

2001 ADJUSTMENT GPS CONTROL

Adjustment of control by massHighway's Geodetic Survey Section, June 11, 2001.

PROGRAM: PRISM v2.1000 Jun 11 2001
SYSTEM: SPC83 State Plane Coordinate 1983
GEOID: Geoid 96
DATUM: NAD83 North American 1983
ELLIPSOID: GRS80 Geodetic Ref. Sys. 1980
PROJECTION: LC83 Lambert Conformal
ZONE: MA_M 2001 Massachusetts
UNITS: Meters

**OFFICE COPY
NORFOLK COUNTY ENGINEERING
DO NOT REMOVE**

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1 ASHTECH POINTS FILE
2 PROGRAM:          PRISM v2.1000      Jun 11 2001
3 CREATED FROM:     SNAP File          NORTHODE.PRO
4 SYSTEM:           SPC83              State Plane Coordinate 1983
5 DATUM:            NAD83              North American 1983
6 ELLIPSOID:        GRS80             Geodetic Ref. Sys. 1980
7 SEMI-MAJOR AXIS:  6378137.000
8 INVERSE FLATTENING: 298.2572221
9 PROJECTION:        LC83              Lambert Conformal
10 ZONE:             MA_M              2001 Massachusetts (Mainland)
11 UNITS:            METER             METER
12

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POINT	NORTHING	EASTING	HEIGHT	SITE
00001	873500.846	260548.707	4.914	438H
00002	890574.090	255745.667	-19.330	CO-1
00003	868359.695	207468.094	60.548	FK-1
00004	877541.623	207288.860	46.064	MW-1
00005	865181.952	202157.030	37.849	BH-1
00006	861791.870	211049.759	90.849	PV-1
00007	876892.865	240691.351	20.250	HB-1
00008	876489.667	228994.510	22.510	ST30
00009	888000.883	240299.282	-19.407	QC-1
00010	889502.741	232721.782	2.508	MT-1
00011	852084.674	201008.617	112.543	CENT
00012	880671.486	211894.003	20.537	ML-1
00013	865438.927	216106.907	32.533	438P
00014	871137.274	221717.008	59.541	FB-1
00015	874147.003	213218.475	31.542	NF-1
00016	872161.202	230274.795	47.865	SR-1
00017	873086.157	236485.086	46.505	438J
00018	882041.806	235393.652	41.952	RD-1
00019	883484.493	228530.149	-12.165	WW-1
00020	893144.897	223807.032	13.834	0002
00021	888925.310	223815.279	45.898	DH-1
00022	894247.545	218244.591	13.008	WL-1
00023	897378.582	229553.145	23.559	BK-1
00024	888376.503	218131.222	17.256	DV-1
00025	895701.575	237129.930	7.368	SAVN
00026	879485.174	220397.451	21.732	WP-1
00027	894170.330	207424.661	27.295	438M
00028	874585.175	202374.079	40.595	438N
00029	882998.239	244504.548	9.929	438G

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1 ASHTECH POINTS FILE
2 LONG FORMAT
3 PROGRAM:          PRISM v2.1000          Jun 11 2001
4 CREATED FROM:     SNAP File              NORTWODE.PRO
5 SYSTEM:           SPC83                  State Plane Coordinate 1983
6 DATUM:            NAD83                  North American 1983
7 ELLIPSOID:        GRS80                  Geodetic Ref. Sys. 1980
8 SEMI-MAJOR AXIS:   6378137.000
9 INVERSE FLATTENING: 298.2572221
10 PROJECTION:       LC83                  Lambert Conformal
11 ZONE:             MA_M          2001     Massachusetts (Mainland)
12 UNITS:            METER                  METER
13

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POINT	NORTHING	EASTING	HEIGHT	SITE
	SCALE	CONVERGENCE	SLF	
00001	873500.846	260548.707	4.914	438H
	0.9999658	0 29 30.400		0.9999992
00002	890574.090	255745.667	-19.330	CO-1
	0.9999652	0 27 13.924		1.0000030
00003	868359.695	207468.094	60.548	FK-1
	0.9999673	0 03 38.208		0.9999905
00004	877541.623	207288.860	46.064	MW-1
	0.9999650	0 03 33.248		0.9999928
00005	865181.952	202157.030	37.849	BH-1
	0.9999686	0 01 02.997		0.9999941
00006	861791.870	211049.759	90.849	PV-1
	0.9999703	0 05 22.559		0.9999857
00007	876892.865	240691.351	20.250	HB-1
	0.9999651	0 19 50.374		0.9999968
00008	876489.667	228994.510	22.510	ST30
	0.9999651	0 14 08.154		0.9999965
00009	888000.883	240299.282	-19.407	QC-1
	0.9999648	0 19 40.765		1.0000030
00010	889502.741	232721.782	2.508	MT-1
	0.9999650	0 15 58.953		0.9999996
00011	852084.674	201008.617	112.543	CENT
	0.9999766	0 00 29.403		0.9999823
00012	880671.486	211894.003	20.537	ML-1
	0.9999646	0 05 48.134		0.9999968
00013	865438.927	216106.907	32.533	438P
	0.9999685	0 07 50.427		0.9999949
00014	871137.274	221717.008	59.541	FB-1
	0.9999664	0 10 34.791		0.9999907
00015	874147.003	213218.475	31.542	NF-1
	0.9999656	0 06 26.543		0.9999950
00016	872161.202	230274.795	47.865	SR-1
	0.9999661	0 14 45.061		0.9999925
00017	873086.157	236485.086	46.505	438J
	0.9999659	0 17 46.752		0.9999927
00018	882041.806	235393.652	41.952	RD-1
	0.9999646	0 17 16.156		0.9999934
00019	883484.493	228530.149	-12.165	WW-1
	0.9999646	0 13 55.399		1.0000019
00020	893144.897	223807.032	13.834	0002
	0.9999657	0 11 38.059		0.9999978
00021	888925.310	223815.279	45.898	DH-1
	0.9999649	0 11 37.882		0.9999928
00022	894247.545	218244.591	13.008	WL-1
	0.9999660	0 08 55.044		0.9999980
00023	897378.582	229553.145	23.559	BK-1
	0.9999669	0 14 27.064		0.9999963
00024	888376.503	218131.222	17.256	DV-1
	0.9999649	0 08 51.276		0.9999973
00025	895701.575	237129.930	7.368	SAVN
	0.9999664	0 18 09.096		0.9999988

67	00026	879485.174	220397.451	21.732	WP-1
68		0.9999647	0 09 56.926		0.9999966
69	00027	894170.330	207424.661	27.295	438M
70		0.9999660	0 03 37.735		0.9999957
71	00028	874585.175	202374.079	40.595	438N
72		0.9999655	0 01 09.429		0.9999936
73	00029	882998.239	244504.548	9.929	438G
74		0.9999646	0 21 43.050		0.9999984
75					

ASHTech SURVEY NETWORK ADJUSTMENT PACKAGE version 4.1

PROJECT : nortwo FILE : NORTHODE.PRO
 CREATOR : DATE : 06/11/2001
 ELLIPSOID : WGS 1984 PAGE : 1 OF INPUT

ALL INCLUDED POINTS

NAME	LATITUDE/LONGITUDE	SIGMA	HAE/HAMSL	SIGMA	NORTHING/EASTING
438H	42° 6' 34.50665"N 70° 46' 4.41136"W	FIXED FIXED	4.914 32.999	FIXED	4663455.789 353836.482
CO-1	42° 15' 49.13537"N 70° 49' 27.58403"W		-19.330 8.368		4680660.828 349536.221
FK-1	42° 3' 56.16777"N 71° 24' 35.15466"W		60.548 89.501		4659869.857 300627.978
MW-1	42° 8' 53.77401"N 71° 24' 42.53802"W		46.064 74.830		4669054.226 300717.529
BH-1	42° 2' 13.28880"N 71° 28' 26.21621"W		37.849 66.965		4656848.322 295225.563
PV-1	42° 0' 23.14044"N 71° 21' 59.80724"W		90.849 119.856		4653199.413 304016.543
HB-1	42° 8' 29.06337"N 71° 0' 27.89444"W		20.250 48.484		4667427.480 334088.243
ST30	42° 8' 17.86870"N 71° 8' 57.35636"W		22.510 50.934		4667366.973 322384.634
QC-1	42° 14' 29.15349"N 71° 0' 42.19939"W		-19.407 8.610		4678541.930 334021.884
MT-1	42° 15' 19.10302"N 71° 6' 12.40994"W		2.508 30.610		4680265.397 326491.776
CENT	41° 55' 8.78741"N 71° 29' 16.22833"W		112.543 141.911	FIXED	4643788.221 293695.093
ML-1	42° 10' 35.01362"N 71° 21' 21.73396"W		20.537 49.143		4672048.181 305412.910
438P	42° 2' 21.03319"N 71° 18' 19.67638"W	FIXED FIXED	32.533 61.391	FIXED	4656697.460 309178.569
FB-1	42° 5' 25.23864"N 71° 14' 14.98967"W	FIXED FIXED	59.541 88.187		4662229.683 314953.298
NF-1	42° 7' 3.47028"N 71° 20' 24.55468"W	FIXED FIXED	31.542 60.278		4665487.064 306545.851

ASHTech SURVEY NETWORK ADJUSTMENT PACKAGE version 4.1

PROJECT : nortwo FILE : NORTHODE.PRO
 CREATOR : DATE : 06/11/2001
 ELLIPSOID : WGS 1984 PAGE : 2 OF INPUT

ALL INCLUDED POINTS

NAME	LATITUDE/LONGITUDE	SIGMA	HAE/HAMSL	SIGMA	NORTHING/EASTING
SR-1	42° 5' 57.40366"N 71° 8' 2.41239"W	FIXED FIXED	47.865 76.361		4663002.798 323537.689
438J	42° 6' 26.43022"N 71° 3' 31.93092"W	FIXED FIXED	46.505 74.876	FIXED	4663745.613 329772.413
RD-1	42° 11' 16.87125"N 71° 4' 17.47827"W	FIXED FIXED	41.952 70.163		4672729.323 328943.734
WW-1	42° 12' 4.63904"N 71° 9' 16.34429"W	FIXED FIXED	-12.165 16.131		4674372.569 322125.394
0002	42° 17' 18.30720"N 71° 12' 40.80247"W	FIXED FIXED	13.834 41.950	FIXED	4684167.700 317687.539
DH-1	42° 15' 1.54757"N 71° 12' 41.06568"W	FIXED FIXED	45.898 74.118		4679949.502 317571.945
WL-1	42° 17' 54.58325"N 71° 16' 43.48172"W	FIXED FIXED	13.008 41.165		4685433.255 312159.562
BK-1	42° 19' 34.81499"N 71° 8' 29.20549"W	FIXED FIXED	23.559 51.495		4688230.946 323555.669
DV-1	42° 14' 44.30931"N 71° 16' 49.09134"W	FIXED FIXED	17.256 45.558		4679567.663 311873.907
SAVN	42° 18' 39.29887"N 71° 2' 58.66608"W	FIXED FIXED	7.368 35.246		4686332.153 331079.939
WP-1	42° 9' 55.93250"N 71° 15' 11.35829"W	FIXED FIXED	21.732 50.219		4670613.126 313878.639
438M	42° 17' 52.72060"N 71° 24' 35.85875"W	FIXED FIXED	27.295 55.629	FIXED	4685673.830 301341.018
438N	42° 7' 18.06057"N 71° 28' 16.64171"W	FIXED FIXED	40.595 69.507	FIXED	4666242.563 295717.615
438G	42° 11' 46.19537"N 70° 57' 40.15447"W	FIXED FIXED	9.929 37.992	FIXED	4673418.316 338078.533

A D J U S T M E N T
in
W G S 84

SEMI-MAJOR AXIS 6378137.000
INV. FLATTENING 298.257222101

INPUT STATION POSITIONS

STAT	LATITUDE	ST.DEV	LONGITUDE	ST.DEV	HEIGHT	ST.DEV
		(M)		M-EAST		(M)
438H	42 6 34.5067		289 13 55.5886		4.914	
CO-1	42 15 49.1354		289 10 32.4160		-19.330	
FK-1	42 3 56.1678		288 35 24.8453		60.547	
MW-1	42 8 53.7741		288 35 17.4620		46.060	
BH-1	42 2 13.2888		288 31 33.7838		37.847	
PV-1	42 0 23.1404		288 38 .1927		90.848	
HB-1	42 8 29.0634		288 59 32.1056		20.250	
ST30	42 8 17.8687		288 51 2.6436		22.510	
QC-1	42 14 29.1535		288 59 17.8006		-19.407	
MT-1	42 15 19.1030		288 53 47.5901		2.508	
CENT	41 55 8.7874		288 30 43.7717		112.543	
ML-1	42 10 35.0136		288 38 38.2659		20.534	
438P	42 2 21.0332		288 41 40.3236		32.533	
FB-1	42 5 25.2386		288 45 45.0103		59.540	
NF-1	42 7 3.4703		288 39 35.4453		31.541	
SR-1	42 5 57.4037		288 51 57.5876		47.865	
438J	42 6 26.4302		288 56 28.0691		46.505	
RD-1	42 11 16.8713		288 55 42.5217		41.952	
WW-1	42 12 4.6390		288 50 43.6557		-12.165	
0002	42 17 18.3072		288 47 19.1975		13.834	
DH-1	42 15 1.5476		288 47 18.9343		45.901	
WL-1	42 17 54.5833		288 43 16.5183		13.009	
BK-1	42 19 34.8150		288 51 30.7945		23.560	
DV-1	42 14 44.3093		288 43 10.9087		17.258	
SAVN	42 18 39.2989		288 57 1.3339		7.369	
WP-1	42 9 55.9325		288 44 48.6417		21.744	
438M	42 17 52.7206		288 35 24.1413		27.295	
438N	42 7 18.0606		288 31 43.3583		40.595	
438G	42 11 46.1954		289 2 19.8455		9.929	

VECTOR OBSERVATIONS

STATION	TARGET	INSTR	OBSERVATION	ST.DEV	CORRELATION	MATRIX
QC-1 SAVN	.000	.000	4638.5370	.003	1.00	.00
			-3874.9310	.005		.00
			-5728.8530	.005		1.00
BK-1 SAVN	.000	.000	-7530.5140	.005	1.00	.00
			-1372.5590	.008		.00
			1277.4960	.009		1.00
BK-1 QC-1	.000	.000	-12169.0500	.005	1.00	.00
			2502.3710	.009		.00
			7006.3470	.011		1.00
CO-1 438G	.000	.000	9016.6480	.019	1.00	.00
			8478.2860	.026		.00
			5530.6850	.030		1.00
438H CO-1	.000	.000	8188.7330	.026	1.00	.00

67				-9336.1130	.032	1.00	.00
68				-12663.6500	.032		1.00
69	FK-1 438N	.000	.000	6158.9750	.014	1.00	.00
70				-2352.5900	.019		1.00
71				-4609.0760	.020		1.00
72	438P FK-1	.000	.000	8803.0710	.017	1.00	.00
73				916.8320	.022		1.00
74				-2198.3050	.020		1.00
75	438H SAVN	.000	.000	26899.1500	.020	1.00	.00
76				-6587.3520	.024		1.00
77				-16565.8240	.027		1.00
78	CO-1 SAVN	.000	.000	18710.4370	.019	1.00	.00
79				2748.7210	.022		1.00
80				-3902.1190	.024		1.00
81	438H CO-1	.000	.000	8188.7120	.019	1.00	.00
82				-9336.0760	.022		1.00
83				-12663.7020	.024		1.00
84	MW-1 438N	.000	.000	4031.9930	.016	1.00	.00
85				3439.3160	.019		1.00
86				2193.6570	.021		1.00
87	438P MW-1	.000	.000	10930.0450	.024	1.00	.00
88				-4875.0820	.028		1.00
89				-9001.0490	.030		1.00
90	FB-1 BH-1	.000	.000	17280.4600	.024	1.00	.00
91				10000.9530	.032		1.00
92				4411.3870	.026		1.00
93	PV-1 BH-1	.000	.000	9164.0220	.024	1.00	.00
94				638.8060	.030		1.00
95				-2489.2640	.028		1.00
96	FB-1 PV-1	.000	.000	8116.4310	.019	1.00	.00
97				9362.1540	.023		1.00
98				6900.6350	.019		1.00
99	RD-1 HB-1	.000	.000	-6108.1490	.019	1.00	.00
100				1559.4650	.031		1.00
101				3852.3460	.030		1.00
102	ST30 HB-1	.000	.000	-10991.2380	.030	1.00	.00
103				-4014.5340	.060		1.00
104				-254.6040	.047		1.00
105	FK-1 438P	.000	.000	-8803.0830	.013	1.00	.00
106				-916.8270	.020		1.00
107				2198.3050	.019		1.00
108	PV-1 438P	.000	.000	-4004.9100	.012	1.00	.00
109				-3968.7080	.019		1.00
110				-2663.1940	.019		1.00
111	FK-1 PV-1	.000	.000	-4798.1760	.012	1.00	.00
112				3051.8890	.019		1.00
113				4861.4950	.019		1.00
114	QC-1 SAVN	.000	.000	4638.5370	.018	1.00	.00
115				-3874.9240	.024		1.00
116				-5728.8390	.022		1.00
117	MT-1 SAVN	.000	.000	-2852.4990	.017	1.00	.00
118				-5367.4900	.022		1.00
119				-4573.2580	.027		1.00
120	MT-1 QC-1	.000	.000	-7491.0400	.013	1.00	.00
121				-1492.5650	.020		1.00
122				1155.5740	.024		1.00
123	BH-1 438N	.000	.000	1793.1000	.020	1.00	.00
124				-6043.2590	.027		1.00
125				-6981.3050	.024		1.00
126	FK-1 438N	.000	.000	6158.9680	.013	1.00	.00
127				-2352.5830	.022		1.00
128				-4609.0850	.021		1.00
129	BH-1 FK-1	.000	.000	-4365.8590	.011	1.00	.00
130				-3690.6740	.018		1.00
131				-2372.2300	.017		1.00
132	BH-1 CENT	.000	.000	-1708.3080	.019	1.00	.00

