14_026_1	627847.007	1099340.706	61.240
14_026_2	627609.457	1099292.790	61.652
14_026_3	625782.355	1099245.457	63.251
14_026_4	625427.617	1099218.970	61.396
14_026_5	623333.074	1099053.437	51.719
14_026_6	623673.930	1099299.543	54.740
14_027_1	628152.101	1101715.590	70.639
14_027_2	627990.134	1101623.528	69.415
14_027_3	625745.549	1101744.892	64.780
14_027_4	625545.972	1101684.193	64.121
14_027_5	623333.861	1101925.270	55.289
14_027_6	623504.617	1101488.418	54.922
14_028_1	628081.364	1104259.436	78.466
14_028_2	627870.005	1104312.737	77.911
14_028_3	625769.108	1104303.174	64.512
14_028_4	625656.960	1104260.058	63.953
14_028_5	623223.185	1104240.108	61.186
14_028_6	623109.716	1104235.073	61.911
14_029_1	628066.566	1106693.752	72.936
14_029_2	627438.784	1106639.793	70.244
14_029_3	625566.927	1106931.771	62.605
14_029_4	625479.126	1106779.333	62.269
14_029_5	623507.424	1106889.902	62.931
14_029_6	623006.918	1106557.642	60.202
14_030_1	627790.231	1109153.158	73.130
14_030_2	627650.488	1109270.652	73.303
14_030_3	625037.885	1109336.443	66.842
14_030_4	625039.141	1109438.265	67.706
14_030_5	623363.000	1109244.184	69.605
14_030_6	623208.107	1109162.999	68.542
14_031_1	627697.286	1111880.298	69.322
14_031_2	627452.318	1111533.434	69.597



14_031_3	625449.615	1111909.697	69.890
14_031_4	625287.338	1111992.422	69.149
14_031_5	623392.115	1111845.991	76.326
14_031_6	623447.492	1111731.987	76.686
14_032_1	627935.097	1114279.549	72.252
14_032_2	627843.494	1114164.818	71.712
14_032_3	625568.883	1114613.221	69.667
14_032_4	625668.018	1114502.495	69.493
14_032_5	622988.612	1114515.668	72.241
14_032_6	622882.836	1114474.885	72.509
14_033_1	627834.569	1116902.598	80.284
14_033_2	627614.087	1116896.776	79.572
14_033_3	625757.954	1116982.142	73.953
14_033_4	625289.969	1116988.366	73.848
14_033_5	623492.299	1117054.703	70.167
14_033_6	623641.730	1116880.177	70.703
14_034_1	627542.067	1119413.470	76.675
14_034_2	627496.678	1119429.259	76.209
14_034_3	625689.397	1119469.017	71.919
14_034_4	625366.644	1119445.039	70.353
14_034_5	623187.386	1119331.995	67.625
14_034_6	622922.981	1119333.407	66.678
14_035_1	627562.624	1122098.334	75.798
14_035_2	627472.940	1122131.468	75.653
14_035_3	625535.153	1122236.880	75.984
14_035_4	625528.826	1122253.377	75.022
14_035_5	623294.583	1122276.565	67.551
14_035_6	623170.967	1121798.618	66.426
14_036_1	627528.579	1124465.618	79.041
14_036_2	627412.417	1124555.335	79.112
14_036_3	625609.834	1124528.160	73.880
14_036_4	625364.921	1124566.340	73.270
14_036_5	622994.687	1124297.679	70.145
14_036_6	623133.509	1124371.304	70.124
14_037_1	627665.874	1127155.299	78.275
14_037_2	627610.096	1127070.443	80.156
14_037_3	625561.406	1127196.634	71.418
14_037_4	625497.149	1126904.743	71.870
14_037_5	623207.984	1127172.306	66.321
14_037_6	623103.046	1127115.374	66.247
14_038_1	628202.934	1129685.640	79.318
14_038_2	627555.980	1129584.354	75.167
14_038_3	625759.073	1129487.338	73.157
14_038_4	625350.342	1129577.396	70.768

14_038_5	623322.253	1129827.915	67.291
14_038_6	623018.793	1129857.144	66.792
14_039_1	627535.336	1131905.855	74.271
14_039_2	627559.878	1131812.627	74.463
14_039_3	625582.946	1132322.653	74.915
14_039_4	625582.833	1131869.705	74.841
14_039_5	623303.547	1132097.393	73.818
14_039_6	623416.846	1132113.284	74.445
14_040_1	627697.818	1134519.920	77.383
14_040_2	627620.673	1134656.406	77.018
14_040_3	625809.385	1134604.594	78.028
14_040_4	625632.608	1134568.393	78.345
14_040_5	623372.815	1134631.084	81.015
14_040_6	622979.928	1134471.589	80.318
14_041_1	627709.892	1137270.834	86.625
14_041_2	627523.887	1137158.715	86.132
14_041_3	625689.723	1137322.971	88.969
14_041_4	625463.308	1137320.213	87.122
14_041_5	623250.091	1137196.109	78.662
14_041_6	623140.950	1137146.276	78.228
14_042_1	627457.047	1139688.203	76.417
14_042_2	627395.858	1139452.570	77.500
14_042_3	626339.934	1139903.943	72.552
14_042_4	626238.940	1139721.835	75.421
14_042_5	623394.116	1139857.697	73.805
14_042_6	623208.072	1139739.688	73.796
14_043_1	628019.386	1142318.020	79.835
14_043_2	627850.942	1142375.227	79.289
14_043_3	625741.730	1142133.112	78.366
14_043_4	625522.168	1142070.714	77.536
14_043_5	624229.801	1142051.218	77.184
14_043_6	624338.275	1142347.135	78.264
14_044_1	627796.423	1144759.031	96.843
14_044_2	627806.786	1144458.599	94.573
14_044_3	625638.504	1144781.831	92.845
14_044_4	625163.412	1145002.604	91.028
14_044_5	623216.977	1144729.508	93.530
14_044_6	623001.435	1144732.157	93.843
14_045_1	627701.458	1147483.626	100.800
14_045_2	627110.621	1147371.090	100.317
14_045_3	625623.289	1147522.212	100.705
14_045_4	625624.790	1147434.206	101.409
14_045_5	623239.616	1147329.708	102.732
14_045_6	622924.621	1147402.557	102.717



14_046_1	628152.455	1149867.057	106.838
14_046_2	627701.789	1149883.134	105.607
14_046_3	625692.381	1149908.100	110.289
14_046_4	625317.683	1149837.946	110.194
14_046_5	623336.914	1149852.374	108.398
14_046_6	623199.237	1149768.216	108.629
14_047_1	627982.417	1152419.203	109.769
14_047_2	627777.606	1152422.428	108.859
14_047_3	625384.703	1152389.363	109.190
14_047_4	625194.792	1152355.120	110.078
14_047_5	623566.084	1152363.466	109.790
14_047_6	623688.325	1152479.453	110.260
14_048_1	627867.006	1154935.934	113.466
14_048_2	627688.096	1154912.988	112.882
14_048_3	625880.815	1155003.972	110.714
14_048_4	625594.683	1154992.454	111.061
14_048_5	623476.056	1154983.820	109.665
14_048_6	623475.694	1154774.309	109.574
14_049_1	627653.147	1157392.197	116.332
14_049_2	627512.205	1157586.257	116.063
14_049_3	625595.842	1157467.142	114.271
14_049_4	625483.445	1157432.081	114.161
14_049_5	623351.326	1157544.508	109.898
14_049_6	623212.770	1157352.611	109.628
14_050_1	628021.373	1160094.613	113.161
14_050_2	627589.153	1160054.369	113.491
14_050_3	625655.472	1160019.372	111.817
14_050_4	625272.521	1160016.099	112.629
14_050_5	623104.803	1159955.991	108.356
14_050_6	623649.509	1159980.742	109.953
14_051_1	627708.975	1162574.473	115.065
14_051_2	627525.381	1162547.536	114.081
14_051_3	625505.106	1162774.798	109.990
14_051_4	625303.511	1162680.813	110.877
14_051_5	623094.271	1162398.594	110.494
14_051_6	623086.383	1162479.130	111.018
14_052_1	627198.496	1164948.729	115.911
14_052_2	627529.391	1165215.545	112.644
14_052_3	625703.102	1165277.994	114.338
14_052_4	625597.878	1165222.839	115.166
14_052_5	623726.337	1165187.738	110.539
14_052_6	624075.039	1165158.391	110.268
14_053_1	627963.489	1167735.665	108.462
14_053_2	627777.898	1167727.644	108.175



14_053_3	625157.345	1167649.197	107.567
14_053_4	625030.065	1167529.007	106.787
14_053_5	623256.629	1167617.514	114.900
14_053_6	623134.434	1167677.787	113.662
15_001_1	627748.299	1035649.770	39.610
15_001_2	627753.267	1035821.813	39.903
15_001_3	629536.717	1035629.970	35.892
15_001_4	630189.424	1035917.842	35.810
15_001_5	632086.635	1035685.546	33.909
15_001_6	632341.860	1035999.655	34.870
15_002_1	627265.107	1038144.555	40.666
15_002_2	627238.387	1038152.354	39.532
15_002_3	629817.728	1038143.977	39.576
15_002_4	629917.318	1038319.367	39.834
15_002_5	632340.134	1038148.143	36.499
15_002_6	632348.757	1038216.148	35.958
15_003_1	628195.181	1040863.985	39.575
15_003_2	628124.471	1040907.651	39.786
15_003_3	629795.007	1040471.817	37.587
15_003_4	629936.184	1040480.853	36.927
15_003_5	632481.284	1040637.556	37.407
15_003_6	632454.814	1040520.878	37.178
15_004_1	627144.039	1043409.082	39.309
15_004_2	628024.118	1043199.386	39.516
15_004_3	629912.066	1043201.772	37.686
15_004_4	629928.269	1043058.905	37.936
15_004_5	632429.056	1043376.090	40.774
15_004_6	632412.845	1042922.104	42.092
15_005_1	627395.178	1045735.806	35.803
15_005_2	627749.697	1046061.402	37.477
15_005_3	629682.823	1045573.916	34.945
15_005_4	629758.668	1045581.381	34.987
15_005_5	632290.594	1045684.695	42.984
15_005_6	632434.212	1045681.085	43.410
15_006_1	627482.582	1048316.373	39.193
15_006_2	627666.273	1048354.688	38.913
15_006_3	629885.745	1048153.159	42.304
15_006_4	630144.754	1048448.598	42.651
15_006_5	632090.585	1048177.569	45.762
15_006_6	632431.456	1048209.977	44.300
15_007_1	627303.100	1050836.351	41.248
15_007_2	627670.130	1050900.647	41.050
15_007_3	629875.558	1050958.924	45.640
15_007_4	630085.897	1050979.652	40.696



15_007_5	632112.971	1050659.671	39.466
15_007_6	632635.482	1050836.788	39.554
15_008_1	627556.282	1053268.617	38.738
15_008_2	627636.437	1053511.552	38.499
15_008_3	629829.435	1053328.598	42.739
15_008_4	630040.460	1053308.989	42.345
15_008_5	632103.711	1053318.838	44.932
15_008_6	632352.223	1053360.790	45.198
15_009_1	627497.864	1055908.002	44.497
15_009_2	627628.981	1055983.009	44.496
15_009_3	629822.987	1055812.969	44.446
15_009_4	629972.475	1056185.160	46.175
15_009_5	632263.468	1055679.278	41.692
15_009_6	632432.745	1055849.998	41.893
15_010_1	627848.764	1058225.090	44.232
15_010_2	627981.340	1058591.110	45.296
15_010_3	629663.103	1058605.648	47.944
15_010_4	630076.574	1058741.211	48.903
15_010_5	632274.244	1058241.838	50.881
15_010_6	632351.169	1058270.253	50.893
15_011_1	628289.926	1060984.307	51.883
15_011_2	628366.203	1061011.649	52.504
15_011_3	629893.595	1061007.691	48.403
15_011_4	629955.595	1061171.756	48.639
15_011_5	632081.068	1060727.717	50.656
15_011_6	632485.236	1060776.584	50.558
15_012_1	627519.343	1063779.648	52.830
15_012_2	627750.143	1063377.958	50.561
15_012_3	630148.065	1063405.609	54.922
15_012_4	630252.093	1063511.744	55.134
15_012_5	632173.415	1063332.648	51.362
15_012_6	632454.461	1063321.488	51.147
15_013_1	627757.053	1066191.352	57.086
15_013_2	627806.632	1066229.177	56.793
15_013_3	630071.775	1065960.088	55.200
15_013_4	630207.918	1066043.367	55.416
15_013_5	632093.669	1065853.709	56.812
15_013_6	632327.434	1065825.411	57.629
15_014_1	627248.924	1068645.063	60.814
15_014_2	627259.099	1068550.372	59.764
15_014_3	629643.402	1068583.083	59.604
15_014_4	630225.693	1068613.389	59.100
15_014_5	632531.220	1068300.860	60.748
15_014_6	632419.497	1068574.104	61.168



15_015_1	627738.069	1071376.445	66.537
15_015_2	627742.230	1071215.855	66.409
15_015_3	629429.377	1071119.839	62.531
15_015_4	629383.594	1071217.105	62.639
15_015_5	631767.024	1070811.196	61.493
15_015_6	631275.966	1071274.976	64.061
15_016_1	627294.823	1073701.296	67.558
15_016_2	627402.831	1073779.847	67.038
15_016_3	629663.209	1073992.863	69.105
15_016_4	629731.636	1074025.022	69.261
15_016_5	632585.675	1073601.364	66.901
15_016_6	632646.289	1073687.096	68.224
15_017_1	627590.681	1076488.127	73.154
15_017_2	627721.811	1076533.570	72.068
15_017_3	629813.864	1076249.387	69.007
15_017_4	630267.475	1076256.342	69.488
15_017_5	632266.315	1076178.891	69.216
15_017_6	632159.807	1076356.927	69.352
15_018_1	627601.839	1078878.959	68.695
15_018_2	627879.631	1079054.388	70.250
15_018_3	629974.759	1078821.208	71.796
15_018_4	630096.990	1078678.996	70.475
15_018_5	632477.939	1078671.738	74.673
15_018_6	632341.470	1078742.063	73.789
15_019_1	627378.901	1081489.830	72.055
15_019_2	627924.047	1081220.218	73.523
15_019_3	629599.685	1081309.436	78.240
15_019_4	630259.130	1081308.740	78.304
15_019_5	631784.485	1081126.797	76.553
15_019_6	632067.777	1081171.799	76.123
15_020_1	627555.234	1083911.057	67.966
15_020_2	627669.077	1083920.231	68.528
15_020_3	629715.337	1083880.575	71.056
15_020_4	630175.758	1083837.155	72.771
15_020_5	632243.294	1083582.092	77.021
15_020_6	632397.333	1083581.578	77.707
15_021_1	627104.091	1086468.103	78.865
15_021_2	627138.404	1086511.088	79.287
15_021_3	630167.205	1086252.902	75.581
15_021_4	630434.527	1086316.381	76.360
15_021_5	632188.907	1086085.808	80.840
15_021_6	632097.010	1086301.962	79.975
15_022_1	627507.272	1088925.063	77.878
15_022_2	627718.886	1088860.918	77.628



15_022_3	629791.856	1088999.845	76.986
15_022_4	630103.809	1088764.269	75.207
15_022_5	631975.230	1088833.892	78.492
15_022_6	631955.293	1088734.406	78.078
15_023_1	627502.341	1091552.206	72.187
15_023_2	627663.969	1091632.501	73.027
15_023_3	629761.250	1091369.507	76.227
15_023_4	630054.804	1091376.860	75.914
15_023_5	632196.301	1091231.685	78.279
15_023_6	632442.715	1091187.446	77.713
15_024_1	627471.141	1094018.511	72.770
15_024_2	627589.422	1094140.001	72.929
15_024_3	629866.992	1093854.001	75.745
15_024_4	629908.446	1094246.961	76.514
15_024_5	632154.656	1093799.639	76.319
15_024_6	632068.700	1093671.592	76.181
15_025_1	627516.485	1096721.305	70.979
15_025_2	627851.159	1096658.000	71.438
15_025_3	629601.609	1096563.335	70.860
15_025_4	629810.083	1096676.935	70.015
15_025_5	632658.301	1096392.057	74.481
15_025_6	632403.744	1096454.805	74.155
15_026_1	627710.920	1099313.584	61.797
15_026_2	627987.756	1099375.926	60.835
15_026_3	629902.252	1098699.995	67.633
15_026_4	630026.697	1099208.518	67.115
15_026_5	632061.645	1098803.342	73.732
15_026_6	632462.246	1098868.523	74.273
15_027_1	627416.886	1101721.605	67.176
15_027_2	627814.245	1101705.454	68.711
15_027_3	630017.251	1101481.898	74.962
15_027_4	630109.623	1101527.333	75.219
15_027_5	632003.384	1101493.482	72.823
15_027_6	631773.676	1101480.941	72.972
15_028_1	627608.496	1104219.505	75.582
15_028_2	627819.076	1104237.024	77.357
15_028_3	629933.040	1103982.140	80.554
15_028_4	630090.201	1103946.370	81.709
15_028_5	632078.691	1103972.339	84.648
15_028_6	631879.589	1104019.430	86.235
15_029_1	627352.471	1106694.013	69.468
15_029_2	628043.118	1106698.305	73.319
15_029_3	629914.471	1106639.680	82.384
15_029_4	630042.712	1106647.834	82.879



15_029_5	631996.388	1106472.919	86.219
15_029_6	631904.451	1106550.899	85.142
15_030_1	627602.249	1109383.450	73.259
15_030_2	627857.489	1109210.050	73.292
15_030_3	629674.670	1109391.699	74.107
15_030_4	630045.018	1109071.389	75.418
15_030_5	632251.690	1109096.713	79.371
15_030_6	632235.383	1109173.198	79.304
15_031_1	627928.167	1111552.438	70.511
15_031_2	627770.671	1111816.850	69.686
15_031_3	630010.920	1111654.122	71.172
15_031_4	630239.104	1111844.382	72.713
15_031_5	632337.948	1111537.660	74.968
15_031_6	632325.725	1111457.118	74.890
15_032_1	627460.376	1114328.856	71.457
15_032_2	627796.397	1114189.855	71.792
15_032_3	629725.338	1114361.113	74.802
15_032_4	629838.010	1114538.939	75.279
15_032_5	632228.341	1113960.323	72.039
15_032_6	632131.196	1114115.796	72.115
15_033_1	627434.837	1116795.789	78.371
15_033_2	627672.233	1116675.114	79.102
15_033_3	629851.301	1116875.869	79.415
15_033_4	629756.772	1116742.302	78.973
15_033_5	632201.302	1116733.207	72.521
15_033_6	632299.235	1116762.856	73.180
15_034_1	627361.450	1119261.564	76.533
15_034_2	627344.327	1119212.331	76.063
15_034_3	630181.158	1119490.770	77.693
15_034_4	630240.313	1119509.850	79.527
15_034_5	632069.653	1118911.362	77.311
15_034_6	632206.779	1118907.264	76.857
15_035_1	627599.200	1122113.147	76.112
15_035_2	627742.914	1122201.472	75.822
15_035_3	629946.280	1121690.838	85.350
15_035_4	630005.450	1121634.257	85.405
15_035_5	632105.566	1121861.722	84.681
15_035_6	632019.545	1121780.675	84.491
15_036_1	627597.896	1124581.383	79.090
15_036_2	627721.661	1124552.017	80.869
15_036_3	629932.580	1124300.895	86.255
15_036_4	630139.780	1124297.888	86.763
15_036_5	632417.570	1124284.797	86.294
15_036_6	632494.767	1124268.787	86.255



15_037_1	627697.156	1126954.143	79.469
15_037_2	627810.628	1126887.339	79.934
15_037_3	629866.492	1127150.178	85.702
15_037_4	630187.660	1126966.364	87.287
15_037_5	632253.540	1126721.219	80.034
15_037_6	632143.779	1126784.513	79.937
15_038_1	627552.079	1129579.215	75.063
15_038_2	627736.543	1129685.587	77.644
15_038_3	629462.891	1129428.107	82.116
15_038_4	629482.490	1129346.670	81.524
15_038_5	632315.912	1129679.761	81.890
15_038_6	632425.712	1129679.792	82.172
15_039_1	628244.234	1131976.131	76.370
15_039_2	628376.746	1132204.621	76.508
15_039_3	629863.781	1132079.702	83.233
15_039_4	630179.583	1132022.916	83.781
15_039_5	632127.337	1132063.093	87.822
15_039_6	632117.977	1131879.988	87.274
15_040_1	627507.570	1134681.863	77.510
15_040_2	627505.013	1134774.152	78.103
15_040_3	630110.037	1134785.542	82.912
15_040_4	630129.123	1134752.981	83.117
15_040_5	632465.707	1134263.113	85.406
15_040_6	632582.767	1134244.781	85.101
15_041_1	627540.769	1137214.672	86.564
15_041_2	627757.046	1137149.278	85.902
15_041_3	629634.484	1136975.467	82.801
15_041_4	629656.513	1137115.852	83.125
15_041_5	632679.504	1136745.418	82.550
15_041_6	632383.097	1136633.641	83.013
15_042_1	627460.901	1139695.986	76.140
15_042_2	627739.467	1139724.786	77.184
15_042_3	630499.806	1139483.575	80.815
15_042_4	630441.418	1139456.115	80.578
15_042_5	632389.986	1139377.401	92.247
15_042_6	632210.538	1139330.855	91.489
15_043_1	627832.727	1142466.976	79.941
15_043_2	627978.201	1142263.483	78.684
15_043_3	630005.073	1142370.301	83.933
15_043_4	630499.642	1142151.754	85.506
15_043_5	632191.173	1142153.153	92.546
15_043_6	632500.844	1142014.249	93.600
15_044_1	627323.565	1144639.433	94.733
15_044_2	627825.323	1145026.211	95.802

15_044_3	629946.980	1144582.178	98.213
15_044_4	630118.294	1144613.373	99.052
15_044_5	632264.758	1144650.193	97.048
15_044_6	632152.869	1144873.841	98.189
15_045_1	628145.689	1147280.790	101.961
15_045_2	628332.448	1147558.387	101.521
15_045_3	629688.518	1147296.388	101.965
15_045_4	630315.190	1146888.541	102.307
15_045_5	632250.910	1146957.685	104.098
15_045_6	632232.225	1146926.229	105.525
15_046_1	627642.925	1149815.900	105.845
15_046_2	627692.094	1149887.045	105.156
15_046_3	629944.299	1149624.816	108.827
15_046_4	630227.874	1149647.390	108.939
15_046_5	632133.256	1149529.476	108.260
15_046_6	632093.062	1149708.607	109.204
15_047_1	627673.995	1152483.184	108.901
15_047_2	627696.675	1152355.910	109.573
15_047_3	629892.789	1152109.026	110.023
15_047_4	630093.303	1152158.668	109.460
15_047_5	632328.525	1152040.969	109.739
15_047_6	632234.340	1151941.965	109.489
15_048_1	627663.431	1154860.795	113.368
15_048_2	627539.171	1154997.705	113.450
15_048_3	629921.484	1154744.044	110.911
15_048_4	629993.938	1154946.676	110.638
15_048_5	631977.187	1154557.271	112.838
15_048_6	632247.226	1154639.502	113.842
15_049_1	627661.997	1157389.565	116.449
15_049_2	627731.691	1157449.308	117.054
15_049_3	629933.325	1157063.902	115.474
15_049_4	630287.003	1157288.883	116.491
15_049_5	631971.625	1157195.064	112.239
15_049_6	631885.563	1157196.207	112.528
15_050_1	627589.703	1160020.445	113.544
15_050_2	627899.692	1160030.222	114.099
15_050_3	629990.161	1159779.691	115.067
15_050_4	630154.050	1159766.852	115.632
15_050_5	631882.237	1159639.574	116.236
15_050_6	632457.061	1159754.134	116.936
15_051_1	627571.631	1162490.629	115.497
15_051_2	627758.029	1162541.073	115.571
15_051_3	629839.092	1162355.696	114.325
15_051_4	630072.141	1162368.450	114.863



15_051_5	632265.479	1162241.076	113.270
15_051_6	632170.109	1162311.771	113.983
15_052_1	627526.168	1165201.331	112.618
15_052_2	627349.834	1165214.339	114.778
15_052_3	630090.658	1164831.373	112.366
15_052_4	630294.930	1165089.720	114.378
15_052_5	632286.914	1164741.490	112.025
15_052_6	632305.497	1164813.642	110.550
15_053_1	627601.444	1167531.606	109.483
15_053_2	627768.730	1167522.303	107.830
15_053_3	630065.320	1167295.802	112.816
15_053_4	630153.703	1167358.056	113.099
15_053_5	632213.751	1167209.070	111.301
15_053_6	632448.930	1167222.088	110.440
16_001_1	636584.459	1035699.081	38.903
16_001_2	636425.103	1035752.372	38.174
16_001_3	634480.355	1035731.138	38.760
16_001_4	634114.636	1035819.255	36.843
16_001_5	631864.755	1036147.932	34.607
16_001_6	631679.338	1035606.776	34.151
16_002_1	635728.985	1038072.096	37.292
16_002_2	635621.470	1038090.479	37.236
16_002_3	633975.854	1038088.069	38.142
16_002_4	633848.245	1038101.650	38.124
16_002_5	632111.248	1038567.886	35.632
16_002_6	632243.259	1038559.464	35.312
16_003_1	636617.999	1040842.319	38.565
16_003_2	636411.640	1040697.515	37.953
16_003_3	634594.114	1041013.037	35.488
16_003_4	634420.093	1040834.656	35.010
16_003_5	632210.550	1041216.691	37.264
16_003_6	631914.269	1041081.111	38.965
16_004_1	636529.027	1043481.295	41.459
16_004_2	636406.672	1043225.390	41.007
16_004_3	634192.055	1043560.016	40.795
16_004_4	634299.085	1043577.135	42.115
16_004_5	631827.500	1043338.111	42.088
16_004_6	631639.862	1043517.969	41.583
16_005_1	636585.953	1045831.009	44.164
16_005_2	636441.464	1045743.508	43.900
16_005_3	634185.605	1045796.004	43.518
16_005_4	633965.776	1045842.513	42.966
16_005_5	632146.385	1045883.712	42.350
16_005_6	632084.407	1045835.197	42.423



16_006_1	636263.414	1048266.478	44.644
16_006_2	636140.967	1048297.897	44.873
16_006_3	634330.588	1048619.065	43.024
16_006_4	633897.451	1048428.423	43.196
16_006_5	631841.711	1048870.420	44.090
16_006_6	631972.721	1048808.819	44.589
16_007_1	636688.951	1050804.707	44.308
16_007_2	636875.714	1050831.809	46.431
16_007_3	634377.069	1051025.034	44.196
16_007_4	633762.896	1051022.214	41.068
16_007_5	631473.615	1051156.434	40.091
16_007_6	631634.586	1050911.943	39.891
16_008_1	635455.289	1053358.366	44.303
16_008_2	635431.351	1053183.634	45.724
16_008_3	634279.225	1053600.278	44.505
16_008_4	633948.444	1053572.386	44.391
16_008_5	632372.087	1053744.235	45.886
16_008_6	631746.102	1053650.646	45.820
16_009_1	635753.104	1056203.225	46.516
16_009_2	635710.122	1056123.887	46.967
16_009_3	634474.770	1056015.181	42.025
16_009_4	634348.347	1055884.594	43.105
16_009_5	631680.666	1056497.429	42.406
16_009_6	631547.669	1056053.396	41.678
16_010_1	636475.165	1058517.872	49.511
16_010_2	636294.810	1058496.378	49.965
16_010_3	634314.406	1058753.785	50.694
16_010_4	634117.345	1058662.093	50.488
16_010_5	632177.840	1058835.321	51.048
16_010_6	632253.084	1058828.649	51.719
16_011_1	636691.866	1060949.450	53.256
16_011_2	636347.357	1061069.507	51.968
16_011_3	634371.352	1060947.402	51.400
16_011_4	634144.900	1060936.046	52.403
16_011_5	632045.788	1061231.079	48.688
16_011_6	632093.461	1061081.659	48.235
16_012_1	636411.364	1063612.764	51.670
16_012_2	636186.172	1063702.289	52.688
16_012_3	634306.218	1063425.325	54.373
16_012_4	634094.653	1063466.126	54.553
16_012_5	631797.301	1063648.892	51.145
16_012_6	631897.064	1063970.096	50.492
16_013_1	636744.118	1066107.336	56.362
16_013_2	636786.846	1066042.506	56.338



16_013_3	634200.763	1066265.113	58.533
16_013_4	634063.292	1066245.581	58.355
16_013_5	631885.108	1066448.757	58.270
16_013_6	631788.373	1066447.113	57.763
16_014_1	636682.754	1068680.973	60.122
16_014_2	636419.254	1068781.413	58.334
16_014_3	634352.664	1068672.783	61.823
16_014_4	633953.588	1068632.775	62.174
16_014_5	632058.780	1068806.313	59.725
16_014_6	631898.736	1068633.868	60.803
16_015_1	636570.672	1071134.012	65.353
16_015_2	636471.675	1071167.746	65.410
16_015_3	634355.457	1071205.724	61.265
16_015_4	634540.790	1071214.081	61.352
16_015_5	632375.666	1071670.795	61.647
16_015_6	631977.889	1071777.482	66.766
16_016_1	636624.765	1073657.851	65.366
16_016_2	636421.515	1073628.358	64.487
16_016_3	634176.942	1073704.080	69.285
16_016_4	634167.033	1073893.530	68.604
16_016_5	632671.760	1073681.787	68.358
16_016_6	632581.928	1073592.981	66.972
16_017_1	636181.785	1076305.493	66.498
16_017_2	636074.481	1076265.770	68.970
16_017_3	634451.371	1076254.725	69.335
16_017_4	634456.396	1076173.326	71.753
16_017_5	632166.771	1076386.632	69.501
16_017_6	632317.798	1076523.433	67.957
16_018_1	636549.028	1078810.126	69.850
16_018_2	636644.553	1078916.402	69.972
16_018_3	634347.894	1078926.649	73.192
16_018_4	634038.360	1079022.190	73.486
16_018_5	632166.408	1079053.356	75.220
16_018_6	632045.434	1079172.089	75.373
16_019_1	636473.890	1081630.173	78.557
16_019_2	636223.714	1081636.192	78.512
16_019_3	634473.512	1081370.725	76.933
16_019_4	634260.220	1081337.684	76.039
16_019_5	632064.074	1081542.804	74.691
16_019_6	631804.153	1081589.893	74.594
16_020_1	636637.312	1083950.909	80.930
16_020_2	636482.164	1083946.417	79.877
16_020_3	634474.827	1083990.475	77.046
16_020_4	634050.673	1083874.204	77.326



