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1. Introduction

In late 2012, a partnership between the British Columbia Oil and Gas Commission (BCOGC) and Natural Resources Canada (NRCan) was established to examine potential linkages between hydraulic fracturing (HF) operations associated with the development of shale gas in the Horn River Basin (HRB) and the increased level of local seismicity. The HRB, which is located in northeastern BC, is recognized as one of the largest shale gas fields in North America (US Department of Energy, 2011). Activities of HF began only recently in late 2006 (Farahbod et al., 2015a). They had increased rapidly and reached the peak in 2010 and 2011, then slowed down dramatically due to the collapse of the price of natural gas (British Columbia Oil and Gas Commission Report, 2012).

As a major effort of NRCan's Induced Seismicity Research Project, we conducted a systematic investigation of local seismicity in the HRB for time periods both before and after the start of the local shale gas development. Because the Canadian National Seismograph Network (CNSN) had only one broadband station in the northeast BC region (at Fort Nelson, FNBB) before 2013, the conventional earthquake location methods are inapplicable to small events whose seismic signals fail to reach multiple stations at distance. As a result, we had to take a totally different approach by utilizing the single-station location (SSL) method with a very limited dataset (Roberts et al., 1989). This location process was very time-consuming and labor intensive, but it was the only effective way to obtain accurate earthquake source parameters for the induced seismicity study of the HRB (Farahbod et al., 2014).

Continuous waveforms for two time periods, from 1 July 2002 to 30 June 2003 and from 1 December 2006 to 31 December 2011, were carefully analyzed to better define the spatiotemporal distribution of local seismicity. The time window of July 2002 – June 2003 was chosen to represent the overall baseline of background seismicity before the beginning of shale gas development in the HRB. Seismic events that occurred after December 2006 were compared to the timing, locations and injection parameters of HF operations in the area (obtained from the BCOGC) to investigate their possible relationship. Results of our study were formally published in 2015 as scientific articles in the

Canadian Journal of Earth Sciences (Farahbod et al., 2015a) and The Leading Edge (Farahbod et al., 2015b).

Due to the page limitation of our published articles, the earthquake catalogue obtained with the SSL method was not made available to the research community or the general public. As the interest in our papers and research works has increased, we have been receiving inquiries about the availability of the relocated earthquake catalogue. To address this need, the main objective of this open-file report is to document the phase selections used in our location process and to provide the resultant earthquake catalogue in a format useful to the research community. We have also slightly expanded the original database to add two more months of activity (November 2006 and January 2012).

2. Data and Analysis

Our primary dataset contains the continuous 3-component broadband waveforms from the FNBB station of the Canadian National Seismic Network at Fort Nelson. Whenever corresponding arrivals could be identified, waveforms from other nearby stations in the region, including Bull Mountain (BMBC), Fort St. James (FSB), Yellowknife (YKW), and three stations of the Alberta Telemetered Seismograph Network (HILA, MANA and WAPA), were also included to maximize data constraint.

In the case of relatively large events where *P* and *S* phases can be identified at more than one station, we measure the *S*-*P* time differences from all seismograms but the back azimuth from only the closest 3-component station. This is because back azimuths estimated from distant stations are often unreliable due to their low signal-to-noise ratio (S/N). Including these uncertain estimates would deteriorate the accuracy of our solutions.

The principle concept of the SSL method is to determine the source's hypocenter by tracing back the corresponding ray path. The first step of our analysis is to pick a short time window that contains *P* arrival, on the vertical component seismogram. Cross correlation functions are then calculated respectively between the vertical component and the two horizontal components. The ratio between the two cross correlation functions is used to estimate the back azimuth (i.e., the direction from the station to the source). The incident angle is subsequently estimated from the ratio between the cross

correlation between the radial and vertical components and the auto-correlation of the vertical component. Finally, the ray path is traced backward from the recording station toward the source based on an assumed velocity model and the hypocenter is located at the point that satisfies the travel time difference between the identified *S* and *P* phases. Readers are referred to the original paper (Roberts et al., 1989) and the user manual for the Seismic Analysis software package (SEISAN, Ottemöller et al., 2012) for more technical details.

3. Parameters in the Earthquake Catalog and Pick Files

We were able to identify and locate 24 earthquakes in the HRB within 100 km of station FNBB for the time period of July 2002 – June 2003 (Figure 1) and 338 events between December 2006 and the end of 2011 (Figure 2). For the expanded two months, only one event was located in November 2006. There was no event within 100 km of FNBB in January 2012.

The earthquake catalog is given in Table 1 (from 1 July 2002 to 30 June 2003) and Table 2 (from 1 November 2006 to 31 January 2012). Each line corresponds to one event showing the date, origin time, latitude, longitude, depth, root-mean-square error (RMS) and magnitude (coda magnitude, MC; local magnitude, ML). The RMS value is set to 0 if only one station is used in the location process.

Phase picks and location parameters of events listed in Tables 1 and 2 are included in Appendices 1 and 2, respectively. The following abbreviations are used in the pick files:

STAT: Seismic station code

SP: Instrument Type - Component

IPHASW: Quality Indicator - Phase ID - Weighting indicator

D: First Motion

HRMM: Hour-Minutes

SECON: Seconds

CODA: Duration (s)

AMPLIT: Amplitude (nm)

PERI: Period (s)

AZIMU: Direction of Approach (Degrees)

VELO: Phase Velocity (km/s)

SNR: Signal to Noise Ratio

AR: Azimuth Residual

TRES: Travel time Residual

W; Weight

DIS: Epicentral Distance (km)

CAZ: Azimuth at source

More information about the location parameters and abbreviations can be obtained from the SEISAN manual that is available online at: http://seisan.info.

Acknowledgement

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References

British Columbia Oil and Gas Commission Report 2012. Investigation of observed seismicity in the Horn River Basin. www.bcogc.ca/node/8046/download?documentID=1270.

Farahbod, A. M., Cassidy, J. F., Kao, H. and Walker, D. M. 2014. Collaborative Studies of Regional Seismicity in Northeast British Columbia. CSEG Recorder, **39**, No. 9, 40-44.

Farahbod, A. M., Kao, H., Walker, D. M. and Cassidy, J. F. 2015a. Investigation of Regional Seismicity before and after Hydraulic Fracturing in the Horn River Basin, Northeast British Columbia. Can. J. Earth Sci. **52**, No. 2, 112–122, doi: 10.1139/cjes-2014-0162 .

Farahbod, A. M., Kao, H., Walker, D. M. and Cassidy, J. F. 2015b. How did hydraulic-fracturing operations in the Horn River Basin change seismicity patterns in northeastern British Columbia, Canada?. The Leading Edge 34, 658-663, doi: 10.1190/tle34060658.1.

Ottemöller, L., Voss, P. and Havskov, J. 2012. SEISAN EARTHQUAKE ANALYSIS SOFTWARE, University of Bergen.

Roberts, R. G., Christoffersson, A. and Cassidy, F. 1989. Real-time event detection, phase identification and source location estimation using single station three-component seismic data. Geophysical Journal International, **97**, 471-480.

U.S. Department of Energy. 2011. World shale gas resources: an initial assess- ment of 14 regions outside the United States. U.S. Energy Information Admin- istration Report. Available from http://www.marcellus.psu.edu/resources/ PDFs/WorldShaleGas_USEIA.pdf.

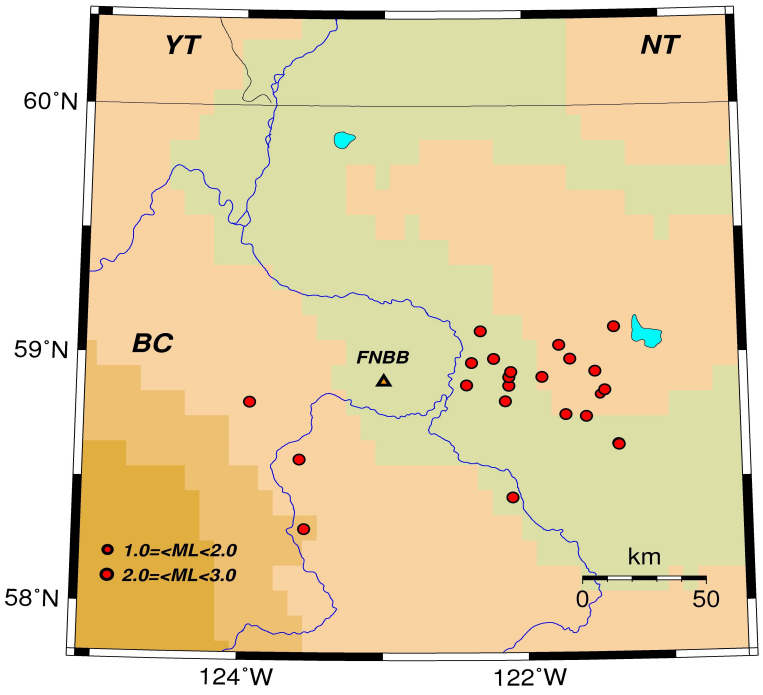

Figure 1: Distribution of local seismicity within 100 km of station FNBB from 1 July 2002 to 30 June 2003.

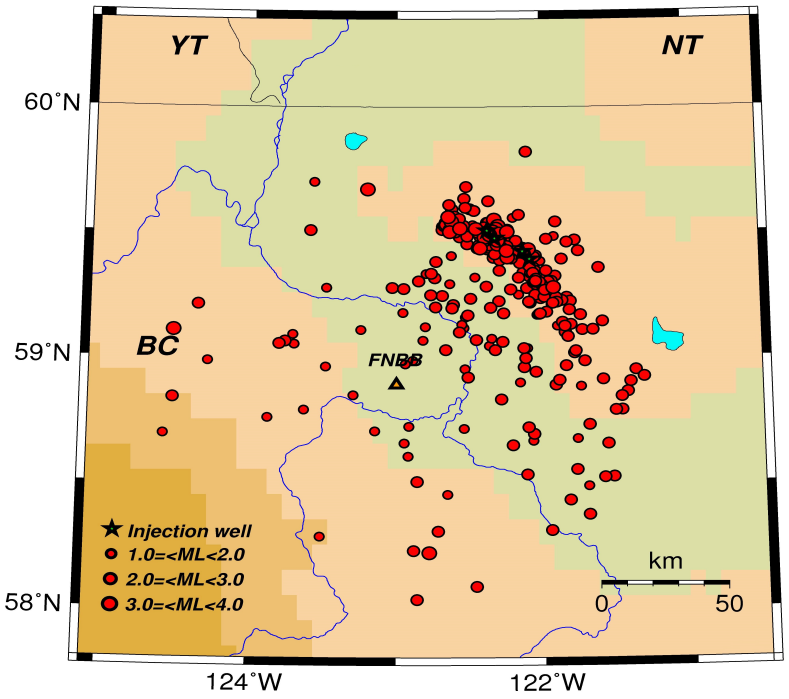

Figure 2: Distribution of local seismicity within 100 km of station FNBB from 1 November 2006 to 31 January 2012, after the shale gas development in the HRB started. Stars mark the locations of HF injection wells.

Table 1. Source parameters of located events (from July 2002 until the end of June 2003).

No.	Year	Month	Day	Hr	Min	Sec	Lat. (°N)	Long. (°E)	Depth (km)	RMS (s)	Magnitude	
1	2002	7	11	3	56	43.9	58.874	-122.120	10	0.7	2.3MC	2.3ML
2	2002	7	17	2	28	41.5	58.749	-121.579	10	0.4	2.5MC	2.6ML
3	2002	8	30	6	14	38.8	58.909	-122.119	10	0.2	2.0MC	1.9ML
4	2002	9	18	4	22	25.3	58.982	-122.224	10	0.4	2.2MC	2.1ML
5	2002	9	24	9	08	57.3	58.929	-122.104	10	0.4	2.5MC	2.4ML
6	2002	10	4	14	21	24.2	58.425	-122.100	10	0.1	2.3MC	2.4ML
7	2002	10	20	1	42	17.5	58.757	-121.721	10	0.7	2.2MC	2.1ML
8	2002	10	22	11	51	2.2	58.807	-123.939	10	0.2	2.2MC	2.3ML
9	2002	10	24	3	47	25.1	58.980	-121.688	10	0.1	2.0MC	1.9ML
10	2002	11	1	3	15	42.2	58.576	-123.587	10	0.4	2.3MC	2.2ML
11	2002	11	12	20	06	27.2	58.908	-121.886	10	0.8	2.5MC	2.4ML
12	2002	11	16	12	01	50.6	59.036	-121.765	10	0	1.8MC	2.0ML
13	2002	12	1	10	04	32	58.930	-121.513	10	0.4	2.2MC	2.2ML
14	2002	12	24	14	36	30.3	58.877	-122.416	10	0	1.8MC	1.8ML
15	2002	12	31	22	48	47.9	58.811	-122.144	10	0.1	2.0MC	2.1ML
16	2003	1	20	3	09	16.3	59.094	-122.317	10	0.6	2.4MC	2.3ML

17	2003	2 6	449	52.1	58.967	-122.381	10	0.5	2.4MC	2.3ML
18	2003	324	727	24	58.297	-123.551	10	0	-	2.1ML
19	2003	5 6	257	2.7	58.637	-121.355	10	0.4	2.0MC	2.0ML
20	2003	510	636	19	58.635	-121.353	10	0.1	2.2MC	2.2ML
21	2003	527	1500	41.1	58.837	-121.478	10	0.3	2.9MC	2.8ML
22	2003	527	1521	43.8	58.837	-121.478	10	0.3	2.0MC	2.0ML
23	2003	6 3	1027	51.4	58.854	-121.445	10	0.5	2.8MC	2.9ML
24	2003	6 3	1047	20.5	59.107	-121.374	10	0.2	2.3MC	2.1ML

Table 2. Source parameters of located events (from November 2006 until January 2012).

No.	Year	Month Day	Hr Min	Sec	Lat. (°N)	Long. (°E)	Depth (km)	RMS (s)	Magnitude	
1	2006	1120	535	57.6	59.230	-122.871	10	0	1.8MC	1.8ML
2	2006	1213	1145	21.1	59.539	-122.323	10	0.1	2.2MC	2.3ML
3	2006	1224	1432	31.6	59.462	-122.303	10	0.4	2.3MC	2.3ML
4	2006	1230	2243	52.1	59.441	-122.229	10	0.5	2.5MC	2.4ML
5	2007	1 2	1345	5.9	58.899	-122.153	10	0	1.7MC	1.8ML
6	2007	110	1827	40.7	59.436	-122.372	10	0	1.7MC	1.6ML
7	2007	111	2044	5	59.245	-122.686	10	0.5	2.1MC	2.2ML
8	2007	113	1945	55.2	59.208	-121.892	10	0	2.0MC	2.2ML
9	2007	115	1828	11.6	58.960	-122.127	10	0	1.9MC	2.1ML
10	2007	117	954	26.9	58.996	-122.115	10	0	1.9MC	2.0ML
11	2007	123	1143	25.9	59.235	-122.010	10	0.3	2.3MC	2.1ML
12	2007	2 8	723	39.2	59.180	-121.970	10	0.8	2.6MC	2.6ML
13	2007	312	1907	53.3	59.200	-122.733	10	0.2	-	2.5ML
14	2007	327	1215	36	59.059	-123.660	10	0	1.5MC	1.6ML
15	2007	327	1222	20.6	59.175	-122.265	10	0.1	2.3MC	2.5ML
16	2007	4 1	301	12	58.451	-122.652	10	0	2.0MC	1.9ML
17	2007	411	1022	9.5	59.394	-122.086	10	0	-	1.5ML
18	2007	411	1039	30.6	59.474	-122.343	10	0.1	2.4MC	2.3ML
19	2007	415	420	56.3	59.452	-122.193	10	0.5	2.7MC	2.9ML
20	2007	424	832	58.4	59.210	-124.362	10	0	2.0MC	2.0ML
21	2007	511	2109	6.3	58.950	-121.362	10	0.1	-	2.3ML
22	2007	511	2146	15.7	59.467	-121.774	10	0.3	2.4MC	2.5ML
23	2007	523	827	28	58.889	-121.910	10	0.7	2.3MC	2.2ML
24	2007	6 2	553	31.1	59.159	-122.528	10	0	1.5MC	1.4ML
25	2007	6 3	831	58.4	58.693	-124.583	10	0	-	1.9ML
26	2007	622	2229	30.6	59.277	-123.481	10	0	2.0MC	1.9ML
27	2007	628	2056	42	59.036	-122.128	10	0	-	2.0ML
28	2007	729	2244	37.7	59.467	-122.356	10	0	2.1MC	1.9ML
29	2007	828	130	41.1	59.316	-122.737	10	0.3	2.2MC	2.3ML
30	2007	9 5	1430	31.5	58.674	-121.768	10	0	1.9MC	1.9ML
31	2007	9 9	2112	54	58.953	-122.532	10	0	1.8MC	1.8ML
32	2007	916	2050	29.4	59.092	-123.710	10	0	1.7MC	1.6ML
33	2007	917	602	39.1	59.065	-123.762	10	0	2.1MC	2.3ML
34	2007	10 3	1409	20.8	58.372	-121.693	10	3.1	2.6MC	2.7ML
35	2007	10 3	1943	26.5	58.604	-122.920	10	0	1.5MC	1.5ML
36	2007	10 8	1719	45.5	59.275	-122.104	10	0.8	2.6MC	2.6ML
37	2007	1011	2222	28.1	58.838	-124.525	10	0.4	2.2MC	2.3ML
38	2007	1011	2252	56.7	59.436	-122.131	10	0	1.8MC	1.9ML
39	2007	11 7	1346	30.1	58.705	-123.145	10	0	1.6MC	1.3ML
40	2007	1123	716	25.9	58.083	-122.458	10	0	2.1MC	2.1ML
41	2007	1212	1742	1.5	59.062	-122.272	10	0.6	2.3MC	2.2ML

42	2007	1212	1753	59.3	59.408	-122.102	10	0	1.9MC	2.0ML
43	2007	1219	1236	59	59.680	-122.520	10	0.7	2.3MC	2.1ML
44	2008	1 1	111	35.2	59.036	-122.102	10	0	1.8MC	1.9ML
45	2008	1 6	1703	54.8	59.383	-122.013	10	0	2.0MC	2.1ML
46	2008	1 8	25	12.2	59.363	-122.071	10	0	1.9MC	1.8ML
47	2008	110	838	32.4	59.321	-122.083	10	0	2.1MC	2.1ML
48	2008	118	1154	23.8	59.325	-121.909	10	0.2	2.1MC	2.3ML
49	2008	2 8	718	6	59.492	-122.342	10	0.2	2.6MC	2.5ML
50	2008	210	47	28.9	59.399	-122.199	10	0.4	2.1MC	2.3ML
51	2008	217	2357	50.6	59.297	-122.057	10	0.2	2.3MC	2.2ML
52	2008	221	527	37	59.250	-122.003	10	0.5	2.3MC	2.3ML
53	2008	222	1539	34.4	58.985	-124.289	10	0	1.9MC	1.8ML
54	2008	229	1018	47.8	59.700	-123.574	10	1.5	2.2MC	2.2ML
55	2008	229	1046	7.5	59.173	-122.018	10	0	1.8MC	1.8ML
56	2008	3 1	1858	50.1	59.224	-122.296	10	0.6	2.4MC	2.5ML
57	2008	3 4	143	12.2	59.304	-121.988	10	0	2.1MC	2.0ML
58	2008	3 6	909	19.3	59.507	-123.597	10	0.1	2.1MC	2.2ML
59	2008	3 8	1115	23.6	58.648	-122.206	10	0.1	2.2MC	2.3ML
60	2008	310	506	20.1	58.831	-122.284	10	0	1.8MC	2.0ML
61	2008	316	1335	38	59.339	-122.135	10	0	2.1MC	1.9ML
62	2008	324	16	50.4	59.480	-122.564	10	0.8	2.1MC	2.3ML
63	2008	324	350	13.8	59.289	-121.981	10	0.9	2.2MC	2.0ML
64	2008	325	131	39.4	58.032	-122.857	10	0	2.1MC	2.1ML
65	2008	326	1146	18.8	59.239	-121.831	10	0	-	2.6ML
66	2008	329	2112	57.3	58.227	-122.880	10	1.3	2.3MC	2.3ML
67	2008	330	547	28.5	59.319	-122.461	10	0	1.8MC	1.7ML
68	2008	4 6	729	41.5	59.336	-122.074	10	0	2.1MC	2.0ML
69	2008	423	137	34.4	58.922	-121.310	10	0.4	2.2MC	2.1ML
70	2008	430	1513	50.6	59.211	-121.937	10	0	2.1MC	1.9ML
71	2008	5 5	37	6.1	59.243	-121.948	10	0	1.9MC	1.8ML
72	2008	5 7	1119	11.2	59.276	-122.018	10	0	2.1MC	1.9ML
73	2008	5 8	2331	15.7	59.422	-122.249	10	1.3	2.7MC	2.6ML
74	2008	6 5	925	29.8	58.485	-121.696	10	0	1.8MC	1.6ML
75	2008	6 5	943	16.2	58.731	-121.684	10	0	2.1MC	2.1ML
76	2008	6 7	1325	53.1	58.986	-122.887	10	0	1.1MC	1.0ML
77	2008	7 5	1302	31.4	59.046	-122.365	10	0.7	1.7MC	1.7ML
78	2008	7 9	1237	43.6	59.074	-122.347	10	0	1.8MC	1.9ML
79	2008	714	1443	9.4	59.403	-122.189	10	0.2	2.1MC	2.2ML
80	2008	715	654	14.2	59.124	-121.897	10	0	1.7MC	1.5ML
81	2008	718	1405	26.4	59.459	-122.250	10	0.3	2.2MC	2.1ML
82	2008	730	1031	48	59.304	-121.934	10	0.2	2.2MC	2.3ML
83	2008	8 5	838	52.6	59.053	-123.701	10	0	1.4MC	1.4ML
84	2008	811	747	44.4	59.425	-122.171	10	0.5	2.3MC	2.2ML
85	2008	816	411	31.5	59.099	-121.842	10	0	2.1MC	2.1ML

86	2008	822	1110	0.9	58.759	-123.878	10	0	1.8MC	1.8ML
87	2008	827	533	9.8	59.225	-121.884	10	0.1	2.3MC	2.4ML
88	2008	9 1	436	47.6	59.359	-122.049	10	0	1.8MC	1.7ML
89	2008	9 5	1522	5.9	58.693	-122.063	10	0	2.3MC	2.2ML
90	2008	912	137	4.3	58.848	-123.294	10	0	1.7MC	1.9ML
91	2008	916	944	34.9	58.883	-121.738	10	0.3	2.0MC	1.8ML
92	2008	918	1206	25.2	59.392	-121.864	10	3.1	2.7MC	2.9ML
93	2008	922	741	26.1	59.670	-123.201	24.5	0.2	2.8MC	3.0ML
94	2008	10 1	631	35.3	58.714	-122.538	10	0	1.9MC	1.9ML
95	2008	10 9	1802	46.3	58.283	-123.513	10	0	2.0MC	1.9ML
96	2008	1027	2132	56.4	59.224	-121.806	10	0.1	2.4MC	2.5ML
97	2008	1030	203	47.6	58.665	-122.067	10	0	1.9MC	1.9ML
98	2008	11 6	1032	22.6	58.790	-123.630	10	0	1.3MC	1.3ML
99	2008	1119	832	29.6	59.294	-121.975	10	0	1.9MC	1.7ML
100	2008	12 3	1119	20	59.227	-121.865	10	0.5	2.0MC	2.2ML
101	2008	12 3	1144	32.3	59.472	-121.969	10	0.3	2.3MC	2.4ML
102	2008	1214	2039	11.6	58.429	-121.823	10	0	-	2.1ML
103	2008	1214	2055	49.6	59.405	-122.624	10	0	1.7MC	1.9ML
104	2008	1218	657	1.1	59.363	-122.066	10	0	2.0MC	1.7ML
105	2008	1228	1339	51.7	59.169	-121.738	10	0.4	2.4MC	2.5ML
106	2008	1228	2148	32.1	59.110	-121.727	10	0.2	2.3MC	2.4ML
107	2009	1 5	1106	21.8	59.249	-122.048	10	0.3	2.3MC	2.4ML
108	2009	122	19	10.8	59.333	-122.797	10	0	1.8MC	2.0ML
109	2009	2 1	942	41.9	58.912	-121.588	10	0.1	2.3MC	2.1ML
110	2009	222	1433	38.8	59.590	-122.619	10	0.2	2.5MC	2.3ML
111	2009	228	45	19.6	59.409	-122.212	10	0.6	2.5MC	2.3ML
112	2009	320	701	42.3	59.100	-122.567	10	0	2.0MC	2.0ML
113	2009	328	2242	55.3	59.139	-121.861	10	0	2.1MC	2.2ML
114	2009	331	1540	39.8	59.471	-122.285	10	0.3	2.2MC	2.3ML
115	2009	4 5	947	26	59.358	-122.062	10	0.2	2.6MC	2.4ML
116	2009	4 8	2127	37.7	59.403	-122.057	6.2	0.1	2.3MC	2.4ML
117	2009	4 8	2130	23.6	59.310	-121.982	10	0	2.3MC	2.3ML
118	2009	4 9	1634	1.5	59.345	-122.047	6.5	0.2	2.2MC	2.3ML
119	2009	414	312	33.2	59.732	-122.445	10	0.2	2.4MC	2.5ML
120	2009	414	1717	42.9	59.406	-122.043	10	0.4	2.2MC	2.1ML
121	2009	416	1922	43.2	59.069	-122.451	10	0.2	2.4MC	2.4ML
122	2009	418	2338	10.3	59.249	-121.923	10	0	2.4MC	2.5ML
123	2009	421	1007	48.2	59.143	-121.589	10	0.1	2.5MC	2.4ML
124	2009	424	2313	53.4	59.210	-122.611	10	0	2.0MC	2.1ML
125	2009	5 1	1307	32.4	59.218	-122.083	10	0.3	2.4MC	2.5ML
126	2009	5 9	1944	36.9	59.291	-122.041	13.7	0.1	2.9MC	2.8ML
127	2009	611	142	34	59.222	-122.091	10	0.3	-	2.2ML
128	2009	615	2156	10	59.396	-122.105	10	0	2.0MC	2.2ML
129	2009	616	12	17.8	59.304	-122.847	10	0	1.9MC	2.0ML

130	2009	716	638	24.6	59.277	-123.029	10	0	1.8MC	2.0ML
131	2009	725	1141	20.3	59.116	-122.539	10	0	1.4MC	1.4ML
132	2009	729	1503	12.5	59.334	-122.761	10	0	-	2.1ML
133	2009	815	1055	8.5	59.130	-122.552	10	0	1.7MC	1.8ML
134	2009	822	1327	12.9	59.067	-122.818	10	0	1.4MC	1.7ML
135	2009	823	2313	23.6	59.177	-122.957	10	0	2.1MC	1.8ML
136	2009	824	535	51.2	59.292	-122.635	10	0	1.8MC	1.9ML
137	2009	827	2019	17.8	59.121	-122.801	10	0	1.7MC	1.6ML
138	2009	911	857	34	59.029	-122.324	10	0.2	2.2MC	2.1ML
139	2009	1010	852	21.3	58.720	-122.099	10	0.5	2.2MC	2.2ML
140	2009	1010	2132	59.5	59.381	-122.730	10	0.6	2.7MC	2.8ML
141	2009	1020	710	10.7	59.030	-122.662	10	0.1	2.2MC	2.2ML
142	2009	1023	2007	20.1	59.259	-121.943	10	0	2.1MC	2.1ML
143	2009	1121	425	3	58.789	-121.463	10	1.2	2.7MC	2.7ML
144	2009	1124	534	45.8	59.425	-121.749	10	2.2	2.3MC	2.1ML
145	2009	12 9	2334	46.6	59.106	-124.526	19.7	0.7	3.1MC	3.1ML
146	2009	1218	336	37.3	59.297	-121.966	10	0.3	2.6MC	2.7ML
147	2009	1224	32	36.4	59.541	-121.904	10	4	2.7MC	2.9ML
148	2009	1224	2109	53.1	58.902	-121.401	10	1	2.3MC	2.2ML
149	2009	1228	21	51.8	59.279	-121.922	10	2.7	3.0MC	3.0ML
150	2009	1228	813	57.3	59.244	-121.959	10	2.1	2.4MC	2.2ML
151	2010	117	614	28.3	58.985	-121.712	10	4.8	-	2.5ML
152	2010	220	1156	55.1	59.509	-122.235	10	0.7	2.4MC	2.4ML
153	2010	3 6	1340	7.9	58.523	-121.526	10	2.3	2.5MC	2.4ML
154	2010	3 8	957	45	58.863	-121.421	10	2	2.7MC	2.6ML
155	2010	313	1256	16.9	58.655	-121.561	10	1.8	2.3MC	2.3ML
156	2010	313	2150	7.2	58.308	-121.949	10	0	2.6MC	2.5ML
157	2010	330	112	23	59.356	-121.610	10	2.9	2.6MC	2.7ML
158	2010	424	2243	8.8	58.908	-121.885	10	0	2.0MC	2.0ML
159	2010	426	2333	52.3	59.169	-122.035	10	0	1.9MC	1.9ML
160	2010	429	1529	5.4	58.657	-122.947	10	0	2.0MC	1.9ML
161	2010	430	1245	49.1	59.489	-122.318	10	0	1.8MC	1.7ML
162	2010	5 8	2012	16.3	58.723	-122.915	10	0	1.9MC	1.9ML
163	2010	517	2212	14.6	58.551	-121.774	10	2	2.7MC	2.6ML
164	2010	530	2137	19	59.250	-122.160	10	0	1.7MC	1.7ML
165	2010	6 5	530	57.9	59.421	-122.158	10	4.1	2.7MC	2.8ML
166	2010	6 7	1937	55	59.592	-122.495	10	0.5	-	2.2ML
167	2010	6 7	1938	26.4	59.585	-122.467	10	0.3	2.6MC	2.6ML
168	2010	6 7	2016	15.5	59.537	-122.377	10	0.2	2.3MC	2.3ML
169	2010	6 8	644	49.3	59.455	-122.317	10	0.1	2.2MC	2.1ML
170	2010	6 9	824	46.2	59.452	-122.515	10	0.5	2.3MC	2.3ML
171	2010	611	2225	17.6	59.550	-122.328	12.3	0.3	3.4MC	3.5ML
172	2010	612	1254	26.9	59.397	-122.332	10	0	-	2.0ML
173	2010	616	107	35.8	59.435	-122.443	10	0.4	2.3MC	2.3ML