133				8724.9110	.021	1.00	.00
134				9686.7780	.027		1.00
135	PV-1 CENT	.000	.000	7455.7030	.028	1.00	.00
136				9363.6870	.031		1.00
137				7197.5160	.040		1.00
138	PV-1 BH-1	.000	.000	9163.9980	.024	1.00	.00
139				638.7790	.028		1.00
140				-2489.2550	.037		1.00
141	RD-1 QC-1	.000	.000	-3360.0600	.008	1.00	.00
142				-5417.2550	.015		1.00
143				-4352.8630	.017		1.00
144	QC-1 MT-1	.000	.000	7491.0160	.012	1.00	.00
145				1492.5500	.024		1.00
146				-1155.5800	.021		1.00
147	RD-1 MT-1	.000	.000	4130.9610	.016	1.00	.00
148				-3924.7140	.034		1.00
149				-5508.4290	.035		1.00
150	HB-1 438G	.000	.000	-2307.1390	.019	1.00	.00
151				-5122.1240	.024		1.00
152				-4501.1950	.024		1.00
153	HB-1 438J	.000	.000	3166.4920	.019	1.00	.00
154				3792.4630	.023		1.00
155				2788.7800	.024		1.00
156	438G QC-1	.000	.000	5055.2240	.015	1.00	.00
157				-1854.6230	.022		1.00
158				-3703.9680	.019		1.00
159	HB-1 QC-1	.000	.000	2748.0860	.020	1.00	.00
160				-6976.7450	.026		1.00
161				-8205.1600	.027		1.00
162	438J SR-1	.000	.000	5684.7660	.017	1.00	.00
163				2582.5090	.020		1.00
164				663.5650	.021		1.00
165	HB-1 SR-1	.000	.000	8851.2570	.024	1.00	.00
166				6374.9740	.032		1.00
167				3452.3460	.033		1.00
168	ST30 SR-1	.000	.000	-2140.0010	.014	1.00	.00
169				2360.4760	.019		1.00
170				3197.7480	.020		1.00
171	438G ST30	.000	.000	13298.4340	.022	1.00	.00
172				9136.6550	.030		1.00
173				4755.8070	.029		1.00
174	438J ST30	.000	.000	7824.7640	.015	1.00	.00
175				222.0290	.020		1.00
176				-2534.1810	.022		1.00
177	HB-1 ST30	.000	.000	10991.2590	.030	1.00	.00
178				4014.5020	.045		1.00
179				254.5930	.050		1.00
180	QC-1 ST30	.000	.000	8243.1920	.019	1.00	.00
181				10991.2710	.033		1.00
182				8459.7800	.026		1.00
183	QC-1 438G	.000	.000	-5055.2170	.019	1.00	.00
184				1854.6090	.023		1.00
185				3703.9740	.025		1.00
186	CO-1 438G	.000	.000	9016.6100	.021	1.00	.00
187				8478.2520	.027		1.00
188				5530.6760	.029		1.00
189	438G SAVN	.000	.000	9693.7560	.032	1.00	.00
190				-5729.5530	.050		1.00
191				-9432.7730	.052		1.00
192	QC-1 SAVN	.000	.000	4638.5380	.008	1.00	.00
193				-3874.9340	.013		1.00
194				-5728.8200	.013		1.00
195	CO-1 QC-1	.000	.000	14071.9010	.022	1.00	.00
196				6623.6540	.026		1.00
197				1826.7280	.028		1.00
198	CO-1 438G	.000	.000	9016.6270	.024	1.00	.00

199				8478.2490	.041	1.00	.00
200				5530.7640	.037		1.00
201	WP-1 438M	.000	.000	15426.9440	.015	1.00	.00
202				-5220.4510	.021		1.00
203				-10896.4500	.026		1.00
204	DV-1 438M	.000	.000	11382.8690	.032	1.00	.00
205				-276.4890	.048		1.00
206				-4308.4780	.057		1.00
207	WP-1 438N	.000	.000	16037.3030	.012	1.00	.00
208				8873.0160	.019		1.00
209				3599.1030	.019		1.00
210	DV-1 438N	.000	.000	11993.2660	.017	1.00	.00
211				13816.9570	.024		1.00
212				10187.0700	.030		1.00
213	MW-1 438N	.000	.000	4031.9910	.023	1.00	.00
214				3439.3150	.023		1.00
215				2193.6600	.023		1.00
216	NF-1 FB-1	.000	.000	-8701.1540	.008	1.00	.00
217				-779.6100	.013		1.00
218				2229.8970	.011		1.00
219	FK-1 FB-1	.000	.000	-12914.5330	.023	1.00	.00
220				-6310.2440	.018		1.00
221				-2039.1360	.018		1.00
222	ML-1 FB-1	.000	.000	-11348.4730	.023	1.00	.00
223				2958.1080	.024		1.00
224				7061.8650	.024		1.00
225	MW-1 FB-1	.000	.000	-15041.5590	.011	1.00	.00
226				-518.3390	.016		1.00
227				4763.5980	.016		1.00
228	NF-1 BH-1	.000	.000	8579.2350	.042	1.00	.00
229				9221.2540	.109		1.00
230				6641.3240	.080		1.00
231	FK-1 NF-1	.000	.000	-4213.3860	.007	1.00	.00
232				-5530.6250	.013		1.00
233				-4269.0560	.013		1.00
234	ML-1 NF-1	.000	.000	-2647.3230	.007	1.00	.00
235				3737.7200	.012		1.00
236				4831.9640	.011		1.00
237	MW-1 NF-1	.000	.000	-6340.3460	.007	1.00	.00
238				261.2610	.011		1.00
239				2533.6560	.010		1.00
240	BH-1 FK-1	.000	.000	-4365.8360	.005	1.00	.00
241				-3690.6400	.009		1.00
242				-2372.2220	.009		1.00
243	FK-1 ML-1	.000	.000	-1566.0770	.010	1.00	.00
244				-9268.3450	.016		1.00
245				-9101.0120	.021		1.00
246	WP-1 ML-1	.000	.000	8312.2290	.012	1.00	.00
247				1957.2370	.019		1.00
248				-892.9190	.021		1.00
249	DV-1 ML-1	.000	.000	4268.2320	.012	1.00	.00
250				6901.1350	.019		1.00
251				5695.0630	.023		1.00
252	BH-1 MW-1	.000	.000	-2238.9000	.009	1.00	.00
253				-9482.5120	.015		1.00
254				-9174.9670	.020		1.00
255	FK-1 MW-1	.000	.000	2126.9540	.009	1.00	.00
256				-5791.8880	.015		1.00
257				-6802.6930	.017		1.00
258	ML-1 MW-1	.000	.000	3693.0250	.005	1.00	.00
259				3476.4560	.010		1.00
260				2298.3100	.009		1.00
261	DV-1 MW-1	.000	.000	7961.2640	.017	1.00	.00
262				10377.6520	.028		1.00
263				7993.3800	.030		1.00
264	BH-1 438N	.000	.000	1793.1070	.020	1.00	.00

265				-6043.2310	.034	1.00	.00
266				-6981.2910	.026		1.00
267	438N CENT	.000	.000	-3501.4430	.008	1.00	.00
268				14768.2320	.015		1.00
269				16668.0680	.017		1.00
270	438P CENT	.000	.000	11460.6350	.011	1.00	.00
271				13332.4400	.019		1.00
272				9860.6770	.015		1.00
273	FK-1 CENT	.000	.000	2657.5390	.007	1.00	.00
274				12415.6390	.012		1.00
275				12058.9930	.014		1.00
276	PV-1 CENT	.000	.000	7455.7190	.016	1.00	.00
277				9363.6790	.027		1.00
278				7197.4540	.022		1.00
279	438N FK-1	.000	.000	-6158.9530	.017	1.00	.00
280				2352.5810	.016		1.00
281				4609.0510	.020		1.00
282	438P FK-1	.000	.000	8803.0530	.013	1.00	.00
283				916.8420	.020		1.00
284				-2198.3060	.019		1.00
285	BH-1 FK-1	.000	.000	-4365.8460	.011	1.00	.00
286				-3690.6480	.017		1.00
287				-2372.2230	.015		1.00
288	PV-1 FK-1	.000	.000	4798.1570	.004	1.00	.00
289				-3051.8760	.006		1.00
290				-4861.4750	.007		1.00
291	438N PV-1	.000	.000	-10957.1960	.023	1.00	.00
292				5404.5350	.024		1.00
293				9470.5620	.024		1.00
294	438P PV-1	.000	.000	4004.8960	.018	1.00	.00
295				3968.6830	.032		1.00
296				2663.1610	.024		1.00
297	BH-1 PV-1	.000	.000	-9163.9860	.012	1.00	.00
298				-638.8020	.024		1.00
299				2489.2720	.018		1.00
300	MW-1 438M	.000	.000	3421.6400	.009	1.00	.00
301				-10654.1460	.013		1.00
302				-12301.8810	.015		1.00
303	BH-1 FB-1	.000	.000	-17280.4440	.011	1.00	.00
304				-10000.9460	.016		1.00
305				-4411.3880	.014		1.00
306	438N CENT	.000	.000	-3501.4710	.043	1.00	.00
307				14768.1990	.068		1.00
308				16668.0830	.020		1.00
309	ML-1 BH-1	.000	.000	5931.9240	.013	1.00	.00
310				12959.0510	.022		1.00
311				11473.3020	.019		1.00
312	WP-1 MW-1	.000	.000	12005.1960	.039	1.00	.00
313				5433.8830	.040		1.00
314				1405.3760	.048		1.00
315	FB-1 438P	.000	.000	4111.5080	.024	1.00	.00
316				5393.4280	.028		1.00
317				4237.4750	.025		1.00
318	FB-1 438N	.000	.000	19073.5630	.025	1.00	.00
319				3957.6710	.029		1.00
320				-2569.9190	.032		1.00
321	NF-1 438N	.000	.000	10372.3640	.025	1.00	.00
322				3178.0600	.029		1.00
323				-340.0010	.032		1.00
324	NF-1 FB-1	.000	.000	-8701.1770	.024	1.00	.00
325				-779.6120	.029		1.00
326				2229.9290	.034		1.00
327	WW-1 438J	.000	.000	-9763.0150	.027	1.00	.00
328				4106.8660	.039		1.00
329				7696.7020	.040		1.00
330	FB-1 438P	.000	.000	4111.5000	.018	1.00	.00

331				5393.4400	.023	1.00	.00
332				4237.4690	.018		1.00
333	SR-1 438P	.000	.000	11998.5370	.021	1.00	.00
334				8792.5810	.032		1.00
335				4966.0660	.025		1.00
336	RD-1 SAVN	.000	.000	1278.4970	.022	1.00	.00
337				-9292.2080	.026		1.00
338				-10081.6490	.032		1.00
339	DV-1 WL-1	.000	.000	1146.7330	.015	1.00	.00
340				-3784.4230	.022		1.00
341				-4341.4030	.017		1.00
342	DV-1 0002	.000	.000	-4359.7710	.018	1.00	.00
343				-4858.0380	.021		1.00
344				-3514.0110	.023		1.00
345	DH-1 0002	.000	.000	916.0840	.013	1.00	.00
346				-2711.4500	.020		1.00
347				-3100.9990	.018		1.00
348	BK-1 0002	.000	.000	4541.7000	.015	1.00	.00
349				4535.9500	.017		1.00
350				3121.5110	.021		1.00
351	WL-1 0002	.000	.000	-5506.5000	.016	1.00	.00
352				-1073.6390	.023		1.00
353				827.4140	.021		1.00
354	NF-1 FB-1	.000	.000	-8701.1890	.016	1.00	.00
355				-779.6220	.019		1.00
356				2229.9340	.017		1.00
357	SR-1 FB-1	.000	.000	7887.0400	.020	1.00	.00
358				3399.1190	.023		1.00
359				728.6090	.022		1.00
360	SR-1 NF-1	.000	.000	16588.2270	.019	1.00	.00
361				4178.7680	.024		1.00
362				-1501.3300	.022		1.00
363	RD-1 438J	.000	.000	-2941.6560	.018	1.00	.00
364				5351.9510	.028		1.00
365				6641.1380	.023		1.00
366	SR-1 438J	.000	.000	-5684.7720	.018	1.00	.00
367				-2582.4990	.021		1.00
368				-663.5710	.024		1.00
369	SR-1 438J	.000	.000	-5684.7850	.019	1.00	.00
370				-2582.5010	.026		1.00
371				-663.5580	.020		1.00
372	FB-1 SR-1	.000	.000	-7887.0290	.021	1.00	.00
373				-3399.1420	.025		1.00
374				-728.6190	.031		1.00
375	RD-1 SR-1	.000	.000	2743.1300	.016	1.00	.00
376				7934.4520	.025		1.00
377				7304.7090	.020		1.00
378	SR-1 RD-1	.000	.000	-2743.1250	.023	1.00	.00
379				-7934.4780	.049		1.00
380				-7304.6990	.039		1.00
381	SR-1 RD-1	.000	.000	-2743.1360	.015	1.00	.00
382				-7934.4480	.027		1.00
383				-7304.7350	.019		1.00
384	WW-1 SR-1	.000	.000	-4078.2370	.014	1.00	.00
385				6689.3610	.019		1.00
386				8360.3020	.017		1.00
387	DV-1 DH-1	.000	.000	-5275.8360	.016	1.00	.00
388				-2146.5980	.021		1.00
389				-412.9750	.020		1.00
390	DH-1 SAVN	.000	.000	-11156.1320	.020	1.00	.00
391				-8619.9570	.028		1.00
392				-4945.0350	.023		1.00
393	BK-1 DH-1	.000	.000	3625.6030	.017	1.00	.00
394				7247.3960	.024		1.00
395				6222.5110	.020		1.00
396	WW-1 DH-1	.000	.000	5613.2220	.017	1.00	.00

397				-1917.3790	.024	1.00	.00
398				-4081.0560	.024		1.00
399	BK-1 SAVN	.000	.000	-7530.5040	.013	1.00	.00
400				-1372.5590	.019		1.00
401				1277.5040	.019		1.00
402	WW-1 SAVN	.000	.000	-5542.8840	.018	1.00	.00
403				-10537.2970	.022		1.00
404				-9026.0810	.020		1.00
405	DH-1 WP-1	.000	.000	1231.7970	.015	1.00	.00
406				7090.5470	.021		1.00
407				7000.9350	.021		1.00
408	WP-1 DV-1	.000	.000	4044.0570	.019	1.00	.00
409				-4943.9210	.028		1.00
410				-6587.9560	.022		1.00
411	WL-1 438M	.000	.000	10236.1520	.019	1.00	.00
412				3507.9150	.029		1.00
413				32.9020	.025		1.00
414	DV-1 438M	.000	.000	11382.8750	.030	1.00	.00
415				-276.5100	.035		1.00
416				-4308.4830	.034		1.00
417	DV-1 WL-1	.000	.000	1146.7160	.017	1.00	.00
418				-3784.3920	.022		1.00
419				-4341.3920	.020		1.00
420	NF-1 WP-1	.000	.000	-5664.8950	.021	1.00	.00
421				-5694.9400	.030		1.00
422				-3939.0470	.025		1.00
423	NF-1 DV-1	.000	.000	-1620.8820	.029	1.00	.00
424				-10638.8730	.035		1.00
425				-10527.0020	.033		1.00
426	WP-1 DV-1	.000	.000	4044.0200	.019	1.00	.00
427				-4943.9210	.025		1.00
428				-6587.9430	.026		1.00
429	RD-1 438G	.000	.000	-8415.3020	.020	1.00	.00
430				-3562.6160	.034		1.00
431				-648.8620	.023		1.00
432	WW-1 438G	.000	.000	-15236.6910	.025	1.00	.00
433				-4807.7830	.034		1.00
434				406.7330	.029		1.00
435	WP-1 FB-1	.000	.000	-3036.2570	.016	1.00	.00
436				4915.3050	.021		1.00
437				6168.9990	.022		1.00
438	WW-1 RD-1	.000	.000	-6821.3560	.018	1.00	.00
439				-1245.1120	.023		1.00
440				1055.5870	.020		1.00
441	WW-1 SR-1	.000	.000	-4078.2470	.021	1.00	.00
442				6689.3710	.028		1.00
443				8360.2880	.027		1.00
444	RD-1 438G	.000	.000	-8415.3000	.019	1.00	.00
445				-3562.6480	.027		1.00
446				-648.8610	.026		1.00

SOL 1: Observations= .38D+03 Coordinates= .00D+00 Change VPV= .38D+03
 Largest change in horizontal : 2.812601855278939E-003
 Largest change in vertical : 1.181843241024099E-002
 SOL 2: Observations= .38D+03 Coordinates= .00D+00 Change VPV= -.13D-05
 Largest change in horizontal : 2.561325715405146E-009
 Largest change in vertical : 2.168139688741279E-009
 SOL 4: Observations= .38D+03 Coordinates= .00D+00 Change VPV= .17D-06
 Largest change in horizontal : 2.557934556355976E-009
 Largest change in vertical : 1.056770877067911E-009

Summary of observation types
 0 slant distances (EDM)
 0 azimuths
 0 altitudes (trigonometric)

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463         0 horizontal angles
464         0 leveled height differences
465         131 GPS vector observations
466
467         Scaling of variance-covariance matrices:
468         GPS          .102D+02
469         Terrestrial  .102D+02
470
471
472         No.of observations      393
473         No. of parameters      43
474         No. of observed parameters    0
475         No. of singularities    0
476         Degree of freedom      350
477         A-posteriori variance of unit weight  .108D+01
478         VPV                    .380D+03
479
480         Significance level (=Prob. in both tails)  .050
481         Confidence limit      300.06      403.72
482

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483 ACCEPT

486 ADJUSTED VECTOR OBSERVATIONS - STANDARD

488	STAT	STAT	OBSERVATION	RESIDUAL	NEU	ADJ. OBS TAU
489			MARK TO MARK		(MM)	
491	QC-1	SAVN	4638.537	.000	3	4638.537
492			-3874.931	-.002	-1	-3874.933
493			-5728.853	.006	6	-5728.847
495	BK-1	SAVN	-7530.514	-.001	-1	-7530.515
496			-1372.559	-.002	-2	-1372.561
497			1277.496	.001	2	1277.497
499	BK-1	QC-1	-12169.050	-.002	-2	-12169.052
500			2502.371	.001	-2	2502.372
501			7006.347	-.004	-4	7006.343
503	CO-1	438G	9016.648	-.002	6	9016.646
504			8478.286	-.005	-4	8478.281
505			5530.685	.011	10	5530.696
507	438H	CO-1	8188.733	-.006	-5	8188.727
508			-9336.113	.050	11	-9336.063
509			-12663.650	-.051	-71	-12663.701
511	FK-1	438N	6158.975	.017	4	6158.992
512			-2352.590	.005	18	-2352.585
513			-4609.076	.007	5	-4609.069
515	438P	FK-1	8803.071	.005	-30	8803.076
516			916.832	-.025	-4	916.807
517			-2198.305	-.017	7	-2198.322
519	438H	SAVN	26899.150	.000	6	26899.150
520			-6587.352	.017	6	-6587.335
521			-16565.824	-.007	-17	-16565.831
523	CO-1	SAVN	18710.437	-.014	-1	18710.423
524			2748.721	.007	-11	2748.728
525			-3902.119	-.011	-16	-3902.130
527	438H	CO-1	8188.712	.015	6	8188.727
528			-9336.076	.013	19	-9336.063

