

Below are processing details and gravity data collected by U.S. Geological Survey 2011-2015.

The data were referenced to the International Gravity Standardization Net 1971 (IGSN71) datum and the reference ellipsoid is the Geodetic Reference System 1967 (GRS67). The free-air anomalies were calculated using a modified version of formulas from Swick (1942). The complete Bouguer anomalies were calculated from the free-air anomalies using the Bouguer correction, terrain corrections, a curvature correction, and a reduction density of 2670 kg/m<sup>3</sup>. Isostatic corrections were calculated using an Airy-Heiskanen model of isostatic compensation. The depth of the crust-mantle boundary was controlled using the following parameters: a crustal thickness at sea level of 25 km, a density contrast of 400 kg/m<sup>3</sup> between the crust and mantle, and a crustal density of 2670 kg/m<sup>3</sup>.

Elevation control was from postprocessing of Trimble handheld GPS devices and accuracy is estimated to be 1 meter or less (generally 0.3 m or 1 ft). Data were tied to the base station at Burney, California that we established by tying into Chapman base 17 in Fall River Mills (Chapman, 1966, p. 18; ch17 in data table below). The base station (burney) is located at the entrance of the Burney cemetery near the intersection of Mountain View and Erie streets in Burney. Place meter at the base of the west column of the entrance to read. See pictures at end of document.

Terrain corrections were calculated using 10- and 30-m digital elevation models out to a distance of 2000 m (code M). The horizontal and vertical locations for the stations are on the North American Datum 1927 (NAD27) and the North American Vertical Datum 1929 (NAVD29), respectively.

#### EXPLANATION OF FORMAT FOR GRAVITY MEASUREMENTS

Item:	Explanation
STATION:	An alphanumeric combination of up to 8 characters used for station identification. Columns 0-8
LATD:	Degree latitude. Columns 10-11
LATM:	Minute latitude. Columns 13-17
LOND:	Degree longitude. Columns 19-21
LONM:	Minute longitude. Columns 23-27
ELEV:	Elevation. Columns 29-35
OG:	Observed gravity. Columns 37-45
FAA:	Free-air anomaly. Columns 53-58
SBA:	Simple Bouguer anomaly. Columns 60-66
ITC:	Inner terrain correction out to a radius of various distances (see TC CODE) from the station, for a density of 2.67 g/cc. Columns 68-73
TC:	Total terrain correction from the station to 166.7 km for a density of 2.67 g/cc. Columns 75-80
CODE:	Letter denoting the extent of the inner-zone correction, according to the Hayford-Bowie and Hammer templates (M=2000 meters). See Spielman and Ponce (1984) for additional explanation. Column 82
CBA:	Complete Bouguer anomaly reduced for a density of 2.67 g/cc. Columns 84-90
ISO:	Isostatic residual anomaly values. Columns 92-98.

#### Example of format for gravity file

11hc001 41 0.54 121 26.08 3323.7 979914.18 -32.38 -145.74 0.08 0.32 M -146.54 -18.22

STATION: 11hc001  
 LATD: 41 degrees North  
 LATM: 0.54 minutes  
 LOND: 121 degrees West  
 LONM: 26.08 minutes  
 ELEV: 3323.7 feet  
 OG: 979914.18 mGal  
 FAA: -32.28 mGal  
 SBA: -145.74 mGal  
 ITC: 0.08 mGal  
 TC: 0.32 mGal  
 CODE: M (2000 m)  
 CBA: -146.54 mGal  
 ISO: -18.22 mGal

Chapman, R.H., 1966, Gravity base station network: California Division of Mines and Geology Special Report 90, 56 p.

Spielman, J.B., and Ponce, D.A., 1984, Handtc, a fortran program to calculate inner-zone terrain corrections: U.S. Geological Survey Open-File Report 84-777, 24 p.

Swick, C.A., 1942, Pendulum gravity measurements and isostatic reductions: U.S. Coast and Geodetic Survey Special Publication 232, 82 p.

STATION	LATD	LATM	LOND	LONM	ELEV	OG	FAA	SBA	ITC	TTC	CODE	CBA	ISO
11hc001	41	0.54	121	26.08	3323.7	979914.18	-32.38	-145.74	0.08	0.32	M	-146.54	-18.22
11hc002	41	0.81	121	25.94	3323.4	979913.52	-33.47	-146.82	0.10	0.32	M	-147.61	-19.21
11hc003	41	1.12	121	25.70	3320.8	979911.81	-35.89	-149.15	0.09	0.30	M	-149.96	-21.40
11hc004	41	1.40	121	25.44	3317.3	979911.04	-37.41	-150.55	0.07	0.27	M	-151.39	-22.63
11hc005	41	2.14	121	24.86	3308.4	979909.83	-40.56	-153.40	0.02	0.22	M	-154.29	-25.07
11hc006	41	2.70	121	24.45	3309.4	979907.86	-43.27	-156.14	0.01	0.20	M	-157.05	-27.50
11hc007	41	3.33	121	23.15	3321.5	979918.12	-32.82	-146.10	0.04	0.26	M	-146.95	-16.46
11hc008	41	3.54	121	22.46	3314.9	979919.13	-32.74	-145.80	0.02	0.28	M	-146.63	-15.68
11hc009	41	3.77	121	21.85	3311.9	979918.91	-33.58	-146.54	0.00	0.30	M	-147.35	-15.98
11hc010	41	3.91	121	21.31	3314.7	979918.62	-33.82	-146.87	0.01	0.36	M	-147.63	-15.87
11hc011	41	4.09	121	20.70	3317.4	979920.29	-32.17	-145.31	0.00	0.42	M	-146.01	-13.82
11hc012	41	4.36	121	19.82	3320.9	979921.05	-31.48	-144.74	0.03	0.59	M	-145.27	-12.50
11hc013	41	4.61	121	19.01	3334.6	979922.32	-29.30	-143.03	0.38	1.11	M	-143.03	-9.71
11hc014	41	5.32	121	18.86	3577.2	979908.96	-20.91	-142.91	0.18	0.85	M	-143.23	-9.80
11hc015	41	2.59	121	23.10	3269.2	979922.08	-32.67	-144.17	0.02	0.27	M	-145.00	-14.55
11hc016	41	2.92	121	22.44	3258.5	979922.95	-33.30	-144.43	0.02	0.31	M	-145.23	-14.30
11hc017	41	1.99	121	23.26	3316.9	979916.29	-33.08	-146.20	0.02	0.24	M	-147.07	-16.77
11hc018	41	2.00	121	22.41	3317.2	979919.31	-30.04	-143.18	0.00	0.25	M	-144.04	-13.14
11hc019	41	1.53	121	24.06	3307.3	979912.15	-37.43	-150.23	0.01	0.23	M	-151.11	-21.37
11hc020	41	1.10	121	24.71	3289.7	979914.20	-36.39	-148.59	0.03	0.26	M	-149.44	-20.17
11hc021	41	0.48	121	25.44	3285.4	979916.70	-33.37	-145.43	0.11	0.36	M	-146.17	-17.41
11hc022	40	59.92	121	27.14	3367.8	979915.31	-26.18	-141.04	0.10	0.40	M	-141.76	-14.21
11hc023	40	59.53	121	28.41	3559.3	979903.64	-19.27	-140.66	3.44	3.81	M	-138.02	-11.39
11hc024	40	59.59	121	28.95	3536.6	979903.20	-21.93	-142.55	3.82	4.21	M	-139.50	-13.25
11hc024	41	7.04	121	18.57	3681.6	979907.22	-15.40	-140.97	0.30	1.90	M	-140.27	-6.43
11hc025	40	59.57	121	30.24	2861.1	979948.29	-40.31	-137.90	1.46	2.86	M	-136.04	-10.50
11hc026	40	59.19	121	30.94	2963.7	979944.47	-33.92	-135.00	0.44	1.31	M	-134.72	-9.74
11hc027	40	59.01	121	31.59	2818.8	979952.28	-39.47	-135.60	0.20	1.25	M	-135.35	-10.79
11hc028	40	59.12	121	32.72	2795.8	979956.19	-37.88	-133.24	0.33	1.26	M	-132.97	-9.19
11hc029	40	58.62	121	33.29	2763.8	979955.45	-40.88	-135.15	0.30	1.19	M	-134.94	-11.59
11hc030	40	57.43	121	35.01	3135.7	979928.80	-30.79	-137.74	0.02	0.40	M	-138.42	-16.50
11hc031	40	56.80	121	35.76	3123.9	979930.76	-29.00	-135.55	0.07	0.49	M	-136.13	-14.81
11hc032	40	55.92	121	36.77	3122.9	979930.97	-27.57	-134.08	0.09	0.58	M	-134.57	-14.11
11hc033	40	55.34	121	37.39	3192.6	979926.26	-24.86	-133.75	0.04	0.55	M	-134.29	-14.41
11hc034	40	54.79	121	37.86	3166.0	979927.14	-25.66	-133.64	0.02	0.62	M	-134.10	-14.62
11hc035	40	54.35	121	38.23	3154.1	979927.67	-25.60	-133.17	0.03	0.73	M	-133.52	-14.38
11hc036	40	53.96	121	38.54	3134.4	979928.53	-26.01	-132.91	0.02	0.85	M	-133.13	-14.26
11hc037	40	53.64	121	38.97	3116.1	979929.52	-26.26	-132.54	0.01	0.98	M	-132.63	-14.15
11hc038	40	52.57	121	40.71	3180.4	979922.90	-25.24	-133.71	0.11	1.42	M	-133.37	-16.58
11hc039	40	52.35	121	41.22	3229.4	979919.41	-23.79	-133.94	0.19	1.52	M	-133.51	-17.24
11hc040	40	52.30	121	41.77	3197.3	979921.78	-24.37	-133.41	0.10	1.55	M	-132.96	-17.23
11hc041	40	52.28	121	42.25	3210.3	979920.73	-24.16	-133.66	0.07	1.58	M	-133.17	-17.91
11hc042	40	49.42	121	30.17	3309.8	979896.89	-34.38	-147.27	0.09	1.90	M	-146.48	-20.06
11hc043	40	49.64	121	28.81	3319.7	979895.47	-35.20	-148.42	0.01	1.50	M	-148.04	-20.47

11hc044	40	49.61	121	28.16	3327.5	979894.97	-34.92	-148.41	0.05	1.59	M	-147.94	-19.80
11hc045	40	49.61	121	27.59	3323.8	979896.23	-34.01	-147.37	0.24	1.95	M	-146.54	-17.92
11hc046	40	49.85	121	27.58	3408.4	979892.36	-30.29	-146.53	0.56	2.04	M	-145.63	-17.07
11hc047	40	49.81	121	27.29	3579.7	979881.56	-24.92	-147.01	0.48	1.75	M	-146.43	-17.68
11hc048	40	49.68	121	26.92	3656.9	979876.64	-22.39	-147.11	0.34	1.66	M	-146.64	-17.55
11hc049	40	49.52	121	26.48	3714.1	979872.89	-20.52	-147.20	0.42	1.88	M	-146.52	-17.04
11hc050	40	49.53	121	26.06	3903.9	979860.78	-14.81	-147.95	0.77	2.12	M	-147.08	-17.30
11hc050	41	12.42	121	21.03	4268.9	979887.81	12.35	-133.24	1.23	2.37	M	-132.17	1.43
11hc051	40	50.06	121	25.88	4206.3	979841.32	-6.63	-150.09	3.00	4.23	M	-147.16	-17.44
11hc052	40	50.52	121	25.34	4644.6	979813.32	5.88	-152.53	2.08	3.95	M	-149.94	-20.02
11hc053	40	50.15	121	24.58	4605.5	979816.18	5.62	-151.46	0.35	1.85	M	-150.96	-20.32
11hc054	40	49.83	121	24.13	4708.4	979810.05	9.64	-150.95	0.32	1.84	M	-150.48	-19.42
11hc055	40	49.32	121	23.74	4729.1	979806.96	9.25	-152.04	0.14	1.54	M	-151.87	-20.36
11hc056	40	48.50	121	23.03	4876.7	979793.44	10.83	-155.50	0.06	1.45	M	-155.44	-23.13
11hc057	40	47.83	121	22.21	4918.2	979789.04	11.33	-156.41	0.02	1.29	M	-156.51	-23.34
11hc058	40	48.52	121	22.37	4897.1	979793.72	13.00	-154.02	0.04	1.82	M	-154.10	-21.24
11hc059	40	49.39	121	23.16	4728.3	979806.97	9.08	-152.18	0.09	1.35	M	-152.20	-20.21
11hc060	40	49.78	121	22.85	4683.8	979810.27	7.62	-152.13	0.14	1.32	M	-152.18	-20.02
11hc061	40	49.68	121	22.31	4723.4	979807.75	8.97	-152.13	0.14	1.30	M	-152.20	-19.59
11hc062	40	49.61	121	21.74	4735.1	979807.18	9.60	-151.89	0.17	1.30	M	-151.96	-18.88
11hc063	40	49.83	121	23.53	4605.8	979815.97	5.91	-151.17	0.18	1.38	M	-151.15	-19.55
11hc064	40	50.85	121	23.56	4254.8	979841.31	-3.26	-148.38	0.18	1.15	M	-148.53	-17.11
11hc065	40	51.06	121	24.89	4348.4	979835.28	-0.81	-149.11	0.40	1.53	M	-148.90	-18.67
11hc066	40	49.84	121	24.86	4737.1	979806.73	9.00	-152.57	1.75	3.67	M	-150.27	-19.79
11hc067	40	50.59	121	31.29	3290.5	979899.75	-35.08	-147.31	1.39	2.91	M	-145.51	-20.26
11hc068	40	50.44	121	32.45	3378.9	979893.85	-32.45	-147.69	2.70	4.46	M	-144.36	-20.13
11hc069	40	50.38	121	33.22	3690.9	979876.13	-20.75	-146.63	1.24	2.82	M	-145.01	-21.53
11hc070	40	49.73	121	33.26	3873.3	979863.48	-15.28	-147.39	1.36	3.09	M	-145.53	-22.07
11hc071	40	48.86	121	32.28	3791.6	979865.89	-19.25	-148.57	1.91	3.76	M	-146.02	-21.50
11hc072	40	49.65	121	32.46	3772.9	979868.19	-19.89	-148.57	1.06	2.70	M	-147.08	-22.84
11hc073	40	52.55	121	34.40	3285.5	979910.71	-27.52	-139.57	0.06	1.09	M	-139.58	-17.25
11hc074	40	52.62	121	35.97	3194.8	979919.13	-27.73	-136.69	0.09	1.41	M	-136.37	-15.35
11hc075	40	52.98	121	38.07	3172.2	979923.17	-26.35	-134.54	0.25	1.47	M	-134.16	-14.93
11hc076	40	49.46	121	30.74	3305.8	979896.64	-35.07	-147.82	0.81	2.73	M	-146.20	-20.27
11hc077	40	45.18	121	29.29	3627.9	979867.10	-27.95	-151.68	0.85	4.24	M	-148.62	-20.52
11hc078	40	45.25	121	28.99	3631.9	979868.25	-26.52	-150.39	0.27	3.30	M	-148.28	-19.90
11hc079	40	45.13	121	28.63	3638.4	979867.42	-26.56	-150.66	0.11	2.92	M	-148.92	-20.18
11hc080	40	44.95	121	28.17	3650.6	979864.50	-28.07	-152.58	0.06	2.66	M	-151.10	-21.91
11hc081	40	45.08	121	27.54	3671.5	979866.28	-24.52	-149.74	0.02	2.23	M	-148.70	-18.98
11hc081	41	10.72	121	43.48	4256.1	979891.05	16.93	-128.23	0.63	1.50	M	-128.03	-5.48
11hc082	40	45.39	121	27.23	3678.9	979866.65	-23.91	-149.39	0.01	2.01	M	-148.57	-18.66
11hc083	40	45.73	121	27.00	3662.5	979868.85	-23.76	-148.68	0.03	1.94	M	-147.93	-17.88
11hc084	40	45.73	121	26.62	3677.9	979868.47	-22.70	-148.13	0.07	1.99	M	-147.33	-16.94
11hc085	40	45.90	121	26.27	3726.1	979866.78	-20.11	-147.19	0.05	1.92	M	-146.47	-15.83
11hc086	40	45.66	121	25.88	3755.0	979864.68	-19.13	-147.20	0.04	2.03	M	-146.38	-15.32
11hc087	40	45.51	121	25.50	3759.3	979863.71	-19.47	-147.69	0.17	2.34	M	-146.56	-15.12
11hc088	40	45.68	121	24.61	3982.2	979845.50	-16.99	-152.80	2.51	4.43	M	-149.62	-17.58
11hc089	40	45.40	121	24.87	3846.1	979855.62	-19.24	-150.42	1.26	3.44	M	-148.20	-16.24
11hc090	40	40.71	121	24.72	4368.1	979811.22	-7.58	-156.56	0.17	2.17	M	-155.71	-22.76
11hc091	40	43.28	121	23.78	4691.5	979794.08	1.85	-158.16	0.92	2.36	M	-157.17	-24.05
11hc092	40	44.38	121	23.81	4888.7	979784.00	8.66	-158.07	0.74	2.46	M	-157.01	-24.23
11hc093	40	45.38	121	23.63	4804.0	979792.33	7.54	-156.31	0.49	2.08	M	-155.61	-22.90
11hc094	40	45.17	121	24.26	4834.2	979787.51	5.87	-159.01	3.37	5.18	M	-155.21	-23.02
11hc095	40	45.47	121	22.80	4866.1	979788.83	9.74	-156.22	0.03	1.42	M	-156.20	-22.81
11hc096	40	45.84	121	22.21	4875.9	979788.32	9.60	-156.70	0.01	1.27	M	-156.82	-23.07
11hc097	40	45.75	121	21.76	4877.3	979787.62	9.17	-157.18	0.01	1.23	M	-157.34	-23.21
11hc098	40	45.71	121	21.26	4881.0	979787.70	9.65	-156.82	0.02	1.23	M	-156.98	-22.44
11hc099	40	45.57	121	20.76	4880.8	979788.22	10.36	-156.10	0.12	1.36	M	-156.13	-21.13
11hc100	40	44.68	121	21.67	4980.5	979779.38	12.22	-157.64	0.03	1.26	M	-157.78	-23.30
11hc101	40	43.52	121	22.07	4978.5	979777.61	11.99	-157.80	0.01	1.28	M	-157.93	-23.50
11hc102	40	43.29	121	22.68	4967.2	979777.28	10.94	-158.47	0.06	1.45	M	-158.42	-24.44
11hc103	40	40.79	121	23.52	5387.3	979740.63	17.51	-166.23	3.68	5.90	M	-161.79	-28.19
11hc104	40	40.36	121	22.77	5313.3	979747.44	18.00	-163.22	0.36	2.23	M	-162.42	-28.07
11hc105	40	39.37	121	23.11	5287.2	979747.80	17.38	-162.94	1.73	3.67	M	-160.71	-26.49
11hc106	40	38.72	121	22.69	5293.5	979747.08	18.23	-162.32	1.41	3.38	M	-160.37	-25.74
11hc107	40	39.60	121	22.53	5322.9	979746.36	18.96	-162.59	0.23	2.13	M	-161.90	-27.21
11hc108	40	39.04	121	21.87	5418.9	979739.17	21.62	-163.19	0.08	1.99	M	-162.65	-27.39
11hc109	40	39.00	121	21.35	5432.1	979737.72	21.47	-163.79	0.07	1.83	M	-163.41	-27.72
11hc110	40	38.98	121	20.73	5468.6	979735.47	22.68	-163.83	0.11	1.76	M	-163.53	-27.35
11hc111	40	38.95	121	20.24	5471.5	979736.89	24.42	-162.19	0.04	1.61	M	-162.04	-25.43