174	2010	625	2247	31.3	59.431	-122.373	10	0	2.4MC	2.4ML
175	2010	719	534	46.8	59.479	-122.421	14	0.2	2.7MC	2.7ML
176	2010	725	1304	53.4	59.110	-121.653	10	2.7	2.8MC	2.8ML
177	2010	726	2340	54.4	59.608	-122.638	10	0.8	2.0MC	2.0ML
178	2010	8 3	2015	35.8	59.410	-122.312	10	0.3	2.7MC	2.7ML
179	2010	8 5	1912	10.5	59.054	-123.803	10	0	2.3MC	2.4ML
180	2010	822	930	21.9	59.396	-122.251	10	0.5	2.4MC	2.5ML
181	2010	826	1517	47.1	59.459	-121.828	10	4.1	2.4MC	2.5ML
182	2010	9 4	904	25.5	59.400	-122.054	10	0.1	2.5MC	2.5ML
183	2010	9 7	557	29.4	59.544	-122.589	10	1.2	2.6MC	2.5ML
184	2010	9 7	1139	34.6	59.346	-122.292	10	0.4	2.3MC	2.3ML
185	2010	916	206	55.7	58.304	-122.715	10	0	2.4MC	2.4ML
186	2010	918	2201	16.6	59.195	-122.618	10	1.6	-	2.1ML
187	2010	923	534	36.1	59.520	-122.563	10	2.2	2.8MC	2.9ML
188	2010	923	1720	19.3	59.282	-122.383	10	0.3	2.4MC	2.5ML
189	2010	926	1832	59.7	59.387	-122.289	10	0.2	2.1MC	2.2ML
190	2010	927	1622	49.2	59.168	-122.510	10	0.6	2.4MC	2.5ML
191	2010	930	35	3.4	59.234	-122.490	10	0	2.1MC	2.2ML
192	2010	930	1231	43.4	59.445	-122.365	11.9	0	2.9MC	2.9ML
193	2010	930	1233	35.7	59.451	-122.360	8.4	0.2	3.1MC	3.1ML
194	2010	930	1625	52.1	59.438	-122.368	14	0.1	2.8MC	2.8ML
195	2010	10 3	806	50	59.524	-122.299	12.7	0.1	3.4MC	3.5ML
196	2010	10 4	1109	33.5	59.501	-122.300	11.3	0.1	2.9MC	2.9ML
197	2010	10 5	1330	28.8	59.490	-122.338	13.1	0.1	3.0MC	3.1ML
198	2010	10 5	2201	13.5	59.514	-122.314	12.9	0.6	3.5MC	3.6ML
199	2010	10 9	1000	31.2	59.489	-122.293	9.1	0.1	3.1MC	3.1ML
200	2010	1012	1709	41.6	59.398	-122.238	9.1	0.1	3.3MC	3.4ML
201	2010	1012	1919	44.6	59.450	-122.305	7.3	0	3.0MC	3.0ML
202	2010	1012	2101	11.2	59.465	-122.304	12.2	0.1	3.3MC	3.4ML
203	2010	11 2	1818	36.4	58.503	-122.857	10	0.3	-	2.0ML
204	2010	1116	916	16.7	59.474	-122.343	10	0	-	1.6ML
205	2010	1119	411	20.4	59.109	-123.245	10	0	-	1.9ML
206	2010	12 5	858	37.7	59.634	-122.534	29.5	0	2.6MC	2.7ML
207	2010	1214	1438	50.4	59.539	-122.366	11.3	0	-	2.3ML
208	2010	1230	1209	4.9	58.966	-121.839	10	0.5	-	2.4ML
209	2011	1 9	342	22.6	59.484	-122.377	10	0.1	-	2.6ML
210	2011	1 9	348	34.2	59.556	-122.199	10	0	-	1.9ML
211	2011	127	111	56.3	59.439	-122.242	10	0.1	2.2MC	2.2ML
212	2011	129	1249	40.6	58.843	-121.462	10	2.4	2.6MC	2.6ML
213	2011	2 4	427	42.7	59.174	-122.015	10	0	-	2.1ML
214	2011	210	1313	12.7	58.521	-121.587	10	1.8	2.5MC	2.6ML
215	2011	215	730	29.2	59.454	-122.329	10	0	-	2.3ML
216	2011	222	1003	29.2	59.345	-121.973	10	0.1	2.5MC	2.4ML
217	2011	222	1420	40.5	59.189	-121.813	10	3.8	2.9MC	2.9ML

218	2011	223	2224	32.1	59.623	-122.368	10	0.7	2.3MC	2.5ML
219	2011	3 3	1201	4.5	59.273	-122.951	10	0.4	2.3MC	2.5ML
220	2011	3 4	306	12.8	59.428	-122.426	10	0	1.8MC	1.9ML
221	2011	3 4	309	4.8	59.424	-122.241	11.3	0.2	3.3MC	3.3ML
222	2011	3 5	1415	1.5	59.317	-122.161	10	1.3	-	2.5ML
223	2011	3 8	1053	54.8	59.505	-122.401	10	0.3	-	2.4ML
224	2011	312	50	25.2	59.482	-121.918	10	0.6	2.0MC	2.1ML
225	2011	324	1927	9.9	59.475	-122.386	19.2	1.4	2.5MC	2.5ML
226	2011	324	1931	52.6	59.465	-122.178	10	0.4	2.1MC	2.2ML
227	2011	4 3	1418	52.4	58.532	-122.110	10	0.5	2.2MC	2.3ML
228	2011	4 7	1219	18	59.484	-122.325	13.4	0.3	3.3MC	3.2ML
229	2011	4 8	1851	37.2	59.198	-122.353	10	0.3	2.4MC	2.4ML
230	2011	4 9	1308	58.8	59.509	-122.658	10	1.2	2.6MC	2.6ML
231	2011	411	1152	44.7	59.440	-122.403	10	1	2.4MC	2.3ML
232	2011	411	1803	24.6	59.461	-122.402	10	0.7	2.5MC	2.5ML
233	2011	414	319	7.2	59.496	-122.348	10	0.9	2.2MC	2.2ML
234	2011	415	2158	39.8	58.941	-122.045	10	0	2.1MC	2.1ML
235	2011	422	1535	21.8	59.444	-122.240	10	0	2.1MC	2.1ML
236	2011	428	2234	49.3	59.474	-122.338	8.1	0.2	2.5MC	2.6ML
237	2011	430	1327	28	59.507	-122.356	11.9	0.3	3.1MC	3.1ML
238	2011	5 3	1256	28.3	59.503	-122.337	10	0.3	3.2MC	3.2ML
239	2011	5 4	551	23.4	59.447	-122.400	10	0	2.0MC	2.0ML
240	2011	5 9	2248	28.3	59.469	-122.327	10	0.4	2.3MC	2.2ML
241	2011	510	1416	2.4	59.497	-122.368	11.7	0.5	3.5MC	3.5ML
242	2011	511	2224	47.6	59.512	-122.305	10	0.3	2.6MC	2.6ML
243	2011	511	2225	44.8	59.511	-122.325	10	0	-	2.3ML
244	2011	514	525	37	59.471	-122.327	10	0	-	1.6ML
245	2011	514	530	9.9	59.474	-122.380	10	0.2	2.6MC	2.6ML
246	2011	515	158	27	59.544	-122.609	10	0.2	2.3MC	2.3ML
247	2011	518	1416	40.7	59.489	-122.335	10	0.3	2.8MC	2.8ML
248	2011	519	1305	13.4	59.478	-122.393	10	0.2	3.6MC	3.6ML
249	2011	519	1310	50.9	59.446	-122.434	11.8	0.4	2.9MC	2.9ML
250	2011	519	1313	42	59.435	-122.424	13.1	0.3	3.3MC	3.3ML
251	2011	520	619	17.6	59.449	-122.408	10	0.1	2.3MC	2.4ML
252	2011	520	622	32.9	59.513	-122.452	10	0.4	3.0MC	3.0ML
253	2011	520	654	38.5	59.493	-122.394	10	0.3	2.2MC	2.2ML
254	2011	520	738	41.3	59.820	-122.102	10	1.3	-	2.3ML
255	2011	520	1854	53.7	59.363	-122.085	10	1.6	2.3MC	2.2ML
256	2011	529	809	45.9	59.494	-122.293	10	0.2	3.1MC	3.1ML
257	2011	6 7	1046	44.6	59.439	-122.281	10	0.6	2.5MC	2.5ML
258	2011	618	2302	44.5	59.528	-122.476	10	0	1.9MC	2.0ML
259	2011	623	1044	54.2	59.469	-122.394	10	0.8	2.4MC	2.4ML
260	2011	625	449	18.1	59.520	-122.397	10	0.4	2.6MC	2.6ML
261	2011	626	1317	1.6	59.504	-122.375	10	0.5	2.8MC	2.8ML

262	2011	7 1	932	46.4	59.507	-122.332	17.3	0	2.7MC	2.7ML
263	2011	7 3	1614	32.8	59.407	-122.231	10	0.3	2.2MC	2.2ML
264	2011	7 5	1029	24.6	59.442	-122.279	10	0.4	2.2MC	2.2ML
265	2011	7 7	2246	35.5	59.501	-122.237	8.8	0.4	3.1MC	3.1ML
266	2011	714	947	22.6	59.131	-121.805	10	0	2.0MC	2.1ML
267	2011	714	1040	34	59.290	-122.040	10	0.5	2.8MC	2.8ML
268	2011	715	1613	29.6	59.238	-121.905	10	0.5	-	2.1ML
269	2011	715	1613	53.8	59.525	-122.537	10	0.3	2.2MC	2.3ML
270	2011	715	1859	10.3	59.281	-121.948	10	0.1	2.5MC	2.5ML
271	2011	715	2030	1.3	59.376	-122.151	10	0.3	2.5MC	2.5ML
272	2011	724	237	54.6	59.431	-122.091	22.9	0.3	3.2MC	3.2ML
273	2011	724	1743	2.3	59.337	-122.062	10	0.1	2.3MC	2.3ML
274	2011	724	1747	54.6	59.221	-121.899	10	0.1	2.3MC	2.4ML
275	2011	727	300	26.8	59.483	-122.514	10	0.1	2.2MC	2.1ML
276	2011	727	408	18.5	59.240	-121.984	10	0.4	2.6MC	2.6ML
277	2011	728	15	48.6	59.017	-121.780	10	0.1	2.2MC	2.1ML
278	2011	728	338	11.3	59.313	-122.040	10	0.2	2.5MC	2.4ML
279	2011	728	417	12.6	59.216	-121.925	10	0.1	2.1MC	2.2ML
280	2011	728	2218	32.4	59.498	-122.440	11.5	0.3	2.8MC	2.8ML
281	2011	731	841	6.1	59.292	-121.983	10	0.1	2.3MC	2.3ML
282	2011	731	934	2.5	59.487	-122.358	8.8	0	2.9MC	3.1ML
283	2011	731	1532	39.8	59.303	-121.958	10	0.2	2.3MC	2.1ML
284	2011	8 1	858	8.7	59.291	-122.004	10	0.3	2.3MC	2.4ML
285	2011	8 1	2217	35.8	59.300	-122.017	8.8	0.1	2.7MC	2.8ML
286	2011	8 1	2227	23.6	59.394	-122.210	10	0.2	2.3MC	2.3ML
287	2011	8 1	2236	25	59.300	-122.046	8.1	0	2.6MC	2.6ML
288	2011	8 1	2301	49.8	59.124	-121.844	10	0.3	2.2MC	2.2ML
289	2011	8 2	127	6.5	59.305	-122.043	7.6	0	2.9MC	2.9ML
290	2011	8 4	1648	44.8	59.025	-121.773	10	0.1	2.2MC	2.1ML
291	2011	8 5	613	2.6	59.268	-121.981	10	0.2	2.4MC	2.3ML
292	2011	8 6	843	48.7	59.488	-122.553	10	0	1.8MC	1.8ML
293	2011	811	2040	7.5	59.083	-121.826	10	0.6	2.5MC	2.5ML
294	2011	815	1037	43.8	58.973	-122.938	10	0	1.4MC	1.4ML
295	2011	815	1155	45.5	59.249	-122.764	10	0	2.0MC	2.0ML
296	2011	819	1148	19.1	59.271	-122.215	10	0	2.1MC	2.0ML
297	2011	9 8	1535	50.6	58.788	-121.505	10	0	-	2.2ML
298	2011	918	714	31	59.569	-122.157	10	0.2	-	2.2ML
299	2011	1030	1524	26.2	58.218	-122.775	8.2	0.5	-	3.1ML
300	2011	11 7	155	11.5	59.411	-122.324	10	0.4	2.1MC	2.2ML
301	2011	1119	2214	28.2	59.598	-122.526	10	0.1	2.4MC	2.5ML
302	2011	12 8	1528	40.3	59.563	-122.600	13.6	0.2	2.8MC	2.8ML
303	2011	12 9	1801	23.2	59.522	-122.681	9	0.3	2.6MC	2.6ML
304	2011	12 9	1807	4.9	59.532	-122.628	6.6	0.1	2.7MC	2.7ML
305	2011	1210	207	12.5	59.523	-122.621	10.8	0	-	2.7ML

306	2011	1210	207	57.3	59.509	-122.684	13.2	0.1	-	2.5ML
307	2011	1210	252	39.4	59.516	-122.632	13.2	0.1	-	2.9ML
308	2011	1210	1017	45.2	59.509	-122.614	16.9	0.1	2.6MC	2.7ML
309	2011	1210	1428	23.1	59.499	-122.596	17.2	0.1	2.7MC	2.7ML
310	2011	1210	1705	9.8	59.524	-122.671	10	0.3	2.5MC	2.4ML
311	2011	1210	2314	37.3	59.525	-122.614	6.5	0.3	2.8MC	2.9ML
312	2011	1211	237	57.6	59.542	-122.621	12.6	0.3	3.0MC	3.0ML
313	2011	1211	452	4.7	59.522	-122.644	10.2	0.3	3.0MC	2.9ML
314	2011	1211	642	20.2	59.529	-122.649	10	0.2	2.6MC	2.6ML
315	2011	1211	728	24.4	59.518	-122.632	10	0	2.5MC	2.6ML
316	2011	1211	916	1.9	59.533	-122.647	10	0.3	2.5MC	2.5ML
317	2011	1211	1719	59.1	59.517	-122.649	10	0.5	2.6MC	2.6ML
318	2011	1212	25	29	59.524	-122.672	17.7	0	2.7MC	2.8ML
319	2011	1212	152	36.2	59.521	-122.604	10	0	2.4MC	2.4ML
320	2011	1212	456	22.2	59.533	-122.583	7	0.2	2.8MC	2.8ML
321	2011	1212	602	6.1	59.528	-122.654	10	0	2.6MC	2.7ML
322	2011	1212	638	41.1	59.526	-122.606	10	0	2.6MC	2.6ML
323	2011	1212	759	28	59.501	-122.634	13.7	0.1	2.8MC	3.0ML
324	2011	1212	1134	20.5	59.519	-122.574	13.6	0	2.8MC	2.8ML
325	2011	1212	1309	50.3	59.520	-122.621	10	0.2	2.5MC	2.5ML
326	2011	1212	1637	38.1	59.553	-122.567	10	0.3	2.5MC	2.5ML
327	2011	1212	1940	37.4	59.505	-122.623	12.2	0.2	2.7MC	2.7ML
328	2011	1212	1955	42.2	59.522	-122.630	10	0.3	2.5MC	2.4ML
329	2011	1212	2010	7.2	59.512	-122.647	10.1	0.1	2.7MC	2.7ML
330	2011	1212	2034	23.5	59.511	-122.596	10	0.3	2.4MC	2.4ML
331	2011	1212	2334	16.7	59.514	-122.562	6.9	0	3.0MC	3.1ML
332	2011	1213	252	58.1	59.530	-122.634	10	0.2	2.4MC	2.4ML
333	2011	1213	1001	32.9	59.521	-122.635	10	0	2.5MC	2.5ML
334	2011	1213	1053	29.2	59.520	-122.580	10	0	2.7MC	2.7ML
335	2011	1213	1317	36.9	59.560	-122.645	6.5	0.2	3.1MC	3.1ML
336	2011	1213	1843	14.7	59.513	-122.596	9.9	0.2	2.7MC	2.7ML
337	2011	1213	2309	6	59.538	-122.662	12	0.2	2.5MC	2.5ML
338	2011	1214	2300	17.6	59.530	-122.664	10.5	0.1	2.8MC	2.8ML
339	2011	1216	2329	17.7	59.510	-122.637	11.5	0.1	2.7MC	2.7ML