529			-12663.702	.001	-5	-12663.701
530						
531	MW-1	438N	4031.993	.047	-3	4032.040
532			3439.316	.002	45	3439.318
533			2193.657	.008	15	2193.665
534						
535	438P	MW-1	10930.045	-.017	-11	10930.028
536			-4875.082	-.014	-21	-4875.096
537			-9001.049	-.008	1	-9001.057
538						
539	FB-1	BH-1	17280.460	-.023	-17	17280.437
540			10000.953	-.026	-30	10000.927
541			4411.387	-.007	8	4411.380
542						
543	PV-1	BH-1	9164.022	-.016	-14	9164.006
544			638.806	-.034	-27	638.772
545			-2489.264	.005	23	-2489.259
546						
547	FB-1	PV-1	8116.431	.000	4	8116.431
548			9362.154	.001	1	9362.155
549			6900.635	.004	2	6900.639
550						
551	RD-1	HB-1	-6108.149	.002	14	-6108.147
552			1559.465	.020	8	1559.485
553			3852.346	.002	-12	3852.348
554						
555	ST30	HB-1	-10991.238	-.028	16	-10991.266
556			-4014.534	.018	-21	-4014.516
557			-254.604	-.002	-21	-254.606
558						
559	FK-1	438P	-8803.083	.007	24	-8803.076
560			-916.827	.020	13	-916.807
561			2198.305	.017	-1	2198.322
562						
563	PV-1	438P	-4004.910	-.005	34	-4004.915
564			-3968.708	.016	0	-3968.692
565			-2663.194	.030	7	-2663.164
566						
567	FK-1	PV-1	-4798.176	.015	-12	-4798.161
568			3051.889	-.004	13	3051.885
569			4861.495	-.008	1	4861.487
570						
571	QC-1	SAVN	4638.537	.000	-12	4638.537
572			-3874.924	-.009	-3	-3874.933
573			-5728.839	-.008	1	-5728.847
574						
575	MT-1	SAVN	-2852.499	.008	-7	-2852.491
576			-5367.490	-.002	7	-5367.492
577			-4573.258	-.006	-1	-4573.264
578						
579	MT-1	QC-1	-7491.040	.012	8	-7491.028
580			-1492.565	.006	14	-1492.559
581			1155.574	.009	4	1155.583
582						
583	BH-1	438N	1793.100	.047	7	1793.147
584			-6043.259	.017	50	-6043.242
585			-6981.305	.008	5	-6981.297
586						
587	FK-1	438N	6158.968	.024	5	6158.992
588			-2352.583	-.002	22	-2352.585
589			-4609.085	.016	18	-4609.069
590						
591	BH-1	FK-1	-4365.859	.014	10	-4365.845
592			-3690.674	.018	19	-3690.656
593			-2372.230	.002	-7	-2372.228
594						

595	BH-1	CENT	-1708.308	.008	23	-1708.300
596			8724.911	.059	27	8724.970
597			9686.778	-.016	-50	9686.762
598						
599	PV-1	CENT	7455.703	.003	24	7455.706
600			9363.687	.055	21	9363.742
601			7197.516	-.013	-46	7197.503
602						
603	PV-1	BH-1	9163.998	.008	-9	9164.006
604			638.779	-.007	5	638.772
605			-2489.255	-.004	4	-2489.259
606						
607	RD-1	QC-1	-3360.060	-.003	14	-3360.063
608			-5417.255	-.019	-9	-5417.274
609			-4352.863	.034	35	-4352.829
610						
611	QC-1	MT-1	7491.016	.012	1	7491.028
612			1492.550	.009	14	1492.559
613			-1155.580	-.003	-5	-1155.583
614						
615	RD-1	MT-1	4130.961	.004	11	4130.965
616			-3924.714	-.001	3	-3924.715
617			-5508.429	.017	13	-5508.412
618						
619	HB-1	438G	-2307.139	-.017	-8	-2307.156
620			-5122.124	-.015	-21	-5122.139
621			-4501.195	-.003	4	-4501.198
622						
623	HB-1	438J	3166.492	-.006	24	3166.486
624			3792.463	.025	2	3792.488
625			2788.780	.009	-13	2788.789
626						
627	438G	QC-1	5055.224	.016	-10	5055.240
628			-1854.623	.003	16	-1854.620
629			-3703.968	-.011	-6	-3703.979
630						
631	HB-1	QC-1	2748.086	-.002	-21	2748.084
632			-6976.745	-.014	-6	-6976.759
633			-8205.160	-.018	-3	-8205.178
634						
635	438J	SR-1	5684.766	.026	-7	5684.792
636			2582.509	-.003	23	2582.506
637			663.565	.001	10	663.566
638						
639	HB-1	SR-1	8851.257	.020	15	8851.277
640			6374.974	.019	26	6374.993
641			3452.346	.010	-2	3452.356
642						
643	ST30	SR-1	-2140.001	.012	-1	-2139.989
644			2360.476	.001	12	2360.477
645			3197.748	.002	3	3197.750
646						
647	438G	ST30	13298.434	-.012	1	13298.422
648			9136.655	.000	-11	9136.655
649			4755.807	-.003	-5	4755.804
650						
651	438J	ST30	7824.764	.017	-6	7824.781
652			222.029	-.001	15	222.028
653			-2534.181	-.002	3	-2534.183
654						
655	HB-1	ST30	10991.259	.007	17	10991.266
656			4014.502	.014	11	4014.516
657			254.593	.013	1	254.606
658						
659	QC-1	ST30	8243.192	-.010	7	8243.182
660			10991.271	.004	-8	10991.275

661			8459.780	.004	-3	8459.784
662						
663	QC-1	438G	-5055.217	-.023	16	-5055.240
664			1854.609	.011	-18	1854.620
665			3703.974	.005	-10	3703.979
666						
667	CO-1	438G	9016.610	.036	25	9016.646
668			8478.252	.029	43	8478.281
669			5530.676	.020	2	5530.696
670						
671	438G	SAVN	9693.756	.021	-44	9693.777
672			-5729.553	.000	20	-5729.553
673			-9432.773	-.053	-31	-9432.826
674						
675	QC-1	SAVN	4638.538	-.001	-19	4638.537
676			-3874.934	.001	-1	-3874.933
677			-5728.820	-.027	-19	-5728.847
678						
679	CO-1	QC-1	14071.901	-.015	-1	14071.886
680			6623.654	.007	-12	6623.661
681			1826.728	-.011	-16	1826.717
682						
683	CO-1	438G	9016.627	.019	-34	9016.646
684			8478.249	.032	28	8478.281
685			5530.764	-.068	-64	5530.696
686						
687	WP-1	438M	15426.944	-.003	-14	15426.941
688			-5220.451	.006	-1	-5220.445
689			-10896.450	-.025	-22	-10896.475
690						
691	DV-1	438M	11382.869	.036	-45	11382.905
692			-276.489	-.023	27	-276.512
693			-4308.478	-.030	5	-4308.508
694						
695	WP-1	438N	16037.303	.024	-17	16037.327
696			8873.016	.010	26	8873.026
697			3599.103	-.025	-18	3599.078
698						
699	DV-1	438N	11993.266	.026	-23	11993.292
700			13816.957	.002	25	13816.959
701			10187.070	-.024	-11	10187.046
702						
703	MW-1	438N	4031.991	.049	-5	4032.040
704			3439.315	.003	47	3439.318
705			2193.660	.005	13	2193.665
706						
707	NF-1	FB-1	-8701.154	-.030	31	-8701.184
708			-779.610	.001	-29	-779.609
709			2229.897	.033	14	2229.930
710						
711	FK-1	FB-1	-12914.533	-.059	-16	-12914.592
712			-6310.244	-.027	-65	-6310.271
713			-2039.136	-.016	-6	-2039.152
714						
715	ML-1	FB-1	-11348.473	-.039	25	-11348.512
716			2958.108	-.007	-39	2958.101
717			7061.865	.028	15	7061.893
718						
719	MW-1	FB-1	-15041.559	.015	-33	-15041.544
720			-518.339	-.028	5	-518.367
721			4763.598	-.016	13	4763.582
722						
723	NF-1	BH-1	8579.235	.018	26	8579.253
724			9221.254	.064	38	9221.318
725			6641.324	-.014	-50	6641.310
726						

727	FK-1	NF-1	-4213.386	-.022	-37	-4213.408
728			-5530.625	-.036	-32	-5530.661
729			-4269.056	-.026	3	-4269.082
730						
731	ML-1	NF-1	-2647.323	-.005	-6	-2647.328
732			3737.720	-.010	-8	3737.710
733			4831.964	-.001	5	4831.963
734						
735	MW-1	NF-1	-6340.346	-.014	-12	-6340.360
736			261.261	-.019	-19	261.242
737			2533.656	-.004	8	2533.652
738						
739	BH-1	FK-1	-4365.836	-.009	-13	-4365.845
740			-3690.640	-.016	-14	-3690.656
741			-2372.222	-.006	5	-2372.228
742						
743	FK-1	ML-1	-1566.077	-.003	-41	-1566.080
744			-9268.345	-.027	-11	-9268.372
745			-9101.012	-.033	-4	-9101.045
746						
747	WP-1	ML-1	8312.229	.027	12	8312.256
748			1957.237	.003	26	1957.240
749			-892.919	.021	19	-892.898
750						
751	DV-1	ML-1	4268.232	-.012	31	4268.220
752			6901.135	.038	1	6901.173
753			5695.063	.007	-25	5695.070
754						
755	BH-1	MW-1	-2238.900	.007	-28	-2238.893
756			-9482.512	-.048	-9	-9482.560
757			-9174.967	.005	39	-9174.962
758						
759	FK-1	MW-1	2126.954	-.002	-40	2126.952
760			-5791.888	-.015	-7	-5791.903
761			-6802.693	-.041	-17	-6802.734
762						
763	ML-1	MW-1	3693.025	.007	7	3693.032
764			3476.456	.012	10	3476.468
765			2298.310	.001	-6	2298.311
766						
767	DV-1	MW-1	7961.264	-.012	-4	7961.252
768			10377.652	-.011	-15	10377.641
769			7993.380	.001	6	7993.381
770						
771	BH-1	438N	1793.107	.040	-20	1793.147
772			-6043.231	-.011	34	-6043.242
773			-6981.291	-.006	13	-6981.297
774						
775	438N	CENT	-3501.443	-.003	-19	-3501.446
776			14768.232	-.021	-10	14768.211
777			16668.068	-.009	8	16668.059
778						
779	438P	CENT	11460.635	-.014	-9	11460.621
780			13332.440	-.007	-15	13332.433
781			9860.677	-.010	-5	9860.667
782						
783	FK-1	CENT	2657.539	.006	-12	2657.545
784			12415.639	-.013	2	12415.626
785			12058.993	-.003	8	12058.990
786						
787	PV-1	CENT	7455.719	-.013	79	7455.706
788			9363.679	.063	8	9363.742
789			7197.454	.049	-14	7197.503
790						
791	438N	FK-1	-6158.953	-.039	25	-6158.992
792			2352.581	.004	-35	2352.585

793			4609.051	.018	0	4609.069	
794							
795	438P	FK-1	8803.053	.023	-39	8803.076	
796			916.842	-.035	10	916.807	
797			-2198.306	-.016	19	-2198.322	
798							
799	BH-1	FK-1	-4365.846	.001	-9	-4365.845	
800			-3690.648	-.008	-2	-3690.656	
801			-2372.223	-.005	3	-2372.228	
802							
803	PV-1	FK-1	4798.157	.004	-15	4798.161	
804			-3051.876	-.009	1	-3051.885	
805			-4861.475	-.012	-1	-4861.487	
806							
807	438N	PV-1	-10957.196	.043	-55	-10957.153	
808			5404.535	-.065	20	5404.470	
809			9470.562	-.006	52	9470.556	
810							
811	438P	PV-1	4004.896	.019	4	4004.915	
812			3968.683	.009	21	3968.692	
813			2663.161	.003	1	2663.164	
814							
815	BH-1	PV-1	-9163.986	-.020	14	-9164.006	
816			-638.802	.030	-9	-638.772	
817			2489.272	-.013	-35	2489.259	
818							
819	MW-1	438M	3421.640	.013	-13	3421.653	
820			-10654.146	-.007	10	-10654.153	
821			-12301.881	-.007	3	-12301.888	
822							
823	BH-1	FB-1	-17280.444	.007	16	-17280.437	
824			-10000.946	.019	13	-10000.927	
825			-4411.388	.008	-6	-4411.380	
826							
827	438N	CENT	-3501.471	.025	-15	-3501.446	
828			14768.199	.012	27	14768.211	
829			16668.083	-.024	-19	16668.059	
830							
831	ML-1	BH-1	5931.924	.001	-36	5931.925	
832			12959.051	-.023	-7	12959.028	
833			11473.302	-.029	-3	11473.273	
834							
835	WP-1	MW-1	12005.196	.091	-103	12005.287	*
836			5433.883	-.175	29	5433.708	*
837			1405.376	.038	170	1405.414	*
838							
839	FB-1	438P	4111.508	.008	21	4111.516	
840			5393.428	.036	19	5393.464	
841			4237.475	-.001	-24	4237.474	
842							
843	FB-1	438N	19073.563	.021	6	19073.584	
844			3957.671	.015	25	3957.686	
845			-2569.919	.002	-4	-2569.917	
846							
847	NF-1	438N	10372.364	.035	13	10372.399	
848			3178.060	.016	39	3178.076	
849			-340.001	.014	6	-339.987	
850							
851	NF-1	FB-1	-8701.177	-.007	4	-8701.184	
852			-779.612	.003	-6	-779.609	
853			2229.929	.001	-3	2229.930	
854							
855	WW-1	438J	-9763.015	-.016	20	-9763.031	
856			4106.866	-.005	-17	4106.861	
857			7696.702	.026	17	7696.728	
858							

859	FB-1	438P	4111.500	.016	16	4111.516
860			5393.440	.024	23	5393.464
861			4237.469	.005	-9	4237.474
862						
863	SR-1	438P	11998.537	.022	20	11998.559
864			8792.581	.035	33	8792.616
865			4966.066	.004	-16	4966.070
866						
867	RD-1	SAVN	1278.497	-.023	-14	1278.474
868			-9292.208	.001	-21	-9292.207
869			-10081.649	-.027	-25	-10081.676
870						
871	DV-1	WL-1	1146.733	-.002	7	1146.731
872			-3784.423	.010	1	-3784.413
873			-4341.403	.000	-7	-4341.403
874						
875	DV-1	0002	-4359.771	-.004	1	-4359.775
876			-4858.038	-.017	-9	-4858.055
877			-3514.011	.015	21	-3513.996
878						
879	DH-1	0002	916.084	-.004	-7	916.080
880			-2711.450	.003	-3	-2711.447
881			-3100.999	-.013	-12	-3101.012
882						
883	BK-1	0002	4541.700	.002	-1	4541.702
884			4535.950	-.003	1	4535.947
885			3121.511	.002	4	3121.513
886						
887	WL-1	0002	-5506.500	-.005	-6	-5506.505
888			-1073.639	-.003	-6	-1073.642
889			827.414	-.007	-4	827.407
890						
891	NF-1	FB-1	-8701.189	.005	4	-8701.184
892			-779.622	.013	8	-779.609
893			2229.934	-.004	-10	2229.930
894						
895	SR-1	FB-1	7887.040	.003	10	7887.043
896			3399.119	.033	14	3399.152
897			728.609	-.014	-31	728.595
898						
899	SR-1	NF-1	16588.227	.001	-8	16588.228
900			4178.768	-.007	-2	4178.761
901			-1501.330	-.005	2	-1501.335
902						
903	RD-1	438J	-2941.656	-.006	15	-2941.662
904			5351.951	.022	2	5351.973
905			6641.138	-.001	-17	6641.137
906						
907	SR-1	438J	-5684.772	-.020	4	-5684.792
908			-2582.499	-.007	-21	-2582.506
909			-663.571	.005	3	-663.566
910						
911	SR-1	438J	-5684.785	-.007	-8	-5684.792
912			-2582.501	-.005	-8	-2582.506
913			-663.558	-.008	-4	-663.566
914						
915	FB-1	SR-1	-7887.029	-.014	15	-7887.043
916			-3399.142	-.010	-17	-3399.152
917			-728.619	.024	19	-728.595
918						
919	RD-1	SR-1	2743.130	.000	13	2743.130
920			7934.452	.026	9	7934.478
921			7304.709	-.005	-22	7304.704
922						
923	SR-1	RD-1	-2743.125	-.005	-3	-2743.130
924			-7934.478	.000	-5	-7934.478

925			-7304.699	-.005	-4	-7304.704
926						
927	SR-1	RD-1	-2743.136	.006	3	-2743.130
928			-7934.448	-.030	-4	-7934.478
929			-7304.735	.031	44	-7304.704
930						
931	WW-1	SR-1	-4078.237	-.003	-2	-4078.240
932			6689.361	.005	-1	6689.366
933			8360.302	-.008	-9	8360.294
934						
935	DV-1	DH-1	-5275.836	-.018	-9	-5275.854
936			-2146.598	-.010	-21	-2146.608
937			-412.975	-.009	-3	-412.984
938						
939	DH-1	SAVN	-11156.132	-.005	7	-11156.137
940			-8619.957	.002	-4	-8619.955
941			-4945.035	.007	2	-4945.028
942						
943	BK-1	DH-1	3625.603	.019	5	3625.622
944			7247.396	-.002	17	7247.394
945			6222.511	.014	15	6222.525
946						
947	WW-1	DH-1	5613.222	.019	4	5613.241
948			-1917.379	.015	23	-1917.364
949			-4081.056	-.001	-7	-4081.057
950						
951	BK-1	SAVN	-7530.504	-.011	-4	-7530.515
952			-1372.559	-.002	-11	-1372.561
953			1277.504	-.007	-6	1277.497
954						
955	WW-1	SAVN	-5542.884	-.012	-15	-5542.896
956			-10537.297	-.022	-18	-10537.319
957			-9026.081	-.005	9	-9026.086
958						
959	DH-1	WP-1	1231.797	.022	4	1231.819
960			7090.547	-.006	19	7090.541
961			7000.935	.016	20	7000.951
962						
963	WP-1	DV-1	4044.057	-.022	-11	4044.035
964			-4943.921	-.012	-25	-4943.933
965			-6587.956	-.011	-5	-6587.967
966						
967	WL-1	438M	10236.152	.023	-19	10236.175
968			3507.915	-.014	17	3507.901
969			32.902	-.007	11	32.895
970						
971	DV-1	438M	11382.875	.030	-26	11382.905
972			-276.510	-.002	28	-276.512
973			-4308.483	-.025	-8	-4308.508
974						
975	DV-1	WL-1	1146.716	.015	-25	1146.731
976			-3784.392	-.021	7	-3784.413
977			-4341.392	-.011	11	-4341.403
978						
979	NF-1	WP-1	-5664.895	-.033	-13	-5664.928
980			-5694.940	-.010	-34	-5694.950
981			-3939.047	-.019	-14	-3939.066
982						
983	NF-1	DV-1	-1620.882	-.011	-27	-1620.893
984			-10638.873	-.010	-13	-10638.883
985			-10527.002	-.031	-17	-10527.033
986						
987	WP-1	DV-1	4044.020	.015	-29	4044.035
988			-4943.921	-.012	10	-4943.933
989			-6587.943	-.024	-4	-6587.967
990						