16_020_5	631955.848	1084325.556	76.561
16_020_6	631908.307	1084339.478	77.679
16_021_1	636628.741	1086466.101	83.352
16_021_2	636446.934	1086454.379	83.214
16_021_3	634295.089	1086502.429	80.670
16_021_4	634051.513	1086537.917	81.110
16_021_5	631886.949	1086639.529	79.350
16_021_6	631975.981	1086663.118	79.378
16_022_1	636575.595	1088853.733	77.215
16_022_2	636388.817	1088801.155	77.804
16_022_3	634195.571	1088934.617	80.791
16_022_4	634037.825	1088937.614	80.634
16_022_5	631866.258	1089163.380	78.451
16_022_6	632012.260	1089134.985	78.204
16_023_1	636695.338	1091373.611	77.505
16_023_2	636195.116	1091459.610	77.579
16_023_3	634439.198	1091726.557	80.445
16_023_4	634278.223	1091458.380	80.850
16_023_5	631879.288	1091737.191	77.119
16_023_6	632185.546	1091662.959	77.793
16_024_1	636712.122	1093846.772	76.032
16_024_2	636216.434	1093934.725	75.990
16_024_3	634417.578	1094286.999	75.252
16_024_4	634081.658	1094190.374	74.895
16_024_5	632065.728	1094082.857	76.257
16_024_6	631871.043	1094181.227	76.803
16_025_1	636388.921	1096501.230	79.380
16_025_2	636216.308	1096568.058	78.091
16_025_3	634217.169	1096703.080	75.146
16_025_4	633977.716	1096669.260	75.346
16_025_5	632198.003	1096990.070	71.971
16_025_6	631697.827	1096925.475	72.581
16_026_1	636536.283	1099001.008	79.185
16_026_2	636227.011	1098954.900	78.802
16_026_3	634406.751	1099277.421	77.806
16_026_4	634108.669	1099359.372	78.105
16_026_5	632004.862	1099355.139	75.111
16_026_6	631735.792	1099364.601	75.025
16_027_1	636707.025	1101488.440	83.925
16_027_2	636542.447	1101553.721	83.467
16_027_3	634422.256	1101838.781	74.801
16_027_4	634702.599	1101782.764	77.329
16_027_5	632274.853	1101645.969	75.879
16_027_6	631920.977	1101683.442	74.758



16_028_1	636806.262	1104226.815	75.092
16_028_2	636717.854	1104010.517	76.353
16_028_3	634224.166	1104120.236	83.353
16_028_4	634024.209	1104312.561	85.424
16_028_5	632073.904	1104388.652	87.764
16_028_6	632188.366	1104408.377	87.378
16_029_1	636649.255	1106674.333	77.879
16_029_2	636366.317	1106635.029	78.036
16_029_3	634312.791	1106780.190	77.592
16_029_4	634046.700	1106793.347	79.200
16_029_5	632075.590	1106852.267	85.722
16_029_6	631984.708	1106789.997	85.060
16_030_1	636827.129	1109213.151	81.573
16_030_2	636757.814	1109238.992	80.840
16_030_3	634263.295	1109442.499	77.323
16_030_4	634112.121	1109387.532	76.143
16_030_5	632178.194	1109175.970	79.888
16_030_6	632137.344	1109243.343	79.550
16_031_1	636693.701	1111813.355	81.671
16_031_2	636565.992	1111827.824	81.779
16_031_3	634435.567	1111769.610	81.200
16_031_4	634173.542	1111659.661	81.524
16_031_5	631938.576	1111894.329	75.064
16_031_6	632044.831	1111867.027	74.996
16_032_1	636693.598	1114369.209	80.229
16_032_2	636447.557	1114324.602	80.540
16_032_3	634440.058	1114270.204	75.439
16_032_4	634323.544	1114242.044	74.844
16_032_5	632003.862	1114460.815	73.462
16_032_6	632145.691	1114468.342	73.036
16_033_1	636624.018	1116876.555	75.214
16_033_2	636494.306	1116967.342	74.941
16_033_3	634496.517	1116777.700	71.868
16_033_4	634531.669	1116510.914	72.161
16_033_5	632047.942	1117224.073	77.088
16_033_6	632096.973	1116771.632	72.966
16_034_1	636727.536	1119623.113	73.308
16_034_2	636646.970	1119716.715	73.196
16_034_3	634208.666	1119294.034	74.548
16_034_4	634010.987	1119282.301	75.121
16_034_5	632118.557	1119437.883	76.318
16_034_6	632200.182	1119489.916	77.744
16_035_1	636604.121	1121712.988	77.417
16_035_2	636629.433	1121611.680	76.090



16_035_3	634084.449	1122028.178	80.187
16_035_4	634182.828	1122025.468	80.069
16_035_5	632139.932	1122095.310	83.830
16_035_6	631929.157	1122005.890	83.982
16_036_1	636694.110	1124453.179	79.920
16_036_2	636458.838	1124448.702	79.826
16_036_3	634667.661	1124676.387	79.121
16_036_4	634744.891	1124376.651	78.184
16_036_5	632091.291	1124314.158	86.120
16_036_6	632233.611	1124310.737	85.813
16_037_1	636473.255	1127095.573	76.138
16_037_2	636348.343	1126878.740	76.426
16_037_3	634428.475	1127179.388	80.090
16_037_4	634286.164	1127260.530	78.214
16_037_5	631998.596	1127153.357	84.706
16_037_6	631995.603	1126962.111	83.064
16_038_1	636623.010	1129582.998	79.422
16_038_2	636452.881	1129599.556	80.037
16_038_3	634247.276	1129599.973	83.573
16_038_4	634015.076	1129607.095	83.715
16_038_5	631848.390	1129790.576	81.153
16_038_6	631780.462	1129737.055	81.116
16_039_1	636508.766	1132115.685	84.381
16_039_2	636423.283	1132082.911	84.734
16_039_3	633556.724	1132118.750	90.780
16_039_4	633555.646	1132098.960	91.164
16_039_5	631745.312	1132214.254	86.420
16_039_6	631637.122	1132271.195	85.335
16_040_1	636702.289	1134318.198	86.113
16_040_2	636807.493	1134432.149	85.209
16_040_3	634474.074	1134940.024	87.262
16_040_4	634331.346	1134973.410	86.912
16_040_5	631953.871	1135030.123	84.704
16_040_6	631853.784	1135075.386	85.267
16_041_1	636742.432	1137026.155	88.879
16_041_2	636471.880	1137053.866	87.639
16_041_3	634316.479	1137286.619	85.611
16_041_4	634274.040	1137299.418	85.343
16_041_5	632470.727	1136626.538	83.371
16_041_6	632406.747	1136666.845	82.884
16_042_1	636000.817	1139745.675	94.294
16_042_2	635911.063	1139752.672	94.283
16_042_3	634531.675	1139717.471	95.211
16_042_4	634131.674	1139693.469	94.928

16_042_5	632464.928	1139478.941	92.138
16_042_6	632213.703	1139465.816	91.287
16_043_1	636670.744	1142089.537	99.921
16_043_2	636541.891	1142049.224	100.663
16_043_3	634404.440	1142248.849	98.353
16_043_4	633926.365	1142301.504	96.506
16_043_5	632257.863	1142305.317	92.522
16_043_6	632194.876	1142396.441	91.958
16_044_1	636954.239	1144788.351	103.185
16_044_2	636292.288	1144974.280	101.547
16_044_3	634535.157	1144605.083	97.643
16_044_4	634419.894	1145100.791	98.560
16_044_5	632031.487	1144892.021	98.995
16_044_6	632164.758	1144886.222	97.897
16_045_1	636649.749	1147149.283	108.267
16_045_2	636298.448	1147309.719	109.135
16_045_3	634199.488	1147374.705	109.916
16_045_4	634189.342	1147481.783	109.424
16_045_5	631837.670	1147442.290	106.454
16_045_6	631757.854	1147531.077	106.170
16_046_1	636296.112	1149540.900	108.073
16_046_2	636210.000	1149473.603	108.239
16_046_3	634139.262	1149709.861	108.465
16_046_4	633925.593	1149646.681	107.727
16_046_5	632086.937	1149711.943	109.374
16_046_6	631910.993	1149800.382	109.468
16_047_1	636672.057	1152290.908	113.385
16_047_2	636594.459	1152307.931	112.901
16_047_3	634140.810	1152674.079	109.940
16_047_4	633924.511	1152641.170	110.819
16_047_5	631991.283	1152510.920	110.798
16_047_6	632224.903	1152420.290	110.182
16_048_1	636608.936	1154973.421	111.010
16_048_2	636505.374	1154886.759	110.862
16_048_3	634274.785	1154941.174	115.067
16_048_4	634212.932	1154908.732	115.652
16_048_5	632012.694	1155107.161	113.375
16_048_6	632402.103	1155192.191	115.034
16_049_1	635056.432	1157275.250	106.974
16_049_2	635024.663	1157117.505	107.370
16_049_3	633353.632	1157799.064	113.623
16_049_4	633553.512	1157800.278	114.902
16_049_5	632331.171	1157538.903	113.577
16_049_6	632112.404	1157418.028	113.240



16_050_1	636703.503	1159943.099	107.846
16_050_2	636666.945	1159906.196	107.516
16_050_3	634644.904	1160228.148	107.584
16_050_4	634028.122	1160083.858	109.778
16_050_5	632073.170	1159986.838	126.276
16_050_6	632422.399	1159857.384	117.307
16_051_1	636846.885	1162225.387	135.490
16_051_2	636593.009	1162078.491	122.092
16_051_3	634464.282	1162561.580	116.748
16_051_4	634254.931	1162540.740	115.609
16_051_5	631990.126	1162570.205	114.578
16_051_6	631965.079	1162526.955	115.012
16_052_1	636519.786	1165308.849	130.769
16_052_2	636363.066	1164978.593	114.925
16_052_3	634429.831	1165180.418	115.668
16_052_4	634175.324	1165194.704	113.600
16_052_5	632226.218	1165332.863	110.444
16_052_6	632308.470	1165185.583	111.018
16_053_1	636713.297	1167555.892	101.977
16_053_2	636494.653	1167560.499	107.798
16_053_3	634029.573	1167674.051	108.470
16_053_4	634010.374	1167570.198	104.537
16_053_5	632089.835	1167647.111	110.051
16_053_6	632022.767	1167605.538	110.454
2_001_1	575198.056	1035616.765	28.903
2_001_2	574568.275	1035701.372	28.074
2_001_3	572554.428	1035674.906	30.025
2_001_4	572331.824	1035621.804	29.310
2_001_5	570241.302	1036126.046	28.902
2_001_6	570095.505	1036185.168	28.764
2_002_1	574945.953	1038245.713	29.268
2_002_2	574808.184	1038200.390	29.158
2_002_3	572611.914	1038312.653	28.635
2_002_4	572401.403	1038263.283	28.779
2_002_5	570323.341	1038657.078	30.136
2_002_6	570195.523	1038214.682	29.262
2_003_1	574976.652	1040548.726	29.784
2_003_2	574685.808	1040919.194	31.010
2_003_3	572556.036	1040679.469	30.869
2_003_4	572371.111	1040723.432	30.987
2_003_5	570431.470	1041022.461	30.950
2_003_6	570249.234	1041006.938	31.703
2_004_1	575046.009	1043308.914	29.970
2_004_2	574974.981	1043135.083	30.792



2_004_3	572637.878	1043349.852	29.255
2_004_4	572432.528	1043384.787	29.951
2_004_5	570726.596	1043549.854	31.723
2_004_6	570796.705	1043441.578	31.632
2_005_1	575136.337	1045834.657	32.869
2_005_2	575045.295	1045868.688	33.075
2_005_3	572665.210	1045915.940	29.837
2_005_4	572516.467	1045968.215	30.765
2_005_5	570328.328	1045997.784	30.972
2_005_6	570166.118	1045978.525	30.919
2_006_1	575058.089	1048259.275	33.037
2_006_2	574753.768	1048404.245	33.224
2_006_3	572579.608	1048517.023	32.716
2_006_4	572299.794	1048483.039	30.735
2_006_5	570365.104	1048563.263	31.248
2_006_6	570101.783	1048532.240	30.055
2_007_1	574987.280	1050932.717	32.843
2_007_2	574570.673	1051017.958	32.837
2_007_3	572609.510	1051017.642	31.875
2_007_4	572400.220	1051018.121	31.863
2_007_5	570275.578	1051179.540	31.275
2_007_6	569952.461	1051113.944	31.355
2_008_1	574912.304	1053490.795	33.792
2_008_2	574653.770	1053500.732	33.629
2_008_3	572557.568	1053556.853	31.540
2_008_4	572317.735	1053499.997	32.117
2_008_5	570005.209	1053589.021	29.529
2_008_6	569932.667	1053624.513	31.654
2_009_1	574940.421	1055987.466	35.433
2_009_2	574728.116	1056005.893	35.105
2_009_3	572713.422	1056006.316	31.523
2_009_4	572265.626	1055950.431	30.189
2_009_5	570253.064	1056243.878	26.323
2_009_6	570167.995	1056120.724	26.408
2_010_1	575032.493	1058566.064	36.241
2_010_2	574801.392	1058580.505	36.093
2_010_3	572648.757	1058674.948	34.579
2_010_4	572411.962	1058658.741	34.493
2_010_5	570223.314	1058639.334	25.019
2_010_6	570134.717	1058697.833	27.055
2_011_1	575147.632	1061064.467	36.346
2_011_2	574796.059	1061146.621	35.872
2_011_3	572504.175	1060949.810	30.055
2_011_4	572394.180	1061014.632	30.149



2_011_5	569844.480	1061174.401	21.051
2_011_6	569839.802	1061231.290	21.052
2_012_1	575061.480	1063626.517	32.869
2_012_2	574791.743	1063625.432	32.921
2_012_3	572663.794	1063572.653	29.671
2_012_4	572374.186	1063517.146	29.067
2_012_5	570271.496	1063816.144	22.053
2_012_6	569933.346	1063579.702	22.708
2_013_1	574829.238	1065982.684	25.740
2_013_2	574718.604	1066007.595	25.799
2_013_3	572603.638	1066154.419	23.022
2_013_4	572378.396	1066114.924	23.261
2_013_5	570331.563	1066196.131	21.075
2_013_6	570201.211	1066148.478	20.784
2_014_1	575027.241	1068535.648	23.013
2_014_2	574674.362	1068426.790	23.534
2_014_3	572626.099	1068920.555	21.930
2_014_4	572226.742	1068686.177	20.652
2_014_5	570653.328	1068686.274	18.989
2_014_6	570787.567	1068681.775	18.631
2_015_1	575030.044	1071194.922	24.077
2_015_2	574681.722	1071267.480	22.773
2_015_3	572760.920	1071292.675	20.888
2_015_4	572618.241	1071204.043	19.692
2_015_5	570212.869	1071455.564	12.571
2_015_6	569960.647	1071361.410	12.137
2_016_1	574594.470	1073415.645	15.741
2_016_2	574637.722	1073975.063	19.874
2_016_3	572823.277	1074206.974	13.660
2_016_4	572053.194	1073959.416	14.178
2_016_5	570364.984	1073906.493	15.842
2_016_6	570171.214	1074031.439	13.939
2_017_1	574470.733	1076354.511	14.702
2_017_2	574481.121	1076157.263	14.728
2_017_3	572629.370	1076352.252	13.634
2_017_4	572352.773	1076277.300	13.121
2_017_5	570054.773	1076241.353	15.246
2_017_6	570180.705	1076179.457	15.752
2_018_1	575059.152	1078730.186	15.316
2_018_2	574870.092	1078707.324	15.229
2_018_3	572773.438	1078872.335	14.489
2_018_4	572521.097	1078899.657	14.816
2_018_5	570497.824	1078639.161	22.256
2_018_6	570089.792	1078629.965	22.271

2_019_1	575148.690	1081269.069	13.965
2_019_2	574941.120	1081359.457	13.639
2_019_3	572368.565	1081226.744	26.826
2_019_4	572103.099	1081418.152	27.467
2_019_5	570488.041	1081435.262	37.011
2_019_6	570559.256	1081582.799	39.555
2_020_1	575198.112	1083856.504	15.241
2_020_2	574986.837	1083777.006	15.230
2_020_3	572696.790	1083955.134	27.434
2_020_4	572352.896	1083951.045	26.067
2_020_5	570321.861	1084101.716	49.263
2_020_6	570301.381	1083948.709	48.890
2_021_1	575077.947	1086368.761	27.345
2_021_2	574672.071	1086422.802	35.454
2_021_3	572714.561	1086244.518	39.020
2_021_4	572627.812	1086319.531	37.972
2_021_5	570309.205	1086558.674	37.170
2_021_6	570696.136	1086399.549	37.832
2_022_1	575200.207	1089057.235	38.647
2_022_2	574773.394	1089072.304	39.461
2_022_3	572961.536	1089068.570	49.593
2_022_4	572438.968	1089139.260	46.806
2_022_5	570410.520	1088709.719	45.517
2_022_6	569956.278	1088881.304	48.542
2_023_1	575088.522	1091640.878	47.598
2_023_2	574739.405	1091428.022	48.147
2_023_3	572610.648	1091600.169	50.455
2_023_4	572288.383	1091772.836	50.714
2_023_5	570302.146	1091552.470	52.771
2_023_6	570256.593	1091477.023	52.802
2_024_1	574937.170	1093863.062	52.538
2_024_2	574826.525	1093891.891	52.584
2_024_3	572767.979	1094181.572	54.260
2_024_4	572698.711	1094109.876	54.324
2_024_5	570215.673	1094313.076	59.051
2_024_6	570262.663	1094146.882	58.959
2_025_1	574753.906	1096562.075	68.423
2_025_2	574536.550	1096536.064	67.133
2_025_3	572481.837	1096708.451	64.550
2_025_4	572834.067	1096635.550	64.833
2_025_5	570210.824	1096770.720	64.717
2_025_6	570405.985	1096696.200	64.555
2_026_1	574989.211	1099040.336	94.914
2_026_2	574671.721	1099144.460	95.452

2_026_3	572666.207	1099145.907	80.815
2_026_4	572435.736	1099106.111	79.255
2_026_5	570212.995	1099208.248	68.501
2_026_6	570094.804	1099177.307	67.889
2_027_1	574860.220	1101613.581	91.648
2_027_2	574561.072	1101496.203	93.406
2_027_3	572600.008	1101632.840	79.643
2_027_4	572512.250	1101610.667	79.310
2_027_5	570259.373	1101636.443	82.450
2_027_6	570136.977	1101500.084	82.922
2_028_1	574993.175	1104069.186	59.737
2_028_2	574719.911	1104132.756	59.484
2_028_3	572409.444	1104143.731	79.153
2_028_4	572245.900	1104128.935	80.374
2_028_5	570320.988	1104428.566	90.721
2_028_6	570093.841	1104282.431	91.185
2_029_1	574993.754	1106686.269	65.411
2_029_2	574738.133	1106743.465	66.520
2_029_3	572698.964	1106864.631	75.012
2_029_4	572425.209	1106833.877	77.084
2_029_5	570260.316	1106975.364	92.749
2_029_6	570296.895	1106829.338	92.919
2_030_1	574951.993	1109083.725	69.862
2_030_2	574413.357	1109124.488	69.076
2_030_3	572570.039	1109355.692	67.938
2_030_4	572318.783	1109280.624	69.057
2_030_5	570414.938	1109151.545	86.270
2_030_6	570277.536	1109078.138	89.231
2_031_1	574934.396	1111628.139	64.008
2_031_2	574729.254	1111718.185	64.025
2_031_3	572484.915	1111900.009	77.668
2_031_4	572336.084	1111905.477	78.093
2_031_5	570467.371	1112026.012	85.865
2_031_6	570479.091	1111886.384	85.888
2_032_1	574849.869	1114142.607	64.288
2_032_2	574583.259	1114097.986	65.930
2_032_3	572557.402	1114419.421	81.309
2_032_4	572364.866	1114399.297	81.651
2_032_5	570405.221	1114547.087	93.407
2_032_6	570198.627	1114564.953	94.559
2_033_1	574926.237	1117020.033	80.749
2_033_2	574706.961	1116879.738	81.464
2_033_3	572639.437	1116964.386	91.354
2_033_4	572503.470	1116870.934	92.338



2_033_5	570373.188	1117039.897	100.095
2_033_6	570341.967	1116883.397	99.191
2_034_1	575079.912	1119318.193	80.747
2_034_2	574707.710	1119223.561	84.128
2_034_3	572773.278	1119462.926	91.495
2_034_4	572435.310	1119381.878	94.518
2_034_5	570651.216	1119584.439	96.903
2_034_6	570414.940	1119551.617	97.192
2_035_1	575035.235	1121875.587	83.347
2_035_2	574812.622	1121955.702	83.188
2_035_3	572542.116	1121999.549	93.182
2_035_4	572416.015	1122017.684	94.458
2_035_5	570341.769	1122036.929	98.929
2_035_6	570217.455	1121994.567	98.683
2_036_1	574994.676	1124580.000	86.579
2_036_2	575063.566	1124674.488	89.302
2_036_3	572337.699	1124550.093	97.975
2_036_4	572222.403	1124499.321	97.960
2_036_5	570486.605	1124511.796	99.096
2_036_6	570325.096	1124499.071	99.942
2_037_1	574925.729	1127046.413	97.640
2_037_2	574706.944	1126910.405	97.604
2_037_3	572536.662	1127123.722	99.669
2_037_4	572336.474	1127117.456	99.955
2_037_5	570373.019	1127189.318	97.048
2_037_6	570351.061	1126923.659	97.179
2_038_1	574470.014	1129658.865	89.525
2_038_2	574085.578	1129394.530	93.718
2_038_3	572941.730	1129562.201	98.009
2_038_4	572913.304	1129310.570	96.510
2_038_5	570015.147	1129846.753	97.637
2_038_6	570006.664	1129511.396	97.356
2_039_1	574122.965	1131921.221	95.166
2_039_2	574048.256	1131992.201	95.397
2_039_3	572528.107	1131905.410	94.008
2_039_4	572367.134	1131913.232	94.689
2_039_5	570187.358	1132315.137	92.204
2_039_6	570023.592	1132319.279	91.917
2_040_1	574938.057	1134501.966	85.855
2_040_2	574719.635	1134702.101	85.657
2_040_3	572592.838	1134720.590	77.799
2_040_4	572317.089	1134626.900	82.352
2_040_5	570173.703	1134808.291	81.071
2_040_6	570130.874	1134745.948	81.236



2_041_1	574575.111	1136877.040	73.285
2_041_2	574489.766	1137105.904	73.847
2_041_3	572591.440	1137255.402	62.376
2_041_4	572269.872	1137089.373	65.927
2_041_5	570317.830	1137356.373	59.796
2_041_6	570333.132	1137328.628	59.626
2_042_1	574880.370	1139812.175	54.928
2_042_2	574825.965	1139834.617	55.449
2_042_3	572499.878	1139531.381	38.488
2_042_4	572279.041	1139522.620	39.725
2_042_5	569907.471	1139994.720	40.043
2_042_6	569857.895	1139987.642	39.896
2_043_1	574872.985	1142366.984	91.666
2_043_2	574703.118	1142371.490	91.654
2_043_3	572267.142	1142459.711	73.977
2_043_4	572877.800	1142508.346	79.323
2_043_5	570434.937	1142207.252	71.200
2_043_6	570371.183	1142202.690	70.826
2_044_1	573904.843	1144660.069	93.762
2_044_2	573905.489	1144503.197	93.712
2_044_3	572834.044	1144936.471	88.011
2_044_4	572837.092	1144687.352	87.845
2_044_5	570374.928	1145025.195	77.788
2_044_6	570380.274	1144953.518	77.563
2_045_1	574869.169	1147193.867	91.219
2_045_2	574745.719	1147203.430	91.438
2_045_3	572646.949	1147174.766	85.763
2_045_4	572396.685	1147177.045	84.755
2_045_5	570364.346	1147429.850	80.180
2_045_6	570274.963	1147164.828	78.649
2_046_1	575082.384	1149750.701	83.127
2_046_2	574893.224	1149689.500	81.503
2_046_3	572759.758	1149884.653	75.160
2_046_4	572459.155	1149924.012	75.650
2_046_5	570075.412	1149957.055	73.742
2_046_6	570084.357	1149839.199	72.052
2_047_1	574902.027	1152321.241	95.060
2_047_2	574825.883	1152371.655	94.815
2_047_3	572660.039	1152478.681	88.451
2_047_4	572611.750	1152385.465	88.592
2_047_5	570411.596	1152342.057	76.388
2_047_6	570033.319	1152284.042	76.290
2_048_1	574934.326	1154916.891	92.816
2_048_2	574805.611	1154896.117	92.345



2_048_3	572703.930	1155076.500	94.022
2_048_4	572624.987	1154977.922	93.301
2_048_5	570459.950	1155027.145	92.385
2_048_6	570244.210	1155024.566	91.089
2_049_1	575022.229	1157345.506	101.273
2_049_2	574835.304	1157400.352	101.619
2_049_3	572655.092	1157454.025	102.865
2_049_4	572476.044	1157452.429	103.160
2_049_5	570374.738	1157550.887	93.849
2_049_6	570295.100	1157446.111	94.078
2_050_1	575189.257	1159930.020	97.755
2_050_2	574945.028	1159889.142	95.207
2_050_3	572710.130	1160042.566	89.405
2_050_4	572502.105	1159936.401	90.818
2_050_5	570469.939	1160083.597	76.591
2_050_6	570356.541	1160042.039	77.489
2_051_1	574963.128	1162767.656	95.186
2_051_2	575157.697	1162571.636	94.342
2_051_3	572681.127	1162733.970	81.896
2_051_4	572648.646	1162595.516	81.090
2_051_5	570359.143	1162618.836	86.484
2_051_6	570199.703	1162614.409	85.966
2_052_1	574987.452	1165136.739	104.313
2_052_2	574825.828	1165221.907	102.332
2_052_3	572842.628	1165405.942	85.547
2_052_4	572434.703	1165321.542	92.434
2_052_5	570348.377	1165255.439	96.919
2_052_6	570203.623	1165171.253	95.408
2_053_1	574927.796	1167891.847	101.744
2_053_2	574758.764	1167778.260	101.717
2_053_3	572629.693	1167718.710	104.503
2_053_4	572416.050	1167712.712	104.875
2_053_5	570266.999	1167652.518	97.843
2_053_6	570104.728	1167648.061	97.041
3_001_1	574436.364	1035563.378	27.731
3_001_2	574603.179	1035568.152	28.078
3_001_3	576807.969	1035621.596	27.735
3_001_4	577026.878	1035626.902	27.515
3_001_5	579198.520	1035679.632	29.847
3_001_6	579384.531	1035691.595	31.770
3_002_1	574513.953	1038087.038	28.530
3_002_2	574541.037	1038091.215	28.843
3_002_3	576595.164	1038122.680	31.147
3_002_4	577038.663	1038135.331	30.357



3_002_5	579225.924	1038266.313	29.536
3_002_6	579303.537	1038218.998	29.531
3_003_1	574427.003	1040745.720	30.647
3_003_2	574697.491	1040538.405	29.604
3_003_3	576748.095	1040841.878	32.036
3_003_4	576998.663	1040761.652	32.344
3_003_5	579193.932	1040686.656	30.822
3_003_6	579387.528	1040790.822	30.916
3_004_1	574628.149	1043324.415	31.445
3_004_2	574675.139	1043377.108	31.348
3_004_3	576867.652	1043031.969	30.155
3_004_4	577060.275	1043286.462	31.778
3_004_5	579486.106	1043256.569	31.384
3_004_6	579238.192	1043410.515	32.280
3_005_1	574394.854	1045777.543	31.238
3_005_2	574693.302	1045773.728	32.491
3_005_3	576788.288	1045743.345	31.925
3_005_4	576922.783	1045794.927	31.880
3_005_5	579198.190	1045839.078	32.827
3_005_6	579260.902	1045838.427	33.186
3_006_1	574299.492	1048428.187	34.076
3_006_2	574742.059	1048405.582	33.220
3_006_3	576808.148	1048319.950	31.696
3_006_4	576982.199	1048309.697	31.884
3_006_5	579283.298	1048315.225	32.774
3_006_6	579284.079	1048519.262	33.815
3_007_1	574589.291	1050798.263	33.837
3_007_2	574745.451	1050828.640	33.908
3_007_3	576760.504	1050730.401	33.054
3_007_4	577043.899	1050757.910	33.319
3_007_5	579111.538	1050849.931	35.103
3_007_6	579244.312	1050789.754	35.134
3_008_1	574382.096	1053308.121	33.527
3_008_2	574727.527	1053316.180	34.100
3_008_3	576709.724	1053265.751	33.196
3_008_4	577031.528	1053246.035	32.847
3_008_5	579178.449	1053270.398	33.926
3_008_6	579261.259	1053524.151	33.616
3_009_1	574432.767	1055994.403	34.552
3_009_2	574714.063	1055946.743	35.355
3_009_3	576785.673	1055863.604	34.670
3_009_4	577017.974	1055974.198	35.988
3_009_5	579183.847	1055959.530	35.888
3_009_6	579188.434	1056125.465	33.438