11hc112	40	42.13	121	24.30	4909.8	979775.62	5.62	-161.84	3.85	5.41	M	-157.82	-24.97
11hc113	40	40.04	121	25.09	4358.9	979809.38	-9.29	-157.95	0.07	2.10	M	-157.16	-24.46
11hc114	40	39.88	121	24.49	4358.2	979809.56	-8.93	-157.58	0.15	2.36	M	-156.53	-23.27
11hc115	40	39.21	121	23.92	4336.6	979808.94	-10.59	-158.49	0.87	3.54	M	-156.27	-22.40
11hc116	40	38.68	121	23.38	4343.1	979805.74	-12.39	-160.51	2.26	5.60	M	-156.23	-21.78
11hc117	40	38.42	121	23.63	4350.1	979807.11	-9.97	-158.34	0.86	4.34	M	-155.31	-21.07
11hc118	40	39.16	121	24.21	4362.7	979808.41	-8.59	-157.38	0.31	2.83	M	-155.88	-22.27
11hc119	40	39.02	121	24.59	4340.5	979809.19	-9.69	-157.72	0.23	2.75	M	-156.28	-22.97
11hc120	40	39.04	121	24.96	4356.3	979806.55	-10.87	-159.45	0.15	2.48	M	-158.28	-25.32
11hc121	40	38.89	121	25.23	4356.3	979807.00	-10.20	-158.77	0.31	2.64	M	-157.45	-24.72
11hc122	40	38.97	121	25.67	4480.8	979801.07	-4.54	-157.37	0.38	2.34	M	-156.36	-24.10
11hc123	40	39.01	121	26.11	4574.6	979794.95	-1.91	-157.93	0.35	2.14	M	-157.14	-25.34
11hc124	40	38.86	121	26.51	4566.3	979795.20	-2.21	-157.95	0.18	2.02	M	-157.28	-25.84
11hc125	40	38.85	121	26.89	4573.1	979794.22	-2.54	-158.51	0.04	1.90	M	-157.96	-26.91
11hc126	40	38.48	121	28.64	4708.7	979788.40	4.94	-155.66	0.29	2.28	M	-154.75	-25.49
11hc127	40	38.48	121	29.16	4801.3	979782.18	7.42	-156.33	1.27	3.26	M	-154.45	-25.76
11hc128	40	38.41	121	29.63	4942.1	979773.37	11.95	-156.61	0.97	2.92	M	-155.08	-26.94
11hc129	40	38.42	121	30.17	5021.4	979768.74	14.76	-156.50	1.01	3.05	M	-154.86	-27.33
11hc130	40	45.26	121	29.63	3728.6	979860.03	-25.67	-152.84	1.68	4.99	M	-149.05	-21.32
11hc131	40	45.07	121	29.98	4119.3	979835.10	-13.59	-154.08	1.98	4.80	M	-150.56	-23.27
11hc132	40	44.88	121	30.29	4566.9	979805.47	-0.86	-156.62	2.26	5.00	M	-152.97	-26.07
11hc133	40	45.08	121	30.96	4898.6	979785.38	9.93	-157.14	2.12	5.18	M	-153.36	-27.27
11hc134	40	56.88	121	34.24	3064.9	979931.99	-33.44	-137.97	0.06	0.52	M	-138.50	-16.04
11hc135	40	56.03	121	33.98	3053.6	979931.42	-33.80	-137.95	0.28	0.83	M	-138.17	-15.52
11hc136	40	55.29	121	33.84	3161.9	979922.86	-31.08	-138.92	0.21	0.72	M	-139.27	-16.59
11hc137	40	55.17	121	33.23	3211.4	979918.04	-31.06	-140.59	0.05	0.55	M	-141.13	-17.99
11hc138	40	55.11	121	32.64	3196.8	979917.08	-33.31	-142.34	0.03	0.55	M	-142.87	-19.24
11hc139	40	55.20	121	32.11	3186.0	979917.08	-34.46	-143.12	0.08	0.61	M	-143.59	-19.56
11hc140	40	55.43	121	31.76	3245.3	979912.78	-33.52	-144.21	0.09	0.57	M	-144.74	-20.46
11hc141	40	55.44	121	31.32	3295.2	979909.39	-32.24	-144.62	0.05	0.51	M	-145.22	-20.62
11hc142	40	55.31	121	30.97	3317.7	979906.78	-32.54	-145.69	0.05	0.52	M	-146.28	-21.41
11hc143	40	55.21	121	30.63	3351.6	979904.16	-31.82	-146.13	0.09	0.57	M	-146.69	-21.55
11hc144	40	55.18	121	30.03	3463.7	979896.67	-28.73	-146.86	0.07	0.53	M	-147.49	-21.91
11hc145	40	55.27	121	29.45	3496.3	979893.99	-28.48	-147.72	0.09	0.54	M	-148.34	-22.33
11hc146	40	55.13	121	28.95	3576.5	979888.53	-26.19	-148.17	0.11	0.56	M	-148.79	-22.42
11hc147	40	55.35	121	28.63	3671.1	979883.33	-22.83	-148.03	0.10	0.55	M	-148.67	-22.10
11hc148	40	55.43	121	28.22	3743.4	979880.02	-19.46	-147.13	0.18	0.66	M	-147.68	-20.82
11hc149	40	55.54	121	27.71	3710.6	979884.50	-18.23	-144.78	0.24	0.67	M	-145.31	-18.07
11hc150	40	55.64	121	27.24	3892.5	979872.07	-13.71	-146.46	0.43	1.01	M	-146.69	-19.14
11hc151	40	57.40	121	26.33	3540.4	979901.14	-20.36	-141.11	0.15	0.50	M	-141.78	-13.62
11hc152	40	57.38	121	25.83	3535.8	979901.25	-20.65	-141.25	0.08	0.45	M	-141.97	-13.45
11hc153	40	57.24	121	25.23	3587.9	979897.32	-19.48	-141.85	0.05	0.41	M	-142.61	-13.65
11hc154	40	57.10	121	24.80	3538.3	979900.03	-21.22	-141.90	0.04	0.43	M	-142.64	-13.35
11hc155	40	56.98	121	24.36	3570.4	979897.12	-20.94	-142.71	0.06	0.46	M	-143.42	-13.78
11hc156	40	56.82	121	23.86	3609.5	979894.84	-19.30	-142.41	0.10	0.52	M	-143.07	-13.04
11hc157	40	56.87	121	23.38	3702.9	979887.75	-17.69	-143.98	0.16	0.58	M	-144.60	-14.23
11hc158	40	56.86	121	22.95	3808.1	979880.55	-14.98	-144.86	0.12	0.58	M	-145.49	-14.82
11hc159	40	56.87	121	22.45	3833.6	979878.33	-14.82	-145.57	0.09	0.57	M	-146.22	-15.19
11hc160	40	56.78	121	21.96	3806.7	979879.92	-15.62	-145.46	0.11	0.58	M	-146.09	-14.67
11hc161	40	56.66	121	21.40	3764.0	979882.65	-16.73	-145.10	0.09	0.57	M	-145.75	-13.87
11hc162	40	56.50	121	20.84	3688.0	979887.68	-18.60	-144.39	0.11	0.66	M	-144.92	-12.58
11hc163	40	57.16	121	20.65	3701.0	979889.06	-16.99	-143.21	0.07	0.53	M	-143.88	-11.51
11hc164	40	57.69	121	20.07	3615.6	979895.05	-19.82	-143.13	0.10	0.57	M	-143.74	-11.01
11hc165	40	56.42	121	19.77	3829.8	979878.04	-14.79	-145.41	0.14	0.70	M	-145.94	-12.79
11hc166	40	54.98	121	34.11	3235.6	979918.88	-27.66	-138.02	0.08	0.58	M	-138.54	-16.08
11hc167	40	54.91	121	34.51	3236.4	979918.97	-27.40	-137.78	0.18	0.68	M	-138.19	-16.05
11hc168	40	54.92	121	34.87	3215.7	979920.56	-27.77	-137.44	0.27	0.78	M	-137.75	-15.88
11hc169	40	54.97	121	35.28	3191.2	979922.69	-28.01	-136.85	0.32	0.84	M	-137.10	-15.55
11hc170	40	55.30	121	36.76	3040.2	979934.72	-30.67	-134.36	0.55	1.21	M	-134.21	-13.79
11hc171	40	55.00	121	36.37	3092.9	979929.73	-30.26	-135.75	0.07	0.70	M	-136.11	-15.41
11hc172	41	1.72	121	39.30	2747.4	979964.41	-38.09	-131.80	0.14	1.29	M	-131.48	-11.41
11hc173	41	0.41	121	38.92	2986.8	979949.88	-28.16	-130.03	0.74	1.33	M	-129.74	-9.94
11hc174	41	1.02	121	39.50	2925.6	979952.96	-31.75	-131.53	0.79	1.54	M	-131.01	-11.39
11hc175	41	0.87	121	40.74	2876.3	979956.01	-33.11	-131.21	2.81	3.89	M	-128.32	-9.55
11hc176	41	0.44	121	41.41	2729.2	979965.35	-36.95	-130.04	2.78	4.41	M	-126.60	-8.41
11hc177	41	0.62	121	42.21	2554.2	979975.45	-43.58	-130.69	3.17	5.65	M	-125.96	-8.21
11hc178	41	0.51	121	42.73	2503.9	979979.24	-44.35	-129.75	4.48	7.29	M	-123.37	-6.02
11hc179	41	0.28	121	43.16	2502.3	979977.51	-45.89	-131.23	4.49	7.32	M	-124.82	-7.86
11hc180	40	59.94	121	43.56	2478.5	979979.91	-45.22	-129.75	4.90	7.86	M	-122.80	-6.25
11hc181	40	59.67	121	44.25	2453.8	979980.04	-47.01	-130.70	6.22	9.45	M	-122.14	-6.21

11hc182	40	59.92	121	44.89	2446.5	979984.14	-43.97	-127.41	3.32	7.20	M	-121.10	-5.50
11hc183	40	59.97	121	45.42	2435.3	979986.96	-42.28	-125.33	3.02	7.55	M	-118.68	-3.44
11hc184	40	59.71	121	45.89	2435.6	979985.19	-43.63	-126.70	4.91	9.67	M	-117.91	-3.14
11hc185	40	59.27	121	46.31	2465.7	979979.79	-45.54	-129.64	7.02	11.73	M	-118.81	-4.55
11hc186	40	58.47	121	46.73	2357.2	979988.55	-45.79	-126.18	5.12	10.33	M	-116.72	-3.20
11hc187	40	58.07	121	47.36	2528.4	979979.83	-37.82	-124.05	3.84	8.25	M	-116.72	-3.92
11hc188	40	58.40	121	33.72	2952.9	979939.70	-38.53	-139.24	0.60	1.11	M	-139.15	-16.19
11hc189	40	58.73	121	32.94	2765.7	979952.56	-43.76	-138.09	0.23	1.16	M	-137.91	-14.30
11hc190	40	59.01	121	32.12	2801.0	979952.72	-40.70	-136.23	0.16	1.16	M	-136.06	-11.86
11hc191	40	59.84	121	29.73	3383.5	979916.66	-23.24	-138.63	2.17	2.65	M	-137.12	-11.34
11hc192	40	59.74	121	27.66	3452.1	979912.46	-20.84	-138.57	0.25	0.55	M	-139.17	-12.01
11hc193	41	0.48	121	27.32	3330.9	979918.88	-26.92	-140.52	0.09	0.41	M	-141.22	-13.77
11hc194	40	51.49	121	32.30	3229.8	979906.62	-35.26	-145.42	0.05	1.47	M	-145.04	-20.79
11hc195	40	55.52	121	38.68	3087.2	979932.72	-28.58	-133.87	0.02	0.64	M	-134.29	-15.38
11hc196	40	55.60	121	39.60	3139.8	979930.82	-25.66	-132.74	0.12	0.74	M	-133.08	-14.94
11hc197	40	55.71	121	40.25	3183.4	979928.20	-24.34	-132.92	0.19	0.79	M	-133.21	-15.57
11hc198	40	52.28	121	36.30	3283.9	979913.10	-24.88	-136.88	0.20	1.69	M	-136.30	-15.61
11hc199	40	51.66	121	36.53	3539.1	979893.86	-19.20	-139.90	0.63	2.32	M	-138.75	-18.30
11hc200	40	51.55	121	37.29	3617.0	979890.23	-15.34	-138.70	1.61	3.36	M	-136.52	-16.74
11hc201	40	51.95	121	35.90	3411.4	979903.20	-22.30	-138.65	0.41	1.91	M	-137.87	-16.82
11hc202	40	51.80	121	35.18	3647.7	979886.43	-16.63	-141.04	0.65	1.95	M	-140.28	-18.67
11hc203	40	51.24	121	34.85	3768.1	979876.22	-14.68	-143.20	0.44	1.97	M	-142.44	-20.50
11hc204	40	50.67	121	34.74	3853.5	979868.20	-13.83	-145.25	1.91	3.68	M	-142.80	-20.75
11hc205	40	50.46	121	34.14	4120.5	979849.12	-7.49	-148.03	1.50	3.24	M	-146.07	-23.52
11hc206	40	49.91	121	34.44	4513.8	979824.08	5.26	-148.69	1.13	3.41	M	-146.62	-24.41
11hc207	40	50.21	121	35.13	4498.5	979825.91	5.20	-148.23	1.46	3.88	M	-145.69	-24.11
11hc208	40	50.15	121	35.74	4394.6	979830.71	0.32	-149.56	1.46	3.90	M	-146.98	-25.95
11hc209	40	50.28	121	36.38	4354.0	979837.68	3.28	-145.22	0.73	3.37	M	-143.16	-22.72
11hc210	40	50.16	121	36.98	4425.2	979833.95	6.42	-144.50	1.32	4.34	M	-141.49	-21.59
11hc211	40	50.01	121	33.74	4249.2	979839.41	-4.43	-149.36	1.44	3.26	M	-147.40	-24.48
11hc212	40	49.37	121	33.87	4393.4	979830.79	1.45	-148.39	0.66	2.58	M	-147.13	-24.32
11hc213	40	48.52	121	34.00	4515.1	979823.15	6.52	-147.47	0.28	2.25	M	-146.56	-23.79
11hc214	40	47.57	121	33.40	4553.7	979819.71	8.13	-147.18	0.21	2.16	M	-146.37	-22.91
11hc215	40	47.30	121	33.99	4614.4	979817.39	11.91	-145.46	0.11	2.18	M	-144.64	-21.72
11hc216	40	47.05	121	34.69	4719.7	979812.29	17.09	-143.89	0.09	2.33	M	-142.93	-20.71
11hc217	40	46.72	121	34.97	4739.1	979810.72	17.83	-143.80	0.50	2.92	M	-142.26	-20.29
11hc218	40	46.42	121	35.30	4744.9	979808.11	16.21	-145.62	1.51	4.12	M	-142.88	-21.23
11hc219	40	46.56	121	36.44	4689.0	979814.68	17.32	-142.60	0.30	3.09	M	-140.88	-20.40
11hc220	40	46.83	121	36.90	4693.4	979814.12	16.77	-143.30	0.82	3.76	M	-140.91	-20.89
11hc221	40	46.82	121	38.52	4987.9	979797.71	28.06	-142.06	0.61	3.32	M	-140.14	-21.92
11hc222	40	47.03	121	39.57	4791.7	979811.01	22.60	-140.82	0.50	3.04	M	-139.17	-22.02
11hc223	40	45.24	121	38.26	5400.1	979766.96	38.40	-145.77	0.37	3.01	M	-144.21	-25.86
11hc224	40	46.09	121	38.18	5058.7	979791.62	29.71	-142.82	0.52	2.89	M	-141.35	-22.80
11hc225	40	46.10	121	35.72	4744.9	979808.26	16.84	-144.99	0.39	3.19	M	-143.18	-21.93
11hc226	40	44.83	121	36.53	5327.4	979769.73	34.95	-146.74	0.50	3.57	M	-144.61	-24.33
11hc227	41	2.01	121	37.67	3078.0	979938.14	-33.72	-138.69	0.40	0.92	M	-138.83	-17.69
11hc228	41	1.86	121	37.06	3176.9	979931.92	-30.41	-138.77	0.24	0.70	M	-139.15	-17.72
11hc229	41	2.04	121	36.61	3226.0	979930.02	-27.97	-137.99	0.11	0.61	M	-138.47	-16.72
11hc230	41	2.21	121	36.16	3234.3	979930.99	-26.47	-136.78	0.10	0.66	M	-137.21	-15.12
11hc231	41	2.38	121	35.62	3219.6	979933.39	-25.71	-135.51	0.36	1.01	M	-135.60	-13.11
11hc232	41	2.14	121	35.25	3234.2	979931.89	-25.48	-135.78	0.50	1.08	M	-135.80	-13.17
11hc233	41	1.79	121	34.69	3380.5	979920.17	-22.92	-138.21	0.73	1.22	M	-138.12	-15.26
11hc234	41	2.40	121	34.73	3675.3	979906.20	-10.09	-135.44	0.68	1.41	M	-135.22	-12.25
11hc235	41	2.97	121	34.50	3803.9	979900.18	-4.87	-134.60	0.60	1.47	M	-134.35	-11.12
11hc236	41	3.63	121	34.83	4172.1	979876.19	4.77	-137.53	1.26	2.83	M	-135.98	-12.82
11hc237	41	4.19	121	35.03	4312.3	979868.03	8.95	-138.13	0.99	2.93	M	-136.50	-13.30
11hc238	41	4.78	121	34.66	4548.0	979849.72	11.91	-143.20	2.22	4.95	M	-139.60	-16.01
11hc239	41	4.28	121	34.21	5048.0	979813.31	23.25	-148.92	2.73	8.74	M	-141.59	-18.05
11hc240	41	4.48	121	33.77	5440.7	979781.34	27.89	-157.68	8.36	17.63	M	-141.50	-17.70
11hc241	41	3.10	121	33.88	3676.8	979909.83	-7.36	-132.76	0.67	1.36	M	-132.59	-8.93
11hc242	41	3.23	121	33.34	3783.4	979902.61	-4.75	-133.79	0.72	1.45	M	-133.55	-9.56
11hc243	41	3.34	121	32.85	3547.3	979916.30	-13.42	-134.41	0.72	1.30	M	-134.27	-9.89
11hc244	41	3.61	121	32.36	3392.0	979926.00	-18.73	-134.41	0.62	1.21	M	-134.33	-9.54
11hc245	41	4.25	121	32.31	3344.5	979927.78	-22.37	-136.44	1.52	2.14	M	-135.42	-10.42
11hc246	41	3.71	121	31.71	3321.6	979926.53	-24.96	-138.25	0.08	0.58	M	-138.78	-13.58
11hc247	41	3.71	121	31.11	3316.8	979923.01	-28.93	-142.06	0.00	0.36	M	-142.81	-17.27
11hc248	41	3.71	121	30.48	3314.7	979919.63	-32.51	-145.56	0.00	0.28	M	-146.40	-20.46
11hc249	41	3.70	121	29.99	3310.6	979918.05	-34.46	-147.37	0.00	0.24	M	-148.25	-22.02
11hc250	41	3.71	121	29.32	3310.1	979920.00	-32.57	-145.47	0.00	0.21	M	-146.38	-19.75
11hc251	41	3.75	121	28.63	3306.6	979918.86	-34.10	-146.88	0.00	0.19	M	-147.81	-20.76