991	RD-1	438G	-8415.302	-.001	-15	-8415.303
992			-3562.616	-.038	-14	-3562.654
993			-648.862	.012	34	-648.850
994						
995	WW-1	438G	-15236.691	.018	12	-15236.673
996			-4807.783	.017	22	-4807.766
997			406.733	.008	-2	406.741
998						
999	WP-1	FB-1	-3036.257	.000	20	-3036.257
1000			4915.305	.035	12	4915.340
1001			6168.999	-.003	-27	6168.996
1002						
1003	WW-1	RD-1	-6821.356	-.014	6	-6821.370
1004			-1245.112	.000	-13	-1245.112
1005			1055.587	.004	-1	1055.591
1006						
1007	WW-1	SR-1	-4078.247	.007	0	-4078.240
1008			6689.371	-.005	5	6689.366
1009			8360.288	.006	10	8360.294
1010						
1011	RD-1	438G	-8415.300	-.003	5	-8415.303
1012			-3562.648	-.006	-5	-3562.654
1013			-648.861	.011	11	-648.850
1014						
1015						
1016						
1017						
1018						

ADJUSTED STATION POSITIONS

STAT	LATITUDE			ST.DEV	LONGITUDE			ST.DEV	HEIGHT	ST.DEV
				(M)				M-EAST		(M)
1021										
1022										
1023										
1024	438H	42	6	34.50665		289	13	55.58864		4.914
1025	CO-1	42	15	49.13537	.01	289	10	32.41597	.01	-19.330
1026	FK-1	42	3	56.16777	.00	288	35	24.84534	.00	60.549
1027	MW-1	42	8	53.77401	.01	288	35	17.46198	.00	46.064
1028	BH-1	42	2	13.28880	.01	288	31	33.78379	.00	37.849
1029	PV-1	42	0	23.14044	.01	288	38	.19276	.00	90.849
1030	HB-1	42	8	29.06337	.01	288	59	32.10556	.01	20.250
1031	ST30	42	8	17.86870	.01	288	51	2.64364	.01	22.510
1032	QC-1	42	14	29.15349	.00	288	59	17.80061	.00	-19.408
1033	MT-1	42	15	19.10302	.01	288	53	47.59006	.01	2.508
1034	CENT	41	55	8.78741	.01	288	30	43.77167	.01	112.543
1035	ML-1	42	10	35.01362	.01	288	38	38.26604	.00	20.537
1036	438P	42	2	21.03319		288	41	40.32362		32.533
1037	FB-1	42	5	25.23864		288	45	45.01033		59.541
1038	NF-1	42	7	3.47028		288	39	35.44532		31.543
1039	SR-1	42	5	57.40366		288	51	57.58761		47.865
1040	438J	42	6	26.43022		288	56	28.06908		46.505
1041	RD-1	42	11	16.87125		288	55	42.52173		41.952
1042	WW-1	42	12	4.63904		288	50	43.65571		-12.166
1043	0002	42	17	18.30720		288	47	19.19753		13.834
1044	DH-1	42	15	1.54757		288	47	18.93432		45.899
1045	WL-1	42	17	54.58325		288	43	16.51828		13.009
1046	BK-1	42	19	34.81499		288	51	30.79451		23.559
1047	DV-1	42	14	44.30931		288	43	10.90866		17.256
1048	SAVN	42	18	39.29887		288	57	1.33392		7.368
1049	WP-1	42	9	55.93250		288	44	48.64171		21.732
1050	438M	42	17	52.72060		288	35	24.14125		27.295
1051	438N	42	7	18.06057		288	31	43.35829		40.595
1052	438G	42	11	46.19537		289	2	19.84553		9.929

1053
1054
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1056

ADJUSTED STATION POSITIONS - WEST LONGITUDES								
1057								
1058								
1059	STAT	LATITUDE			LONGITUDE		HEIGHT	
1060								
1061	438H	42	6	34.50665	70	46	4.41136	4.914
1062	CO-1	42	15	49.13537	70	49	27.58403	-19.330
1063	FK-1	42	3	56.16777	71	24	35.15466	60.549
1064	MW-1	42	8	53.77401	71	24	42.53802	46.064
1065	BH-1	42	2	13.28880	71	28	26.21621	37.849
1066	PV-1	42	0	23.14044	71	21	59.80724	90.849
1067	HB-1	42	8	29.06337	71	0	27.89444	20.250
1068	ST30	42	8	17.86870	71	8	57.35636	22.510
1069	QC-1	42	14	29.15349	71	0	42.19939	-19.408
1070	MT-1	42	15	19.10302	71	6	12.40994	2.508
1071	CENT	41	55	8.78741	71	29	16.22833	112.543
1072	ML-1	42	10	35.01362	71	21	21.73396	20.537
1073	438P	42	2	21.03319	71	18	19.67638	32.533
1074	FB-1	42	5	25.23864	71	14	14.98967	59.541
1075	NF-1	42	7	3.47028	71	20	24.55468	31.543
1076	SR-1	42	5	57.40366	71	8	2.41239	47.865
1077	438J	42	6	26.43022	71	3	31.93092	46.505
1078	RD-1	42	11	16.87125	71	4	17.47827	41.952
1079	WW-1	42	12	4.63904	71	9	16.34429	-12.166
1080	0002	42	17	18.30720	71	12	40.80247	13.834
1081	DH-1	42	15	1.54757	71	12	41.06568	45.899
1082	WL-1	42	17	54.58325	71	16	43.48172	13.009
1083	BK-1	42	19	34.81499	71	8	29.20549	23.559
1084	DV-1	42	14	44.30931	71	16	49.09134	17.256
1085	SAVN	42	18	39.29887	71	2	58.66608	7.368
1086	WP-1	42	9	55.93250	71	15	11.35829	21.732
1087	438M	42	17	52.72060	71	24	35.85875	27.295
1088	438N	42	7	18.06057	71	28	16.64171	40.595
1089	438G	42	11	46.19537	70	57	40.15447	9.929

1090

1091

1092 AJUSTED MINUS APPROXIMATE COORDINATES (M)

1093

1094		NORTHING	EASTING	HEIGHT
1095	438H	.000	.000	.000
1096	CO-1	.000	.000	.000
1097	FK-1	.000	.000	.002
1098	MW-1	-.001	.001	.004
1099	BH-1	.000	.001	.002
1100	PV-1	.000	.001	.001
1101	HB-1	.000	.000	.000
1102	ST30	.000	.000	.000
1103	QC-1	.000	.000	-.001
1104	MT-1	.000	.000	.000
1105	CENT	.000	.000	.000
1106	ML-1	.001	.003	.003
1107	438P	.000	.000	.000
1108	FB-1	.000	.000	.001
1109	NF-1	.000	.000	.002
1110	SR-1	.000	.000	.000
1111	438J	.000	.000	.000
1112	RD-1	.000	.000	.000
1113	WW-1	.000	.000	-.001
1114	0002	.000	.000	.000
1115	DH-1	.000	.000	-.002
1116	WL-1	.000	.000	.000
1117	BK-1	.000	.000	-.001
1118	DV-1	.000	.000	-.002
1119	SAVN	.000	.000	-.001
1120	WP-1	.000	.000	-.012
1121	438M	.000	.000	.000
1122	438N	.000	.000	.000

1123 438G .000 .000 .000

1124

1125

1126 HISTOGRAM PLOT

1127

1128 Popes blunder criteria: TAU(*) = 3.794

1129 Type I err probability: ALPHA = .050

1130

1131 X Y .00 20.40 40.80 61.20 81.60 102.00

1132 /-----/-----/-----/-----/-----/

1133 -3.25 3 .+

1134 -2.75 4 .-+

1135 -2.25 5 .-+

1136 -1.75 15 .----.-+

1137 -1.25 20 .----.-++

1138 -.75 51 .----.-+-----+-----+-----+

1139 -.25 102 .----.-+-----+-----+-----+-----+-----+

1140 .25 92 .----.-+-----+-----+-----+-----+

1141 .75 44 .----.-+-----+-----+-----+

1142 1.25 31 .----.-+-----+-----+

1143 1.75 15 .----.-+

1144 2.25 8 .----+

1145 2.75 3 .+

1146 3.25 0 +

1147

1148

1149 Chi square: .101D+03

1150 95 % limit: 21.03 DF= 12

1151 Test fails

1152

1153 Observations beyond 3 sigma: 3

1154

1155 Chi square without observation beyond 3 sigma:

1156

1157 Chi square: .301D+02

1158 95 % limit: 19.68 DF= 11

1159 Test fails

1160

1161

1162

1163 *****

1164 ** Confidence level: one sigma *

1165 ** Factor: 1.000 *

1166 ** DF 350 *

1167 *****

1168

1169 Relative H O R I Z O N T A L E L L I P S E S

1170 in centimeters (north-east)

1171

1172 QC-1 SAVN .400 .242 11.6

1173 Stat fixed BK-1 SAVN

1174 BK-1 QC-1 .400 .242 11.6

1175 Stat fixed 438P 438M

1176 CO-1 438G 1.075 .835 10.6

1177 438H CO-1 1.075 .835 10.6

1178 Stat fixed 438P 438N

1179 FK-1 438N .478 .325 12.5

1180 438P FK-1 .478 .325 12.5

1181 Stat fixed 438H SAVN

1182 CO-1 SAVN 1.075 .835 10.6

1183 438H CO-1 1.075 .835 10.6

1184 Stat fixed 438P 438N

1185 MW-1 438N .535 .353 12.1

1186 438P MW-1 .535 .353 12.1

1187 FB-1 BH-1 .606 .407 13.6

1188 PV-1 BH-1 .699 .463 13.3

1189	FB-1	PV-1	.624	.434	13.0
1190	RD-1	HB-1	1.186	.886	12.3
1191	ST30	HB-1	1.568	1.137	12.9
1192	FK-1	438P	.478	.325	12.5
1193	PV-1	438P	.624	.434	13.0
1194	FK-1	PV-1	.540	.360	11.9
1195	QC-1	SAVN	.400	.242	11.6
1196	MT-1	SAVN	1.303	.788	11.4
1197	MT-1	QC-1	1.288	.778	11.6
1198	BH-1	438N	.606	.407	13.6
1199	FK-1	438N	.478	.325	12.5
1200	BH-1	FK-1	.563	.354	13.3
1201	BH-1	CENT	.893	.563	12.6
1202	PV-1	CENT	.884	.566	12.5
1203	PV-1	BH-1	.699	.463	13.3
1204	RD-1	QC-1	.400	.242	11.6
1205	QC-1	MT-1	1.288	.778	11.6
1206	RD-1	MT-1	1.303	.788	11.4
1207	HB-1	438G	1.186	.886	12.3
1208	HB-1	438J	1.186	.886	12.3
1209	438G	QC-1	.400	.242	11.6
1210	HB-1	QC-1	1.226	.906	12.3
1211	Stat fixed	438J SR-1			
1212		HB-1 SR-1	1.186	.886	12.3
1213		ST30 SR-1	1.160	.850	12.9
1214		438G ST30	1.160	.850	12.9
1215		438J ST30	1.160	.850	12.9
1216		HB-1 ST30	1.568	1.137	12.9
1217		QC-1 ST30	1.205	.871	13.0
1218		QC-1 438G	.400	.242	11.6
1219		CO-1 438G	1.075	.835	10.6
1220	Stat fixed	438G SAVN			
1221		QC-1 SAVN	.400	.242	11.6
1222		CO-1 QC-1	1.126	.860	10.8
1223		CO-1 438G	1.075	.835	10.6
1224	Stat fixed	438N 438M			
1225	Stat fixed	WP-1 438M			
1226	Stat fixed	DV-1 438M			
1227	Stat fixed	WP-1 438N			
1228	Stat fixed	DV-1 438N			
1229		MW-1 438N	.535	.353	12.1
1230	Stat fixed	NF-1 FB-1			
1231		FK-1 FB-1	.478	.325	12.5
1232		ML-1 FB-1	.638	.406	12.6
1233		MW-1 FB-1	.535	.353	12.1
1234		NF-1 BH-1	.606	.407	13.6
1235		FK-1 NF-1	.478	.325	12.5
1236		ML-1 NF-1	.638	.406	12.6
1237		MW-1 NF-1	.535	.353	12.1
1238		BH-1 FK-1	.563	.354	13.3
1239		FK-1 ML-1	.733	.462	12.1
1240		WP-1 ML-1	.638	.406	12.6
1241		DV-1 ML-1	.638	.406	12.6
1242		BH-1 MW-1	.733	.468	12.1
1243		FK-1 MW-1	.654	.418	11.6
1244		ML-1 MW-1	.681	.426	12.7
1245		DV-1 MW-1	.535	.353	12.1
1246	Stat fixed	438P 438N			
1247		BH-1 438N	.606	.407	13.6
1248		438N CENT	.788	.491	13.0
1249		438P CENT	.788	.491	13.0
1250		FK-1 CENT	.800	.490	12.2
1251		PV-1 CENT	.884	.566	12.5
1252		438N FK-1	.478	.325	12.5
1253		438P FK-1	.478	.325	12.5
1254		BH-1 FK-1	.563	.354	13.3

1255	PV-1 FK-1	.540	.360	11.9
1256	438N PV-1	.624	.434	13.0
1257	438P PV-1	.624	.434	13.0
1258	BH-1 PV-1	.699	.463	13.3
1259	MW-1 438M	.535	.353	12.1
1260	BH-1 FB-1	.606	.407	13.6
1261	438N CENT	.788	.491	13.0
1262	ML-1 BH-1	.805	.512	12.9
1263	WP-1 MW-1	.535	.353	12.1
1264	Stat fixed FB-1 438P			
1265	Stat fixed FB-1 438N			
1266	Stat fixed NF-1 438N			
1267	Stat fixed NF-1 FB-1			
1268	Stat fixed WW-1 438J			
1269	Stat fixed FB-1 438P			
1270	Stat fixed SR-1 438P			
1271	Stat fixed RD-1 SAVN			
1272	Stat fixed DV-1 WL-1			
1273	Stat fixed DV-1 0002			
1274	Stat fixed DH-1 0002			
1275	Stat fixed BK-1 0002			
1276	Stat fixed WL-1 0002			
1277	Stat fixed NF-1 FB-1			
1278	Stat fixed SR-1 FB-1			
1279	Stat fixed SR-1 NF-1			
1280	Stat fixed RD-1 438J			
1281	Stat fixed SR-1 438J			
1282	Stat fixed SR-1 438J			
1283	Stat fixed FB-1 SR-1			
1284	Stat fixed RD-1 SR-1			
1285	Stat fixed SR-1 RD-1			
1286	Stat fixed SR-1 RD-1			
1287	Stat fixed WW-1 SR-1			
1288	Stat fixed DV-1 DH-1			
1289	Stat fixed DH-1 SAVN			
1290	Stat fixed BK-1 DH-1			
1291	Stat fixed WW-1 DH-1			
1292	Stat fixed BK-1 SAVN			
1293	Stat fixed WW-1 SAVN			
1294	Stat fixed DH-1 WP-1			
1295	Stat fixed WP-1 DV-1			
1296	Stat fixed WL-1 438M			
1297	Stat fixed DV-1 438M			
1298	Stat fixed DV-1 WL-1			
1299	Stat fixed NF-1 WP-1			
1300	Stat fixed NF-1 DV-1			
1301	Stat fixed WP-1 DV-1			
1302	Stat fixed RD-1 438G			
1303	Stat fixed WW-1 438G			
1304	Stat fixed WP-1 FB-1			
1305	Stat fixed WW-1 RD-1			
1306	Stat fixed WW-1 SR-1			
1307	Stat fixed RD-1 438G			
1308				
1309				
1310				
1311	*****			
1312	** Confidence level: one sigma			*
1313	** Factor: 1.000			*
1314	** DF 350			*
1315	*****			
1316				
1317	Relative V E R T I C A L E L L I P S E S			
1318	in centimeters (height-east)			
1319				
1320	QC-1 SAVN	.431	.242	10.4