3_010_1	574434.774	1058623.682	36.353
3_010_2	574683.598	1058618.626	36.094
3_010_3	576688.328	1058421.025	36.697
3_010_4	577058.475	1058391.747	36.358
3_010_5	579269.842	1058422.794	28.616
3_010_6	579421.487	1058423.683	28.526
3_011_1	574519.051	1061023.790	36.373
3_011_2	574799.529	1061174.614	35.680
3_011_3	576712.339	1061060.052	36.621
3_011_4	576966.679	1061133.940	37.473
3_011_5	579255.003	1060957.241	36.128
3_011_6	579298.624	1061015.506	36.245
3_012_1	574581.178	1063471.866	33.365
3_012_2	574701.497	1063609.544	33.104
3_012_3	576829.706	1063489.908	34.715
3_012_4	577150.228	1063531.105	35.381
3_012_5	579117.221	1063480.533	34.121
3_012_6	579513.939	1063531.169	33.554
3_013_1	574546.521	1066155.852	25.124
3_013_2	574832.931	1066095.659	25.911
3_013_3	576839.196	1065934.133	31.958
3_013_4	577077.194	1065953.462	32.076
3_013_5	578834.194	1065983.777	26.730
3_013_6	578658.107	1066031.755	27.101
3_014_1	574418.687	1068577.477	21.602
3_014_2	574648.755	1068715.358	21.960
3_014_3	576904.676	1068539.672	21.564
3_014_4	577076.500	1068541.410	21.282
3_014_5	579254.342	1068609.940	32.075
3_014_6	579098.780	1068656.387	32.100
3_015_1	574584.891	1071243.187	23.255
3_015_2	574748.496	1071198.919	23.756
3_015_3	576875.913	1070947.967	17.982
3_015_4	576402.916	1071013.295	20.917
3_015_5	578951.742	1071093.464	21.926
3_015_6	579417.981	1071157.055	22.342
3_016_1	574541.892	1073403.337	16.568
3_016_2	574568.278	1073386.076	16.344
3_016_3	577187.187	1073795.300	18.392
3_016_4	577289.511	1074063.436	18.861
3_016_5	579212.477	1073414.897	20.248
3_016_6	579558.829	1073756.325	22.687
3_017_1	574463.849	1076357.455	14.559
3_017_2	574467.057	1076216.266	14.810



3_017_3	576534.210	1076579.475	18.047
3_017_4	577615.588	1076487.451	20.240
3_017_5	579191.847	1076251.398	18.229
3_017_6	579175.012	1076353.872	17.698
3_018_1	574553.466	1078709.435	14.299
3_018_2	574704.155	1078730.834	14.813
3_018_3	576799.280	1078706.787	21.930
3_018_4	576974.499	1078662.679	17.757
3_018_5	579016.283	1078734.059	18.819
3_018_6	578898.148	1078845.384	20.079
3_019_1	574413.089	1081446.836	15.065
3_019_2	574468.283	1081483.734	14.728
3_019_3	576674.592	1080954.751	15.217
3_019_4	577298.371	1081110.309	15.160
3_019_5	579085.358	1081531.918	15.374
3_019_6	579033.183	1081719.364	15.692
3_020_1	574823.301	1083719.340	15.600
3_020_2	574969.258	1083721.919	15.046
3_020_3	576660.941	1083682.057	15.090
3_020_4	576997.606	1083669.647	16.102
3_020_5	577752.221	1083796.881	15.659
3_020_6	577996.049	1084125.213	16.018
3_021_1	574581.093	1086400.748	35.738
3_021_2	575000.354	1086562.378	29.805
3_021_3	576777.395	1086175.079	15.163
3_021_4	577030.667	1086127.732	15.175
3_021_5	578548.824	1085960.869	15.517
3_021_6	578434.824	1085954.610	15.323
3_022_1	574742.133	1089073.397	40.322
3_022_2	574762.282	1089003.215	40.170
3_022_3	577072.776	1088962.263	12.248
3_022_4	577226.012	1088959.558	11.914
3_022_5	579406.363	1089242.795	12.575
3_022_6	579628.003	1088952.991	15.603
3_023_1	574371.495	1091395.971	49.669
3_023_2	574887.268	1091543.929	47.870
3_023_3	576720.962	1091337.021	32.478
3_023_4	576945.401	1091404.650	26.592
3_023_5	579063.687	1091546.472	12.921
3_023_6	579232.816	1091600.346	12.868
3_024_1	574320.055	1093854.310	53.663
3_024_2	574579.537	1093944.241	53.406
3_024_3	576752.359	1093911.755	47.278
3_024_4	577089.852	1093945.457	43.422

3_024_5	579154.788	1094011.281	27.678
3_024_6	579318.171	1094043.445	28.792
3_025_1	574503.500	1096521.329	66.944
3_025_2	574682.183	1096384.409	66.277
3_025_3	576745.404	1096427.639	64.319
3_025_4	576893.903	1096430.040	64.346
3_025_5	578924.332	1096548.198	65.144
3_025_6	579354.623	1096621.317	67.650
3_026_1	574238.981	1098893.817	91.906
3_026_2	574578.953	1098905.053	95.036
3_026_3	576507.075	1099002.550	93.754
3_026_4	577233.736	1099118.173	94.815
3_026_5	579036.702	1099064.963	93.654
3_026_6	579101.302	1099155.028	94.658
3_027_1	574541.948	1101507.661	93.260
3_027_2	574675.917	1101467.029	97.750
3_027_3	576981.898	1101462.746	77.736
3_027_4	576870.169	1101712.326	76.133
3_027_5	579320.067	1101538.896	82.941
3_027_6	579340.303	1101706.108	82.626
3_028_1	574496.491	1104157.818	59.619
3_028_2	574716.555	1104126.272	59.423
3_028_3	576807.542	1104008.891	62.612
3_028_4	576989.431	1104073.576	63.272
3_028_5	579168.707	1104150.573	69.160
3_028_6	579332.774	1104091.678	69.072
3_029_1	574532.588	1106621.676	67.483
3_029_2	574751.191	1106630.006	66.834
3_029_3	576913.707	1106624.245	59.956
3_029_4	577115.204	1106620.464	58.829
3_029_5	579229.735	1106513.865	65.484
3_029_6	579335.994	1106567.224	66.109
3_030_1	574392.898	1109134.705	68.896
3_030_2	574930.179	1109099.956	70.286
3_030_3	576792.333	1109019.578	65.375
3_030_4	577040.380	1109169.241	64.906
3_030_5	579108.988	1109351.447	67.731
3_030_6	579404.478	1109231.298	67.490
3_031_1	574583.686	1111717.563	64.435
3_031_2	574769.407	1111678.190	64.238
3_031_3	576819.404	1111582.771	64.308
3_031_4	577019.877	1111608.191	64.405
3_031_5	579165.558	1111705.199	65.018
3_031_6	579211.983	1111631.157	65.018



3_032_1	574561.132	1114151.762	66.595
3_032_2	574842.765	1114233.642	65.910
3_032_3	576689.430	1114216.980	63.981
3_032_4	577085.025	1114125.665	63.867
3_032_5	579036.312	1114233.199	68.697
3_032_6	579146.973	1114334.546	68.867
3_033_1	574416.892	1116776.911	81.082
3_033_2	574650.064	1116752.768	80.578
3_033_3	576940.239	1116680.764	69.277
3_033_4	576761.182	1116738.577	68.672
3_033_5	579264.338	1116780.704	68.028
3_033_6	579333.088	1116949.104	68.408
3_034_1	574557.024	1119479.962	84.074
3_034_2	574707.471	1119482.381	83.819
3_034_3	576825.998	1119272.201	75.998
3_034_4	576713.240	1119411.100	76.372
3_034_5	579014.944	1119280.031	75.338
3_034_6	579343.888	1119354.053	75.608
3_035_1	574583.279	1121892.411	83.592
3_035_2	574757.720	1121962.115	83.174
3_035_3	576918.012	1121794.180	79.711
3_035_4	577073.115	1121853.819	79.878
3_035_5	579153.233	1121710.424	77.854
3_035_6	579201.058	1121896.657	86.520
3_036_1	574340.149	1124388.138	91.101
3_036_2	574406.273	1124209.057	89.531
3_036_3	577008.348	1124381.886	88.357
3_036_4	577247.963	1124463.672	90.043
3_036_5	579707.960	1124405.195	91.895
3_036_6	579474.522	1124319.087	93.418
3_037_1	574484.367	1126873.635	97.850
3_037_2	574707.495	1126840.122	97.367
3_037_3	576927.248	1126997.271	96.321
3_037_4	577123.231	1127050.728	96.829
3_037_5	579203.974	1126935.947	93.906
3_037_6	579314.691	1127029.743	95.520
3_038_1	574428.792	1129697.030	93.455
3_038_2	575294.856	1129574.401	91.162
3_038_3	577450.075	1129373.306	95.419
3_038_4	577498.104	1129385.524	95.163
3_038_5	579020.102	1129488.428	92.922
3_038_6	579135.455	1129567.444	92.649
3_039_1	574313.928	1131751.839	95.557
3_039_2	574476.814	1131559.700	95.042

3_039_3	576932.166	1131926.188	79.786
3_039_4	577098.255	1131947.437	80.707
3_039_5	579509.111	1131824.156	91.482
3_039_6	579026.899	1131995.737	91.099
3_040_1	574722.461	1134509.834	85.408
3_040_2	574721.638	1134639.785	85.538
3_040_3	576752.988	1134394.973	73.923
3_040_4	577075.848	1134436.557	71.423
3_040_5	579111.362	1134536.932	75.702
3_040_6	579412.944	1134565.977	75.330
3_041_1	574559.229	1136873.570	72.892
3_041_2	574475.341	1137106.621	73.828
3_041_3	576017.759	1137142.227	45.718
3_041_4	576014.005	1137113.717	46.339
3_041_5	579221.613	1137068.886	45.700
3_041_6	579533.465	1137303.163	46.006
3_042_1	574493.127	1139526.082	48.352
3_042_2	574744.212	1139487.384	48.669
3_042_3	576926.538	1139595.014	75.210
3_042_4	577239.645	1139460.771	74.795
3_042_5	579239.315	1139547.237	76.124
3_042_6	579266.195	1139815.572	76.892
3_043_1	574666.068	1142370.121	91.625
3_043_2	574787.951	1142371.713	91.883
3_043_3	576518.234	1142225.051	86.932
3_043_4	577434.184	1142075.615	90.826
3_043_5	579135.525	1141889.976	97.769
3_043_6	579165.774	1142096.677	98.538
3_044_1	574444.850	1144989.298	94.784
3_044_2	574874.848	1144979.433	96.375
3_044_3	576878.351	1144540.039	99.311
3_044_4	577062.435	1144556.390	99.615
3_044_5	579182.079	1144593.261	100.813
3_044_6	579186.258	1144551.764	100.734
3_045_1	574746.210	1147183.570	91.499
3_045_2	574780.769	1147233.457	92.575
3_045_3	577008.219	1147229.082	95.243
3_045_4	577302.036	1147118.434	95.919
3_045_5	579150.872	1147049.012	98.228
3_045_6	579047.250	1147028.536	98.108
3_046_1	574481.195	1149951.943	79.210
3_046_2	574585.141	1149934.737	79.411
3_046_3	576800.902	1149738.169	92.393
3_046_4	577065.416	1149839.878	93.583

3_046_5	579146.470	1149688.414	97.851
3_046_6	579267.334	1149865.014	96.543
3_047_1	574500.067	1152273.788	92.760
3_047_2	574693.940	1152323.954	93.377
3_047_3	576697.158	1152365.189	91.693
3_047_4	577056.415	1152230.247	92.915
3_047_5	579226.485	1152334.915	101.312
3_047_6	579392.986	1152275.437	101.853
3_048_1	574366.475	1154877.236	90.244
3_048_2	574704.102	1154911.087	92.044
3_048_3	576775.419	1154745.487	97.559
3_048_4	576963.044	1154738.448	98.245
3_048_5	579118.958	1154762.371	100.547
3_048_6	579329.200	1154738.619	100.733
3_049_1	574546.506	1157229.468	101.086
3_049_2	574736.958	1157235.001	101.222
3_049_3	576914.360	1157281.342	101.235
3_049_4	577095.930	1157310.067	101.752
3_049_5	579219.738	1157225.670	103.076
3_049_6	579437.183	1157333.200	103.505
3_050_1	574588.352	1159863.028	95.939
3_050_2	574760.876	1159796.069	95.735
3_050_3	576847.533	1159728.718	105.691
3_050_4	577092.190	1159770.690	106.536
3_050_5	579190.292	1159780.478	109.929
3_050_6	579247.321	1159872.985	109.987
3_051_1	574724.607	1162293.111	92.389
3_051_2	574887.659	1162366.997	93.298
3_051_3	576872.428	1162319.294	104.521
3_051_4	577091.438	1162326.995	105.891
3_051_5	579045.983	1162280.940	114.573
3_051_6	579326.017	1162285.859	115.240
3_052_1	574428.365	1165030.632	101.093
3_052_2	574805.838	1165074.495	103.786
3_052_3	576880.083	1164810.198	113.819
3_052_4	576809.555	1164822.188	113.740
3_052_5	579228.956	1164607.079	115.839
3_052_6	578815.961	1164673.907	116.255
3_053_1	574596.962	1167647.008	102.859
3_053_2	574740.022	1167776.410	102.021
3_053_3	576954.133	1167382.877	109.696
3_053_4	577133.019	1167507.544	111.708
3_053_5	579160.625	1167358.408	115.658
3_053_6	579283.199	1167570.587	117.753



4_001_1	583895.815	1035914.723	29.308
4_001_2	583730.212	1035898.122	29.077
4_001_3	581566.143	1035917.664	30.185
4_001_4	581328.466	1035914.940	30.958
4_001_5	579138.798	1035890.163	31.513
4_001_6	578976.199	1035890.365	30.166
4_002_1	584031.635	1038177.525	29.272
4_002_2	583743.726	1038245.464	29.785
4_002_3	581599.952	1038421.397	31.696
4_002_4	581306.955	1038340.816	32.009
4_002_5	579097.004	1038374.402	29.645
4_002_6	579045.662	1038368.387	29.495
4_003_1	583922.215	1040911.538	30.184
4_003_2	583587.593	1040792.849	31.640
4_003_3	581571.242	1040845.629	30.587
4_003_4	581336.499	1040937.070	30.102
4_003_5	579398.821	1040964.952	31.026
4_003_6	579309.617	1040934.006	30.981
4_004_1	584088.224	1043295.900	30.323
4_004_2	583651.301	1043256.266	32.593
4_004_3	581493.737	1043369.678	32.377
4_004_4	581401.362	1043332.798	31.708
4_004_5	579212.139	1043395.994	32.759
4_004_6	579035.431	1043221.130	32.662
4_005_1	584022.567	1045696.055	32.288
4_005_2	583745.135	1045882.761	32.325
4_005_3	581497.514	1045947.628	32.886
4_005_4	581432.154	1045804.508	32.026
4_005_5	579134.517	1045734.828	33.055
4_005_6	579010.979	1045745.383	33.116
4_006_1	583980.179	1048429.299	33.794
4_006_2	583606.121	1048448.230	33.488
4_006_3	581483.247	1048457.523	32.331
4_006_4	581224.474	1048416.981	33.694
4_006_5	579078.166	1048446.001	33.724
4_006_6	578999.970	1048357.900	33.586
4_007_1	583730.034	1051125.142	35.238
4_007_2	583544.570	1050991.807	34.205
4_007_3	581397.633	1051096.999	31.882
4_007_4	581064.560	1050935.546	32.453
4_007_5	579109.420	1051021.794	35.631
4_007_6	579110.987	1050840.899	34.958
4_008_1	583915.238	1053502.333	36.242
4_008_2	583702.727	1053370.707	36.328



4_008_3	581437.805	1053572.405	33.871
4_008_4	581310.773	1053568.413	34.113
4_008_5	579038.650	1053706.005	34.789
4_008_6	579002.443	1053618.662	34.337
4_009_1	584180.249	1056119.194	33.274
4_009_2	583631.553	1056144.634	35.666
4_009_3	581551.139	1056066.702	34.441
4_009_4	581284.997	1056126.054	33.849
4_009_5	579192.215	1056210.570	32.871
4_009_6	578955.640	1056224.665	35.714
4_010_1	583790.636	1058470.447	34.149
4_010_2	583461.747	1058471.123	34.213
4_010_3	581411.624	1058390.996	28.780
4_010_4	581158.711	1058507.917	28.507
4_010_5	579251.539	1058935.858	29.339
4_010_6	579605.802	1058438.374	28.743
4_011_1	583826.387	1061046.453	36.915
4_011_2	583721.724	1061040.990	36.645
4_011_3	581697.873	1060968.817	30.137
4_011_4	581550.784	1060934.545	30.442
4_011_5	579381.056	1061157.171	35.978
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4_012_1	583695.242	1063728.431	40.617
4_012_2	583585.183	1063792.499	40.403
4_012_3	581565.478	1063741.933	34.213
4_012_4	581310.127	1063575.152	34.042
4_012_5	579037.821	1063670.786	34.028
4_012_6	579038.531	1063477.086	34.353
4_013_1	583654.790	1066279.256	33.159
4_013_2	583529.362	1066223.017	33.657
4_013_3	581306.691	1066315.070	26.606
4_013_4	581112.696	1066367.188	28.339
4_013_5	578801.640	1066199.449	27.041
4_013_6	578745.941	1066023.659	27.047
4_014_1	583659.840	1068828.861	34.472
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4_014_3	581563.875	1068801.752	28.282
4_014_4	580695.242	1068778.928	28.150
4_014_5	579024.185	1068771.699	32.053
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4_015_1	583538.845	1071193.727	31.271
4_015_2	583279.841	1071185.183	30.060
4_015_3	581405.513	1071359.496	26.327
4_015_4	581066.849	1071301.685	24.722



4_015_5	579463.997	1071349.307	22.009
4_015_6	578950.783	1071096.643	21.978
4_016_1	583911.775	1073777.327	27.295
4_016_2	583832.487	1073708.632	27.398
4_016_3	581569.102	1073878.076	25.718
4_016_4	581465.455	1073888.372	24.809
4_016_5	579369.723	1074084.787	21.087
4_016_6	579550.571	1073755.844	22.508
4_017_1	583755.837	1076417.201	21.684
4_017_2	583542.479	1076423.523	21.314
4_017_3	581338.547	1076405.200	20.081
4_017_4	580943.812	1076265.093	18.905
4_017_5	579146.291	1076283.920	17.572
4_017_6	579222.892	1076215.759	19.465
4_018_1	583440.596	1078876.899	20.129
4_018_2	583447.472	1078851.931	19.954
4_018_3	581475.677	1078977.045	20.312
4_018_4	581105.026	1078815.024	20.840
4_018_5	578908.819	1078837.948	20.375
4_018_6	578882.819	1078825.466	19.907
4_019_1	583913.009	1081488.218	27.840
4_019_2	583924.871	1081263.909	28.216
4_019_3	581834.651	1081528.273	24.334
4_019_4	581833.350	1081417.331	24.500
4_019_5	579384.203	1081642.548	15.907
4_019_6	579705.890	1081459.837	19.036
4_020_1	583903.811	1083909.773	21.925
4_020_2	583851.188	1083810.298	22.063
4_020_3	582600.894	1084098.075	17.483
4_020_4	582655.563	1083739.403	17.737
4_020_5	581615.012	1084073.933	22.244
4_020_6	581620.756	1083787.097	21.844
4_021_1	583932.323	1086474.812	20.375
4_021_2	583702.970	1086215.323	18.295
4_021_3	582156.939	1086536.747	13.369
4_021_4	582167.746	1086192.061	14.115
4_021_5	581220.417	1086394.431	12.803
4_021_6	581256.229	1086203.843	13.178
4_022_1	583781.801	1089065.297	13.749
4_022_2	583724.597	1089010.754	13.913
4_022_3	581469.700	1088918.600	11.961
4_022_4	581169.026	1089061.994	11.878
4_022_5	579127.293	1089325.415	12.655
4_022_6	578833.240	1089424.466	12.115



4_023_1	583877.146	1091539.920	16.610
4_023_2	583610.529	1091233.874	16.255
4_023_3	581817.920	1091591.116	12.480
4_023_4	581482.422	1091411.912	12.277
4_023_5	579030.427	1091701.669	12.995
4_023_6	578864.256	1091699.636	12.914
4_024_1	583466.280	1094284.030	22.910
4_024_2	583326.487	1094170.039	21.368
4_024_3	581316.169	1094282.948	25.989
4_024_4	581197.683	1094284.909	25.493
4_024_5	579117.944	1094230.923	29.672
4_024_6	578972.101	1094146.796	28.697
4_025_1	583459.094	1096393.580	34.791
4_025_2	583342.001	1096352.065	33.658
4_025_3	581653.377	1096745.330	44.371
4_025_4	581637.486	1096638.801	41.012
4_025_5	579164.420	1096758.770	71.101
4_025_6	579034.408	1096748.793	69.048
4_026_1	583883.138	1099112.938	58.494
4_026_2	583759.004	1099090.298	58.105
4_026_3	581433.540	1099085.304	73.952
4_026_4	581267.038	1098976.133	75.296
4_026_5	579199.539	1099304.784	93.193
4_026_6	579027.207	1099123.717	94.527
4_027_1	583761.466	1101728.385	67.046
4_027_2	583625.905	1101604.797	66.835
4_027_3	581375.229	1101803.347	80.391
4_027_4	581185.779	1101729.612	80.556
4_027_5	579084.270	1101894.966	81.331
4_027_6	578904.545	1101885.345	80.416
4_028_1	583620.238	1104192.140	69.335
4_028_2	583291.405	1104321.299	69.626
4_028_3	581455.085	1104251.379	69.522
4_028_4	581265.415	1104283.965	69.671
4_028_5	579019.110	1104141.577	70.504
4_028_6	578899.210	1104279.209	70.346
4_029_1	583550.931	1106940.166	69.219
4_029_2	583414.307	1106882.337	69.983
4_029_3	581309.232	1106902.023	66.635
4_029_4	581213.367	1106911.339	66.305
4_029_5	578923.189	1106839.215	62.286
4_029_6	578765.191	1106768.283	63.271
4_030_1	583574.884	1109292.314	65.122
4_030_2	583398.937	1109410.967	66.049



4_030_3	581630.005	1109301.862	64.991
4_030_4	581136.931	1109278.395	63.868
4_030_5	579100.325	1109362.454	67.588
4_030_6	578905.910	1109355.427	68.028
4_031_1	583648.863	1111918.944	65.381
4_031_2	583580.092	1111855.178	65.668
4_031_3	581551.018	1111945.149	68.608
4_031_4	581335.238	1112022.502	68.118
4_031_5	579061.401	1112009.358	65.712
4_031_6	579328.954	1111936.660	67.131
4_032_1	583863.037	1114353.949	70.648
4_032_2	583690.644	1114252.128	70.565
4_032_3	581711.098	1114607.969	72.693
4_032_4	581253.235	1114555.260	70.907
4_032_5	579153.654	1114353.729	69.172
4_032_6	578995.689	1114371.195	68.621
4_033_1	584014.663	1116821.825	73.380
4_033_2	584245.953	1116860.212	73.883
4_033_3	581857.061	1117005.667	73.131
4_033_4	581198.335	1117024.165	70.811
4_033_5	579267.561	1116927.840	68.157
4_033_6	578991.983	1116938.724	68.393
4_034_1	583869.228	1119445.620	72.766
4_034_2	583494.514	1119531.993	71.324
4_034_3	581670.836	1119664.824	70.919
4_034_4	581443.672	1119570.199	70.033
4_034_5	579348.856	1119596.803	76.385
4_034_6	579250.138	1119458.921	75.935
4_035_1	584037.417	1122080.851	71.323
4_035_2	583705.794	1121886.541	70.376
4_035_3	581534.361	1122174.867	79.666
4_035_4	581360.946	1122096.443	79.569
4_035_5	579239.069	1122093.540	81.191
4_035_6	579049.050	1122063.170	83.017
4_036_1	583838.616	1124616.632	73.713
4_036_2	583484.888	1124559.190	73.541
4_036_3	581758.462	1124789.069	81.890
4_036_4	581894.898	1124722.435	82.455
4_036_5	579073.728	1124906.985	92.757
4_036_6	578877.783	1124891.351	93.777
4_037_1	583834.057	1126882.161	74.239
4_037_2	583818.683	1126708.082	73.235
4_037_3	581291.683	1126901.595	92.044
4_037_4	581237.808	1126992.830	92.350

4_037_5	579399.607	1127076.565	95.285
4_037_6	579460.326	1127071.110	95.072
4_038_1	584065.387	1129435.334	76.399
4_038_2	583490.345	1129516.267	84.866
4_038_3	581654.598	1129740.671	93.345
4_038_4	581277.297	1129820.094	94.865
4_038_5	579058.961	1129683.383	93.934
4_038_6	579195.800	1129634.076	92.167
4_039_1	584153.850	1131896.516	61.774
4_039_2	583960.369	1131754.409	60.992
4_039_3	581332.839	1132163.354	83.663
4_039_4	581312.760	1132072.323	83.706
4_039_5	579635.360	1132160.089	88.627
4_039_6	579632.882	1132039.221	89.488
4_040_1	583886.799	1134410.462	67.219
4_040_2	583341.600	1134569.462	54.698
4_040_3	581364.206	1134606.757	76.448
4_040_4	581214.589	1134552.790	77.524
4_040_5	579085.967	1134777.974	72.225
4_040_6	578916.170	1134576.833	74.191
4_041_1	583347.513	1137196.022	46.320
4_041_2	582421.318	1137034.799	47.429
4_041_3	581222.717	1137303.383	55.187
4_041_4	581223.690	1137386.582	56.562
4_041_5	579558.793	1137460.472	49.224
4_041_6	579529.941	1137308.255	45.910
4_042_1	583965.833	1139524.872	78.841
4_042_2	583369.970	1139549.788	82.802
4_042_3	581545.642	1139700.747	77.420
4_042_4	581434.223	1139681.915	76.155
4_042_5	579338.520	1139882.875	77.566
4_042_6	579229.899	1139538.120	76.049
4_043_1	583892.190	1142181.100	93.320
4_043_2	583720.291	1142133.915	93.576
4_043_3	581739.714	1142289.922	94.803
4_043_4	581746.117	1142476.810	96.209
4_043_5	579152.803	1142549.475	100.810
4_043_6	579137.614	1142303.548	99.889
4_044_1	583938.180	1144555.568	87.624
4_044_2	583717.181	1144882.647	88.249
4_044_3	581757.506	1144786.667	97.439
4_044_4	581045.716	1144919.186	98.788
4_044_5	579986.161	1144950.547	100.644
4_044_6	579989.650	1144705.655	99.982



4_045_1	583684.190	1147266.394	97.302
4_045_2	583477.600	1147254.021	98.499
4_045_3	581946.337	1147291.731	103.126
4_045_4	581948.210	1147071.688	102.482
4_045_5	579051.240	1147030.120	98.272
4_045_6	578628.958	1147542.373	97.533
4_046_1	583852.314	1149695.580	97.288
4_046_2	583649.822	1149770.970	97.833
4_046_3	581266.645	1150025.842	103.536
4_046_4	581097.956	1150031.934	104.698
4_046_5	579003.942	1150027.539	96.507
4_046_6	578817.799	1150013.961	96.670
4_047_1	583801.075	1152353.499	104.322
4_047_2	583512.705	1152313.367	105.109
4_047_3	581388.399	1152588.633	107.928
4_047_4	581159.505	1152592.032	107.824
4_047_5	579065.630	1152703.298	100.641
4_047_6	578951.585	1152601.000	100.237
4_048_1	583359.657	1154891.487	107.130
4_048_2	583303.980	1154858.242	105.895
4_048_3	581406.578	1155103.122	103.652
4_048_4	581160.638	1155120.339	104.698
4_048_5	579054.781	1155226.026	101.547
4_048_6	578977.985	1155064.809	101.104
4_049_1	583956.265	1157392.716	112.188
4_049_2	583183.171	1157506.387	113.084
4_049_3	581475.460	1157540.447	108.312
4_049_4	581193.464	1157578.114	107.196
4_049_5	579081.013	1157642.502	103.894
4_049_6	578935.160	1157599.369	103.723
4_050_1	583870.364	1159823.311	114.112
4_050_2	583643.562	1159832.709	114.946
4_050_3	581491.118	1160059.420	115.489
4_050_4	581323.540	1160103.093	114.828
4_050_5	579289.285	1160181.260	111.550
4_050_6	579163.211	1160161.179	111.813
4_051_1	583831.750	1162410.122	122.044
4_051_2	583714.683	1162264.542	121.442
4_051_3	581589.676	1162590.846	117.781
4_051_4	581316.231	1162549.252	116.768
4_051_5	579309.478	1162727.533	114.499
4_051_6	579063.702	1162655.964	115.138
4_052_1	583787.050	1165338.852	126.302
4_052_2	583669.958	1165259.625	125.915



4_052_3	581430.224	1165189.583	120.754
4_052_4	581205.868	1165169.312	120.358
4_052_5	579237.504	1165286.909	118.474
4_052_6	578958.762	1165268.610	117.913
4_053_1	583787.829	1167633.227	127.825
4_053_2	583648.381	1167637.202	127.461
4_053_3	581427.900	1167634.474	124.797
4_053_4	581309.418	1167639.753	123.662
4_053_5	579070.714	1167706.501	118.574
4_053_6	578936.500	1167528.718	116.548
5_001_1	583347.285	1035761.945	29.419
5_001_2	583548.881	1035752.232	29.478
5_001_3	585726.685	1035632.874	29.860
5_001_4	585785.317	1035629.809	28.873
5_001_5	588085.119	1035500.361	28.970
5_001_6	588112.148	1035606.639	28.613
5_002_1	583441.136	1038121.095	29.880
5_002_2	583701.205	1038206.139	29.631
5_002_3	585705.131	1037900.370	29.333
5_002_4	586137.654	1038040.161	29.288
5_002_5	588040.570	1038076.566	29.363
5_002_6	587885.154	1038142.067	29.539
5_003_1	583372.718	1040782.194	31.675
5_003_2	583513.247	1040629.963	31.627
5_003_3	585785.801	1040795.191	29.631
5_003_4	585847.460	1040833.769	29.718
5_003_5	588160.934	1040655.027	30.404
5_003_6	588304.622	1040694.909	30.470
5_004_1	583465.407	1043497.596	31.893
5_004_2	583516.103	1043571.457	32.181
5_004_3	585649.684	1043132.638	31.838
5_004_4	585576.261	1043338.306	31.548
5_004_5	588231.964	1043072.266	32.057
5_004_6	588479.579	1043425.463	31.620
5_005_1	583627.378	1046145.978	32.081
5_005_2	583453.481	1045950.058	31.678
5_005_3	585877.585	1045924.219	33.436
5_005_4	585882.078	1046063.599	33.638
5_005_5	588173.173	1045871.762	33.926
5_005_6	588343.659	1045929.905	33.197
5_006_1	583330.153	1048395.083	32.137
5_006_2	583597.795	1048453.721	33.422
5_006_3	585784.087	1048224.415	34.120
5_006_4	585960.491	1048373.871	35.193