11hc252	41	3.18	121	28.18	3309.4	979915.80	-36.05	-148.92	0.00	0.20	M	-149.83	-22.61
11hc253	41	2.68	121	28.18	3314.0	979917.64	-33.03	-146.06	0.00	0.24	M	-146.93	-19.78
11hc254	41	2.13	121	28.18	3321.1	979921.60	-27.58	-140.85	0.04	0.36	M	-141.61	-14.53
11hc255	41	3.70	121	27.90	3310.9	979915.45	-37.03	-149.96	0.00	0.17	M	-150.90	-23.41
11hc256	41	4.32	121	27.32	3306.8	979911.37	-42.43	-155.21	0.00	0.15	M	-156.17	-28.20
11hc257	41	3.25	121	27.60	3311.3	979912.41	-39.36	-152.30	0.00	0.18	M	-153.23	-25.63
11hc258	41	3.06	121	26.90	3313.3	979909.00	-42.30	-155.31	0.00	0.18	M	-156.24	-28.22
11hc259	41	3.05	121	26.19	3309.3	979907.17	-44.49	-157.36	0.00	0.17	M	-158.30	-29.83
11hc260	41	3.06	121	25.59	3309.5	979906.75	-44.91	-157.78	0.00	0.17	M	-158.72	-29.87
11hc261	41	3.06	121	24.92	3309.1	979906.75	-44.95	-157.81	0.00	0.18	M	-158.74	-29.45
11hc262	41	3.06	121	24.40	3308.5	979907.87	-43.88	-156.72	0.00	0.19	M	-157.65	-28.02
11hc263	41	3.48	121	24.16	3308.0	979911.09	-41.34	-154.16	0.00	0.19	M	-155.08	-25.24
11hc264	41	4.05	121	23.93	3315.0	979914.86	-37.76	-150.82	0.00	0.20	M	-151.74	-21.67
11hc265	41	4.63	121	24.06	3307.1	979913.92	-40.31	-153.10	0.00	0.21	M	-154.00	-23.91
11hc266	41	5.29	121	24.35	3309.0	979912.80	-42.24	-155.10	0.00	0.22	M	-155.99	-25.98
11hc267	41	5.99	121	24.67	3305.1	979913.44	-43.01	-155.73	0.01	0.23	M	-156.61	-26.66
11hc268	41	3.95	121	24.50	3301.5	979909.44	-44.30	-156.90	0.01	0.20	M	-157.81	-28.13
11hc269	41	4.45	121	24.62	3302.5	979908.88	-45.51	-158.15	0.00	0.20	M	-159.07	-29.42
11hc270	41	4.94	121	24.73	3301.5	979909.65	-45.57	-158.17	0.00	0.20	M	-159.08	-29.39
11hc271	41	4.92	121	25.40	3301.1	979907.10	-48.13	-160.72	0.00	0.18	M	-161.65	-32.35
11hc272	41	4.87	121	26.10	3303.0	979906.98	-47.99	-160.65	0.00	0.16	M	-161.59	-32.74
11hc273	41	4.77	121	26.79	3306.4	979908.34	-46.17	-158.93	0.00	0.15	M	-159.89	-31.48
11hc274	41	4.39	121	23.29	3312.4	979916.93	-36.44	-149.42	0.00	0.24	M	-150.29	-19.79
11hc275	41	3.95	121	23.28	3317.8	979917.64	-34.57	-147.73	0.00	0.23	M	-148.61	-18.16
11hc276	41	5.50	121	21.86	3314.0	979921.40	-33.48	-146.51	0.05	0.45	M	-147.17	-15.58
11hc277	41	4.62	121	21.84	3314.7	979919.96	-33.54	-146.59	0.00	0.34	M	-147.36	-15.90
11hc278	41	4.46	121	28.87	3307.9	979916.85	-37.05	-149.87	0.00	0.16	M	-150.82	-23.74
11hc279	41	4.34	121	29.43	3309.8	979917.46	-36.08	-148.97	0.00	0.18	M	-149.90	-23.19
11hc280	41	5.11	121	29.53	3307.8	979916.95	-37.93	-150.75	0.00	0.18	M	-151.68	-24.81
11hc281	41	6.80	121	29.06	3323.1	979916.71	-39.26	-152.60	0.01	0.17	M	-153.54	-25.92
11hc282	41	6.54	121	29.64	3312.5	979918.77	-37.81	-150.78	0.00	0.17	M	-151.72	-24.48
11hc283	41	5.88	121	28.19	3307.8	979913.87	-42.16	-154.98	0.00	0.16	M	-155.93	-28.08
11hc284	41	5.88	121	28.80	3311.4	979916.28	-39.41	-152.35	0.00	0.16	M	-153.31	-25.80
11hc285	41	5.88	121	29.52	3317.7	979918.47	-36.63	-149.79	0.00	0.17	M	-150.73	-23.62
11hc286	41	4.80	121	30.23	3314.4	979919.49	-34.31	-147.35	0.00	0.22	M	-148.25	-21.87
11hc287	41	4.80	121	32.38	3344.5	979927.23	-23.74	-137.81	1.05	1.64	M	-137.28	-12.14
11hc288	41	4.80	121	31.35	3322.0	979923.94	-29.14	-142.44	0.00	0.40	M	-143.16	-17.43
11hc289	40	51.81	121	33.42	3248.2	979908.99	-31.64	-142.42	0.08	1.45	M	-142.07	-18.85
11hc290	40	48.56	121	30.94	3334.1	979893.36	-34.35	-148.06	1.61	4.21	M	-144.97	-19.05
11hc291	40	47.71	121	30.83	3800.6	979861.17	-21.41	-151.04	2.95	4.90	M	-147.35	-21.27
11hc292	40	47.20	121	30.99	4250.8	979830.98	-8.52	-153.50	2.73	4.70	M	-150.10	-24.19
11hc293	40	46.80	121	31.52	4586.8	979809.90	2.58	-153.86	1.22	3.60	M	-151.62	-26.26
11hc294	40	46.76	121	32.14	4563.8	979813.69	4.26	-151.39	0.91	3.21	M	-149.53	-24.73
11hc295	40	46.98	121	32.62	4485.7	979822.10	5.00	-147.99	0.50	2.65	M	-146.67	-22.37
11hc296	40	47.30	121	32.94	4540.8	979819.88	7.49	-147.38	0.26	2.27	M	-146.46	-22.52
11hc297	40	46.10	121	31.47	4617.0	979807.56	4.12	-153.35	1.10	3.71	M	-151.00	-25.50
11hc298	40	44.70	121	31.31	5139.7	979771.29	19.07	-156.23	1.36	4.69	M	-152.97	-27.23
11hc299	40	44.69	121	31.88	5316.4	979761.24	25.64	-155.68	1.36	4.86	M	-152.27	-27.16
11hc300	40	45.22	121	32.42	5476.5	979751.90	30.55	-156.23	1.83	5.65	M	-152.04	-27.58
11hc301	40	45.51	121	33.00	5619.8	979743.23	34.92	-156.75	1.95	6.11	M	-152.11	-28.35
11hc302	40	43.91	121	31.07	5591.6	979738.19	29.61	-161.09	1.34	5.37	M	-157.18	-31.24
11hc303	40	42.61	121	30.94	5581.8	979742.78	35.22	-155.15	0.56	3.87	M	-152.74	-26.50
11hc304	40	42.62	121	31.91	5871.6	979724.54	44.20	-156.06	0.27	3.87	M	-153.67	-28.52
11hc305	40	42.10	121	31.55	5956.8	979719.27	47.71	-155.45	0.53	4.17	M	-152.77	-27.22
11hc306	40	41.66	121	30.26	5849.2	979721.19	40.18	-159.32	0.70	4.37	M	-156.43	-29.49
11hc307	40	43.14	121	31.15	5578.6	979742.69	34.04	-156.22	0.69	4.15	M	-153.54	-27.60
11hc308	40	44.54	121	29.55	4262.1	979824.95	-9.52	-154.89	1.59	4.24	M	-151.95	-24.18
11hc309	40	44.02	121	29.21	4022.4	979838.95	-17.28	-154.47	1.46	4.68	M	-151.05	-22.77
11hc310	40	43.48	121	28.72	3980.6	979840.79	-18.57	-154.33	0.73	4.17	M	-151.41	-22.55
11hc311	40	43.63	121	27.89	4014.6	979840.58	-15.80	-152.73	0.44	3.01	M	-150.97	-21.37
11hc312	40	43.48	121	27.02	3995.4	979842.55	-15.41	-151.68	0.58	2.95	M	-149.98	-19.55
11hc313	40	43.04	121	29.33	4380.4	979815.69	-5.43	-154.83	1.28	4.49	M	-151.66	-23.46
11hc314	40	42.26	121	29.16	4796.5	979786.56	5.72	-157.87	1.94	4.46	M	-154.79	-26.44
11hc315	40	41.70	121	28.77	5074.4	979769.27	15.38	-157.69	1.44	3.69	M	-155.41	-26.71
11hc316	40	40.81	121	28.84	4981.7	979774.89	13.61	-156.29	1.34	3.52	M	-154.18	-25.40
11hc317	40	40.41	121	29.57	4896.9	979779.89	11.24	-155.77	1.92	4.48	M	-152.69	-24.60
11hc318	40	40.16	121	28.87	4673.2	979793.02	3.72	-155.67	0.72	3.20	M	-153.83	-24.92
11hc319	40	39.17	121	28.79	4782.4	979784.63	7.07	-156.04	1.31	3.29	M	-154.13	-25.08
11hc320	40	38.58	121	28.23	4618.8	979793.88	1.82	-155.71	0.29	2.33	M	-154.74	-25.02
11hc321	40	36.94	121	28.13	4823.0	979778.35	7.93	-156.57	0.06	2.17	M	-155.78	-26.02

11hc322	40	36.40	121	27.62	4899.0	979771.44	8.96	-158.12	0.14	2.52	M	-157.00	-26.78
11hc323	40	35.64	121	22.71	8174.0	979529.79	76.19	-202.59	9.96	25.69	M	-178.35	-44.88
11hc324	40	35.35	121	22.92	7672.2	979573.93	73.62	-188.05	3.65	13.92	M	-175.61	-42.12
11hc325	40	34.89	121	23.10	7279.1	979603.19	66.63	-181.63	3.75	10.43	M	-172.70	-39.24
11hc326	40	34.25	121	22.76	6623.3	979648.80	51.58	-174.32	1.08	4.56	M	-171.27	-37.29
11hc327	40	34.11	121	23.35	6378.4	979665.39	45.36	-172.18	0.46	3.54	M	-170.14	-36.59
11hc328	40	34.02	121	24.12	6174.2	979677.75	38.67	-171.91	1.04	3.94	M	-169.47	-36.57
11hc329	40	34.99	121	24.68	5921.4	979695.18	30.89	-171.06	1.34	4.39	M	-168.16	-35.53
11hc330	40	35.76	121	25.51	5272.2	979741.07	14.62	-165.19	1.93	4.88	M	-161.74	-29.59
11hc331	40	35.99	121	26.17	5066.6	979755.73	9.62	-163.19	1.18	4.01	M	-160.59	-28.97
11hc332	40	35.99	121	26.92	5030.5	979760.42	10.91	-160.66	0.65	3.30	M	-158.77	-27.89
11hc333	40	37.39	121	28.80	4891.4	979775.57	10.90	-155.92	0.06	1.96	M	-155.36	-26.33
11hc334	41	3.05	121	38.21	3101.4	979938.06	-33.15	-138.93	0.08	0.73	M	-139.26	-18.09
11hc335	41	2.47	121	38.87	3127.7	979937.40	-30.47	-137.14	0.94	1.51	M	-136.71	-16.16
11hc336	41	2.54	121	39.56	3095.6	979944.53	-26.46	-132.04	0.91	1.59	M	-131.51	-11.37
11hc337	41	2.64	121	40.33	2854.6	979962.76	-31.04	-128.40	0.80	2.16	M	-127.24	-7.46
11hc338	41	1.59	121	40.26	2804.9	979962.35	-34.55	-130.22	0.25	1.42	M	-129.79	-10.39
11hc339	41	1.62	121	40.83	2921.5	979955.96	-30.03	-129.67	0.14	1.20	M	-129.48	-10.48
11hc340	41	1.40	121	41.41	2957.0	979951.90	-30.42	-131.27	0.17	1.27	M	-131.03	-12.50
11hc341	41	1.42	121	42.10	2986.6	979952.90	-26.67	-128.53	0.53	1.78	M	-127.79	-9.73
11hc342	41	1.68	121	42.80	3045.7	979949.98	-24.42	-128.30	1.49	3.02	M	-126.33	-8.61
11hc343	41	2.48	121	42.94	3264.3	979937.45	-17.59	-128.93	1.90	3.38	M	-126.65	-8.66
11hc344	41	3.24	121	43.07	3571.8	979920.49	-6.78	-128.60	1.45	2.77	M	-127.00	-8.75
11hc345	41	2.37	121	41.98	3518.3	979919.53	-11.47	-131.47	1.29	2.20	M	-130.42	-11.92
11hc346	41	2.94	121	42.02	3562.9	979918.78	-8.88	-130.40	0.54	1.51	M	-130.06	-11.34
11hc347	41	1.27	121	43.23	3160.5	979942.52	-20.47	-128.27	0.95	2.26	M	-127.09	-9.89
11hc348	41	1.12	121	43.65	3208.5	979939.61	-18.65	-128.08	0.84	2.17	M	-126.99	-10.15
11hc349	41	1.40	121	44.27	3484.2	979924.01	-8.75	-127.58	1.22	2.63	M	-126.10	-9.57
11hc350	41	1.51	121	44.86	3713.7	979910.20	-1.15	-127.81	1.27	2.82	M	-126.19	-10.02
11hc351	41	1.52	121	45.45	3748.6	979908.48	0.40	-127.45	1.68	3.32	M	-125.34	-9.59
11hc352	41	1.26	121	46.15	3992.6	979893.72	8.96	-127.21	1.92	3.66	M	-124.80	-9.71
11hc353	41	0.88	121	47.39	4170.6	979883.66	16.20	-126.04	0.44	2.64	M	-124.69	-10.68
11hc354	41	0.70	121	48.35	4394.8	979869.59	23.48	-126.41	1.08	3.88	M	-123.85	-10.67
11hc355	41	0.16	121	47.44	4508.4	979861.35	26.72	-127.04	1.32	4.89	M	-123.49	-10.00
11hc356	41	0.16	121	48.56	4905.5	979833.50	36.20	-131.11	2.79	8.46	M	-124.05	-11.44
11hc357	41	0.44	121	49.71	4833.7	979837.51	33.04	-131.82	5.17	11.57	M	-121.63	-9.64
11hc358	41	1.04	121	48.00	4218.4	979882.09	18.89	-124.99	0.42	2.64	M	-123.64	-9.96
11hc359	41	1.96	121	48.37	3817.3	979910.87	8.59	-121.60	1.83	3.61	M	-119.22	-5.14
11hc360	41	1.96	121	49.09	3666.0	979921.41	4.91	-120.13	1.85	3.72	M	-117.60	-3.96
11hc361	41	1.80	121	50.21	3403.1	979938.10	-2.88	-118.95	1.97	3.83	M	-116.25	-3.43
11hc362	41	2.19	121	51.18	3246.4	979951.26	-5.03	-115.76	2.41	4.10	M	-112.76	-0.29
11hc363	41	2.65	121	51.44	2912.0	979974.14	-14.28	-113.60	2.26	4.11	M	-110.50	2.23
11hc364	41	3.02	121	52.14	2611.7	979994.10	-23.10	-112.18	0.95	3.16	M	-109.96	2.68
11hc365	41	2.60	121	52.60	2415.8	980005.05	-29.95	-112.34	1.02	3.37	M	-109.85	2.19
11hc366	41	3.02	121	53.67	2721.1	979985.51	-21.41	-114.22	0.29	1.88	M	-113.30	-1.65
11hc367	41	3.77	121	53.60	2786.8	979980.95	-20.91	-115.96	0.31	2.01	M	-114.93	-2.61
11hc368	41	2.10	121	53.39	2216.2	980017.68	-35.34	-110.92	1.04	3.33	M	-108.41	2.73
11hc369	41	1.90	121	54.17	2076.4	980027.26	-38.60	-109.42	1.06	3.24	M	-106.96	3.51
11hc370	41	1.81	121	55.34	1889.8	980041.41	-41.86	-106.32	0.50	2.87	M	-104.17	5.49
11hc371	41	2.40	121	55.68	1646.5	980053.09	-53.94	-110.10	0.98	4.65	M	-106.09	3.94
11hc372	41	3.04	121	55.77	1739.1	980047.69	-51.59	-110.91	1.12	4.88	M	-106.70	3.83
11hc373	41	3.79	121	55.42	1742.1	980045.07	-55.05	-114.47	1.56	6.24	M	-108.89	2.52
11hc374	41	2.33	121	56.65	2059.7	980030.13	-37.95	-108.19	1.17	3.23	M	-105.74	3.52
11hc375	41	2.89	121	57.41	2306.5	980010.52	-35.19	-113.85	1.15	2.89	M	-111.82	-2.54
11hc376	41	3.94	121	59.20	2698.3	979985.67	-24.77	-116.79	0.89	2.79	M	-114.97	-5.73
11hc377	41	3.84	121	58.42	2708.3	979987.15	-22.20	-114.57	0.56	2.21	M	-113.32	-3.77
11hc378	41	1.29	121	54.58	1697.6	980048.31	-52.26	-110.16	0.34	3.54	M	-107.28	2.45
11hc379	41	0.87	121	54.29	1797.5	980039.48	-51.07	-112.38	0.19	3.07	M	-109.99	-0.43
11hc380	40	57.90	121	56.25	2999.9	979966.43	-6.63	-108.95	0.11	1.08	M	-108.90	-3.48
11hc381	40	52.90	121	41.74	3311.7	979914.00	-22.29	-135.24	0.12	1.16	M	-135.19	-19.35
11hc382	40	53.60	121	41.88	3350.0	979911.71	-22.02	-136.28	0.06	0.91	M	-136.48	-20.65
11hc383	40	54.36	121	42.12	3243.5	979920.02	-24.86	-135.48	0.17	1.01	M	-135.57	-19.81
11hc384	40	55.07	121	42.79	3285.9	979918.79	-23.16	-135.23	0.38	1.16	M	-135.17	-19.85
11hc385	40	56.17	121	43.57	3218.4	979925.49	-24.45	-134.21	0.76	1.61	M	-133.70	-18.67
11hc386	40	56.53	121	44.19	3256.4	979925.01	-21.89	-132.96	0.44	1.37	M	-132.69	-18.10
11hc387	41	0.51	121	39.70	3243.0	979931.84	-22.26	-132.87	1.18	1.71	M	-132.25	-13.00
11hc388	41	0.47	121	40.43	3481.3	979914.49	-17.15	-135.89	3.78	4.49	M	-132.55	-13.83
11hc389	40	59.92	121	40.24	3632.6	979903.59	-13.01	-136.90	2.21	3.12	M	-134.96	-16.34
11hc390	40	59.42	121	40.47	3793.2	979892.54	-8.21	-137.58	2.10	3.30	M	-135.50	-17.23
11hc391	40	59.86	121	41.49	3663.6	979902.65	-10.94	-135.89	2.27	3.16	M	-133.92	-16.18