1321	Both Y	fixed BK-1 SAVN			
1322		BK-1 QC-1	.610	.248	176.2
1323	Hghs	fixed 438P 438M			
1324		CO-1 438G	1.094	.833	169.1
1325		438H CO-1	1.094	.833	169.1
1326	Hghs	fixed 438P 438N			
1327		FK-1 438N	.501	.327	169.9
1328		438P FK-1	.501	.327	169.9
1329	Both Y	fixed 438H SAVN			
1330		CO-1 SAVN	1.182	.837	7.3
1331		438H CO-1	1.094	.833	169.1
1332	Hghs	fixed 438P 438N			
1333		MW-1 438N	.615	.357	172.3
1334		438P MW-1	.615	.357	172.3
1335		FB-1 BH-1	.728	.412	172.3
1336		PV-1 BH-1	.703	.460	165.6
1337		FB-1 PV-1	.770	.440	173.5
1338		RD-1 HB-1	1.350	.890	171.6
1339		ST30 HB-1	1.574	1.132	166.0
1340		FK-1 438P	.501	.327	169.9
1341		PV-1 438P	.634	.434	167.5
1342		FK-1 PV-1	.539	.358	166.8
1343		QC-1 SAVN	.431	.242	10.4
1344		MT-1 SAVN	1.309	.784	12.2
1345		MT-1 QC-1	1.282	.772	167.2
1346		BH-1 438N	.644	.408	168.6
1347		FK-1 438N	.501	.327	169.9
1348		BH-1 FK-1	.567	.351	165.6
1349		BH-1 CENT	.658	.559	28.7
1350		PV-1 CENT	.650	.559	31.4
1351		PV-1 BH-1	.703	.460	165.6
1352		RD-1 QC-1	.902	.249	178.3
1353		QC-1 MT-1	1.282	.772	167.2
1354		RD-1 MT-1	1.482	.791	171.1
1355		HB-1 438G	1.211	.885	167.9
1356		HB-1 438J	1.211	.885	167.9
1357		438G QC-1	.754	.249	177.8
1358		HB-1 QC-1	1.308	.907	169.7
1359	Both Y	fixed 438J SR-1			
1360		HB-1 SR-1	1.314	.889	9.0
1361		ST30 SR-1	1.244	.853	10.4
1362		438G ST30	1.196	.849	167.5
1363		438J ST30	1.196	.849	167.5
1364		HB-1 ST30	1.574	1.132	166.0
1365		QC-1 ST30	1.316	.873	169.6
1366		QC-1 438G	.754	.249	177.8
1367		CO-1 438G	1.094	.833	169.1
1368	Both Y	fixed 438G SAVN			
1369		QC-1 SAVN	.431	.242	10.4
1370		CO-1 QC-1	1.185	.861	171.0
1371		CO-1 438G	1.094	.833	169.1
1372	Hghs	fixed 438N 438M			
1373	Both Y	fixed WP-1 438M			
1374	Both Y	fixed DV-1 438M			
1375	Both Y	fixed WP-1 438N			
1376	Both Y	fixed DV-1 438N			
1377		MW-1 438N	.615	.357	172.3
1378	Both Y	fixed NF-1 FB-1			
1379		FK-1 FB-1	.661	.331	4.5
1380		ML-1 FB-1	.790	.413	6.8
1381		MW-1 FB-1	.703	.359	5.4
1382		NF-1 BH-1	.769	.411	172.4
1383		FK-1 NF-1	.671	.329	5.5
1384		ML-1 NF-1	.727	.408	9.6
1385		MW-1 NF-1	.657	.356	7.7
1386		BH-1 FK-1	.567	.351	165.6

1387		FK-1 ML-1	.750	.460	167.6
1388		WP-1 ML-1	.974	.416	176.0
1389		DV-1 ML-1	.985	.416	175.9
1390		BH-1 MW-1	.734	.465	166.9
1391		FK-1 MW-1	.653	.416	167.4
1392		ML-1 MW-1	.686	.422	166.3
1393		DV-1 MW-1	.948	.361	177.3
1394	Hghs fixed	438P 438N			
1395		BH-1 438N	.644	.408	168.6
1396	Hghs fixed	438N CENT			
1397	Hghs fixed	438P CENT			
1398		FK-1 CENT	.531	.471	50.5
1399		PV-1 CENT	.650	.559	31.4
1400		438N FK-1	.501	.327	169.9
1401		438P FK-1	.501	.327	169.9
1402		BH-1 FK-1	.567	.351	165.6
1403		PV-1 FK-1	.539	.358	166.8
1404		438N PV-1	.634	.434	167.5
1405		438P PV-1	.634	.434	167.5
1406		BH-1 PV-1	.703	.460	165.6
1407		MW-1 438M	.615	.357	172.3
1408		BH-1 FB-1	.728	.412	7.7
1409	Hghs fixed	438N CENT			
1410		ML-1 BH-1	.822	.510	166.8
1411		WP-1 MW-1	.947	.361	177.4
1412	Both Y	fixed FB-1 438P			
1413	Both Y	fixed FB-1 438N			
1414	Both Y	fixed NF-1 438N			
1415	Both Y	fixed NF-1 FB-1			
1416	Both Y	fixed WW-1 438J			
1417	Both Y	fixed FB-1 438P			
1418	Both Y	fixed SR-1 438P			
1419	Both Y	fixed RD-1 SAVN			
1420	Both Y	fixed DV-1 WL-1			
1421	Both Y	fixed DV-1 0002			
1422	Both Y	fixed DH-1 0002			
1423	Both Y	fixed BK-1 0002			
1424	Both Y	fixed WL-1 0002			
1425	Both Y	fixed NF-1 FB-1			
1426	Both Y	fixed SR-1 FB-1			
1427	Both Y	fixed SR-1 NF-1			
1428	Both Y	fixed RD-1 438J			
1429	Both Y	fixed SR-1 438J			
1430	Both Y	fixed SR-1 438J			
1431	Both Y	fixed FB-1 SR-1			
1432	Both Y	fixed RD-1 SR-1			
1433	Both Y	fixed SR-1 RD-1			
1434	Both Y	fixed SR-1 RD-1			
1435	Both Y	fixed WW-1 SR-1			
1436	Both Y	fixed DV-1 DH-1			
1437	Both Y	fixed DH-1 SAVN			
1438	Both Y	fixed BK-1 DH-1			
1439	Both Y	fixed WW-1 DH-1			
1440	Both Y	fixed BK-1 SAVN			
1441	Both Y	fixed WW-1 SAVN			
1442	Both Y	fixed DH-1 WP-1			
1443	Both Y	fixed WP-1 DV-1			
1444	Both Y	fixed WL-1 438M			
1445	Both Y	fixed DV-1 438M			
1446	Both Y	fixed DV-1 WL-1			
1447	Both Y	fixed NF-1 WP-1			
1448	Both Y	fixed NF-1 DV-1			
1449	Both Y	fixed WP-1 DV-1			
1450	Both Y	fixed RD-1 438G			
1451	Both Y	fixed WW-1 438G			
1452	Both Y	fixed WP-1 FB-1			

1453 Both Y fixed WW-1 RD-1
1454 Both Y fixed WW-1 SR-1
1455 Both Y fixed RD-1 438G
1456
1457
1458

1459 ** Confidence level: one sigma *
1460 ** Factor: 1.000 *
1461 ** DF 350 *
1462 *****
1463

3D - R E L A T I V E E R R O R E L L I P S E S

Station Major Interm. Minor Azimuth Altitude
(CM) (CM) (CM) (of MAJOR axis)
(DEG) (DEG)

1470
1471 Station(s) fixedQC-1 SAVN
1472 Station(s) fixedBK-1 SAVN
1473 Station(s) fixedBK-1 QC-1
1474 Station(s) fixed438P 438M
1475 Station(s) fixedCO-1 438G
1476 Station(s) fixed438H CO-1
1477 Station(s) fixed438P 438N
1478 Station(s) fixedFK-1 438N
1479 Station(s) fixed438P FK-1
1480 Station(s) fixed438H SAVN
1481 Station(s) fixedCO-1 SAVN
1482 Station(s) fixed438H CO-1
1483 Station(s) fixed438P 438N
1484 Station(s) fixedMW-1 438N
1485 Station(s) fixed438P MW-1
1486 Station(s) fixedFB-1 BH-1
1487 PV-1 BH-1 .71 .69 .45 28.3 48.2
1488 Station(s) fixedFB-1 PV-1
1489 Station(s) fixedRD-1 HB-1
1490 ST30 HB-1 1.57 1.57 1.11 324.6 71.9
1491 Station(s) fixedFK-1 438P
1492 Station(s) fixedPV-1 438P
1493 FK-1 PV-1 .55 .53 .35 359.6 43.1
1494 Station(s) fixedQC-1 SAVN
1495 Station(s) fixedMT-1 SAVN
1496 MT-1 QC-1 1.33 1.24 .74 359.7 43.1
1497 Station(s) fixedBH-1 438N
1498 Station(s) fixedFK-1 438N
1499 BH-1 FK-1 .57 .56 .34 28.7 49.0
1500 Station(s) fixedBH-1 CENT
1501 Station(s) fixedPV-1 CENT
1502 PV-1 BH-1 .71 .69 .45 28.3 48.2
1503 Station(s) fixedRD-1 QC-1
1504 QC-1 MT-1 1.33 1.24 .74 359.7 43.1
1505 Station(s) fixedRD-1 MT-1
1506 Station(s) fixedHB-1 438G
1507 Station(s) fixedHB-1 438J
1508 Station(s) fixed438G QC-1
1509 HB-1 QC-1 1.31 1.22 .89 323.0 76.2
1510 Station(s) fixed438J SR-1
1511 Station(s) fixedHB-1 SR-1
1512 Station(s) fixedST30 SR-1
1513 Station(s) fixed438G ST30
1514 Station(s) fixed438J ST30
1515 HB-1 ST30 1.57 1.57 1.11 324.6 71.9
1516 QC-1 ST30 1.32 1.20 .85 261.8 79.2
1517 Station(s) fixedQC-1 438G
1518 Station(s) fixedCO-1 438G

1519	Station(s) fixed438G SAVN					
1520	Station(s) fixedQC-1 SAVN					
1521	CO-1 QC-1	1.21	1.11	.85	351.7	62.6
1522	Station(s) fixedCO-1 438G					
1523	Station(s) fixed438N 438M					
1524	Station(s) fixedWP-1 438M					
1525	Station(s) fixedDV-1 438M					
1526	Station(s) fixedWP-1 438N					
1527	Station(s) fixedDV-1 438N					
1528	Station(s) fixedMW-1 438N					
1529	Station(s) fixedNF-1 FB-1					
1530	Station(s) fixedFK-1 FB-1					
1531	Station(s) fixedML-1 FB-1					
1532	Station(s) fixedMW-1 FB-1					
1533	Station(s) fixedNF-1 BH-1					
1534	Station(s) fixedFK-1 NF-1					
1535	Station(s) fixedML-1 NF-1					
1536	Station(s) fixedMW-1 NF-1					
1537	BH-1 FK-1	.57	.56	.34	28.7	49.0
1538	FK-1 ML-1	.76	.73	.44	347.5	62.3
1539	Station(s) fixedWP-1 ML-1					
1540	Station(s) fixedDV-1 ML-1					
1541	BH-1 MW-1	.75	.72	.45	358.4	46.1
1542	FK-1 MW-1	.67	.64	.40	359.4	44.3
1543	ML-1 MW-1	.69	.68	.41	265.6	76.0
1544	Station(s) fixedDV-1 MW-1					
1545	Station(s) fixed438P 438N					
1546	Station(s) fixedBH-1 438N					
1547	Station(s) fixed438N CENT					
1548	Station(s) fixed438P CENT					
1549	Station(s) fixedFK-1 CENT					
1550	Station(s) fixedPV-1 CENT					
1551	Station(s) fixed438N FK-1					
1552	Station(s) fixed438P FK-1					
1553	BH-1 FK-1	.57	.56	.34	28.7	49.0
1554	PV-1 FK-1	.55	.53	.35	359.6	43.1
1555	Station(s) fixed438N PV-1					
1556	Station(s) fixed438P PV-1					
1557	BH-1 PV-1	.71	.69	.45	28.3	48.2
1558	Station(s) fixedMW-1 438M					
1559	Station(s) fixedBH-1 FB-1					
1560	Station(s) fixed438N CENT					
1561	ML-1 BH-1	.82	.80	.49	250.7	74.9
1562	Station(s) fixedWP-1 MW-1					
1563	Station(s) fixedFB-1 438P					
1564	Station(s) fixedFB-1 438N					
1565	Station(s) fixedNF-1 438N					
1566	Station(s) fixedNF-1 FB-1					
1567	Station(s) fixedWW-1 438J					
1568	Station(s) fixedFB-1 438P					
1569	Station(s) fixedSR-1 438P					
1570	Station(s) fixedRD-1 SAVN					
1571	Station(s) fixedDV-1 WL-1					
1572	Station(s) fixedDV-1 0002					
1573	Station(s) fixedDH-1 0002					
1574	Station(s) fixedBK-1 0002					
1575	Station(s) fixedWL-1 0002					
1576	Station(s) fixedNF-1 FB-1					
1577	Station(s) fixedSR-1 FB-1					
1578	Station(s) fixedSR-1 NF-1					
1579	Station(s) fixedRD-1 438J					
1580	Station(s) fixedSR-1 438J					
1581	Station(s) fixedSR-1 438J					
1582	Station(s) fixedFB-1 SR-1					
1583	Station(s) fixedRD-1 SR-1					
1584	Station(s) fixedSR-1 RD-1					

1585 Station(s) fixedSR-1 RD-1
 1586 Station(s) fixedWW-1 SR-1
 1587 Station(s) fixedDV-1 DH-1
 1588 Station(s) fixedDH-1 SAVN
 1589 Station(s) fixedBK-1 DH-1
 1590 Station(s) fixedWW-1 DH-1
 1591 Station(s) fixedBK-1 SAVN
 1592 Station(s) fixedWW-1 SAVN
 1593 Station(s) fixedDH-1 WP-1
 1594 Station(s) fixedWP-1 DV-1
 1595 Station(s) fixedWL-1 438M
 1596 Station(s) fixedDV-1 438M
 1597 Station(s) fixedDV-1 WL-1
 1598 Station(s) fixedNF-1 WP-1
 1599 Station(s) fixedNF-1 DV-1
 1600 Station(s) fixedWP-1 DV-1
 1601 Station(s) fixedRD-1 438G
 1602 Station(s) fixedWW-1 438G
 1603 Station(s) fixedWP-1 FB-1
 1604 Station(s) fixedWW-1 RD-1
 1605 Station(s) fixedWW-1 SR-1
 1606 Station(s) fixedRD-1 438G

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1610 *****
 1611 ** Confidence level: one sigma *
 1612 ** Factor: 1.000 *
 1613 ** DF 350 *
 1614 *****

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1616 Error ellipses
 1617 (in GEODETIC HORIZON)

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STATION	MAJOR (CM)	MINOR (CM)	AZIMUTH (DEG.)
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1622 438H FIXED STATION

1623	CO-1	1.07	.83	10.6
1624	FK-1	.48	.33	12.5
1625	MW-1	.53	.35	12.1
1626	BH-1	.61	.41	13.6
1627	PV-1	.62	.43	13.0
1628	HB-1	1.19	.89	12.3
1629	ST30	1.16	.85	12.9
1630	QC-1	.40	.24	11.6
1631	MT-1	1.30	.79	11.4
1632	CENT	.79	.49	13.0
1633	ML-1	.64	.41	12.6

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1635 438P FIXED STATION

1636 FB-1 FIXED STATION

1637 NF-1 FIXED STATION

1638 SR-1 FIXED STATION

1639 438J FIXED STATION

1640 RD-1 FIXED STATION

1641 WW-1 FIXED STATION

1642 0002 FIXED STATION

1643 DH-1 FIXED STATION

1644 WL-1 FIXED STATION

1645 BK-1 FIXED STATION

1646 DV-1 FIXED STATION

1647 SAVN FIXED STATION

1648 WP-1 FIXED STATION

1649 438M FIXED STATION

1650 438N FIXED STATION

1650 438G FIXED STATION

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*****
** Confidence level:  one sigma      *
** Factor:           1.000          *
** DF                350            *
*****
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E r r o r e l l i p s e s
(in HEIGHT - EASTING plane)

STATION	MAJOR (CM)	MINOR (CM)	ZENITH (DEG.)
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438H FIXED STATION

CO-1	1.09	.83	169.1
FK-1	.50	.33	169.9
MW-1	.61	.36	172.3
BH-1	.64	.41	168.6
PV-1	.63	.43	167.5
HB-1	1.21	.89	167.9
ST30	1.20	.85	167.5
QC-1	.75	.25	177.8
MT-1	1.44	.79	170.7

CENT FIXED STATION

ML-1	.74	.41	171.5
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438P FIXED STATION

FB-1 FIXED STATION

NF-1 FIXED STATION

SR-1 FIXED STATION

438J FIXED STATION

RD-1 FIXED STATION

WW-1 FIXED STATION

0002 FIXED STATION

DH-1 FIXED STATION

WL-1 FIXED STATION

BK-1 FIXED STATION

DV-1 FIXED STATION

SAVN FIXED STATION

WP-1 FIXED STATION

438M FIXED STATION

438N FIXED STATION

438G FIXED STATION

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*****
** Confidence level:  one sigma      *
** Factor:           1.000          *
** DF                350            *
*****
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3D - E R R O R E L L I P S E S

Station	Major (CM)	Interm. (CM)	Minor (CM)	Azimuth (of MAJOR axis) (DEG)	Altitude (DEG)
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438H At least one coordinate fixed

CO-1	1.12	1.05	.82	356.3	51.8
FK-1	.50	.48	.32	333.1	74.1
MW-1	.62	.53	.35	330.6	77.7
BH-1	.64	.60	.40	236.1	74.5
PV-1	.63	.62	.42	257.0	76.6
HB-1	1.22	1.18	.87	344.3	65.3

1717	ST30	1.20	1.16	.83	279.5	77.8
1718	QC-1	.75	.40	.24	304.4	87.4
1719	MT-1	1.45	1.29	.76	340.0	71.5
1720	CENT At least one coordinate fixed					
1721	ML-1	.74	.64	.40	303.9	80.7
1722	438P At least one coordinate fixed					
1723	FB-1 At least one coordinate fixed					
1724	NF-1 At least one coordinate fixed					
1725	SR-1 At least one coordinate fixed					
1726	438J At least one coordinate fixed					
1727	RD-1 At least one coordinate fixed					
1728	WW-1 At least one coordinate fixed					
1729	0002 At least one coordinate fixed					
1730	DH-1 At least one coordinate fixed					
1731	WL-1 At least one coordinate fixed					
1732	BK-1 At least one coordinate fixed					
1733	DV-1 At least one coordinate fixed					
1734	SAVN At least one coordinate fixed					
1735	WP-1 At least one coordinate fixed					
1736	438M At least one coordinate fixed					
1737	438N At least one coordinate fixed					
1738	438G At least one coordinate fixed					