5_006_5	588004.401	1048249.933	35.413
5_006_6	588177.005	1048304.477	35.629
5_007_1	583147.569	1050935.820	32.668
5_007_2	583490.608	1050939.310	33.349
5_007_3	585670.127	1050860.685	32.343
5_007_4	585896.822	1050844.450	33.053
5_007_5	588081.314	1050778.192	35.270
5_007_6	588266.978	1050771.554	34.194
5_008_1	583358.943	1053638.666	35.318
5_008_2	583550.652	1053605.633	34.998
5_008_3	585656.663	1053347.493	35.524
5_008_4	585967.932	1053512.041	36.635
5_008_5	588095.883	1053308.734	35.683
5_008_6	587943.562	1053362.989	36.445
5_009_1	583292.662	1056007.399	35.582
5_009_2	583538.706	1055899.838	36.629
5_009_3	585558.514	1056002.324	37.547
5_009_4	585969.886	1055905.729	37.079
5_009_5	588137.875	1055774.563	39.435
5_009_6	588253.617	1055769.804	39.416
5_010_1	583786.271	1058465.789	33.958
5_010_2	584274.627	1058665.048	34.530
5_010_3	586199.424	1058447.315	39.115
5_010_4	586299.616	1058392.271	39.773
5_010_5	588038.525	1058314.161	36.052
5_010_6	588343.627	1058278.910	36.022
5_011_1	583476.315	1061085.714	35.127
5_011_2	583690.244	1061066.067	36.311
5_011_3	585749.445	1060912.202	39.124
5_011_4	586126.861	1060954.165	38.623
5_011_5	588263.280	1060658.926	42.104
5_011_6	588276.022	1060792.043	41.757
5_012_1	583269.571	1063495.818	39.455
5_012_2	583857.574	1063589.141	41.918
5_012_3	585620.508	1063649.204	40.812
5_012_4	585777.026	1063560.405	40.532
5_012_5	588061.516	1063394.596	41.739
5_012_6	588351.809	1063509.951	40.935
5_013_1	583483.617	1066243.489	34.144
5_013_2	583649.156	1066272.592	33.200
5_013_3	585768.623	1066198.345	37.414
5_013_4	585994.666	1066132.015	38.941
5_013_5	588071.289	1065980.018	36.956
5_013_6	587781.489	1066084.817	37.587



5_014_1	583374.255	1068502.753	33.789
5_014_2	583655.823	1068826.934	34.239
5_014_3	585803.124	1068534.774	37.060
5_014_4	585925.876	1068429.314	36.935
5_014_5	588167.986	1068396.542	38.726
5_014_6	588217.710	1068556.261	39.305
5_015_1	583301.292	1071296.602	32.296
5_015_2	583469.346	1071270.792	31.614
5_015_3	586174.795	1071119.348	34.864
5_015_4	586301.964	1071165.041	34.446
5_015_5	588461.322	1071044.792	39.798
5_015_6	588173.432	1071172.186	38.377
5_016_1	583592.297	1073936.771	27.244
5_016_2	583612.682	1074023.805	26.608
5_016_3	585660.117	1073696.282	26.710
5_016_4	585822.539	1073486.942	30.004
5_016_5	588282.519	1073514.432	39.270
5_016_6	588453.829	1073524.194	39.900
5_017_1	583568.409	1076386.734	21.466
5_017_2	583662.896	1076366.023	21.456
5_017_3	585586.696	1076170.120	23.258
5_017_4	585654.894	1076102.516	24.183
5_017_5	588162.371	1075943.500	36.659
5_017_6	588095.686	1075972.252	36.624
5_018_1	583432.874	1078874.924	19.368
5_018_2	583333.821	1078717.075	15.912
5_018_3	586557.987	1078877.392	24.902
5_018_4	586527.552	1078926.897	25.722
5_018_5	588233.143	1078624.754	32.237
5_018_6	588348.560	1078743.643	34.242
5_019_1	583346.038	1081471.550	25.707
5_019_2	583379.137	1081569.572	25.639
5_019_3	585240.883	1081533.057	25.806
5_019_4	586176.099	1081328.324	22.528
5_019_5	587436.710	1081231.571	25.219
5_019_6	587526.321	1081500.184	25.090
5_020_1	583368.407	1083910.370	24.994
5_020_2	583547.212	1084078.556	25.331
5_020_3	585825.787	1083860.708	29.658
5_020_4	585768.870	1084065.549	29.186
5_020_5	587969.067	1083958.589	27.778
5_020_6	587678.603	1083758.343	28.021
5_021_1	583316.680	1086376.868	15.893
5_021_2	583663.612	1086460.894	16.251



5_021_3	585812.428	1086360.682	29.438
5_021_4	585971.058	1086404.977	29.440
5_021_5	587977.689	1086202.815	30.764
5_021_6	588029.216	1086395.907	30.531
5_022_1	583519.047	1088995.540	13.574
5_022_2	583868.876	1088987.677	13.690
5_022_3	585450.617	1088877.336	16.023
5_022_4	586310.305	1088865.395	14.696
5_022_5	587501.265	1088693.152	25.912
5_022_6	587500.319	1088654.348	26.009
5_023_1	583832.245	1091469.962	16.221
5_023_2	583998.872	1091472.536	16.127
5_023_3	585423.334	1091375.836	13.871
5_023_4	585550.257	1091109.526	13.825
5_023_5	587945.030	1091083.977	19.153
5_023_6	588060.811	1091092.452	19.183
5_024_1	583320.449	1094156.787	20.965
5_024_2	584000.434	1094014.260	20.612
5_024_3	585607.223	1093895.505	22.597
5_024_4	585879.165	1094012.343	23.852
5_024_5	588380.870	1093712.692	24.754
5_024_6	588455.408	1093889.782	26.577
5_025_1	583539.469	1096523.183	36.601
5_025_2	583592.116	1096854.667	37.607
5_025_3	585935.402	1096318.242	43.018
5_025_4	586133.521	1096441.272	42.241
5_025_5	588037.045	1096561.873	31.784
5_025_6	587874.412	1096343.191	32.805
5_026_1	583722.227	1099128.525	58.358
5_026_2	583948.828	1099266.605	59.248
5_026_3	585798.138	1099046.309	54.745
5_026_4	586117.623	1099065.055	54.844
5_026_5	588191.887	1099017.283	43.303
5_026_6	588210.020	1099222.584	43.471
5_027_1	583486.238	1101728.633	69.501
5_027_2	583572.881	1101783.577	69.297
5_027_3	585662.953	1101815.209	56.146
5_027_4	585995.759	1101833.153	55.550
5_027_5	588069.594	1101572.875	49.097
5_027_6	588084.542	1101501.426	50.505
5_028_1	583674.603	1104164.658	69.620
5_028_2	583990.259	1104184.190	69.007
5_028_3	586184.829	1104210.458	62.367
5_028_4	586327.449	1104441.556	61.559



5_028_5	588342.873	1103862.708	54.444
5_028_6	588055.536	1103950.567	55.486
5_029_1	583343.072	1106681.628	69.795
5_029_2	583411.801	1106796.542	69.705
5_029_3	585815.248	1106492.364	61.747
5_029_4	585847.707	1106636.347	60.708
5_029_5	588325.195	1106531.216	53.202
5_029_6	588365.804	1106490.948	53.273
5_030_1	583552.597	1109301.335	65.203
5_030_2	583849.450	1109074.972	65.991
5_030_3	585785.406	1109116.506	59.406
5_030_4	585858.323	1109137.737	58.588
5_030_5	588027.998	1109016.901	52.240
5_030_6	588099.630	1109110.530	51.527
5_031_1	583478.260	1111789.453	66.270
5_031_2	583640.026	1111746.695	65.290
5_031_3	585929.460	1111826.965	57.439
5_031_4	586022.040	1111830.173	56.714
5_031_5	587262.802	1112020.565	53.948
5_031_6	587346.598	1112030.265	53.611
5_032_1	583575.002	1114447.018	69.525
5_032_2	583723.631	1114313.097	70.122
5_032_3	585761.661	1114203.870	67.995
5_032_4	585929.533	1114211.930	67.643
5_032_5	588164.878	1114097.755	63.806
5_032_6	588328.015	1114117.176	62.923
5_033_1	583417.212	1116659.746	74.267
5_033_2	583614.003	1116662.556	73.088
5_033_3	586938.721	1116874.807	73.156
5_033_4	586933.790	1116928.630	73.609
5_033_5	587484.530	1116946.221	72.813
5_033_6	587465.273	1116779.693	72.665
5_034_1	583751.798	1119345.261	71.083
5_034_2	583912.997	1119418.532	71.220
5_034_3	585795.116	1119163.090	71.662
5_034_4	586089.633	1119174.169	71.698
5_034_5	588151.581	1119357.851	73.972
5_034_6	588262.916	1119348.976	73.781
5_035_1	583584.217	1121730.737	70.665
5_035_2	583670.674	1121850.531	70.199
5_035_3	585604.081	1121735.855	71.012
5_035_4	585580.213	1121859.364	71.750
5_035_5	587939.500	1121654.978	77.213
5_035_6	587952.911	1121738.154	76.764



5_036_1	583350.867	1124360.312	72.438
5_036_2	583515.719	1124354.186	72.867
5_036_3	585698.560	1124282.833	72.162
5_036_4	585915.285	1124275.967	72.104
5_036_5	588026.462	1124217.372	72.965
5_036_6	588190.795	1124235.737	72.017
5_037_1	583213.372	1126996.971	75.818
5_037_2	583844.439	1126966.260	74.023
5_037_3	585714.641	1126784.248	77.294
5_037_4	586036.638	1126870.757	77.046
5_037_5	588077.000	1126998.985	72.374
5_037_6	588280.410	1127021.208	72.061
5_038_1	583244.115	1129738.585	84.693
5_038_2	583400.462	1129648.145	84.769
5_038_3	585671.977	1129338.107	85.513
5_038_4	585927.078	1129322.262	87.787
5_038_5	587936.569	1129352.873	80.727
5_038_6	588020.409	1129312.184	83.134
5_039_1	584072.028	1132281.240	63.846
5_039_2	584240.066	1132055.400	62.215
5_039_3	586163.697	1131986.308	73.526
5_039_4	586270.938	1132005.893	73.657
5_039_5	586718.666	1131797.740	75.211
5_039_6	586856.701	1131747.731	77.152
5_040_1	583332.367	1134563.419	54.772
5_040_2	583477.449	1134449.070	56.890
5_040_3	585634.917	1134683.312	80.598
5_040_4	585897.027	1134652.369	82.129
5_040_5	588087.763	1134563.642	86.015
5_040_6	588307.027	1134589.284	85.690
5_041_1	583142.070	1136996.535	45.591
5_041_2	583237.483	1137026.077	46.817
5_041_3	585135.656	1137104.866	50.217
5_041_4	586058.131	1137480.110	50.908
5_041_5	588032.618	1137026.654	74.788
5_041_6	588103.595	1137026.006	75.231
5_042_1	583176.552	1139537.839	83.932
5_042_2	583388.129	1139576.591	83.007
5_042_3	585583.172	1139643.490	66.117
5_042_4	585905.993	1139527.438	53.274
5_042_5	587816.397	1139527.013	63.535
5_042_6	588064.886	1139651.890	67.499
5_043_1	583182.637	1142412.244	91.816
5_043_2	583485.919	1141907.663	93.836



5_043_3	585623.914	1142154.628	81.213
5_043_4	585885.892	1142035.171	77.074
5_043_5	587680.938	1142139.597	53.859
5_043_6	587525.296	1142165.732	57.374
5_044_1	583833.996	1144638.952	87.715
5_044_2	583871.890	1144500.835	87.348
5_044_3	585835.780	1144758.079	87.389
5_044_4	586065.531	1144679.082	88.011
5_044_5	587872.302	1144538.294	83.058
5_044_6	588128.904	1144563.666	79.125
5_045_1	583359.559	1147121.254	99.626
5_045_2	583520.082	1147160.428	97.923
5_045_3	585730.585	1147109.411	87.993
5_045_4	585875.484	1147094.531	88.123
5_045_5	587969.946	1147199.518	87.667
5_045_6	588148.873	1147242.708	87.410
5_046_1	583256.445	1149719.692	100.568
5_046_2	583494.755	1149748.561	99.104
5_046_3	585515.679	1149774.097	92.283
5_046_4	585660.643	1149756.885	91.997
5_046_5	587992.165	1149781.118	93.889
5_046_6	588146.815	1149818.299	94.168
5_047_1	583311.143	1152222.551	105.282
5_047_2	583502.432	1152213.968	104.893
5_047_3	585629.658	1152250.339	100.661
5_047_4	585948.277	1152314.630	100.458
5_047_5	588028.727	1152265.635	97.912
5_047_6	588244.960	1152237.830	96.831
5_048_1	583298.882	1154670.561	106.199
5_048_2	583394.454	1154636.687	107.097
5_048_3	585766.603	1154781.710	111.627
5_048_4	585852.589	1154753.321	108.954
5_048_5	588019.854	1154777.803	105.894
5_048_6	588202.118	1154848.116	103.668
5_049_1	583099.887	1157297.874	110.840
5_049_2	583742.837	1157217.552	110.926
5_049_3	585837.255	1157344.940	113.454
5_049_4	585975.622	1157255.043	112.939
5_049_5	587988.269	1157377.008	111.254
5_049_6	588121.803	1157382.135	110.808
5_050_1	583204.835	1159724.717	114.558
5_050_2	583496.258	1159756.587	114.339
5_050_3	585822.682	1159786.664	115.904
5_050_4	585892.456	1159821.024	115.533



5_050_5	587961.819	1160089.058	112.105
5_050_6	588148.014	1160067.216	112.885
5_051_1	583614.508	1162230.415	121.313
5_051_2	583771.886	1162455.607	121.883
5_051_3	585541.364	1162324.202	123.556
5_051_4	585715.313	1162505.059	123.914
5_051_5	587932.208	1162229.787	120.235
5_051_6	588099.785	1162221.842	120.266
5_052_1	583255.185	1164991.201	122.992
5_052_2	583359.605	1164951.061	123.631
5_052_3	585297.577	1165000.275	126.913
5_052_4	585364.516	1164989.529	127.523
5_052_5	587834.414	1164902.043	125.655
5_052_6	588039.484	1164838.639	128.150
5_053_1	583321.909	1167416.282	127.503
5_053_2	583482.585	1167457.330	127.790
5_053_3	585736.266	1167552.601	127.046
5_053_4	585839.171	1167444.812	125.265
5_053_5	588054.179	1167480.529	121.021
6_001_1	592530.584	1035921.624	28.957
6_001_2	592255.206	1035911.165	29.591
6_001_3	591032.795	1035720.201	29.887
6_001_4	591083.649	1035762.072	29.720
6_001_5	588432.444	1035453.630	29.794
6_001_6	588480.533	1035544.782	29.464
6_002_1	592593.366	1038369.308	27.866
6_002_2	592527.379	1038384.884	27.616
6_002_3	590088.373	1038242.973	28.720
6_002_4	590383.640	1038252.616	28.761
6_002_5	588057.944	1038131.832	29.277
6_002_6	587973.029	1038120.046	29.343
6_003_1	592673.255	1040913.214	31.068
6_003_2	592542.514	1040893.080	31.128
6_003_3	590324.131	1040884.034	31.071
6_003_4	590038.907	1040873.994	29.859
6_003_5	587901.291	1040788.714	30.077
6_003_6	587738.819	1040735.384	30.115
6_004_1	592787.652	1043386.961	31.804
6_004_2	592495.524	1043415.706	31.840
6_004_3	590321.528	1043334.939	33.004
6_004_4	590132.437	1043327.664	33.525
6_004_5	588464.469	1043411.036	31.652
6_004_6	588483.295	1043468.337	32.090
6_005_1	592889.428	1045976.420	35.452

6_005_2	592519.403	1046010.908	35.893
6_005_3	590380.042	1045969.426	34.249
6_005_4	590222.558	1045977.447	34.687
6_005_5	587954.906	1045909.498	33.768
6_005_6	587900.408	1045962.837	33.866
6_006_1	591547.504	1048265.965	34.297
6_006_2	591618.200	1048215.972	33.974
6_006_3	590743.151	1048748.669	33.649
6_006_4	590607.051	1048754.760	33.331
6_006_5	587923.411	1048385.739	35.010
6_006_6	587778.816	1048350.458	35.090
6_007_1	592580.520	1050926.836	36.874
6_007_2	592357.935	1050989.834	38.652
6_007_3	590225.274	1051062.702	36.831
6_007_4	589986.205	1051057.811	37.280
6_007_5	587956.161	1050985.315	34.682
6_007_6	587684.929	1051005.969	34.612
6_008_1	592546.029	1053470.409	41.934
6_008_2	592373.895	1053541.808	39.984
6_008_3	590286.548	1053528.765	38.863
6_008_4	590071.854	1053587.219	38.892
6_008_5	588088.045	1053530.252	36.940
6_008_6	587847.891	1053521.920	37.084
6_009_1	592737.829	1056162.447	43.667
6_009_2	592591.188	1056164.618	43.410
6_009_3	590598.859	1056148.184	41.306
6_009_4	590184.647	1056111.773	41.734
6_009_5	588038.408	1056048.894	39.949
6_009_6	587874.296	1056053.750	39.585
6_010_1	592814.007	1058629.915	46.559
6_010_2	592613.318	1058626.552	46.547
6_010_3	590359.666	1058702.465	41.355
6_010_4	590148.915	1058707.095	40.948
6_010_5	587968.793	1058635.271	36.248
6_010_6	587988.177	1058495.840	35.717
6_011_1	592637.592	1061188.054	45.999
6_011_2	592520.628	1061139.689	46.239
6_011_3	590375.050	1061161.483	43.613
6_011_4	590145.162	1061072.362	43.455
6_011_5	588224.252	1061120.437	41.941
6_011_6	588316.532	1061070.872	41.714
6_012_1	592685.274	1063852.704	44.594
6_012_2	592471.556	1063814.861	45.192
6_012_3	590450.706	1063564.356	41.443

6_012_4	590118.167	1063636.101	42.718
6_012_5	588130.840	1063684.051	41.486
6_012_6	587898.343	1063581.572	41.233
6_013_1	592094.977	1066311.803	43.585
6_013_2	591968.504	1066287.711	44.029
6_013_3	590248.882	1066276.498	41.852
6_013_4	590119.550	1066305.657	41.569
6_013_5	588063.364	1065987.085	36.999
6_013_6	587774.480	1066067.671	37.719
6_014_1	592823.113	1068892.703	45.370
6_014_2	592294.186	1068818.703	45.383
6_014_3	590493.052	1068835.390	41.574
6_014_4	590382.473	1068703.051	41.325
6_014_5	588169.808	1068831.620	40.918
6_014_6	587937.079	1068731.330	39.634
6_015_1	592843.284	1071478.970	50.512
6_015_2	592479.683	1071515.710	50.574
6_015_3	590641.282	1071330.797	43.153
6_015_4	589805.720	1071269.783	38.188
6_015_5	588321.409	1071322.574	36.865
6_015_6	587708.292	1071251.819	35.958
6_016_1	592802.509	1073924.794	51.219
6_016_2	592494.613	1073862.832	51.479
6_016_3	590355.844	1073888.043	46.090
6_016_4	590133.303	1073876.576	44.351
6_016_5	587921.734	1073733.506	37.452
6_016_6	587780.867	1073815.651	36.880
6_017_1	592845.799	1076370.473	52.917
6_017_2	592547.513	1076315.147	52.095
6_017_3	590550.442	1076362.598	43.834
6_017_4	590381.076	1076369.592	43.301
6_017_5	588088.118	1076350.919	34.047
6_017_6	587893.087	1076285.215	33.751
6_018_1	592824.032	1078799.585	48.812
6_018_2	592489.710	1078818.795	48.356
6_018_3	590388.855	1078908.924	36.349
6_018_4	590134.324	1078896.801	37.309
6_018_5	588287.197	1078822.574	32.171
6_018_6	588333.442	1078716.990	34.488
6_019_1	592795.275	1081362.475	38.428
6_019_2	592454.572	1081480.737	35.031
6_019_3	590098.956	1081314.915	27.916
6_019_4	589974.953	1081300.240	28.403
6_019_5	587508.554	1081502.874	25.171



6_019_6	587411.543	1081233.270	25.678
6_020_1	592728.081	1084008.067	28.243
6_020_2	592577.617	1083898.444	27.880
6_020_3	590463.260	1084084.657	27.062
6_020_4	589917.511	1084123.846	27.553
6_020_5	587969.884	1083956.945	27.881
6_020_6	587749.005	1083857.623	27.881
6_021_1	591505.542	1086447.455	30.681
6_021_2	591624.509	1086641.339	31.577
6_021_3	590423.558	1086427.755	32.459
6_021_4	590122.747	1086543.277	32.506
6_021_5	588120.950	1086445.981	30.530
6_021_6	587803.727	1086437.900	30.315
6_022_1	592815.936	1089102.584	39.488
6_022_2	592579.366	1089087.566	39.877
6_022_3	590490.381	1088902.111	35.148
6_022_4	590137.964	1088887.675	34.131
6_022_5	587475.293	1088896.872	24.905
6_022_6	587449.895	1088936.663	24.330
6_023_1	592653.371	1091558.706	40.698
6_023_2	592608.113	1091621.932	41.071
6_023_3	590621.959	1091687.715	30.516
6_023_4	589893.529	1091545.132	25.271
6_023_5	587523.637	1091392.659	23.036
6_023_6	587522.140	1091572.069	23.594
6_024_1	592914.156	1094082.252	48.942
6_024_2	592471.398	1094075.603	48.262
6_024_3	590402.174	1094181.199	37.772
6_024_4	590273.470	1094116.119	37.367
6_024_5	588718.211	1094044.493	29.561
6_024_6	588701.286	1094031.007	29.276
6_025_1	592716.078	1096500.199	38.253
6_025_2	592469.131	1096640.283	37.923
6_025_3	590417.274	1096683.172	43.207
6_025_4	590197.657	1096718.921	43.124
6_025_5	587819.503	1096650.597	32.715
6_025_6	588045.769	1096565.091	32.200
6_026_1	592687.710	1099188.252	40.286
6_026_2	592624.425	1099179.276	41.794
6_026_3	590472.152	1099187.579	39.640
6_026_4	590216.068	1099184.525	43.482
6_026_5	587974.456	1099137.875	42.856
6_026_6	587798.416	1099175.484	44.173
6_027_1	592788.257	1101748.801	48.621



6_027_2	592593.404	1101744.274	48.582
6_027_3	590319.372	1101666.837	50.683
6_027_4	590000.812	1101719.832	50.995
6_027_5	588007.651	1101651.299	49.464
6_027_6	587633.187	1101725.048	48.008
6_028_1	592805.729	1104110.777	56.623
6_028_2	592532.768	1104277.027	57.130
6_028_3	590412.598	1104229.240	56.826
6_028_4	590183.494	1104182.070	56.506
6_028_5	588362.035	1104317.871	55.702
6_028_6	588332.324	1104228.626	55.596
6_029_1	592582.946	1106692.963	54.804
6_029_2	592340.280	1106770.302	54.546
6_029_3	590413.294	1106937.574	52.642
6_029_4	590032.001	1106926.379	51.936
6_029_5	588275.518	1106905.345	52.903
6_029_6	588304.707	1106891.877	53.094
6_030_1	592570.813	1109279.468	51.954
6_030_2	592435.091	1109238.558	52.121
6_030_3	590181.553	1109627.270	51.329
6_030_4	589552.026	1109475.911	49.425
6_030_5	587728.034	1109263.988	51.427
6_030_6	587829.587	1109310.197	50.967
6_031_1	592496.499	1111694.830	49.874
6_031_2	592188.512	1111699.230	49.765
6_031_3	590240.206	1111888.741	49.387
6_031_4	590237.701	1111983.701	49.428
6_031_5	588076.688	1111857.869	50.720
6_031_6	588104.441	1111843.531	50.540
6_032_1	592763.899	1114298.254	59.270
6_032_2	592564.648	1114329.030	60.650
6_032_3	590350.884	1114462.433	63.479
6_032_4	590147.573	1114419.226	63.385
6_032_5	587987.295	1114448.172	65.019
6_032_6	587759.193	1114437.159	65.278
6_033_1	592535.199	1116767.735	68.876
6_033_2	592342.739	1116876.787	68.534
6_033_3	590386.307	1116664.504	68.892
6_033_4	590127.657	1116698.410	69.905
6_033_5	588686.913	1117011.420	71.322
6_033_6	588681.608	1117116.177	71.918
6_034_1	592634.055	1119452.464	69.897
6_034_2	592487.701	1119463.421	73.278
6_034_3	590202.715	1119560.093	71.423



6_034_4	590136.311	1119617.225	71.628
6_034_5	587826.093	1119486.186	72.439
6_034_6	587732.673	1119421.404	74.004
6_035_1	592531.754	1121859.472	69.978
6_035_2	592164.584	1122142.015	69.316
6_035_3	590045.153	1122065.866	72.644
6_035_4	589984.578	1122113.691	71.838
6_035_5	587647.652	1121964.730	75.397
6_035_6	587990.598	1122085.449	76.434
6_036_1	592638.957	1124620.987	65.135
6_036_2	592530.250	1124513.767	65.431
6_036_3	590379.564	1124697.032	66.489
6_036_4	590425.499	1124727.351	66.717
6_036_5	587918.520	1124596.061	73.297
6_036_6	587697.565	1124570.638	72.499
6_037_1	592667.067	1127060.966	68.109
6_037_2	592487.253	1127007.219	66.760
6_037_3	590219.742	1127117.579	68.906
6_037_4	590077.830	1127116.871	69.893
6_037_5	588366.994	1127127.221	72.222
6_037_6	588261.351	1127023.655	72.045
6_038_1	592737.587	1129490.902	67.645
6_038_2	592370.772	1129469.443	67.687
6_038_3	590869.192	1129535.489	68.410
6_038_4	590869.121	1129356.951	68.005
6_038_5	587945.127	1129674.650	79.543
6_038_6	587752.704	1129665.567	80.957
6_039_1	591432.634	1131817.397	68.905
6_039_2	591525.715	1131993.018	69.082
6_039_3	590391.829	1132110.131	71.435
6_039_4	590189.473	1132152.431	71.083
6_039_5	588698.792	1132103.404	67.971
6_039_6	588779.709	1132090.878	68.413
6_040_1	592771.386	1134569.428	68.918
6_040_2	592568.141	1134521.916	69.006
6_040_3	590277.752	1134748.120	72.916
6_040_4	590154.963	1134722.750	75.081
6_040_5	588014.838	1134688.894	86.721
6_040_6	587894.176	1134670.437	86.569
6_041_1	592461.625	1137345.817	86.249
6_041_2	592308.808	1137253.546	86.282
6_041_3	590363.545	1137359.731	90.342
6_041_4	590075.789	1137389.896	89.585
6_041_5	588080.532	1137255.982	76.927



6_041_6	588275.440	1137289.852	78.422
6_042_1	592748.999	1139768.184	97.051
6_042_2	592490.327	1139743.292	95.990
6_042_3	590403.113	1139916.338	88.486
6_042_4	590215.489	1139932.233	87.972
6_042_5	587948.618	1139769.154	63.546
6_042_6	587860.887	1139788.649	62.033
6_043_1	592724.027	1142420.693	92.579
6_043_2	592569.035	1142480.662	91.259
6_043_3	590560.856	1142334.292	73.848
6_043_4	590253.164	1142228.560	71.628
6_043_5	587681.693	1142143.376	54.113
6_043_6	587659.770	1142125.594	54.821
6_044_1	592749.482	1145107.581	73.173
6_044_2	592477.615	1144670.058	70.623
6_044_3	590096.768	1145244.730	69.121
6_044_4	589916.561	1145097.761	69.043
6_044_5	588002.397	1144815.997	80.726
6_044_6	587852.791	1144675.585	82.984
6_045_1	592460.970	1147511.707	72.389
6_045_2	592014.667	1147559.968	78.739
6_045_3	590411.052	1147705.877	74.196
6_045_4	590331.388	1147759.904	75.423
6_045_5	588026.625	1147414.941	85.418
6_045_6	587892.246	1147387.811	85.641
6_046_1	592695.414	1149858.560	82.488
6_046_2	592473.871	1149979.924	83.488
6_046_3	590442.096	1150038.203	87.902
6_046_4	590002.584	1150010.708	87.207
6_046_5	588081.131	1149849.428	93.742
6_046_6	588022.139	1149833.367	93.472
6_047_1	592706.501	1152582.629	85.165
6_047_2	592546.637	1152509.758	87.706
6_047_3	590315.944	1152430.869	94.549
6_047_4	590018.217	1152460.162	94.724
6_047_5	587980.430	1152353.817	96.928
6_047_6	587747.280	1152200.783	95.539
6_048_1	592287.791	1155116.191	92.342
6_048_2	592236.483	1154991.238	93.314
6_048_3	590401.756	1155073.365	100.362
6_048_4	590201.795	1155060.435	100.841
6_048_5	588087.107	1154873.532	103.608
6_048_6	587847.298	1154876.960	104.191
6_049_1	592599.765	1157604.660	96.248