11hc392	40	59.70	121	42.09	3533.0	979912.48	-13.15	-133.65	0.87	1.61	M	-133.20	-15.91
11hc393	40	58.78	121	42.35	3451.2	979915.77	-16.18	-133.89	0.47	1.12	M	-133.91	-17.15
11hc394	40	58.42	121	43.29	3326.6	979923.81	-19.31	-132.77	0.30	0.97	M	-132.92	-16.98
12hc001	40	59.59	121	27.09	3401.9	979912.34	-25.45	-141.48	0.07	0.37	M	-142.24	-14.67
12hc002	41	1.24	121	26.63	3322.4	979915.27	-32.46	-145.77	0.00	0.24	M	-146.65	-18.67
12hc003	41	1.42	121	26.77	3323.0	979915.15	-32.79	-146.13	0.02	0.26	M	-146.99	-19.12
12hc004	41	1.31	121	26.16	3321.6	979913.01	-34.90	-148.19	0.01	0.23	M	-149.07	-20.78
12hc005	41	3.00	121	23.85	3308.0	979911.95	-39.76	-152.58	0.03	0.23	M	-153.47	-23.47
12hc006	41	3.26	121	21.59	3259.8	979922.38	-34.25	-145.43	0.09	0.43	M	-146.10	-14.59
12hc007	41	3.03	121	20.45	3287.7	979919.56	-34.10	-146.24	0.04	0.44	M	-146.90	-14.63
12hc008	41	2.85	121	19.82	3263.5	979921.83	-33.84	-145.15	0.12	0.61	M	-145.63	-12.93
12hc009	41	2.39	121	19.83	3302.8	979918.63	-32.66	-145.31	0.07	0.50	M	-145.91	-13.23
12hc010	41	1.84	121	19.83	3291.3	979919.78	-31.77	-144.02	0.04	0.48	M	-144.66	-12.00
12hc011	41	1.80	121	20.68	3316.7	979918.30	-30.80	-143.92	0.00	0.34	M	-144.69	-12.62
12hc012	41	2.22	121	20.71	3312.7	979918.23	-31.87	-144.86	0.03	0.37	M	-145.60	-13.54
12hc013	41	2.21	121	21.37	3299.8	979920.17	-31.13	-143.68	0.03	0.34	M	-144.44	-12.84
12hc014	41	2.22	121	21.85	3320.8	979919.30	-30.04	-143.30	0.02	0.29	M	-144.12	-12.85
12hc015	41	3.27	121	19.17	3434.7	979913.15	-27.05	-144.20	0.18	0.63	M	-144.71	-11.60
12hc016	41	3.55	121	18.51	3600.1	979903.36	-21.71	-144.50	0.11	0.59	M	-145.08	-11.56
12hc017	41	3.60	121	17.84	3649.7	979900.91	-19.57	-144.05	0.03	0.58	M	-144.66	-10.66
12hc018	41	3.72	121	16.50	3731.1	979896.06	-16.95	-144.21	0.10	0.89	M	-144.52	-9.66
12hc019	41	4.63	121	16.55	3694.5	979900.49	-17.32	-143.33	0.24	1.34	M	-143.18	-8.30
12hc020	41	5.84	121	19.17	3579.9	979911.60	-18.79	-140.89	0.15	0.89	M	-141.17	-7.87
12hc021	41	6.35	121	19.53	3567.2	979913.88	-18.47	-140.13	0.16	0.99	M	-140.31	-7.16
12hc022	41	7.12	121	19.83	3534.5	979916.36	-20.21	-140.76	0.09	1.22	M	-140.71	-7.65
12hc023	41	7.03	121	19.13	3592.7	979912.85	-18.12	-140.65	0.11	1.48	M	-140.34	-6.86
12hc025	41	6.92	121	17.93	3754.0	979904.12	-11.52	-139.55	0.73	2.45	M	-138.31	-4.09
12hc026	41	8.30	121	21.12	3430.4	979927.94	-20.18	-137.18	0.10	1.41	M	-136.91	-4.33
12hc027	41	7.92	121	22.24	3345.6	979925.99	-29.54	-143.64	0.01	0.72	M	-144.04	-12.19
12hc028	41	8.25	121	21.65	3358.8	979929.01	-25.77	-140.32	0.05	1.11	M	-140.34	-8.09
12hc029	41	8.28	121	20.64	3481.5	979924.23	-19.06	-137.80	0.31	1.87	M	-137.08	-4.22
12hc030	41	8.39	121	20.10	3627.7	979916.59	-13.12	-136.85	1.13	2.99	M	-135.04	-1.88
12hc031	41	7.99	121	18.98	4104.5	979883.23	-1.06	-141.05	2.12	3.88	M	-138.44	-4.80
12hc032	41	9.44	121	21.60	3417.7	979931.82	-19.20	-135.76	0.48	2.11	M	-134.79	-2.19
12hc033	41	9.29	121	22.01	3407.0	979931.03	-20.77	-136.97	0.08	1.32	M	-136.78	-4.45
12hc034	41	9.60	121	21.22	3517.1	979924.95	-16.96	-136.92	2.18	4.02	M	-134.06	-1.22
12hc035	41	10.36	121	21.61	3469.5	979930.35	-17.17	-135.51	1.10	3.06	M	-133.60	-0.77
12hc036	41	10.80	121	22.38	3449.8	979933.52	-16.51	-134.17	0.05	1.47	M	-133.84	-1.29
12hc037	41	10.86	121	21.80	3457.1	979933.21	-16.23	-134.14	1.00	2.90	M	-132.38	0.50
12hc038	41	11.44	121	22.95	3460.3	979932.90	-17.10	-135.12	0.01	1.09	M	-135.18	-2.72
12hc039	41	11.55	121	22.40	3482.0	979933.09	-15.04	-133.79	0.19	1.65	M	-133.30	-0.51
12hc040	41	11.55	121	21.93	3509.9	979931.69	-13.81	-133.52	1.15	2.89	M	-131.80	1.22
12hc041	41	12.11	121	22.20	3540.1	979930.17	-13.33	-134.07	0.64	2.25	M	-132.98	0.08
12hc042	41	12.63	121	22.34	3649.1	979926.78	-7.25	-131.71	0.69	2.14	M	-130.76	2.35
12hc043	41	13.08	121	23.27	3520.7	979935.50	-11.28	-131.35	0.43	1.83	M	-130.69	2.15
12hc044	41	13.52	121	23.95	3540.7	979934.85	-10.70	-131.46	0.43	1.67	M	-130.95	1.75
12hc045	41	13.62	121	24.71	3540.2	979935.01	-10.74	-131.48	0.05	1.02	M	-131.63	0.72
12hc046	41	14.30	121	24.85	3579.6	979935.20	-7.86	-129.95	0.52	1.79	M	-129.33	3.23
12hc047	41	14.78	121	24.57	3880.9	979915.30	-0.16	-132.52	1.64	2.63	M	-131.13	1.70
12hc048	41	13.41	121	22.64	3880.2	979916.31	2.84	-129.50	1.43	2.59	M	-128.15	5.04
12hc049	41	12.42	121	21.72	3832.0	979914.54	-1.98	-132.68	1.63	2.99	M	-130.91	2.43
12hc051	41	7.01	121	20.28	3380.8	979923.78	-27.08	-142.38	0.33	1.40	M	-142.11	-9.28
12hc052	41	5.11	121	19.86	3314.8	979922.26	-31.96	-145.02	0.04	0.71	M	-145.43	-12.59
12hc053	41	4.84	121	20.98	3313.5	979920.39	-33.55	-146.56	0.00	0.45	M	-147.23	-15.16
12hc054	41	9.22	121	39.17	4161.6	979890.31	9.55	-132.39	0.08	0.68	M	-132.99	-9.48
12hc055	41	8.89	121	40.38	4282.0	979884.05	15.10	-130.94	0.63	1.43	M	-130.82	-8.09
12hc056	41	8.56	121	41.14	4446.7	979874.94	21.96	-129.70	1.25	2.22	M	-128.81	-6.67
12hc057	41	9.09	121	39.93	4228.9	979886.37	12.13	-132.10	0.28	1.00	M	-132.40	-9.34
12hc058	41	9.72	121	39.77	4119.1	979895.49	9.99	-130.50	0.20	0.80	M	-130.97	-7.45
12hc059	41	10.36	121	41.53	4246.2	979889.76	15.25	-129.57	0.15	0.86	M	-130.01	-6.90
12hc060	41	11.25	121	42.07	4049.8	979901.48	7.18	-130.95	0.16	0.79	M	-131.42	-7.90
12hc061	41	11.64	121	41.67	4032.4	979901.97	5.45	-132.08	0.06	0.59	M	-132.76	-8.79
12hc062	41	11.88	121	41.04	4130.6	979895.10	7.45	-133.43	0.06	0.49	M	-134.21	-9.86
12hc063	41	12.07	121	40.56	4137.6	979893.83	6.55	-134.56	0.07	0.48	M	-135.37	-10.73
12hc064	41	12.11	121	41.90	4090.6	979898.67	6.92	-132.60	0.10	0.57	M	-133.30	-9.12
12hc065	41	12.66	121	41.89	4195.7	979891.23	8.53	-134.56	0.06	0.51	M	-135.35	-10.84
12hc066	41	13.35	121	41.83	4137.3	979897.22	8.00	-133.10	0.04	0.47	M	-133.91	-8.91
12hc067	41	14.09	121	41.46	4199.0	979893.86	9.34	-133.87	0.12	0.55	M	-134.62	-9.00
12hc068	41	14.79	121	41.09	4218.6	979893.69	9.96	-133.92	0.18	0.59	M	-134.62	-8.39
12hc069	41	15.36	121	41.21	4238.0	979892.67	9.91	-134.63	0.21	0.64	M	-135.28	-8.73

12hc070	41	16.17	121	41.56	4266.3	979891.81	10.50	-135.00	0.18	0.68	M	-135.63	-8.67
12hc071	41	16.90	121	40.85	4212.1	979893.73	6.24	-137.42	0.10	0.59	M	-138.12	-10.41
12hc072	41	17.80	121	40.88	4221.8	979892.00	4.07	-139.92	0.14	0.67	M	-140.54	-12.26
12hc073	41	16.67	121	39.79	4274.6	979889.63	8.36	-137.43	0.14	0.55	M	-138.18	-10.32
12hc074	41	17.15	121	39.20	4248.8	979890.86	6.44	-138.47	0.13	0.52	M	-139.24	-10.87
12hc075	41	17.18	121	38.21	4080.3	979903.15	2.85	-136.31	0.07	0.39	M	-137.19	-8.41
12hc076	41	17.51	121	37.56	4030.3	979906.89	1.40	-136.06	0.06	0.37	M	-136.96	-7.75
12hc077	41	17.73	121	37.05	3977.9	979910.98	0.23	-135.44	0.04	0.34	M	-136.35	-6.83
12hc078	41	18.24	121	36.72	3927.7	979914.37	-1.86	-135.82	0.05	0.37	M	-136.69	-6.74
12hc079	41	10.79	121	42.46	4149.2	979895.53	11.26	-130.26	0.11	0.87	M	-130.67	-7.63
12hc080	41	11.24	121	43.61	4305.9	979888.97	18.76	-128.10	0.20	0.93	M	-128.48	-5.63
12hc082	41	10.41	121	43.89	4417.0	979884.37	25.84	-124.81	0.56	1.51	M	-124.63	-2.55
12hc083	41	9.90	121	44.10	4460.5	979882.07	28.39	-123.74	1.75	2.76	M	-122.32	-0.69
12hc084	41	11.58	121	44.44	4323.4	979888.40	19.32	-128.13	0.14	0.89	M	-128.55	-5.83
12hc085	41	12.07	121	45.10	4400.6	979884.38	21.83	-128.26	0.44	1.16	M	-128.42	-5.61
12hc086	41	12.86	121	47.26	4412.4	979882.12	19.49	-131.00	0.19	0.95	M	-131.37	-8.87
12hc087	41	12.28	121	47.37	4261.1	979892.96	16.98	-128.35	0.22	1.16	M	-128.50	-6.43
12hc088	41	11.80	121	47.33	4311.6	979889.78	19.26	-127.79	0.42	1.46	M	-127.64	-5.94
12hc089	41	11.48	121	48.12	4349.5	979888.04	21.56	-126.78	1.14	2.38	M	-125.71	-4.59
12hc090	41	10.73	121	48.47	4768.5	979864.01	38.04	-124.60	0.78	2.34	M	-123.63	-3.35
12hc091	41	10.32	121	47.75	5147.5	979839.70	49.96	-125.60	0.76	3.26	M	-123.76	-3.59
12hc092	41	9.88	121	47.88	4730.0	979867.71	39.39	-121.93	1.06	2.71	M	-120.59	-0.69
12hc093	41	9.53	121	48.80	4468.6	979884.23	31.86	-120.54	1.66	3.41	M	-118.47	0.78
12hc094	41	13.74	121	47.71	4258.6	979892.41	14.01	-131.23	0.31	0.99	M	-131.54	-8.48
12hc095	41	15.60	121	50.37	3976.3	979905.13	-2.58	-138.20	0.01	0.65	M	-138.80	-15.18
12hc096	41	15.18	121	49.37	3954.0	979907.43	-1.75	-136.61	0.02	0.69	M	-137.16	-13.52
12hc097	41	15.59	121	49.00	3989.2	979904.42	-2.07	-138.12	0.01	0.68	M	-138.70	-14.63
12hc098	41	15.95	121	48.36	4045.7	979901.89	0.18	-137.81	0.04	0.74	M	-138.33	-13.74
12hc099	41	16.36	121	47.57	4182.3	979894.42	4.93	-137.71	0.36	1.01	M	-137.99	-12.90
12hc100	41	16.67	121	46.97	4306.1	979887.05	8.74	-138.13	0.90	1.53	M	-137.90	-12.43
12hc101	41	17.20	121	47.10	4491.3	979875.16	13.46	-139.72	0.29	0.99	M	-140.06	-14.27
12hc102	41	17.98	121	46.72	4605.2	979869.44	17.28	-139.78	0.07	0.80	M	-140.34	-13.90
12hc103	41	19.20	121	46.68	4643.5	979865.77	15.39	-142.98	0.04	0.75	M	-143.59	-16.31
12hc104	41	16.62	121	48.53	3996.9	979902.68	-4.62	-140.94	0.11	0.92	M	-141.27	-16.24
12hc105	41	17.21	121	48.89	4053.1	979900.00	-2.90	-141.14	0.24	1.06	M	-141.34	-16.00
12hc106	41	17.50	121	49.43	4055.6	979897.53	-5.57	-143.89	0.23	1.10	M	-144.06	-18.67
12hc107	41	3.77	121	38.02	3073.8	979942.80	-32.08	-136.91	0.06	0.93	M	-137.05	-15.48
12hc108	41	4.54	121	38.02	3110.9	979943.06	-29.48	-135.58	0.18	1.20	M	-135.45	-13.56
12hc109	41	4.52	121	39.04	3339.2	979933.63	-17.42	-131.31	0.19	0.94	M	-131.48	-10.20
12hc110	41	7.54	121	38.21	3964.2	979897.06	0.25	-134.95	0.14	0.74	M	-135.46	-12.40
12hc111	41	7.13	121	37.39	3849.3	979900.71	-6.28	-137.57	0.07	0.57	M	-138.22	-14.97
12hc112	41	7.12	121	24.61	3307.3	979916.94	-40.99	-153.79	0.04	0.32	M	-154.58	-24.34
12hc113	41	7.40	121	24.59	3308.6	979917.11	-41.12	-153.96	0.06	0.36	M	-154.71	-24.38
12hc114	41	7.72	121	24.50	3310.9	979918.00	-40.49	-153.41	0.06	0.39	M	-154.13	-23.65
12hc115	41	6.85	121	24.71	3306.4	979916.49	-41.12	-153.89	0.03	0.29	M	-154.71	-24.58
12hc116	41	6.58	121	24.93	3308.3	979915.35	-41.68	-154.51	0.03	0.27	M	-155.36	-25.44
12hc117	41	6.49	121	25.40	3308.1	979913.65	-43.26	-156.09	0.05	0.26	M	-156.94	-27.31
12hc118	41	6.72	121	25.66	3308.0	979914.77	-42.50	-155.32	0.09	0.30	M	-156.14	-26.61
12hc119	41	6.98	121	25.92	3349.6	979914.21	-39.54	-153.78	0.04	0.23	M	-154.67	-25.25
12hc120	41	7.22	121	26.23	3372.9	979914.95	-36.96	-152.00	0.01	0.19	M	-152.93	-23.60
12hc121	41	7.49	121	26.38	3388.8	979915.36	-35.46	-151.04	0.02	0.20	M	-151.97	-22.65
12hc122	41	7.85	121	26.40	3418.9	979913.75	-34.78	-151.39	0.05	0.24	M	-152.29	-22.86
12hc123	41	8.11	121	26.54	3459.7	979912.21	-32.87	-150.87	0.05	0.23	M	-151.79	-22.36
12hc124	41	6.77	121	26.13	3313.7	979914.61	-42.20	-155.21	0.04	0.23	M	-156.09	-26.81
12hc125	41	6.73	121	26.64	3315.5	979914.72	-41.86	-154.94	0.01	0.19	M	-155.86	-26.87
12hc126	41	6.82	121	27.23	3314.4	979915.57	-41.25	-154.29	0.03	0.20	M	-155.20	-26.51
12hc127	41	6.59	121	27.67	3305.2	979915.93	-41.41	-154.13	0.00	0.17	M	-155.08	-26.73
12hc128	41	6.74	121	28.27	3313.0	979917.06	-39.77	-152.76	0.01	0.18	M	-153.70	-25.66
12hc129	41	6.60	121	30.15	3315.7	979920.12	-36.24	-149.33	0.00	0.18	M	-150.26	-23.27
12hc130	41	5.23	121	30.79	3317.1	979921.68	-32.51	-145.64	0.00	0.26	M	-146.50	-20.33
12hc131	41	5.67	121	30.79	3315.6	979921.58	-33.41	-146.49	0.00	0.24	M	-147.36	-21.04
12hc132	41	6.20	121	31.09	3315.4	979921.11	-34.69	-147.76	0.00	0.23	M	-148.64	-22.31
12hc133	41	6.75	121	31.14	3327.2	979919.71	-35.80	-149.28	0.00	0.20	M	-150.19	-23.71
12hc134	41	7.30	121	31.27	3336.4	979920.12	-35.34	-149.14	0.00	0.19	M	-150.06	-23.46
12hc135	41	7.25	121	32.36	3344.5	979923.51	-31.12	-145.19	0.00	0.24	M	-146.07	-20.04
12hc136	41	7.43	121	33.32	3361.0	979924.08	-29.27	-143.90	0.01	0.29	M	-144.73	-19.14
12hc137	41	7.85	121	34.04	3347.7	979927.80	-27.42	-141.60	0.02	0.38	M	-142.34	-16.91
12hc138	41	7.89	121	34.72	3339.7	979929.01	-27.03	-140.93	0.18	0.66	M	-141.39	-16.28
12hc139	41	8.57	121	34.46	3400.9	979925.77	-25.53	-141.52	0.12	0.50	M	-142.15	-16.59
12hc140	41	9.31	121	34.33	3431.6	979925.69	-23.83	-140.87	0.09	0.44	M	-141.57	-15.62