Appendix1

Phase picks and location parameters (2002-2003)

```
 1- 2002  711 0356 43.9   58.874  -122.120 10.0  0.7 2.3MC 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       356 53.54   30              91.6  8.2      0  0.41 0 51.34 272
FNBB BN ESG       357  0.37                                    0.51 0 51.34 272
FNBB BN  AMP      357  4.17       229.1 0.44                          51.34 272
FNBB BE  AMP      357  6.30       209.0 0.29                          51.34 272
BMBC BZ EP        357 30.18                                   -1.11 0 315.0 180

 2- 2002  717 0228 41.5   58.749  -121.579 10.0  0.4 2.5MC 2.6ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       228 56.55   33             100.2 23.2      0  0.21 0 84.15 281
FNBB BE  AMP      228 58.97       216.5 0.62                          84.15 281
FNBB BN  AMP      229  0.31       299.9 0.45                          84.15 281
FNBB BN ESG       229  7.34                                    0.21 0 84.15 281
BMBC BZ EP        229 26.88                                   -0.51 0 302.9 187

 3- 2002  830 0614 38.8   58.909  -122.119 10.0  0.2 2.0MC 1.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       614 47.82   22              87.3  7.9      0 -0.21 0 51.38 268
FNBB BN ESG       614 54.65                                   -0.11 0 51.38 268
FNBB BN  AMP      615  2.56        95.7 1.03                          51.38 268
BMBC BZ EP        615 26.89                                    0.3  9 318.9 180

 4- 2002  918 0422 25.3   58.982  -122.224 10.0  0.4 2.2MC 2.1ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       422 34.02   27              77.0  7.5      0  0.31 0 46.38 258
FNBB BE  AMP      422 35.80       135.0 0.53                          46.38 258
FNBB BN  AMP      422 37.60       196.1 0.72                          46.38 258
FNBB BE ESG    D  422 40.15                                    0.31 0 46.38 258
BMBC BN ES        423 49.25                                   -0.6  9 327.1 179

 5- 2002  924 0908 57.3   58.929  -122.104 10.0  0.4 2.5MC 2.4ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ IPG       9 9  6.98   40              84.9 13.0      0  0.31 0 52.37 266
FNBB BE  AMP      9 9  8.33       209.3 0.58                          52.37 266
FNBB BN  AMP      9 9 10.09       428.9 0.62                          52.37 266
FNBB BN ISG       9 9 13.85                                    0.31 0 52.37 266
BMBC BE ES        910 19.97                                   -0.6  9 321.2 180

 6- 2002 10 4 1421 24.2   58.425  -122.100 10.0  0.1 2.3MC 2.4ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ IPG      1421 37.27   28             134.1 21.8      0  0.11 0 73.99 315
FNBB BE  AMP     1421 39.95       165.5 0.72                          73.99 315
FNBB BN  AMP     1421 40.85       178.1 0.87                          73.99 315
FNBB BE ISG      1421 46.81                                    0.11 0 73.99 315
BMBC BN ES       1422 35.23                                   -0.11 0 265.0 180

 7- 2002 1020 0142 17.5   58.757  -121.721 10.0  0.7 2.2MC 2.1ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ IPG       142 31.52   26             100.7 19.6      0  0.71 0 75.91 282
FNBB BE  AMP      142 35.05        69.4 0.76                          75.91 282
FNBB BN  AMP      142 35.50       142.0 0.72                          75.91 282
FNBB BE ISG       142 41.29                                    0.71 0 75.91 282
BMBC BZ EP        143  2.83                                   -0.51 0 303.0 185
BMBC BN ES        143 35.86                                   -1.01 0 303.0 185

 8- 2002 1022 1151  2.2   58.807  -123.939 10.0  0.2 2.2MC 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1151 12.02   26             260.6  5.8      0  0.11 0 54.45  80
FNBB BN  AMP     1151 15.81       349.0 0.44                          54.45  80
FNBB BE  AMP     1151 16.19       137.2 0.53                          54.45  80
FNBB BN ESG      1151 19.14                                    0.11 0 54.45  80
YKW3 BZ EP       1152 31.09                                   -0.5  7 654.3  47

 9- 2002 1024 0347 25.1   58.980  -121.688 10.0  0.1 2.0MC 1.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       347 38.61   20              82.0  7.7      0  0.01 0 76.76 263
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FNBB BN ESG       347 48.41                                    -0.11 0 76.76 263
FNBB BE  AMP      347 58.35        57.1 0.99                           76.76 263
FNBB BN  AMP      347 58.68        63.8 0.82                           76.76 263
BMBC BZ EP        348 14.23                                     0.1  9 327.9 185

10- 2002 11 1 0315 42.2   58.576  -123.587 10.0  0.4 2.3MC 2.2ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ IPG       315 51.22   31            223.9  6.2      0  0.31 0 48.42  43
FNBB BN ISG       315 57.61                                    0.31 0 48.42  43
FNBB BN  AMP      315 58.45       231.1 0.14                          48.42  43
FNBB BE  AMP      316  4.72       221.3 0.39                          48.42  43
BMBC BZ EP        316 26.83                                    -0.21 0 295.2 162
BMBC BN ES        316 59.93                                     0.11 0 295.2 162
FSB  EZ EP        316 46.61                                    -0.7  8 458.7 186

11- 2002 1112 2006 27.2   58.908  -121.886 10.0  0.8 2.5MC 2.4ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      20 6 39.15   36             87.8 10.2      0  0.41 0 64.80 269
FNBB BN  AMP     20 6 42.72       242.4 0.68                          64.80 269
FNBB BE ESG      20 6 47.55                                   0.41 0 64.80 269
FNBB BE  AMP     20 6 48.79       197.5 0.58                          64.80 269
FSB  EZ EP       20 7 38.08                                   -1.3  8 515.5 198

12- 2002 1116 1201 50.6   59.036  -121.765 10.0  0.0 1.8MC 2.0ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      12 2  3.54   16             76.7  6.7      0  0.01 0 73.43 258
FNBB BN ESG      12 2 13.03                                   0.01 0 73.43 258
FNBB BN  AMP     12 2 14.50        68.7 0.44                          73.43 258

13- 2002 12 1 1004 32.0   58.930  -121.513 10.0  0.4 2.2MC 2.2ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      10 4 46.84   23             86.4  9.8      0 -0.31 0 86.36 268
FNBB BN ESG      10 4 57.82                                  -0.41 0 86.36 268
FNBB BN  AMP     10 5  0.10        92.1 0.48                          86.36 268
FNBB BE  AMP     10 5  6.56        80.4 0.79                          86.36 268
BMBC BZ EP       10 5 20.90                                    0.5  9 323.4 187
FSB  EZ EP       10 5 45.97                                    0.6  8 524.9 200

14- 2002 1224 1436 30.3   58.877  -122.416 10.0  0.0 1.8MC 1.8ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1436 36.63   19             92.2  9.6      0  0.01 0 34.27 273
FNBB BN ESG      1436 41.29                                   0.01 0 34.27 273
FNBB BN  AMP     1436 45.30       112.4 0.15                          34.27 273

15- 2002 1231 2248 47.9   58.811  -122.144 10.0  0.1 2.0MC 2.1ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      2248 57.02   22             99.7  9.4      0  0.01 0 50.75 280
FNBB BE ESG      2249  3.77                                   0.11 0 50.75 280
FNBB BE  AMP     2249  7.38       145.3 0.33                          50.75 280
BMBC BZ EP       2249 34.27                                   -0.11 0 308.0 180

16- 2003  120 0309 16.3   59.094  -122.317 10.0  0.6 2.4MC 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       3 9 24.96   34             60.0  8.8      0  0.41 0 45.83 241
FNBB BE  AMP      3 9 26.59       214.0 0.53                          45.83 241
FNBB BN  AMP      3 9 28.05       308.2 0.61                          45.83 241
FNBB BN ESG       3 9 31.11                                    0.41 0 45.83 241
BMBC BN ES        310 42.62                                   -0.9  9 339.7 178

17- 2003  2 6 0449 52.1   58.967  -122.381 10.0  0.5 2.4MC 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       449 59.30   36             76.4  8.7      0  0.31 0 37.20 257
FNBB BE  AMP      450  0.94       291.5 0.61                          37.20 257
FNBB BN  AMP      450  2.91       543.3 0.55                          37.20 257
FNBB BN ESG       450  4.22                                    0.31 0 37.20 257
BMBC BN ES        451 15.66                                   -0.7  9 325.7 177

18- 2003  324 0727 24.0   58.297  -123.551 10.0  0.0 2.1ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       727 36.87                  205.7  7.2      0  0.01 0 73.15  25
FNBB BN ESG       727 46.30                                   0.01 0 73.15  25
FNBB BN  AMP      727 52.82        86.6 0.72                          73.15  25
FNBB BE  AMP      728 10.91        85.0 1.59                          73.15  25
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19- 2003 5 6 0257 2.7   58.637 -121.355 10.0 0.4 2.0MC 2.0ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
FNBB BZ EPG   257 20.41   18   105.7 6.5   0 0.31 0 99.83 287
FNBB BE AMP   257 27.68   40.4 0.38   99.83 287
FNBB BN AMP   257 32.70   45.9 0.25   99.83 287
FNBB BE ESG   257 33.04   0.21 0 99.83 287
BMBC BZ EP   257 46.64   -0.61 0 292.4 190

20- 2003 510 0636 19.0   58.635 -121.353 10.0 0.1 2.2MC 2.2ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
FNBB BZ EPG   636 36.59   24   105.8 8.1   0 0.11 0 100.0 287
FNBB BE ESG   636 49.34   0.11 0 100.0 287
FNBB BN AMP   636 52.84   82.9 0.56   100.0 287
FNBB BE AMP   636 52.86   58.9 0.55   100.0 287
BMBC BN ES   637 35.90   -0.21 0 292.2 190

21- 2003 527 1500 41.1   58.837 -121.478 10.0 0.3 2.9MC 2.8ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
FNBB BZ EPG   15 0 56.66   52   93.2 26.4   0 0.01 0 88.58 274
FNBB BN ISG   15 1 8.00   0.11 0 88.58 274
FNBB BE AMP   15 1 13.39   383.1 0.55   88.58 274
FNBB BN AMP   15 1 16.66   395.9 0.62   88.58 274
BMBC BN ES   15 2 2.28   -0.41 0 313.4 187
FSB EZ EP   15 1 53.74   0.4 8 515.9 201

22- 2003 527 1521 43.8   58.837 -121.478 10.0 0.3 2.0MC 2.0ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
FNBB BZ EPG   1521 59.09   19   93.2 8.9   0 -0.21 0 88.58 274
FNBB BE ESG   1522 10.45   -0.21 0 88.58 274
FNBB BN AMP   1522 12.44   49.5 0.41   88.58 274
FNBB BE AMP   1522 13.14   54.7 0.55   88.58 274
BMBC BZ EP   1522 31.40   0.51 0 313.4 187

23- 2003 6 3 1027 51.4   58.854 -121.445 10.0 0.5 2.8MC 2.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
FNBB BZ EPG   1028 6.77   45   91.9 7.8   0 -0.41 0 90.36 273
FNBB BE AMP   1028 8.26   355.8 0.62   90.36 273
FNBB BN AMP   1028 9.94   491.6 0.87   90.36 273
FNBB BN ESG   1028 18.39   -0.41 0 90.36 273
BMBC BN ES   1029 13.72   0.31 0 315.5 188
YKW3 BN ES   1030 4.75   0.9 8 551.1 40

24- 2003 6 3 1047 20.5   59.107 -121.374 10.0 0.2 2.3MC 2.1ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
FNBB BZ EPG   1047 37.24   25   74.9 8.5   0 -0.21 0 97.06 256
FNBB BN ESG   1047 49.70   -0.11 0 97.06 256
FNBB BE AMP   1047 51.00   59.8 0.34   97.06 256
FNBB BN AMP   1047 51.15   61.9 0.33   97.06 256
BMBC BZ EP   1048 11.72   0.3 9 344.0 188

Appendix2

Phase picks and location parameters (2006-2012)

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 1- 2006 1120 0535 57.6   59.230  -122.871 10.0  0.0 1.8MC 1.8ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       536  4.71   19              11.8 16.3      0  0.01 0 38.62 192
FNBB BN  AMP      536  8.10       150.4 0.68                          38.62 192
FNBB BE ESG       536  9.89                                   0.01 0 38.62 192
FNBB BE  AMP      536 13.01        64.4 0.69                          38.62 192

 2- 2006 1213 1145 21.1   59.539  -122.323 10.0  0.1 2.2MC 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1145 35.54   24              28.2  6.4      0  0.01 0 82.22 209
FNBB BN ESG      1145 46.06                                     0.01 0 82.22 209
FNBB BN  AMP     1145 48.02       106.3 0.33                          82.22 209
FNBB BE  AMP     1145 48.45       122.9 0.35                          82.22 209
BMBC BZ EP       1146 17.78                                     0.1  9 389.3 178

 3- 2006 1224 1432 31.6   59.462  -122.303 10.0  0.4 2.3MC 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1432 44.85   27              32.1  5.1      0  0.41 0 73.97 214
FNBB BN  AMP     1432 50.62       133.9 0.76                          73.97 214
FNBB BE  AMP     1432 51.49       141.1 0.46                          73.97 214
FNBB BN ESG      1432 53.70                                    -0.11 0 73.97 214
BMBC BZ EPG      1433 32.39                                    -0.4  9 378.7 178

 4- 2006 1230 2243 52.1   59.441  -122.229 10.0  0.5 2.5MC 2.4ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      2244  5.21   34              35.7  5.8      0 -0.31 0 75.87 216
FNBB BE ESG      2244 14.98                                    -0.31 0 75.87 216
FNBB BE  AMP     2244 19.71       190.9 0.55                          75.87 216
FNBB BN  AMP     2244 21.10       195.2 0.59                          75.87 216
BMBC BN ES       2245 28.38                                     0.7  9 378.2 179

 5- 2007  1 2 1345  5.9   58.899  -122.153 10.0  0.0 1.7MC 1.8ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ IPG      1345 14.81   16              88.5  9.2      0  0.01 0 49.38 269
FNBB BE  AMP     1345 17.85        80.5 0.58                          49.38 269
FNBB BN  AMP     1345 19.60        83.5 0.68                          49.38 269
FNBB BN ESG      1345 21.31                                     0.01 0 49.38 269

 6- 2007  110 1827 40.7   59.436  -122.372 10.0  0.0 1.7MC 1.6ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1827 53.19   14              30.7  9.8      0  0.01 0 70.94 211
FNBB BN  AMP     1827 57.16        36.2 0.83                          70.94 211
FNBB BE  AMP     1827 58.45        31.2 0.48                          70.94 211
FNBB BE ESG      1828  2.35                                     0.01 0 70.94 211

 7- 2007  111 2044  5.0   59.245  -122.686 10.0  0.5 2.1MC 2.2ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG    C 2044 13.19   25              25.0 11.0      0  0.31 0 43.65 205
FNBB BE  AMP     2044 15.24       192.6 0.48                          43.65 205
FNBB BN  AMP     2044 16.91       273.3 0.55                          43.65 205
FNBB BE ESG      2044 19.11                                     0.41 0 43.65 205
BMBC BZ EPG      2045  5.44                                    -0.7  9 357.9 174

 8- 2007  113 1945 55.2   59.208  -121.892 10.0  0.0 2.0MC 2.2ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1946  8.15   20              60.6  4.2      0  0.01 0 73.29 242
FNBB BE  AMP     1946 10.37        93.9 0.69                          73.29 242
FNBB BN  AMP     1946 11.75       123.4 0.63                          73.29 242
FNBB BE ESG      1946 17.60                                     0.01 0 73.29 242

 9- 2007  115 1828 11.6   58.960  -122.127 10.0  0.0 1.9MC 2.1ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1828 20.83   19              80.9 15.3      0  0.01 0 51.41 262
FNBB BN  AMP     1828 24.63       158.3 0.66                          51.41 262
FNBB BN ESG      1828 27.58                                     0.01 0 51.41 262
FNBB BE  AMP     1828 29.27       151.2 0.86                          51.41 262

10- 2007  117 0954 26.9   58.996  -122.115 10.0  0.0 1.9MC 2.0ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
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FNBB BZ EPG       954 36.34   19              76.7 15.6      0  0.01 0 52.87 257
FNBB BE  AMP      954 38.61        87.0 0.50                            52.87 257
FNBB BN  AMP      954 40.30       155.5 0.77                            52.87 257
FNBB BE ESG       954 43.27                                   0.01 0 52.87 257

11- 2007  123 1143 25.9   59.235  -122.010 10.0  0.3 2.3MC 2.1ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1143 38.28   30              55.8 12.4      0  0.21 0 69.02 237
FNBB BN  AMP     1143 44.03       127.4 0.70                            69.02 237
FNBB BE  AMP     1143 45.27        85.8 0.62                            69.02 237
FNBB BE ISG      1143 47.20                                   0.21 0 69.02 237
BMBC BZ EPG      1144 26.12                                  -0.5  9 355.3 181

12- 2007  2 8 0723 39.2   59.180  -121.970 10.0  0.8 2.6MC 2.6ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ IPG       723 51.73   43              61.2 13.9      0  0.51 0 67.86 242
FNBB BE  AMP      723 56.58       313.7 0.59                            67.86 242
FNBB BN  AMP      723 58.31       300.2 0.63                            67.86 242
FNBB BE ESG       724  0.51                                   0.51 0 67.86 242
BMBC BN ES        725  7.32                                  -1.2  9 349.3 182

13- 2007  312 1907 53.3   59.200  -122.733 10.0  0.2 2.5ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ IPG      19 8  0.38                  24.6  7.0      0  0.11 0 37.98 205
FNBB BE  AMP     19 8  1.91       504.5 0.50                            37.98 205
FNBB BN  AMP     19 8  3.27       650.4 0.62                            37.98 205
FNBB BE ISG      19 8  5.48                                   0.11 0 37.98 205
BMBC BZ EPG      19 8 53.35                                  -0.3  9 353.2 174

14- 2007  327 1215 36.0   59.059  -123.660 10.0  0.0 1.5MC 1.6ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1215 43.67   13             297.0 11.2      0  0.01 0 41.88 116
FNBB BE  AMP     1215 45.05        52.4 0.08                            41.88 116
FNBB BN  AMP     1215 45.14        64.3 0.37                            41.88 116
FNBB BE ESG      1215 49.25                                   0.01 0 41.88 116

15- 2007  327 1222 20.6   59.175  -122.265 10.0  0.1 2.3MC 2.5ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1222 30.15   32              53.1  7.1      0  0.01 0 53.24 234
FNBB BN  AMP     1222 33.41       330.5 0.68                            53.24 234
FNBB BN ESG      1222 37.13                                   0.01 0 53.24 234
FNBB BE  AMP     1222 37.96       349.0 0.62                            53.24 234
BMBC BN ES       1223 49.66                                  -0.1  9 348.7 179

16- 2007  4 1 0301 12.0   58.451  -122.652 10.0  0.0 2.0MC 1.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       3 1 21.56   21             156.9  9.1      0  0.01 0 53.16 337
FNBB BN ESG       3 1 28.53                                   0.01 0 53.16 337
FNBB BE  AMP      3 1 28.81        79.1 0.55                            53.16 337
FNBB BN  AMP      3 1 31.34        85.1 0.62                            53.16 337

17- 2007  411 1022  9.5   59.394  -122.086 10.0  0.0 1.5ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ IPG      1022 23.05                  42.9  8.1      0  0.01 0 77.09 224
FNBB BN ISG      1022 32.97                                   0.01 0 77.09 224
FNBB BN  AMP     1022 43.78        25.1 0.77                            77.09 224
FNBB BE  AMP     1022 44.48        22.2 0.77                            77.09 224

18- 2007  411 1039 30.6   59.474  -122.343 10.0  0.1 2.4MC 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1039 43.99   30              30.1  8.9      0  0.11 0 75.37 211
FNBB BN  AMP     1039 47.21       136.9 0.63                            75.37 211
FNBB BE ESG      1039 53.69                                   0.11 0 75.37 211
FNBB BE  AMP     1040  6.06       149.4 0.87                            75.37 211
BMBC BN ES       1041  6.77                                  -0.2  9 382.1 178

19- 2007  415 0420 56.3   59.452  -122.193 10.0  0.5 2.7MC 2.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       421 10.50   46              36.4 13.7      0  0.41 0 78.08 217
FNBB BN ESG       421 20.54                                   0.41 0 78.08 217
FNBB BE  AMP      421 25.00       603.3 0.61                            78.08 217
FNBB BN  AMP      421 26.68       601.2 0.58                            78.08 217
BMBC BN ES        422 31.23                                  -0.9  9 379.4 179
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YKW3 BE ES        423  4.55                                    -0.2  8 532.1  47

20- 2007  424 0832 58.4   59.210  -124.362 10.0  0.0 2.0MC 2.0ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       833 13.33   19             295.2 11.0      0  0.01 0 85.35 114
FNBB BE  AMP      833 15.37        50.9 0.59                           85.35 114
FNBB BN  AMP      833 16.73        62.6 0.65                           85.35 114
FNBB BE ESG       833 24.27                                    0.01 0 85.35 114

21- 2007  511 2109  6.3   58.950  -121.362 10.0  0.1 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      21 9 22.85                  85.3  9.2      0  0.01 0 95.15 267
FNBB BN ESG      21 9 34.95                                  -0.11 0 95.15 267
FNBB BN  AMP     2110  0.33        95.3 0.62                           95.15 267
FNBB BE  AMP     2110  0.74        98.8 0.54                           95.15 267
BMBC BZ EP       21 9 55.22                                   0.1  9 326.8 188

22- 2007  511 2146 15.7   59.467  -121.774 10.0  0.3 2.4MC 2.5ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      2146 32.53   31             47.2 20.8      0  0.21 0 95.49 228
FNBB BN  AMP     2146 41.39       161.4 0.74                          95.49 228
FNBB BN ESG      2146 44.72                                   0.21 0 95.49 228
FNBB BE  AMP     2146 45.83       154.6 0.68                          95.49 228
BMBC BZ EP       2147 10.94                                  -0.4  9 381.7 183

23- 2007  523 0827 28.0   58.889  -121.910 10.0  0.7 2.3MC 2.2ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       827 39.66   31             89.7  7.1      0  0.41 0 63.41 271
FNBB BN  AMP      827 43.69       139.8 0.61                          63.41 271
FNBB BE  AMP      827 45.98       128.3 0.62                          63.41 271
FNBB BE ESG       827 47.89                                    0.41 0 63.41 271
FSB  EZ EP        828 38.81                                   -1.1  8 513.1 198

24- 2007  6 2 0553 31.1   59.159  -122.528 10.0  0.0 1.5MC 1.4ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       553 38.54   13             42.6 24.3      0  0.01 0 40.73 223
FNBB BN  AMP      553 43.43        40.0 0.66                          40.73 223
FNBB BN ESG       553 43.98                                    0.01 0 40.73 223
FNBB BE  AMP      553 47.62        42.5 0.62                          40.73 223

25- 2007  6 3 0831 58.4   58.693  -124.583 10.0  0.0 1.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       832 14.77                 257.1 10.8      0  0.01 0 93.61  76
FNBB BN ESG       832 26.73                                    0.01 0 93.61  76
FNBB BE  AMP      832 30.78        38.6 0.66                          93.61  76
FNBB BN  AMP      832 32.46        37.3 0.74                          93.61  76

26- 2007  622 2229 30.6   59.277  -123.481 10.0  0.0 2.0MC 1.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      2229 39.72   22            328.1  8.8      0  0.01 0 50.83 148
FNBB BE ESG      2229 46.40                                   0.01 0 50.83 148
FNBB BE  AMP     2229 49.43       101.3 0.59                          50.83 148
FNBB BN  AMP     2229 51.22       102.5 0.59                          50.83 148

27- 2007  628 2056 42.0   59.036  -122.128 10.0  0.0 2.0ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      2056 51.58                  71.9 10.9      0  0.01 0 53.27 253
FNBB BE  AMP     2056 53.45       110.2 0.56                          53.27 253
FNBB BN  AMP     2056 55.43       147.9 0.56                          53.27 253
FNBB BN ESG      2056 58.56                                   0.01 0 53.27 253

28- 2007  729 2244 37.7   59.467  -122.356 10.0  0.0 2.1MC 1.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      2244 50.84   22             29.9  7.1      0  0.01 0 74.34 210
FNBB BE ESG      2245  0.42                                   0.01 0 74.34 210
FNBB BE  AMP     2245  3.37        60.1 0.53                          74.34 210
FNBB BN  AMP     2245 14.61        55.0 0.50                          74.34 210

29- 2007  828 0130 41.1   59.316  -122.737 10.0  0.3 2.2MC 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       130 49.73   29             18.3  7.8      0 -0.31 0 49.93 198
FNBB BE ESG       130 56.72                                    0.11 0 49.93 198
FNBB BN  AMP      131  1.21       248.2 0.23                          49.93 198
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FNBB BE  AMP      131  2.84       245.9 0.62                          49.93 198
BMBC BZ EP        131 34.74                                  0.0  9 366.1 174
BMBC BN ES        132 14.34                                  0.4  9 366.1 174

30- 2007  9 5 1430 31.5   58.674  -121.768 10.0  0.0 1.9MC 1.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1430 44.84   18             108.0  5.7      0  0.01 0 75.72 289
FNBB BE  AMP     1430 46.73        61.1 0.65                          75.72 289
FNBB BN  AMP     1430 47.79        64.0 0.77                          75.72 289
FNBB BE ESG      1430 54.59                                  0.01 0 75.72 289

31- 2007  9 9 2112 54.0   58.953  -122.532 10.0  0.0 1.8MC 1.8ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      2112 59.44   20              75.6  7.2      0  0.01 0 28.40 256
FNBB BE ESG      2113  3.38                                     0.01 0 28.40 256
FNBB BE  AMP     2113  4.59       141.8 0.53                          28.40 256

32- 2007  916 2050 29.4   59.092  -123.710 10.0  0.0 1.7MC 1.6ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      2050 37.76   16             299.5 11.4      0  0.01 0 46.11 119
FNBB BN  AMP     2050 42.51        58.7 0.68                          46.11 119
FNBB BE ESG      2050 43.86                                  0.01 0 46.11 119

33- 2007  917 0602 39.1   59.065  -123.762 10.0  0.0 2.1MC 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       6 2 47.66   24             294.5  6.5      0  0.01 0 47.44 114
FNBB BE ESG       6 2 53.92                                     0.01 0 47.44 114
FNBB BE  AMP      6 2 55.22       293.6 0.58                          47.44 114
FNBB BN  AMP      6 2 58.13       214.2 0.61                          47.44 114
FSB  EZ EPG       6 4  6.38                                  0.0  8 512.0 184

34- 2007 10 3 1409 20.8   58.372  -121.693 10.0  3.1 2.6MC 2.7ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      14 9 41.75   35             119.7 15.6     -6  4.31 0 95.87 308
FNBB BE ESG      14 9 47.00                                   -2.71 0 95.87 308
FNBB BN  AMP     14 9 57.23       147.0 0.58                          95.87 308
FNBB BE  AMP     14 9 58.16       260.6 0.58                          95.87 308
BMBC BZ EP       14 9 56.36                                 -1.61 0 260.4 186

35- 2007 10 3 1943 26.5   58.604  -122.920 10.0  0.0 1.5MC 1.5ML
GAP=360        0.30       3.4     1.9  0.0 -0.3406E+01 -0.2755E+06  0.1205E+06E
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1943 32.58   13             170.7 14.8      0  0.01 0 32.29 351
FNBB BE  AMP     1943 34.14        69.4 0.54                          32.29 351
FNBB BN  AMP     1943 35.51        78.1 0.66                          32.29 351
FNBB BE ESG      1943 36.99                                  0.01 0 32.29 351

36- 2007 10 8 1719 45.5   59.275  -122.104 10.0  0.8 2.6MC 2.6ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1719 57.45   40              50.1  7.3      0  0.01 0 67.33 231
FNBB BE  AMP     1720  0.56       349.2 0.63                          67.33 231
FNBB BN  AMP     1720  1.96       404.7 0.58                          67.33 231
FNBB BN ESG      1720  6.16                                  0.01 0 67.33 231
BMBC BN ES       1721 16.14                                 -0.9  9 359.7 180
YKW3 BN ES       1721 57.58                                  1.6  8 542.1  45

37- 2007 1011 2222 28.1   58.838  -124.525 10.0  0.4 2.2MC 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      2222 43.20   24             266.8 10.7      0 -0.31 0 87.63  86
FNBB BN  AMP     2222 46.16       125.4 0.61                          87.63  86
FNBB BN ESG      2222 54.42                                 -0.31 0 87.63  86
FNBB BE  AMP     2222 57.44       119.1 0.83                          87.63  86
BMBC BZ EP       2223 19.56                                  0.7  9 342.6 154

38- 2007 1011 2252 56.7   59.436  -122.131 10.0  0.0 1.8MC 1.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      2253 10.54   16              39.2  7.7      0  0.01 0 78.87 220
FNBB BN  AMP     2253 12.74        54.7 0.68                          78.87 220
FNBB BE  AMP     2253 13.72        43.8 0.83                          78.87 220
FNBB BE ESG      2253 20.67                                  0.01 0 78.87 220

39- 2007 11 7 1346 30.1   58.705  -123.145 10.0  0.0 1.6MC 1.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
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FNBB BZ EPG      1346 34.51   16             200.8 11.6      0  0.01 0 22.13  21
FNBB BE  AMP     1346 37.22        71.5 0.50                          22.13  21
FNBB BN ESG      1346 37.69                                  0.01 0 22.13  21
FNBB BN  AMP     1346 38.84        71.1 0.72                          22.13  21

40- 2007 1123 0716 25.9   58.083  -122.458 10.0  0.0 2.1MC 2.1ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       716 42.58   21             160.1  6.0      0  0.01 0 95.55 341
FNBB BE ESG       716 54.78                                     0.01 0 95.55 341
FNBB BE  AMP      716 55.99        58.1 0.62                          95.55 341
FNBB BN  AMP      716 57.29        76.0 0.50                          95.55 341

41- 2007 1212 1742  1.5   59.062  -122.272 10.0  0.6 2.3MC 2.2ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1742 10.35   31              65.4 11.4      0  0.41 0 46.54 246
FNBB BE  AMP     1742 15.06       197.3 0.55                         46.54 246
FNBB BN  AMP     1742 16.20       194.9 0.66                         46.54 246
FNBB BE ESG      1742 16.50                                  0.41 0 46.54 246