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1742 *****

1743 ** Confidence level: one sigma *

1744 ** Factor: 1.000 *

1745 ** DF 350 *

1746 *****

1747

1748 GPS ADJUSTED DISTANCES (MARK TO MARK)

1749 AND THEIR STANDARD DEVIATIONS (VECTOR.DAT)

1750

				AA	A	B	C1	C2-I	C2-II
1751									
1752									
1753									
1754	QC-1 SAVN	8327.714	.004	.003 *	.005 *	.012	.084	.168	.417
1755	BK-1 SAVN	7760.450	.000	.003	.005	.011	.078	.156	.389
1756	BK-1 QC-1	14263.118	.003	.003 *	.005 *	.016	.143	.286	.714
1757	CO-1 438G	13556.170	.010	.003 *	.005 *	.016 *	.136	.272	.678
1758	438H CO-1	17736.591	.010	.003 *	.005 *	.019 *	.178	.355	.887
1759	FK-1 438N	8044.337	.004	.003 *	.005 *	.011	.081	.162	.403
1760	438P FK-1	9119.611	.003	.003 *	.005 *	.012	.092	.183	.457
1761	438H SAVN	32270.482	.000	.003	.006	.033	.323	.646	1.614
1762	CO-1 SAVN	19309.636	.008	.003 *	.005 *	.021	.193	.387	.966
1763	438H CO-1	17736.591	.010	.003 *	.005 *	.019 *	.178	.355	.887
1764	MW-1 438N	5735.715	.004	.003 *	.005 *	.010	.058	.116	.288
1765	438P MW-1	14975.016	.004	.003 *	.005 *	.017	.150	.300	.749
1766	FB-1 BH-1	20447.306	.005	.003 *	.005 *	.022	.205	.409	1.023
1767	PV-1 BH-1	9517.533	.005	.003 *	.005 *	.012	.096	.191	.477
1768	FB-1 PV-1	14182.568	.006	.003 *	.005 *	.016	.142	.284	.710
1769	RD-1 HB-1	7387.966	.010	.003 *	.005 *	.011 *	.075	.149	.371
1770	ST30 HB-1	11704.234	.012	.003 *	.005 *	.014 *	.117	.235	.586
1771	FK-1 438P	9119.611	.003	.003 *	.005 *	.012	.092	.183	.457
1772	PV-1 438P	6235.568	.006	.003 *	.005 *	.010 *	.063	.126	.313
1773	FK-1 PV-1	7481.337	.005	.003 *	.005 *	.011	.075	.151	.375
1774	QC-1 SAVN	8327.714	.004	.003 *	.005 *	.012	.084	.168	.417
1775	MT-1 SAVN	7606.669	.012	.003 *	.005 *	.011 *	.077	.153	.382
1776	MT-1 QC-1	7725.193	.008	.003 *	.005 *	.011 *	.078	.156	.387
1777	BH-1 438N	9406.097	.006	.003 *	.005 *	.012	.095	.189	.471
1778	FK-1 438N	8044.337	.004	.003 *	.005 *	.011	.081	.162	.403
1779	BH-1 FK-1	6189.428	.005	.003 *	.005 *	.010	.063	.125	.311
1780	BH-1 CENT	13148.260	.009	.003 *	.005 *	.015 *	.132	.264	.658
1781	PV-1 CENT	13966.791	.008	.003 *	.005 *	.016	.140	.280	.699
1782	PV-1 BH-1	9517.533	.005	.003 *	.005 *	.012	.096	.191	.477

1783	RD-1	QC-1	7719.068	.004	.003	*	.005	*	.011	.078	.156	.387	
1784	QC-1	MT-1	7725.193	.008	.003	*	.005	*	.011	*	.078	.156	.387
1785	RD-1	MT-1	7925.331	.012	.003	*	.005	*	.011	*	.080	.160	.397
1786	HB-1	438G	7198.615	.012	.003	*	.005	*	.011	*	.073	.145	.361
1787	HB-1	438J	5673.353	.011	.003	*	.005	*	.010	*	.058	.115	.285
1788	438G	QC-1	6535.635	.003	.003	*	.005	*	.010		.066	.132	.328
1789	HB-1	QC-1	11115.398	.012	.003	*	.005	*	.014	*	.112	.223	.557
1790	438J	SR-1	6279.054	.000	.003		.005		.010		.064	.127	.315
1791	HB-1	SR-1	11441.346	.010	.003	*	.005	*	.014	*	.115	.230	.573
1792	ST30	SR-1	4514.090	.011	.003	*	.005	*	.009	*	.046	.092	.228
1793	438G	ST30	16820.945	.010	.003	*	.005	*	.019	*	.169	.337	.842
1794	438J	ST30	8227.914	.009	.003	*	.005	*	.011	*	.083	.166	.412
1795	HB-1	ST30	11704.234	.012	.003	*	.005	*	.014	*	.117	.235	.586
1796	QC-1	ST30	16134.625	.011	.003	*	.005	*	.018	*	.162	.323	.807
1797	QC-1	438G	6535.635	.003	.003	*	.005	*	.010		.066	.132	.328
1798	CO-1	438G	13556.170	.010	.003	*	.005	*	.016	*	.136	.272	.678
1799	438G	SAVN	14689.292	.000	.003		.005		.017		.147	.294	.735
1800	QC-1	SAVN	8327.714	.004	.003	*	.005	*	.012		.084	.168	.417
1801	CO-1	QC-1	15659.749	.009	.003	*	.005	*	.018		.157	.314	.784
1802	CO-1	438G	13556.170	.010	.003	*	.005	*	.016	*	.136	.272	.678
1803	WP-1	438M	19595.324	.000	.003		.005		.021		.196	.392	.980
1804	DV-1	438M	12174.163	.000	.003		.005		.015		.122	.244	.609
1805	WP-1	438N	18678.325	.000	.003		.005		.020		.187	.374	.934
1806	DV-1	438N	20940.948	.000	.003		.005		.022		.210	.419	1.047
1807	MW-1	438N	5735.715	.004	.003	*	.005	*	.010		.058	.116	.288
1808	NF-1	FB-1	9016.152	.000	.003		.005		.012		.091	.181	.452
1809	FK-1	FB-1	14517.725	.004	.003	*	.005	*	.017		.146	.291	.727
1810	ML-1	FB-1	13689.756	.005	.003	*	.005	*	.016		.137	.275	.685
1811	MW-1	FB-1	15786.338	.004	.003	*	.005	*	.018		.158	.316	.790
1812	NF-1	BH-1	14238.795	.005	.003	*	.005	*	.016		.143	.285	.713
1813	FK-1	NF-1	8158.804	.004	.003	*	.005	*	.011		.082	.164	.409
1814	ML-1	NF-1	6657.829	.006	.003	*	.005	*	.010	*	.067	.135	.334
1815	MW-1	NF-1	6832.847	.004	.003	*	.005	*	.011		.069	.138	.343
1816	BH-1	FK-1	6189.428	.005	.003	*	.005	*	.010		.063	.125	.311
1817	FK-1	ML-1	13083.743	.007	.003	*	.005	*	.015		.131	.262	.655
1818	WP-1	ML-1	8586.131	.004	.003	*	.005	*	.012		.086	.173	.430
1819	DV-1	ML-1	9913.511	.006	.003	*	.005	*	.013		.100	.199	.497
1820	BH-1	MW-1	13383.255	.007	.003	*	.005	*	.016		.134	.268	.670
1821	FK-1	MW-1	9184.077	.006	.003	*	.005	*	.012	*	.092	.185	.460
1822	ML-1	MW-1	5568.352	.006	.003	*	.005	*	.010	*	.057	.113	.280
1823	DV-1	MW-1	15328.767	.005	.003	*	.005	*	.017		.154	.307	.767
1824	BH-1	438N	9406.097	.006	.003	*	.005	*	.012		.095	.189	.471
1825	438N	CENT	22542.945	.008	.003	*	.005	*	.024		.226	.451	1.128
1826	438P	CENT	20157.688	.007	.003	*	.005	*	.022		.202	.404	1.008
1827	FK-1	CENT	17510.841	.008	.003	*	.005	*	.019		.175	.351	.876
1828	PV-1	CENT	13966.791	.008	.003	*	.005	*	.016		.140	.280	.699
1829	438N	FK-1	8044.337	.004	.003	*	.005	*	.011		.081	.162	.403
1830	438P	FK-1	9119.611	.003	.003	*	.005	*	.012		.092	.183	.457
1831	BH-1	FK-1	6189.428	.005	.003	*	.005	*	.010		.063	.125	.311
1832	PV-1	FK-1	7481.337	.005	.003	*	.005	*	.011		.075	.151	.375
1833	438N	PV-1	15458.296	.005	.003	*	.005	*	.017		.155	.310	.773
1834	438P	PV-1	6235.568	.006	.003	*	.005	*	.010	*	.063	.126	.313
1835	BH-1	PV-1	9517.533	.005	.003	*	.005	*	.012		.096	.191	.477
1836	MW-1	438M	16629.947	.005	.003	*	.005	*	.018		.167	.333	.832
1837	BH-1	FB-1	20447.306	.005	.003	*	.005	*	.022		.205	.409	1.023
1838	438N	CENT	22542.945	.008	.003	*	.005	*	.024		.226	.451	1.128
1839	ML-1	BH-1	18296.452	.008	.003	*	.005	*	.020		.183	.366	.915
1840	WP-1	MW-1	13252.445	.004	.003	*	.005	*	.015		.133	.266	.663
1841	FB-1	438P	7996.887	.000	.003		.005		.011		.081	.161	.401
1842	FB-1	438N	19648.648	.000	.003		.005		.021		.197	.393	.983
1843	NF-1	438N	10853.683	.000	.003		.005		.013		.109	.218	.544
1844	NF-1	FB-1	9016.152	.000	.003		.005		.012		.091	.181	.452
1845	WW-1	438J	13092.850	.000	.003		.005		.015		.131	.263	.655
1846	FB-1	438P	7996.887	.000	.003		.005		.011		.081	.161	.401
1847	SR-1	438P	15682.390	.000	.003		.005		.018		.157	.314	.785
1848	RD-1	SAVN	13770.250	.000	.003		.005		.016		.138	.276	.689

1849	DV-1 WL-1	5872.355	.000	.003	.005	.010	.060	.119	.295
1850	DV-1 0002	7413.265	.000	.003	.005	.011	.075	.150	.372
1851	DH-1 0002	4219.884	.000	.003	.005	.009	.043	.087	.213
1852	BK-1 0002	7137.627	.000	.003	.005	.011	.072	.144	.358
1853	WL-1 0002	5670.883	.000	.003	.005	.010	.058	.115	.285
1854	NF-1 FB-1	9016.152	.000	.003	.005	.012	.091	.181	.452
1855	SR-1 FB-1	8619.196	.000	.003	.005	.012	.087	.174	.432
1856	SR-1 NF-1	17172.226	.000	.003	.005	.019	.172	.344	.859
1857	RD-1 438J	9022.289	.000	.003	.005	.012	.091	.182	.452
1858	SR-1 438J	6279.054	.000	.003	.005	.010	.064	.127	.315
1859	SR-1 438J	6279.054	.000	.003	.005	.010	.064	.127	.315
1860	FB-1 SR-1	8619.196	.000	.003	.005	.012	.087	.174	.432
1861	RD-1 SR-1	11128.316	.000	.003	.005	.014	.112	.223	.557
1862	SR-1 RD-1	11128.316	.000	.003	.005	.014	.112	.223	.557
1863	SR-1 RD-1	11128.316	.000	.003	.005	.014	.112	.223	.557
1864	WW-1 SR-1	11457.495	.000	.003	.005	.014	.115	.230	.574
1865	DV-1 DH-1	5710.790	.000	.003	.005	.010	.058	.116	.287
1866	DH-1 SAVN	14940.426	.000	.003	.005	.017	.150	.299	.748
1867	BK-1 DH-1	10217.126	.000	.003	.005	.013	.103	.205	.512
1868	WW-1 DH-1	7199.985	.000	.003	.005	.011	.073	.145	.361
1869	BK-1 SAVN	7760.450	.000	.003	.005	.011	.078	.156	.389
1870	WW-1 SAVN	14940.850	.000	.003	.005	.017	.150	.299	.748
1871	DH-1 WP-1	10040.243	.000	.003	.005	.013	.101	.202	.503
1872	WP-1 DV-1	9175.947	.000	.003	.005	.012	.092	.185	.460
1873	WL-1 438M	10820.616	.000	.003	.005	.013	.109	.217	.542
1874	DV-1 438M	12174.163	.000	.003	.005	.015	.122	.244	.609
1875	DV-1 WL-1	5872.355	.000	.003	.005	.010	.060	.119	.295
1876	NF-1 WP-1	8946.513	.000	.003	.005	.012	.090	.180	.448
1877	NF-1 DV-1	15054.287	.000	.003	.005	.017	.151	.302	.753
1878	WP-1 DV-1	9175.947	.000	.003	.005	.012	.092	.185	.460
1879	RD-1 438G	9161.378	.000	.003	.005	.012	.092	.184	.459
1880	WW-1 438G	15982.373	.000	.003	.005	.018	.160	.320	.800
1881	WP-1 FB-1	8451.978	.000	.003	.005	.012	.085	.170	.424
1882	WW-1 RD-1	7013.962	.000	.003	.005	.011	.071	.142	.352
1883	WW-1 SR-1	11457.495	.000	.003	.005	.014	.115	.230	.574
1884	RD-1 438G	9161.378	.000	.003	.005	.012	.092	.184	.459

1885
1886
1887
1888

1889 Non-centrality: 4.0000000000000000

1890
1891

GPS V.Factor	Redundancy		Sum	Intern. Reliability (CM)						
				Impact (cm)						
	Blunder		(cm)							
				N	E	H	Radius	Wch		N
				N	E	H	Radius	AvDiag		
				E	H	Radius				
1895										
1896	QC-1 SAVN	.43 .42	.40 1.249	4.1	2.7	.5	4.9		1.2	
	-.7 .1	-1.3	1.5	-.4	.1	-.8	.9		.4	
1897	BK-1 SAVN	.82 .75	.92 2.489	4.6	3.0	.6	5.6		.0	
	.1 .2	-.2	.3	.0	.0	-.1	.1		.8	
1898	BK-1 QC-1	.77 .69	.80 2.258	5.7	3.6	.9	6.8		.1	
	.2 .2	.5	.5	.0	.0	.1	.1		.8	
1899	CO-1 438G	.87 .84	.83 2.539	14.7	11.5	2.8	18.8		.1	
	-.6 .5	-1.2	1.4	-.1	.1	-.2	.2		.8	
1900	438H CO-1	.89 .90	.91 2.699	16.3	14.8	2.4	22.1		1.9	
	.6 -1.3	7.9	8.0	.1	-.1	.8	.8		.9	
1901	FK-1 438N	.94 .94	.95 2.840	9.9	8.1	1.2	12.9		.5	
	-.5 -1.8	-.5	2.0	.0	-.1	.0	.1		.9	
1902	438P FK-1	.95 .95	.97 2.869	10.4	9.5	1.0	14.1		.7	
	3.1 .4	-.7	3.2	.2	.0	.0	.2		1.0	
1903	438H SAVN	.97 .95	.99 2.912	12.4	10.9	2.3	16.7		.2	
	-.6 -.6	1.8	2.0	.0	.0	.1	.1		1.0	

1904	CO-1 SAVN	.78	.77	.82	2.370	12.5	11.1	2.4	16.9	.4
	.1 1.3		2.0	2.4	.0	.2	.4	.5	.8	
1905	438H CO-1	.79	.79	.82	2.397	12.3	11.0	2.3	16.6	.4
	-.8 -2.3		.6	2.5	-.2	-.4	.2	.5	.8	
1906	MW-1 438N	.93	.92	.96	2.809	10.3	8.8	1.8	13.7	3.1
	.3 -4.7		-1.6	5.0	.0	-.2	-.1	.2	.9	
1907	438P MW-1	.97	.96	.98	2.909	14.5	12.8	2.4	19.4	.3
	1.2 2.1		-.1	2.4	.0	.1	.0	.1	1.0	
1908	FB-1 BH-1	.96	.94	.97	2.874	14.2	13.4	.4	19.5	.6
	1.8 3.1		-.8	3.6	.1	.1	.0	.1	1.0	
1909	PV-1 BH-1	.95	.94	.97	2.858	14.2	13.1	1.4	19.4	.6
	1.5 2.7		-2.5	4.0	.1	.1	-.1	.2	1.0	
1910	FB-1 PV-1	.91	.88	.95	2.744	10.5	10.3	.7	14.7	.0
	-.4 -.1		-.2	.5	.0	.0	.0	.1	.9	
1911	RD-1 HB-1	.84	.84	.81	2.494	16.4	12.5	1.6	20.7	.2
	-1.7 -1.0		1.4	2.4	-.3	-.2	.2	.4	.8	
1912	ST30 HB-1	.94	.90	.87	2.706	27.5	20.1	1.0	34.1	.4
	-1.8 2.4		2.3	3.8	-.1	.3	.2	.4	.9	
1913	FK-1 438P	.95	.94	.95	2.833	10.1	7.7	.8	12.7	.7
	-2.6 -1.4		.1	2.9	-.1	-.1	.0	.2	.9	
1914	PV-1 438P	.90	.89	.88	2.669	5.9	8.3	6.6	12.2	1.3
	-3.7 .0		-.8	3.8	-.4	.0	-.1	.4	.9	
1915	FK-1 PV-1	.93	.92	.92	2.773	9.7	7.3	.8	12.2	.7
	1.3 -1.4		-.1	1.9	.1	-.1	.0	.1	.9	
1916	QC-1 SAVN	.97	.97	.98	2.924	11.3	10.0	.9	15.1	.1
	1.2 .3		-.1	1.2	.0	.0	.0	.0	1.0	
1917	MT-1 SAVN	.76	.71	.82	2.286	14.1	10.5	2.5	17.8	.1
	.9 -.9		.1	1.3	.2	-.1	.0	.3	.8	
1918	MT-1 QC-1	.72	.64	.71	2.068	13.4	9.1	2.2	16.4	.5
	-1.2 -1.9		-.5	2.3	-.4	-.6	-.1	.7	.7	
1919	BH-1 438N	.95	.94	.97	2.857	12.8	11.5	.7	17.2	2.0
	-.8 -5.2		-.4	5.2	-.1	-.2	.0	.2	1.0	
1920	FK-1 438N	.96	.95	.95	2.852	11.1	8.0	.8	13.7	1.4
	-.5 -2.3		-1.9	3.0	.0	-.1	-.1	.2	1.0	
1921	BH-1 FK-1	.90	.90	.92	2.719	9.0	6.8	.7	11.3	.9
	-1.1 -2.0		.9	2.5	-.1	-.2	.1	.2	.9	
1922	BH-1 CENT	.92	.87	.92	2.717	12.4	10.3	3.2	16.4	3.1
	-2.8 -3.0		5.7	7.0	-.4	-.3	.7	.9	.9	
1923	PV-1 CENT	.96	.95	.97	2.876	17.8	15.1	4.6	23.7	1.1
	-2.6 -2.1		4.9	5.9	-.2	-.1	.3	.3	1.0	
1924	PV-1 BH-1	.97	.94	.97	2.877	16.4	13.0	4.4	21.4	.1
	1.0 -.5		-.4	1.2	.0	.0	.0	.1	1.0	
1925	RD-1 QC-1	.84	.81	.88	2.537	8.9	5.6	.9	10.5	2.3
	-1.6 1.1		-4.2	4.6	-.2	.2	-.7	.8	.8	
1926	QC-1 MT-1	.76	.62	.64	2.022	13.6	9.2	.7	16.4	.6
	.0 -2.1		.6	2.2	.1	-.7	.1	.7	.7	
1927	RD-1 MT-1	.85	.85	.80	2.496	19.1	11.6	1.9	22.4	.1
	-1.3 -.4		-1.5	2.0	-.2	-.1	-.2	.3	.8	
1928	HB-1 438G	.77	.77	.80	2.343	13.2	11.5	1.9	17.6	.5
	1.1 2.6		-.6	2.9	.3	.5	-.2	.6	.8	
1929	HB-1 438J	.76	.75	.80	2.303	12.9	11.3	1.9	17.2	.6
	-3.2 -.3		1.7	3.6	-.8	-.1	.4	.9	.8	
1930	438G QC-1	.93	.91	.97	2.811	10.4	8.6	.6	13.5	.6
	1.1 -1.7		.7	2.1	.1	-.1	.1	.1	.9	
1931	HB-1 QC-1	.80	.79	.82	2.407	14.7	12.2	2.1	19.2	.3
	2.7 .8		.3	2.8	.6	.2	.0	.6	.8	
1932	438J SR-1	.95	.94	.99	2.882	10.3	9.0	1.7	13.8	.8
	.7 -2.3		-1.0	2.6	.0	.0	.0	.0	1.0	
1933	HB-1 SR-1	.86	.86	.87	2.602	17.1	14.1	2.2	22.3	.5
	-1.7 -2.9		.3	3.4	-.2	-.4	.0	.4	.9	
1934	ST30 SR-1	.66	.61	.69	1.961	11.7	9.6	1.6	15.3	.4
	.1 -1.7		-.4	1.8	.0	-.5	-.1	.6	.7	
1935	438G ST30	.86	.85	.87	2.575	15.5	13.2	1.5	20.4	.1
	-.1 1.3		.5	1.4	.0	.2	.1	.2	.9	
1936	438J ST30	.73	.68	.73	2.142	12.2	10.0	1.7	15.8	.6
	.8 -2.1		-.4	2.3	.2	-.6	-.1	.6	.7	