12hc141	41	9.74	121	34.62	3595.8	979917.01	-17.71	-140.35	0.15	0.43	M	-141.10	-15.13
12hc142	41	10.49	121	35.19	3825.4	979905.52	-8.74	-139.21	0.29	0.59	M	-139.85	-13.79
12hc143	41	7.05	121	34.42	3330.1	979927.23	-28.45	-142.03	0.06	0.53	M	-142.62	-17.77
12hc144	41	7.13	121	35.26	3391.9	979925.05	-24.94	-140.63	0.50	0.99	M	-140.77	-16.30
12hc145	41	7.79	121	35.53	3660.7	979910.11	-15.60	-140.45	0.26	0.60	M	-141.05	-16.44
12hc146	41	1.15	121	37.23	2811.0	979958.30	-37.37	-133.25	0.99	1.77	M	-132.46	-11.31
12hc147	41	1.05	121	28.16	3324.5	979920.82	-26.43	-139.81	0.49	0.89	M	-140.04	-13.13
12hc148	41	1.69	121	28.76	3335.2	979921.52	-25.68	-139.43	1.44	1.77	M	-138.78	-12.17
12hc149	41	2.13	121	30.19	3330.1	979925.34	-22.99	-136.57	0.95	1.37	M	-136.32	-10.55
12hc150	41	2.10	121	29.53	3316.0	979924.41	-25.21	-138.30	1.27	1.62	M	-137.79	-11.61
12hc151	41	2.81	121	29.61	3311.9	979920.21	-30.85	-143.81	0.01	0.33	M	-144.59	-18.31
12hc152	41	3.22	121	29.62	3312.3	979919.24	-32.40	-145.37	0.00	0.26	M	-146.22	-19.87
12hc153	41	4.21	121	30.49	3316.3	979919.64	-33.10	-146.20	0.01	0.27	M	-147.05	-21.01
12hc154	41	7.99	121	31.64	3352.3	979922.09	-32.91	-147.24	0.00	0.19	M	-148.17	-21.44
12hc155	41	8.35	121	31.44	3352.2	979923.50	-32.05	-146.38	0.01	0.20	M	-147.30	-20.31
12hc156	41	8.77	121	31.32	3350.6	979924.93	-31.40	-145.67	0.04	0.24	M	-146.56	-19.37
12hc157	41	9.30	121	31.07	3378.1	979925.09	-29.44	-144.66	0.04	0.24	M	-145.55	-18.00
12hc158	41	9.69	121	31.02	3411.6	979924.83	-27.14	-143.49	0.03	0.22	M	-144.41	-16.70
12hc159	41	10.61	121	29.69	3621.2	979914.46	-19.18	-142.68	0.33	0.49	M	-143.38	-14.66
12hc160	41	9.82	121	29.70	3525.3	979914.89	-26.58	-146.82	0.49	0.64	M	-147.34	-18.93
12hc161	41	10.68	121	30.25	3537.9	979921.88	-19.69	-140.36	0.07	0.22	M	-141.30	-12.78
12hc162	41	10.93	121	29.33	3613.1	979917.26	-17.62	-140.85	0.07	0.23	M	-141.79	-12.75
12hc163	41	11.19	121	30.01	3591.5	979920.51	-16.79	-139.28	0.02	0.18	M	-140.27	-11.46
12hc164	41	11.55	121	29.14	3608.0	979920.61	-15.67	-138.73	0.02	0.19	M	-139.72	-10.32
12hc165	41	11.86	121	29.83	3605.8	979922.52	-14.43	-137.41	0.01	0.18	M	-138.41	-9.18
12hc166	41	12.38	121	29.66	3614.5	979923.19	-13.72	-137.00	0.01	0.20	M	-137.98	-8.43
12hc167	41	12.99	121	29.93	3606.0	979927.21	-11.41	-134.40	0.03	0.25	M	-135.33	-5.61
12hc168	41	13.39	121	29.42	3613.5	979928.47	-10.05	-133.29	0.02	0.29	M	-134.18	-4.08
12hc169	41	13.85	121	28.97	3607.2	979931.21	-8.58	-131.61	0.13	0.49	M	-132.30	-1.79
12hc170	41	14.11	121	28.27	3596.1	979933.03	-8.20	-130.85	0.12	0.62	M	-131.41	-0.45
12hc171	41	14.38	121	27.55	3595.9	979933.88	-7.77	-130.41	0.22	0.92	M	-130.66	0.74
12hc172	41	14.73	121	26.26	3712.3	979926.87	-4.36	-130.97	0.61	1.55	M	-130.62	1.46
12hc173	41	14.34	121	26.77	3617.5	979932.62	-6.94	-130.32	0.18	0.96	M	-130.54	1.17
12hc174	41	13.89	121	26.24	3559.1	979934.04	-10.34	-131.72	0.02	0.72	M	-132.17	-0.41
12hc175	41	14.77	121	27.57	3736.2	979926.91	-2.13	-129.56	0.38	1.13	M	-129.64	1.89
12hc176	41	15.34	121	28.43	3838.0	979921.42	1.09	-129.81	0.24	1.10	M	-129.93	1.47
12hc177	41	15.70	121	29.06	3773.8	979925.86	-1.04	-129.75	0.73	1.74	M	-129.22	2.11
12hc178	41	15.95	121	29.87	3793.3	979925.66	0.22	-129.15	1.30	2.17	M	-128.20	2.94
12hc179	41	16.19	121	31.15	3781.5	979928.30	1.39	-127.58	0.45	1.19	M	-127.61	3.13
12hc180	41	15.62	121	30.69	3728.6	979930.56	-0.47	-127.64	0.08	0.75	M	-128.09	2.56
12hc181	41	15.14	121	30.38	3693.9	979930.70	-2.87	-128.86	0.03	0.56	M	-129.50	1.05
12hc182	41	14.50	121	30.17	3690.6	979929.22	-3.71	-129.58	0.01	0.37	M	-130.41	-0.09
12hc183	41	13.96	121	29.97	3656.7	979928.41	-6.90	-131.61	0.02	0.31	M	-132.49	-2.36
12hc184	41	13.32	121	30.45	3657.8	979926.64	-7.61	-132.36	0.02	0.24	M	-133.31	-3.71
12hc185	41	13.55	121	30.99	3680.8	979926.61	-5.82	-131.36	0.02	0.24	M	-132.31	-2.83
12hc186	41	13.47	121	31.69	3708.2	979925.23	-4.50	-130.97	0.00	0.20	M	-131.97	-2.84
12hc187	41	13.47	121	32.35	3685.8	979927.03	-4.81	-130.52	0.01	0.20	M	-131.51	-2.64
12hc188	41	13.07	121	32.96	3669.8	979926.28	-6.46	-131.63	0.02	0.21	M	-132.61	-4.16
12hc189	41	12.53	121	33.34	3664.4	979923.80	-8.64	-133.62	0.03	0.21	M	-134.60	-6.61
12hc190	41	11.80	121	33.97	3658.3	979921.30	-10.63	-135.40	0.01	0.21	M	-136.38	-9.04
12hc191	41	11.68	121	34.80	3658.7	979920.60	-11.11	-135.89	0.02	0.25	M	-136.83	-9.90
12hc192	41	12.08	121	33.59	3638.6	979923.34	-10.86	-134.96	0.01	0.20	M	-135.94	-8.28
12hc193	41	10.25	121	29.35	3776.2	979903.61	-14.92	-143.71	0.28	0.55	M	-144.37	-15.69
12hc194	41	10.18	121	30.49	3426.5	979925.80	-25.50	-142.36	0.13	0.32	M	-143.18	-14.99
12hc195	41	7.31	121	31.69	3345.0	979921.35	-33.32	-147.41	0.00	0.20	M	-148.32	-21.94
12hc196	41	6.67	121	32.83	3327.1	979926.46	-28.94	-142.41	0.00	0.34	M	-143.19	-17.62
12hc197	41	5.67	121	31.37	3317.4	979924.19	-30.63	-143.77	0.00	0.30	M	-144.58	-18.57
12hc198	41	5.68	121	31.97	3323.7	979925.42	-28.82	-142.18	0.01	0.43	M	-142.86	-17.20
12hc199	41	5.58	121	33.79	3458.4	979921.77	-19.66	-137.61	0.96	1.56	M	-137.20	-12.60
12hc200	41	6.54	121	33.68	3333.9	979927.12	-27.44	-141.15	0.02	0.49	M	-141.78	-16.73
12hc201	41	6.44	121	34.09	3328.4	979926.46	-28.47	-141.99	0.09	0.64	M	-142.47	-17.67
12hc202	41	5.67	121	32.81	3322.2	979928.13	-26.23	-139.54	0.20	0.82	M	-139.83	-14.62
12hc203	41	2.58	121	33.32	3624.0	979912.02	-9.36	-132.96	0.09	0.67	M	-133.47	-9.58
12hc204	41	1.96	121	33.29	3515.5	979913.55	-17.10	-137.00	0.31	0.79	M	-137.37	-13.62
12hc205	40	56.87	121	38.68	3104.8	979934.51	-27.15	-133.05	0.21	0.75	M	-133.36	-14.25
12hc206	40	57.35	121	38.25	3110.3	979935.32	-26.54	-132.62	0.01	0.50	M	-133.19	-13.67
12hc207	40	58.32	121	37.87	3035.0	979936.21	-34.18	-137.69	0.01	0.48	M	-138.26	-18.29
12hc208	40	58.44	121	39.00	3078.0	979938.77	-27.76	-132.73	0.03	0.63	M	-133.16	-14.00
12hc209	40	59.20	121	38.36	3032.7	979942.32	-29.60	-133.03	0.04	0.57	M	-133.51	-13.68
12hc210	40	59.84	121	37.73	2995.1	979941.93	-34.48	-136.63	0.02	0.52	M	-137.15	-16.70

12hc211	41	0.41	121	37.99	2992.4	979946.93	-30.58	-132.64	0.17	0.70	M	-132.98	-12.54
12hc212	41	0.27	121	37.14	3053.7	979943.41	-28.13	-132.28	0.06	0.47	M	-132.86	-11.91
12hc213	41	0.24	121	36.35	3002.0	979941.57	-34.79	-137.18	0.10	0.53	M	-137.68	-16.22
12hc214	40	57.72	121	36.85	3094.9	979933.65	-30.21	-135.77	0.03	0.42	M	-136.41	-15.81
12hc215	40	58.16	121	36.15	3099.3	979933.18	-30.93	-136.63	0.03	0.39	M	-137.31	-16.13
12hc216	40	59.13	121	35.83	3048.3	979936.62	-33.73	-137.69	0.11	0.49	M	-138.25	-16.67
12hc217	40	59.86	121	34.98	2917.2	979944.19	-39.57	-139.07	0.41	0.95	M	-139.13	-16.80
12hc218	40	57.06	121	36.63	3130.2	979930.86	-28.70	-135.46	0.01	0.41	M	-136.12	-15.45
12hc219	40	57.55	121	33.07	3014.4	979931.84	-39.34	-142.15	1.01	1.50	M	-141.68	-18.31
12hc220	40	58.92	121	34.15	2819.4	979950.58	-40.97	-137.13	0.58	1.29	M	-136.83	-14.05
13hc001	41	4.21	121	15.12	4367.4	979860.53	6.60	-142.36	0.60	1.55	M	-142.13	-6.45
13hc002	41	5.55	121	11.35	4216.6	979866.51	-3.60	-147.41	0.42	0.99	M	-147.71	-10.09
13hc003	41	6.37	121	13.06	4240.8	979866.42	-2.64	-147.27	0.91	1.59	M	-146.98	-9.81
13hc004	41	6.89	121	13.09	4205.8	979870.93	-2.19	-145.64	0.40	1.17	M	-145.76	-8.60
13hc005	41	7.70	121	13.10	4236.0	979873.05	1.55	-142.92	0.28	1.14	M	-143.07	-5.86
13hc006	41	7.49	121	11.43	4122.3	979865.70	-16.17	-156.77	0.00	0.41	M	-157.64	-19.34
13hc007	41	12.77	121	9.77	4159.3	979866.81	-19.47	-161.33	0.02	0.16	M	-162.45	-22.59
13hc008	41	13.03	121	10.30	4180.4	979865.10	-19.59	-162.16	0.03	0.18	M	-163.28	-23.71
13hc009	41	13.17	121	11.15	4155.5	979866.75	-20.49	-162.21	0.04	0.21	M	-163.28	-24.13
13hc010	41	13.16	121	11.81	4206.8	979864.33	-18.07	-161.55	0.03	0.23	M	-162.61	-23.81
13hc011	41	13.16	121	12.37	4194.2	979870.53	-13.05	-156.10	0.02	0.27	M	-157.12	-18.65
13hc012	41	13.16	121	12.93	4207.7	979875.62	-6.69	-150.20	0.04	0.36	M	-151.14	-13.01
13hc013	41	13.13	121	13.49	4237.1	979875.15	-4.36	-148.87	0.27	0.65	M	-149.51	-11.71
13hc014	41	12.83	121	13.92	4254.5	979875.89	-1.53	-146.64	0.37	0.81	M	-147.13	-9.61
13hc015	41	12.62	121	12.69	4203.1	979871.39	-10.55	-153.90	0.03	0.33	M	-154.86	-16.66
13hc016	41	11.45	121	12.04	4199.0	979870.11	-10.47	-153.68	0.03	0.35	M	-154.62	-16.25
13hc017	41	11.97	121	12.31	4201.7	979870.16	-10.94	-154.24	0.02	0.32	M	-155.21	-16.92
13hc018	41	13.81	121	13.02	4224.6	979874.52	-7.18	-151.26	0.06	0.37	M	-152.19	-13.98
13hc019	41	14.19	121	13.32	4242.7	979872.52	-8.04	-152.75	0.14	0.46	M	-153.58	-15.42
13hc020	41	14.86	121	13.29	4232.9	979871.13	-11.36	-155.73	0.05	0.32	M	-156.70	-18.40
13hc021	41	15.23	121	13.56	4230.7	979871.73	-11.52	-155.81	0.05	0.31	M	-156.80	-18.56
13hc022	41	15.76	121	13.48	4200.5	979873.85	-13.03	-156.29	0.02	0.22	M	-157.36	-18.97
13hc023	41	16.61	121	13.58	4234.0	979870.15	-14.85	-159.26	0.02	0.15	M	-160.40	-21.86
13hc024	41	14.46	121	12.56	4204.3	979870.18	-14.40	-157.79	0.01	0.22	M	-158.86	-20.24
13hc025	41	14.03	121	12.37	4209.2	979869.38	-14.09	-157.65	0.00	0.22	M	-158.73	-20.11
13hc026	41	12.56	121	9.41	4144.4	979867.45	-19.92	-161.27	0.01	0.15	M	-162.40	-22.33
13hc027	41	14.69	121	8.16	4220.0	979877.62	-5.83	-149.75	0.03	0.18	M	-150.86	-9.85
13hc028	41	15.37	121	8.34	4198.5	979880.42	-6.06	-149.26	0.02	0.19	M	-150.36	-9.33
13hc029	41	20.02	121	8.40	4277.7	979890.85	4.86	-141.04	0.10	0.43	M	-141.91	-0.18
13hc030	41	20.78	121	8.72	4291.9	979889.10	3.31	-143.07	0.18	0.50	M	-143.88	-2.14
13hc031	41	21.35	121	8.83	4296.8	979891.65	5.46	-141.08	0.28	0.65	M	-141.74	0.05
13hc032	41	20.78	121	9.46	4412.1	979873.81	-0.69	-151.17	0.14	0.32	M	-152.17	-10.79
13hc033	41	21.23	121	10.12	4440.4	979871.28	-1.23	-152.67	0.05	0.22	M	-153.78	-12.66
13hc034	41	21.80	121	10.98	4479.4	979867.47	-2.22	-155.00	0.09	0.25	M	-156.09	-15.25
13hc035	41	21.79	121	10.12	4473.4	979868.99	-1.25	-153.82	0.34	0.53	M	-154.63	-13.42
13hc036	41	21.67	121	9.39	4433.4	979876.25	2.43	-148.78	0.25	0.48	M	-149.63	-8.06
13hc037	41	21.93	121	12.01	4478.9	979865.59	-4.35	-157.10	0.01	0.14	M	-158.30	-17.84
13hc038	41	21.86	121	12.68	4429.3	979867.52	-6.97	-158.04	0.02	0.13	M	-159.24	-19.08
13hc039	41	21.81	121	13.25	4417.3	979866.92	-8.63	-159.28	0.01	0.11	M	-160.50	-20.63
13hc040	41	21.90	121	13.91	4366.0	979871.57	-8.93	-157.84	0.02	0.10	M	-159.05	-19.42
13hc041	41	21.77	121	14.82	4352.5	979872.74	-8.84	-157.29	0.02	0.10	M	-158.50	-19.23
13hc042	41	21.79	121	15.51	4291.3	979878.53	-8.83	-155.19	0.03	0.11	M	-156.38	-17.38
13hc043	41	21.78	121	16.24	4261.6	979880.26	-9.88	-155.22	0.01	0.10	M	-156.43	-17.76
13hc044	41	0.92	121	27.08	3301.0	979919.97	-29.29	-141.88	0.02	0.34	M	-142.65	-14.97
13hc045	41	0.40	121	26.69	3289.3	979918.87	-30.72	-142.90	0.11	0.42	M	-143.60	-15.70
13hc046	40	59.72	121	25.87	3352.6	979913.39	-29.23	-143.58	0.09	0.36	M	-144.34	-15.91
13hc047	40	58.72	121	26.68	3278.2	979920.50	-27.62	-139.43	0.17	0.61	M	-139.93	-12.05
13hc048	40	58.30	121	25.91	3356.9	979914.23	-25.87	-140.36	0.14	0.53	M	-140.95	-12.53
13hc049	40	54.63	121	26.92	4082.7	979855.40	-10.99	-150.23	1.32	2.17	M	-149.33	-21.43
13hc050	40	53.82	121	26.44	4030.2	979857.71	-12.41	-149.86	1.05	1.77	M	-149.35	-20.90
13hc051	40	53.34	121	25.98	3981.1	979860.65	-13.37	-149.15	0.50	1.18	M	-149.21	-20.31
13hc052	40	52.65	121	25.68	4088.9	979852.71	-10.14	-149.60	0.60	1.41	M	-149.46	-20.19
13hc053	40	51.69	121	25.21	4182.8	979846.81	-5.78	-148.44	0.27	1.22	M	-148.51	-18.66
13hc054	40	49.03	121	27.30	3331.4	979892.70	-35.96	-149.58	0.23	2.16	M	-148.54	-19.52
13hc055	40	48.17	121	26.82	3343.5	979889.73	-36.51	-150.54	0.40	2.73	M	-148.94	-19.26
13hc056	40	47.01	121	26.68	3517.6	979878.85	-29.29	-149.27	0.18	2.24	M	-148.19	-18.14
13hc057	40	50.29	121	26.95	3570.8	979883.94	-24.09	-145.88	0.11	1.44	M	-145.61	-16.67
13hc058	40	48.48	121	23.79	4899.3	979792.85	12.39	-154.70	0.07	1.79	M	-154.31	-22.64
13hc059	40	47.87	121	23.68	4944.5	979788.78	13.48	-155.16	0.11	1.88	M	-154.67	-22.73
13hc060	40	47.29	121	23.74	5016.7	979782.49	14.84	-156.26	0.32	2.33	M	-155.34	-23.33