6_049_2	592395.718	1157645.822	97.002
6_049_3	590415.737	1157666.320	101.251
6_049_4	590192.673	1157667.838	101.810
6_049_5	588084.698	1157554.488	111.207
6_049_6	587903.929	1157495.231	110.735
6_050_1	592777.313	1160121.205	92.746
6_050_2	592612.673	1160081.634	93.101
6_050_3	590530.106	1160430.259	100.322
6_050_4	589958.256	1159722.569	100.591
6_050_5	588080.460	1160099.279	111.692
6_050_6	587888.820	1160050.484	114.674
6_051_1	592769.271	1162504.528	102.420
6_051_2	592518.584	1162516.226	104.809
6_051_3	590410.844	1162556.765	114.292
6_051_4	590174.994	1162552.770	114.938
6_051_5	588557.422	1162560.149	121.370
6_051_6	588554.010	1162410.194	120.847
6_052_1	592806.560	1165041.494	103.378
6_052_2	592359.496	1164985.993	109.397
6_052_3	590448.015	1165094.677	120.889
6_052_4	590167.972	1165108.616	121.022
6_052_5	588083.944	1165061.489	127.013
6_052_6	587932.902	1165101.454	126.212
6_053_1	592583.545	1167592.273	102.765
6_053_2	592496.994	1167626.657	104.143
6_053_3	590432.052	1167412.631	116.700
6_053_4	590003.086	1167445.300	118.738
6_053_5	588113.150	1167437.225	120.572
6_053_6	588046.328	1167402.881	121.032
7_001_1	592251.105	1035913.872	30.218
7_001_2	592362.334	1035896.184	29.741
7_001_3	594564.102	1035613.517	29.835
7_001_4	594761.970	1035619.360	30.312
7_001_5	597024.563	1035457.206	31.428
7_001_6	597108.452	1035461.425	31.349
7_002_1	592218.234	1038189.955	28.480
7_002_2	592593.390	1038370.697	27.940
7_002_3	594581.377	1038115.190	31.978
7_002_4	594910.163	1038061.974	31.988
7_002_5	597180.816	1038137.884	30.169
7_002_6	597143.243	1038221.238	29.784
7_003_1	592054.154	1040823.182	33.240
7_003_2	592326.265	1040793.849	32.499
7_003_3	594415.700	1040592.588	32.251



7_003_4	594894.773	1040583.783	30.880
7_003_5	596904.836	1040678.518	33.987
7_003_6	597077.606	1040679.011	33.744
7_004_1	592180.504	1043243.097	31.746
7_004_2	592242.663	1043313.637	31.856
7_004_3	594832.289	1043525.734	33.206
7_004_4	594991.000	1043504.856	33.333
7_004_5	596986.944	1043127.155	34.804
7_004_6	597002.410	1043192.780	34.938
7_005_1	592096.767	1045778.351	34.730
7_005_2	592274.161	1045776.669	35.379
7_005_3	594584.174	1045980.764	34.495
7_005_4	595016.374	1045890.609	35.455
7_005_5	596943.579	1045769.111	37.585
7_005_6	597091.274	1045801.002	37.354
7_006_1	593475.336	1048293.071	35.899
7_006_2	593520.776	1048207.993	36.013
7_006_3	594672.183	1048276.870	38.165
7_006_4	594962.572	1048373.002	39.049
7_006_5	597127.236	1048310.581	39.911
7_006_6	597206.639	1048411.998	39.850
7_007_1	592230.076	1050810.135	38.534
7_007_2	592395.655	1050912.752	38.448
7_007_3	595358.599	1050734.069	40.558
7_007_4	595425.071	1050703.643	40.818
7_007_5	597017.426	1050824.543	39.058
7_007_6	597055.027	1050889.318	39.069
7_008_1	592046.495	1053271.254	39.463
7_008_2	592349.824	1053312.581	41.213
7_008_3	594707.106	1053348.843	42.701
7_008_4	594837.621	1053431.573	42.843
7_008_5	597271.092	1053392.056	44.398
7_008_6	597466.005	1053434.670	44.499
7_009_1	592083.984	1055735.492	40.198
7_009_2	592261.688	1055736.813	40.399
7_009_3	594104.895	1055855.798	43.560
7_009_4	594758.842	1055907.449	43.148
7_009_5	596831.023	1055817.505	44.742
7_009_6	596623.989	1055892.019	44.689
7_010_1	592032.874	1058327.858	45.317
7_010_2	592251.051	1058346.949	44.571
7_010_3	594233.835	1058685.378	46.377
7_010_4	595207.544	1058433.272	47.679
7_010_5	597062.128	1058525.053	47.881



7_010_6	597205.345	1058524.461	47.687
7_011_1	592127.110	1061099.108	45.416
7_011_2	592441.086	1061082.712	45.947
7_011_3	594241.720	1061017.513	45.795
7_011_4	594199.653	1061123.271	46.264
7_011_5	596780.190	1060803.475	45.771
7_011_6	596900.672	1060805.562	45.591
7_012_1	592162.405	1063599.339	44.542
7_012_2	592298.358	1063567.626	44.475
7_012_3	594192.048	1063562.357	47.376
7_012_4	594073.790	1063587.593	46.772
7_012_5	596861.469	1063577.774	47.440
7_012_6	596944.423	1063579.625	47.400
7_013_1	592139.563	1066087.932	44.052
7_013_2	592124.654	1066191.904	43.858
7_013_3	594781.192	1066147.047	46.699
7_013_4	594824.544	1066162.895	47.217
7_013_5	596932.722	1066057.919	46.500
7_013_6	597043.711	1066084.105	46.758
7_014_1	592215.431	1068752.823	44.785
7_014_2	592658.284	1068756.496	45.071
7_014_3	594654.009	1068695.635	49.111
7_014_4	594731.824	1068695.645	49.339
7_014_5	597043.712	1068663.584	50.127
7_014_6	597124.098	1068697.240	50.506
7_015_1	592177.175	1071116.698	47.987
7_015_2	592302.046	1071105.207	48.137
7_015_3	594447.173	1071051.741	50.231
7_015_4	595066.330	1071021.079	50.611
7_015_5	596929.411	1071087.042	51.298
7_015_6	597037.675	1071194.168	51.721
7_016_1	592101.963	1073603.428	51.537
7_016_2	592287.434	1073607.119	51.328
7_016_3	594429.577	1073658.897	54.453
7_016_4	594449.091	1073664.646	54.821
7_016_5	596374.871	1073634.437	54.015
7_016_6	596466.852	1073605.430	54.107
7_017_1	592163.601	1076168.943	50.690
7_017_2	592350.546	1076172.411	51.596
7_017_3	594747.464	1076083.681	56.090
7_017_4	594845.371	1076150.076	56.141
7_017_5	596712.879	1076355.104	57.221
7_017_6	596755.666	1076360.266	56.780
7_018_1	592358.973	1078776.939	47.815



7_018_2	592480.381	1078745.573	48.420
7_018_3	594611.196	1078593.855	52.360
7_018_4	594768.199	1078618.531	51.192
7_018_5	596984.452	1078623.226	54.123
7_018_6	596650.262	1078615.006	55.468
7_019_1	592125.743	1081235.191	36.520
7_019_2	592445.205	1081238.073	39.064
7_019_3	594706.252	1081116.116	49.792
7_019_4	594845.954	1081098.929	49.988
7_019_5	596900.258	1081313.134	54.324
7_019_6	596821.430	1081381.393	54.116
7_020_1	592585.453	1083898.460	27.740
7_020_2	592662.212	1083952.641	27.701
7_020_3	594218.667	1083884.553	36.666
7_020_4	594864.103	1083925.168	39.692
7_020_5	597026.792	1083690.881	51.763
7_020_6	596997.015	1083825.666	50.555
7_021_1	593830.732	1085967.718	29.130
7_021_2	593853.467	1085953.333	30.081
7_021_3	594535.299	1086439.674	31.020
7_021_4	594799.620	1086361.721	32.045
7_021_5	597279.825	1086345.085	27.522
7_021_6	597418.389	1086434.063	26.327
7_022_1	592343.223	1088837.545	39.579
7_022_2	592529.758	1088860.585	39.675
7_022_3	594320.771	1088959.671	39.352
7_022_4	594352.236	1089065.616	40.598
7_022_5	596819.485	1088780.674	50.247
7_022_6	596776.019	1089114.504	49.314
7_023_1	591837.350	1091366.358	37.964
7_023_2	592285.019	1091443.382	39.475
7_023_3	594575.588	1091361.338	43.232
7_023_4	594778.622	1091413.130	44.640
7_023_5	596604.148	1091389.356	48.653
7_023_6	597117.630	1091432.956	47.894
7_024_1	592086.845	1093866.342	47.483
7_024_2	591969.824	1094005.037	47.462
7_024_3	594438.781	1093904.204	52.999
7_024_4	594622.484	1093732.732	54.886
7_024_5	596790.122	1093982.672	48.154
7_024_6	596796.797	1093865.493	48.472
7_025_1	592252.841	1096399.313	37.226
7_025_2	592360.024	1096476.504	35.972
7_025_3	594688.866	1096381.849	42.626



7_025_4	594831.303	1096436.831	42.739
7_025_5	596744.335	1096418.987	47.882
7_025_6	596711.805	1096548.172	47.473
7_026_1	592022.669	1099085.137	42.875
7_026_2	592421.859	1099008.816	42.078
7_026_3	594383.679	1099044.162	42.076
7_026_4	594595.736	1099094.551	42.087
7_026_5	596812.430	1098931.181	43.459
7_026_6	596789.777	1098747.178	42.025
7_027_1	592265.453	1101571.433	48.517
7_027_2	592507.244	1101748.326	49.503
7_027_3	594546.513	1101469.521	44.396
7_027_4	594987.449	1101481.775	45.370
7_027_5	596891.930	1101497.591	46.132
7_027_6	596909.371	1101607.272	46.656
7_028_1	592185.715	1104058.772	56.505
7_028_2	592315.099	1104101.089	58.077
7_028_3	594581.424	1104140.467	52.142
7_028_4	594777.675	1104130.051	51.973
7_028_5	596527.313	1104302.486	53.159
7_028_6	596507.094	1104135.072	52.833
7_029_1	592132.691	1106559.731	55.392
7_029_2	592348.028	1106730.605	54.416
7_029_3	594335.297	1107004.603	53.176
7_029_4	594241.385	1106778.508	55.346
7_029_5	596875.252	1106592.606	55.256
7_029_6	596963.725	1106793.922	57.063
7_030_1	592114.922	1109276.173	50.595
7_030_2	592600.357	1109079.401	51.761
7_030_3	594467.185	1109151.583	51.828
7_030_4	594877.888	1109158.326	52.899
7_030_5	596667.204	1109124.398	48.508
7_030_6	597365.366	1109137.632	48.926
7_031_1	592106.780	1111694.703	48.937
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7_031_3	594616.685	1111660.425	48.754
7_031_4	594813.098	1111649.456	49.748
7_031_5	596925.482	1111750.837	46.450
7_031_6	597192.457	1111691.431	45.771
7_032_1	591916.518	1114405.269	63.313
7_032_2	592567.402	1114377.881	61.749
7_032_3	595255.347	1114070.210	54.125
7_032_4	595545.672	1114186.956	53.622
7_032_5	596661.571	1114061.107	51.713



7_032_6	596651.528	1114131.461	52.059
7_033_1	592532.380	1116738.137	68.822
7_033_2	592378.262	1116711.425	68.948
7_033_3	594551.943	1116646.494	61.783
7_033_4	594555.751	1116713.284	60.812
7_033_5	597001.020	1116610.265	52.517
7_033_6	597137.323	1116659.571	53.823
7_034_1	592410.994	1119256.046	72.189
7_034_2	592596.454	1119274.749	68.398
7_034_3	594336.480	1119530.855	69.969
7_034_4	594952.412	1119452.966	70.519
7_034_5	596678.751	1119377.189	68.769
7_034_6	596625.926	1119426.051	68.820
7_035_1	591862.109	1121924.471	67.685
7_035_2	591890.783	1121798.066	67.528
7_035_3	594913.183	1121843.985	70.431
7_035_4	594866.610	1121796.388	71.404
7_035_5	596930.861	1121983.458	67.258
7_035_6	596957.453	1121969.724	68.102
7_036_1	592291.248	1124376.969	65.171
7_036_2	592497.738	1124437.847	65.381
7_036_3	594756.942	1124328.112	65.919
7_036_4	594839.292	1124404.459	66.375
7_036_5	596600.558	1124154.250	69.618
7_036_6	597009.429	1124501.763	70.920
7_037_1	592050.346	1127093.815	66.812
7_037_2	592390.169	1127025.428	66.662
7_037_3	594439.013	1126803.519	68.381
7_037_4	594734.499	1126972.156	69.153
7_037_5	596943.787	1127060.911	75.938
7_037_6	597005.774	1127060.938	73.486
7_038_1	592252.586	1129495.404	67.763
7_038_2	592361.603	1129463.249	67.885
7_038_3	594770.179	1129731.544	73.309
7_038_4	594929.373	1129294.502	74.276
7_038_5	597027.804	1129348.292	75.427
7_038_6	597159.987	1129445.358	76.237
7_039_1	593391.281	1132006.845	68.588
7_039_2	593431.376	1132029.241	68.383
7_039_3	594431.363	1131982.738	71.763
7_039_4	594598.555	1132073.662	72.542
7_039_5	597258.581	1132026.023	75.796
7_039_6	597466.466	1132043.131	76.366
7_040_1	592183.791	1134514.288	68.569



7_040_2	592391.673	1134533.405	68.785
7_040_3	594695.651	1134541.332	70.935
7_040_4	594900.261	1134555.519	71.246
7_040_5	596653.507	1134379.027	73.565
7_040_6	596749.253	1134407.749	73.976
7_041_1	592185.696	1137082.294	84.661
7_041_2	592459.582	1137138.882	83.352
7_041_3	594680.778	1136897.931	84.888
7_041_4	594833.063	1136900.300	85.046
7_041_5	596855.744	1136821.267	85.365
7_041_6	597196.971	1136815.631	85.885
7_042_1	592323.350	1139685.072	95.148
7_042_2	592544.792	1139692.962	96.193
7_042_3	594392.973	1139377.877	98.729
7_042_4	594791.439	1139451.293	97.001
7_042_5	596738.361	1139649.783	89.254
7_042_6	597210.389	1139672.957	90.503
7_043_1	592463.222	1142196.323	90.848
7_043_2	592500.556	1142155.053	91.365
7_043_3	594672.342	1142060.234	101.412
7_043_4	594890.448	1142025.598	100.367
7_043_5	596959.592	1141999.263	93.991
7_043_6	597064.982	1142125.661	94.823
7_044_1	592462.991	1144656.676	70.062
7_044_2	592856.934	1144666.084	78.316
7_044_3	594601.281	1144563.498	96.342
7_044_4	594898.289	1144528.446	98.241
7_044_5	596872.556	1144431.671	100.010
7_044_6	597091.868	1144520.771	98.831
7_045_1	592995.961	1147527.499	62.364
7_045_2	593095.920	1147260.717	59.944
7_045_3	594574.700	1147024.481	67.509
7_045_4	594840.491	1147089.792	68.124
7_045_5	596774.888	1147002.640	79.779
7_045_6	597059.190	1147027.276	80.445
7_046_1	592076.092	1149947.623	85.784
7_046_2	592663.586	1149737.100	81.940
7_046_3	594896.306	1149681.527	85.702
7_046_4	595089.572	1149633.590	89.201
7_046_5	596806.013	1149524.984	93.159
7_046_6	597048.701	1149639.674	94.695
7_047_1	592475.138	1152260.921	89.457
7_047_2	592699.102	1152314.554	86.000
7_047_3	594614.632	1151962.163	75.295



7_047_4	595060.088	1152256.871	84.545
7_047_5	596808.762	1152142.080	105.360
7_047_6	597096.469	1152226.623	107.150
7_048_1	592358.782	1154853.927	92.102
7_048_2	593199.802	1154902.837	86.836
7_048_3	594623.862	1154724.899	75.895
7_048_4	594853.857	1154840.696	72.163
7_048_5	597144.531	1154867.069	97.554
7_048_6	597283.636	1154821.298	98.082
7_049_1	592324.068	1157443.023	97.482
7_049_2	592487.841	1157325.032	96.828
7_049_3	594668.730	1157213.702	87.510
7_049_4	594755.557	1157289.084	86.728
7_049_5	596999.113	1157150.624	90.826
7_049_6	597142.680	1157190.222	91.041
7_050_1	592370.469	1160111.655	93.966
7_050_2	592618.139	1160039.805	92.817
7_050_3	594806.889	1159701.253	83.602
7_050_4	594932.262	1159757.316	82.212
7_050_5	596091.011	1159854.314	77.206
7_050_6	596082.187	1159823.692	75.245
7_051_1	592129.260	1162540.732	107.102
7_051_2	592370.842	1162474.760	105.674
7_051_3	594625.097	1162440.904	95.400
7_051_4	594853.184	1162415.674	97.156
7_051_5	596923.013	1162315.529	94.071
7_051_6	596977.459	1162362.033	93.688
7_052_1	592348.947	1164983.038	109.582
7_052_2	592725.821	1164956.646	104.186
7_052_3	594627.994	1164769.443	101.533
7_052_4	594777.559	1164779.041	101.217
7_052_5	597075.881	1164925.899	98.354
7_052_6	597137.740	1164961.654	98.276
7_053_1	592585.916	1167431.125	101.627
7_053_2	592603.843	1167517.551	102.288
7_053_3	594587.774	1167335.055	95.644
7_053_4	594817.904	1167383.321	93.708
7_053_5	596922.938	1167305.540	95.844
7_053_6	597069.500	1167387.005	94.675
8_001_1	601643.993	1035902.142	33.046
8_001_2	601489.065	1035876.977	33.703
8_001_3	599142.044	1035750.013	32.153
8_001_4	598944.389	1035851.831	31.596
8_001_5	596856.407	1035902.281	31.677



8_001_6	596597.116	1035782.712	31.887
8_002_1	601525.235	1038414.358	34.771
8_002_2	601371.050	1038464.940	34.375
8_002_3	599389.194	1038490.040	33.447
8_002_4	599477.231	1038118.122	33.631
8_002_5	596614.432	1038417.174	32.273
8_002_6	596600.227	1038063.985	31.815
8_003_1	601449.209	1041085.388	36.934
8_003_2	601320.072	1040914.086	37.347
8_003_3	599445.968	1040880.487	31.658
8_003_4	599000.875	1040843.222	31.846
8_003_5	596826.814	1040816.713	33.787
8_003_6	596651.551	1040811.914	33.538
8_004_1	601566.825	1043474.054	36.128
8_004_2	601348.245	1043287.568	36.245
8_004_3	599217.907	1043308.837	32.330
8_004_4	598736.528	1043349.962	33.936
8_004_5	596776.080	1043211.854	34.318
8_004_6	596659.823	1043237.447	33.951
8_005_1	601425.388	1045824.168	36.483
8_005_2	601190.255	1045812.040	36.996
8_005_3	599052.217	1045757.987	38.582
8_005_4	598947.760	1045784.506	38.922
8_005_5	596927.452	1045748.856	37.300
8_005_6	596942.894	1045637.749	37.137
8_006_1	601537.338	1048536.546	38.857
8_006_2	601367.488	1048542.781	39.079
8_006_3	599129.708	1048261.760	40.305
8_006_4	599043.607	1048259.235	40.440
8_006_5	596706.983	1048439.775	39.410
8_006_6	596648.733	1048303.566	39.347
8_007_1	601171.150	1050985.282	41.861
8_007_2	600999.187	1050993.157	41.751
8_007_3	599146.330	1051182.656	42.347
8_007_4	598941.728	1051083.727	41.473
8_007_5	596844.039	1051052.000	42.177
8_007_6	596577.193	1050977.381	41.918
8_008_1	601365.633	1053609.614	42.098
8_008_2	601296.579	1053589.957	42.216
8_008_3	599191.099	1053523.302	43.042
8_008_4	598945.802	1053533.804	43.510
8_008_5	597263.156	1053391.828	43.985
8_008_6	596249.617	1053602.220	40.100
8_009_1	601602.005	1056044.723	43.033



8_009_2	601131.129	1056147.314	43.480
8_009_3	599396.775	1056029.571	43.277
8_009_4	599068.470	1056016.436	43.847
8_009_5	596679.027	1056176.963	46.338
8_009_6	596568.059	1055882.463	45.004
8_010_1	601527.189	1058701.928	42.295
8_010_2	601340.070	1058634.244	43.874
8_010_3	599211.502	1058676.749	44.872
8_010_4	599064.998	1058578.424	45.143
8_010_5	597062.606	1058549.508	47.760
8_010_6	596912.205	1058462.108	47.533
8_011_1	601602.094	1061272.013	44.994
8_011_2	601414.350	1061270.234	43.901
8_011_3	599076.034	1061172.657	44.905
8_011_4	598892.056	1061165.630	46.527
8_011_5	597012.572	1061008.359	46.403
8_011_6	596936.195	1060802.212	45.200
8_012_1	601251.483	1063727.087	47.218
8_012_2	601289.120	1063827.302	47.614
8_012_3	599141.761	1063763.036	45.475
8_012_4	598927.884	1063758.401	45.657
8_012_5	596846.783	1063575.038	47.454
8_012_6	596614.215	1063637.073	47.697
8_013_1	601476.957	1066206.240	49.597
8_013_2	601312.036	1066193.848	49.645
8_013_3	598951.651	1066113.583	48.973
8_013_4	598839.564	1066153.742	48.609
8_013_5	596647.658	1066303.598	47.224
8_013_6	596714.513	1066049.692	47.378
8_014_1	601467.149	1068858.651	52.534
8_014_2	601318.619	1068853.244	52.670
8_014_3	599150.168	1068923.586	50.495
8_014_4	599012.758	1068667.395	49.888
8_014_5	596816.813	1068796.157	50.264
8_014_6	596710.917	1068809.951	50.462
8_015_1	601578.458	1071368.226	55.175
8_015_2	601377.951	1071244.220	54.798
8_015_3	599180.665	1071465.748	54.806
8_015_4	599135.405	1071460.895	54.473
8_015_5	596931.297	1071273.201	51.158
8_015_6	596753.952	1071285.614	49.434
8_016_1	601570.397	1073766.034	55.625
8_016_2	601365.366	1073804.996	53.886
8_016_3	599170.429	1073801.232	58.608

8_016_4	598928.426	1073762.303	58.177
8_016_5	596697.971	1074029.492	54.318
8_016_6	596561.319	1073807.673	55.123
8_017_1	601344.681	1076334.732	56.448
8_017_2	601236.779	1076247.497	56.268
8_017_3	599510.131	1075962.782	57.730
8_017_4	599481.120	1075966.796	56.634
8_017_5	596836.893	1076599.652	56.825
8_017_6	596742.391	1076364.240	56.974
8_018_1	601365.749	1078940.160	58.572
8_018_2	601174.139	1078951.889	58.718
8_018_3	599103.020	1078990.106	56.910
8_018_4	598919.834	1079027.988	57.366
8_018_5	596846.259	1078975.298	54.971
8_018_6	596858.119	1078818.230	55.333
8_019_1	601496.512	1081458.025	57.862
8_019_2	601410.713	1081431.894	57.235
8_019_3	599125.334	1081479.715	57.617
8_019_4	598875.821	1081489.865	57.325
8_019_5	596873.528	1081536.576	54.835
8_019_6	596643.102	1081579.455	53.808
8_020_1	601523.316	1084066.382	68.680
8_020_2	601395.113	1083962.131	68.782
8_020_3	599283.973	1084031.021	65.588
8_020_4	598866.623	1084078.176	62.586
8_020_5	596895.933	1084080.984	47.455
8_020_6	596720.752	1084038.938	46.692
8_021_1	601567.680	1086663.290	55.809
8_021_2	601518.821	1086516.452	57.151
8_021_3	599257.866	1086598.779	29.341
8_021_4	599059.221	1086447.495	31.139
8_021_5	597343.320	1086374.233	27.904
8_021_6	597607.505	1086381.583	27.399
8_022_1	601596.267	1088936.628	45.433
8_022_2	601390.008	1089000.112	42.750
8_022_3	599139.341	1089081.436	43.165
8_022_4	598967.300	1089070.109	45.817
8_022_5	596748.109	1089144.254	49.092
8_022_6	596611.521	1089121.182	48.899
8_023_1	601030.042	1091586.075	33.820
8_023_2	600690.761	1091667.849	31.062
8_023_3	599479.284	1091567.434	39.016
8_023_4	599069.572	1091458.134	41.076
8_023_5	596854.661	1091520.115	48.739

8_023_6	596701.086	1091430.607	48.612
8_024_1	601499.967	1094133.402	35.969
8_024_2	601325.289	1094240.581	38.254
8_024_3	599186.532	1093973.249	49.663
8_024_4	598959.726	1093992.782	48.459
8_024_5	596800.133	1094048.936	48.013
8_024_6	596602.471	1093943.210	49.517
8_025_1	601492.379	1096653.031	38.930
8_025_2	601435.595	1096567.284	39.309
8_025_3	599067.970	1096726.127	46.256
8_025_4	598888.721	1096688.345	46.498
8_025_5	596884.276	1096557.703	46.633
8_025_6	596842.464	1096531.487	46.849
8_026_1	601531.724	1099280.189	41.261
8_026_2	601250.708	1099286.604	40.653
8_026_3	598825.775	1099181.913	40.808
8_026_4	598661.324	1099152.270	40.152
8_026_5	596640.593	1099256.644	42.703
8_026_6	596450.573	1099335.539	43.184
8_027_1	601403.153	1101886.816	50.717
8_027_2	601250.780	1101872.078	50.264
8_027_3	599750.793	1101746.551	43.064
8_027_4	599701.407	1101552.590	42.225
8_027_5	596696.724	1101736.572	47.666
8_027_6	596782.929	1101671.271	46.825
8_028_1	601354.918	1104281.685	57.019
8_028_2	601180.377	1104279.494	56.856
8_028_3	599109.413	1104288.927	57.589
8_028_4	598767.109	1104289.596	57.236
8_028_5	596505.246	1104192.247	52.642
8_028_6	596513.439	1104129.409	52.862
8_029_1	601288.187	1106761.795	55.183
8_029_2	601262.605	1106804.773	55.662
8_029_3	598491.219	1106852.379	54.123
8_029_4	598496.447	1106947.866	54.868
8_029_5	596644.998	1106851.951	56.107
8_029_6	596559.298	1106808.993	55.768
8_030_1	601652.249	1109239.728	42.899
8_030_2	601375.437	1109230.738	43.338
8_030_3	599215.090	1109409.283	45.657
8_030_4	598768.114	1109298.020	47.258
8_030_5	596713.916	1109383.784	49.800
8_030_6	596559.220	1109409.293	50.467
8_031_1	601544.830	1111756.352	39.741



8_031_2	601302.084	1111747.776	40.099
8_031_3	599209.483	1111865.925	43.287
8_031_4	598903.106	1111873.685	43.511
8_031_5	596890.535	1111981.336	46.147
8_031_6	596482.598	1111985.808	49.398
8_032_1	601333.392	1114344.983	41.866
8_032_2	601189.560	1114196.321	41.976
8_032_3	599300.708	1114309.197	57.595
8_032_4	599207.871	1114214.271	58.224
8_032_5	596685.097	1114452.030	53.872
8_032_6	596617.993	1114395.111	53.748
8_033_1	601467.415	1116845.125	41.980
8_033_2	601379.850	1116914.403	42.371
8_033_3	599271.978	1117023.748	41.506
8_033_4	599047.391	1117035.423	42.302
8_033_5	596886.888	1116873.589	56.900
8_033_6	596864.746	1116784.668	55.314
8_034_1	601424.854	1119458.771	62.675
8_034_2	601272.518	1119473.356	63.483
8_034_3	599584.284	1119475.282	57.707
8_034_4	598984.507	1119621.053	52.802
8_034_5	596677.682	1119403.079	68.501
8_034_6	596552.913	1119447.199	68.985
8_035_1	601501.049	1121989.553	76.277
8_035_2	601062.659	1121882.249	77.190
8_035_3	599089.414	1121877.203	75.961
8_035_4	598681.573	1121915.103	76.123
8_035_5	596902.409	1122161.246	67.314
8_035_6	596790.201	1122234.209	64.749
8_036_1	601597.810	1124745.303	82.794
8_036_2	601601.849	1124538.472	82.216
8_036_3	598157.996	1124393.041	76.996
8_036_4	598117.879	1124509.047	77.660
8_036_5	596653.148	1124502.999	71.160
8_036_6	596578.820	1124516.578	70.857
8_037_1	600885.822	1127163.323	82.823
8_037_2	600878.086	1127232.901	82.736
8_037_3	599325.897	1127165.283	80.549
8_037_4	599258.015	1127164.832	80.609
8_037_5	596903.689	1127155.493	74.936
8_037_6	596969.759	1127048.591	75.542
8_038_1	601560.183	1129760.056	82.994
8_038_2	601164.440	1129782.031	80.342
8_038_3	598539.062	1129526.589	80.454



8_038_4	598426.268	1129531.115	80.974
8_038_5	596530.481	1129561.982	76.064
8_038_6	596465.846	1129683.011	76.317
8_039_1	601050.888	1132341.504	81.518
8_039_2	601017.696	1132293.592	82.097
8_039_3	597921.278	1132352.129	76.627
8_039_4	598527.868	1132349.323	76.731
8_039_5	597060.008	1132051.425	78.976
8_039_6	596738.370	1132011.164	77.448
8_040_1	601444.065	1134766.607	80.498
8_040_2	601394.579	1134686.093	81.337
8_040_3	600375.249	1134626.596	78.503
8_040_4	600315.011	1134498.391	77.941
8_040_5	597037.957	1134553.892	74.390
8_040_6	596719.288	1134451.430	73.825
8_041_1	601500.802	1137443.173	82.800
8_041_2	601392.323	1137432.523	82.936
8_041_3	599362.480	1137084.178	86.557
8_041_4	599186.491	1137117.740	87.129
8_041_5	596770.802	1137257.216	82.655
8_041_6	596724.086	1137154.336	82.295
8_042_1	601657.696	1139756.042	84.858
8_042_2	601572.371	1139893.179	85.693
8_042_3	599190.373	1139767.331	86.511
8_042_4	599449.781	1139731.726	85.936
8_042_5	596877.401	1139871.467	90.781
8_042_6	597062.074	1139907.239	91.468
8_043_1	601484.428	1142304.163	88.745
8_043_2	601326.180	1142277.138	89.067
8_043_3	599097.998	1142240.085	91.528
8_043_4	599000.664	1142190.716	90.750
8_043_5	596828.868	1142270.368	96.913
8_043_6	596714.298	1142224.214	97.074
8_044_1	601096.934	1144845.069	96.509
8_044_2	601116.207	1144807.769	96.451
8_044_3	599281.903	1144731.261	97.941
8_044_4	599100.371	1144767.652	98.344
8_044_5	596869.638	1144744.947	99.199
8_044_6	596757.381	1144710.335	99.451
8_045_1	601587.333	1147310.110	97.358
8_045_2	601767.263	1147283.247	98.862
8_045_3	599933.104	1147496.823	82.170
8_045_4	597989.890	1147405.275	71.672
8_045_5	596808.757	1147391.012	67.546