1937	HB-1	ST30	.91	.89	.87	2.666	24.7	18.2	3.7	30.9	.1
	-1.9	-1.3		-.1		2.3	-.2	-.2	.0	.2	.9
1938	QC-1	ST30	.87	.79	.81	2.465	16.0	12.6	.1	20.3	.1
	-.9	1.0		.3		1.4	-.2	.2	.0	.3	.8
1939	QC-1	438G	.95	.94	.98	2.864	11.9	10.3	2.0	15.8	.6
	-1.7	1.9		1.0		2.7	-.1	.0	.0	.1	1.0
1940	CO-1	438G	.86	.86	.86	2.578	14.6	12.3	2.5	19.3	1.8
	-2.9	-5.0		-.2		5.8	-.4	-.7	.0	.8	.9
1941	438G	SAVN	.99	.99	1.00	2.978	25.5	18.5	3.1	31.7	.5
	4.4	-2.0		3.1		5.8	.0	.0	.0	.0	1.0
1942	QC-1	SAVN	.91	.89	.92	2.726	4.1	5.6	4.5	8.3	1.6
	2.1	.1		2.1		3.0	.2	.0	.2	.3	.9
1943	CO-1	QC-1	.83	.83	.86	2.521	14.3	12.6	2.5	19.2	.3
	.1	1.4		2.0		2.4	.0	.2	.3	.4	.8
1944	CO-1	438G	.94	.92	.89	2.746	20.1	15.1	1.0	25.2	1.7
	3.8	-3.1		6.9		8.4	.4	-.3	.5	.7	.9
1945	WP-1	438M	.96	.92	.98	2.862	12.1	8.5	2.6	15.0	.4
	1.4	.1		2.3		2.7	.1	.0	.1	.1	1.0
1946	DV-1	438M	.99	.99	1.00	2.973	26.6	18.4	4.9	32.7	.6
	4.5	-2.7		-.5		5.3	.0	.0	.0	.0	1.0
1947	WP-1	438N	.92	.91	.98	2.802	10.0	7.3	1.1	12.4	2.0
	1.8	-2.7		2.0		3.8	.1	-.1	.2	.2	.9
1948	DV-1	438N	.97	.94	.99	2.898	13.8	9.6	2.9	17.1	1.0
	2.3	-2.6		1.2		3.7	.1	.0	.1	.1	1.0
1949	MW-1	438N	.95	.93	.98	2.863	6.5	13.0	7.3	16.2	1.6
	.5	-4.8		-1.3		5.0	.0	-.1	.0	.1	1.0
1950	NF-1	FB-1	.88	.86	.97	2.715	6.5	5.0	.2	8.2	8.0
	-3.5	3.0		-1.8		4.9	-.4	.1	-.3	.5	.9
1951	FK-1	FB-1	.98	.91	.91	2.795	8.4	11.4	1.9	14.3	3.4
	1.9	6.6		.5		6.9	.3	.2	-.1	.3	.9
1952	ML-1	FB-1	.93	.90	.97	2.803	6.8	13.4	7.7	16.9	1.6
	-2.6	4.1		-1.7		5.2	-.1	.1	-.2	.3	.9
1953	MW-1	FB-1	.86	.86	.90	2.620	8.5	6.5	1.0	10.8	2.3
	3.8	-.5		-1.5		4.1	.5	.0	-.2	.6	.9
1954	NF-1	BH-1	1.00	.99	.99	2.981	47.7	29.7	5.3	56.5	.2
	-2.6	-3.7		5.0		6.8	.0	.0	.0	.0	1.0
1955	FK-1	NF-1	.82	.81	.81	2.443	7.2	4.9	.5	8.7	8.4
	4.6	3.9		-.4		6.1	.9	.7	-.1	1.1	.8
1956	ML-1	NF-1	.70	.66	.71	2.071	7.0	5.0	.4	8.7	.5
	.8	1.1		-.8		1.6	.2	.3	-.2	.5	.7
1957	MW-1	NF-1	.73	.67	.75	2.150	6.2	4.6	.3	7.8	3.3
	1.7	2.6		-1.0		3.2	.5	.7	-.3	.9	.7
1958	BH-1	FK-1	.66	.66	.54	1.858	3.5	4.5	3.9	7.0	3.9
	1.9	2.4		-.8		3.1	.6	1.0	-.2	1.2	.6
1959	FK-1	ML-1	.88	.81	.80	2.497	10.2	6.4	1.9	12.2	2.1
	4.8	1.4		.3		5.0	.7	.3	-.1	.8	.8
1960	WP-1	ML-1	.87	.83	.89	2.584	11.0	7.6	1.5	13.5	2.3
	-1.4	-2.9		-2.2		3.9	-.2	-.3	-.3	.5	.9
1961	DV-1	ML-1	.88	.84	.88	2.597	11.6	7.5	1.8	13.9	1.8
	-3.7	-.2		3.0		4.7	-.6	-.1	.5	.8	.9
1962	BH-1	MW-1	.87	.78	.77	2.415	9.7	6.0	2.0	11.5	4.7
	3.7	1.1		-4.9		6.2	.9	.2	-1.1	1.4	.8
1963	FK-1	MW-1	.86	.84	.80	2.503	8.9	5.8	1.2	10.7	2.7
	4.7	.8		2.0		5.1	.7	.1	.3	.7	.8
1964	ML-1	MW-1	.53	.50	.48	1.514	6.6	4.6	.6	8.1	2.1
	-1.3	-2.1		1.1		2.7	-.6	-1.0	.5	1.3	.5
1965	DV-1	MW-1	.94	.93	.95	2.827	15.1	10.4	2.0	18.4	.2
	.4	1.6		-.6		1.7	.0	.1	.0	.1	.9
1966	BH-1	438N	.97	.95	.96	2.880	15.1	12.1	.7	19.3	1.5
	2.1	-3.6		-1.3		4.3	.1	-.1	.0	.2	1.0
1967	438N	CENT	.90	.88	.70	2.468	8.6	5.8	1.3	10.5	1.0
	2.1	1.2		-.9		2.6	.2	.2	-.1	.3	.8
1968	438P	CENT	.93	.86	.83	2.616	8.8	7.2	.3	11.4	.8
	1.0	1.8		.6		2.1	.1	.3	.1	.3	.9
1969	FK-1	CENT	.78	.74	.54	2.051	7.6	5.3	1.2	9.3	1.0
	1.7	-.6		-1.2		2.2	.5	-.4	-.4	.7	.7

1970	PV-1 CENT	.92	.88	.89	2.694	12.5	9.8	.1	15.9	4.1
	-8.7	-.8	1.4	8.9	-.8	.0	.0	.8	.9	
1971	438N FK-1	.94	.97	.92	2.826	8.9	8.5	2.5	12.6	2.3
	-2.6	3.7	.0	4.5	-.1	.1	.0	.2	.9	
1972	438P FK-1	.94	.94	.94	2.824	9.8	7.6	.7	12.4	2.5
	4.2	-1.1	-2.0	4.8	.2	-.1	-.1	.3	.9	
1973	BH-1 FK-1	.90	.87	.91	2.672	8.4	6.5	.1	10.6	.1
	1.0	.2	-.3	1.1	.1	.0	.0	.1	.9	
1974	PV-1 FK-1	.44	.36	.36	1.157	5.3	4.0	.5	6.6	4.7
	3.7	-.2	-.1	3.8	2.2	-.1	-.2	2.2	.4	
1975	438N PV-1	.94	.93	.97	2.841	11.5	12.1	2.0	16.8	3.9
	5.9	-2.0	-5.5	8.3	.3	.0	-.3	.5	.9	
1976	438P PV-1	.96	.94	.95	2.852	14.0	11.2	.6	18.0	.4
	-.4	-2.2	-.1	2.2	.0	-.1	.0	.1	1.0	
1977	BH-1 PV-1	.92	.86	.88	2.654	11.0	8.1	.8	13.7	1.8
	-1.4	1.1	3.8	4.3	-.1	.2	.4	.4	.9	
1978	MW-1 438M	.86	.83	.85	2.537	7.7	5.4	1.2	9.4	1.1
	1.5	-1.2	-.4	2.0	.2	-.2	-.1	.3	.8	
1979	BH-1 FB-1	.84	.80	.88	2.518	8.2	6.8	.3	10.6	.8
	-2.0	-1.4	.7	2.6	-.4	-.2	.1	.4	.8	
1980	438N CENT	.99	.99	.92	2.907	19.8	25.2	9.5	33.5	.6
	1.7	-2.7	2.0	3.8	.1	.0	.1	.2	1.0	
1981	ML-1 BH-1	.88	.84	.87	2.583	11.1	8.4	.3	13.9	1.3
	4.2	.7	.5	4.3	.6	.1	.2	.7	.9	
1982	WP-1 MW-1	.98	.97	.99	2.934	21.3	19.9	5.2	29.6	8.7
	10.7	-2.9	-17.5	20.7	.3	.1	-.5	.6	1.0	
1983	FB-1 438P	.98	.97	1.00	2.946	12.9	12.7	1.0	18.1	.6
	-2.1	-1.9	2.4	3.8	-.1	.0	.1	.1	1.0	
1984	FB-1 438N	.98	.98	1.00	2.958	15.0	13.3	2.7	20.2	.3
	-.6	-2.5	.4	2.6	.0	.0	.0	.0	1.0	
1985	NF-1 438N	.98	.98	1.00	2.954	14.9	13.2	2.9	20.1	.9
	-1.3	-3.9	-.6	4.2	.0	.0	.0	.0	1.0	
1986	NF-1 FB-1	.98	.98	1.00	2.956	15.5	12.7	3.2	20.3	.0
	-.4	.6	.3	.8	.0	.0	.0	.0	1.0	
1987	WW-1 438J	.97	.97	.99	2.934	19.8	15.4	2.5	25.2	.3
	-2.0	1.7	-1.8	3.2	.0	.0	-.1	.1	1.0	
1988	FB-1 438P	.97	.95	.99	2.907	3.8	12.9	4.1	14.1	.7
	-1.7	-2.4	.9	3.0	-.1	-.1	.0	.1	1.0	
1989	SR-1 438P	.98	.97	.99	2.935	14.1	12.1	.3	18.6	.8
	-2.1	-3.3	1.7	4.2	-.1	.0	.0	.1	1.0	
1990	RD-1 SAVN	.97	.94	.99	2.901	14.6	11.9	3.4	19.2	.6
	1.5	2.2	2.5	3.7	.1	.0	.1	.1	1.0	
1991	DV-1 WL-1	.87	.81	.97	2.648	10.4	8.8	.0	13.6	.1
	-.8	-.1	.8	1.2	-.1	.0	.1	.1	.9	
1992	DV-1 0002	.94	.93	.99	2.859	11.1	9.5	1.9	14.7	.4
	-.1	.9	-2.3	2.5	.0	.0	-.2	.2	1.0	
1993	DH-1 0002	.89	.87	.97	2.732	9.8	7.7	.4	12.5	.2
	.8	.3	1.3	1.6	.1	.0	.2	.2	.9	
1994	BK-1 0002	.93	.89	.98	2.809	9.8	8.1	2.2	12.9	.0
	.1	-.1	-.4	.4	.0	.0	.0	.0	.9	
1995	WL-1 0002	.87	.86	.97	2.707	11.7	9.4	.9	15.0	.1
	.7	.6	.4	1.0	.1	.0	.0	.1	.9	
1996	NF-1 FB-1	.94	.94	.99	2.870	8.7	8.4	.8	12.1	.2
	-.4	-.9	1.1	1.5	.0	.0	.1	.1	1.0	
1997	SR-1 FB-1	.93	.93	.99	2.856	10.9	10.9	1.3	15.5	.9
	-1.1	-1.4	3.4	3.8	-.1	-.1	.2	.3	1.0	
1998	SR-1 NF-1	.93	.93	.99	2.853	11.4	10.5	1.0	15.5	.0
	.8	.2	-.2	.9	.1	.0	.0	.1	1.0	
1999	RD-1 438J	.96	.94	.99	2.889	12.7	10.7	.1	16.6	.2
	-1.5	-.2	1.8	2.3	-.1	.0	.1	.1	1.0	
2000	SR-1 438J	.96	.95	.99	2.897	11.1	9.5	2.1	14.8	.5
	-.4	2.1	-.3	2.2	.0	.0	.0	.0	1.0	
2001	SR-1 438J	.96	.94	.99	2.898	11.0	10.5	.0	15.2	.1
	.8	.8	.4	1.2	.0	.0	.0	.1	1.0	
2002	FB-1 SR-1	.97	.94	.99	2.901	14.0	11.3	3.3	18.3	.4
	-1.5	1.7	-2.0	3.0	.0	.0	-.1	.1	1.0	

2003	RD-1 SR-1	.94	.91	.98	2.829	11.2	9.4	.0	14.6	.4
	-1.4	-.9	2.3	2.9	-.1	-.1	.2	.2	.9	
2004	SR-1 RD-1	.98	.98	.99	2.952	22.0	15.1	1.0	26.7	.0
	.3	.5	.4	.7	.0	.0	.0	.0	1.0	
2005	SR-1 RD-1	.95	.90	.98	2.830	11.7	9.4	1.1	15.1	1.5
	-.4	.5	-4.7	4.7	-.1	.0	-.3	.4	.9	
2006	WW-1 SR-1	.86	.84	.97	2.673	9.3	7.9	.7	12.2	.1
	.2	.1	1.1	1.1	.0	.0	.2	.2	.9	
2007	DV-1 DH-1	.86	.87	.97	2.705	10.7	9.1	1.1	14.1	.6
	1.1	2.2	.3	2.5	.2	.1	.0	.2	.9	
2008	DH-1 SAVN	.93	.91	.98	2.828	12.8	11.3	.4	17.1	.1
	-.8	.4	-.2	.9	-.1	.0	.0	.1	.9	
2009	BK-1 DH-1	.90	.87	.98	2.750	11.2	9.7	.5	14.8	.6
	-.6	-1.8	-1.7	2.5	-.1	.0	-.2	.2	.9	
2010	WW-1 DH-1	1.00	.76	.97	2.732	7.0	11.2	9.2	16.1	.6
	-.4	-2.4	1.0	2.7	.0	-.1	.3	.4	.9	
2011	BK-1 SAVN	1.00	.92	.99	2.912	5.7	8.6	6.6	12.3	.3
	.4	1.1	.6	1.4	.0	.0	.0	.0	1.0	
2012	WW-1 SAVN	.89	.87	.98	2.737	10.7	9.9	.9	14.6	.5
	1.7	1.9	-1.1	2.8	.2	.1	-.1	.3	.9	
2013	DH-1 WP-1	.88	.86	.97	2.711	11.2	8.5	1.3	14.1	1.1
	-.5	-2.0	-2.3	3.0	-.1	.0	-.2	.3	.9	
2014	WP-1 DV-1	.94	.91	.98	2.833	12.4	10.9	.1	16.5	.6
	1.3	2.5	.5	2.8	.1	.1	.0	.1	.9	
2015	WL-1 438M	.92	.90	.98	2.797	13.8	11.1	.2	17.8	.6
	2.0	-1.7	-1.1	2.9	.1	.0	.0	.1	.9	
2016	DV-1 438M	.97	.97	1.00	2.944	16.7	15.8	2.1	23.1	.5
	2.7	-2.8	.8	4.0	.1	.0	.0	.1	1.0	
2017	DV-1 WL-1	.88	.86	.97	2.709	11.1	9.4	.7	14.6	.7
	2.8	-.7	-1.2	3.1	.3	.1	-.1	.4	.9	
2018	NF-1 WP-1	.95	.94	.99	2.880	13.4	12.0	.3	18.0	1.1
	1.4	3.5	1.4	4.0	.1	.0	.1	.1	1.0	
2019	NF-1 DV-1	.97	.96	.99	2.923	16.5	15.7	1.7	22.9	.4
	2.8	1.3	1.7	3.5	.1	.0	.1	.1	1.0	
2020	WP-1 DV-1	.94	.92	.98	2.846	13.0	10.5	1.8	16.8	.6
	3.1	-1.0	.5	3.3	.2	.0	.0	.2	.9	
2021	RD-1 438G	.97	.94	.99	2.904	14.1	12.1	1.6	18.6	.5
	1.5	1.4	-3.6	4.1	.0	.0	-.1	.1	1.0	
2022	WW-1 438G	.96	.95	.99	2.896	15.3	14.1	.7	20.8	.3
	-1.3	-2.3	.3	2.7	-.1	.0	.0	.1	1.0	
2023	WP-1 FB-1	.92	.91	.98	2.809	11.0	8.8	1.5	14.2	1.0
	-2.2	-1.3	3.0	3.9	-.2	-.1	.3	.4	.9	
2024	WW-1 RD-1	.89	.87	.98	2.747	11.2	10.1	.7	15.1	.2
	-.6	1.3	.0	1.5	.0	.0	.0	.1	.9	
2025	WW-1 SR-1	.94	.94	.99	2.865	13.8	11.8	1.3	18.2	.1
	.0	-.5	-1.0	1.1	.0	.0	-.1	.1	1.0	
2026	RD-1 438G	.96	.95	.99	2.900	13.3	10.8	1.1	17.2	.1
	-.5	.5	-1.1	1.4	.0	.0	-.1	.1	1.0	