13hc061	40	46.41	121	23.63	4983.2	979781.88	12.40	-157.56	0.49	2.41	M	-156.56	-24.23
13hc062	40	45.80	121	23.29	4920.3	979784.75	10.26	-157.55	0.28	1.94	M	-157.01	-24.19
13hc063	40	46.84	121	23.09	4985.1	979782.67	12.72	-157.30	0.02	1.69	M	-157.02	-24.31
13hc064	40	47.40	121	22.84	4997.5	979783.35	13.73	-156.71	0.03	1.57	M	-156.55	-23.82
13hc065	40	48.69	121	21.58	4943.4	979790.20	13.57	-155.03	0.07	1.32	M	-155.10	-21.69
13hc066	40	49.00	121	20.83	4897.3	979796.76	15.34	-151.69	0.12	1.30	M	-151.78	-17.82
13hc067	40	49.50	121	20.84	4847.0	979801.83	14.94	-150.38	0.32	1.50	M	-150.26	-16.48
13hc068	40	49.63	121	19.94	5166.5	979780.17	23.11	-153.10	0.18	1.65	M	-152.87	-18.49
13hc069	40	49.55	121	19.15	5225.5	979776.34	24.95	-153.28	0.08	1.50	M	-153.21	-18.20
13hc070	40	49.52	121	18.37	5242.8	979774.08	24.36	-154.46	0.10	1.42	M	-154.47	-18.85
13hc071	40	49.22	121	17.71	5272.0	979770.11	23.58	-156.23	0.08	1.34	M	-156.32	-20.12
13hc072	40	49.33	121	16.85	5266.8	979772.35	25.17	-154.46	0.02	1.25	M	-154.65	-17.82
13hc073	40	49.32	121	16.08	5204.4	979773.80	20.77	-156.74	0.07	1.24	M	-156.92	-19.50
13hc074	40	49.62	121	15.35	5089.6	979780.77	16.50	-157.09	0.07	1.22	M	-157.29	-19.36
13hc075	40	50.04	121	14.51	5046.4	979782.80	13.84	-158.27	0.06	1.22	M	-158.46	-20.01
13hc076	40	50.54	121	13.81	5121.9	979777.68	15.07	-159.62	0.19	1.34	M	-159.69	-20.88
13hc077	40	51.32	121	13.78	5159.2	979771.92	11.65	-164.31	0.16	1.36	M	-164.37	-25.78
13hc078	40	51.81	121	13.38	5033.0	979779.02	6.16	-165.49	0.11	1.22	M	-165.69	-26.92
13hc079	40	52.13	121	12.81	5074.3	979777.99	8.54	-164.53	0.06	1.25	M	-164.69	-25.63
13hc080	40	51.64	121	12.80	5120.8	979774.98	10.63	-164.02	0.10	1.28	M	-164.16	-24.95
13hc081	40	51.10	121	12.54	5158.5	979771.98	11.98	-163.96	0.20	1.40	M	-163.99	-24.43
13hc082	40	52.34	121	11.86	4994.1	979785.78	8.47	-161.85	0.26	1.43	M	-161.83	-22.12
13hc083	40	53.13	121	11.64	4636.0	979811.26	-0.88	-159.00	0.65	1.63	M	-158.73	-18.95
13hc084	40	53.32	121	10.73	4209.8	979839.52	-12.97	-156.55	0.69	2.09	M	-155.75	-15.20
13hc085	40	54.13	121	11.29	4185.7	979841.96	-14.00	-156.76	0.29	1.41	M	-156.64	-16.72
13hc086	40	54.44	121	12.04	4205.8	979840.46	-14.07	-157.52	0.34	1.33	M	-157.48	-18.23
13hc087	40	54.95	121	13.16	4148.6	979846.71	-13.96	-155.46	0.43	1.33	M	-155.41	-17.09
13hc088	40	56.04	121	14.55	3873.0	979867.70	-20.51	-152.60	0.73	1.56	M	-152.27	-15.17
13hc089	40	57.25	121	15.24	3660.3	979886.07	-23.94	-148.78	0.24	1.03	M	-148.93	-12.54
13hc090	40	57.62	121	15.94	3733.7	979884.65	-19.01	-146.35	0.15	0.77	M	-146.79	-11.01
13hc091	40	59.29	121	17.01	3454.4	979907.32	-25.09	-142.91	0.11	0.76	M	-143.29	-8.47
13hc092	41	0.03	121	17.25	3328.8	979917.33	-27.99	-141.52	0.05	0.82	M	-141.82	-7.23
13hc093	40	52.88	121	43.61	3391.7	979911.48	-17.26	-132.93	0.28	1.75	M	-132.32	-18.27
13hc094	40	53.33	121	44.11	3560.0	979901.26	-12.33	-133.74	0.28	1.58	M	-133.33	-19.68
13hc095	40	53.93	121	44.23	3665.3	979895.06	-9.52	-134.53	0.30	1.38	M	-134.34	-20.66
13hc096	40	54.55	121	44.11	3709.6	979892.78	-8.56	-135.08	0.20	1.18	M	-135.11	-21.15
13hc097	40	54.44	121	45.45	3616.8	979904.91	-4.99	-128.35	0.88	2.24	M	-127.29	-14.58
13hc098	40	54.89	121	44.80	3622.5	979902.37	-7.67	-131.22	0.29	1.31	M	-131.09	-17.63
13hc099	40	55.32	121	44.95	3702.0	979899.16	-4.05	-130.31	0.30	1.33	M	-130.17	-16.74
13hc100	40	55.82	121	44.26	3588.9	979904.28	-10.30	-132.71	0.33	1.17	M	-132.71	-18.46
13hc101	40	55.80	121	45.43	3575.6	979908.88	-6.93	-128.88	0.71	1.79	M	-128.25	-15.04
13hc102	40	56.48	121	44.80	3467.7	979915.28	-11.68	-129.95	0.31	1.23	M	-129.87	-15.84
13hc103	40	57.26	121	44.72	3332.1	979923.28	-17.60	-131.24	0.35	1.22	M	-131.14	-16.74
13hc104	40	57.89	121	44.71	3507.8	979912.74	-12.56	-132.20	0.44	1.30	M	-132.06	-17.44
13hc105	40	58.23	121	43.93	3271.3	979928.82	-19.22	-130.79	0.45	1.20	M	-130.69	-15.29
13hc106	40	58.47	121	45.00	3594.5	979908.86	-9.15	-131.75	0.41	1.57	M	-131.36	-16.75
13hc107	40	58.01	121	45.67	3859.0	979890.70	-1.76	-133.38	1.27	2.84	M	-131.77	-17.93
13hc108	40	57.64	121	45.96	3872.3	979891.50	0.84	-131.23	1.26	2.84	M	-129.62	-16.18
13hc109	40	56.98	121	46.23	3897.5	979887.57	0.26	-132.66	0.50	2.07	M	-131.83	-18.89
13hc110	40	56.41	121	45.67	3809.1	979892.65	-2.12	-132.03	0.47	1.63	M	-131.62	-18.42
13hc111	40	56.60	121	46.75	4211.4	979867.39	10.16	-133.48	0.99	3.28	M	-131.49	-19.19
13hc112	40	53.51	121	45.03	3811.7	979889.78	-0.41	-130.42	1.23	2.61	M	-129.03	-16.23
13hc113	40	53.78	121	45.68	4037.3	979877.85	8.46	-129.24	0.66	2.18	M	-128.32	-16.11
13hc114	40	51.86	121	53.73	3269.7	979929.74	-8.94	-120.46	0.31	2.21	M	-119.36	-16.14
13hc115	40	53.95	121	54.02	2704.9	979972.14	-22.76	-115.02	0.86	2.74	M	-113.24	-8.86
13hc116	40	57.36	121	56.58	2900.7	979971.03	-10.55	-109.48	0.10	0.96	M	-109.54	-4.84
13hc117	41	0.22	121	54.71	2167.7	980018.78	-35.99	-109.92	0.47	2.15	M	-108.58	0.09
13hc118	41	0.56	121	53.76	1900.8	980032.54	-47.83	-112.66	0.24	3.03	M	-110.36	-0.69
13hc119	40	59.93	121	53.80	2047.5	980024.19	-41.45	-111.28	0.56	2.92	M	-109.13	-0.02
13hc120	41	0.16	121	53.36	1968.7	980028.09	-45.30	-112.45	0.27	3.11	M	-110.09	-0.46
13hc121	40	59.73	121	53.04	2084.3	980021.40	-40.48	-111.57	0.28	3.03	M	-109.32	0.19
13hc122	40	59.04	121	51.16	2278.9	980002.12	-40.43	-118.16	2.33	6.68	M	-112.32	-1.91
13hc123	40	59.52	121	52.21	2092.4	980019.10	-41.71	-113.07	0.52	4.15	M	-109.70	0.30
13hc124	40	59.41	121	51.33	2064.6	980015.46	-47.79	-118.21	3.32	8.55	M	-110.43	0.15
13hc125	40	59.10	121	50.85	2098.7	980007.75	-51.84	-123.41	7.46	12.99	M	-111.21	-0.48
13hc126	40	58.72	121	50.73	2238.5	979997.99	-47.88	-124.23	6.54	11.52	M	-113.54	-2.99
13hc127	40	58.23	121	50.45	2278.6	979999.01	-42.36	-120.08	4.30	9.48	M	-111.44	-1.00
13hc128	40	58.10	121	49.69	2413.2	979990.06	-38.46	-120.77	4.95	9.82	M	-111.83	-0.89
13hc129	40	57.95	121	49.11	2348.4	979992.34	-42.05	-122.15	5.47	10.83	M	-112.17	-0.84
13hc130	40	57.93	121	48.54	2484.5	979984.53	-37.03	-121.77	4.83	9.54	M	-113.13	-1.36

13hc131	40	57.75	121	47.96	2705.8	979970.53	-29.96	-122.24	2.78	6.45	M	-116.75	-4.62
13hc132	41	6.52	121	38.35	3799.2	979906.56	-4.23	-133.81	0.39	1.04	M	-133.99	-11.48
13hc133	41	16.52	121	52.54	4053.1	979898.80	-3.07	-141.31	0.23	0.93	M	-141.64	-18.07
13hc134	41	17.09	121	52.40	4132.8	979892.74	-2.49	-143.44	0.15	0.91	M	-143.81	-19.74
13hc135	41	17.65	121	52.57	4227.6	979884.41	-2.75	-146.93	0.13	1.02	M	-147.21	-22.79
13hc136	41	18.29	121	52.13	4230.1	979882.96	-4.92	-149.19	0.19	1.23	M	-149.26	-24.21
13hc137	41	18.60	121	51.48	4209.9	979883.45	-6.79	-150.37	0.18	1.36	M	-150.31	-24.79
13hc138	41	18.64	121	52.63	3981.5	979895.39	-16.38	-152.17	0.50	1.97	M	-151.46	-26.24
13hc139	41	18.60	121	53.33	3915.1	979901.80	-16.15	-149.68	0.19	1.65	M	-149.27	-24.25
13hc140	41	18.70	121	54.28	3872.7	979902.92	-19.17	-151.25	0.04	1.41	M	-151.07	-26.28
13hc141	41	18.35	121	54.77	3806.6	979907.18	-20.60	-150.43	0.02	1.17	M	-150.48	-26.13
13hc142	41	17.64	121	55.38	3746.9	979911.65	-20.68	-148.47	0.07	0.99	M	-148.68	-25.08
13hc143	41	16.97	121	55.30	3733.3	979914.52	-18.08	-145.41	0.06	0.90	M	-145.72	-22.64
13hc144	41	16.18	121	55.42	3741.2	979917.21	-13.47	-141.07	0.02	0.79	M	-141.48	-19.15
13hc145	41	15.98	121	52.70	3882.9	979909.67	-7.39	-139.82	0.10	0.81	M	-140.25	-17.16
13hc146	41	15.67	121	52.85	3856.3	979911.61	-7.49	-139.01	0.07	0.80	M	-139.44	-16.64
13hc147	41	14.93	121	52.90	3861.1	979913.23	-4.31	-136.00	0.05	0.83	M	-136.40	-14.22
13hc148	41	14.38	121	53.27	3919.4	979910.63	-0.61	-134.28	0.07	0.94	M	-134.58	-13.02
13hc149	41	13.93	121	53.34	3977.0	979910.17	5.02	-130.62	0.15	1.15	M	-130.72	-9.59
13hc150	41	13.31	121	53.00	4330.0	979887.58	16.54	-131.14	1.08	2.29	M	-130.16	-9.54
13hc151	41	12.89	121	53.11	4563.5	979873.71	25.24	-130.40	0.85	2.37	M	-129.38	-9.22
13hc152	41	12.44	121	53.22	4818.2	979859.38	35.52	-128.81	1.47	3.42	M	-126.77	-7.10
13hc153	41	11.98	121	53.54	4980.6	979849.56	41.66	-128.21	1.84	4.09	M	-125.52	-6.40
13hc154	41	11.63	121	54.01	5044.8	979846.35	45.00	-127.06	1.47	3.89	M	-124.57	-5.98
13hc155	41	11.03	121	54.28	4919.8	979854.68	42.48	-125.31	2.37	4.61	M	-122.10	-4.14
13hc156	41	11.30	121	54.77	5243.1	979834.51	52.29	-126.53	1.02	4.12	M	-123.84	-5.93
13hc157	41	10.82	121	54.81	5484.9	979819.07	60.30	-126.77	1.06	5.30	M	-122.93	-5.53
13hc158	41	10.55	121	55.06	5544.8	979815.31	62.57	-126.54	0.63	5.35	M	-122.66	-5.63
13hc159	41	13.68	121	52.15	4026.4	979906.01	5.88	-131.45	0.17	1.26	M	-131.45	-10.10
13hc160	41	14.49	121	54.02	3896.1	979912.77	-0.82	-133.70	0.04	0.89	M	-134.05	-12.68
13hc161	41	14.33	121	54.72	3935.2	979910.21	0.53	-133.68	0.09	0.96	M	-133.97	-13.01
13hc162	41	14.74	121	55.44	3790.3	979917.99	-5.92	-135.20	0.23	1.08	M	-135.33	-14.24
13hc163	41	15.21	121	56.32	3696.7	979923.26	-10.15	-136.23	0.11	0.95	M	-136.48	-15.25
13hc164	41	14.18	121	56.07	3828.0	979920.24	0.71	-129.85	0.47	1.44	M	-129.64	-9.28
13hc165	41	14.91	121	57.22	3671.8	979923.87	-11.44	-136.67	0.29	1.17	M	-136.69	-16.05
13hc166	41	14.65	121	58.11	3652.2	979927.57	-9.19	-133.75	0.15	1.06	M	-133.88	-13.80
13hc167	41	14.12	121	59.12	3565.5	979936.72	-7.40	-129.00	0.25	1.31	M	-128.87	-9.62
13hc168	41	13.66	122	0.14	3554.6	979940.24	-4.22	-125.45	0.22	1.30	M	-125.31	-6.86
13hc169	41	14.33	122	0.48	3505.1	979940.47	-9.64	-129.19	0.20	1.19	M	-129.16	-10.18
13hc170	41	14.53	121	59.79	3560.6	979933.58	-11.61	-133.05	0.02	0.97	M	-133.24	-13.84
13hc171	41	15.11	121	59.36	3575.5	979930.33	-14.33	-136.28	0.01	0.90	M	-136.55	-16.47
13hc172	41	15.55	121	59.18	3597.1	979928.23	-15.06	-137.74	0.02	0.89	M	-138.03	-17.48
13hc173	41	16.00	121	58.83	3626.7	979924.06	-17.12	-140.81	0.01	0.86	M	-141.13	-20.11
13hc174	41	16.31	121	58.65	3646.5	979921.86	-17.92	-142.29	0.01	0.85	M	-142.62	-21.26
13hc175	41	16.81	121	58.49	3678.2	979919.37	-18.18	-143.62	0.02	0.87	M	-143.95	-22.09
13hc176	41	17.30	121	58.39	3722.0	979915.28	-18.88	-145.82	0.01	0.88	M	-146.15	-23.83
13hc177	41	17.86	121	58.61	3756.7	979911.23	-20.51	-148.63	0.01	0.94	M	-148.90	-26.20
13hc178	41	18.33	121	58.88	3792.7	979907.02	-22.03	-151.39	0.02	1.02	M	-151.59	-28.59
13hc179	41	19.22	121	59.41	3884.1	979898.55	-23.24	-155.72	0.01	1.16	M	-155.79	-32.27
13hc180	41	18.98	121	58.53	3846.5	979903.13	-21.84	-153.03	0.02	1.07	M	-153.19	-29.60
13hc181	41	18.24	121	57.82	3797.3	979908.85	-19.64	-149.15	0.02	0.95	M	-149.42	-26.16
13hc182	41	17.64	121	57.17	3737.9	979911.72	-21.45	-148.94	0.00	0.87	M	-149.27	-26.26
13hc183	41	16.65	121	56.50	3693.4	979917.30	-18.58	-144.55	0.01	0.82	M	-144.92	-22.51
13hc184	41	15.84	121	56.49	3655.8	979922.51	-15.69	-140.38	0.05	0.88	M	-140.69	-18.96
13hc185	40	52.67	121	44.21	3476.8	979908.19	-12.23	-130.81	1.17	2.84	M	-129.12	-15.71
13hc186	40	51.17	121	45.67	4361.3	979850.04	15.00	-133.75	0.39	2.11	M	-132.95	-21.59
13hc187	40	51.93	121	45.84	4708.5	979828.43	24.89	-135.70	0.62	3.32	M	-133.75	-22.44
13hc188	40	52.47	121	46.63	5222.0	979794.50	38.42	-139.68	1.48	6.58	M	-134.54	-23.94
13hc189	40	52.93	121	47.03	5057.6	979807.02	34.80	-137.69	0.94	5.10	M	-134.01	-23.60
13hc190	40	53.47	121	47.73	5058.8	979809.80	36.89	-135.65	1.14	5.31	M	-131.75	-21.83
13hc191	40	53.96	121	48.32	5297.0	979797.63	46.38	-134.28	1.18	6.80	M	-128.92	-19.40
13hc192	40	54.48	121	48.85	5462.6	979787.12	50.65	-135.66	1.15	8.20	M	-128.91	-19.70
13hc193	40	51.59	121	45.83	4592.4	979836.27	22.33	-134.30	0.43	2.66	M	-132.99	-21.74
13hc194	40	52.57	121	43.07	3242.0	979919.71	-22.64	-133.21	0.08	1.68	M	-132.62	-18.08
13hc195	40	52.08	121	43.03	3256.1	979918.65	-21.64	-132.69	0.09	1.89	M	-131.90	-17.43
13hc196	40	51.81	121	43.30	3286.3	979918.01	-19.04	-131.12	0.29	2.30	M	-129.93	-15.76
13hc197	40	51.68	121	42.71	3287.9	979916.43	-20.27	-132.41	0.23	2.04	M	-131.47	-16.76
13hc198	40	51.04	121	42.84	3563.1	979898.45	-11.43	-132.95	0.46	2.13	M	-131.99	-17.56
13hc199	40	50.47	121	42.66	3790.9	979881.33	-6.28	-135.58	0.32	1.92	M	-134.87	-20.41
13hc200	40	49.50	121	42.45	3927.4	979869.32	-4.01	-137.96	0.20	1.94	M	-137.27	-22.78