8_045_6	596602.071	1147359.834	65.765
8_046_1	601201.018	1149899.978	72.158
8_046_2	601187.942	1149831.347	70.773
8_046_3	599047.829	1149927.030	93.281
8_046_4	598796.607	1149952.772	93.959
8_046_5	596818.095	1150036.308	99.570
8_046_6	596688.340	1149912.470	97.824
8_047_1	601484.880	1152262.492	89.705
8_047_2	601212.816	1152329.336	92.081
8_047_3	599211.516	1152382.803	100.596
8_047_4	598972.084	1152498.780	101.269
8_047_5	596865.336	1152486.156	105.149
8_047_6	596729.656	1152433.207	103.883
8_048_1	601559.303	1154994.418	93.428
8_048_2	601313.488	1154994.344	93.197
8_048_3	599187.534	1155002.180	98.626
8_048_4	598980.552	1154952.720	99.038
8_048_5	596832.140	1154934.909	95.076
8_048_6	596621.006	1154911.327	93.887
8_049_1	601439.429	1157558.654	95.148
8_049_2	601282.674	1157594.818	95.713
8_049_3	599120.122	1157564.769	97.012
8_049_4	598952.816	1157534.777	96.701
8_049_5	596760.588	1157505.512	88.575
8_049_6	596648.979	1157430.414	86.686
8_050_1	601303.063	1160062.846	99.494
8_050_2	601142.968	1160064.719	100.197
8_050_3	599094.740	1160155.842	97.494
8_050_4	598816.286	1160166.549	95.374
8_050_5	596128.978	1160151.731	82.656
8_050_6	596271.258	1160028.612	79.329
8_051_1	601412.986	1162574.645	91.881
8_051_2	601314.020	1162585.138	91.795
8_051_3	598836.669	1162779.236	80.018
8_051_4	598636.457	1162766.984	78.469
8_051_5	596937.205	1162761.381	93.720
8_051_6	597072.526	1162735.198	92.447
8_052_1	601535.019	1165079.794	106.047
8_052_2	601304.013	1164990.834	106.411
8_052_3	599259.490	1165186.538	91.131
8_052_4	599144.859	1165168.417	89.106
8_052_5	596892.444	1165186.109	99.360
8_052_6	596770.943	1165175.738	98.783
8_053_1	601596.587	1167611.382	99.272



8_053_2	601489.288	1167610.538	100.130
8_053_3	599370.251	1167667.578	91.560
8_053_4	598930.687	1167457.072	90.957
8_053_5	596966.331	1167375.265	95.304
8_053_6	596902.809	1167348.548	95.712
9_001_1	600906.509	1035792.557	33.705
9_001_2	601104.136	1035773.771	33.563
9_001_3	603266.101	1035605.388	31.511
9_001_4	603540.947	1035640.704	30.929
9_001_5	605729.961	1035517.537	29.738
9_001_6	605791.740	1035524.291	29.608
9_002_1	601041.845	1038228.599	33.448
9_002_2	601233.530	1038244.652	33.186
9_002_3	603434.227	1038084.861	33.727
9_002_4	603731.682	1038068.440	33.127
9_002_5	605355.405	1037874.812	31.385
9_002_6	605586.526	1037920.162	31.622
9_003_1	600800.750	1040947.329	36.683
9_003_2	601320.839	1040913.437	37.304
9_003_3	603355.578	1040636.955	36.171
9_003_4	603641.987	1040673.937	35.833
9_003_5	605288.940	1040417.288	32.426
9_003_6	605989.320	1040654.126	32.818
9_004_1	601188.216	1043462.723	37.632
9_004_2	601130.573	1043513.930	34.674
9_004_3	603582.214	1043252.962	37.690
9_004_4	603684.302	1043360.958	37.390
9_004_5	605565.514	1043218.429	33.799
9_004_6	605798.319	1043303.546	33.876
9_005_1	601530.825	1045867.098	37.071
9_005_2	601824.597	1045906.512	37.688
9_005_3	603649.759	1046038.595	38.851
9_005_4	603867.098	1045921.549	38.424
9_005_5	605939.919	1045674.927	37.385
9_005_6	606004.531	1045782.252	38.124
9_006_1	600805.386	1048399.777	38.396
9_006_2	601047.940	1048538.887	38.483
9_006_3	603185.462	1048210.440	39.379
9_006_4	603532.844	1048115.727	39.953
9_006_5	605666.720	1048320.388	40.920
9_006_6	605661.432	1048231.389	40.545
9_007_1	600942.733	1050838.300	42.265
9_007_2	601140.698	1050821.397	42.448
9_007_3	603275.534	1051073.019	41.694

9_007_4	603822.287	1051014.459	41.963
9_007_5	605676.575	1050730.219	41.776
9_007_6	605684.251	1050914.905	41.874
9_008_1	600967.925	1053359.293	42.883
9_008_2	601206.826	1053483.622	42.728
9_008_3	603144.980	1053362.892	41.459
9_008_4	603610.395	1053326.282	41.742
9_008_5	605739.443	1053092.423	39.770
9_008_6	606094.695	1053374.434	37.642
9_009_1	601106.797	1056085.765	43.401
9_009_2	601438.894	1056169.897	43.542
9_009_3	603496.087	1056046.495	42.033
9_009_4	603629.158	1055976.416	41.995
9_009_5	605572.277	1055910.683	40.462
9_009_6	605521.872	1055868.362	40.734
9_010_1	601164.133	1058634.674	43.879
9_010_2	601340.404	1058633.390	43.344
9_010_3	603306.274	1058462.029	41.799
9_010_4	603360.813	1058553.464	41.382
9_010_5	606006.630	1058492.501	41.668
9_010_6	605891.856	1058576.786	41.603
9_011_1	601153.473	1061073.825	45.350
9_011_2	601248.727	1061200.317	45.216
9_011_3	603300.695	1060921.365	44.227
9_011_4	603654.586	1061032.954	44.972
9_011_5	605868.678	1060972.818	42.293
9_011_6	605940.544	1061024.087	42.172
9_012_1	600897.520	1063665.941	46.399
9_012_2	601111.670	1063574.546	46.482
9_012_3	603091.222	1063551.386	46.769
9_012_4	603178.416	1063642.075	47.223
9_012_5	605616.964	1063507.261	46.067
9_012_6	605965.955	1063553.765	46.173
9_013_1	600953.080	1066114.572	49.540
9_013_2	601152.527	1066116.733	49.670
9_013_3	603449.163	1065943.380	48.886
9_013_4	603573.488	1066098.943	49.190
9_013_5	605844.372	1065819.509	52.272
9_013_6	605859.315	1065945.780	53.030
9_014_1	601081.525	1068647.427	52.275
9_014_2	601273.820	1068646.019	52.455
9_014_3	603405.529	1068539.581	51.733
9_014_4	603640.262	1068615.310	53.436
9_014_5	605896.213	1068356.991	58.512



9_014_6	605994.970	1068381.219	57.818
9_015_1	601223.143	1071224.147	54.770
9_015_2	601385.710	1071247.458	54.912
9_015_3	603565.379	1071067.587	51.712
9_015_4	603747.006	1071027.859	53.014
9_015_5	605834.676	1070864.631	58.536
9_015_6	605597.807	1070890.104	58.939
9_016_1	601318.570	1073702.073	53.544
9_016_2	601428.584	1073770.455	53.726
9_016_3	603329.736	1073849.969	53.794
9_016_4	603805.189	1073760.028	55.400
9_016_5	605832.863	1073570.581	59.356
9_016_6	605928.456	1073535.111	59.204
9_017_1	601007.696	1076145.662	54.329
9_017_2	601194.305	1076280.410	55.963
9_017_3	603929.812	1076599.288	63.617
9_017_4	603995.270	1076598.535	62.792
9_017_5	605549.736	1076033.627	60.155
9_017_6	605549.888	1075960.864	61.301
9_018_1	601119.968	1078916.578	58.871
9_018_2	601255.539	1078887.994	58.840
9_018_3	603193.902	1078597.710	64.293
9_018_4	603778.903	1078696.385	64.342
9_018_5	605868.738	1078589.079	67.051
9_018_6	605865.006	1078696.337	67.189
9_019_1	600908.472	1081319.014	55.339
9_019_2	601243.897	1081298.602	55.988
9_019_3	603330.712	1081347.413	65.671
9_019_4	603600.439	1081292.736	65.696
9_019_5	605976.945	1081301.832	73.667
9_019_6	605949.226	1081170.902	73.991
9_020_1	600904.996	1083970.496	69.413
9_020_2	601090.251	1083963.832	69.402
9_020_3	603186.944	1083886.733	73.268
9_020_4	603454.336	1083818.272	74.779
9_020_5	605902.145	1083658.904	74.939
9_020_6	605900.584	1084008.897	73.388
9_021_1	600919.039	1086458.900	44.028
9_021_2	601076.968	1086330.648	50.828
9_021_3	603281.410	1086389.180	69.668
9_021_4	603568.821	1086451.444	70.922
9_021_5	605938.257	1086283.866	74.441
9_021_6	605951.309	1086414.766	73.688
9_022_1	600962.497	1088965.703	35.153



9_022_2	601381.914	1089002.915	42.479
9_022_3	603313.731	1088881.371	61.499
9_022_4	603350.472	1089014.619	62.273
9_022_5	605646.927	1089013.869	59.967
9_022_6	606037.356	1088841.856	60.706
9_023_1	601023.093	1091587.479	33.694
9_023_2	601076.003	1091648.830	33.814
9_023_3	603320.054	1091322.420	53.282
9_023_4	603470.215	1091332.781	54.641
9_023_5	606054.764	1091511.900	56.837
9_023_6	605954.388	1091306.706	58.720
9_024_1	600840.773	1093948.886	42.536
9_024_2	600985.714	1094051.036	42.017
9_024_3	603288.229	1093982.962	31.096
9_024_4	603309.166	1093996.758	31.669
9_024_5	605938.461	1093932.733	40.016
9_024_6	605863.167	1094011.921	37.728
9_025_1	600985.214	1096511.947	40.601
9_025_2	601438.055	1096569.279	39.259
9_025_3	603340.669	1096487.011	43.828
9_025_4	603584.952	1096504.897	43.413
9_025_5	605918.462	1096609.932	43.481
9_025_6	605912.746	1096521.077	42.849
9_026_1	600996.508	1099195.413	39.965
9_026_2	601255.152	1099146.366	40.307
9_026_3	603387.768	1098937.393	43.723
9_026_4	603683.095	1098970.703	43.927
9_026_5	605765.583	1098912.869	44.230
9_026_6	605860.786	1099073.531	44.221
9_027_1	600867.299	1101447.310	46.323
9_027_2	601034.152	1101445.297	46.668
9_027_3	603420.055	1101424.215	42.821
9_027_4	603144.068	1101430.948	44.821
9_027_5	606001.432	1101570.958	45.296
9_027_6	605996.928	1101780.838	44.700
9_028_1	600859.282	1104057.118	55.059
9_028_2	600890.821	1104243.843	56.073
9_028_3	603509.815	1103844.775	53.765
9_028_4	603641.183	1103836.063	51.418
9_028_5	605976.069	1103888.574	43.522
9_028_6	605979.021	1104320.858	41.939
9_029_1	600917.593	1106655.084	56.681
9_029_2	601185.536	1106649.232	55.090
9_029_3	603472.615	1106731.240	49.534



9_029_4	603516.680	1106819.728	49.363
9_029_5	605791.425	1106427.792	37.825
9_029_6	605691.123	1106491.154	37.520
9_030_1	601193.279	1109220.869	44.083
9_030_2	601314.906	1109295.236	43.020
9_030_3	603491.937	1109161.096	44.680
9_030_4	603564.408	1109091.401	44.158
9_030_5	605806.523	1109401.798	40.034
9_030_6	606024.177	1109198.666	40.538
9_031_1	601563.949	1111762.598	39.410
9_031_2	601481.102	1111629.015	39.504
9_031_3	603173.436	1111538.229	41.148
9_031_4	603289.128	1111521.146	40.237
9_031_5	605663.161	1111998.410	41.213
9_031_6	605866.840	1112038.057	41.358
9_032_1	601019.817	1114188.203	41.595
9_032_2	601168.435	1114196.783	43.082
9_032_3	604520.153	1114206.580	41.547
9_032_4	604413.153	1113992.099	41.887
9_032_5	605819.208	1114386.439	41.565
9_032_6	605984.572	1114371.226	41.072
9_033_1	600839.156	1116573.362	42.177
9_033_2	601482.652	1116864.798	42.996
9_033_3	603343.260	1116738.601	46.442
9_033_4	603585.055	1116694.962	45.354
9_033_5	605693.525	1116740.085	49.631
9_033_6	605851.375	1116884.500	49.985
9_034_1	601000.928	1119112.395	61.099
9_034_2	601030.238	1119102.431	60.673
9_034_3	603469.039	1119218.629	57.793
9_034_4	603311.472	1119434.360	57.819
9_034_5	605727.811	1119072.728	58.197
9_034_6	606094.326	1119252.328	59.037
9_035_1	600996.981	1121783.292	76.775
9_035_2	601234.511	1121795.947	76.180
9_035_3	603479.213	1121768.436	63.526
9_035_4	603616.279	1121762.126	62.775
9_035_5	605859.011	1121597.842	60.286
9_035_6	605806.512	1121808.173	60.417
9_036_1	600934.180	1124475.175	82.656
9_036_2	600996.157	1124448.030	82.533
9_036_3	603336.871	1124419.698	78.440
9_036_4	603525.767	1124406.515	76.414
9_036_5	605596.470	1124381.117	68.863



9_036_6	605818.622	1124413.930	70.493
9_037_1	600881.055	1126899.371	84.530
9_037_2	600883.548	1126999.176	82.717
9_037_3	603241.188	1126873.683	80.212
9_037_4	603444.339	1126856.785	80.255
9_037_5	605632.166	1126954.435	78.631
9_037_6	605803.759	1126959.440	77.166
9_038_1	600958.492	1129357.076	79.666
9_038_2	600958.950	1129465.634	80.082
9_038_3	603511.719	1129280.430	80.311
9_038_4	603468.702	1129405.107	80.467
9_038_5	605608.674	1129157.839	81.122
9_038_6	605546.455	1129206.208	81.580
9_039_1	601012.860	1131835.713	82.972
9_039_2	601011.860	1131958.266	82.784
9_039_3	603324.427	1131795.531	81.047
9_039_4	603566.215	1131787.209	80.550
9_039_5	605703.497	1131814.752	82.558
9_039_6	605724.841	1131988.402	81.881
9_040_1	601336.398	1134510.474	81.395
9_040_2	601362.762	1134608.405	81.154
9_040_3	603604.907	1134474.702	81.787
9_040_4	603724.659	1134372.271	83.833
9_040_5	605595.877	1134572.177	84.532
9_040_6	606111.666	1134449.625	84.438
9_041_1	600850.898	1136914.561	82.875
9_041_2	601440.980	1137024.141	82.944
9_041_3	603477.325	1137039.527	86.195
9_041_4	603485.698	1136960.463	85.299
9_041_5	605681.878	1136986.110	83.444
9_041_6	605610.006	1136999.828	82.890
9_042_1	600929.442	1139430.201	91.148
9_042_2	601088.492	1139285.624	86.763
9_042_3	603181.526	1139633.920	80.980
9_042_4	603379.917	1139631.699	80.589
9_042_5	605614.075	1139659.349	87.097
9_042_6	605590.406	1139798.707	86.307
9_043_1	601038.793	1142205.408	89.186
9_043_2	601234.965	1142237.522	88.981
9_043_3	603364.898	1141895.798	82.964
9_043_4	603528.830	1142095.252	82.704
9_043_5	605633.496	1142103.788	87.393
9_043_6	605630.762	1142378.474	89.278
9_044_1	600957.614	1144555.358	94.439



9_044_2	601220.742	1144526.306	94.750
9_044_3	603205.559	1144550.618	95.817
9_044_4	603413.642	1144561.433	94.830
9_044_5	605521.724	1144772.460	124.363
9_044_6	605750.910	1144883.456	128.134
9_045_1	600826.726	1146932.916	92.949
9_045_2	600975.493	1147167.438	92.092
9_045_3	603132.993	1147109.915	98.484
9_045_4	603349.606	1147188.637	99.717
9_045_5	605490.517	1147228.181	99.999
9_045_6	605489.264	1147224.779	99.892
9_046_1	601170.912	1149802.520	70.804
9_046_2	601213.796	1149862.935	71.784
9_046_3	603315.411	1149671.256	81.342
9_046_4	603341.088	1149569.814	81.709
9_046_5	605579.376	1149722.205	84.890
9_046_6	605658.395	1149675.527	85.147
9_047_1	600872.775	1152079.329	95.178
9_047_2	601016.453	1152162.872	94.043
9_047_3	603254.971	1152215.824	90.465
9_047_4	603398.721	1152288.906	90.141
9_047_5	605682.203	1152332.748	88.268
9_047_6	605725.708	1152388.103	88.957
9_048_1	600850.455	1154591.955	91.833
9_048_2	601071.736	1154615.047	91.959
9_048_3	603059.699	1154845.315	93.568
9_048_4	603506.134	1154823.539	95.757
9_048_5	605506.344	1154861.314	103.661
9_048_6	605695.618	1154845.974	103.136
9_049_1	600843.459	1157066.655	96.536
9_049_2	600938.665	1157208.007	96.485
9_049_3	603144.777	1157176.015	99.392
9_049_4	603325.036	1157284.307	100.766
9_049_5	605457.347	1157366.273	102.244
9_049_6	605570.733	1157395.319	101.954
9_050_1	600819.551	1159707.566	101.567
9_050_2	601097.683	1159672.924	100.207
9_050_3	603207.541	1159749.603	102.142
9_050_4	603461.744	1159773.052	102.387
9_050_5	605536.614	1159845.644	103.215
9_050_6	605661.150	1159965.530	103.087
9_051_1	600719.453	1162346.284	84.204
9_051_2	601233.307	1162442.099	88.745
9_051_3	603332.672	1162292.728	88.084



9_051_4	603495.517	1162287.322	87.364
9_051_5	605530.344	1162398.259	90.502
9_051_6	605703.570	1162420.565	90.372
9_052_1	600995.269	1164695.359	106.632
9_052_2	601176.866	1164706.555	106.950
9_052_3	603260.158	1164782.013	99.709
9_052_4	603431.539	1164783.238	98.421
9_052_5	605723.253	1165085.901	101.247
9_052_6	605587.300	1165126.607	100.979
9_053_1	600800.587	1167292.177	98.729
9_053_2	600892.752	1167455.817	99.189
9_053_3	603151.043	1167507.614	100.516
9_053_4	603486.928	1167518.481	101.456
9_053_5	605504.258	1167717.900	102.516
9_053_6	605803.662	1167560.053	102.716
HV-01	567140.950	1048179.939	30.700
HV-02	582229.488	1038050.462	31.775
HV-03	592212.718	1039619.011	33.700
HV-04	605236.341	1039487.500	34.506
HV-05	622856.360	1039474.295	40.027
HV-06	633491.737	1042403.585	41.254
HV-07	629973.522	1079007.059	74.759
HV-08	612384.208	1090458.244	51.249
HV-09	587403.825	1070861.985	37.823
HV-10	569052.561	1099107.245	68.848
HV-11	636420.578	1140249.484	97.833
HV-12	610573.287	1136375.251	73.790
HV-13	584685.800	1141562.499	91.945
HV-14	567456.584	1141597.000	65.512
HV-15	625819.069	1164454.323	114.572
HV-16	614917.710	1167449.576	118.632
HV-17	599598.028	1165436.520	97.328
HV-18	582984.608	1165788.363	125.434
HV-19	570286.866	1165022.450	96.718
HVL-01	625223.798	1039621.287	39.918
HVL-02	620905.429	1083492.954	65.501
HVL-03	626455.000	1164465.768	114.308
HVL-04	571859.303	1045917.421	29.017
HVL-05	574845.424	1109909.055	67.135
HVL-06	574481.083	1165206.657	100.910
HVL-07	594508.581	1039534.238	31.615
HVL-08	596708.138	1098649.106	42.284
HVL-09	599619.501	1164092.364	94.496
HVL-10	592923.954	1070794.668	47.945



HVL-11 620958.926 1134549.111 81.308

8.4 Exterior Orientation Parameters

<u>Frame</u>	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>Omega</u>	<u>Phi</u>	<u>Kappa</u>
001 001	568138.282	1035644.267	4290.074	-0.350273	0.831975	97.219511
001 002	568183.680	1038190.748	4349.634	0.130367	0.917164	98.960879
001 003	568215.326	1040751.886	4299.447	-0.678856	-1.045430	99.783767
001 004	568202.951	1043296.526	4293.042	-0.999044	-0.257455	99.353170
001 005	568202.494	1045832.028	4295.498	-1.063445	-0.163013	98.543179
001 006	568181.654	1048304.154	4322.590	0.416188	-0.779458	99.507495
001 007	568149.901	1050870.023	4334.134	0.668619	0.073810	98.447207
001 008	568146.787	1053439.499	4260.236	-0.558407	0.493718	97.045907
001 009	568153.769	1055924.387	4295.328	0.158500	0.387318	97.922221
001 010	568148.122	1058470.188	4322.022	0.160502	-0.185195	98.656932
001 011	568140.612	1061007.595	4336.184	0.040827	0.260151	98.661597
001 012	568143.371	1063581.281	4298.406	-0.331424	0.266510	98.238829
001 013	568131.875	1066094.028	4275.788	-0.217900	0.205070	98.676776
001 014	568137.395	1068613.136	4277.454	0.305856	0.234309	98.117292
001 015	568126.180	1071175.140	4228.766	-0.636298	0.809725	95.992097
001 016	568129.756	1073668.422	4275.471	0.324975	-0.133302	99.556274
001 017	568118.002	1076217.685	4302.244	0.396928	0.750794	98.428822
001 018	568124.153	1078766.495	4296.437	0.254996	0.143651	97.976346
001 019	568129.509	1081304.970	4311.575	0.048343	0.035463	96.640738
001 020	568153.128	1083875.229	4300.011	-1.035167	-0.081618	97.587734
001 021	568139.204	1086401.394	4302.908	-1.030245	0.065795	98.099388
001 022	568133.491	1088905.977	4345.674	0.115329	0.110725	98.395568
001 023	568126.011	1091501.460	4273.168	-0.963817	0.636816	95.960434
001 024	568153.515	1093982.399	4260.389	-0.706539	0.751332	95.354844
001 025	568148.086	1096498.768	4318.127	0.026207	-0.185201	98.776453
001 026	568152.906	1099031.262	4313.623	0.446274	0.361872	97.146558
001 027	568166.988	1101591.942	4331.207	0.116661	-0.550117	99.229176
001 028	568169.998	1104150.076	4307.400	0.036060	-0.015067	99.091612
001 029	568162.464	1106644.040	4360.536	0.603330	-0.171563	99.137400
001 030	568157.164	1109211.769	4300.586	-0.246238	0.599351	97.060899
001 031	568162.029	1111763.899	4274.377	-0.695380	0.017749	96.286439
001 032	568181.020	1114243.804	4315.635	-0.030227	0.810887	98.601254
001 033	568174.213	1116794.608	4327.724	0.259465	-0.450170	100.255380
001 034	568167.817	1119344.047	4313.570	-0.664979	0.348857	95.681407
001 035	568179.707	1121896.547	4302.621	-0.502591	0.614799	96.444428
001 036	568195.383	1124424.040	4303.828	-0.311812	-0.196086	98.289469
001 037	568192.136	1126960.266	4271.156	-0.227316	0.273446	95.778778
001 038	568197.526	1129471.441	4286.559	0.076751	-0.282815	97.145881
001 039	568187.033	1132035.497	4288.401	-0.288959	0.371694	97.474123
001 040	568186.398	1134556.369	4292.442	0.097145	-0.032113	98.889759
001 041	568174.945	1137080.372	4277.351	0.260344	0.038908	97.768869



001 042 568188.973 1139620.302 4263.615 -0.028334 0.687608 98.057468
001 043 568196.260 1142198.289 4233.598 -1.029570 0.760901 97.815971
001 044 568197.205 1144639.732 4291.846 0.838369 -0.124969 99.281743
001 045 568182.083 1147225.469 4288.507 0.444227 -0.049053 96.681211
001 046 568186.699 1149757.113 4319.412 0.273184 0.531272 99.079415
001 047 568193.929 1152324.791 4314.094 -0.455658 -0.056686 99.591663
001 048 568180.291 1154867.574 4267.924 -0.959943 0.021553 98.784024
001 049 568182.051 1157401.621 4269.793 -0.697449 0.091146 99.130747
001 050 568182.365 1159912.590 4290.357 -0.101655 0.373111 98.222328
001 051 568179.753 1162428.372 4301.941 0.135161 0.252060 97.056495
001 052 568153.376 1165011.373 4281.394 -0.420641 0.187490 97.556514
001 053 568145.201 1167525.117 4272.785 -0.705667 0.512260 96.339852
002 001 572546.366 1035749.710 4301.762 0.271318 -0.575966 -103.054909
002 002 572570.604 1038286.113 4318.753 0.253778 -0.662181 -102.629948
002 003 572579.304 1040822.074 4328.546 0.373080 -0.357992 -102.636966
002 004 572567.361 1043379.439 4330.029 0.099852 0.259819 -102.284537
002 005 572564.557 1045902.142 4327.476 0.200859 -0.697081 -101.575777
002 006 572580.419 1048455.515 4333.156 -0.060989 -0.882069 -100.913814
002 007 572573.992 1051002.999 4318.090 -0.214969 0.016336 -102.244102
002 008 572554.901 1053530.687 4306.772 0.189953 0.364118 -102.129418
002 009 572530.360 1056059.489 4305.747 -0.204338 0.330149 -101.992743
002 010 572534.976 1058596.400 4297.198 0.039928 -0.358187 -102.200105
002 011 572539.328 1061139.893 4337.941 0.031773 0.346496 -99.475979
002 012 572538.461 1063647.939 4349.468 -0.282260 -0.495112 -100.490337
002 013 572555.378 1066187.247 4321.791 -0.694295 -0.622148 -102.222559
002 014 572560.002 1068727.835 4313.485 -0.619894 0.090021 -101.352624
002 015 572542.854 1071268.025 4302.768 0.317195 0.711315 -99.983633
002 016 572536.103 1073792.491 4302.839 1.014307 0.005734 -102.414680
002 017 572545.711 1076321.394 4343.526 1.082308 -0.579230 -101.300359
002 018 572558.759 1078883.079 4392.200 -0.145755 -0.340881 -101.386916
002 019 572565.257 1081439.460 4375.197 -0.754177 -0.414783 -101.765530
002 020 572564.673 1083943.651 4325.574 -0.188289 -0.257496 -102.062340
002 021 572552.776 1086473.588 4321.267 0.090791 -0.439889 -102.118538
002 022 572545.101 1089014.209 4343.265 0.779363 0.111442 -100.574430
002 023 572526.242 1091535.450 4379.530 0.188678 0.077256 -98.479610
002 024 572507.894 1094087.937 4356.304 0.401212 0.810994 -99.718270
002 025 572513.733 1096627.163 4302.164 0.167318 -0.491208 -100.940347
002 026 572527.441 1099135.884 4316.934 0.753918 -0.193128 -101.983042
002 027 572537.981 1101699.758 4391.063 -0.285581 -0.035428 -99.285639
002 028 572533.671 1104240.695 4370.982 -0.112195 0.210621 -101.049931
002 029 572532.905 1106761.471 4343.862 0.530240 -0.274027 -101.619372
002 030 572546.663 1109259.357 4323.438 1.021745 -0.539640 -102.086274
002 031 572552.166 1111840.063 4342.927 0.355022 -0.354684 -103.369860
002 032 572549.858 1114379.901 4343.895 -0.200561 -0.105532 -102.783138



002 033 572538.518 1116920.535 4335.734 0.065997 -0.349760 -100.673960
002 034 572540.530 1119438.518 4304.501 0.201792 -0.507916 -102.993734
002 035 572544.015 1121984.106 4311.305 0.117893 -0.200303 -101.328365
002 036 572544.600 1124530.166 4304.441 0.084969 -0.267495 -98.674790
002 037 572530.220 1127066.587 4319.724 -0.052086 -0.530849 -101.918900
002 038 572519.297 1129574.540 4309.698 0.346959 0.066415 -101.683581
002 039 572507.121 1132127.625 4303.995 0.464545 0.044597 -103.403003
002 040 572509.001 1134636.181 4321.625 0.146313 -0.143227 -101.987655
002 041 572519.839 1137195.848 4325.166 -0.285500 0.023013 -102.415039
002 042 572533.595 1139750.431 4315.810 -0.576379 -0.580507 -102.432436
002 043 572536.233 1142278.691 4292.994 -0.376002 -0.541027 -100.203708
002 044 572550.637 1144798.209 4266.926 -0.111458 -0.319942 -102.838888
002 045 572556.192 1147331.665 4285.599 0.690284 -0.478723 -100.622164
002 046 572564.831 1149868.322 4315.877 0.310563 -0.002754 -101.126803
002 047 572562.225 1152410.186 4309.330 -0.163070 -0.003846 -100.150498
002 048 572568.333 1154943.133 4293.733 -0.192211 -0.333617 -100.883608
002 049 572583.000 1157483.814 4288.261 0.004484 -0.729698 -101.370005
002 050 572596.238 1160027.723 4295.776 0.225826 -0.757695 -101.442844
002 051 572592.532 1162540.149 4293.673 0.736676 0.084806 -99.562947
002 052 572571.631 1165090.801 4283.890 1.387051 0.538328 -99.777079
002 053 572555.942 1167607.074 4294.331 1.651932 0.507003 -98.252652
003 001 576973.546 1035664.274 4319.697 -0.595213 0.827619 101.509641
003 002 576983.017 1038177.437 4309.786 -0.162279 -0.065127 101.279810
003 003 576987.870 1040726.516 4334.757 0.572437 -0.270988 102.545582
003 004 576968.785 1043219.701 4333.201 0.840567 -0.230885 100.114342
003 005 576953.447 1045786.823 4337.731 0.393505 -0.021305 100.405285
003 006 576952.994 1048342.530 4333.508 -0.652721 0.498651 100.327838
003 007 576969.823 1050903.176 4294.983 -1.011485 0.594168 99.357812
003 008 576960.040 1053386.920 4331.066 0.070781 -0.558259 102.614467
003 009 576950.147 1055922.646 4326.411 0.556499 0.108714 99.469763
003 010 576960.635 1058480.868 4313.131 0.291942 0.456850 99.604096
003 011 576975.747 1061010.452 4282.147 -0.055778 -0.118935 99.119872
003 012 576984.336 1063565.483 4277.844 -0.743429 -0.018858 100.952461
003 013 576984.560 1066081.375 4283.914 -0.078632 0.231799 100.796899
003 014 576979.690 1068599.398 4289.364 0.207257 -0.379050 101.343611
003 015 576989.144 1071149.934 4309.270 0.280127 0.496575 99.311008
003 016 576998.928 1073689.112 4326.943 0.401651 -0.705012 103.172333
003 017 576979.059 1076239.406 4303.729 -0.010123 -0.190056 100.939610
003 018 576983.158 1078776.195 4294.500 -0.335054 0.307991 101.409900
003 019 576985.339 1081314.249 4251.666 -1.239874 -0.271030 101.448658
003 020 576990.054 1083806.451 4322.428 0.526608 0.018604 102.747715
003 021 576994.267 1086364.322 4290.590 -0.110770 -0.052532 99.300041
003 022 576975.484 1088910.213 4304.479 -0.120965 -0.286517 104.236765
003 023 576962.540 1091417.942 4317.062 0.725523 0.431602 102.056129