BMBC BN ES       1743 27.14                                 -0.9  9 336.1 179

42- 2007 1212 1753 59.3   59.408  -122.102 10.0  0.0 1.9MC 2.0ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1754 13.02   18              41.6 10.3      0  0.01 0 77.61 222
FNBB BN ESG      1754 22.91                                     0.01 0 77.61 222
FNBB BN  AMP     1754 24.09        68.7 0.41                          77.61 222

43- 2007 1219 1236 59.0   59.680  -122.520 10.0  0.7 2.3MC 2.1ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1237 15.34   25              17.4 11.7      0  0.41 0 92.29 198
FNBB BE ESG      1237 27.29                                     0.41 0 92.29 198
FNBB BE  AMP     1237 31.70        69.3 0.61                          92.29 198
FNBB BN  AMP     1237 35.76        65.9 0.68                          92.29 198
FSB  EZ EPG      1238 38.13                                    -1.3  7 589.6 191

44- 2008  1 1 0111 35.2   59.036  -122.102 10.0  0.0 1.8MC 1.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       111 44.96   17              72.4 11.2      0  0.01 0 54.66 253
FNBB BN  AMP      111 49.54        78.8 0.33                          54.66 253
FNBB BE  AMP      111 51.21        85.5 0.59                          54.66 253
FNBB BE ESG       111 52.11                                     0.01 0 54.66 253

45- 2008  1 6 1703 54.8   59.383  -122.013 10.0  0.0 2.0MC 2.1ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      17 4  8.76   19              45.7 15.5      0  0.01 0 79.19 227
FNBB BE  AMP     17 4 10.90        80.2 0.62                          79.19 227
FNBB BN  AMP     17 4 12.13        78.3 0.58                          79.19 227
FNBB BN ESG      17 4 18.94                                     0.01 0 79.19 227

46- 2008  1 8 0025 12.2   59.363  -122.071 10.0  0.0 1.9MC 1.8ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       025 25.44   17              45.2 14.3      0  0.01 0 75.22 226
FNBB BE  AMP      025 27.13        50.8 0.70                          75.22 226
FNBB BN  AMP      025 28.20        37.3 0.56                          75.22 226
FNBB BN ESG       025 35.13                                     0.01 0 75.22 226

47- 2008  110 0838 32.4   59.321  -122.083 10.0  0.0 2.1MC 2.1ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       838 45.00   24              47.5  7.6      0  0.01 0 71.58 228
FNBB BE  AMP      838 47.56        90.6 0.55                          71.58 228
FNBB BN  AMP      838 48.50        85.4 0.74                          71.58 228
FNBB BE ESG       838 54.24                                     0.01 0 71.58 228

48- 2008  118 1154 23.8   59.325  -121.909 10.0  0.2 2.1MC 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1154 37.88   21              52.0  8.9      0  0.11 0 79.51 233
FNBB BE ESG      1154 48.07                                     0.11 0 79.51 233
FNBB BE  AMP     1154 50.19       118.5 0.74                          79.51 233
FNBB BN  AMP     1154 51.83       129.9 0.76                          79.51 233
FSB  EZ EP       1155 41.18                                    -0.3  8 559.5 196

49- 2008  2 8 0718  6.0   59.492  -122.342 10.0  0.2 2.6MC 2.5ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       718 19.39   40              29.4  8.4      0 -0.21 0 77.13 210
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FNBB BE ESG       718 29.46                                      0.01 0 77.13 210
FNBB BE  AMP      718 32.94       190.6 0.72                            77.13 210
FNBB BN  AMP      718 33.75       216.1 0.58                            77.13 210
YKW3 BE ES        720 15.40                                      0.3  8 535.3  48

50- 2008  210 0047 28.9   59.399  -122.199 10.0  0.4 2.1MC 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       047 42.06   23             39.0  7.9      0  0.21 0 73.24 220
FNBB BE  AMP      047 45.72       126.6 0.55                            73.24 220
FNBB BN  AMP      047 46.02       170.7 0.66                            73.24 220
FNBB BE ESG       047 51.50                                      0.21 0 73.24 220
YKW3 BN ES        049 37.57                                     -0.7  8 536.4  47

51- 2008  217 2357 50.6   59.297  -122.057 10.0  0.2 2.3MC 2.2ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      2358  3.21   29             49.9  7.0      0  0.11 0 70.95 231
FNBB BE  AMP     2358  8.33       122.2 0.47                            70.95 231
FNBB BN  AMP     2358  9.78       115.9 0.45                            70.95 231
FNBB BE ESG      2358 12.37                                      0.11 0 70.95 231
YKW3 BN ES       2359 59.97                                     -0.3  8 538.4  45

52- 2008  221 0527 37.0   59.250  -122.003 10.0  0.5 2.3MC 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       527 49.71   30             54.8  7.5      0  0.21 0 70.28 236
FNBB BE  AMP      527 52.54       127.4 0.66                            70.28 236
FNBB BN  AMP      527 54.01       203.4 0.53                            70.28 236
FNBB BN ESG       527 58.79                                      0.21 0 70.28 236
YKW3 BE ES        529 46.32                                     -0.8  8 539.9  45

53- 2008  222 1539 34.4   58.985  -124.289 10.0  0.0 1.9MC 1.8ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1539 47.56   18            278.7  7.8      0  0.01 0 74.43  98
FNBB BE  AMP     1539 56.56        48.9 0.55                            74.43  98
FNBB BN ESG      1539 57.15                                      0.01 0 74.43  98
FNBB BN  AMP     1540  1.47        42.9 0.50                            74.43  98

54- 2008  229 1018 47.8   59.700  -123.574 10.0  1.5 2.2MC 2.2ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1019  5.24   22            340.6 15.1      0  0.71 0 95.76 160
FNBB BE ESG      1019 17.46                                      0.71 0 95.76 160
FNBB BE  AMP     1019 18.82        70.7 0.69                            95.76 160
FNBB BN  AMP     1019 28.04        74.9 0.58                            95.76 160
FSB  EZ EP       1020  5.80                                     -2.6  8 583.4 185

55- 2008  229 1046  7.5   59.173  -122.018 10.0  0.0 1.8MC 1.8ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1046 19.03   17             60.6  6.8      0  0.01 0 65.07 241
FNBB BN ESG      1046 27.53                                      0.01 0 65.07 241
FNBB BN  AMP     1046 42.05        51.6 0.90                            65.07 241
FNBB BE  AMP     1046 55.86        69.1 1.01                            65.07 241

56- 2008  3 1 1858 50.1   59.224  -122.296 10.0  0.6 2.4MC 2.5ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1858 59.74   36             47.5 32.5      0 -0.31 0 55.30 228
FNBB BE  AMP     1859  3.04       356.4 0.93                            55.30 228
FNBB BN  AMP     1859  3.86       340.8 0.83                            55.30 228
FNBB BN ESG      1859  6.97                                     -0.31 0 55.30 228
YKW3 BN ES       19 1  4.23                                      1.0  8 553.9  46

57- 2008  3 4 0143 12.2   59.304  -121.988 10.0  0.0 2.1MC 2.0ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       143 25.35   22             51.4  7.2      0  0.01 0 74.50 232
FNBB BE ESG       143 34.95                                      0.01 0 74.50 232
FNBB BE  AMP      143 39.61        69.2 0.62                            74.50 232
FNBB BN  AMP      143 41.77        90.0 0.95                            74.50 232

58- 2008  3 6 0909 19.3   59.507  -123.597 10.0  0.1 2.1MC 2.2ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       9 9 32.65   22            334.1 11.4      0 -0.11 0 76.46 154
FNBB BN ESG       9 9 42.57                                      0.01 0 76.46 154
FNBB BE  AMP      9 9 44.74        98.0 0.39                            76.46 154
FNBB BN  AMP      9 9 45.87       116.7 0.66                            76.46 154
FSB  EZ EP        910 37.78                                      0.1  8 561.9 185
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59- 2008  3 8 1115 23.6   58.648  -122.206 10.0  0.1 2.2MC 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1115 33.26   29             119.8  8.9      0  0.01 0 53.77 300
FNBB BE  AMP     1115 36.12       209.9 0.76                          53.77 300
FNBB BN  AMP     1115 36.62       205.9 0.70                          53.77 300
FNBB BE ESG      1115 40.30                                    0.01 0 53.77 300
FSB  EZ EPG      1116 45.77                                   -0.1  8 482.4 197

60- 2008  310 0506 20.1   58.831  -122.284 10.0  0.0 1.8MC 2.0ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       5 6 27.78   18              98.6  7.4      0  0.01 0 42.38 279
FNBB BN  AMP      5 6 31.48       140.2 0.72                          42.38 279
FNBB BE ESG       5 6 33.42                                    0.01 0 42.38 279
FNBB BE  AMP      5 6 35.97       189.3 0.91                          42.38 279

61- 2008  316 1335 38.0   59.339  -122.135 10.0  0.0 2.1MC 1.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1335 50.53   23              44.7  9.7      0  0.01 0 70.77 225
FNBB BE ESG      1335 59.67                                    0.01 0 70.77 225
FNBB BE  AMP     1336  6.92        73.9 0.69                          70.77 225
FNBB BN  AMP     1336  7.99        52.5 0.62                          70.77 225

62- 2008  324 0016 50.4   59.480  -122.564 10.0  0.8 2.1MC 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       017  3.07   23              21.0  8.2      0  0.21 0 70.46 201
FNBB BE  AMP      017  4.53       129.8 0.50                          70.46 201
FNBB BN  AMP      017  6.25       158.6 0.62                          70.46 201
FNBB BE ESG       017 12.52                                    0.61 0 70.46 201
YKW3 BN ES        019  0.36                                   -1.3  8 545.6  49

63- 2008  324 0350 13.8   59.289  -121.981 10.0  0.9 2.2MC 2.0ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       350 26.84   24              52.6  7.9      0  0.11 0 73.82 233
FNBB BE ESG       350 37.14                                    0.81 0 73.82 233
FNBB BE  AMP      350 43.32        71.0 0.55                          73.82 233
FNBB BN  AMP      350 44.98        65.6 0.72                          73.82 233
YKW3 BN ES        352 21.51                                   -1.5  8 536.0  45

64- 2008  325 0131 39.4   58.032  -122.857 10.0  0.0 2.1MC 2.1ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       131 55.94   20             174.6  7.5      0  0.01 0 96.02 355
FNBB BE ESG       132  8.39                                    0.01 0 96.02 355
FNBB BN  AMP      132 14.33        61.2 0.50                          96.02 355
FNBB BE  AMP      132 14.71        59.4 0.61                          96.02 355
FSB  EZ EP        132 38.04                                    0.0  9 406.2 194

65- 2008  326 1146 18.8   59.239  -121.831 10.0  0.0 2.6ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1146 32.50                   59.6  8.7      0  0.01 0 77.98 241
FNBB BE  AMP     1146 34.35       258.0 0.53                          77.98 241
FNBB BN  AMP     1146 35.77       286.0 0.54                          77.98 241
FNBB BE ESG      1146 42.53                                    0.01 0 77.98 241

66- 2008  329 2112 57.3   58.227  -122.880 10.0  1.3 2.3MC 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      2113 10.95   30             174.1 11.2      0  0.61 0 74.27 354
FNBB BN ESG      2113 20.52                                    0.61 0 74.27 354
FNBB BN  AMP     2113 24.46       118.3 0.55                          74.27 354
FNBB BE  AMP     2113 28.28       200.4 0.48                          74.27 354
YKW3 BN ES       2115 30.43                                   -2.3  7 658.3  40

67- 2008  330 0547 28.5   59.319  -122.461 10.0  0.0 1.8MC 1.7ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       547 38.67   18              33.1 23.6      0  0.01 0 57.17 214
FNBB BE  AMP      547 41.45        57.1 0.53                          57.17 214
FNBB BN  AMP      547 41.46        49.0 0.62                          57.17 214
FNBB BE ESG    D  547 46.13                                    0.01 0 57.17 214

68- 2008  4 6 0729 41.5   59.336  -122.074 10.0  0.0 2.1MC 2.0ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       729 54.45   22              46.8 14.7      0  0.01 0 73.07 228
FNBB BN ESG       730  3.87                                    0.01 0 73.07 228
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FNBB BE  AMP      730  4.72        68.4 0.43                            73.07 228
FNBB BN  AMP      730  9.90        69.4 0.61                            73.07 228

69- 2008  423 0137 34.4   58.922  -121.310 10.0  0.4 2.2MC 2.1ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       137 51.84   24              87.3 10.2      0  0.41 0 98.02 269
FNBB BE ESG       138  4.17                                    0.21 0 98.02 269
FNBB BN  AMP      138  9.92        62.1 0.53                            98.02 269
FNBB BE  AMP      138 12.08        54.7 0.62                            98.02 269
BMBC BN ES        138 57.67                                    -0.6  9 324.1 189

70- 2008  430 1513 50.6   59.211  -121.937 10.0  0.0 2.1MC 1.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1514  3.14   23              59.4  7.0      0  0.01 0 71.22 240
FNBB BN ESG      1514 12.33                                    0.01 0 71.22 240
FNBB BE  AMP     1514 18.56        62.6 0.61                            71.22 240
FNBB BN  AMP     1514 20.03        65.4 0.62                            71.22 240

71- 2008  5 5 0037  6.1   59.243  -121.948 10.0  0.0 1.9MC 1.8ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       037 18.86   19              56.7  7.4      0  0.01 0 72.47 238
FNBB BE  AMP      037 28.10        44.6 0.80                            72.47 238
FNBB BN ESG       037 28.21                                    0.01 0 72.47 238
FNBB BN  AMP      037 29.54        45.9 0.72                            72.47 238

72- 2008  5 7 1119 11.2   59.276  -122.018 10.0  0.0 2.1MC 1.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1119 23.81   22              52.5  5.4      0  0.01 0 71.29 233
FNBB BN ESG      1119 33.01                                    0.01 0 71.29 233
FNBB BE  AMP     1119 41.70        58.9 0.68                            71.29 233
FNBB BN  AMP     1119 44.35        57.6 0.43                            71.29 233

73- 2008  5 8 2331 15.7   59.422  -122.249 10.0  1.3 2.7MC 2.6ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      2331 29.44   46              36.0  4.9      0  0.81 0 73.50 217
FNBB BE ESG      2331 38.91                                    0.81 0 73.50 217
FNBB BE  AMP     2331 42.76       288.0 0.59                            73.50 217
FNBB BN  AMP     2331 44.44       281.2 0.70                            73.50 217
BMBC BN ES       2332 48.78                                    -2.0  9 376.1 179

74- 2008  6 5 0925 29.8   58.485  -121.696 10.0  0.0 1.8MC 1.6ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       925 45.37   15             120.1  8.0      0  0.01 0 88.59 301
FNBB BN  AMP      925 54.07        23.1 1.07                            88.59 301
FNBB BE  AMP      925 54.47        23.4 0.96                            88.59 301
FNBB BE ESG       925 56.71                                    0.01 0 88.59 301

75- 2008  6 5 0943 16.2   58.731  -121.684 10.0  0.0 2.1MC 2.1ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       943 30.05   23             102.5  8.2      0  0.01 0 78.64 284
FNBB BN  AMP      943 39.18        92.7 0.79                            78.64 284
FNBB BE  AMP      943 39.63        90.3 0.77                            78.64 284
FNBB BE ESG       943 40.16                                    0.01 0 78.64 284

76- 2008  6 7 1325 53.1   58.986  -122.887 10.0  0.0 1.1MC 1.0ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1325 56.02    9              33.5  8.2      0  0.01 0 12.75 214
FNBB BE  AMP     1325 57.52        48.4 0.66                            12.75 214
FNBB BN ESG      1325 58.20                                    0.01 0 12.75 214
FNBB BN  AMP     1325 59.27        47.1 0.62                            12.75 214

77- 2008  7 5 1302 31.4   59.046  -122.365 10.0  0.7 1.7MC 1.7ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       13 2 38.27   16              64.6  5.7      0 -0.71 0 40.94 245
FNBB BE  AMP      13 2 42.46        73.8 0.62                            40.94 245
FNBB BN ESG       13 2 45.04                                    0.71 0 40.94 245

78- 2008  7 9 1237 43.6   59.074  -122.347 10.0  0.0 1.8MC 1.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1237 51.43   18              61.5 12.6      0  0.01 0 43.27 242
FNBB BE  AMP     1237 53.62       117.3 0.70                            43.27 242
FNBB BN  AMP     1237 54.95       123.0 0.53                            43.27 242
FNBB BE ESG      1237 57.18                                    0.01 0 43.27 242
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79- 2008  714 1443  9.4   59.403  -122.189 10.0  0.2 2.1MC 2.2ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1443 22.28   22              39.1  7.9      0 -0.11 0 73.94 220
FNBB BE  AMP     1443 26.11       108.5 0.76                          73.94 220
FNBB BN  AMP     1443 27.76       109.4 0.66                          73.94 220
FNBB BN ESG      1443 31.81                                    -0.11 0 73.94 220
FSB  EZ EP       1444 27.97                                     0.4  8 563.7 194

80- 2008  715 0654 14.2   59.124  -121.897 10.0  0.0 1.7MC 1.5ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       654 26.38   14              67.4  8.3      0  0.01 0 69.03 248
FNBB BN  AMP      654 28.18        25.0 0.66                          69.03 248
FNBB BE  AMP      654 29.61        24.7 0.62                          69.03 248
FNBB BE ESG       654 35.30                                     0.01 0 69.03 248

81- 2008  718 1405 26.4   59.459  -122.250 10.0  0.3 2.2MC 2.1ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      14 5 40.15   25              34.1 18.9      0  0.21 0 76.81 215
FNBB BE  AMP     14 5 41.68        74.7 0.41                          76.81 215
FNBB BN  AMP     14 5 43.34        86.1 0.55                          76.81 215
FNBB BE ESG      14 5 50.03                                     0.21 0 76.81 215
FSB  EZ EP       14 6 44.71                                    -0.6  8 568.9 194

82- 2008  730 1031 48.0   59.304  -121.934 10.0  0.2 2.2MC 2.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1032  1.46   25              52.8  9.3      0 -0.11 0 76.97 234
FNBB BN ESG      1032 11.36                                    -0.11 0 76.97 234
FNBB BE  AMP     1032 18.08       125.4 0.58                          76.97 234
FNBB BN  AMP     1032 30.51       129.5 0.56                          76.97 234
FSB  EZ EP       1033  5.78                                     0.4  8 556.9 196

83- 2008  8 5 0838 52.6   59.053  -123.701 10.0  0.0 1.4MC 1.4ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       839  0.51   11             294.8 11.1      0  0.01 0 43.67 114
FNBB BN  AMP      839  2.13        38.7 0.45                          43.67 114
FNBB BE ESG       839  6.31                                     0.01 0 43.67 114

84- 2008  811 0747 44.4   59.425  -122.171 10.0  0.5 2.3MC 2.2ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       747 57.61   27              38.5  7.6      0 -0.31 0 76.48 219
FNBB BN ESG       748  7.45                                    -0.31 0 76.48 219
FNBB BN  AMP      748 13.51       101.2 0.55                          76.48 219
FNBB BE  AMP      748 13.61       103.0 0.37                          76.48 219
YKW3 BZ EP        748 59.55                                     0.8  8 533.2  47

85- 2008  816 0411 31.5   59.099  -121.842 10.0  0.0 2.1MC 2.1ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       411 44.04   24              70.4 11.6      0  0.01 0 71.05 251
FNBB BN  AMP      411 51.92       105.6 0.63                          71.05 251
FNBB BE ESG       411 53.21                                     0.01 0 71.05 251

86- 2008  822 1110  0.9   58.759  -123.878 10.0  0.0 1.8MC 1.8ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1110 10.25   17             254.0  8.0      0  0.01 0 52.25  73
FNBB BN  AMP     1110 13.83        76.2 0.68                          52.25  73
FNBB BN ESG      1110 17.12                                     0.01 0 52.25  73
FNBB BE  AMP     1110 18.39        73.9 0.62                          52.25  73

87- 2008  827 0533  9.8   59.225  -121.884 10.0  0.1 2.3MC 2.4ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       533 22.92   29              59.5 10.0      0  0.01 0 74.58 240
FNBB BN  AMP      533 26.25       201.2 0.63                          74.58 240
FNBB BN ESG       533 32.53                                     0.01 0 74.58 240
YKW3 BZ EP        534 25.16

88- 2008  9 1 0436 47.6   59.359  -122.049 10.0  0.0 1.8MC 1.7ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       437  0.96   16              46.1  7.5      0  0.01 0 75.83 227
FNBB BN ESG       437 10.72                                     0.01 0 75.83 227
FNBB BN  AMP      437 12.98        36.8 0.69                          75.83 227
FNBB BE  AMP      437 22.10        34.2 0.62                          75.83 227
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89- 2008  9 5 1522  5.9   58.693  -122.063 10.0  0.0 2.3MC 2.2ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1522 16.43   31             111.5 18.2      0  0.01 0 58.99 292
FNBB BN ESG      1522 24.12                                     0.01 0 58.99 292
FNBB BE  AMP     1522 24.89       152.8 0.96                           58.99 292
FNBB BN  AMP     1522 26.28       148.3 0.55                           58.99 292

90- 2008  912 0137  4.3   58.848  -123.294 10.0  0.0 1.7MC 1.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       137  7.92   17             254.1  5.2      0  0.01 0 17.07  74
FNBB BE ESG       137 10.53                                     0.01 0 17.07  74
FNBB BE  AMP      137 11.34       299.5 0.06                           17.07  74
FNBB BN  AMP      137 14.77       344.8 0.04                           17.07  74

91- 2008  916 0944 34.9   58.883  -121.738 10.0  0.3 2.0MC 1.8ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       944 47.65   21              90.1 11.6      0 -0.21 0 73.34 271
FNBB BN ESG       944 57.10                                    -0.21 0 73.34 271
FNBB BE  AMP      944 59.68        50.6 0.83                           73.34 271
FNBB BN  AMP      944 59.75        45.3 0.74                           73.34 271
FSB  EZ EP        945 47.62                                     0.5  8 515.6 199

92- 2008  918 1206 25.2   59.392  -121.864 10.0  3.1 2.7MC 2.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      12 6 42.14   45              49.1 13.6      0  1.81 0 86.16 230
FNBB BN  AMP     12 6 45.64       580.4 0.76                           86.16 230
FNBB BE ESG      12 6 53.18                                    1.81 0 86.16 230
FNBB BE  AMP     12 7  7.50       410.9 0.58                           86.16 230
YKW3 BE ES       12 8 31.62                                   -0.1  8 523.2  46
FSB  EZ ES       12 8 35.30                                   -6.0  8 567.4 196

93- 2008  922 0741 26.1   59.670  -123.201 24.5  0.2 2.8MC 3.0ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       741 40.82   48             353.5  3.0      1 -0.21 0 87.51 173
FNBB BE  AMP      741 45.57        42.7 0.61                           87.51 173
FNBB BN  AMP      741 47.74        50.5 0.68                           87.51 173
FNBB BE ESG       741 52.10                                    0.21 0 87.51 173
YKW3 BE  AMP      741 54.15       145.2 0.53                           559.9  52
YKW3 BN  AMP      741 54.48        83.9 0.52                           559.9  52
YKW3 BE ES        743 38.03                                    0.1  8 559.9  52
FSB  EZ ES        743 42.77                                   -0.1  8 582.2 187

94- 2008 10 1 0631 35.3   58.714  -122.538 10.0  0.0 1.9MC 1.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       631 41.59   22             125.6 13.0      0  0.01 0 33.62 306
FNBB BN  AMP      631 44.96       151.5 0.66                           33.62 306
FNBB BN ESG       631 46.16                                    0.01 0 33.62 306

95- 2008 10 9 1802 46.3   58.283  -123.513 10.0  0.0 2.0MC 1.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      18 2 59.31   20             203.6 12.2      0  0.01 0 73.72  23
FNBB BE ESG      18 3  8.81                                    0.01 0 73.72  23
FNBB BE  AMP     18 3 13.56        55.9 0.70                           73.72  23
FNBB BN  AMP     18 3 15.37        53.8 0.62                           73.72  23

96- 2008 1027 2132 56.4   59.224  -121.806 10.0  0.1 2.4MC 2.5ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      2133 10.17   30              61.2 10.9      0 -0.11 0 78.43 242
FNBB BN  AMP     2133 13.47       183.0 0.62                           78.43 242
FNBB BN ESG      2133 20.24                                   -0.11 0 78.43 242
FNBB BE  AMP     2133 22.12       215.9 0.48                           78.43 242
BMBC BN ES       2134 27.06                                    0.2  9 354.6 183

97- 2008 1030 0203 47.6   58.665  -122.067 10.0  0.0 1.9MC 1.9ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG       2 3 58.28   19             114.3 18.4      0  0.01 0 60.02 295
FNBB BN ESG       2 4  6.09                                    0.01 0 60.02 295
FNBB BE  AMP      2 4 12.43        84.2 0.55                           60.02 295
FNBB BN  AMP      2 4 14.12        86.6 0.55                           60.02 295

98- 2008 11 6 1032 22.6   58.790  -123.630 10.0  0.0 1.3MC 1.3ML
STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
FNBB BZ EPG      1032 29.55   11             252.9  5.5      0  0.01 0 37.55  72
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 FNBB BN ESG      1032 34.60                                      0.01 0 37.55  72
 FNBB BN  AMP     1032 35.80        46.7 0.69                             37.55  72
 FNBB BE  AMP     1032 39.70        23.2 0.66                             37.55  72

 99- 2008 1119 0832 29.6   59.294  -121.975 10.0  0.0 1.9MC 1.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       832 42.76   18              52.4 18.6      0  0.01 0 74.45 233
 FNBB BE ESG       832 52.35                                     0.01 0 74.45 233
 FNBB BE  AMP      832 56.83        45.8 0.55                             74.45 233
 FNBB BN  AMP      832 57.93        31.8 0.91                             74.45 233

100- 2008 12 3 1119 20.0   59.227  -121.865 10.0  0.5 2.0MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1119 33.04   19              59.8  8.7      0 -0.31 0 75.63 241
 FNBB BN ESG      1119 42.92                                    -0.21 0 75.63 241
 FNBB BN  AMP     1119 46.82       111.3 0.25                            75.63 241
 FSB  EZ EP       1120 37.32                                     0.8  8 549.8 197

101- 2008 12 3 1144 32.3   59.472  -121.969 10.0  0.3 2.3MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1144 47.87   27              42.1  9.7      0  0.21 0 87.97 223
 FNBB BN  AMP     1144 51.52       137.5 0.74                            87.97 223
 FNBB BE  AMP     1144 57.97       126.5 0.58                            87.97 223
 FNBB BE ESG      1144 59.14                                     0.21 0 87.97 223
 FSB  EZ EP       1145 51.22                                    -0.6  8 574.3 195

102- 2008 1214 2039 11.6   58.429  -121.823 10.0  0.0 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2039 26.65                  126.2  5.4      0  0.01 0 85.91 307
 FNBB BN ESG      2039 37.66                                     0.01 0 85.91 307
 FNBB BN  AMP     2039 39.87        67.1 0.83                             85.91 307
 FNBB BE  AMP     2039 47.22        68.7 0.63                             85.91 307

103- 2008 1214 2055 49.6   59.405  -122.624 10.0  0.0 1.7MC 1.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2056  0.57   15              20.9 11.3      0  0.01 0 61.46 201
 FNBB BN ESG      2056  8.56                                     0.01 0 61.46 201
 FNBB BN  AMP     2056 10.80       108.8 0.72                            61.46 201
 FNBB BE  AMP     2056 24.27        64.8 0.72                            61.46 201

104- 2008 1218 0657  1.1   59.363  -122.066 10.0  0.0 2.0MC 1.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       657 14.36   21              45.3  9.2      0  0.01 0 75.47 226
 FNBB BN ESG       657 24.08                                     0.01 0 75.47 226
 FNBB BE  AMP      657 34.01        38.7 0.62                            75.47 226
 FNBB BN  AMP      657 34.23        33.0 0.77                            75.47 226

105- 2008 1228 1339 51.7   59.169  -121.738 10.0  0.4 2.4MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1340  5.51   31              66.4 15.1      0 -0.21 0 79.35 248
 FNBB BE  AMP     1340  9.38       234.2 0.55                            79.35 248
 FNBB BN  AMP     1340 11.03       192.1 0.53                            79.35 248
 FNBB BE ESG      1340 15.71                                    -0.21 0 79.35 248
 YKW3 BN ES       1342  1.57                                     0.6  8 535.9  43

106- 2008 1228 2148 32.1   59.110  -121.727 10.0  0.2 2.3MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2148 45.71   27              71.1  5.8      0 -0.11 0 77.68 252
 FNBB BE  AMP     2148 47.64       179.1 0.56                            77.68 252
 FNBB BN  AMP     2148 49.13       182.2 0.59                            77.68 252
 FNBB BN ESG      2148 55.70                                    -0.11 0 77.68 252
 YKW3 BN ES       2150 42.51                                     0.3  8 540.3  43

107- 2009  1 5 1106 21.8   59.249  -122.048 10.0  0.3 2.3MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      11 6 34.02   30              53.7  6.5      0  0.21 0 68.11 234
 FNBB BE ESG      11 6 42.83                                     0.21 0 68.11 234
 FNBB BE  AMP     11 6 45.39       197.6 0.82                            68.11 234