13hc201	40	48.49	121	42.39	4091.4	979857.49	1.08	-138.46	0.09	1.91	M	-137.82	-23.44
13hc202	40	52.25	121	39.68	3208.6	979920.64	-24.37	-133.80	0.29	1.87	M	-133.02	-15.33
13hc203	40	52.73	121	54.43	3020.0	979947.39	-16.07	-119.07	0.42	2.13	M	-117.98	-14.91
13hc204	40	56.01	121	55.03	2968.1	979960.94	-12.29	-113.52	0.14	1.17	M	-113.38	-8.46
13hc205	40	55.95	121	56.82	2687.6	979980.07	-19.44	-111.11	0.07	0.96	M	-111.10	-7.77
13hc206	40	55.98	121	57.70	2766.3	979975.10	-17.06	-111.41	0.28	1.37	M	-111.01	-8.41
13hc207	40	55.11	121	58.60	2363.8	979993.04	-35.66	-116.28	2.65	3.59	M	-113.56	-12.48
13hc208	40	55.39	121	59.17	1967.5	980017.10	-49.28	-116.39	2.81	4.35	M	-112.79	-11.88
13hc209	40	54.83	121	59.03	1560.5	980039.56	-64.26	-117.48	2.82	5.77	M	-112.32	-11.75
13hc210	40	55.67	121	58.19	2640.4	979979.33	-24.20	-114.26	0.66	1.73	M	-113.47	-11.55
13hc211	40	59.74	121	55.16	2430.3	980004.07	-25.29	-108.18	0.62	1.91	M	-107.16	0.74
13hc212	40	59.82	121	55.88	2120.4	980021.67	-36.95	-109.27	3.21	4.87	M	-105.19	2.28
13hc213	41	0.08	121	57.21	1972.6	980031.94	-40.97	-108.24	1.90	3.84	M	-105.15	1.66
13hc214	40	59.53	121	58.27	1483.6	980056.12	-61.95	-112.55	2.90	7.08	M	-106.05	-0.43
13hc215	40	59.91	121	57.70	1736.9	980044.40	-50.41	-109.65	1.51	4.33	M	-105.99	0.35
13hc216	40	59.85	121	56.72	1940.7	980033.85	-41.71	-107.90	2.24	4.30	M	-104.34	2.60
13hc217	41	6.48	121	59.57	4367.3	979883.89	26.56	-122.39	1.91	4.39	M	-119.32	-7.99
13hc218	41	7.18	121	59.56	4757.2	979860.45	38.72	-123.53	1.74	5.29	M	-119.61	-7.64
13hc219	41	8.14	121	58.68	5512.2	979812.12	59.92	-128.08	3.06	9.68	M	-119.86	-6.65
13hc220	41	8.67	121	58.80	6070.3	979773.56	73.01	-134.02	4.69	15.29	M	-120.23	-6.70
13hc221	41	7.67	121	59.00	5031.2	979842.64	45.93	-125.66	3.00	7.30	M	-119.77	-7.11
13hc222	41	6.05	122	0.58	3844.2	979915.47	9.61	-121.50	2.49	4.01	M	-118.72	-8.21
13hc223	41	6.11	121	59.24	3756.7	979922.21	8.03	-120.09	2.04	3.64	M	-117.66	-6.43
13hc224	41	6.60	121	57.93	3951.4	979912.74	16.14	-118.63	0.75	2.69	M	-117.19	-4.87
13hc225	41	7.10	121	57.04	4195.8	979895.87	21.49	-121.61	2.81	5.22	M	-117.68	-4.46
13hc226	41	6.03	121	57.11	4037.5	979906.34	18.68	-119.02	1.57	4.25	M	-116.04	-3.86
13hc227	41	5.92	121	58.27	3873.7	979916.65	13.76	-118.36	1.01	2.92	M	-116.67	-5.16
13hc228	41	5.12	121	58.02	3379.0	979944.48	-3.72	-118.97	2.01	3.70	M	-116.40	-5.46
13hc229	41	4.39	121	57.90	3049.3	979965.59	-12.52	-116.52	0.57	2.17	M	-115.40	-5.09
13hc230	41	3.38	121	58.04	2810.2	979980.03	-19.05	-114.89	0.49	1.78	M	-114.11	-4.80
13hc231	41	1.46	121	54.09	1787.5	980042.54	-49.83	-110.80	0.59	3.74	M	-107.74	2.45
13hc232	40	57.04	121	56.73	2856.4	979972.16	-13.11	-110.53	0.08	0.93	M	-110.61	-6.29
13hc233	41	4.61	121	14.10	4891.6	979826.06	20.80	-146.03	0.65	2.33	M	-145.10	-8.88
13hc234	41	5.18	121	14.10	5152.4	979808.39	26.79	-148.94	1.04	3.62	M	-146.74	-10.56
13hc235	41	5.81	121	14.32	5197.2	979807.13	28.80	-148.45	0.70	3.40	M	-146.48	-10.39
13hc236	41	6.58	121	14.48	5005.9	979823.30	25.84	-144.89	0.44	2.23	M	-144.07	-7.99
13hc237	41	6.29	121	13.89	4813.5	979833.42	18.31	-145.86	0.94	2.13	M	-145.11	-8.63
13hc238	41	6.09	121	13.24	4508.8	979850.39	6.94	-146.84	1.04	1.72	M	-146.46	-9.49
13hc239	41	10.64	121	11.55	4185.0	979868.01	-12.67	-155.41	0.01	0.33	M	-156.36	-17.84
13hc240	41	12.28	121	14.31	4249.9	979878.69	1.66	-143.29	0.57	1.09	M	-143.49	-6.28
13hc241	41	11.62	121	14.75	4234.6	979882.81	5.33	-139.10	1.05	1.83	M	-138.57	-1.74
13hc242	41	12.04	121	15.69	4253.1	979882.58	6.21	-138.85	0.93	1.77	M	-138.38	-1.99
13hc243	41	12.58	121	16.90	4315.7	979879.22	7.92	-139.27	1.20	1.99	M	-138.59	-2.75
13hc244	41	12.53	121	17.95	4412.6	979875.12	13.01	-137.49	1.28	2.11	M	-136.71	-1.46
13hc245	41	15.71	121	14.42	4262.2	979872.50	-8.50	-153.87	0.11	0.35	M	-154.82	-16.89
13hc246	41	15.82	121	15.21	4271.9	979873.45	-6.81	-152.51	0.29	0.54	M	-153.26	-15.70
13hc247	41	15.51	121	16.19	4284.2	979875.85	-2.79	-148.90	0.51	0.85	M	-149.36	-12.40
13hc248	41	15.18	121	17.01	4296.7	979877.97	1.00	-145.54	0.25	0.70	M	-146.15	-9.68
13hc249	41	14.57	121	17.19	4345.8	979876.10	4.66	-143.56	0.78	1.27	M	-143.60	-7.40
13hc250	41	15.03	121	17.99	4294.1	979882.00	5.01	-141.44	0.60	1.09	M	-141.66	-5.69
13hc251	41	15.33	121	18.29	4304.7	979882.98	6.54	-140.28	0.28	0.72	M	-140.87	-4.99
13hc252	41	15.98	121	18.98	4325.8	979883.49	8.06	-139.48	0.15	0.51	M	-140.28	-4.55
13hc253	41	16.21	121	19.60	4320.0	979885.17	8.85	-138.49	0.23	0.61	M	-139.19	-3.69
13hc254	41	16.23	121	13.48	4213.6	979873.56	-12.79	-156.50	0.01	0.16	M	-157.63	-19.15
13hc255	41	17.11	121	15.08	4262.1	979870.28	-12.83	-158.19	0.01	0.14	M	-159.35	-21.41
13hc256	41	17.27	121	15.87	4266.8	979871.61	-11.29	-156.82	0.01	0.14	M	-157.98	-20.37
13hc257	41	17.91	121	16.51	4251.8	979873.88	-11.39	-156.40	0.10	0.22	M	-157.49	-20.00
13hc258	41	17.09	121	13.70	4231.3	979868.82	-17.15	-161.46	0.01	0.12	M	-162.64	-24.02
13hc259	41	17.83	121	13.66	4213.9	979874.40	-14.31	-158.03	0.01	0.11	M	-159.22	-20.41
13hc260	41	18.08	121	12.95	4218.8	979878.02	-10.61	-154.49	0.01	0.10	M	-155.68	-16.48
13hc261	41	18.25	121	12.21	4205.0	979880.00	-10.18	-153.59	0.01	0.12	M	-154.77	-15.16
13hc262	41	18.19	121	11.63	4222.2	979881.77	-6.70	-150.70	0.09	0.20	M	-151.80	-11.92
13hc263	41	17.72	121	11.35	4235.5	979879.68	-6.84	-151.30	0.03	0.15	M	-152.44	-12.54
13hc264	41	18.11	121	10.88	4289.8	979881.14	-0.86	-147.17	0.02	0.15	M	-148.32	-8.13
13hc265	41	18.36	121	10.13	4326.6	979884.85	5.94	-141.63	0.04	0.18	M	-142.75	-2.14
13hc266	40	38.31	121	26.57	4530.9	979795.51	-4.41	-158.94	0.59	2.68	M	-157.61	-26.19
13hc267	40	37.64	121	26.31	4622.9	979788.60	-1.68	-159.34	0.71	2.99	M	-157.71	-26.05
13hc268	40	37.72	121	27.02	4741.8	979782.62	3.40	-158.32	0.24	2.21	M	-157.48	-26.59
13hc269	40	37.24	121	27.43	4730.2	979784.82	5.23	-156.10	0.12	2.27	M	-155.20	-24.71
13hc270	40	37.34	121	24.69	4710.4	979782.97	1.37	-159.29	0.82	3.81	M	-156.85	-23.71

13hc271	40	37.67	121	25.51	4564.9	979792.36	-3.41	-159.10	0.45	3.07	M	-157.38	-24.93
13hc272	40	38.08	121	24.91	4464.4	979799.66	-6.17	-158.43	0.27	3.03	M	-156.74	-23.68
13hc273	40	38.33	121	24.23	4378.8	979805.42	-8.83	-158.17	0.26	3.38	M	-156.11	-22.42
13hc274	40	39.28	121	19.86	5458.8	979737.28	23.13	-163.05	0.03	1.50	M	-163.00	-26.11
13hc275	40	39.07	121	19.32	5427.2	979738.87	22.06	-163.04	0.06	1.49	M	-163.00	-25.67
13hc276	40	39.10	121	18.69	5403.2	979740.17	21.06	-163.22	0.03	1.40	M	-163.27	-25.45
13hc277	40	38.54	121	20.19	5534.3	979730.91	24.95	-163.80	0.08	1.76	M	-163.50	-26.85
13hc278	40	37.74	121	19.77	5607.4	979724.54	26.65	-164.60	0.13	1.96	M	-164.10	-27.08
13hc279	40	37.18	121	19.07	5664.5	979719.10	27.41	-165.79	0.17	2.07	M	-165.19	-27.63
13hc280	40	36.53	121	18.40	5753.8	979710.67	28.34	-167.90	0.20	2.19	M	-167.19	-29.14
13hc281	40	36.05	121	17.88	5744.6	979709.58	27.10	-168.83	0.34	2.39	M	-167.91	-29.43
13hc282	40	35.24	121	17.61	5804.2	979704.28	28.61	-169.35	0.39	2.68	M	-168.15	-29.53
13hc283	40	33.90	121	17.99	6081.3	979687.05	39.41	-168.00	0.28	2.76	M	-166.74	-28.65
13hc284	40	34.68	121	18.08	6000.0	979692.32	35.88	-168.75	0.71	3.15	M	-167.09	-28.95
13hc285	40	38.37	121	16.99	5394.3	979738.52	19.66	-164.32	0.02	1.42	M	-164.34	-25.14
13hc286	40	37.09	121	17.69	5530.8	979726.13	22.01	-166.63	0.32	2.06	M	-166.03	-27.36
13hc287	40	37.79	121	17.29	5441.4	979735.65	22.08	-163.50	0.04	1.57	M	-163.38	-24.38
13hc288	40	38.85	121	9.91	5572.4	979726.63	23.79	-166.26	0.13	1.41	M	-166.31	-22.53
13hc289	40	39.22	121	10.68	5575.7	979727.26	24.18	-165.98	0.32	1.56	M	-165.89	-22.60
13hc290	40	39.53	121	11.37	5601.0	979726.57	25.41	-165.62	0.19	1.41	M	-165.68	-22.88
13hc291	40	40.13	121	11.53	5576.9	979729.44	25.12	-165.09	0.16	1.35	M	-165.20	-22.54
13hc292	40	40.76	121	11.64	5592.7	979728.84	25.06	-165.68	0.05	1.21	M	-165.93	-23.43
13hc293	40	39.98	121	12.32	5577.0	979728.26	24.17	-166.04	0.14	1.31	M	-166.19	-24.04
13hc294	40	39.22	121	12.59	5586.7	979725.79	23.75	-166.80	0.38	1.60	M	-166.66	-24.59
13hc295	40	39.14	121	13.30	5695.3	979717.88	26.16	-168.08	0.33	1.60	M	-167.96	-26.38
13hc296	40	39.04	121	13.94	5533.6	979730.60	23.83	-164.90	0.13	1.37	M	-164.99	-23.76
13hc297	40	39.18	121	14.59	5408.5	979738.08	19.35	-165.12	0.09	1.34	M	-165.23	-24.41
13hc298	40	39.07	121	15.29	5359.5	979741.58	18.41	-164.39	0.04	1.33	M	-164.50	-24.15
13hc299	40	38.97	121	15.90	5358.8	979742.11	19.02	-163.75	0.02	1.31	M	-163.88	-23.94
13hc300	40	39.27	121	16.67	5356.0	979743.18	19.38	-163.29	0.01	1.27	M	-163.47	-24.10
13hc301	40	40.95	121	17.51	5285.9	979752.52	19.63	-160.65	0.03	1.19	M	-160.90	-22.39
13hc302	40	41.73	121	18.42	5217.0	979757.65	17.12	-160.81	0.10	1.27	M	-160.97	-23.27
13hc303	40	42.55	121	19.21	5080.1	979768.53	13.91	-159.35	0.14	1.36	M	-159.41	-22.44
13hc304	40	42.85	121	19.72	5053.5	979771.84	14.27	-158.08	0.05	1.26	M	-158.23	-21.74
13hc305	40	42.94	121	20.24	5025.2	979773.84	13.48	-157.91	0.04	1.24	M	-158.09	-22.04
13hc306	40	43.06	121	20.88	4994.5	979775.83	12.40	-157.94	0.02	1.21	M	-158.13	-22.62
13hc307	40	42.95	121	21.45	4986.8	979775.87	11.88	-158.20	0.03	1.25	M	-158.35	-23.28
13hc308	40	42.11	121	20.85	5133.8	979764.38	15.46	-159.63	0.07	1.30	M	-159.75	-24.04
13hc309	40	41.03	121	20.82	5190.7	979757.38	15.42	-161.61	0.13	1.43	M	-161.61	-25.71
13hc310	40	40.17	121	20.20	5361.5	979745.11	20.48	-162.38	0.06	1.43	M	-162.39	-25.88
13hc311	41	1.47	121	46.86	4255.7	979878.49	18.15	-126.99	2.12	4.11	M	-124.18	-9.47
13hc312	41	1.82	121	47.31	4712.0	979850.01	32.04	-128.67	1.23	4.36	M	-125.68	-11.16
13hc313	41	2.39	121	47.27	4897.1	979840.59	39.17	-127.86	0.85	4.43	M	-124.82	-9.97
13hc314	41	2.97	121	47.43	4914.5	979842.15	41.49	-126.12	0.37	3.79	M	-123.72	-8.58
13hc315	41	3.55	121	47.37	4779.9	979853.42	39.25	-123.78	0.35	3.04	M	-122.11	-6.53
13hc316	41	4.18	121	47.61	4999.9	979840.44	46.00	-124.52	0.70	4.09	M	-121.84	-6.04
13hc317	41	4.43	121	47.10	4684.7	979860.99	36.56	-123.22	1.34	3.42	M	-121.16	-4.84
13hc318	41	4.35	121	46.13	4279.2	979883.36	20.93	-125.02	4.37	5.98	M	-120.34	-3.42
13hc319	41	4.25	121	45.16	3992.2	979898.91	9.65	-126.51	3.16	4.89	M	-122.87	-5.37
13hc320	41	3.77	121	44.69	3850.6	979904.36	2.51	-128.82	3.30	4.98	M	-125.07	-7.55
13hc321	41	3.45	121	43.99	3804.3	979906.73	1.00	-128.75	2.28	3.70	M	-126.27	-8.50
13hc322	40	55.54	121	35.89	3135.0	979927.98	-28.86	-135.78	0.44	0.94	M	-135.92	-14.82
13hc323	40	53.58	121	34.34	3257.2	979915.39	-27.04	-138.13	0.01	0.73	M	-138.50	-16.15
13hc324	40	53.44	121	33.29	3197.2	979917.05	-30.81	-139.85	0.01	0.78	M	-140.16	-16.95
13hc325	40	54.66	121	32.74	3191.8	979917.60	-32.58	-141.45	0.01	0.58	M	-141.95	-18.37
13hc326	40	55.94	121	32.90	2998.7	979931.97	-38.28	-140.55	0.13	0.81	M	-140.79	-17.34
13hc327	40	53.36	121	40.10	3110.0	979930.78	-25.16	-131.23	0.12	1.20	M	-131.09	-13.64
14hc037	41	11.83	121	37.70	3798.0	979913.97	-4.87	-134.40	0.25	0.58	M	-135.04	-9.30
15hc001	40	47.51	121	42.40	4111.1	979853.59	0.49	-139.72	0.21	2.35	M	-138.65	-24.41
15hc002	40	47.18	121	42.42	4258.0	979843.20	4.40	-140.82	0.30	2.31	M	-139.81	-25.69
15hc003	40	46.43	121	42.24	4575.3	979821.54	13.69	-142.36	0.22	2.17	M	-141.54	-27.43
15hc004	40	45.84	121	41.78	4794.1	979809.02	22.61	-140.90	0.14	2.12	M	-140.16	-25.63
15hc005	40	45.14	121	41.58	4913.5	979799.45	25.31	-142.27	0.12	2.14	M	-141.53	-26.89
15hc006	40	45.30	121	42.85	4910.9	979798.75	24.13	-143.37	0.28	2.43	M	-142.33	-29.20
15hc007	40	44.17	121	41.14	4871.4	979801.46	24.81	-141.34	0.40	2.51	M	-140.21	-25.13
15hc008	40	43.18	121	40.96	4992.7	979792.37	28.60	-141.69	0.04	2.36	M	-140.73	-25.64
15hc009	40	42.44	121	40.69	4992.1	979791.72	28.99	-141.27	0.20	2.86	M	-139.81	-24.44
15hc010	40	41.58	121	40.44	5198.5	979779.11	37.06	-140.24	0.61	3.53	M	-138.13	-22.67
15hc011	40	43.12	121	42.26	4908.0	979798.83	27.18	-140.21	0.05	2.21	M	-139.39	-25.92
15hc012	40	43.15	121	41.50	4992.6	979792.99	29.25	-141.03	0.03	2.26	M	-140.18	-25.76