003 024 576969.872 1094002.449 4315.861 -0.001620 0.217221 103.362864
003 025 576955.221 1096504.634 4329.799 0.015684 0.214510 103.283587
003 026 576958.174 1099050.585 4302.600 -0.274981 0.321837 103.498924
003 027 576964.084 1101578.862 4274.143 0.159221 0.377333 101.780435
003 028 576969.976 1104120.411 4264.275 0.091406 0.278295 99.388443
003 029 576980.795 1106635.484 4288.298 -0.107250 0.493125 99.613910
003 030 576997.585 1109209.843 4285.717 -0.622877 -0.499157 102.971806
003 031 576977.088 1111750.046 4250.165 -0.821590 0.100038 100.497187
003 032 576981.923 1114278.850 4229.155 -0.669408 0.373582 101.312988
003 033 576982.123 1116761.762 4260.242 1.202349 -0.226040 100.813443
003 034 577001.777 1119362.649 4241.925 0.424889 0.536965 99.238530
003 035 577001.149 1121873.673 4254.509 0.260815 -0.286340 98.405144
003 036 577014.414 1124422.633 4280.539 0.100943 -0.239905 101.006333
003 037 577001.404 1126978.311 4254.982 -0.511389 -0.103396 101.532558
003 038 576989.971 1129482.782 4252.153 -0.119845 0.731121 99.780311
003 039 576985.719 1131992.504 4267.744 -0.072780 0.084501 99.360300
003 040 576990.639 1134586.616 4266.360 -0.723160 0.316304 99.645025
003 041 576974.474 1137091.401 4300.422 -0.605451 0.280695 99.482185
003 042 576980.531 1139642.861 4281.513 -0.781459 -0.053335 100.707857
003 043 576979.145 1142175.534 4251.034 -0.478412 0.615480 99.032688
003 044 576983.214 1144747.959 4229.823 -0.971790 -0.500224 99.317662
003 045 576955.630 1147193.490 4321.333 0.950337 -0.267828 100.556191
003 046 576970.849 1149782.345 4331.735 0.554514 0.322013 99.851745
003 047 576976.768 1152317.518 4309.297 -0.319433 0.451693 99.258927
003 048 576983.451 1154846.305 4324.387 -0.458596 0.016023 100.191925
003 049 576979.637 1157384.115 4326.195 -0.673336 -0.353729 100.621198
003 050 576969.346 1159948.598 4291.662 -0.971138 0.515080 98.942474
003 051 576973.932 1162436.649 4283.201 -0.550990 0.616714 97.116217
003 052 576979.852 1164962.653 4308.300 0.192127 0.248379 98.471939
003 053 576998.743 1167511.424 4289.105 0.185958 0.626916 97.231717
004 001 581449.084 1035770.491 4329.011 0.060273 0.178400 -100.082912
004 002 581438.938 1038317.526 4315.608 0.613038 -0.078401 -99.933178
004 003 581433.067 1040830.934 4343.132 0.684276 -0.430473 -100.094534
004 004 581435.793 1043368.199 4361.932 0.648306 -0.401073 -100.567232
004 005 581421.829 1045902.123 4371.225 -0.396890 -0.315728 -101.605340
004 006 581384.274 1048458.553 4352.595 -0.325190 0.784163 -99.226013
004 007 581346.097 1050964.264 4329.908 0.330295 0.893219 -97.975215
004 008 581325.156 1053538.854 4338.450 0.292472 0.794843 -99.711823
004 009 581332.195 1056048.030 4314.301 0.784119 -1.040301 -100.468100
004 010 581376.930 1058564.319 4303.540 0.984759 -0.920371 -101.792056
004 011 581388.541 1061114.502 4343.667 0.231059 -0.034257 -100.580212
004 012 581373.036 1063686.121 4380.910 -0.569264 -0.134194 -98.553232
004 013 581364.475 1066212.615 4347.808 0.168090 0.695941 -98.215647
004 014 581339.439 1068732.418 4308.228 0.458013 1.368774 -101.364307

004 015 581334.640 1071273.958 4325.849 -0.319536 0.171031 -101.082618
004 016 581366.175 1073832.148 4308.527 -0.309832 -1.045317 -103.223697
004 017 581396.913 1076323.886 4307.741 0.112674 -0.455712 -99.223334
004 018 581400.055 1078872.894 4316.372 -0.440277 0.351381 -100.610157
004 019 581390.339 1081422.511 4316.217 0.225601 0.067206 -101.096173
004 020 581396.121 1083925.419 4317.990 0.727606 -0.335441 -100.418103
004 021 581385.032 1086466.392 4324.747 1.186111 0.228244 -97.529435
004 022 581377.287 1089016.218 4380.490 0.301532 -0.163325 -100.419294
004 023 581357.723 1091565.698 4349.940 0.378029 0.067765 -101.329045
004 024 581358.794 1094109.890 4328.776 0.169047 -0.276292 -101.397942
004 025 581354.824 1096644.948 4332.538 0.025784 -0.182988 -102.095171
004 026 581340.800 1099150.675 4331.710 0.256203 0.308914 -100.827442
004 027 581339.887 1101703.452 4338.701 -0.254287 -0.612967 -101.186586
004 028 581342.529 1104232.067 4304.466 0.347533 0.031116 -101.116957
004 029 581328.812 1106744.561 4298.717 0.736186 0.856046 -100.031154
004 030 581320.497 1109283.479 4316.155 0.693650 1.651561 -99.063194
004 031 581341.933 1111856.540 4309.707 0.340851 0.031616 -99.396935
004 032 581365.076 1114364.077 4322.302 0.066425 -0.020778 -100.271436
004 033 581396.031 1116937.179 4312.995 0.139973 -0.032688 -99.048229
004 034 581420.077 1119473.545 4303.552 -0.136383 -0.064882 -98.256299
004 035 581441.251 1122004.220 4261.033 0.882241 -0.409668 -98.578369
004 036 581440.607 1124494.702 4284.656 1.527548 0.956408 -98.392476
004 037 581438.303 1127059.789 4351.845 0.092911 -1.258992 -105.490702
004 038 581444.519 1129591.606 4358.196 -0.427879 -0.903969 -103.111806
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013 039 621091.462 1132027.845 4324.387 -0.614531 0.166588 97.535612
013 040 621074.469 1134581.203 4296.184 -0.771571 0.490069 96.384252
013 041 621112.275 1137073.936 4318.549 0.144651 0.509866 97.549049
013 042 621120.203 1139583.218 4368.354 0.881137 -0.390508 97.828873
013 043 621105.643 1142164.992 4331.928 0.150559 -0.845497 96.026014
013 044 621097.283 1144715.927 4303.449 -0.310732 0.863122 96.318423
013 045 621109.227 1147218.454 4331.763 0.255505 0.005586 96.498693
013 046 621111.418 1149753.188 4370.728 -0.094398 0.022658 97.392973
013 047 621108.672 1152329.381 4341.854 -0.837972 0.003446 95.972281
013 048 621090.352 1154852.611 4331.716 -0.772907 0.011474 96.335035
013 049 621095.517 1157376.035 4341.169 -0.116666 0.738993 97.264400
013 050 621085.805 1159907.361 4351.211 0.447559 -0.657018 97.957069
013 051 621080.689 1162443.808 4378.314 0.529646 0.661983 96.182175
013 052 621102.221 1165002.956 4359.065 -0.344810 0.101402 98.652997
013 053 621090.794 1167512.015 4356.587 -0.055906 -0.066469 97.752167
014 001 625491.736 1035765.616 4317.936 -0.691942 -0.457184 -101.360535
014 002 625508.724 1038284.298 4318.033 -0.627066 -0.692254 -101.256979
014 003 625504.529 1040823.381 4310.271 -0.622665 -0.331013 -101.064050
014 004 625492.342 1043378.451 4299.699 -0.467740 0.173420 -100.407887
014 005 625461.575 1045917.111 4287.103 0.019507 0.746486 -99.448244
014 006 625453.089 1048438.658 4298.969 0.387284 0.201145 -99.586396
014 007 625457.306 1050962.902 4315.365 0.406006 -0.490255 -100.165532
014 008 625474.795 1053508.609 4348.520 -0.280157 -0.465514 -101.284293
014 009 625494.491 1056034.523 4341.986 -0.592198 -0.945647 -101.747666
014 010 625501.096 1058598.320 4351.095 -0.605545 0.000570 -99.894042
014 011 625476.562 1061117.362 4309.987 0.965524 0.438996 -100.253996
014 012 625471.914 1063613.701 4328.472 1.288501 -0.000718 -101.977542

014 013 625478.568 1066167.179 4362.691 0.949224 -0.404990 -102.360505
014 014 625499.738 1068720.173 4381.761 0.199498 -0.995418 -100.384741
014 015 625490.920 1071255.268 4355.679 0.045424 -0.047718 -101.266115
014 016 625486.966 1073799.077 4349.408 -0.260846 -0.371403 -101.371209
014 017 625490.037 1076333.112 4331.836 -0.733833 -0.273829 -101.304184
014 018 625476.611 1078878.440 4319.382 -0.866265 0.258131 -99.546760
014 019 625474.290 1081401.114 4274.004 -0.243520 0.194727 -99.927508
014 020 625464.861 1083930.406 4273.374 0.373615 -0.180399 -101.789115
014 021 625480.554 1086469.334 4308.008 0.611538 -0.420519 -101.298294
014 022 625494.915 1088995.175 4342.849 0.402167 -0.292878 -100.485342
014 023 625483.332 1091573.865 4352.436 -0.405208 0.057969 -102.618232
014 024 625488.816 1094070.843 4300.554 0.477721 -0.119810 -103.089458
014 025 625498.361 1096624.052 4304.198 0.598292 -0.294458 -102.690689
014 026 625503.682 1099159.048 4323.298 0.389880 -0.234159 -100.646526
014 027 625513.017 1101687.915 4334.273 0.619056 -0.578661 -98.140451
014 028 625527.599 1104198.364 4349.394 0.026562 -1.111507 -99.460935
014 029 625539.444 1106776.443 4338.154 -0.169837 -0.367864 -99.505217
014 030 625498.148 1109307.712 4324.491 -0.383873 0.942483 -99.123270
014 031 625464.612 1111843.783 4311.104 -0.034343 0.671388 -99.357172
014 032 625454.690 1114359.020 4311.836 0.335633 0.303538 -100.332237
014 033 625475.563 1116874.326 4307.571 0.779453 -0.399184 -102.518575
014 034 625506.684 1119431.586 4333.685 0.775354 -0.717511 -100.499421
014 035 625533.329 1121989.063 4374.617 -0.362363 -0.655938 -100.907188
014 036 625526.620 1124538.740 4339.820 -0.137061 -0.038916 -99.832877
014 037 625518.944 1127026.109 4313.428 0.217950 -0.012264 -99.139500
014 038 625517.977 1129576.100 4298.228 0.779306 -0.238112 -99.911605
014 039 625521.165 1132143.060 4352.857 -0.722630 -0.105606 -99.605790
014 040 625529.333 1134660.768 4359.019 -1.030096 -0.189813 -99.306993
014 041 625528.091 1137227.164 4328.720 -1.167675 -0.213861 -99.200505
014 042 625525.681 1139757.636 4281.481 -0.211757 -0.422383 -99.025776
014 043 625533.001 1142290.044 4287.275 0.043327 -0.595250 -100.031494
014 044 625542.529 1144788.626 4301.118 0.283592 -0.657575 -100.084976
014 045 625531.608 1147328.484 4321.417 0.053856 -0.011583 -99.447407
014 046 625513.282 1149863.967 4329.028 -0.330918 0.117261 -98.821600
014 047 625507.483 1152431.143 4332.347 -0.851036 -0.298695 -98.745091
014 048 625509.028 1154963.382 4328.142 -0.873385 -0.100937 -99.506494
014 049 625504.355 1157483.964 4306.305 -0.259381 -0.284564 -99.053513
014 050 625518.323 1160017.303 4326.094 -0.332411 -0.613939 -99.360028
014 051 625517.584 1162561.156 4309.717 0.556901 -0.313890 -100.459762
014 052 625513.224 1165070.981 4301.185 1.001867 -0.303978 -98.702080
014 053 625515.628 1167619.305 4326.112 1.271133 -0.351313 -99.372844
015 001 629910.657 1035660.422 4372.189 -0.038826 0.069899 99.354303
015 002 629889.339 1038207.555 4328.758 -0.530524 0.113123 100.726482
015 003 629880.354 1040717.171 4331.004 0.018246 0.744850 97.948989

015 004	629894.074	1043236.029	4368.289	0.157542	0.279276	98.351118
015 005	629895.278	1045794.475	4360.918	-0.461291	0.240276	98.169347
015 006	629892.983	1048317.207	4384.297	-0.443689	-0.034459	98.697380
015 007	629893.616	1050892.369	4390.073	-0.765504	0.113724	98.572847
015 008	629882.560	1053414.680	4368.524	-0.971595	-0.143615	98.531741
015 009	629866.335	1055938.136	4375.071	-0.554487	0.355108	97.880542
015 010	629884.344	1058471.882	4411.071	-0.337515	0.586874	98.185328
015 011	629892.304	1061022.031	4383.176	-0.783585	-0.179024	98.061729
015 012	629876.644	1063545.901	4372.122	-0.487984	0.455438	97.216773
015 013	629888.043	1066079.915	4346.888	-0.516970	0.190121	96.595618
015 014	629892.195	1068596.157	4340.449	0.090623	0.248195	96.611250
015 015	629912.476	1071110.810	4356.477	0.858691	0.347989	96.323406
015 016	629930.869	1073686.970	4370.320	0.880338	0.164207	97.320349
015 017	629926.717	1076185.963	4379.129	1.237687	-0.666374	97.473103
015 018	629910.309	1078745.137	4371.838	0.168599	0.146992	97.682271
015 019	629909.302	1081291.916	4348.106	-0.542828	0.571416	96.999008
015 020	629924.680	1083821.489	4330.359	-0.362788	0.043140	96.837120
015 021	629896.176	1086372.058	4322.603	-0.564672	-0.067664	97.600950
015 022	629900.762	1088910.091	4339.042	0.218266	0.692730	97.107974
015 023	629917.858	1091432.492	4354.028	0.504783	0.069467	96.376597
015 024	629913.908	1093973.030	4383.709	0.358772	0.035574	98.440664
015 025	629904.454	1096503.102	4381.428	-0.269086	0.066027	97.450507
015 026	629890.727	1099076.903	4350.965	-1.225198	0.121523	97.154417
015 027	629880.197	1101604.895	4335.551	-0.780593	0.331667	96.938706
015 028	629891.157	1104092.534	4359.393	0.070376	0.606513	95.685678
015 029	629900.766	1106663.757	4368.149	0.190730	0.173875	96.098883
015 030	629894.667	1109157.903	4383.028	0.457162	-0.419671	95.288798
015 031	629892.699	1111752.082	4384.104	-0.519381	-0.030654	96.833825
015 032	629881.402	1114255.552	4388.899	-0.687915	0.251991	97.253034
015 033	629851.691	1116820.870	4352.263	-1.029168	-0.367963	97.740578
015 034	629868.573	1119340.410	4327.831	-0.662988	0.881725	95.218332
015 035	629870.055	1121869.788	4313.145	-0.613126	0.361848	93.442445
015 036	629884.661	1124393.330	4353.392	-0.116693	0.259357	93.772134
015 037	629908.068	1126922.654	4383.969	0.171520	0.317255	96.234179
015 038	629934.604	1129459.681	4409.659	0.497180	-0.145875	97.156755
015 039	629931.456	1132019.214	4364.289	-0.233170	-0.347557	96.823086
015 040	629912.067	1134547.618	4347.542	-0.563673	-0.001263	96.772105
015 041	629901.781	1137086.686	4324.043	-0.507785	0.191795	94.719970
015 042	629922.661	1139596.031	4343.590	0.148288	1.121812	95.725297
015 043	629959.881	1142121.644	4385.317	1.074223	-0.006657	98.533382
015 044	629943.566	1144644.040	4371.921	1.132492	-0.390917	96.910174
015 045	629924.765	1147253.179	4342.094	-0.116441	-0.034933	96.262545
015 046	629900.584	1149753.274	4344.801	-0.221596	0.146178	96.441128
015 047	629906.386	1152318.165	4336.725	-0.617740	0.768227	96.144182

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015 049 629901.054 1157360.384 4329.377 -0.316657 0.301349 95.889083
015 050 629896.122 1159912.753 4359.038 0.152560 0.202907 96.611421
015 051 629890.693 1162450.356 4370.155 0.053127 0.355630 95.590586
015 052 629898.770 1164969.865 4368.962 -0.560765 0.293413 95.794144
015 053 629895.433 1167535.898 4341.264 -0.787149 0.215568 95.370063
016 001 634335.495 1035762.162 4351.277 0.182299 -0.810163 -104.257573
016 002 634351.207 1038292.696 4337.232 -0.041604 -0.725796 -104.309961
016 003 634360.889 1040820.096 4325.338 -0.129745 -0.777264 -104.814313
016 004 634352.678 1043363.229 4301.871 0.446280 -0.213045 -103.585211
016 005 634326.498 1045906.167 4309.744 0.067675 0.316981 -103.648926
016 006 634300.603 1048431.755 4322.621 -0.522126 0.386454 -103.949454
016 007 634278.026 1050965.446 4314.066 -0.216103 0.397535 -103.145173
016 008 634278.395 1053483.923 4304.082 -0.112700 -0.161135 -104.669712
016 009 634302.994 1056042.179 4325.988 -0.527085 -0.959243 -104.938458
016 010 634331.768 1058604.878 4327.408 -0.678238 -0.942626 -103.965258
016 011 634329.666 1061114.062 4307.977 -0.117876 0.016834 -101.905786
016 012 634318.584 1063641.037 4337.281 -0.511151 -0.161293 -102.326460
016 013 634299.851 1066207.643 4342.404 -0.425690 0.281682 -102.014691
016 014 634295.192 1068716.561 4333.399 -0.096648 0.014028 -102.879701
016 015 634300.568 1071271.305 4356.707 -0.550125 -0.326631 -102.963443
016 016 634312.742 1073786.655 4366.203 -0.426615 -0.337299 -102.828364
016 017 634319.024 1076310.916 4388.146 -0.269203 -0.273492 -101.855499
016 018 634314.764 1078848.024 4387.208 0.236380 -0.321881 -102.505814
016 019 634323.250 1081390.081 4378.516 0.727152 -0.800593 -102.516804
016 020 634331.195 1083927.900 4386.136 0.794751 -0.444224 -102.822175
016 021 634314.089 1086482.446 4398.727 0.648436 0.190472 -103.118883
016 022 634292.204 1088980.287 4393.591 0.647070 0.164859 -102.751062
016 023 634278.690 1091537.845 4403.870 0.083997 0.609923 -103.082521
016 024 634272.253 1094075.805 4375.721 0.163691 -0.197081 -102.973304
016 025 634302.476 1096621.292 4349.554 0.249383 -0.864174 -103.754724
016 026 634316.204 1099156.447 4336.240 -0.026263 -0.107767 -104.433995
016 027 634312.918 1101692.059 4330.459 0.237875 -0.169479 -102.682878
016 028 634321.852 1104233.766 4344.202 0.113024 -0.694015 -102.716779
016 029 634329.953 1106765.168 4349.206 -0.494894 -0.355077 -103.774416
016 030 634323.281 1109295.186 4339.808 -0.481910 -0.256304 -102.611451
016 031 634316.126 1111805.815 4341.006 -0.454617 -0.097900 -102.135657
016 032 634305.231 1114360.536 4347.814 -0.623896 0.208940 -101.245476
016 033 634292.232 1116891.649 4327.884 -0.132928 0.232793 -101.298062
016 034 634287.853 1119443.031 4339.051 -0.008888 -0.448468 -101.727759
016 035 634312.229 1121988.644 4348.703 -0.000780 -0.901667 -102.565674
016 036 634327.384 1124499.383 4351.089 0.408216 -0.923961 -101.935757
016 037 634319.445 1127049.838 4359.690 0.483174 0.046414 -101.307008
016 038 634293.783 1129587.702 4358.160 0.422160 0.238895 -100.848790

016 039 634275.441 1132109.774 4353.922 0.113110 0.138638 -102.367034
016 040 634270.358 1134661.311 4359.356 0.218163 -0.019132 -101.560493
016 041 634281.146 1137211.959 4356.565 0.159928 -0.684728 -102.362430
016 042 634299.052 1139718.928 4352.123 -0.130919 -0.538678 -102.489360
016 043 634305.881 1142258.935 4352.519 -0.331085 -0.497800 -101.389807
016 044 634302.526 1144798.965 4346.845 -0.498939 0.060866 -102.008341
016 045 634288.724 1147318.238 4335.458 0.034727 0.050012 -100.768830
016 046 634284.017 1149883.461 4341.324 -0.060404 -0.103337 -103.210484
016 047 634294.770 1152403.982 4361.033 -0.157135 -0.555387 -101.550142
016 048 634311.103 1154931.010 4344.832 0.407827 -0.419198 -102.301338
016 049 634315.840 1157468.493 4345.064 0.598755 -0.396042 -102.346869
016 050 634321.422 1160003.605 4344.610 0.781785 -0.631349 -102.191581
016 051 634334.596 1162561.232 4387.383 -0.277438 -0.876530 -101.267398
016 052 634336.581 1165155.950 4382.005 -1.554514 -0.514458 -100.393549
016 053 634312.458 1167628.587 4310.874 -0.130903 -0.314749 -101.725760

Appendix B**LiDAR Metadata**

Identification_Information:

Citation:

Citation_Information:

Originator: EarthData International Inc.

Publication_Date: 20061204

Title: FY 2006 Upper Myakka LiDAR

Edition: v.1

Geospatial_Data_Presentation_Form: map

Series_Information:

Series_Name: LiDAR

Issue_Identification: 1

Publication_Information:

Publication_Place: Frederick, MD 21704

Publisher: EarthData International

Description:

Abstract:

EarthData International collected ALS-50-derived LiDAR over Upper Myakka Florida with a one-meter post spacing. The period of collection was between 3 October and 12 October 2006. The collection was performed by EarthData Aviation, using a Leica ALS-50 LiDAR system, including an inertial measuring unit (IMU) and a dual frequency GPS receiver. This project required six lifts of flight lines to be collected. The product generated consisted of LiDAR bare earth elevation models in LAS format. This data set is one component of a digital terrain model (DTM) for the Southwest Florida Water Management District's FY2005 Digital LiDAR Project (H048), encompassing approximately 291 square miles across Manatee County. The 2005 LiDAR dataset is comprised of 3-D masspoints delivered in the LAS file format based on the District's 5,000' by 5,000' grid (325 cells). The other DTM component is 2-D and 3-D breakline features in the ESRI ArcGIS Personal Geodatabase format. In accordance with the 2005 SWFWMD Topographic Database Design, the following breakline closed water bodies (lakes, reservoirs, etc) as 3-D polygons; linear hydrographic features (streams, canals, swales, embankments, etc) as 3-D breaklines; coastal shorelines as 3-D linear features; edge of pavement road features as 3-D breaklines; soft features (ridges, valleys, etc.) as 3-D breaklines; obscured vegetation polygons as 2-D polygons; overpasses and bridges as 3-D breaklines; 1-foot contours for visualization purposes; and island features as 3-D polygons. Breakline features were captured to develop a hydrologically correct DTM.

Contours (1-foot) were generated from the DTM that meet the National Map Accuracy Standards for 2-foot contours (FEMA specifications). Bare earth LiDAR masspoint data display a vertical accuracy of at least 0.3-foot root mean square error (RMSE) in open unobscured areas

Purpose:

This project was designed to provide topographic information to the Southwest Florida Water Management District to support regulatory, land management and acquisition, planning, engineering and habitat restoration projects.

Supplemental_Information:

LiDAR
bare-earth elevation models in LAS format.

Time_Period_of_Content:**Time_Period_Information:****Range_of_Dates/Times:**

Beginning_Date: 20061003

Ending_Date: 20061012

Currentness_Reference: Ground Condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:**Bounding_Coordinates:**

West_Bounding_Coordinate: -082.451361

East_Bounding_Coordinate: -081.879906

North_Bounding_Coordinate: +27.555841

South_Bounding_Coordinate: +27.176931

Keywords:**Theme:**

Theme_Keyword_Thesaurus: Keywords

Theme_Keyword: LiDAR

Theme_Keyword: Bare Earth

Theme_Keyword: Terrain

Theme_Keyword: Model

Theme_Keyword: Elevation

Theme_Keyword: Surface

Place:

Place_Keyword_Thesaurus: Geographic Names Information System

Place_Keyword: Florida

Place_Keyword: Upper Myakka

Access_Constraints: NONE

Use_Constraints: NONE

Point_of_Contact:**Contact_Information:**

Contact_Organization_Primary:

Contact_Organization: Southwest Florida Water Management

District

Contact_Person: Mapping and GIS section

Contact_Address:

Address_Type: mailing and physical address

Address:

Mapping and GIS Section
Southwest Florida Water
Management District
2379 Broad Street

City: Brooksville**State_or_Province:** FL**Postal_Code:** 34604-6899**Country:** USA**Contact_Voice_Telephone:** 352.796.7211**Contact_Facsimile_Telephone:** 352.540.6018**Hours_of_Service:** 9:00am - 5:00pm**Data_Set_Credit:** Southwest Florida Water Management District**Security_Information:****Security_Handling_Description:** None**Security_Classification:** Unclassified**Security_Classification_System:** None**Native_Data_Set_Environment:**

Microsoft Windows 2000 Version 5.0 (Build 2195)

Service Pack 4; ESRI ArcCatalog 9.0.0.535

Data_Quality_Information:**Attribute_Accuracy:****Attribute_Accuracy_Report:**

The boresight of the LiDAR was processed against the ground control for this project which consisted of 11 LiDAR ground survey points and 1 ABGPS base station at the operation airport. The control points were processed to FL State Plane West NAD83/1999 , and vertically to Mean Sea Level(MSL), NAVD 88 in U.S. Survey Feet. Airborne GPS data was collected during the acquisition mission for each flight line. During the data acquisition the Positional Dilution of Precision (PDOP) for the airborne GPS (ABGPS) was monitored and held at or below 3.5 when possible. The control points were measured by technicians using Terrascan and proprietary software and applied to the boresight solution for the project lines. An independent check of the accuracy of the bare earth LiDAR product was conducted using land cover quality control points.

Logical_Consistency_Report:

Compliance with the accuracy standard was ensured by the collection of GPS ground control after the acquisition of aerial LiDAR and the establishment of a GPS base station at the Sarasota-Bradenton International Airport. The following checks were performed.

1. The ground control and airborne GPS data stream were validated through a fully analytical boresight adjustment.
2. The DTM (Digital Terrain Model) data were checked against the project control.
3. LiDAR elevation data was validated through an inspection of edge matching and visual inspection for quality (artifact removal).

Completeness_Report:

The following methods are used to assure LiDAR accuracy.

1. Use of IMU and ground control network utilizing GPS techniques.
2. Use of airborne GPS in conjunction with the acquisition of LiDAR.
3. Measurement of quality control ground survey points within the finished product.

The following software is used for the validation

1. Terrascan
2. EarthData Proprietary Software

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The minimum expected horizontal accuracy was tested to meet or exceed a 4.5-foot horizontal accuracy at 95 percent confidence level using $RMSE(r) \times 1.7308$ as defined by the National Standards for Spatial Data Accuracy (NSSDA)

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

The vertical accuracy for LiDAR data over well-defined surfaces meets the Federal Geographic Data Committee's (FGDC) published National Standard for Spatial Data Accuracy (NSSDA). Vertical accuracies at the 95 percent confidence level for flat terrain were required, and all systematic errors were eliminated to the greatest extent possible and the errors were normally distributed. Accuracy was tested to meet a 0.5-foot fundamental vertical accuracy at 95 percent confidence level using $RMSE(z) \times 1.9600$ as defined by the National Standards for Spatial Data Accuracy (NSSDA).

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: EarthData Aviation

Publication_Date: 20061012

Title: Upper Myakka Aerial Acquisition

Source_Scale_Denominator: 1200

Type_of_Source_Media: external hard drive

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 20061003

Ending_Date: 20061012

Source_Currentness_Reference: Ground Condition

Source_Citation_Abbreviation: Aerial Acquisition

Source_Contribution:

EarthData International collected ALS-50-derived LiDAR over Upper Myakka Florida with a one-meter post spacing using aircraft number N62912. The period of collection

was between 3 October and 12 October 2006. The collection was performed by EarthData Aviation, using a Leica ALS-50 LiDAR system, serial number ALS039, including an inertial measuring unit (IMU) and a dual frequency GPS receiver. This project required six lifts of flight lines to be collected. The lines were flown at an average of 3000 feet above mean terrain using a pulse rate of 75,000 pulses per second.