 FNBB BN  AMP     11 6 45.46       196.0 0.66                            68.11 234
 BMBC BZ EP       11 7 13.92                                    -0.4  9 356.8 181

108- 2009  122 0019 10.8   59.333  -122.797 10.0  0.0 1.8MC 2.0ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
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 FNBB BZ EPG       019 19.94   18              13.8 13.7      0  0.01 0 50.76 194
 FNBB BN  AMP      019 22.88       108.8 0.54                          50.76 194
 FNBB BE  AMP      019 22.89       110.5 0.41                          50.76 194
 FNBB BE ESG       019 26.61                                   0.01 0 50.76 194

109- 2009  2 1 0942 41.9   58.912  -121.588 10.0  0.1 2.3MC 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       942 56.25   28              87.7  7.3      0 -0.11 0 81.98 269
 FNBB BN ESG       943  6.77                                  -0.11 0 81.98 269
 FNBB BN  AMP      943  8.03        80.0 0.53                          81.98 269
 FNBB BE  AMP      943 25.20        71.6 0.66                          81.98 269
 BMBC BZ EP        943 30.15                                    0.1  9 320.9 186

110- 2009  222 1433 38.8   59.590  -122.619 10.0  0.2 2.5MC 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1433 52.99   33              15.8  7.5      0 -0.11 0 81.07 196
 FNBB BE ESG      1434  3.40                                  -0.11 0 81.07 196
 FNBB BN  AMP     1434  5.79       118.7 0.50                          81.07 196
 FNBB BE  AMP     1434 10.82       119.8 0.55                          81.07 196
 BMBC BZ EP       1434 36.47                                    0.2  9 395.9 176

111- 2009  228 0045 19.6   59.409  -122.212 10.0  0.6 2.5MC 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG       045 32.16   37              38.0  7.7      0 -0.41 0 73.63 219
 FNBB BE ISG       045 41.65                                  -0.41 0 73.63 219
 FNBB BE  AMP      045 42.91       133.6 0.44                          73.63 219
 BMBC BZ EP        046 15.29                                    1.0  9 374.7 179

112- 2009  320 0701 42.3   59.100  -122.567 10.0  0.0 2.0MC 2.0ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG       7 1 48.73   23              47.3  6.7      0  0.01 0 34.52 228
 FNBB BE ISG       7 1 53.41                                   0.01 0 34.52 228
 FNBB BE  AMP      7 1 54.85       190.3 0.62                          34.52 228
 FNBB BN  AMP      7 1 56.44       216.6 0.72                          34.52 228

113- 2009  328 2242 55.3   59.139  -121.861 10.0  0.0 2.1MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG      2243  8.00   23              66.7 12.8      0  0.01 0 71.57 248
 FNBB BN  AMP     2243 11.24       112.2 0.63                          71.57 248
 FNBB BE  AMP     2243 13.65       117.2 0.50                          71.57 248
 FNBB BN ISG      2243 17.24                                   0.01 0 71.57 248
 BMBC BZ EP       2243 46.36                                  -0.1  9 344.9 183

114- 2009  331 1540 39.8   59.471  -122.285 10.0  0.3 2.2MC 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG      1540 53.16   24              32.3  6.4      0 -0.21 0 76.82 213
 FNBB BN  AMP     1540 58.11       150.0 0.68                          76.82 213
 FNBB BE  AMP     1540 58.90       117.1 0.62                          76.82 213
 FNBB BN ISG      1541  3.05                                  -0.21 0 76.82 213
 BMBC BZ EP       1541 35.93                                   0.5  9 381.6 179

115- 2009  4 5 0947 26.0   59.358  -122.062 10.0  0.2 2.6MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       947 39.13   39              45.8  7.9      0 -0.11 0 75.23 227
 FNBB BN ESG       947 48.82                                  -0.11 0 75.23 227
 FNBB BN  AMP      947 54.32       181.8 0.56                          75.23 227
 FNBB BE  AMP      947 54.33       181.6 0.55                          75.23 227
 BMBC BZ EP        948 20.40                                    0.3  9 369.0 181

116- 2009  4 8 2127 37.7   59.403  -122.057  6.2  0.1 2.3MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2127 51.70   29              43.4  5.6      0  0.11 0 78.95 224
 FNBB BN ESG      2128  1.66                                  -0.11 0 78.95 224
 FNBB BN  AMP     2128  6.14       157.1 0.12                          78.95 224
 FNBB BE  AMP     2128  6.79       185.3 0.24                          78.95 224
 BMBC BZ EP       2128 32.92                                    0.1  9 374.0 181
 YKW3 BZ EP       2128 52.07                                   -0.1  8 530.2  46

117- 2009  4 8 2130 23.6   59.310  -121.982 10.0  0.0 2.3MC 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2130 36.83   30              51.1  7.8      0  0.01 0 75.19 232
 FNBB BE ESG      2130 46.52                                   0.01 0 75.19 232
 FNBB BN  AMP     2130 49.44       138.8 0.19                          75.19 232
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 FNBB BE  AMP     2130 52.48       144.1 0.17                          75.19 232
 BMBC BZ EP       2131 16.93                                  0.0  9 363.7 181

118- 2009  4 9 1634  1.5   59.345  -122.047  6.5  0.2 2.2MC 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1634 14.46   25              47.0 16.3      0 -0.21 0 74.87 228
 FNBB BN ESG      1634 24.47                                     0.21 0 74.87 228
 FNBB BN  AMP     1634 29.13       136.0 0.08                          74.87 228
 FNBB BE  AMP     1634 29.52       151.7 0.10                          74.87 228
 YKW3 BZ EP       1635 16.54                                  0.1  8 534.3  46

119- 2009  414 0312 33.2   59.732  -122.445 10.0  0.2 2.4MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG       312 50.45   30              18.7  6.5      0 -0.11 0 99.12 199
 FNBB BE  AMP      312 54.10       133.3 0.82                          99.12 199
 FNBB BN  AMP      312 54.16       215.1 0.77                          99.12 199
 FNBB BN ISG       313  3.09                                    -0.11 0 99.12 199
 BMBC BZ EP        313 32.80                                     0.3  9 411.0 177

120- 2009  414 1717 42.9   59.406  -122.043 10.0  0.4 2.2MC 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1717 57.23   24              43.5  8.6      0  0.31 0 79.75 224
 FNBB BE  AMP     1718  1.80        85.4 0.44                          79.75 224
 FNBB BN  AMP     1718  1.94        74.5 0.41                          79.75 224
 FNBB BN ESG      1718  7.48                                     0.31 0 79.75 224
 BMBC BZ EP       1718 37.00                                    -0.7  9 374.3 181

121- 2009  416 1922 43.2   59.069  -122.451 10.0  0.2 2.4MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1922 50.01   37              58.0 15.0      0 -0.11 0 37.80 238
 FNBB BE  AMP     1922 52.15       386.8 0.55                          37.80 238
 FNBB BN  AMP     1922 53.23       428.3 0.52                          37.80 238
 FNBB BE ESG      1922 55.09                                    -0.11 0 37.80 238
 BMBC BZ EP       1923 33.63                                     0.3  9 337.3 177

122- 2009  418 2338 10.3   59.249  -121.923 10.0  0.0 2.4MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2338 23.35   31              56.9 43.9      0  0.01 0 74.04 238
 FNBB BN  AMP     2338 28.43       227.8 0.79                          74.04 238
 FNBB BN ESG      2338 32.89                                     0.01 0 74.04 238
 FNBB BE  AMP     2338 33.17       225.8 0.48                          74.04 238
 BMBC BZ EP       2339  2.91                                     0.0  9 357.0 182

123- 2009  421 1007 48.2   59.143  -121.589 10.0  0.1 2.5MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      10 8  3.40   35              70.4  6.1      0  0.11 0 86.33 252
 FNBB BN ESG      10 8 14.46                                     0.11 0 86.33 252
 FNBB BE  AMP     10 8 19.53       135.1 0.82                          86.33 252
 FNBB BN  AMP     10 8 19.79       138.6 0.72                          86.33 252
 BMBC BZ EP       10 8 39.27                                    -0.2  9 346.5 186

124- 2009  424 2313 53.4   59.210  -122.611 10.0  0.0 2.0MC 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2314  1.09   22              32.6 17.1      0  0.01 0 42.28 213
 FNBB BE  AMP     2314  2.75       215.3 0.53                          42.28 213
 FNBB BE ESG      2314  6.72                                     0.01 0 42.28 213

125- 2009  5 1 1307 32.4   59.218  -122.083 10.0  0.3 2.4MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      13 7 43.75   32              55.1 10.3      0 -0.11 0 64.50 236
 FNBB BN  AMP     13 7 48.52       269.0 0.58                          64.50 236
 FNBB BE  AMP     13 7 50.34       370.9 0.63                          64.50 236
 FNBB BN ESG      13 7 52.02                                    -0.21 0 64.50 236
 BMBC BZ EP       13 8 24.91                                     0.4  9 353.4 180

126- 2009  5 9 1944 36.9   59.291  -122.041 13.7  0.1 2.9MC 2.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1944 49.42   60              50.4 16.4      0 -0.11 0 71.26 232
 FNBB BE ESG      1944 58.94                                     0.21 0 71.26 232
 FNBB BN  AMP     1945  6.91       269.4 0.82                          71.26 232
 FNBB BE  AMP     1945 10.12       270.2 0.69                          71.26 232
 BMBC BZ EP       1945 29.48                                    -0.1  9 361.6 181
 YKW3 BN  AMP     1946  5.00        14.7 0.93                          538.2  45
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 YKW3 BE  AMP     1946  7.83        14.8 0.62                          538.2  45
 YKW3 BE ES       1946 45.96                                  0.1  8 538.2  45

127- 2009  611 0142 34.0   59.222  -122.091 10.0  0.3 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG       142 45.60                  54.6 10.3      0  0.21 0 64.37 235
 FNBB BE ISG       142 53.95                                    0.21 0 64.37 235
 FNBB BE  AMP      142 55.37       153.7 0.55                          64.37 235
 BMBC BZ EP        143 25.62                                 -0.5  9 353.8 180

128- 2009  615 2156 10.0   59.396  -122.105 10.0  0.0 2.0MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2156 23.45   21              42.2  9.9      0  0.01 0 76.51 223
 FNBB BN ESG      2156 33.30                                   0.01 0 76.51 223
 FNBB BE  AMP     2156 37.85        92.9 0.21                          76.51 223
 FNBB BN  AMP     2156 38.08       118.9 0.00                          76.51 223
 BMBC BZ EP       2157  4.65                                  0.1  9 373.2 180

129- 2009  616 0012 17.8   59.304  -122.847 10.0  0.0 1.9MC 2.0ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       012 26.26   21              11.4  9.9      0  0.01 0 47.02 192
 FNBB BE  AMP      012 28.36        96.4 0.34                          47.02 192
 FNBB BN  AMP      012 30.09       159.6 0.74                          47.02 192
 FNBB BE ESG       012 32.47                                  0.01 0 47.02 192

130- 2009  716 0638 24.6   59.277  -123.029 10.0  0.0 1.8MC 2.0ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       638 32.45   18             358.5  8.9      0  0.01 0 43.03 178
 FNBB BN  AMP      638 36.60       159.8 0.53                          43.03 178
 FNBB BN ESG       638 38.16                                  0.01 0 43.03 178

131- 2009  725 1141 20.3   59.116  -122.539 10.0  0.0 1.4MC 1.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1141 27.09   12              46.9  7.8      0  0.01 0 36.89 227
 FNBB BE  AMP     1141 28.74        44.0 0.48                          36.89 227
 FNBB BN  AMP     1141 30.22        53.5 0.55                          36.89 227
 FNBB BN ESG      1141 32.06                                  0.01 0 36.89 227

132- 2009  729 1503 12.5   59.334  -122.761 10.0  0.0 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       15 3 21.76                 16.0  7.3      0  0.01 0 51.41 196
 FNBB BE  AMP      15 3 25.08       139.3 0.58                          51.41 196
 FNBB BN  AMP      15 3 26.52       153.0 0.62                          51.41 196
 FNBB BE ESG       15 3 28.51                                  0.01 0 51.41 196

133- 2009  815 1055  8.5   59.130  -122.552 10.0  0.0 1.7MC 1.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1055 15.38   16              44.4 22.0      0  0.01 0 37.47 225
 FNBB BE  AMP     1055 17.30       139.7 0.55                          37.47 225
 FNBB BN  AMP     1055 18.96       106.3 0.61                          37.47 225
 FNBB BN ESG      1055 20.42                                  0.01 0 37.47 225

134- 2009  822 1327 12.9   59.067  -122.818 10.0  0.0 1.4MC 1.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1327 17.31   12              29.1 10.4      0  0.01 0 22.58 209
 FNBB BE  AMP     1327 19.12       155.6 0.50                          22.58 209
 FNBB BN  AMP     1327 20.24       183.2 0.52                          22.58 209
 FNBB BN ESG      1327 20.55                                  0.01 0 22.58 209

135- 2009  823 2313 23.6   59.177  -122.957 10.0  0.0 2.1MC 1.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2313 29.56   28               5.4 14.7      0  0.01 0 32.05 185
 FNBB BN  AMP     2313 33.10       132.5 0.77                          32.05 185
 FNBB BE ESG      2313 33.94                                  0.01 0 32.05 185

136- 2009  824 0535 51.2   59.292  -122.635 10.0  0.0 1.8MC 1.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       536  0.16   18              25.5 27.8      0  0.01 0 49.61 206
 FNBB BE  AMP      536  2.50        61.6 0.48                          49.61 206
 FNBB BN  AMP      536  4.36       133.9 0.86                          49.61 206
 FNBB BE ESG       536  6.69                                  0.01 0 49.61 206

137- 2009  827 2019 17.8   59.121  -122.801 10.0  0.0 1.7MC 1.6ML
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 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2019 23.16   17              24.9 10.8      0  0.01 0 28.33 205
 FNBB BE ESG      2019 27.09                                     0.01 0 28.33 205
 FNBB BE  AMP     2019 28.19        89.3 0.62                           28.33 205
 FNBB BN  AMP     2019 29.48        92.3 0.68                           28.33 205

138- 2009  911 0857 34.0   59.029  -122.324 10.0  0.2 2.2MC 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       857 41.82   30              68.4  6.3      0  0.11 0 42.37 249
 FNBB BE  AMP      857 44.32       173.1 0.63                           42.37 249
 FNBB BN  AMP      857 45.67       227.7 0.58                           42.37 249
 FNBB BN ESG       857 47.46                                     0.11 0 42.37 249
 BMBC BZ EP        858 23.18                                    -0.3  9 332.5 178

139- 2009 1010 0852 21.3   58.720  -122.099 10.0  0.5 2.2MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       852 31.60   26             109.4  8.1      0  0.31 0 55.95 290
 FNBB BE  AMP      852 34.57       132.2 0.66                           55.95 290
 FNBB BN  AMP      852 35.15       203.7 0.68                           55.95 290
 FNBB BN ESG    C  852 38.91                                     0.31 0 55.95 290
 BMBC BZ EP        853  5.86                                    -0.71 0 297.9 180

140- 2009 1010 2132 59.5   59.381  -122.730 10.0  0.6 2.7MC 2.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2133  9.75   49              16.2  7.1      0  0.11 0 56.96 196
 FNBB BE  AMP     2133 12.47       739.6 0.62                           56.96 196
 FNBB BN  AMP     2133 13.82       660.6 0.50                           56.96 196
 FNBB BE ESG      2133 17.19                                     0.11 0 56.96 196
 BMBC BZ EP       2133 53.27                                    -0.8  9 373.2 174
 YKW3 BN ES       2135 14.73                                     0.9  8 560.0  48

141- 2009 1020 0710 10.7   59.030  -122.662 10.0  0.1 2.2MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       710 15.48   29              52.0 10.5      0 -0.11 0 25.34 232
 FNBB BE  AMP      710 17.42       458.0 0.58                           25.34 232
 FNBB BN  AMP      710 18.81       519.7 0.62                           25.34 232
 FNBB BN ESG       710 19.05                                    -0.11 0 25.34 232
 BMBC BZ EP        711  0.60                                     0.2  9 333.9 174

142- 2009 1023 2007 20.1   59.259  -121.943 10.0  0.0 2.1MC 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      20 7 33.10   23              55.7  7.9      0  0.01 0 73.64 237
 FNBB BN ESG      20 7 42.59                                     0.01 0 73.64 237
 FNBB BN  AMP     20 7 45.02        88.5 0.83                           73.64 237

143- 2009 1121 0425  3.0   58.789  -121.463 10.0  1.2 2.7MC 2.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       425 20.61   39              96.7  8.9      0  1.71 0 90.01 278
 FNBB BE  AMP      425 23.45       187.8 0.39                           90.01 278
 FNBB BN  AMP      425 23.57       250.5 0.66                           90.01 278
 FNBB BN ESG       425 29.36                                    -1.21 0 90.01 278
 HILA BZ EP        425 39.41                                    -0.51 0 259.0  94

144- 2009 1124 0534 45.8   59.425  -121.749 10.0  2.2 2.3MC 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       535  5.17   26              45.3  9.7     -4  3.01 0 93.52 231
 FNBB BE  AMP      535  7.18        56.8 0.63                           93.52 231
 FNBB BN  AMP      535  8.58        47.2 0.58                           93.52 231
 FNBB BN ESG       535 12.11                                    -2.11 0 93.52 231
 HILA BZ EP        535 25.38                                    -0.91 0 288.5 108

145- 2009 12 9 2334 46.6   59.106  -124.526 19.7  0.7 3.1MC 3.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2335  1.91   65             284.6  5.3      0  0.01 0 90.42 105
 FNBB BN ESG      2335 13.12                                     0.01 0 90.42 105
 FNBB BE  AMP     2335 18.70       628.3 0.62                           90.42 105
 FNBB BN  AMP     2335 26.20       680.0 0.77                           90.42 105
 HILA BZ EP       2335 47.09                                    -1.0  9 437.6  95
 MANA BZ EP       2335 54.11                                     1.0  8 478.2 119

146- 2009 1218 0336 37.3   59.297  -121.966 10.0  0.3 2.6MC 2.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       336 50.75   39              52.4 11.2      0  0.21 0 75.04 233
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 FNBB BE  AMP      336 55.55       381.6 0.55                          75.04 233
 FNBB BN  AMP      336 57.21       354.5 0.63                          75.04 233
 FNBB BE ESG       337  0.42                                  0.21 0 75.04 233
 HILA BZ EP        337 21.91                                 -0.41 0 296.5 104

147- 2009 1224 0032 36.4   59.541  -121.904 10.0  4.0 2.7MC 2.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       033  4.25   32             22.9  7.3    -17  5.71 0 96.12 222
 FNBB BE  AMP      033 10.68       235.0 0.61                          96.12 222
 FNBB BE ESG       033 11.62                                 -3.11 0 96.12 222
 FNBB BN  AMP      033 12.00       134.4 0.50                          96.12 222
 HILA BZ EP        033 21.11                                  1.01 0 300.9 109
 MANA BZ EP        033 26.30                                 -4.4  9 390.3 138

148- 2009 1224 2109 53.1   58.902  -121.401 10.0  1.0 2.3MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2110 10.23   27             88.5 15.4      0  0.81 0 92.75 270
 FNBB BE  AMP     2110 12.44        78.8 0.61                          92.75 270
 FNBB BN  AMP     2110 13.86        87.4 0.48                          92.75 270
 FNBB BN ESG      2110 21.80                                  0.61 0 92.75 270
 HILA BZ EP       2110 31.69                                 -1.41 0 256.6  97

149- 2009 1228 0021 51.8   59.279  -121.922 10.0  2.7 3.0MC 3.0ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       022 16.17   45             46.3  7.5     -7  3.61 0 75.95 236
 FNBB BN  AMP      022 19.62       320.9 0.76                          75.95 236
 FNBB BE ESG       022 25.86                                 -1.81 0 75.95 236
 FNBB BE  AMP      022 39.71       200.8 0.77                          75.95 236
 HILA BZ EP        022 35.80                                  1.21 0 293.6 104
 MANA BZ EP        022 40.22                                 -3.4  9 369.8 135

150- 2009 1228 0813 57.3   59.244  -121.959 10.0  2.1 2.4MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       814 11.44   33             56.4  7.0      0  1.41 0 72.00 237
 FNBB BE  AMP      814 13.96       103.3 0.43                          72.00 237
 FNBB BN  AMP      814 14.81       115.9 0.69                          72.00 237
 FNBB BE ESG       814 20.73                                  1.41 0 72.00 237
 HILA BZ EP        814 39.00                                 -3.01 0 294.7 103

151- 2010  117 0614 28.3   58.985  -121.712 10.0  4.8 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       614 44.91                 81.4 17.3      0  3.31 0 75.46 263
 FNBB BE  AMP      614 49.83       187.0 0.55                          75.46 263
 FNBB BN  AMP      614 51.50       314.9 0.61                          75.46 263
 FNBB BE ESG       614 54.63                                  3.31 0 75.46 263
 HILA BZ EP        615  3.68                                 -6.91 0 275.6  98

152- 2010  220 1156 55.1   59.509  -122.235 10.0  0.7 2.4MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1157  9.91   30             32.4  6.9      0  0.41 0 81.91 213
 FNBB BE ESG      1157 20.42                                  0.41 0 81.91 213
 FNBB BE  AMP     1157 22.44       144.0 0.44                          81.91 213
 FNBB BN  AMP     1157 24.22       147.7 0.52                          81.91 213
 BMBC BZ EP       1157 50.15                                 -1.1  9 385.8 179

153- 2010  3 6 1340  7.9   58.523  -121.526 10.0  2.3 2.5MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1340 28.21   33            114.4  9.1      0  3.71 0 95.25 296
 FNBB BN  AMP     1340 32.14       180.8 0.66                          95.25 296
 FNBB BE ESG      1340 34.11                                 -2.61 0 95.25 296
 FNBB BE  AMP     1340 36.66       113.2 0.73                          95.25 296
 HILA BZ EP       1340 48.38                                 -0.21 0 262.4  87
 MANA BZ EP       1340 51.89                                 -1.01 0 297.1 127

154- 2010  3 8 0957 45.0   58.863  -121.421 10.0  2.0 2.7MC 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       958  3.82   41             91.0  8.5      0  2.71 0 91.69 273
 FNBB BN ESG       958 10.97                                 -2.01 0 91.69 273
 FNBB BN  AMP      958 12.31       204.7 0.74                          91.69 273
 FNBB BE  AMP      958 16.74       199.6 0.81                          91.69 273
 HILA BZ EP        958 20.91                                 -0.71 0 257.3  96

155- 2010  313 1256 16.9   58.655  -121.561 10.0  1.8 2.3MC 2.3ML
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 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1256 35.14   26             107.9  7.9      1  2.51 0 87.80 288
 FNBB BN  AMP     1256 38.77       122.1 0.64                          87.80 288
 FNBB BE  AMP     1256 41.26        86.2 0.67                          87.80 288
 FNBB BN ESG      1256 42.44                                    -1.61 0 87.80 288
 HILA BZ EP       1256 53.54                                    -0.91 0 264.2  90

156- 2010  313 2150  7.2   58.308  -121.949 10.0  0.0 2.6MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2150 22.84   37             136.0  9.7      0  0.01 0 89.50 317
 FNBB BN ESG      2150 34.30                                    0.01 0 89.50 317
 FNBB BE  AMP     2150 40.88       174.1 0.69                          89.50 317
 FNBB BN  AMP     2150 46.65       155.7 0.83                          89.50 317
 MANA BZ EP       2150 53.17                                    0.11 0 304.4 120

157- 2010  330 0112 23.0   59.356  -121.610 10.0  2.9 2.6MC 2.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       112 46.61   30              45.0  8.1    -10  3.91 0 95.49 238
 FNBB BN  AMP      112 51.49       149.5 0.75                          95.49 238
 FNBB BE  AMP      112 51.85       122.3 0.78                          95.49 238
 FNBB BN ESG       112 54.90                                   -2.11 0 95.49 238
 HILA BZ EP        113  4.39                                    1.31 0 278.7 107
 MANA BZ EP        113  9.82                                   -3.6  9 363.9 138

158- 2010  424 2243  8.8   58.908  -121.885 10.0  0.0 2.0MC 2.0ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2243 20.29   20              87.8  6.0      0  0.01 0 64.88 269
 FNBB BN ESG      2243 28.70                                    0.01 0 64.88 269
 FNBB BE  AMP     2243 29.83        89.2 0.72                          64.88 269
 FNBB BN  AMP     2243 37.86        86.5 0.91                          64.88 269

159- 2010  426 2333 52.3   59.169  -122.035 10.0  0.0 1.9MC 1.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2334  3.66   18              60.6 19.7      0  0.01 0 63.97 241
 FNBB BN  AMP     2334  7.25        62.4 0.76                          63.97 241
 FNBB BE  AMP     2334 11.33        69.8 0.58                          63.97 241
 FNBB BN ESG      2334 11.96                                    0.01 0 63.97 241

160- 2010  429 1529  5.4   58.657  -122.947 10.0  0.0 2.0MC 1.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1529 10.40   23             172.0  4.6      0  0.01 0 26.23 352
 FNBB BE ESG      1529 14.08                                    0.01 0 26.23 352
 FNBB BE  AMP     1529 14.80       206.5 0.57                          26.23 352
 FNBB BN  AMP     1529 14.81       195.6 0.61                          26.23 352

161- 2010  430 1245 49.1   59.489  -122.318 10.0  0.0 1.8MC 1.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1246  2.77   16              30.4  5.5      0  0.01 0 77.50 211
 FNBB BE  AMP     1246  8.83        39.0 0.55                          77.50 211
 FNBB BN  AMP     1246  9.06        34.7 0.64                          77.50 211
 FNBB BN ESG      1246 12.74                                    0.01 0 77.50 211

162- 2010  5 8 2012 16.3   58.723  -122.915 10.0  0.0 1.9MC 1.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2012 20.26   22             163.7 11.9      0  0.01 0 19.44 344
 FNBB BE  AMP     2012 22.15       269.8 0.47                          19.44 344
 FNBB BN ESG    D 2012 23.14                                    0.01 0 19.44 344
 FNBB BN  AMP     2012 23.60       340.2 0.51                          19.44 344

163- 2010  517 2212 14.6   58.551  -121.774 10.0  2.0 2.7MC 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2212 32.58   42             117.0  9.1      0  3.11 0 80.94 298
 FNBB BE  AMP     2212 34.67       202.2 0.60                          80.94 298
 FNBB BN  AMP     2212 36.03       231.4 0.64                          80.94 298
 FNBB BE ESG      2212 38.02                                   -2.31 0 80.94 298
 HILA BZ EP       2212 53.65                                   -0.11 0 276.7  88
 MANA BZ EP       2212 57.08                                   -0.81 0 310.6 126

164- 2010  530 2137 19.0   59.250  -122.160 10.0  0.0 1.7MC 1.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2137 30.16   15              50.2 15.6      0  0.01 0 63.07 231
 FNBB BE  AMP     2137 36.00        49.4 0.49                          63.07 231
 FNBB BN ESG      2137 38.35                                    0.01 0 63.07 231
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 FNBB BN  AMP     2137 39.47        49.1 0.50                           63.07 231

165- 2010  6 5 0530 57.9   59.421  -122.158 10.0  4.1 2.7MC 2.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       531 23.91   35              23.9  4.5    -14  5.81 0 76.58 220
 FNBB BE  AMP      531 25.67       112.8 0.57                          76.58 220
 FNBB BN  AMP      531 27.35       197.0 0.60                          76.58 220
 FNBB BN ESG       531 29.59                                       -3.31 0 76.58 220
 HILA BZ EP        531 43.77                                        1.21 0 310.6 106
 MANA BZ EP        531 47.66                                       -4.4  9 390.4 135

166- 2010  6 7 1937 55.0   59.592  -122.495 10.0  0.5 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1938 10.01                  20.4 11.3      0  0.31 0 83.50 201
 FNBB BN ESG      1938 20.72                                    0.31 0 83.50 201
 FNBB BN  AMP     1938 23.96       127.7 0.11                          83.50 201
 FNBB BE  AMP     1938 24.19        94.6 0.14                          83.50 201
 MANA BZ EP       1938 54.19                                      -0.8  9 417.4 135

167- 2010  6 7 1938 26.4   59.585  -122.467 10.0  0.3 2.6MC 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1938 40.85   37             21.6  8.9      0 -0.21 0 83.35 202
 FNBB BN ESG      1938 51.54                                   -0.21 0 83.35 202
 FNBB BN  AMP     1938 54.80       256.2 0.14                          83.35 202
 FNBB BE  AMP     1938 54.99       276.9 0.23                          83.35 202
 HILA BZ EP       1939 16.35                                    0.5  9 332.7 108

168- 2010  6 7 2016 15.5   59.537  -122.377 10.0  0.2 2.3MC 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2016 29.52   29             26.4  5.5      0 -0.21 0 80.59 207
 FNBB BN ESG      2016 39.87                                   -0.21 0 80.59 207
 FNBB BN  AMP     2016 43.30       147.5 0.08                          80.59 207
 FNBB BE  AMP     2016 43.55       123.8 0.20                          80.59 207
 HILA BZ EP       2017  4.48                                    0.4  9 326.2 107

169- 2010  6 8 0644 49.3   59.455  -122.317 10.0  0.1 2.2MC 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       645  2.45   25             31.9  6.9      0  0.11 0 74.34 212
 FNBB BN ESG       645 12.03                                    0.11 0 74.34 212