15hc013	40	45.86	121	41.16	4810.8	979807.97	23.10	-140.98	0.29	2.28	M	-140.08	-24.82
15hc014	40	46.17	121	40.16	4931.7	979800.46	26.49	-141.71	0.24	2.36	M	-140.74	-24.36
15hc015	40	46.43	121	39.71	5029.7	979795.48	30.34	-141.21	0.42	2.74	M	-139.88	-23.00
15hc016	40	46.57	121	39.02	5018.8	979795.27	28.89	-142.28	0.26	2.74	M	-140.95	-23.32
15hc017	41	4.96	121	38.42	3339.0	979933.17	-18.55	-132.44	0.22	0.98	M	-132.57	-10.74
15hc018	41	5.27	121	37.60	3318.4	979933.05	-21.07	-134.25	0.16	0.96	M	-134.41	-11.96
15hc019	41	5.31	121	37.04	3294.4	979934.36	-22.08	-134.44	0.48	1.29	M	-134.26	-11.51
15hc020	41	6.95	121	38.19	4006.8	979892.97	1.05	-135.61	0.23	0.92	M	-135.94	-13.19
15hc021	41	6.48	121	37.37	3943.6	979893.40	-3.76	-138.26	0.84	1.47	M	-138.04	-15.08
15hc022	41	6.31	121	36.57	3862.4	979896.96	-7.58	-139.31	0.23	0.77	M	-139.77	-16.45
15hc023	41	5.95	121	36.09	3777.0	979903.26	-8.77	-137.59	0.21	0.72	M	-138.08	-14.64
15hc024	41	5.52	121	35.19	3678.5	979908.72	-11.93	-137.38	0.42	1.00	M	-137.57	-13.80
15hc025	41	6.33	121	35.51	3748.2	979903.77	-11.53	-139.37	0.32	0.75	M	-139.82	-15.89
15hc026	41	11.99	121	39.81	4121.8	979893.53	4.89	-135.69	0.11	0.50	M	-136.47	-11.55
15hc027	41	12.00	121	39.10	4070.2	979896.87	3.36	-135.46	0.21	0.57	M	-136.16	-10.93
15hc028	41	12.16	121	38.19	3849.4	979911.58	-2.92	-134.21	0.16	0.47	M	-134.96	-9.21
15hc029	41	12.36	121	37.28	3852.2	979911.88	-2.66	-134.04	0.02	0.28	M	-134.99	-8.77
15hc030	41	12.39	121	36.45	3792.6	979915.42	-4.76	-134.12	0.05	0.29	M	-135.04	-8.45
15hc031	41	12.10	121	35.62	3725.5	979917.89	-8.17	-135.23	0.17	0.40	M	-136.03	-9.24
15hc032	41	11.11	121	35.31	3675.6	979917.69	-11.58	-136.94	0.10	0.36	M	-137.77	-11.39
15hc033	41	10.74	121	34.92	3640.4	979918.00	-14.03	-138.19	0.12	0.39	M	-138.98	-12.62
15hc034	41	12.64	121	35.70	3779.0	979916.08	-5.76	-134.64	0.06	0.28	M	-135.58	-8.52
15hc035	41	13.17	121	36.75	3750.2	979919.96	-5.38	-133.28	0.09	0.36	M	-134.13	-7.22
15hc036	41	11.99	121	36.44	3845.4	979911.29	-3.33	-134.48	0.04	0.29	M	-135.42	-9.06
15hc038	41	12.62	121	39.01	3827.5	979914.68	-2.57	-133.11	0.15	0.52	M	-133.81	-8.11
15hc039	41	13.21	121	38.51	3867.0	979912.37	-2.05	-133.93	0.15	0.47	M	-134.70	-8.46
15hc040	41	13.66	121	38.14	4038.3	979903.82	4.83	-132.90	0.26	0.56	M	-133.60	-7.00
15hc041	41	14.11	121	37.85	3835.8	979916.69	-2.00	-132.83	0.54	0.84	M	-133.21	-6.13
15hc042	41	11.42	121	37.91	3913.2	979907.01	-0.39	-133.85	0.08	0.40	M	-134.69	-9.29
15hc043	41	11.58	121	39.85	4042.1	979900.65	5.13	-132.73	0.10	0.50	M	-133.50	-8.85
15hc044	41	12.59	121	39.92	4166.7	979891.10	5.78	-136.33	0.54	0.94	M	-136.67	-11.45
15hc045	41	13.45	121	40.42	4036.0	979902.64	3.75	-133.90	0.14	0.50	M	-134.66	-9.05
15hc046	41	14.12	121	40.67	4158.7	979896.37	8.01	-133.82	0.10	0.48	M	-134.62	-8.65
15hc047	41	9.86	121	41.23	4220.9	979890.25	14.11	-129.85	0.87	1.61	M	-129.53	-6.59
15hc048	41	10.69	121	40.56	4250.8	979887.31	12.74	-132.24	0.85	1.43	M	-132.11	-8.35
15hc049	41	10.22	121	38.99	4199.4	979889.23	10.53	-132.70	0.07	0.60	M	-133.38	-9.22
15hc050	41	0.99	121	38.00	2911.3	979951.23	-34.78	-134.07	0.33	0.98	M	-134.11	-13.51
15hc051	40	50.66	121	22.93	4377.0	979832.84	0.04	-149.24	0.18	1.17	M	-149.39	-17.48
15hc052	40	50.51	121	22.28	4439.4	979829.38	2.67	-148.74	0.18	1.22	M	-148.86	-16.37
15hc053	40	50.51	121	21.43	4375.6	979834.28	1.57	-147.66	0.78	1.98	M	-147.01	-13.82
15hc054	40	48.69	121	19.76	5254.6	979772.12	24.74	-154.47	0.18	1.63	M	-154.28	-19.50
15hc055	40	47.99	121	20.03	5216.0	979773.44	23.48	-154.42	0.14	1.52	M	-154.33	-19.55
15hc056	40	47.15	121	20.99	4933.6	979789.71	14.46	-153.81	0.30	1.51	M	-153.70	-19.38
15hc057	40	47.10	121	19.60	5430.1	979756.78	28.27	-156.93	0.15	1.76	M	-156.62	-21.30
15hc058	40	46.76	121	18.60	5515.3	979752.04	32.04	-156.06	0.04	1.59	M	-155.93	-19.76
15hc059	40	46.49	121	17.82	5583.6	979746.40	33.23	-157.21	0.05	1.57	M	-157.10	-20.30
15hc060	40	46.35	121	17.11	5666.1	979739.39	34.18	-159.07	0.03	1.60	M	-158.94	-21.57
15hc061	40	46.21	121	16.41	5675.0	979737.89	33.72	-159.83	0.02	1.53	M	-159.77	-21.83
15hc062	40	45.72	121	15.90	5688.6	979735.26	33.10	-160.91	0.01	1.49	M	-160.90	-22.45
15hc063	40	45.44	121	15.63	5692.0	979733.67	32.25	-161.88	0.01	1.47	M	-161.89	-23.18
15hc064	40	45.41	121	14.27	5719.0	979732.20	33.36	-161.69	0.04	1.60	M	-161.56	-21.83
15hc065	40	46.43	121	14.43	5698.9	979736.86	34.61	-159.76	0.16	1.82	M	-159.41	-20.08
15hc066	40	44.60	121	16.46	5652.9	979733.06	29.22	-163.58	0.01	1.41	M	-163.64	-25.29
15hc067	40	45.51	121	17.56	5626.5	979738.09	30.41	-161.49	0.03	1.55	M	-161.41	-24.14
15hc068	40	45.32	121	18.30	5570.0	979739.85	27.14	-162.83	0.04	1.62	M	-162.68	-25.91
15hc069	40	46.49	121	19.98	5407.3	979755.57	25.83	-158.60	0.42	2.03	M	-158.01	-22.82
15hc070	40	44.91	121	20.29	4894.0	979786.41	10.78	-156.14	0.22	1.49	M	-156.04	-20.46
15hc071	40	44.71	121	19.76	4896.9	979784.92	9.86	-157.15	0.98	2.30	M	-156.24	-20.19
15hc072	40	43.77	121	19.00	4973.0	979776.42	9.91	-159.70	1.62	2.94	M	-158.16	-21.29
15hc073	40	42.24	121	18.80	5088.1	979766.66	13.25	-160.28	0.35	1.57	M	-160.13	-22.78
15hc074	40	40.09	121	16.98	5333.0	979747.99	20.81	-161.08	0.01	1.20	M	-161.33	-22.31
15hc075	40	47.79	121	16.41	5413.8	979759.97	28.90	-155.75	0.08	1.38	M	-155.82	-18.24
15hc076	40	48.64	121	16.67	5302.4	979768.39	25.58	-155.26	0.05	1.27	M	-155.43	-18.24
15hc077	40	50.92	121	17.68	5136.9	979781.65	19.88	-155.32	0.34	1.62	M	-155.12	-19.34
15hc078	40	51.44	121	17.98	5107.8	979785.85	20.57	-153.63	0.36	1.73	M	-153.32	-17.95
15hc079	40	52.50	121	18.78	4710.9	979816.29	12.13	-148.54	0.36	1.47	M	-148.44	-13.86
15hc080	40	54.11	121	19.16	4209.8	979847.96	-5.71	-149.29	0.41	1.32	M	-149.26	-15.23
15hc081	40	53.68	121	19.63	4550.5	979826.85	5.85	-149.35	0.61	1.73	M	-148.96	-15.30
15hc082	40	52.94	121	19.66	4705.6	979817.92	12.60	-147.89	0.18	1.40	M	-147.86	-14.07
15hc083	40	52.46	121	20.02	4705.4	979819.85	15.23	-145.25	0.21	1.43	M	-145.19	-11.56

15hc084	40	54.02	121	18.40	4204.1	979848.39	-5.68	-149.06	0.32	1.24	M	-149.11	-14.47
15hc085	40	53.77	121	17.76	4336.4	979839.00	-2.26	-150.16	0.39	1.28	M	-150.19	-15.04
15hc086	40	53.07	121	16.85	4592.0	979818.44	2.25	-154.36	0.25	1.19	M	-154.52	-18.55
15hc087	40	53.29	121	16.18	4470.0	979825.20	-2.78	-155.24	0.10	1.01	M	-155.56	-19.11
15hc088	40	53.43	121	15.72	4405.0	979828.30	-6.00	-156.24	0.13	1.05	M	-156.51	-19.75
15hc089	40	53.50	121	15.21	4462.4	979822.86	-6.15	-158.35	0.17	1.07	M	-158.61	-21.49
15hc090	40	53.85	121	14.77	4431.4	979825.59	-6.86	-158.00	0.21	1.09	M	-158.24	-20.89
15hc091	40	54.74	121	14.34	4276.5	979838.13	-10.21	-156.06	0.18	1.02	M	-156.34	-18.86
15hc092	41	0.06	121	18.07	3327.2	979915.66	-29.86	-143.33	0.04	0.66	M	-143.79	-9.80
15hc093	41	1.36	121	18.09	3324.7	979916.73	-30.96	-144.36	0.00	0.62	M	-144.85	-10.97
15hc094	41	1.35	121	18.65	3317.5	979917.19	-31.16	-144.31	0.01	0.55	M	-144.88	-11.40
15hc095	41	8.30	121	37.11	3928.9	979898.21	-3.05	-137.05	0.12	0.58	M	-137.71	-13.68
15hc096	41	8.65	121	37.06	3931.2	979897.70	-3.87	-137.94	0.13	0.57	M	-138.61	-14.39
15hc097	41	8.80	121	36.58	3947.0	979893.82	-6.49	-141.10	0.12	0.57	M	-141.78	-17.25
15hc098	41	9.71	121	37.05	4040.6	979889.21	-3.66	-141.47	0.07	0.53	M	-142.20	-17.45
15hc099	41	9.27	121	37.42	4052.4	979889.89	-1.21	-139.42	0.06	0.55	M	-140.14	-15.79
15hc100	41	8.42	121	35.88	3788.2	979903.41	-11.26	-140.46	0.24	0.61	M	-141.06	-16.35
15hc101	41	8.02	121	36.29	3755.8	979907.23	-9.88	-137.98	0.14	0.53	M	-138.66	-14.36
15hc102	41	18.51	121	40.90	4258.9	979889.76	4.26	-141.00	0.12	0.64	M	-141.65	-12.94
15hc103	41	19.31	121	40.97	4307.0	979886.59	4.41	-142.48	0.14	0.62	M	-143.17	-14.00
15hc104	41	20.17	121	40.14	4276.0	979888.93	2.55	-143.28	0.09	0.51	M	-144.08	-14.08
15hc105	41	19.86	121	38.71	4228.0	979891.70	1.28	-142.92	0.16	0.54	M	-143.68	-13.45
15hc106	41	19.80	121	36.93	3956.8	979912.17	-3.66	-138.61	0.06	0.45	M	-139.40	-8.60
15hc107	41	19.98	121	35.42	3886.0	979918.85	-3.90	-136.44	0.01	0.41	M	-137.26	-5.88
15hc108	41	20.92	121	35.48	3923.0	979915.82	-4.86	-138.66	0.05	0.47	M	-139.43	-7.55
15hc109	41	21.45	121	35.70	3965.0	979912.79	-4.73	-139.96	0.04	0.46	M	-140.75	-8.64
15hc110	41	22.02	121	35.56	3989.0	979909.33	-6.79	-142.84	0.10	0.56	M	-143.54	-11.08
15hc111	41	22.65	121	35.48	4033.0	979905.35	-7.58	-145.13	0.06	0.55	M	-145.84	-13.04
15hc112	41	23.04	121	35.77	4110.7	979899.41	-6.80	-147.00	0.07	0.54	M	-147.73	-14.81
15hc113	41	23.87	121	35.84	4203.9	979892.90	-5.79	-149.17	0.07	0.60	M	-149.86	-16.52
15hc114	41	22.95	121	34.28	4063.7	979903.73	-6.76	-145.36	0.12	0.61	M	-146.02	-12.74
15hc115	41	20.36	121	34.26	3837.6	979923.77	-4.10	-134.99	0.05	0.56	M	-135.65	-3.70
15hc116	41	20.24	121	33.50	3862.8	979923.26	-2.06	-133.81	0.04	0.66	M	-134.38	-2.27
15hc117	41	19.78	121	33.21	3852.7	979926.05	0.47	-130.93	0.11	0.89	M	-131.27	0.67
15hc118	41	19.35	121	33.55	3857.1	979925.17	0.64	-130.91	0.03	0.68	M	-131.45	0.15
15hc119	41	18.95	121	33.87	3850.0	979924.89	0.29	-131.01	0.02	0.57	M	-131.67	-0.39
15hc120	41	18.49	121	34.22	3857.3	979923.67	0.45	-131.11	0.00	0.43	M	-131.91	-1.01
15hc121	41	17.97	121	34.68	3846.3	979922.79	-0.69	-131.87	0.02	0.37	M	-132.73	-2.27
15hc122	41	17.58	121	35.02	3843.5	979922.39	-0.77	-131.85	0.01	0.33	M	-132.75	-2.61
15hc123	41	17.14	121	35.35	3833.9	979921.70	-1.70	-132.46	0.01	0.31	M	-133.37	-3.60
15hc124	41	16.74	121	35.68	3831.0	979921.45	-1.63	-132.29	0.00	0.29	M	-133.22	-3.79
15hc125	41	20.13	121	32.48	3856.0	979924.43	-1.37	-132.88	1.18	2.11	M	-131.99	0.37
15hc126	41	18.20	121	32.53	3872.9	979921.88	0.56	-131.53	1.89	2.73	M	-130.03	1.30
15hc127	41	16.79	121	31.63	3804.5	979927.89	2.25	-127.51	0.86	1.69	M	-127.04	3.84
15hc128	41	17.72	121	31.57	4182.0	979903.06	11.51	-131.12	2.35	3.04	M	-129.37	1.94
15hc129	41	19.50	121	32.55	3876.0	979924.15	1.18	-131.02	2.03	2.99	M	-129.27	2.72
15hc130	41	20.65	121	32.35	3880.3	979919.43	-4.86	-137.20	1.31	2.11	M	-136.32	-3.63
15hc131	41	21.14	121	32.00	4069.5	979905.71	-1.53	-140.32	0.51	1.03	M	-140.56	-7.58
15hc132	41	21.26	121	31.20	4180.0	979899.06	2.03	-140.53	0.42	0.89	M	-140.93	-7.67
15hc133	41	20.73	121	30.30	4339.8	979889.03	7.81	-140.20	0.48	0.94	M	-140.58	-7.31
15hc134	41	20.42	121	29.50	4361.7	979886.97	8.28	-140.48	0.29	0.73	M	-141.07	-7.72
15hc135	41	20.02	121	41.05	4329.3	979885.37	4.23	-143.43	0.06	0.51	M	-144.23	-14.59
15hc136	41	8.74	121	38.70	4121.3	979891.75	7.92	-132.64	0.11	0.70	M	-133.22	-9.75
15hc137	40	54.96	121	27.83	3731.0	979881.68	-18.26	-145.51	0.13	0.60	M	-146.11	-18.89
15hc138	40	54.69	121	27.81	3660.8	979885.39	-20.75	-145.61	0.15	0.62	M	-146.17	-18.88
15hc139	40	54.39	121	27.85	3585.7	979889.72	-23.03	-145.33	0.13	0.64	M	-145.86	-18.53
15hc140	40	54.09	121	28.05	3513.6	979892.34	-26.74	-146.58	0.07	0.65	M	-147.08	-19.83
15hc141	40	54.18	121	28.44	3522.1	979893.47	-24.95	-145.07	0.05	0.60	M	-145.63	-18.72
15hc142	40	54.17	121	28.91	3496.5	979892.83	-27.98	-147.23	0.06	0.61	M	-147.77	-21.20
15hc143	40	53.90	121	27.78	3519.0	979891.34	-26.95	-146.97	0.10	0.71	M	-147.42	-19.93
15hc144	40	54.03	121	27.33	3536.8	979890.66	-26.15	-146.78	0.31	0.91	M	-147.03	-19.21
15hc145	40	53.80	121	27.58	3513.5	979891.97	-26.69	-146.52	0.13	0.78	M	-146.90	-19.23
15hc146	40	52.33	121	40.10	3145.4	979924.32	-26.75	-134.03	0.11	1.70	M	-133.41	-16.11
15hc147	40	52.63	121	39.05	3154.0	979924.23	-26.48	-134.05	0.24	1.70	M	-133.43	-15.12
burney	40	53.09	121	39.33	3126.8	979927.63	-26.32	-132.97	0.02	1.21	M	-132.82	-14.74
ch17	41	0.23	121	26.24	3315.7	979915.47	-31.38	-144.47	0.12	0.38	M	-145.20	-16.99