Source_Information:**Source_Citation:****Citation_Information:**

Originator: Kevin J. Chappell

Publication_Date: 20060530

Title: Report of GPS Survey Upper Myakka Area, FL

Geospatial_Data_Presentation_Form: model

Source_Scale_Denominator: 1200

Type_of_Source_Media: paper

Source_Time_Period_of_Content:

Time_Period_Information:**Range_of_Dates/Times:**

Beginning_Date: 20060307

Ending_Date: 20060413

Source_Currentness_Reference: Ground Condition

Source_Citation_Abbreviation: Ground Control

Source_Contribution:

Earthdata International was contracted to provide mapping services in the Upper Myakka area of Florida. Aerial imagery and LiDAR data was collected for the project area. Earthdata subcontracted the ground survey tasks to Kevin J. Chappell, Florida PSM License No. LS5818. The Global Positioning System (GPS) was used to establish the control network. There were a total of 41 stations occupied for this project. There were 19 new photo control stations, 11 new LIDAR control stations, 4 temporary GPS base stations, 5 existing NSRS control stations, 1 CORS station, and 1 airborne GPS base station used by the flight crew. The final network was adjusted using least squares. A free adjustment and constrained adjustment were performed. The results of the free adjustment indicate an external network accuracy of better than 3 cm in relation to NAD 1983 1999 and NAVD 1988. The results of the constrained adjustment indicate an internal network accuracy of better than 3 cm in relation to NAD 1983 1999 and NAVD 1988.

Source_Information:**Source_Citation:****Citation_Information:**

Originator: WilsonMiller, Inc.

Publication_Date: 20070330

Title: LiDAR Land Cover Control, Report of GPS Survey

Geospatial_Data_Presentation_Form: map

Source_Scale_Denominator: 1200

Type_of_Source_Media: paper
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 20070115
Ending_Date: 20070212
Source_Currentness_Reference: Ground Condition
Source_Citation_Abbreviation: LiDAR Land Cover QC Survey
Source_Contribution:
EarthData International was contracted to provide mapping services in the Upper Myakka area of Florida. LiDAR data was collected for the project area. EarthData subcontracted the quality control survey tasks to WilsonMiller, Inc. The Global Positioning System (GPS) was used to establish the control network. There were a total of 93 stations occupied for this project. 64 new LiDAR land cover control stations, 4 NGS base control stations, 8 FDEP 2005 base control stations, 9 NGS control check stations.

Process_Step:**Process_Description:**

The airborne GPS data were processed and integrated with the IMU. The results were imported into the processing system for use in the LiDAR boresight. The raw LiDAR data was downloaded onto a production server. The ground control and airport GPS base station were used in conjunction with the processed ABGPS results for the LiDAR boresight. The properly formatted processing results were used for subsequent processing.

Source_Used_Citation_Abbreviation: Boresight**Process_Date:** 20061115**Source_Produced_Citation_Abbreviation:** Boresight**Process_Contact:****Contact_Information:****Contact_Organization_Primary:****Contact_Organization:** EarthData International**Contact_Person:** Harold Rempel**Contact_Position:** Director of Program Management**Contact_Address:****Address_Type:** mailing and physical address**Address:** 7320 Executive Way**City:** Frederick**State_or_Province:** Maryland**Postal_Code:** 21704**Country:** USA**Contact_Voice_Telephone:** 301-948-8550**Contact_Facsimile_Telephone:** 301-963-2064**Contact_Electronic_Mail_Address:**hrempel@earthdata.com**Hours_of_Service:** Mon-Fri 9:00am to 5:00pm**Process_Step:****Process_Description:**

EarthData has developed a unique method for processing LiDAR data to identify and remove elevation points falling on vegetation, buildings, and other aboveground structures. The algorithms for filtering data were utilized within EarthData's proprietary software and commercial software written by TerraSolid. This software suite of tools provides efficient processing for small to large-scale, projects and has been incorporated into ISO 9001 compliant production work flows. The following is a step-by-step breakdown of the process.

1. Using the LiDAR data set provided by EarthData Aviation, the technician performs calibrations on the data set.
2. The technician performed a visual inspection of the data to verify that the flight lines overlap correctly. The technician also verified that there were no voids, and that the data covered the project limits. The technician then selected a series of areas from the data set and inspected them where adjacent flight lines overlapped. These overlapping areas were merged and a process which utilizes 3-D Analyst and EarthData's proprietary software was run to detect and color code the differences in elevation values and profiles. The technician reviewed these plots and located the areas that contained systematic errors or distortions that were introduced by the LiDAR sensor.
3. Systematic distortions highlighted in step 2 were removed and the data was re-inspected. Corrections and adjustments can involve the application of angular deflection or compensation for curvature of the ground surface that can be introduced by crossing from one type of land cover to another.
4. The LiDAR data for each flight line was trimmed in batch for the removal of the overlap areas between flight lines. The data was checked against a control network to ensure that vertical requirements were maintained. Conversion to the client-specified datum and projections were then completed. The LiDAR flight line data sets were then segmented into adjoining tiles for batch processing and data management.
5. The initial batch-processing run removed 95% of points falling on vegetation. The algorithm also removed the points that fell on the edge of hard features such as structures, elevated roadways and bridges.
6. The operator interactively processed the data using LiDAR editing tools. During this final phase the operator generated a TIN based on a desired thematic layers to evaluate the automated classification performed in step 5. This allowed the operator to quickly re-classify points from one layer to another and recreate the TIN surface to see the effects of edits. Geo-referenced images were toggled on or off to aid the operator in identifying

problem areas. The data was also examined with an automated profiling tool to aid the operator in the reclassification.

6. The point cloud data were delivered in LAS format. 10 - points in wetlands and ditches, 9 - points in water, 2 - ground points, and 1 - all other.

Source_Used_Citation_Abbreviation: LiDAR elevation data

Process_Date: 20070115

Source_Produced_Citation_Abbreviation: LiDAR

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EarthData International

Contact_Person: Harold Rempel

Contact_Position: Director of Program Management

Contact_Address:

Address_Type: mailing and physical address

Address: 7320 Executive Way

City: Frederick

State_or_Province: Maryland

Postal_Code: 21704

Country: USA

Contact_Voice_Telephone: 301-948-8550

Contact_Facsimile_Telephone: 301-963-2064

Contact_Electronic_Mail_Address:

hrempel@earthdata.com

Hours_of_Service: Mon-Fri 8:30 am to 5:00 pm

Cloud_Cover: 0

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Point

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: State Plane Coordinate

System 1983

State_Plane_Coordinate_System:

SPCS_Zone_Identifier: Florida West Zone (0902)

Lambert_Conformal_Conic:

Standard_Parallel: 34.33333333333333

Standard_Parallel: 36.16666666666667

Longitude_of_Central_Meridian: -082.000000

Latitude_of_Projection_Origin: +24.333333

False_Easting: 656166.66666667

False_Northing: 0.000000

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair

Coordinate_Representation:

Abscissa_Resolution: 0.500000

Ordinate_Resolution: 0.500000

Planar_Distance_Units: US Survey Feet

Geodetic_Model:

Horizontal_Datum_Name: NAD 1983 HARN
Ellipsoid_Name: Geodetic Reference System 80
Semi-major_Axis: 6378137
Denominator_of_Flattening_Ratio: 298.257222101
Vertical_Coordinate_System_Definition:
 Altitude_System_Definition:
 Altitude_Datum_Name: North American Vertical Datum of 1988
 Altitude_Resolution: 0.000001
 Altitude_Distance_Units: Feet
 Altitude_Encoding_Method: Explicit elevation coordinate included with
horizontal coordinates
Entity_and_Attribute_Information:
 Overview_Description:
 Entity_and_Attribute_Overview:
 Leica ALS50 sensors
 1-meter post spacing
 Entity_and_Attribute_Detail_Citation: see process steps within this
Distribution_Information:
 Distributor:
 Contact_Information:
 Contact_Organization_Primary:
 Contact_Organization: Southwest Florida Water Management
District
 Contact_Person: Mapping and GIS Section
 Contact_Address:
 Address_Type: mailing and physical address
 Address:
 Southwest Florida Water
 Management District
 2379 Broad Street
 City: Brooksville
 State_or_Province: FL
 Postal_Code: 34604-6899
 Country: USA
 Contact_Voice_Telephone: 352.796.7211
 Contact_Facsimile_Telephone: 352.540.6018
 Hours_of_Service: 9:00am - 5:00pm
 Resource_Description: Downloadable Data
 Distribution_Liability:
 Users must assume responsibility for determining the
 usability of this data.
 Technical_Prerequisites: All LiDAR is supplied in LAS 1.0 format
Metadata_Reference_Information:
 Metadata_Date: 20070419
 Metadata_Contact:
 Contact_Information:
 Contact_Organization_Primary:
 Contact_Organization: Southwest Florida Water Management
District
 Contact_Person: Mapping and GIS Section
 Contact_Address:
 Address_Type: mailing and physical address

Address:

Southwest Florida Water
Management District
2379 Broad Street

City: Brooksville**State_or_Province:** Florida**Postal_Code:** 34604-6899**Country:** USA**Contact_Voice_Telephone:** 352.796.7211**Contact_Facsimile_Telephone:** 352.540.6018**Hours_of_Service:** 9:00am - 5:00pm**Metadata_Standard_Name:** FGDC Content Standards for Digital Geospatial Metadata**Metadata_Standard_Version:** FGDC-STD-001-1998**Metadata_Access_Constraints:** None**Metadata_Use_Constraints:**

This data is not valid without the signed and sealed
Florida MTS Report of Specific Purpose Survey, 2005
UPPER MYAKKA DTM project (H048), dated MAY 2006.
Refer to this report for user constraints.

Photogrammetry Metadata**Identification_Information:****Citation:****Citation_Information:****Originator:** EarthData International Inc.**Publication_Date:** 20070419**Title:** FY 2006 Upper Myakka Photogrammetry**Edition:** v.1**Geospatial_Data_Presentation_Form:** map**Series_Information:****Series_Name:** Photogrammetry**Issue_Identification:** 1**Publication_Information:****Publication_Place:** Frederick, MD 21704**Publisher:** EarthData International**Description:****Abstract:**

EarthData International collected conventional aerial 700' over the Upper Myakka area of Florida. The black and white aerial photography was collected on March 3rd and March 7th of 2006. The collection was performed by EarthData Aviation, using an Wild RC30 camera system, including an inertial measuring unit (IMU) and a dual frequency GPS receiver. This project required 2 lifts of flight lines to be collected for a total of 16 lines. The products generated from the photography consisted of photogrammetrically collected breaklines draped to a LiDAR elevation model and 1-foot contours meeting National Map Accuracy Standards for 2-foot contours. This data set is one component of a digital terrain model (DTM)

for the Southwest Florida Water Management District's FY2006 LiDAR Project (H048), encompassing approximately 291 square miles across Manatee County. The SWFWMD breakline and contour geodatabase is comprised of 2-D and 3-D breakline features in the ESRI ArcGIS Personal Geodatabase format. In accordance with the 2006 SWFWMD Topographic Database Design, the following breakline features are contained within the database: closed water bodies (lakes, reservoirs, etc) as 3-D polygons; linear hydrographic features (streams, canals, swales, embankments, etc) as 3-D breaklines; coastal shorelines as 3-D linear features; edge of pavement road features as 3-D breaklines; soft features (ridges, valleys, etc.) as 3-D breaklines; obscured vegetation polygons as 2-D polygons; overpasses and bridges as 3-D breaklines; 1-foot contours for visualization purposes; and island features as 3-D polygons. The other component of the LiDAR DTM is LiDAR masspoint data delivered in the LAS file format based on the District's 5,000' by 5,000' grid (325 cells). Breakline features were captured to develop a hydrologically correct DTM. Contours (1-foot) were generated from the DTM that meet the National Map Accuracy Standards for 2-foot contours (FEMA specifications). Bare earth LiDAR masspoint data display a vertical accuracy of at least 0.3-foot root mean square error (RMSE) in open unobscured areas.

Purpose:

This project was designed to provide topographic information to the Southwest Florida Water Management District to support regulatory, land management and acquisition, planning, engineering and habitat restoration projects.

Supplemental_Information:

aerial photography
breaklines
contours

Time_Period_of_Content:**Time_Period_Information:****Range_of_Dates/Times:****Beginning_Date:** 20060303**Ending_Date:** 20060307**Currentness_Reference:** Ground Condition**Status:****Progress:** Complete**Maintenance_and_Update_Frequency:** As needed**Spatial_Domain:****Bounding_Coordinates:****West_Bounding_Coordinate:** -082.451361**East_Bounding_Coordinate:** -081.879906**North_Bounding_Coordinate:** +27.555841**South_Bounding_Coordinate:** +27.176931

Keywords:**Theme:**

Theme_Keyword_Thesaurus: Keywords
Theme_Keyword: aerial
Theme_Keyword: contours
Theme_Keyword: photogrammetry
Theme_Keyword: breakline
Theme_Keyword: digital
Theme_Keyword: terrain
Theme_Keyword: model

Place:

Place_Keyword_Thesaurus: Geographic Names Information System
Place_Keyword: Florida
Place_Keyword: Upper Myakka

Access_Constraints: NONE

Use_Constraints: NONE

Point_of_Contact:**Contact_Information:****Contact_Organization_Primary:**

Contact_Organization: Southwest Florida Water Management

District

Contact_Person: Mapping and GIS Section

Contact_Address:

Address_Type: mailing and physical address

Address:

Mapping and GIS Section
Southwest Florida Water
Management District
2379 Broad Street

City: Brooksville

State_or_Province: FL

Postal_Code: 34604-6899

Country: USA

Contact_Voice_Telephone: 352.796.7211

Contact_Facsimile_Telephone: 352.540.6018

Hours_of_Service: 9:00am - 5:00pm

Data_Set_Credit: Southwest Florida Water Management District

Security_Information:

Security_Handling_Description: None

Security_Classification: Unclassified

Security_Classification_System: None

Native_Data_Set_Environment:

Microsoft Windows 2000 Version 5.0 (Build 2195)

Service Pack 4 ESRI ArcCatalog 9.0.0.535

Data_Quality_Information:**Attribute_Accuracy:****Attribute_Accuracy_Report:**

The aerotriangulation was processed against the ground control for this project which consisted of 9 photo ground survey points and 1 ABGPS base station at the operation airport. The control points were processed to FL State Plane West NAD83/1999, and vertically to Mean Sea

Level(MSL), NAVD 88 in U.S. Survey Feet. Airborne GPS data was collected during the acquisition mission for each flight line. During the data acquisition the Positional Dilution of Precision (PDOP) for the airborne GPS (ABGPS) was monitored and held at or below 3.5 when possible. The control points were measured by technicians using Orima and applied to the aerotriangulation solution for the block of project lines.

Logical_Consistency_Report:

Compliance with the accuracy standard was ensured by the collection of GPS ground control and the establishment of a GPS base station at the Sarasota-Bradenton International Airport. The following checks were performed.

1. The ground control and airborne GPS data stream were validated through a fully analytical boresight adjustment.
2. The aerotriangulation solution was checked against the project control.

Completeness_Report:

The following methods are used to assure LiDAR accuracy.

1. Use of IMU and ground control network utilizing GPS techniques.
2. Use of airborne GPS in conjunction with the acquisition of imagery.
3. The ground control and airborne GPS data stream were validated through a fully analytical bundle aerotriangulation adjustment. The residuals of the adjustment met the required standards for accuracy which are 1 part in 10,000 of the flying height for the horizontal position (X and Y) and 1 part in 9,000 or better of the flying height in elevation (Z). The following software is used for the validation

1. Orima
2. EarthData Proprietary Software

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The minimum expected horizontal accuracy was tested to meet or exceed a 2-foot contour accuracy as defined by the National Map Accuracy Standards for 2-foot contours. See Report of Final GPS Survey, 2006 UPPER MYAKKA DTM Project (H048), dated May 31, 2006.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

The minimum expected horizontal accuracy was tested to meet or exceed a 2-foot contour accuracy as defined by the National Map Accuracy Standards for 2-foot contours in that not more than 10 percent of the elevations be in error more than one-half the contour interval. The vertical accuracy of ground points in unobscured areas is 0.3-feet RMSE. See Report of Final GPS Survey, 2006 UPPER MYAKKA DTM Project (H048), dated May 31,

2006.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: EarthData Aviation

Publication_Date: 20060307

Title: Upper Myakka Aerial Acquisition

Source_Scale_Denominator: 8400

Type_of_Source_Media: external hard drive

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 20060303

Ending_Date: 20060307

Source_Currentness_Reference: Ground Condition

Source_Citation_Abbreviation: Aerial Acquisittion

Source_Contribution:

EarthData International collected conventional aerial 700' over the Upper Myakka area of Florida using aircraft tail number N207MD. The black and white aerial photography was collected on March 3rd and March 7th of 2006. The collection was performed by EarthData Aviation, using an Wild RC30 camera system, including an inertial measuring unit (IMU) and a dual frequency GPS receiver. This project required 2 lifts of flight lines to be collected for a total of 16 lines, at an average altitude of 4,300 feet above mean terrain. Type of aerial film used was Kodak 2405. Lens number of the Wild RC30 camera used was 13261-5253 with a calibrated focal length of 153.399. The area-weighted average resolution is 51. The camera was last calibrated by USGS on June 29, 2004.

Source_Information:

Source_Citation:

Citation_Information:

Originator: Kevin J. Chappell

Publication_Date: 20060530

Title: Report of GPS Survey Upper Myakka Area, FL
Geospatial_Data_Presentation_Form: model

Source_Scale_Denominator: 1200

Type_of_Source_Media: paper

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 20060307

Ending_Date: 20060413

Source_Currentness_Reference: Ground Condition

Source_Citation_Abbreviation: Ground Control

Source_Contribution:

Earthdata International was contracted to provide mapping services in the Upper Myakka area of Florida. Aerial imagery and LIDAR data was collected for the project

area. Earthdata subcontracted the ground survey tasks to Kevin J. Chappell, Florida PSM License No. LS5818. The Global Positioning System (GPS) was used to establish the control network. There were a total of 41 stations occupied for this project. There were 19 new photo control stations, 11 new LIDAR control stations, 4 temporary GPS base stations, 5 existing NSRS control stations, 1 CORS station, and 1 airborne GPS base station used by the flight crew. The final network was adjusted using least squares. A free adjustment and constrained adjustment were performed. The results of the free adjustment indicate an external network accuracy of better than 3 cm in relation to NAD 1983 1999 and NAVD 1988. The results of the constrained adjustment indicate an internal network accuracy of better than 3 cm in relation to NAD 1983 1999 and NAVD 1988.

Process_Step:

Process_Description:

The ground control and airborne GPS data was integrated into a rigid network through the completion of a fully analytical bundle aerotriangulation adjustment.

1. The original aerial film was scanned at a resolution of 1,814 DPI. The scans were produced using Z/I Imaging PhotoScan flatbed metric scanners. Each unit has a positional accuracy of 14 microns.
2. The raster scans were given a preliminary visual check on the scanner workstation to ensure that the raster file size is correct and to verify that the tone and contrast were acceptable. A directory tree structure for the project was established on one of the workstations. This project was then accessed by other workstations through the network. The criteria used for establishment of the directory structure and file naming conventions accessed through the network avoids confusion or errors due to inconsistencies in digital data. The project area was defined using the relevant camera information that was obtained from the USGS camera calibration report for the aerial camera and the date of photography. The raster files were rotated to the correct orientation for mensuration on the softcopy workstation. The rotation of the raster files was necessary to accommodate different flight directions from one strip to the next. The technician verified that the datum and units of measurement for the supplied control were consistent with the project requirements.
3. The photogrammetric technician performed an automatic interior orientation for the frames in the project area. The softcopy systems that were used by the technicians have the ability to set up predefined fiducial templates for the aerial camera(s) used for the project. Using the template that was predefined in the interior orientation setup, the software identified and measured the eight fiducial positions for all the frames. Upon

completion, the results were reviewed against the tolerance threshold. Any problems that occurred during the automatic interior orientation would cause the software to reject the frame and identify it as a potential problem. The operator then had the option to measure the fiducials manually.

4. The operator launched the point selection routine which automatically selected pass and tie points by an autocorrelation process. The correlation tool that is part of the routine identified the same point of contrast between multiple images in the Von Gruber locations. The interpolation tool can be adjusted by the operator depending on the type of land cover in the triangulation block. Factors that influence the settings include the amount of contrast and the sharpness of features present on the photography. A preliminary adjustment was run to identify pass points that had high residuals. This process was accomplished for each flight line or partial flight line to ensure that the network has sufficient levels of accuracy. The points were visited and the cause for any inaccuracy was identified and rectified. This process also identified any gaps where the point selection routine failed to establish a point. The operator interactively set any missing points.

5. The control and pass point measurement data was run through a final adjustment on the Z/I SSK PhotoT workstations. The PhotoT program created a results file with the RMSE results for all points within the block and their relation to one another. The photogrammetrist performing the adjustments using their experience to determine what course of action to take for any point falling outside specifications.

6. The bundle adjustment was run through the PhotoT software several times. The photogrammetrist increased the accuracy parameters for each subsequent iteration so, when the final adjustment was run, the RMSE for the project met the accuracy of 1 part in 10,000 of the flying height for the horizontal position (X and Y) and 1 part in 9,000 or better of the flying height in elevation (Z). The errors were expressed as a natural ratio of the flying height utilizing a one-sigma (95%) confidence level.

7. The accuracy of the final solution was verified by running the final adjustment, placing no constraints on any quality control points. The RMSE values for these points must fall within the tolerances above for the solution to be acceptable.

8. The final adjustment generates three files. The .txt file has all the results from the adjustment with the RMSE values for each point measured. The .XYZ file contains the adjusted X, Y, Z, coordinates for all the measured points and the .PHT file contains the exterior orientation parameters of each exposure station.

Source_Used_Citation_Abbreviation: Aerotriangulation

Process_Date: 20060619

Source_Produced_Citation_Abbreviation: AT

Process_Contact:

 Contact_Information:

 Contact_Organization_Primary:

 Contact_Organization: EarthData International

 Contact_Person: Harold Rempel

 Contact_Position: Director of Program Management

 Contact_Address:

 Address_Type: mailing and physical address

 Address: 7320 Executive Way

 City: Frederick

 State_or_Province: Maryland

 Postal_Code: 21704

 Country: USA

 Contact_Voice_Telephone: 301-948-8550

 Contact_Facsimile_Telephone: 301-963-2064

 Contact_Electronic_Mail_Address:

hrempel@earthdata.com

 Hours_of_Service: Mon-Fri 9:00am to 5:00pm

Process_Step:

 Process_Description:

Photogrammetrically-collected breaklines were compiled to delineate specified features in accordance with the project scope. This is an interactive process using photogrammetrically-derived stereo pairs in a 3D environment. Features collected defined tops and bottoms of slopes, roads, ditches, ponds, rivers and lakes. Breaklines in wetland areas were collected with sufficient detail to ensure that hydrographic features were correctly represented to support the generation of 1' contours to a 2' NMAS vertical accuracy requirement. The wetland breaklines were collected as closed polygons and were used in the LiDAR processing for reclassifying wetland points. The breaklines were verified in a stereo environment by senior technicians who were not involved in the compilation. Wetland boundaries were verified using existing orthophotography and LiDAR hillshades color-coded by elevation. This process was used to ensure that water conditions at time of LiDAR acquisition were consistent with the imagery used to compile breaklines. The breaklines were modified as necessary in instances where the more recent LiDAR data showed areas of change. The breaklines were then draped to the LiDAR ground points. This draping process included roads but excluded ditches. All vector data was reviewed after this process to assure that vectors had been properly assigned elevations in comparison to the LiDAR surface. The completed breakline product was used in the generation of the contour deliverable and were also delivered as a geodatabase deliverable.

Source_Used_Citation_Abbreviation: Breaklines
Process_Date: 20070125
Source_Produced_Citation_Abbreviation: Breaklines
Process_Contact:
 Contact_Information:
 Contact_Organization_Primary:
 Contact_Organization: EarthData International
 Contact_Person: Harold Rempel
 Contact_Position: Director of Program Management
 Contact_Address:
 Address_Type: mailing and physical address
 Address: 7320 Executive Way
 City: Frederick
 State_or_Province: Maryland
 Postal_Code: 21704
 Country: USA
 Contact_Voice_Telephone: 301-948-8550
 Contact_Facsimile_Telephone: 301-963-2064
 Contact_Electronic_Mail_Address:

hrempel@earthdata.com

Hours_of_Service: Mon-Fri 8:30 am to 5:00 pm

Process_Step:

 Process_Description:

 This process describes the creation of contour data. The relevant LiDAR and breakline data for the project area was first translated into a Microstation dgn format. The data was then passed to the editing department for quality control and formatting. 2. The cartographic editor performed an accuracy evaluation for each DTM file. This step was accomplished by a visual inspection of the dataset in profile view to identify spikes or pits in the mass point information. The technician also verified that sufficient overage exists for each file to ensure full project area coverage. 3. The technician then produced the contours using the TerraModel software and checks with data following ISO 9001 procedures. 4. The contours were then converted into a geodatabase format and delivered.

Source_Used_Citation_Abbreviation: Contours

Process_Date: 20070221

Source_Produced_Citation_Abbreviation: Contours

Cloud_Cover: 0

Spatial_Data_Organization_Information:

 Direct_Spatial_Reference_Method: Vector

Spatial_Reference_Information:

 Horizontal_Coordinate_System_Definition:

 Planar:

 Grid_Coordinate_System:

 Grid_Coordinate_System_Name: State Plane Coordinate

System 1983

 State_Plane_Coordinate_System:

 SPCS_Zone_Identifier: FL West Zone (0902) US Survey

Feet

Lambert_Conformal_Conic:

Standard_Parallel: 34.3333333333333
Standard_Parallel: 36.1666666666667
Longitude_of_Central_Meridian: -082.000000
Latitude_of_Projection_Origin: +24.333333
False_Easting: 656166.66666667
False_Northing: 0.000000

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair
Coordinate_Representation:
Abscissa_Resolution: 1
Ordinate_Resolution: 1
Planar_Distance_Units: US Survey Feet

Geodetic_Model:

Horizontal_Datum_Name: NAD 1983 HARN
Ellipsoid_Name: Geodetic Reference System 80
Semi-major_Axis: 6378137
Denominator_of_Flattening_Ratio: 298.257222101

Vertical_Coordinate_System_Definition:**Altitude_System_Definition:**

Altitude_Datum_Name: North American Vertical Datum of 1988
Altitude_Resolution: 0.000001
Altitude_Distance_Units: Feet
Altitude_Encoding_Method: Explicit elevation coordinate included with

horizontal coordinates

Entity_and_Attribute_Information:**Overview_Description:****Entity_and_Attribute_Overview:**

Wild RC30 Aerial Camera
700' Negative Scale

Entity_and_Attribute_Detail_Citation: see process steps within this

Distribution_Information:**Distributor:****Contact_Information:****Contact_Organization_Primary:**

Contact_Organization: Southwest Florida Water Management

District

Contact_Person: Mapping and GIS Section

Contact_Address:

Address_Type: mailing and physical address
Address:

Southwest Florida Water
Management District
2379 Broad Street

City: Brooksville

State_or_Province: FL

Postal_Code: 34604-6899

Country: USA

Contact_Voice_Telephone: 352.796.7211

Contact_Facsimile_Telephone: 352.540.6018

Hours_of_Service: 9:00am - 5:00pm

Resource_Description: Downloadable Data

Distribution_Liability:
Users must assume responsibility for determining the usability of this data.

Metadata_Reference_Information:
Metadata_Date: 20070419
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Southwest Florida Water Management

District

Contact_Person: Mapping and GIS Section
Contact_Address:
Address_Type: mailing and physical address
Address:
Southwest Florida Water
Management District
2379 Broad Street
City: Brooksville
State_or_Province: Florida
Postal_Code: 34604-6899
Country: USA
Contact_Voice_Telephone: 352.796.7211
Contact_Facsimile_Telephone: 352.540.6018
Hours_of_Service: 9:00am - 5:00pm

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Access_Constraints: None
Metadata_Use_Constraints:
This data is not valid without the signed and sealed Florida MTS Report of Specific Purpose Survey, 2005 UPPER MYAKKA DTM project (H048), dated MAY 2006.
Refer to this report for user constraints.

Appendix C

Deliverable File Listing							
Ground Survey Report – 1 File							
File Name				Date of File			
Upper Myakka Survey Report.PDF				9/25/2006			
Quality Control Ground Survey Report – 3 Files							
File Name				Date of File			
Lidar QC Survey_20070301_Upper Myakka.PDF				3/15/2007			
Sheet_1of_2.PDF				3/15/2007			
Sheet_2of_2.PDF				3/15/2007			
Vertical Accuracy Report – 4 Files *NOTE: THESE FILES HAVE BEEN INCORPORATED INTO THS REPORT UNDER SECTION 1.3 “Accuracies – LiDAR”							
File Name				Date of File			
QC_Master_Brush.PDF				3/26/2007			
QC_Master_Forest.PDF				3/26/2007			
QC_Master_Grass.PDF				3/26/2007			
QC_Master_Urban_Grass.PDF				3/26/2007			
Project Metadata –8 Files							
File Name				Date of File			
Upper_Myakka_2006_LiDAR_Metadata.DOC				7/23/2007			
Upper_Myakka_2006_LiDAR_Metadata.PDF				7/23/2007			
Upper_Myakka_2006_LiDAR_Metadata.TXT				7/23/2007			
Upper_Myakka_2006_LiDAR_Metadata.XML				7/23/2007			
Upper_Myakka_2006_Photogrammetry_Metadata.DOC				7/23/2007			
Upper_Myakka_2006_Photogrammetry_Metadata.PDF				7/23/2007			
Upper_Myakka_2006_Photogrammetry_Metadata.TXT				7/23/2007			
Upper_Myakka_2006_Photogrammetry_Metadata.XML				7/23/2007			
Contours and Breaklines – 1 File							
File Name				Date of File			
SWFWMD_Upper_Myakka_Final.mdb				3/22/2007			
LiDAR LAS Files – 325 Files							
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