 FNBB BE  AMP      645 17.37        85.8 0.57                          74.34 212
 FNBB BN  AMP      645 20.56        89.0 0.60                          74.34 212
 MANA BZ EP        645 46.82                                      -0.2  9 399.5 134

170- 2010  6 9 0824 46.2   59.452  -122.515 10.0  0.5 2.3MC 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       824 58.69   29             24.1  7.5      0  0.31 0 68.67 205
 FNBB BE ESG       825  7.57                                    0.31 0 68.67 205
 FNBB BE  AMP      825 12.70       216.6 0.19                          68.67 205
 FNBB BN  AMP      825 12.83       116.8 0.10                          68.67 205
 HILA BZ EP        825 34.76                                      -0.7  9 331.1 105

171- 2010  611 2225 17.6   59.550  -122.328 12.3  0.3 3.4MC 3.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2225 32.58   99             28.6 25.2      1  0.41 0 83.13 208
 FNBB BN ISG      2225 42.46                                   -0.41 0 83.13 208
 FNBB BN  AMP     2225 46.70      2185.2 0.10                          83.13 208
 FNBB BE  AMP     2225 47.07      2001.3 0.14                          83.13 208
 HILA BZ EP       2226  5.86                                    0.2  9 324.0 108
 MANA BZ EP       2226 16.22                                    0.2  9 407.4 135
 MANA BN ES       2226 58.63                                    0.0  9 407.4 135
 YKW3 EZ EP       2226 30.68                                   -0.6  8 530.5  49
 FSB  EZ ES       2227 35.41                                    0.0  8 577.7 193

172- 2010  612 1254 26.9   59.397  -122.332 10.0  0.0 2.0ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1254 38.99                  34.2  5.1      0  0.01 0 68.50 215
 FNBB BN ESG      1254 47.85                                    0.01 0 68.50 215
 FNBB BN  AMP     1255  1.91        72.6 0.71                          68.50 215
 FNBB BE  AMP     1255  2.49        92.8 0.40                          68.50 215

173- 2010  616 0107 35.8   59.435  -122.443 10.0  0.4 2.3MC 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG    D  1 7 48.19   30             27.9  9.9      0  0.21 0 68.79 208
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 FNBB BE ESG       1 7 57.08                                    0.21 0 68.79 208
 FNBB BN  AMP      1 8  2.15       196.3 0.08                        68.79 208
 FNBB BE  AMP      1 8  2.54       150.6 0.25                        68.79 208
 HILA BZ EP        1 8 23.89                                   -0.5  9 326.6 105

174- 2010  625 2247 31.3   59.431  -122.373 10.0  0.0 2.4MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2247 43.74   33             30.9  8.8      0  0.01 0 70.38 211
 FNBB BE ESG      2247 52.83                                    0.01 0 70.38 211
 FNBB BE  AMP     2247 58.15       164.6 0.16                        70.38 211
 FNBB BN  AMP     2247 58.16       209.1 0.07                        70.38 211
 HILA BZ EP       2248 19.44                                    0.0  9 322.7 105

175- 2010  719 0534 46.8   59.479  -122.421 14.0  0.2 2.7MC 2.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       534 59.70   44             27.0  5.09     0 -0.11 0 73.66 207
 FNBB BN ISG       535  9.49                                    0.11 0 73.66 207
 FNBB BE  AMP      535 14.03       395.0 0.21                        73.66 207
 FNBB BN  AMP      535 14.08       360.5 0.18                        73.66 207
 HILA BZ EP        535 35.22                                    0.2  9 326.7 106
 MANA BZ EP        535 44.53                                   -0.2  9 405.6 134

176- 2010  725 1304 53.4   59.110  -121.653 10.0  2.7 2.8MC 2.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG      13 5 11.89   47             63.8  8.0     -7  3.41 0 81.69 253
 FNBB BE  AMP     13 5 14.40       294.2 0.59                        81.69 253
 FNBB BN  AMP     13 5 16.09       435.7 0.63                        81.69 253
 FNBB BE ESG      13 5 17.23                                   -2.31 0 81.69 253
 HILA BZ EP       13 5 33.82                                    1.61 0 274.5 101
 MANA BZ EP       13 5 37.91                                   -3.1  9 345.6 135

177- 2010  726 2340 54.4   59.608  -122.638 10.0  0.8 2.0MC 2.0ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2341  9.47   19             14.7 39.0      0  0.51 0 82.71 195
 FNBB BN ESG      2341 20.08                                    0.51 0 82.71 195
 FNBB BN  AMP     2341 21.89        61.2 0.58                        82.71 195
 FNBB BE  AMP     2341 25.49        54.1 0.76                        82.71 195
 MANA BZ EP       2341 53.92                                   -1.3  9 424.4 134

178- 2010  8 3 2015 35.8   59.410  -122.312 10.0  0.3 2.7MC 2.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2015 48.44   45                                    0.21 0 70.32 215
 FNBB BE ESG      2015 57.53                                    0.21 0 70.32 215
 FNBB BE  AMP     2016  2.74       305.3 0.25                        70.32 215
 FNBB BN  AMP     2016  3.01       562.1 0.16                        70.32 215
 DLBC BZ EP       2016 40.74                                   -0.1  8 457.2 260
 FSB  EZ EP       2016 53.24                                   -0.6  8 562.8 193

179- 2010  8 5 1912 10.5   59.054  -123.803 10.0  0.0 2.3MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1912 19.31   32            292.1 19.3      0  0.01 0 49.15 111
 FNBB BN  AMP     1912 24.09       292.1 0.86                        49.15 111
 FNBB BE ESG      1912 25.79                                    0.01 0 49.15 111
 FNBB BE  AMP     1912 26.94       286.9 0.63                        49.15 111
 MANA BZ EP       1913 13.13                                    0.0  9 439.3 121

180- 2010  822 0930 21.9   59.396  -122.251 10.0  0.5 2.4MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       930 34.77   33             37.3  8.4      0  0.31 0 71.12 218
 FNBB BN ESG       930 43.95                                    0.31 0 71.12 218
 FNBB BE  AMP      930 48.52       334.0 0.10                        71.12 218
 FNBB BN  AMP      930 48.76       150.2 0.18                        71.12 218
 MANA BZ EP        931 17.92                                   -0.8  9 392.2 134

181- 2010  826 1517 47.1   59.459  -121.828 10.0  4.1 2.4MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1518 13.83   24             29.4  6.5    -16  5.61 0 92.66 227
 FNBB BN  AMP     1518 18.25        84.3 0.76                        92.66 227
 FNBB BE  AMP     1518 18.49        54.9 0.46                        92.66 227
 FNBB BN ESG      1518 20.57                                   -3.11 0 92.66 227
 HILA BZ EP       1518 31.19                                    1.51 0 293.9 108
 MANA BZ EP       1518 35.24                                   -4.8  9 380.6 138
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182- 2010 9 4 0904 25.5   59.400 -122.054 10.0 0.1 2.5MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   9 4 39.46   35   43.5 16.3   0 0.11 0 78.84 224
 FNBB BE ESG   9 4 49.60   0.11 0 78.84 224
 FNBB BE AMP   9 4 53.89   198.2 0.75   78.84 224
 FNBB BN AMP   9 5 2.18   208.8 0.61   78.84 224
 HILA BZ ES   9 5 44.75   -0.21 0 304.3 106

183- 2010 9 7 0557 29.4   59.544 -122.589 10.0 1.2 2.6MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   557 42.11   39   18.1 8.6   0 -0.81 0 76.68 198
 FNBB BE AMP   557 50.10   184.7 0.51   76.68 198
 FNBB BN ESG   557 51.98   -0.81 0 76.68 198
 FNBB BN AMP   557 58.25   224.1 0.55   76.68 198
 HILA BZ EP   558 21.34   1.9 9 337.9 107

184- 2010 9 7 1139 34.6   59.346 -122.292 10.0 0.4 2.3MC 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   1139 46.49   30   38.7 7.7   0 0.31 0 65.32 219
 FNBB BE AMP   1139 49.12   187.2 0.55   65.32 219
 FNBB BN AMP   1139 52.54   201.4 0.63   65.32 219
 FNBB BE ESG   1139 54.96   0.31 0 65.32 219
 HILA BZ EP   1140 21.28   -0.71 0 315.8 104

185- 2010 916 0206 55.7   58.304 -122.715 10.0 0.0 2.4MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   2 7 7.70   34   165.2 7.7   0 0.01 0 67.55 345
 FNBB BN AMP   2 7 13.41   257.0 0.63   67.55 345
 FNBB BN ESG   2 7 16.44   0.01 0 67.55 345
 FNBB BE AMP   2 7 19.20   180.8 0.66   67.55 345

186- 2010 918 2201 16.6   59.195 -122.618 10.0 1.6 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   22 1 25.11   33.3 14.7   0 1.01 0 40.71 214
 FNBB BE AMP   22 1 27.08   210.8 0.55   40.71 214
 FNBB BN AMP   22 1 28.46   238.7 0.55   40.71 214
 FNBB BE ESG   22 1 30.55   1.01 0 40.71 214
 HILA BZ EP   22 2 3.48   -2.3 9 330.6 100

187- 2010 923 0534 36.1   59.520 -122.563 10.0 2.2 2.8MC 2.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   534 48.06   51   19.8 5.2   0 -1.21 0 74.64 200
 FNBB BN AMP   534 51.97   552.6 0.60   74.64 200
 FNBB BE AMP   534 50.58   581.9 0.55   74.64 200
 FNBB BE ESG   534 57.77   -1.11 0 74.64 200
 YKW3 BZ EP   535 55.36   3.8 8 542.6 49

188- 2010 923 1720 19.3   59.282 -122.383 10.0 0.3 2.4MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   1720 29.57   33   39.2 11.9   0 0.21 0 56.52 220
 FNBB BN AMP   1720 33.13   319.4 0.68   56.52 220
 FNBB BN ESG   1720 36.95   0.21 0 56.52 220
 FNBB BE AMP   1720 31.43   315.1 0.69   56.52 220
 MANA BZ EP   1721 15.21   -0.5 9 389.1 132

189- 2010 926 1832 59.8   59.387 -122.289 10.0 0.2 2.1MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   1833 11.93   22   36.4 9.5   0 -0.11 0 69.01 217
 FNBB BE AMP   1833 15.52   90.5 0.67   69.01 217
 FNBB BN AMP   1833 19.25   184.8 0.51   69.01 217
 FNBB BN ESG   1833 20.85   -0.11 0 69.01 217
 MANA BZ EP   1833 56.97   0.2 9 393.1 134

190- 2010 927 1622 49.2   59.168 -122.510 10.0 0.6 2.4MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   1622 57.53   36   42.6 13.9   0 0.61 0 42.19 223
 FNBB BE AMP   1622 59.59   410.1 0.58   42.19 223
 FNBB BN AMP   1623 0.94   476.5 0.66   42.19 223
 FNBB BE ESG   1623 2.63   0.11 0 42.19 223
 MANA BZ EP   1623 44.48   -0.8 9 386.3 130

191- 2010 930 0035 3.4   59.234 -122.490 10.0 0.0 2.1MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7

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 FNBB BZ EPG       035 12.12   24              37.7 14.8      0  0.01 0 48.55 218
 FNBB BN ESG       035 18.52                                     0.01 0 48.55 218
 FNBB BN  AMP      035 20.04       190.4 0.75                           48.55 218
 FNBB BE  AMP      035 20.72       188.5 0.61                           48.55 218

192- 2010  930 1231 43.4   59.445  -122.365 11.9  0.0 2.9MC 2.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1231 56.11   54              30.5  7.0      0  0.01 0 71.96 211
 FNBB BN ESG      1232  5.46                                     0.01 0 71.96 211
 FNBB BN  AMP     1232  9.99       414.0 0.34                           71.96 211
 FNBB BE  AMP     1232 10.31       932.8 0.20                           71.96 211
 MANA BZ EP       1232 41.02                                       0.0  9 400.7 134
 YKW3 BZ EP       1232 58.36                                       0.0  8 539.8  48

193- 2010  930 1233 35.7   59.451  -122.360  8.4  0.2 3.1MC 3.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1233 48.29   72              30.1  5.8      0 -0.21 0 72.68 211
 FNBB BN ISG      1233 58.03                                     0.21 0 72.68 211
 FNBB BE  AMP     1234  2.57       902.3 0.17                           72.68 211
 FNBB BN  AMP     1234  2.97       907.8 0.17                           72.68 211
 MANA BZ EP       1234 33.57                                      -0.2  9 401.0 134
 YKW3 BZ EP       1234 51.17                                       0.2  8 539.1  48

194- 2010  930 1625 52.1   59.438  -122.368 14.0  0.1 2.8MC 2.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1626  4.65   50              30.7 11.5      0 -0.11 0 71.16 211
 FNBB BN ISG      1626 13.99                                     0.11 0 71.16 211
 FNBB BN  AMP     1626 18.46       304.0 0.30                           71.16 211
 FNBB BE  AMP     1626 18.80       680.7 0.24                           71.16 211
 MANA BZ EP       1626 49.37                                       0.0  9 400.2 134
 YKW3 BZ EP       1627  6.91                                       0.1  8 540.5  48

195- 2010 10 3 0806 50.0   59.524  -122.299 12.7  0.1 3.4MC 3.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG       8 7  4.40   99              29.8 11.9      0  0.11 0 81.39 210
 FNBB BN ESG       8 7 14.67                                    -0.11 0 81.39 210
 FNBB BN  AMP      8 7 18.44      2141.9 0.39                           81.39 210
 FNBB BE  AMP      8 7 18.75      2034.1 0.14                           81.39 210
 MANA BZ EP        8 7 48.03                                       0.1  9 404.2 135
 YKW3 BZ EP        8 8  3.63                                      -0.1  8 531.2  48

196- 2010 10 4 1109 33.5   59.501  -122.300 11.3  0.1 2.9MC 2.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      11 9 47.56   54              30.6  7.2      0  0.11 0 79.21 211
 FNBB BN ESG      11 9 57.62                                    -0.11 0 79.21 211
 FNBB BN  AMP     1110  1.43       390.4 0.32                           79.21 211
 FNBB BE  AMP     1110  1.74       740.0 0.22                           79.21 211
 MANA BZ EP       1110 31.53                                       0.1  9 402.5 135
 YKW3 BZ EP       1110 47.62                                      -0.1  8 532.9  48

197- 2010 10 5 1330 28.8   59.490  -122.338 13.1  0.1 3.0MC 3.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1330 42.41   63              29.5  7.0      0 -0.11 0 77.07 210
 FNBB BN ISG      1330 52.46                                     0.01 0 77.07 210
 FNBB BN  AMP     1330 56.33       782.8 0.39                           77.07 210
 FNBB BE  AMP     1330 56.65       875.4 0.20                           77.07 210
 MANA BZ EP       1331 26.62                                       0.0  9 403.1 135
 YKW3 EZ EP       1331 43.15                                       0.1  8 535.3  48

198- 2010 10 5 2201 13.5   59.514  -122.314 12.9  0.6 3.5MC 3.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      22 1 28.19  115              30.5  8.1      1  0.61 0 80.01 210
 FNBB BE ESG      22 1 37.40                                    -0.51 0 80.01 210
 FNBB BN  AMP     22 1 42.20      3007.4 0.29                           80.01 210
 FNBB BE  AMP     22 1 42.49      2813.1 0.18                           80.01 210
 MANA BZ EP       22 2 11.95                                       0.5  9 404.0 135
 YKW3 EZ EP       22 2 26.82                                      -0.6  8 532.6  48

199- 2010 10 9 1000 31.2   59.489  -122.293  9.1  0.1 3.1MC 3.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      10 0 44.89   67              31.9  5.4      1  0.01 0 78.25 212
 FNBB BN ISG      10 0 54.92                                     0.01 0 78.25 212
 FNBB BN  AMP     10 0 58.72       860.9 0.21                           78.25 212
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 FNBB BE  AMP     10 0 58.87       730.7 0.15                          78.25 212
 MANA BZ EP     C 10 1 29.77                                    0.2  9 401.2 135
 YKW3 BZ EP       10 1 45.82                                   -0.2  8 533.5  48

200- 2010 1012 1709 41.6   59.398  -122.238  9.1  0.1 3.3MC 3.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      17 9 54.11   86              37.9  6.7      0 -0.21 0 71.73 218
 FNBB BN ISG      1710  3.66                                     0.11 0 71.73 218
 FNBB BE  AMP     1710  8.05      2062.9 0.15                          71.73 218
 FNBB BN  AMP     1710  8.54      2081.1 0.27                          71.73 218
 MANA BZ EP       1710 38.92                                     0.1  9 391.8 134
 YKW3 BZ EP       1710 57.09                                     0.0  8 538.1  47

201- 2010 1012 1919 44.6   59.450  -122.305  7.3  0.0 3.0MC 3.0ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1919 57.60   65              32.5  5.9      0  0.01 0 74.23 213
 FNBB BN ESG      1920  7.22                                     0.01 0 74.23 213
 FNBB BE  AMP     1920 11.80       605.2 0.11                          74.23 213
 FNBB BN  AMP     1920 12.09       856.4 0.22                          74.23 213
 MANA BZ EP       1920 42.45                                     0.0  9 398.6 134
 YKW3 BZ EP       1920 59.73                                     0.0  8 536.9  48

202- 2010 1012 2101 11.2   59.465  -122.304 12.2  0.1 3.3MC 3.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      21 1 24.68   86              32.1  5.3      0  0.11 0 75.65 213
 FNBB BN ISG      21 1 34.27                                    -0.11 0 75.65 213
 FNBB BE  AMP     21 1 38.88      1898.0 0.25                          75.65 213
 FNBB BN  AMP     21 1 39.14      1857.1 0.16                          75.65 213
 MANA BZ EP       21 2  8.80                                     0.1  9 399.7 135
 YKW3 BZ EP       21 2 25.55                                    -0.1  8 535.8  48

203- 2010 11 2 1818 36.4   58.503  -122.857 10.0  0.3 2.0ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1818 44.60                 168.3 10.2      0  0.21 0 44.05 348
 FNBB BE  AMP     1818 49.99       129.2 0.64                          44.05 348
 FNBB BN  AMP     1818 50.04       186.7 0.53                          44.05 348
 FNBB BN ESG      1818 50.44                                     0.21 0 44.05 348
 MANA BZ EP       1819 29.03                                    -0.4  9 361.3 118

204- 2010 1116 0916 16.7   59.474  -122.343 10.0  0.0 1.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       916 29.94                  30.1  5.8      0  0.01 0 75.31 211
 FNBB BE ESG       916 39.64                                     0.01 0 75.31 211
 FNBB BN  AMP      916 53.80        42.6 0.84                          75.31 211
 FNBB BE  AMP      917  2.02        21.1 0.67                          75.31 211

205- 2010 1119 0411 20.4   59.109  -123.245 10.0  0.0 1.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       411 25.71                 331.1  8.3      0  0.01 0 27.84 151
 FNBB BE  AMP      411 27.78       160.9 0.61                          27.84 151
 FNBB BN  AMP      411 29.48       267.6 0.63                          27.84 151
 FNBB BE ESG       411 29.58                                     0.01 0 27.84 151

206- 2010 12 5 0858 37.7   59.634  -122.534 29.5  0.0 2.6MC 2.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       858 52.71   37              18.0  5.8      0  0.01 0 87.20 198
 FNBB BE ESG       859  3.77                                     0.01 0 87.20 198
 FNBB BE  AMP      859  8.15       238.0 0.60                          87.20 198
 FNBB BN  AMP      859  8.24       254.1 0.65                          87.20 198
 HILA BN ES          9 0  1.13                                     0.1  9 338.0 108
 MANA BN ES          9 0 19.15                                    -0.1  9 422.3 135

207- 2010 1214 1438 50.4   59.539  -122.366 11.3  0.0 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1439  4.68                  26.7  6.0      0  0.01 0 81.05 207
 FNBB BE ESG      1439 15.09                                     0.01 0 81.05 207
 FNBB BN  AMP     1439 32.32       108.5 0.64                          81.05 207
 FNBB BE  AMP     1439 38.16       124.1 1.03                          81.05 207
 MANA BZ EP       1439 49.05                                     0.0  9 408.1 135

208- 2010 1230 1209  4.9   58.966  -121.839 10.0  0.5 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       12 9 17.29                 82.4  4.7      0  0.31 0 67.95 263
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 FNBB BN ESG      12 9 26.08                                    0.31 0 67.95 263
 FNBB BN  AMP     12 9 30.16       186.0 0.72                          67.95 263
 FNBB BE  AMP     12 9 30.76       192.0 0.59                          67.95 263
 MANA BZ EP       12 9 54.87                                   -0.7  9 342.4 132

209- 2011  1 9 0342 22.6   59.484  -122.377 10.0  0.1 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       342 35.92                  28.3  5.5      0  0.01 0 75.38 209
 FNBB BE ESG       342 45.54                                  -0.11 0 75.38 209
 FNBB BN  AMP      342 53.11       346.5 0.20                          75.38 209
 FNBB BE  AMP      342 55.40       281.2 0.37                          75.38 209
 HILA BZ EP        343 11.17                                   0.1  9 324.5 106

210- 2011  1 9 0348 34.2   59.556  -122.199 10.0  0.0 1.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       348 49.53                  31.6  7.1      0  0.01 0 87.45 212
 FNBB BN ESG       349  0.73                                   0.01 0 87.45 212
 FNBB BE  AMP      349  2.09        44.5 0.27                          87.45 212
 FNBB BN  AMP      349  2.35        46.2 0.29                          87.45 212

211- 2011  127 0111 56.3   59.439  -122.242 10.0  0.1 2.2MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       112  9.50   25             35.4  6.7      0  0.01 0 75.26 216
 FNBB BN ESG       112 19.19                                   0.01 0 75.26 216
 FNBB BN  AMP      112 29.64       106.3 0.85                          75.26 216
 FNBB BE  AMP      113 14.51       108.1 0.81                          75.26 216
 MANA BZ EP        112 53.53                                   0.1  9 395.2 135

212- 2011  129 1249 40.6   58.843  -121.462 10.0  2.4 2.6MC 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG      1249 59.70   36             92.6  4.5      0  3.21 0 89.44 274
 FNBB BE ESG      1250  5.71                                  -2.41 0 89.44 274
 FNBB BE  AMP     1250  8.61       179.6 0.77                          89.44 274
 FNBB BN  AMP     1250  8.75       159.8 0.48                          89.44 274
 HILA BZ EP       1250 16.65                                  -0.91 0 259.5  95

213- 2011  2 4 0427 42.7   59.174  -122.015 10.0  0.0 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       427 54.27                  60.6 11.4      0  0.01 0 65.26 241
 FNBB BN  AMP      427 57.46        93.5 0.46                          65.26 241
 FNBB BE ESG       428  2.73                                   0.01 0 65.26 241
 FNBB BE  AMP      428  3.71       115.3 0.55                          65.26 241

214- 2011  210 1313 12.7   58.521  -121.587 10.0  1.8 2.5MC 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1313 31.78   32                                 2.91 0 92.17 297
 FNBB BE  AMP     1313 35.29       163.8 0.76                          92.17 297
 FNBB BN  AMP     1313 36.28       196.9 0.79                          92.17 297
 FNBB BN ESG      1313 38.63                                  -2.11 0 92.17 297
 HILA BZ EP       1313 50.21                                  -0.21 0 266.0  87
 MANA BZ EP       1313 53.98                                  -0.61 0 299.8 127

215- 2011  215 0730 29.2   59.454  -122.329 10.0  0.0 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       730 42.25                  31.5  7.6      0  0.01 0 73.88 212
 FNBB BE ESG       730 51.78                                   0.01 0 73.88 212
 FNBB BE  AMP      730 57.90       131.0 0.91                          73.88 212
 FNBB BN  AMP      731  8.48       137.8 0.47                          73.88 212

216- 2011  222 1003 29.2   59.345  -121.973 10.0  0.1 2.5MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       10 3 43.05   34             49.1  9.1      0  0.11 0 78.05 230
 FNBB BE ESG       10 3 53.09                                   0.11 0 78.05 230
 FNBB BN  AMP      10 3 56.41       199.8 0.65                          78.05 230
 FNBB BE  AMP      10 4  1.57       185.3 0.60                          78.05 230
 HILA BN ES        10 4 47.17                                  -0.21 0 298.2 105

217- 2011  222 1420 40.5   59.189  -121.813 10.0  3.8 2.9MC 2.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1421  7.44   38             49.0  5.2    -14  4.81 0 76.32 245
 FNBB BN  AMP     1421 12.49       154.4 0.65                          76.32 245
 FNBB BN ESG      1421 16.20                                  -2.51 0 76.32 245
 FNBB BE  AMP     1421 17.88       157.1 0.61                          76.32 245
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 HILA BZ EP       1421 24.96                                    2.01 0 285.3 102
 MANA BZ EP       1421 26.40                                   -5.0  9 358.3 135

218- 2011  223 2224 32.1   59.623  -122.368 10.0  0.7 2.3MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2224 47.00   27              23.9  8.5      0 -0.71 0 89.45 204
 FNBB BE  AMP     2224 52.03       179.8 0.72                           89.45 204
 FNBB BN  AMP     2224 53.45       190.9 0.52                           89.45 204
 FNBB BE ESG      2225  0.13                                    0.91 0 89.45 204
 MANA BZ EP       2225 31.45                                   -0.3  9 414.8 136

219- 2011  3 3 1201  4.5   59.273  -122.951 10.0  0.4 2.3MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      12 1 11.96   32               5.0 12.0      0 -0.51 0 42.81 185
 FNBB BE  AMP     12 1 14.31       441.0 0.50                           42.81 185
 FNBB BN  AMP     12 1 15.70       461.0 0.57                           42.81 185
 FNBB BE ESG      12 1 18.43                                    0.21 0 42.81 185
 MANA BZ EP       12 2  5.53                                    0.3  9 413.2 128

220- 2011  3 4 0306 12.8   59.428  -122.426 10.0  0.0 1.8MC 1.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       3 6 24.98   16              28.9 10.4      0  0.01 0 68.59 209
 FNBB BN ESG       3 6 33.85                                    0.01 0 68.59 209
 FNBB BN  AMP      3 6 35.16        52.6 0.50                           68.59 209
 FNBB BE  AMP      3 6 35.99        68.5 0.45                           68.59 209

221- 2011  3 4 0309  4.8   59.424  -122.241 11.3  0.2 3.3MC 3.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       3 9 17.73   85              36.5  9.9      0 -0.11 0 73.90 217
 FNBB BN ISG       3 9 27.34                                    0.01 0 73.90 217
 FNBB BE  AMP      3 9 31.50      1692.6 0.11                           73.90 217
 FNBB BN  AMP      3 9 31.59      1275.1 0.05                           73.90 217
 HILA BZ EP        3 9 51.77                                   -0.11 0 315.3 106
 HILA BN ES        310 26.07                                   -0.21 0 315.3 106
 MANA BZ EP        310  2.22                                    0.6  9 394.0 135
 DLBC BZ EP        310 10.09                                   -0.1  8 461.4 260

222- 2011  3 5 1415  1.5   59.317  -122.161 10.0  1.3 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1415 14.30                  45.3 11.9      0  0.81 0 68.00 226
 FNBB BN ESG      1415 23.10                                    0.81 0 68.00 226
 FNBB BN  AMP     1415 30.51       237.4 0.52                           68.00 226
 FNBB BE  AMP     1415 33.43       234.3 0.65                           68.00 226
 MANA BZ EP       1415 55.08                                   -2.0  9 382.5 134

223- 2011  3 8 1053 54.8   59.505  -122.401 10.0  0.3 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1054  8.51                  26.7  5.1      0  0.21 0 76.80 207
 FNBB BN ESG      1054 18.39                                    0.21 0 76.80 207
 FNBB BE  AMP     1054 20.92       163.9 0.65                           76.80 207
 FNBB BN  AMP     1054 22.20       171.2 0.72                           76.80 207
 HILA BZ EP       1054 43.01                                   -0.4  9 326.5 107

224- 2011  312 0050 25.2   59.482  -121.918 10.0  0.6 2.0MC 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       050 42.08   18              41.8  8.0      0  0.81 0 90.76 224
 FNBB BN  AMP      050 45.47        56.3 0.51                           90.76 224
 FNBB BE  AMP      050 49.67        51.0 0.54                           90.76 224
 FNBB BE ESG       050 52.49                                   -0.51 0 90.76 224
 HILA BZ EP        051  6.82                                   -0.31 0 299.6 108

225- 2011  324 1927  9.9   59.475  -122.386 19.2  1.4 2.5MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1927 23.73   34              28.1  9.8      0  1.01 0 74.26 209
 FNBB BN ESG      1927 31.21                                   -0.91 0 74.26 209
 FNBB BE  AMP     1927 40.02       182.0 0.68                           74.26 209
 FNBB BN  AMP     1927 40.89       245.4 0.91                           74.26 209
 HILA BZ EP       1927 55.64                                   -1.7  9 324.7 106
 MANA BZ EP       1928  9.13                                    1.9  9 403.9 134

226- 2011  324 1931 52.6   59.465  -122.178 10.0  0.4 2.1MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1932  7.94   21              35.4  6.3      0  0.61 0 79.74 217
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 FNBB BN  AMP     1932  8.10        80.4 0.90                          79.74 217
 FNBB BE ESG      1932 17.65                                -0.41 0 79.74 217
 FNBB BE  AMP     1932 18.97        78.4 0.59                          79.74 217
 HILA BZ EP       1932 35.99                                -0.21 0 313.1 107

227- 2011  4 3 1418 52.4   58.532  -122.110 10.0  0.5 2.2MC 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1419  3.95   26            126.3  7.4      0 -0.61 0 65.65 308
 FNBB BN  AMP     1419  6.84       193.3 0.46                          65.65 308
 FNBB BE  AMP     1419  8.12       166.2 0.42                          65.65 308
 FNBB BE ESG      1419 13.94                                 0.51 0 65.65 308
 HILA BN ES       1420 12.53                                 0.21 0 296.4  87

228- 2011  4 7 1219 18.0   59.484  -122.325 13.4  0.3 3.3MC 3.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1219 31.86   85             29.5  5.8      0  0.31 0 76.86 211
 FNBB BE ESG      1219 41.20                                -0.31 0 76.86 211
 FNBB BE  AMP     1219 45.64       785.0 0.09                          76.86 211
 FNBB BN  AMP     1219 46.05      1869.8 0.11                          76.86 211
 HILA BZ EP       1220  6.09                                 0.4  9 321.7 106
 HILA BN ES       1220 40.30                                -0.2  9 321.7 106
 MANA BZ EP       1220 16.07                                 0.4  9 402.1 135
 MANA BE ES       1220 57.36                                -0.4  9 402.1 135
 YKW3 EN ESG      1221 55.41                                -0.3  8 535.2  48

229- 2011  4 8 1851 37.2   59.198  -122.353 10.0  0.3 2.4MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1851 46.58   36             47.4  7.9      0  0.21 0 50.95 228
 FNBB BE  AMP     1851 48.34       259.5 0.50                          50.95 228
 FNBB BN  AMP     1851 49.47       340.7 0.56                          50.95 228
 FNBB BE ISG      1851 53.28                                 0.21 0 50.95 228
 MANA BZ EP       1852 32.27                                -0.5  9 381.6 131

230- 2011  4 9 1308 58.8   59.509  -122.658 10.0  1.2 2.6MC 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      13 9 12.29   42             16.1  6.5      0  0.81 0 71.79 196
 FNBB BN  AMP     13 9 18.38       265.3 0.50                          71.79 196
 FNBB BE ESG      13 9 21.55                                 0.81 0 71.79 196
 FNBB BE  AMP     13 9 31.94       328.1 0.70                          71.79 196
 HILA BE ES       1310 24.17                                -1.8  9 340.6 106

231- 2011  411 1152 44.7   59.440  -122.403 10.0  1.0 2.4MC 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1152 57.88   31             29.3 17.1      0  0.71 0 70.38 210
 FNBB BE  AMP     1153  5.20       146.1 0.73                          70.38 210
 FNBB BN  AMP     1153  6.89       151.0 0.61                          70.38 210
 FNBB BN ISG      1153  6.97                                 0.71 0 70.38 210
 HILA BN ES       1154  6.97                                -1.5  9 324.6 105

232- 2011  411 1803 24.6   59.461  -122.402 10.0  0.7 2.5MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      18 3 37.88   36             28.4  4.6      0  0.41 0 72.45 209
 FNBB BE  AMP     18 3 41.37       217.8 0.62                          72.45 209
 FNBB BN  AMP     18 3 43.08       222.2 0.66                          72.45 209
 FNBB BN ESG      18 3 47.23                                 0.51 0 72.45 209
 HILA BN ES       18 4 47.50                                -1.0  9 325.2 106

233- 2011  414 0319  7.2   59.496  -122.348 10.0  0.9 2.2MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       319 20.32   26             29.0  9.1      0 -0.51 0 77.34 210
 FNBB BN  AMP      319 24.84       120.6 0.75                          77.34 210
 FNBB BE  AMP      319 28.39        92.3 0.70                          77.34 210
 FNBB BE ISG       319 30.27                                -0.51 0 77.34 210
 MANA BZ EP        320  6.84                                 1.3  9 404.0 135

234- 2011  415 2158 39.8   58.941  -122.045 10.0  0.0 2.1MC 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2158 49.82   25             83.8  5.8      0  0.01 0 55.88 265
 FNBB BN  AMP     2158 53.06       147.6 0.65                          55.88 265
 FNBB BE ISG      2158 57.12                                 0.01 0 55.88 265
 FNBB BE  AMP     2158 58.96       115.5 0.76                          55.88 265

235- 2011  422 1535 21.8   59.444  -122.240 10.0  0.0 2.1MC 2.1ML
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 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1535 35.16   23              35.2  5.9      0  0.01 0 75.79 216
 FNBB BN  AMP     1535 38.94        88.5 0.73                          75.79 216
 FNBB BE  AMP     1535 42.36        77.7 0.58                          75.79 216
 FNBB BE ESG      1535 44.92                                    0.01 0 75.79 216

236- 2011  428 2234 49.3   59.474  -122.338  8.1  0.2 2.5MC 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2235  2.75   36              29.5 12.2      0  0.11 0 75.53 211
 FNBB BN ISG      2235 12.38                                    0.01 0 75.53 211
 FNBB BN  AMP     2235 16.59       242.1 0.13                          75.53 211
 FNBB BE  AMP     2235 16.66       273.8 0.05                          75.53 211
 HILA BZ EP       2235 37.31                                   -0.4  9 322.1 106
 HILA BE ES       2236 12.97                                    0.0  9 322.1 106
 YKW3 EE ES       2236 59.31                                    0.3  8 536.5  48

237- 2011  430 1327 28.0   59.507  -122.356 11.9  0.3 3.1MC 3.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1327 41.77   70              28.9  6.0      1  0.01 0 78.21 209
 FNBB BN ISG      1327 51.70                                   -0.21 0 78.21 209
 FNBB BE  AMP     1327 55.96       904.4 0.10                          78.21 209
 FNBB BN  AMP     1327 56.07       992.9 0.07                          78.21 209
 HILA BZ EP       1328 16.59                                    0.5  9 324.1 107
 HILA BE ES       1328 50.97                                   -0.3  9 324.1 107
 MANA BZ EP       1328 26.66                                    0.5  9 405.2 135
 YKW3 EZ EP       1328 41.85                                   -0.5  8 534.8  48

238- 2011  5 3 1256 28.3   59.503  -122.337 10.0  0.3 3.2MC 3.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1256 42.06   76              30.0  5.3      1  0.01 0 78.28 210
 FNBB BN ISG      1256 52.10                                    0.01 0 78.28 210
 FNBB BE  AMP     1256 59.69       934.8 0.37                          78.28 210
 FNBB BN  AMP     1257  0.08      1063.2 0.35                          78.28 210
 HILA BZ EP       1257 17.12                                    0.6  9 322.9 107
 HILA BE ES       1257 51.67                                    0.0  9 322.9 107
 MANA BN EP       1257 26.27                                   -0.3  9 404.0 135
 YKW3 EZ EP       1257 42.33                                   -0.4  8 534.4  48

239- 2011  5 4 0551 23.4   59.447  -122.400 10.0  0.0 2.0MC 2.0ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       551 36.00   20              29.1  8.0      0  0.01 0 71.10 210
 FNBB BE  AMP      551 39.00        64.4 0.57                          71.10 210
 FNBB BN  AMP      551 39.57        88.8 0.83                          71.10 210
 FNBB BE ESG       551 45.18                                    0.01 0 71.10 210

240- 2011  5 9 2248 28.3   59.469  -122.327 10.0  0.4 2.3MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2248 41.76   27              30.9  6.5      0  0.21 0 75.36 211
 FNBB BN ESG      2248 51.47                                    0.21 0 75.36 211
 FNBB BN  AMP     2248 55.94       122.1 0.07                          75.36 211
 FNBB BE  AMP     2248 55.94       108.2 0.25                          75.36 211
 MANA BZ EP       2249 25.60                                   -0.6  9 401.0 135

241- 2011  510 1416  2.4   59.497  -122.368 11.7  0.5 3.5MC 3.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG      1416 16.15  112              29.2 12.8      1  0.11 0 76.89 209
 FNBB BN ISG      1416 25.57                                   -0.31 0 76.89 209
 FNBB BE  AMP     1416 30.32      2235.6 0.17                          76.89 209
 FNBB BN  AMP     1416 30.37      2441.2 0.18                          76.89 209
 HILA BZ EP       1416 51.09                                    0.5  9 324.4 107
 HILA BE ES       1417 25.47                                   -0.4  9 324.4 107
 MANA BZ EP       1417  1.31                                    0.7  9 404.9 135
 YKW3 EZ EP       1417 16.24                                   -0.7  8 536.1  48

242- 2011  511 2224 47.6   59.512  -122.305 10.0  0.3 2.6MC 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2225  1.85   41              29.7  6.8      0  0.11 0 80.11 210
 FNBB BN ISG      2225 11.55                                   -0.51 0 80.11 210
 FNBB BN  AMP     2225 15.97       300.0 0.12                          80.11 210
 FNBB BE  AMP     2225 15.99       232.7 0.13                          80.11 210
 HILA BZ EP       2225 36.22                                    0.6  9 321.5 107
 HILA BE ESG      2226 22.53                                   -0.2  9 321.5 107
 YKW3 EZ EP       2226  2.12                                    0.3  8 532.3  48
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 YKW3 EN ESG      2227 24.25                                    -0.3  8 532.3  48

243- 2011  511 2225 44.8   59.511  -122.325 10.0  0.0 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2225 58.79                  29.2  7.1      0  0.01 0 79.44 210
 FNBB BN ESG      2226  9.00                                    0.01 0 79.44 210
 FNBB BE  AMP     2226 26.57       179.3 0.65                          79.44 210
 FNBB BN  AMP     2226 31.94       122.3 0.37                          79.44 210
 HILA BZ EP       2226 32.88                                   -0.1  9 322.5 107

244- 2011  514 0525 37.0   59.471  -122.327 10.0  0.0 1.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       525 50.34                  30.8 17.9      0  0.01 0 75.55 211
 FNBB BE ESG       526  0.07                                    0.01 0 75.55 211
 FNBB BE  AMP      526  4.85        42.1 0.61                          75.55 211
 FNBB BN  AMP      526  5.32        23.8 0.62                          75.55 211

245- 2011  514 0530  9.9   59.474  -122.380 10.0  0.2 2.6MC 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       530 22.87   40              28.7  9.9      0 -0.11 0 74.32 209
 FNBB BE ESG       530 32.45                                   -0.11 0 74.32 209
 FNBB BE  AMP      530 36.76       294.9 0.07                          74.32 209
 FNBB BN  AMP      530 36.81       272.6 0.20                          74.32 209
 HILA BZ EP        530 58.27                                    0.0  9 324.4 106
 HILA BN ES        531 33.89                                    0.3  9 324.4 106

246- 2011  515 0158 27.0   59.544  -122.609 10.0  0.2 2.3MC 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       158 40.61   27              17.3  8.4      0  0.11 0 76.33 198
 FNBB BE ESG       158 50.43                                   0.11 0 76.33 198
 FNBB BE  AMP      158 54.71       185.5 0.24                          76.33 198
 FNBB BN  AMP      158 54.77       103.3 0.21                          76.33 198
 HILA BZ EP        159 16.94                                   -0.3  9 339.0 107
 HILA BN ES        159 53.87                                    0.0  9 339.0 107

247- 2011  518 1416 40.7   59.489  -122.335 10.0  0.3 2.8MC 2.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1416 54.27   49              30.8 12.5      1  0.01 0 77.02 210
 FNBB BE ISG      1417  4.17                                   -0.11 0 77.02 210
 FNBB BN  AMP     1417  8.27       376.0 0.32                          77.02 210
 FNBB BE  AMP     1417  8.49       534.6 0.17                          77.02 210
 HILA BZ EP       1417 29.40                                    0.5  9 322.4 107
 HILA BE ES       1418  3.96                                   -0.1  9 322.4 107
 YKW3 EZ EP       1417 54.88                                   -0.5  8 535.3  48

248- 2011  519 1305 13.4   59.478  -122.393 10.0  0.2 3.6MC 3.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG      13 5 26.47  132              28.4  6.3      0 -0.11 0 74.34 209
 FNBB BN ISG      13 5 36.24                                   0.11 0 74.34 209
 FNBB BN  AMP     13 5 45.49      1274.9 0.12                          74.34 209
 FNBB BE  AMP     13 5 45.59      5474.2 0.45                          74.34 209
 HILA BZ EP       13 6  2.21                                    0.3  9 325.2 106
 HILA BE  SN      13 6 37.45                                    0.1  9 325.2 106
 MANA BZ EP       13 6 11.21                                   -0.5  9 404.4 134
 MANA BE  SN      13 6 54.40                                    0.1  9 404.4 134
 WAPA BZ EP       13 6 25.30                                   -0.2  8 514.1 157
 YKW3 EZ EP       13 6 28.39                                    0.0  8 538.5  48

249- 2011  519 1310 50.9   59.446  -122.434 11.8  0.4 2.9MC 2.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1311  3.54   58              27.9 10.8      0  0.21 0 70.08 208
 FNBB BN ESG      1311 12.37                                   0.01 0 70.08 208
 FNBB BN  AMP     1311 17.45       648.6 0.24                          70.08 208
 FNBB BE  AMP     1311 17.71       601.9 0.22                          70.08 208
 HILA BE ES       1312 15.04                                    0.4  9 326.4 105
 MANA BZ EP       1311 48.25                                   -0.7  9 403.6 134

250- 2011  519 1313 42.0   59.435  -122.424 13.1  0.3 3.3MC 3.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1313 54.29   87              28.2 29.4      0  0.01 0 69.33 209
 FNBB BE ISG      1314  3.51                                   0.21 0 69.33 209
 FNBB BE  AMP     1314  8.47      1969.3 0.15                          69.33 209
 FNBB BN  AMP     1314 13.22      1524.4 0.18                          69.33 209
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 HILA BZ EP       1314 30.27                                    0.1  9 325.6 105
 HILA BE ES       1315  5.58                                    0.2  9 325.6 105
 MANA BZ EP       1314 39.16                                   -0.6  9 402.3 133
 MANA BN ES       1315 21.83                                    0.0  9 402.3 133
 YKW3 EE ES       1315 52.34                                    0.2  8 543.0  48

251- 2011  520 0619 17.6   59.449  -122.408 10.0  0.1 2.3MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       619 30.09   29              28.7 10.8      0 -0.11 0 71.11 209
 FNBB BE ESG       619 39.52                                    0.11 0 71.11 209
 FNBB BE  AMP      619 40.24       176.4 0.16                          71.11 209
 FNBB BN  AMP      619 41.88       180.7 0.35                          71.11 209
 HILA BZ EP        620  6.11                                    0.2  9 325.1 105
 HILA BE ES        620 41.10                                   -0.1  9 325.1 105

252- 2011  520 0622 32.9   59.513  -122.452 10.0  0.4 3.0MC 3.0ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG       622 46.29   65              26.2 14.6      2  0.01 0 76.35 205
 FNBB BN ISG       622 56.05                                   -0.11 0 76.35 205
 FNBB BN  AMP      623  0.52       761.2 0.24                          76.35 205
 FNBB BE  AMP      623  2.60       779.8 0.26                          76.35 205
 HILA BZ EP        623 22.54                                    0.6  9 329.5 107
 HILA BN ES        623 57.73                                    0.0  9 329.5 107
 MANA BZ EP        623 31.80                                    0.0  9 409.5 134
 YKW3 EZ EP        623 47.16                                   -0.7  8 538.4  49

253- 2011  520 0654 38.5   59.493  -122.394 10.0  0.3 2.2MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       654 51.67   25              27.4 13.3      0 -0.21 0 75.80 208
 FNBB BN ESG       655  1.43                                   -0.21 0 75.80 208
 FNBB BN  AMP      655  5.87        75.6 0.08                          75.80 208
 FNBB BE  AMP      655  5.89       153.8 0.14                          75.80 208
 HILA BZ EP        655 27.44                                    0.4  9 325.7 106

254- 2011  520 0738 41.3   59.820  -122.102 10.0  1.3 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       739  0.61                  26.1  8.2      0 -0.81 0 115.7 207
 FNBB BE ESG       739 15.31                                   -0.81 0 115.7 207
 FNBB BN  AMP      739 16.09        73.0 0.78                          115.7 207
 FNBB BE  AMP      739 17.68        71.4 0.66                          115.7 207
 HILA BZ EP        739 31.40                                    1.9  9 322.7 114

255- 2011  520 1854 53.7   59.363  -122.085 10.0  1.6 2.3MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1855  7.91   28              44.8 10.2      0  1.01 0 74.67 226
 FNBB BN  AMP     1855 11.46       108.6 0.68                          74.67 226
 FNBB BE  AMP     1855 16.12       105.1 0.52                          74.67 226
 FNBB BE ISG      1855 17.53                                    1.01 0 74.67 226
 MANA BZ EP       1855 46.92                                   -2.5  9 382.9 135

256- 2011  529 0809 45.9   59.494  -122.293 10.0  0.2 3.1MC 3.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG       8 9 59.89   73              31.7 13.3      1  0.11 0 78.70 212
 FNBB BE ISG       810  9.75                                   -0.11 0 78.70 212
 FNBB BE  AMP      810 14.02       903.8 0.13                          78.70 212
 FNBB BN  AMP      810 17.84       955.7 0.41                          78.70 212
 HILA BZ EP        810 34.03                                    0.2  9 320.2 107
 HILA BE ES        811  8.72                                    0.0  9 320.2 107
 MANA BZ EP        810 43.93                                    0.0  9 401.6 135
 YKW3 EZ EP        810 59.92                                   -0.3  8 533.1  48

257- 2011  6 7 1046 44.6   59.439  -122.281 10.0  0.6 2.5MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG      1046 58.08   35              34.0  7.4      0  0.41 0 73.98 215
 FNBB BN  AMP     1047  1.69       217.5 0.82                          73.98 215
 FNBB BE  AMP     1047  6.61       228.0 0.80                          73.98 215
 FNBB BE ISG      1047  7.61                                    0.41 0 73.98 215
 MANA BZ EP       1047 41.02                                   -1.0  9 396.8 134

258- 2011  618 2302 44.5   59.528  -122.476 10.0  0.0 1.9MC 2.0ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       23 2 58.12   17              23.0  6.8      0  0.01 0 77.34 203
 FNBB BE ESG       23 3  8.07                                    0.01 0 77.34 203
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 FNBB BE  AMP     23 3 11.85        68.7 0.53                          77.34 203
 FNBB BN  AMP     23 3 11.99        60.0 0.46                          77.34 203

259- 2011  623 1044 54.2   59.469  -122.394 10.0  0.8 2.4MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1045  7.66   31              28.4 12.0      0  0.51 0 73.45 209
 FNBB BN  AMP     1045 11.49       189.1 0.64                          73.45 209
 FNBB BE  AMP     1045 16.94       205.9 0.58                          73.45 209
 FNBB BE ISG      1045 17.13                                    0.51 0 73.45 209
 MANA BZ EP       1045 51.11                                   -1.3  9 403.7 134

260- 2011  625 0449 18.1   59.520  -122.397 10.0  0.4 2.6MC 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       449 31.99   41              28.1  8.0      2  0.11 0 78.40 207
 FNBB BN ISG       449 41.83                                   -0.21 0 78.40 207
 FNBB BN  AMP      449 45.49       287.4 0.21                          78.40 207
 FNBB BE  AMP      449 45.78       262.0 0.08                          78.40 207
 HILA BZ EP        450  7.46                                    0.7  9 326.7 107
 HILA BN ES        450 42.37                                    0.0  9 326.7 107
 YKW3 EZ EP        450 31.99                                   -0.8  8 535.6  48

261- 2011  626 1317  1.6   59.504  -122.375 10.0  0.5 2.8MC 2.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1317 15.22   51              29.5  8.9      2  0.01 0 77.33 208
 FNBB BN ISG      1317 25.03                                   -0.11 0 77.33 208
 FNBB BN  AMP     1317 28.85       433.7 0.25                          77.33 208
 FNBB BE  AMP     1317 29.00       409.2 0.10                          77.33 208
 HILA BZ EP       1317 50.84                                    0.8  9 325.0 107
 HILA BN ES       1318 25.41                                    0.0  9 325.0 107
 YKW3 EZ EP       1318 15.48                                   -0.8  8 535.9  48

262- 2011  7 1 0932 46.4   59.507  -122.332 17.3  0.0 2.7MC 2.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       933  0.04   43              29.1  5.3      0  0.01 0 78.80 210
 FNBB BN ISG       933 10.02                                    0.01 0 78.80 210
 FNBB BE  AMP      933 13.93       327.0 0.06                          78.80 210
 FNBB BN  AMP      933 13.97       350.1 0.15                          78.80 210
 DLBC BZ EP        933 50.77                                    0.0  8 458.1 258
 YKW3 EZ EP        934  0.11                                    0.0  8 533.9  48
 YKW3 EE ES        934 53.80                                    0.0  8 533.9  48

263- 2011  7 3 1614 32.8   59.407  -122.231 10.0  0.3 2.2MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1614 45.81   25              37.4  9.5      0  0.21 0 72.79 218
 FNBB BE  AMP     1614 48.41       163.7 0.50                          72.79 218
 FNBB BN  AMP     1614 49.81       101.4 0.49                          72.79 218
 FNBB BN ESG      1614 55.20                                    0.21 0 72.79 218
 BMBC BZ EP       1615 27.16                                   -0.4  9 374.5 179

264- 2011  7 5 1029 24.6   59.442  -122.279 10.0  0.4 2.2MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1029 37.95   25              33.9  8.8      0  0.31 0 74.32 215
 FNBB BE  AMP     1029 42.96        98.4 0.53                          74.32 215
 FNBB BN  AMP     1029 46.80       117.1 0.53                          74.32 215
 FNBB BN ISG      1029 47.53                                    0.31 0 74.32 215
 BMBC BZ EP       1030 19.12                                   -0.7  9 378.4 179

265- 2011  7 7 2246 35.5   59.501  -122.237  8.8  0.4 3.1MC 3.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2246 50.25   69              31.6 34.6      0  0.51 0 81.10 213
 FNBB BN ISG      2246 59.74                                   -0.41 0 81.10 213
 FNBB BN  AMP     2247  4.07       901.9 0.09                          81.10 213
 FNBB BE  AMP     2247  4.17       933.2 0.31                          81.10 213
 DLBC BZ EP       2247 41.78                                    0.3  8 463.2 259
 YKW3 EZ EP       2247 49.24                                   -0.4  8 530.3  48

266- 2011  714 0947 22.6   59.131  -121.805 10.0  0.0 2.0MC 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       947 35.75   21              68.3 15.4      0  0.01 0 74.26 249
 FNBB BN ESG       947 45.32                                    0.01 0 74.26 249
 FNBB BN  AMP      947 50.04       116.9 0.17                          74.26 249
 FNBB BE  AMP      947 50.48        82.3 0.07                          74.26 249
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267- 2011 714 1040 34.0   59.290 -122.040 10.0 0.5 2.8MC 2.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ IPG   1040 46.15   51   51.6 8.2   1 -0.41 0 71.22 232
 FNBB BE ISG   1040 56.33   0.51 0 71.22 232
 FNBB BN AMP   1041 0.55   683.3 0.12   71.22 232
 FNBB BE AMP   1041 4.07   392.7 0.28   71.22 232
 DLBC BE EP   1041 40.02   -0.6 8 470.3 262
 YKW3 BZ IP   1041 49.50   0.5 8 538.3 45

268- 2011 715 1613 29.6   59.238 -121.905 10.0 0.5 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   1613 43.05   58.1 8.1   0 0.31 0 74.27 239
 FNBB BE ESG   1613 52.62   0.31 0 74.27 239
 FNBB BN AMP   1613 59.81   79.3 0.31   74.27 239
 FNBB BE AMP   1614 0.49   90.4 0.33   74.27 239
 BMBC BZ EP   1614 21.30   -0.8 9 355.8 182

269- 2011 715 1613 53.8   59.525 -122.537 10.0 0.3 2.2MC 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   1614 6.92   26   20.7 12.5   0 -0.21 0 75.68 201
 FNBB BE ESG   1614 16.66   -0.21 0 75.68 201
 FNBB BN AMP   1614 18.82   144.8 0.50   75.68 201
 FNBB BE AMP   1614 27.39   115.0 0.55   75.68 201
 BMBC BZ EP   1614 50.71   0.5 9 388.3 176

270- 2011 715 1859 10.3   59.281 -121.948 10.0 0.1 2.5MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ IPG   1859 23.55   35   54.0 22.0   0 0.01 0 74.83 235
 FNBB BN ISG   1859 33.19   0.01 0 74.83 235
 FNBB BN AMP   1859 37.91   292.7 0.11   74.83 235
 FNBB BE AMP   1859 38.42   225.8 0.08   74.83 235
 BMBC BZ EP   1900 3.23   -0.1 9 360.5 182

271- 2011 715 2030 1.3   59.376 -122.151 10.0 0.3 2.5MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   2030 13.99   36   41.9 24.4   0 -0.21 0 73.10 223
 FNBB BN ESG   2030 23.42   -0.21 0 73.10 223
 FNBB BN AMP   2030 26.27   221.4 0.17   73.10 223
 FNBB BE AMP   2030 28.27   213.1 0.19   73.10 223
 BMBC BZ EP   2030 55.97   0.4 9 371.0 180

272- 2011 724 0237 54.6   59.431 -122.091 22.9 0.3 3.2MC 3.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ IPG   238 8.73   75   41.1 8.5   0 0.41 0 79.97 221
 FNBB BN ISG   238 17.97   -0.41 0 79.97 221
 FNBB BE AMP   238 22.92   1024.0 0.14   79.97 221
 FNBB BN AMP   238 23.17   1058.3 0.22   79.97 221
 BMBC BZ EP   238 48.57   0.2 9 377.1 180
 YKW3 BZ EP   239 7.01   -0.1 8 529.4 47
 YKW3 BN ES   240 0.00   -0.1 8 529.4 47

273- 2011 724 1743 2.3   59.337 -122.062 10.0 0.1 2.3MC 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   1743 15.35   30   47.1 22.0   0 0.01 0 73.64 228
 FNBB BN ESG   1743 24.84   0.01 0 73.64 228
 FNBB BE AMP   1743 27.67   99.7 0.24   73.64 228
 FNBB BN AMP   1743 29.78   209.1 0.07   73.64 228
 BMBC BZ EP   1743 55.98   -0.1 9 366.6 181

274- 2011 724 1747 54.6   59.221 -121.899 10.0 0.1 2.3MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   1748 7.72   30   59.5 10.6   0 0.11 0 73.61 240
 FNBB BN ESG   1748 17.21   0.11 0 73.61 240
 FNBB BN AMP   1748 22.09   180.4 0.08   73.61 240
 FNBB BE AMP   1748 30.84   166.5 0.45   73.61 240
 BMBC BZ EP   1748 46.64   -0.2 9 354.0 182

275- 2011 727 0300 26.8   59.483 -122.514 10.0 0.1 2.2MC 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   3 0 39.50   26   23.0 9.3   0 0.01 0 71.85 203
 FNBB BN ESG   3 0 48.77   0.01 0 71.85 203
 FNBB BE AMP   3 0 52.90   98.2 0.17   71.85 203
 FNBB BN AMP   3 0 53.02   118.5 0.19   71.85 203

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 BMBC BZ EP        3 1 22.83                                      0.1  9 383.5 176

276- 2011  727 0408 18.5   59.240  -121.984 10.0  0.4 2.6MC 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       4 8 30.77   40              54.4 13.6     -1 -0.21 0 70.54 237
 FNBB BN ISG       4 8 40.37                                    0.31 0 70.54 237
 FNBB BN  AMP      4 8 44.98       265.7 0.19                          70.54 237
 FNBB BE  AMP      4 8 45.21       314.0 0.17                          70.54 237
 BMBC BZ EP        4 9 10.36                                   -0.5  9 355.9 181
 YKW3 BZ EP        4 9 34.13                                    0.5  8 540.0  45

277- 2011  728 0015 48.6   59.017  -121.780 10.0  0.1 2.2MC 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       016  1.31   26              78.2 12.5      0 -0.11 0 72.17 259
 FNBB BN ESG       016 10.62                                   -0.11 0 72.17 259
 FNBB BE  AMP      016 15.44        96.3 0.17                          72.17 259
 FNBB BN  AMP      016 15.58       112.9 0.11                          72.17 259
 BMBC BZ EP        016 38.21                                    0.2  9 331.6 184

278- 2011  728 0338 11.3   59.313  -122.040 10.0  0.2 2.5MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       338 24.32   35              49.3 12.4      0  0.21 0 72.83 230
 FNBB BN ESG       338 33.66                                    0.11 0 72.83 230
 FNBB BE  AMP      338 38.80       157.4 0.17                          72.83 230
 FNBB BN  AMP      338 38.88       224.0 0.12                          72.83 230
 BMBC BZ EP        339  4.41                                   -0.3  9 364.0 181

279- 2011  728 0417 12.6   59.216  -121.925 10.0  0.1 2.1MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       417 25.25   22              59.3 10.8      0 -0.11 0 72.05 240
 FNBB BN ISG       417 34.55                                   -0.11 0 72.05 240
 FNBB BN  AMP      417 39.20       111.7 0.08                          72.05 240
 FNBB BE  AMP      417 48.00       109.4 0.68                          72.05 240
 BMBC BZ EP        418  4.97                                    0.2  9 353.3 182

280- 2011  728 2218 32.4   59.498  -122.440 11.5  0.3 2.8MC 2.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2218 45.67   49              25.5 24.3      0  0.01 0 75.10 206
 FNBB BN ISG      2218 55.12                                   -0.21 0 75.10 206
 FNBB BE  AMP     2218 59.95       462.7 0.12                          75.10 206
 FNBB BN  AMP     2219  0.10       564.7 0.19                          75.10 206
 BMBC BZ EP       2219 28.57                                    0.3  9 385.0 177
 YKW3 BZ EP       2219 47.71                                    0.4  8 539.0  48
 YKW3 BN ES       2220 41.45                                   -0.5  8 539.0  48

281- 2011  731 0841  6.1   59.292  -121.983 10.0  0.1 2.3MC 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       841 19.20   28              52.3  7.6      0  0.01 0 73.93 233
 FNBB BN ESG       841 28.73                                    0.01 0 73.93 233
 FNBB BE  AMP      841 33.22       142.9 0.34                          73.93 233
 FNBB BN  AMP      841 33.32       130.3 0.28                          73.93 233
 BMBC BZ EP        841 59.17                                   -0.1  9 361.7 181

282- 2011  731 0934  2.5   59.487  -122.358  8.8  0.0 2.9MC 3.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG       934 15.94   57              29.0  8.2      0  0.01 0 76.17 210
 FNBB BN ISG       934 25.71                                    0.01 0 76.17 210
 FNBB BN  AMP      934 30.17       851.8 0.21                          76.17 210
 FNBB BE  AMP      934 30.36       783.3 0.11                          76.17 210
 BMBC BZ EP        934 58.52                                    0.0  9 383.5 178
 YKW3 BZ EP        935 17.36                                    0.0  8 536.4  48
 YKW3 BN ES        936 12.07                                    0.0  8 536.4  48

283- 2011  731 1532 39.8   59.303  -121.958 10.0  0.2 2.3MC 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1532 53.28   27              52.2 10.7      0  0.11 0 75.80 233
 FNBB BN ESG      1533  3.04                                    0.11 0 75.80 233
 FNBB BN  AMP     1533  5.70        65.5 0.17                          75.80 233
 FNBB BE  AMP     1533  7.88       105.5 0.17                          75.80 233
 BMBC BZ EP       1533 32.75                                   -0.3  9 363.0 182

284- 2011  8 1 0858  8.7   59.291  -122.004 10.0  0.3 2.3MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
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 FNBB BZ EPG       858 21.31   28              51.8  7.9      0 -0.21 0 72.91 233
 FNBB BN ESG       858 30.72                                    -0.21 0 72.91 233
 FNBB BE  AMP      858 35.35       170.2 0.14                          72.91 233
 FNBB BN  AMP      858 35.45       180.4 0.17                          72.91 233
 BMBC BZ EP        859  2.33                                     0.5  9 361.6 181

285- 2011  8 1 2217 35.8   59.300  -122.017  8.8  0.1 2.7MC 2.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2217 48.56   46              50.7  9.8      0 -0.11 0 72.96 232
 FNBB BN ISG      2217 58.12                                    0.11 0 72.96 232
 FNBB BE  AMP     2218  2.77       491.6 0.08                          72.96 232
 FNBB BN  AMP     2218  2.85       495.8 0.10                          72.96 232
 BMBC BZ EP       2218 29.13                                   -0.1  9 362.6 181
 YKW3 BZ EP       2218 50.75                                    0.1  8 536.6  45

286- 2011  8 1 2227 23.6   59.394  -122.210 10.0  0.2 2.3MC 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2227 36.50   28              38.9 30.7      0  0.11 0 72.41 220
 FNBB BN ESG      2227 45.84                                    0.11 0 72.41 220
 FNBB BE  AMP     2227 46.94       118.7 0.62                          72.41 220
 FNBB BN  AMP     2227 46.97       224.7 0.62                          72.41 220
 BMBC BZ EP       2228 17.82                                   -0.3  9 373.0 179

287- 2011  8 1 2236 25.0   59.300  -122.046  8.1  0.0 2.6MC 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2236 37.66   39              50.0  5.5      0  0.01 0 71.70 231
 FNBB BN ISG      2236 46.90                                    0.01 0 71.70 231
 FNBB BE  AMP     2236 51.57       244.0 0.14                          71.70 231
 FNBB BN  AMP     2236 51.58       342.1 0.08                          71.70 231
 YKW3 BZ EP       2237 40.14                                    0.0  8 537.7  45

288- 2011  8 1 2301 49.8   59.124  -121.844 10.0  0.3 2.2MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      23 2  2.66   27              68.3  8.9      0  0.21 0 71.86 249
 FNBB BN ESG      23 2 11.93                                    0.21 0 71.86 249
 FNBB BN  AMP     23 2 16.75       121.7 0.17                          71.86 249
 FNBB BE  AMP     23 2 16.95       118.0 0.11                          71.86 249
 BMBC BZ EP       23 2 40.22                                   -0.4  9 343.3 183

289- 2011  8 2 0127  6.5   59.305  -122.043  7.6  0.0 2.9MC 2.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       127 19.23   55              49.8 10.9      0  0.01 0 72.17 231
 FNBB BN ISG       127 28.51                                    0.01 0 72.17 231
 FNBB BN  AMP      127 33.33       673.3 0.21                          72.17 231
 FNBB BE  AMP      127 33.57       624.8 0.10                          72.17 231
 BMBC BZ EP        128  0.14                                     0.0  9 363.1 181
 YKW3 BZ EP        128 21.64                                     0.0  8 537.2  45
 YKW3 BN ES        129 16.42                                     0.0  8 537.2  45

290- 2011  8 4 1648 44.8   59.025  -121.773 10.0  0.1 2.2MC 2.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1648 57.68   26              77.6  8.0      0  0.01 0 72.73 259
 FNBB BN ESG      1649  7.06                                    0.01 0 72.73 259
 FNBB BE  AMP     1649 11.82        65.0 0.11                          72.73 259
 FNBB BN  AMP     1649 11.85       139.9 0.19                          72.73 259
 BMBC BZ EP       1649 34.26                                   -0.1  9 332.5 184

291- 2011  8 5 0613  2.6   59.268  -121.981 10.0  0.2 2.4MC 2.3ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       613 15.21   32              54.1 10.3      0 -0.21 0 72.45 235
 FNBB BN ISG       613 24.66                                    -0.11 0 72.45 235
 FNBB BN  AMP      613 29.26       161.3 0.34                          72.45 235
 FNBB BE  AMP      613 29.26       140.4 0.12                          72.45 235
 YKW3 BZ EP        614 17.88                                     0.3  8 537.6  45
 YKW3 BN ES        615 12.48                                     0.3  8 537.6  45

292- 2011  8 6 0843 48.7   59.488  -122.553 10.0  0.0 1.8MC 1.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       844  1.38   16              21.2 11.0      0  0.01 0 71.51 202
 FNBB BN ESG       844 10.61                                    0.01 0 71.51 202
 FNBB BE  AMP      844 15.39        37.6 0.08                          71.51 202
 FNBB BN  AMP      844 15.43        67.2 0.10                          71.51 202
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293- 2011 811 2040 7.5   59.083 -121.826 10.0 0.6 2.5MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   2040 19.73   35   72.0 9.8   0 -0.41 0 71.36 253
 FNBB BE ISG   2040 28.94   -0.41 0 71.36 253
 FNBB BN AMP   2040 34.10   220.8 0.17   71.36 253
 FNBB BE AMP   2040 42.86   250.6 0.70   71.36 253
 BMBC BZ EP   2040 58.76   0.9 9 338.8 183

294- 2011 815 1037 43.8   58.973 -122.938 10.0 0.0 1.4MC 1.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   1037 46.43   13   14.7 6.6   -8 0.01 0 10.11 204
 FNBB BE AMP   1037 48.22   153.6 0.49   10.11 204
 FNBB BN ESG   1037 48.34   0.01 0 10.11 204
 FNBB BN AMP   1037 49.61   165.3 0.59   10.11 204

295- 2011 815 1155 45.5   59.249 -122.764 10.0 0.0 2.0MC 2.0ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   1155 53.21   24   19.3 7.3   0 0.01 0 42.37 200
 FNBB BN AMP   1155 56.63   149.5 0.58   42.37 200
 FNBB BN ESG   1155 58.85   0.01 0 42.37 200
 FNBB BE AMP   1156 1.33   162.1 0.76   42.37 200

296- 2011 819 1148 19.1   59.271 -122.215 10.0 0.0 2.1MC 2.0ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   1148 30.13   23   46.7 4.5   0 0.01 0 62.26 227
 FNBB BE ESG   1148 38.22   0.01 0 62.26 227
 FNBB BE AMP   1148 39.27   92.4 0.61   62.26 227
 FNBB BN AMP   1148 44.06   89.4 0.63   62.26 227

297- 2011 9 8 1535 50.6   58.788 -121.505 10.0 0.0 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   1536 6.08   96.8 7.0   0 0.01 0 87.64 278
 FNBB BE AMP   1536 12.11   99.3 0.55   87.64 278
 FNBB BE ESG   1536 17.28   0.01 0 87.64 278
 WAPA BZ EP   1536 51.02   0.0 9 424.0 160

298- 2011 918 0714 31.0   59.569 -122.157 10.0 0.2 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   714 46.62   32.4 4.5   0 -0.11 0 89.92 213
 FNBB BE AMP   714 54.62   62.6 0.61   89.92 213
 FNBB BN ESG   714 58.13   -0.11 0 89.92 213
 FNBB BN AMP   715 0.78   102.9 0.92   89.92 213
 WAPA BN EP   715 43.85   0.3 8 518.5 159

299- 2011 1030 1524 26.2   58.218 -122.775 8.2 0.5 3.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ IPG   1524 38.68   167.5 5.7   -1 -1.01 0 76.12 350
 FNBB BN ISG   1524 50.09   0.71 0 76.12 350
 FNBB BN AMP   1524 53.26   943.8 0.15   76.12 350
 FNBB BE AMP   1524 52.61   767.1 0.15   76.12 350
 HILA BZ EP   1525 16.33   -0.3 9 338.6 81
 HILA BE ESG   1526 6.64   0.3 9 338.6 81
 WAPA BZ EP   1525 24.80   0.4 9 400.8 146
 WAPA BE ES   1526 6.86   0.0 9 400.8 146

300- 2011 11 7 0155 11.5   59.411 -122.324 10.0 0.4 2.1MC 2.2ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   155 24.06   23   33.8 7.3   0 0.21 0 70.03 214
 FNBB BN AMP   155 31.19   118.8 0.67   70.03 214
 FNBB BN ESG   155 33.11   0.21 0 70.03 214
 BMBC BZ EP   156 5.73   -0.5 9 375.0 178

301- 2011 1119 2214 28.2   59.598 -122.526 10.0 0.1 2.4MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   2214 42.78   32   19.1 8.2   0 -0.11 0 83.53 200
 FNBB BE AMP   2214 46.27   204.5 0.57   83.53 200
 FNBB BE ESG   2214 53.49   -0.11 0 83.53 200
 BMBC BZ EP   2215 25.84   0.2 9 396.4 176

302- 2011 12 8 1528 40.3   59.563 -122.600 13.6 0.2 2.8MC 2.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR TRES W DIS CAZ7
 FNBB BZ EPG   1528 54.32   49   16.9 5.3 93 0 0.11 0 78.53 198
 FNBB BN ESG   1529 4.18   -0.11 0 78.53 198

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 FNBB BE  AMP     1529  9.95       384.7 0.33                          78.53 198
 BMBC BZ EP       1529 37.18                                    0.3  9 392.8 176
 WAPA BZ EP     D 1529 53.40                                   -0.2  8 527.5 156
 YKW3 EE ES       1530 49.82                                   -0.1  8 541.1  49

303- 2011 12 9 1801 23.2   59.522  -122.681  9.0  0.3 2.6MC 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      18 1 36.12   41              15.0  5.7      0  0.11 0 72.87 195
 FNBB BE ESG      18 1 45.52                                    0.11 0 72.87 195
 FNBB BE  AMP     18 1 51.68       375.2 0.35                          72.87 195
 FNBB BN  AMP     18 1 52.56       301.0 0.23                          72.87 195
 BMBC BZ EP       18 2 19.57                                   -0.2  9 388.6 175
 YKW3 EZ EP       18 2 38.97                                   -0.4  8 547.5  49
 YKW3 EE ES       18 3 35.51                                    0.4  8 547.5  49

304- 2011 12 9 1807  4.9   59.532  -122.628  6.6  0.1 2.7MC 2.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      18 7 18.12   46              16.7  5.1  94  0  0.11 0 74.77 197
 FNBB BE ESG      18 7 27.51                        94    -0.11 0 74.77 197
 FNBB BE ESG      18 7 29.29                        94          74.77 197
 FNBB BE  AMP     18 7 33.72       345.6 0.27                          74.77 197
 FNBB BN  AMP     18 7 34.64       421.5 0.20                          74.77 197
 BMBC BZ EP       18 8  2.01                                    0.1  9 389.5 175
 YKW3 EE ES       18 9 16.52                                   -0.1  8 544.5  49

305- 2011 1210 0207 12.5   59.523  -122.621 10.8  0.0 2.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       2 7 25.55                  17.3  6.0  94  0  0.01 0 73.93 198
 FNBB BE ESG       2 7 35.02                        94     0.01 0 73.93 198
 FNBB BE  AMP      2 7 41.10       402.2 0.30                          73.93 198
 FNBB BN  AMP      2 7 42.00       396.2 0.12                          73.93 198
 BMBC BZ EP        2 8  8.89                                    0.0  9 388.5 175
 YKW3 EE ES        2 9 23.41                                    0.0  8 544.9  49

306- 2011 1210 0207 57.3   59.509  -122.684 13.2  0.1 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       2 8  9.88                  15.0  5.1      0 -0.11 0 71.42 195
 FNBB BN ESG       2 8 19.26                                    0.11 0 71.42 195
 FNBB BE  AMP      2 8 25.38       256.3 0.29                          71.42 195
 FNBB BN  AMP      2 8 26.26       210.5 0.26                          71.42 195
 BMBC BZ EP        2 8 53.20                                    0.0  9 387.2 175
 YKW3 EZ EP        2 9 13.21                                    0.1  8 548.6  49

307- 2011 1210 0252 39.4   59.516  -122.632 13.2  0.1 2.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       252 52.23                  17.1  7.1  94  0 -0.11 0 72.99 197
 FNBB BN ESG       253  1.85                        94     0.11 0 72.99 197
 FNBB BE  AMP      253  8.88       673.9 0.29                          72.99 197
 FNBB BN  AMP      253  9.75       622.7 0.23                          72.99 197
 BMBC BZ EP        253 35.32                                   -0.1  9 387.7 175
 YKW3 EN ES        254 50.13                                    0.1  8 545.9  49

308- 2011 1210 1017 45.2   59.509  -122.614 16.9  0.1 2.6MC 2.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1017 57.77   40              18.0  5.9      0 -0.11 0 72.56 198
 FNBB BE ESG      1018  7.17                                    0.11 0 72.56 198
 FNBB BE  AMP     1018 13.35       342.8 0.32                          72.56 198
 FNBB BN  AMP     1018 14.24       329.3 0.20                          72.56 198
 BMBC BZ EP       1018 40.72                                    0.0  9 386.9 176
 YKW3 EZ EP       1019  0.43                                    0.1  8 545.6  49

309- 2011 1210 1428 23.1   59.499  -122.596 17.2  0.1 2.7MC 2.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1428 35.52   43              19.1  5.8      0 -0.11 0 71.84 199
 FNBB BE ISG      1428 44.98                                    0.21 0 71.84 199
 FNBB BE  AMP     1428 51.12       400.7 0.26                          71.84 199
 FNBB BN  AMP     1428 52.00       301.2 0.23                          71.84 199
 BMBC BZ EP       1429 18.37                                   -0.1  9 385.7 176
 YKW3 EE ES       1430 33.18                                    0.1  8 545.6  49

310- 2011 1210 1705  9.8   59.524  -122.671 10.0  0.3 2.5MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      17 5 22.90   35              15.2  5.7      0  0.11 0 73.19 195
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 FNBB BN ESG      17 5 32.34                                      0.11 0 73.19 195
 FNBB BE  AMP     17 5 38.37       183.9 0.18                            73.19 195
 FNBB BN  AMP     17 5 41.15       209.2 0.19                            73.19 195
 YKW3 EE ES       17 7 20.99                                     -0.4  8 547.0  49

311- 2011 1210 2314 37.3   59.525  -122.614  6.5  0.3 2.8MC 2.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2314 50.28   49              17.4  5.4  94  0 -0.11 0 74.25 198
 FNBB BE ESG      2314 59.76                                  94    -0.11 0 74.25 198
 FNBB BE  AMP     2315  5.88       588.0 0.31                            74.25 198
 FNBB BN  AMP     2315  6.75       590.1 0.23                            74.25 198
 BMBC BZ EP       2315 34.51                                      0.3  9 388.6 176
 YKW3 BZ EP       2315 53.89                                      0.5  8 544.5  49
 YKW3 EE ES       2316 48.49                                     -0.5  8 544.5  49

312- 2011 1211 0237 57.6   59.542  -122.621 12.6  0.3 3.0MC 3.0ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       238 11.29   66              16.8  7.1  94  0  0.31 0 75.93 197
 FNBB BE ESG       238 20.41                                  94    -0.41 0 75.93 197
 FNBB BE  AMP      238 26.80       780.4 0.34                            75.93 197
 FNBB BN  AMP      238 30.34       788.2 0.36                            75.93 197
 BMBC BZ EP        238 54.07                                       0.1  9 390.5 176
 WAPA BZ EP        239 11.11                                       0.3  8 525.8 156
 YKW3 EN ES        240  7.57                                      -0.3  8 543.5  49

313- 2011 1211 0452  4.7   59.522  -122.644 10.2  0.3 3.0MC 2.9ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       452 17.68   67              16.0  4.7      0  0.01 0 73.41 197
 FNBB BE ISG       452 27.19                                       0.01 0 73.41 197
 FNBB BE  AMP      452 33.26       576.0 0.25                            73.41 197
 FNBB BN  AMP      452 34.14       509.8 0.18                            73.41 197
 BMBC BZ EP        453  1.56                                       0.4  9 388.4 175
 WAPA BZ EP        453 17.44                                      -0.6  8 524.3 156
 YKW3 EE ES        454 16.14                                       0.1  8 546.0  49

314- 2011 1211 0642 20.2   59.529  -122.649 10.0  0.2 2.6MC 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG    C  642 33.38   41              16.0  5.4      0  0.11 0 74.07 196
 FNBB BE ISG       642 42.93                                       0.11 0 74.07 196
 FNBB BE  AMP      642 49.07       298.5 0.27                            74.07 196
 FNBB BN  AMP      642 49.96       246.1 0.18                            74.07 196
 WAPA BZ EP        643 33.37                                      -0.3  8 525.1 156

315- 2011 1211 0728 24.4   59.518  -122.632 10.0  0.0 2.5MC 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       728 37.31   38              17.0  5.7      0  0.01 0 73.17 197
 FNBB BE ESG       728 46.75                                       0.01 0 73.17 197
 FNBB BN  AMP      728 53.97       265.2 0.21                            73.17 197
 FNBB BE  AMP      728 54.50       273.3 0.36                            73.17 197
 YKW3 EE ES        730 35.80                                       0.1  8 545.7  49

316- 2011 1211 0916  1.9   59.533  -122.647 10.0  0.3 2.5MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       916 14.95   35              16.0  5.5      0 -0.11 0 74.53 196
 FNBB BE ESG       916 24.55                                      -0.11 0 74.53 196
 FNBB BE  AMP      916 30.59       218.1 0.29                            74.53 196
 FNBB BN  AMP      916 31.49       198.7 0.22                            74.53 196
 YKW3 EE ES        918 13.58                                       0.4  8 545.3  49

317- 2011 1211 1719 59.1   59.517  -122.649 10.0  0.5 2.6MC 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1720 11.67   42              16.3  6.1      0 -0.21 0 72.79 197
 FNBB BE ESG      1720 21.06                                      -0.21 0 72.79 197
 FNBB BE  AMP     1720 27.35       326.7 0.24                            72.79 197
 FNBB BN  AMP     1720 28.20       330.9 0.25                            72.79 197
 YKW3 EE ES       1722 11.32                                       0.8  8 546.5  49

318- 2011 1212 0025 29.0   59.524  -122.672 17.7  0.0 2.7MC 2.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG       025 41.67   47              15.2  6.5      0  0.01 0 73.21 195
 FNBB BE ISG       025 51.09                                       0.11 0 73.21 195
 FNBB BE  AMP      025 57.26       528.1 0.25                            73.21 195
 FNBB BN  AMP      025 58.14       441.6 0.18                            73.21 195
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 BMBC BZ EP        026 24.62                                      0.0  9 388.8 175
 YKW3 EE ES        027 39.15                                      0.0  8 547.0  49

319- 2011 1212 0152 36.2   59.521  -122.604 10.0  0.0 2.4MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       152 49.28   32              18.1  5.9  94  0  0.01 0 73.98 198
 FNBB BE ISG       152 58.81                          94     0.01 0 73.98 198
 FNBB BE  AMP      153  4.89       167.4 0.36                          73.98 198
 FNBB BN  AMP      153  5.78       194.1 0.19                          73.98 198
 WAPA BZ EP        153 49.44                                      0.0  8 523.3 156

320- 2011 1212 0456 22.2   59.533  -122.583  7.0  0.2 2.8MC 2.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       456 35.58   49              18.7  6.7  94  0  0.11 0 75.62 199
 FNBB BE ESG       456 45.03                          94    -0.21 0 75.62 199
 FNBB BE  AMP      456 51.26       526.2 0.33                          75.62 199
 FNBB BN  AMP      456 52.08       452.4 0.25                          75.62 199
 WAPA BZ EP        457 36.01                                      0.2  8 524.0 156
 YKW3 EE ES        458 33.26                                     -0.1  8 542.6  49

321- 2011 1212 0602  6.1   59.528  -122.654 10.0  0.0 2.6MC 2.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG         6 2 19.21   42              15.8  7.0      0  0.01 0 73.94 196
 FNBB BE ESG         6 2 28.67                                      0.01 0 73.94 196
 FNBB BE  AMP        6 2 34.87       440.4 0.29                          73.94 196
 FNBB BN  AMP        6 2 35.72       382.4 0.17                          73.94 196
 WAPA BZ EP          6 3 19.60                                      0.0  8 525.2 156
 YKW3 EE ES          6 4 17.45                                      0.0  8 545.9  49

322- 2011 1212 0638 41.1   59.526  -122.606 10.0  0.0 2.6MC 2.6ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       638 54.21   41              17.9  6.2  94  0  0.01 0 74.47 198
 FNBB BE ESG       639  3.80                          94     0.01 0 74.47 198
 FNBB BE  AMP      639  9.72       264.9 0.59                          74.47 198
 FNBB BN  AMP      639  9.98       257.8 0.20                          74.47 198
 WAPA BZ EP        639 54.33                                      0.0  8 523.8 156

323- 2011 1212 0759 28.0   59.501  -122.634 13.7  0.1 2.8MC 3.0ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       759 40.59   54              17.3  7.3      0 -0.11 0 71.36 198
 FNBB BE ESG       759 50.07                                      0.11 0 71.36 198
 FNBB BE  AMP      759 56.26       885.2 0.33                          71.36 198
 FNBB BN  AMP      759 57.13       770.0 0.27                          71.36 198
 BMBC BZ EP          8 0 23.82                                      0.0  9 386.1 175
 WAPA BZ EP          8 0 40.41                                     -0.2  8 522.0 156
 YKW3 EE ES          8 1 38.97                                      0.1  8 547.1  49

324- 2011 1212 1134 20.5   59.519  -122.574 13.6  0.0 2.8MC 2.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1134 33.65   49              19.4  4.9  94  0  0.01 0 74.28 200
 FNBB BE ESG      1134 43.22                          94     0.01 0 74.28 200
 FNBB BE  AMP     1134 49.39       473.9 0.25                          74.28 200
 FNBB BN  AMP     1134 50.24       443.6 0.21                          74.28 200
 WAPA BZ EP       1135 33.15                                      0.0  8 522.3 156
 YKW3 EE ES       1136 30.50                                      0.0  8 543.2  49

325- 2011 1212 1309 50.3   59.520  -122.621 10.0  0.2 2.5MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1310  3.37   36              17.4  5.0      0  0.11 0 73.57 198
 FNBB BE ESG      1310 12.86                                      0.11 0 73.57 198
 FNBB BE  AMP     1310 18.96       234.6 0.30                          73.57 198
 FNBB BN  AMP     1310 20.01       279.0 0.21                          73.57 198
 WAPA BZ EP       1311  3.26                                     -0.3  8 523.6 156

326- 2011 1212 1637 38.1   59.553  -122.567 10.0  0.3 2.5MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1637 52.05   36              18.7  6.8      0  0.21 0 78.03 199
 FNBB BN ESG      1638  2.09                                      0.21 0 78.03 199
 FNBB BE  AMP     1638  7.66       207.2 0.26                          78.03 199
 FNBB BN  AMP     1638  8.55       214.9 0.25                          78.03 199
 WAPA BZ EP       1638 51.11                                     -0.5  8 525.7 156

327- 2011 1212 1940 37.4   59.505  -122.623 12.2  0.2 2.7MC 2.7ML
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 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1940 50.09   46              18.0  6.2      0 -0.11 0 71.96 198
 FNBB BE ESG      1940 59.53                                     0.11 0 71.96 198
 FNBB BE  AMP     1941  8.75       368.5 0.22                           71.96 198
 FNBB BN  AMP     1941  9.25       394.4 0.31                           71.96 198
 BMBC BZ EP       1941 33.09                                    -0.3  9 386.4 175
 WAPA BZ EP       1941 50.59                                     0.4  8 522.1 156
 YKW3 EE ES       1942 48.43                                     0.0  8 546.3  49

328- 2011 1212 1955 42.2   59.522  -122.630 10.0  0.3 2.5MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1955 55.00   37              17.0  5.5      0 -0.21 0 73.63 197
 FNBB BE ESG      1956  4.49                                    -0.21 0 73.63 197
 FNBB BE  AMP     1956 10.58       228.5 0.25                           73.63 197
 FNBB BN  AMP     1956 11.47       187.5 0.25                           73.63 197
 BMBC BZ EP       1956 39.12                                     0.5  9 388.3 175

329- 2011 1212 2010  7.2   59.512  -122.647 10.1  0.1 2.7MC 2.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG    D 2010 19.88   43              16.5  5.8      0 -0.11 0 72.29 197
 FNBB BE ESG      2010 29.33                                     0.11 0 72.29 197
 FNBB BE  AMP     2010 35.65       429.4 0.27                           72.29 197
 FNBB BN  AMP     2010 36.46       410.7 0.27                           72.29 197
 WAPA BZ EP       2011 20.26                                    -0.1  8 523.4 156
 YKW3 EE ES       2012 18.75                                     0.1  8 546.8  49

330- 2011 1212 2034 23.5   59.511  -122.596 10.0  0.3 2.4MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2034 36.21   32              18.7  5.7      0 -0.21 0 73.07 199
 FNBB BE ESG      2034 45.63                                    -0.21 0 73.07 199
 FNBB BE  AMP     2034 51.76       210.7 0.30                           73.07 199
 FNBB BN  AMP     2034 52.67       200.3 0.20                           73.07 199
 BMBC BZ EP       2035 20.16                                     0.4  9 387.0 176

331- 2011 1212 2334 16.7   59.514  -122.562  6.9  0.0 3.0MC 3.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG      2334 29.72   65              20.1  6.5      0  0.01 0 74.00 200
 FNBB BE ESG      2334 39.23                                     0.01 0 74.00 200
 FNBB BE  AMP     2334 45.39       879.8 0.29                           74.00 200
 FNBB BN  AMP     2334 46.24       799.9 0.24                           74.00 200
 BMBC BZ EP       2335 13.31                                    -0.1  9 387.1 176
 WAPA BZ EP       2335 30.10                                     0.1  8 521.5 156
 YKW3 EE ES       2336 28.02                                     0.0  8 543.1  49

332- 2011 1213 0252 58.1   59.530  -122.634 10.0  0.2 2.4MC 2.4ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG       253 11.37   31              16.6  5.1      0  0.11 0 74.42 197
 FNBB BE ESG       253 20.96                                     0.11 0 74.42 197
 FNBB BE  AMP      253 27.12       208.0 0.29                           74.42 197
 FNBB BN  AMP      253 27.95       201.7 0.26                           74.42 197
 BMBC BZ EP        253 54.46                                    -0.3  9 389.3 175

333- 2011 1213 1001 32.9   59.521  -122.635 10.0  0.0 2.5MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      10 1 45.85   38              16.8  6.9      0  0.01 0 73.44 197
 FNBB BE ESG      10 1 55.32                                     0.01 0 73.44 197
 FNBB BE  AMP     10 2  1.57       253.8 0.29                           73.44 197
 FNBB BN  AMP     10 2  2.34       227.5 0.30                           73.44 197
 WAPA BZ EP       10 2 46.08                                    -0.1  8 524.0 156

334- 2011 1213 1053 29.2   59.520  -122.580 10.0  0.0 2.7MC 2.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1053 42.32   47              19.1  4.9  94  0  0.01 0 74.31 199
 FNBB BE ISG    D 1053 51.88                                 94     0.01 0 74.31 199
 FNBB BE  AMP     1053 58.09       387.5 0.27                           74.31 199
 FNBB BN  AMP     1053 58.88       384.9 0.29                           74.31 199
 WAPA BZ EP       1054 42.29                                     0.0  8 522.6 156
 YKW3 EE ES       1055 39.99                                     0.0  8 543.4  49

335- 2011 1213 1317 36.9   59.560  -122.645  6.5  0.2 3.1MC 3.1ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      1317 50.58   67              15.2  6.7  94  0  0.11 0 77.48 196
 FNBB BN ISG      1318  0.39                                 94    -0.11 0 77.48 196
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 FNBB BE  AMP     1318  6.37      1022.4 0.24                          77.48 196
 FNBB BN  AMP     1318  7.18       823.0 0.23                          77.48 196
 BMBC BZ EP       1318 34.54                                    0.2  9 392.7 175
 WAPA BZ EP       1318 50.87                                   -0.2  8 528.2 156
 YKW3 EN ES       1319 48.32                                    0.0  8 543.3  50

336- 2011 1213 1843 14.7   59.513  -122.596  9.9  0.2 2.7MC 2.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ IPG      1843 27.68   46              18.3  5.2      0  0.01 0 73.30 199
 FNBB BE ISG      1843 37.04                                    0.01 0 73.30 199
 FNBB BE  AMP     1843 43.36       376.7 0.33                          73.30 199
 FNBB BN  AMP     1843 44.26       394.6 0.24                          73.30 199
 BMBC BZ EP       1844 11.37                                    0.3  9 387.2 176
 WAPA BZ EP       1844 27.35                                   -0.4  8 522.3 156
 YKW3 EE ES       1845 25.79                                    0.0  8 544.6  49

337- 2011 1213 2309  6.0   59.538  -122.662 12.0  0.2 2.5MC 2.5ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      23 9 19.28   35              15.4  7.4      0  0.01 0 74.85 196
 FNBB BE ISG      23 9 28.85                                   -0.11 0 74.85 196
 FNBB BN  AMP     23 9 35.81       264.2 0.25                          74.85 196
 FNBB BE  AMP     23 9 36.21       231.7 0.17                          74.85 196
 BMBC BZ EP       2310  2.34                                   -0.2  9 390.3 175
 WAPA BZ EP       2310 19.68                                    0.3  8 526.4 156
 YKW3 EE ES       2311 16.84                                   -0.1  8 545.6  49

338- 2011 1214 2300 17.6   59.530  -122.664 10.5  0.1 2.8MC 2.8ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      23 0 30.59   48              15.5  7.6      0  0.01 0 73.96 196
 FNBB BE ISG      23 0 40.18                                    0.01 0 73.96 196
 FNBB BE  AMP     23 0 46.24       493.2 0.34                          73.96 196
 FNBB BN  AMP     23 0 47.11       490.5 0.21                          73.96 196
 BMBC BZ EP       23 1 13.94                                   -0.2  9 389.4 175
 WAPA BZ EP       23 1 31.18                                    0.2  8 525.6 156
 YKW3 EE ES       23 2 28.87                                    0.0  8 546.2  49

339- 2011 1216 2329 17.7   59.510  -122.637 11.5  0.1 2.7MC 2.7ML
 STAT SP IPHASW D HRMM SECON CODA AMPLIT PERI AZIMU VELO SNR AR  TRES W  DIS CAZ7
 FNBB BZ EPG      2329 30.36   46              17.1  5.1      0 -0.11 0 72.18 197
 FNBB BE ISG      2329 39.90                                    0.11 0 72.18 197
 FNBB BE  AMP     2329 46.00       412.2 0.31                          72.18 197
 FNBB BN  AMP     2329 46.87       414.7 0.28                          72.18 197
 BMBC BZ EP       2330 13.68                                   -0.1  9 387.0 175
 WAPA BZ EP       2330 30.70                                    0.1  8 522.9 156
 YKW3 EE ES       2331 28.95                                    0.1  8 546.6  49
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