2027
2028 Sum of Redundancy numbers: 350.000
2029

2030
2031
2032 Variance Component Estimation

2033
2034 GPS Vectors..... 1.084861527127888
2035

2036 Totals:
2037 VPV 379.701534493829300
2038 DF 349.999999999141400
2039

2040
2041 OBSERVATION STATISTICS
2042
2043 Order Name Name Length SigmR Ratio Tau V(N) V(E) V(H) V"(N) V"(E) V"(H) Sigma Sgm"
R_Num IntN IntE IntH IntrR Var V(R) V"(R) |V|" BldN BldE BldH BldR

	ExtN	ExtE	ExtH	ExtR	Name	C								
2044														
2045	1	QC-1	SAVN	8327	.008	1.0	.003	-.001	.006	.38	-.13	.75	.004	.5
	1.249	.04	.03	.01	.05	1.1	.007	.848	1.90	-.01	.00	-.01		
	.01	.00	.00	-.01	.01		8							
2046	2	BK-1	SAVN	7760	.012	1.0	-.001	-.002	.002	-.08	-.17	.17	.000	.0
	2.489	.05	.03	.01	.06	.0	.003	.250	.89	.00	.00	.00		
	.00	.00	.00	.00	.00		8							
2047	3	BK-1	QC-1	14263	.015	1.0	-.002	-.002	-.004	-.13	-.13	-.27	.003	.2
	2.258	.06	.04	.01	.07	.3	.005	.327	1.41	.00	.00	.01		
	.01	.00	.00	.00	.00		8							
2048	4	CO-1	438G	13556	.043	1.0	.006	-.004	.010	.14	-.09	.23	.010	.2
	2.539	.15	.12	.03	.19	.3	.012	.287	1.39	-.01	.01	-.01		
	.01	.00	.00	.00	.00		8							
2049	5	438H	CO-1	17736	.052	1.0	-.005	.011	-.071	-.10	.21	-1.37	.010	.2
	2.699	.16	.15	.02	.22	1.4	.072	1.385	5.88	.01	-.01	.08		
	.08	.00	.00	.01	.01		8							
2050	6	FK-1	438N	8044	.031	1.0	.004	.018	.005	.13	.58	.16	.004	.1
	2.840	.10	.08	.01	.13	.7	.019	.616	.27	-.01	-.02	-.01		
	.02	.00	.00	.00	.00		8							
2051	7	438P	FK-1	9119	.034	1.0	-.030	-.004	.007	-.88	-.12	.21	.003	.1
	2.869	.10	.10	.01	.14	.8	.031	.914	.23	.03	.00	-.01		
	.03	.00	.00	.00	.00		8							
2052	8	438H	SAVN	32270	.041	1.0	.006	.006	-.017	.15	.15	-.41	.000	.0
	2.912	.12	.11	.02	.17	.4	.019	.463	2.00	-.01	-.01	.02		
	.02	.00	.00	.00	.00		8							
2053	9	CO-1	SAVN	19309	.037	1.0	-.001	-.011	-.016	-.03	-.30	-.43	.008	.2
	2.370	.13	.11	.02	.17	.6	.019	.525	1.45	.00	.01	.02		
	.02	.00	.00	.00	.01		8							
2054	10	438H	CO-1	17736	.037	1.0	.006	.019	-.005	.16	.51	-.14	.010	.3
	2.397	.12	.11	.02	.17	.6	.021	.555	.25	-.01	-.02	.01		
	.03	.00	.00	.00	.01		8							
2055	11	MW-1	438N	5735	.033	1.0	-.003	.045	.015	-.09	1.36	.45	.004	.1
	2.809	.10	.09	.02	.14	1.8	.048	1.440	.33	.00	-.05	-.02		
	.05	.00	.00	.00	.00		8							
2056	12	438P	MW-1	14975	.048	1.0	-.011	-.021	.001	-.23	-.44	.02	.004	.1
	2.909	.14	.13	.02	.19	.5	.024	.494	.04	.01	.02	.00		
	.02	.00	.00	.00	.00		8							
2057	13	FB-1	BH-1	20447	.048	1.0	-.017	-.030	.008	-.35	-.63	.17	.005	.1
	2.874	.14	.13	.00	.20	.8	.035	.737	.23	.02	.03	-.01		
	.04	.00	.00	.00	.00		8							
2058	14	PV-1	BH-1	9517	.047	1.0	-.014	-.027	.023	-.30	-.57	.49	.005	.1
	2.858	.14	.13	.01	.19	.8	.038	.811	.76	.01	.03	-.03		
	.04	.00	.00	.00	.00		8							
2059	15	FB-1	PV-1	14182	.035	1.0	.004	.001	.002	.11	.03	.06	.006	.2
	2.744	.11	.10	.01	.15	.0	.005	.131	.49	.00	.00	.00		
	.01	.00	.00	.00	.00		8							
2060	16	RD-1	HB-1	7387	.047	1.0	.014	.008	-.012	.30	.17	-.26	.010	.2
	2.494	.16	.13	.02	.21	.4	.020	.428	.74	-.02	-.01	.01		
	.02	.00	.00	.00	.00		8							
2061	17	ST30	HB-1	11704	.082	1.0	.016	-.021	-.021	.20	-.26	-.26	.012	.1
	2.706	.28	.20	.01	.34	.6	.034	.411	.80	-.02	.02	.02		
	.04	.00	.00	.00	.00		8							
2062	18	FK-1	438P	9119	.031	1.0	.024	.013	-.001	.77	.42	-.03	.003	.1
	2.833	.10	.08	.01	.13	.8	.027	.881	.04	-.03	-.01	.00		
	.03	.00	.00	.00	.00		8							
2063	19	PV-1	438P	6235	.029	1.0	.034	.000	.007	1.17	.00	.24	.006	.2
	2.669	.06	.08	.07	.12	1.1	.035	1.197	.21	-.04	.00	-.01		
	.04	.00	.00	.00	.00		8							
2064	20	FK-1	PV-1	7481	.029	1.0	-.012	.013	.001	-.41	.45	.03	.005	.2
	2.773	.10	.07	.01	.12	.8	.018	.611	.06	.01	-.01	.00		
	.02	.00	.00	.00	.00		8							
2065	21	QC-1	SAVN	8327	.037	1.0	-.012	-.003	.001	-.32	-.08	.03	.004	.1
	2.924	.11	.10	.01	.15	.3	.012	.335	.08	.01	.00	.00		
	.01	.00	.00	.00	.00		8							
2066	22	MT-1	SAVN	7606	.039	1.0	-.007	.007	-.001	-.18	.18	-.03	.012	.3

			2.286	.14	.11	.03	.18	.3	.010	.255	.10	.01	-.01	.00	
			.01	.00	.00	.00	.00		8						
2067	23	MT-1 QC-1	7725	.034	1.0	.008	.014	.004	.24	.41	.12	.008	.2		
			2.068	.13	.09	.02	.16	.7	.017	.489	.25	-.01	-.02	-.01	
			.02	.00	-.01	.00	.01		8						
2068	24	BH-1 438N	9406	.042	1.0	.007	.050	.005	.17	1.19	.12	.006	.1		
			2.857	.13	.12	.01	.17	1.4	.051	1.208	.10	-.01	-.05	.00	
			.05	.00	.00	.00	.00		8						
2069	25	FK-1 438N	8044	.033	1.0	.005	.022	.018	.15	.67	.55	.004	.1		
			2.852	.11	.08	.01	.14	1.2	.029	.875	.80	-.01	-.02	-.02	
			.03	.00	.00	.00	.00		8						
2070	26	BH-1 FK-1	6189	.027	1.0	.010	.019	-.007	.37	.70	-.26	.005	.2		
			2.719	.09	.07	.01	.11	.9	.023	.836	.33	-.01	-.02	.01	
			.03	.00	.00	.00	.00		8						
2071	27	BH-1 CENT	13148	.039	1.0	.023	.027	-.050	.59	.69	-1.28	.009	.2		
			2.717	.12	.10	.03	.16	1.8	.061	1.572	1.41	-.03	-.03	.06	
			.07	.00	.00	.01	.01		8						
2072	28	PV-1 CENT	13966	.058	1.0	.024	.021	-.046	.41	.36	-.79	.008	.1		
			2.876	.18	.15	.05	.24	1.0	.056	.965	1.44	-.03	-.02	.05	
			.06	.00	.00	.00	.00		8						
2073	29	PV-1 BH-1	9517	.053	1.0	-.009	.005	.004	-.17	.09	.08	.005	.1		
			2.877	.16	.13	.04	.21	.3	.011	.208	.39	.01	-.01	.00	
			.01	.00	.00	.00	.00		8						
2074	30	RD-1 QC-1	7719	.024	1.0	.014	-.009	.035	.58	-.38	1.46	.004	.2		
			2.537	.09	.06	.01	.11	1.5	.039	1.615	2.10	-.02	.01	-.04	
			.05	.00	.00	-.01	.01		8						
2075	31	QC-1 MT-1	7725	.034	1.0	.001	.014	-.005	.03	.41	-.15	.008	.2		
			2.022	.14	.09	.01	.16	.8	.015	.438	.36	.00	-.02	.01	
			.02	.00	-.01	.00	.01		8						
2076	32	RD-1 MT-1	7925	.051	1.0	.011	.003	.013	.22	.06	.25	.012	.2		
			2.496	.19	.12	.02	.22	.3	.017	.339	1.14	-.01	.00	-.01	
			.02	.00	.00	.00	.00		8						
2077	33	HB-1 438G	7198	.039	1.0	-.008	-.021	.004	-.21	-.54	.10	.012	.3		
			2.343	.13	.12	.02	.18	.7	.023	.585	.18	.01	.03	-.01	
			.03	.00	.01	.00	.01		8						
2078	34	HB-1 438J	5673	.038	1.0	.024	.002	-.013	.63	.05	-.34	.011	.3		
			2.303	.13	.11	.02	.17	.8	.027	.720	.54	-.03	.00	.02	.04
			-.01	.00	.00	.01		8							
2079	35	438G QC-1	6535	.033	1.0	-.010	.016	-.006	-.30	.48	-.18	.003	.1		
			2.811	.10	.09	.01	.14	.8	.020	.600	.32	.01	-.02	.01	
			.02	.00	.00	.00	.00		8						
2080	36	HB-1 QC-1	11115	.043	1.0	-.021	-.006	-.003	-.49	-.14	-.07	.012	.3		
			2.407	.15	.12	.02	.19	.5	.022	.513	.14	.03	.01	.00	
			.03	.01	.00	.00	.01		8						
2081	37	438J SR-1	6279	.034	1.0	-.007	.023	.010	-.21	.68	.29	.000	.0		
			2.882	.10	.09	.02	.14	.9	.026	.766	.42	.01	-.02	-.01	
			.03	.00	.00	.00	.00		8						
2082	38	HB-1 SR-1	11441	.052	1.0	.015	.026	-.002	.29	.50	-.04	.010	.2		
			2.602	.17	.14	.02	.22	.7	.030	.579	.07	-.02	-.03	.00	
			.03	.00	.00	.00	.00		8						
2083	39	ST30 SR-1	4514	.031	1.0	-.001	.012	.003	-.03	.39	.10	.011	.4		
			1.961	.12	.10	.02	.15	.6	.012	.400	.25	.00	-.02	.00	
			.02	.00	-.01	.00	.01		8						
2084	40	438G ST30	16820	.047	1.0	.001	-.011	-.005	.02	-.23	-.11	.010	.2		
			2.575	.16	.13	.01	.20	.3	.012	.258	.45	.00	.01	.01	
			.01	.00	.00	.00	.00		8						
2085	41	438J ST30	8227	.033	1.0	-.006	.015	.003	-.18	.45	.09	.009	.3		
			2.142	.12	.10	.02	.16	.8	.016	.498	.19	.01	-.02	.00	
			.02	.00	-.01	.00	.01		8						
2086	42	HB-1 ST30	11704	.073	1.0	.017	.011	.001	.23	.15	.01	.012	.2		
			2.666	.25	.18	.04	.31	.3	.020	.278	.05	-.02	-.01	.00	
			.02	.00	.00	.00	.00		8						
2087	43	QC-1 ST30	16134	.046	1.0	.007	-.008	-.003	.15	-.17	-.07	.011	.2		
			2.465	.16	.13	.00	.20	.3	.011	.240	.28	-.01	.01	.00	
			.01	.00	.00	.00	.00		8						
2088	44	QC-1 438G	6535	.039	1.0	.016	-.018	-.010	.41	-.46	-.26	.003	.1		

			2.864	.12	.10	.02	.16	.8	.026	.669	.42	-.02	.02	.01	
			.03	.00	.00	.00	.00		8						
2089	45	CO-1 438G	13556	.045	1.0	.025	.043	.002	.56	.96	.04	.010	.2		
			2.578	.15	.12	.03	.19	1.3	.050	1.106	.04	-.03	-.05	.00	
			.06	.00	-.01	.00	.01		8						
2090	46	438G SAVN	14689	.079	1.0	-.044	.020	-.031	-.56	.25	-.39	.000	.0		
			2.978	.26	.19	.03	.32	.7	.057	.727	.64	.04	-.02	.03	
			.06	.00	.00	.00	.00		8						
2091	47	QC-1 SAVN	8327	.020	1.0	-.019	-.001	-.019	-.95	-.05	-.95	.004	.2		
			2.726	.04	.06	.04	.08	1.3	.027	1.344	1.00	.02	.00	.02	
			.03	.00	.00	.00	.00		8						
2092	48	CO-1 QC-1	15659	.044	1.0	-.001	-.012	-.016	-.02	-.27	-.36	.009	.2		
			2.521	.14	.13	.03	.19	.5	.020	.455	1.33	.00	.01	.02	
			.02	.00	.00	.00	.00		8						
2093	49	CO-1 438G	13556	.060	1.0	-.034	.028	-.064	-.57	.47	-1.07	.010	.2		
			2.746	.20	.15	.01	.25	1.3	.078	1.295	1.45	.04	-.03	.07	
			.08	.00	.00	.01	.01		8						
2094	50	WP-1 438M	19595	.037	1.0	-.014	-.001	-.022	-.38	-.03	-.59	.000	.0		
			2.862	.12	.09	.03	.15	.6	.026	.705	1.57	.01	.00	.02	
			.03	.00	.00	.00	.00		8						
2095	51	DV-1 438M	12174	.081	1.0	-.045	.027	.005	-.56	.33	.06	.000	.0		
			2.973	.27	.18	.05	.33	.8	.053	.651	.10	.04	-.03	-.01	
			.05	.00	.00	.00	.00		8						
2096	52	WP-1 438N	18678	.030	1.0	-.017	.026	-.018	-.57	.87	-.60	.000	.0		
			2.802	.10	.07	.01	.12	1.4	.036	1.197	.58	.02	-.03	.02	
			.04	.00	.00	.00	.00		8						
2097	53	DV-1 438N	20940	.042	1.0	-.023	.025	-.011	-.55	.60	-.26	.000	.0		
			2.898	.14	.10	.03	.17	1.0	.036	.850	.32	.02	-.03	.01	
			.04	.00	.00	.00	.00		8						
2098	54	MW-1 438N	5735	.040	1.0	-.005	.047	.013	-.13	1.18	.33	.004	.1		
			2.863	.07	.13	.07	.16	1.3	.049	1.226	.28	.01	-.05	-.01	
			.05	.00	.00	.00	.00		8						
2099	55	NF-1 FB-1	9016	.019	1.0	.031	-.029	.014	1.63	-1.53	.74	.000	.0		
			2.715	.07	.05	.00	.08	2.8	.045	2.353	.33	-.04	.03	-.02	
			.05	.00	.00	.00	.01		8						
2100	56	FK-1 FB-1	14517	.035	1.0	-.016	-.065	-.006	-.46	-1.86	-.17	.004	.1		
			2.795	.08	.11	.02	.14	1.8	.067	1.920	.09	.02	.07	.01	
			.07	.00	.00	.00	.00		8						
2101	57	ML-1 FB-1	13689	.041	1.0	.025	-.039	.015	.61	-.95	.37	.005	.1		
			2.803	.07	.13	.08	.17	1.3	.049	1.188	.32	-.03	.04	-.02	
			.05	.00	.00	.00	.00		8						
2102	58	MW-1 FB-1	15786	.025	1.0	-.033	.005	.013	-1.32	.20	.52	.004	.2		
			2.620	.09	.07	.01	.11	1.5	.036	1.433	.39	.04	-.01	-.01	
			.04	.01	.00	.00	.01		8						
2103	59	NF-1 BH-1	14238	.141	1.0	.026	.038	-.050	.18	.27	-.35	.005	.0		
			2.981	.48	.30	.05	.57	.4	.068	.482	1.09	-.03	-.04	.05	
			.07	.00	.00	.00	.00		8						
2104	60	FK-1 NF-1	8158	.020	1.0	-.037	-.032	.003	-1.85	-1.60	.15	.004	.2		
			2.443	.07	.05	.01	.09	2.9	.049	2.451	.06	.05	.04	.00	
			.06	.01	.01	.00	.01		8						
2105	61	ML-1 NF-1	6657	.018	1.0	-.006	-.008	.005	-.33	-.44	.28	.006	.3		
			2.071	.07	.05	.00	.09	.7	.011	.621	.50	.01	.01	-.01	
			.02	.00	.00	.00	.01		8						
2106	62	MW-1 NF-1	6832	.016	1.0	-.012	-.019	.008	-.75	-1.19	.50	.004	.3		
			2.150	.06	.05	.00	.08	1.8	.024	1.491	.36	.02	.03	-.01	
			.03	.01	.01	.00	.01		8						
2107	63	BH-1 FK-1	6189	.014	1.0	-.013	-.014	.005	-.93	-1.00	.36	.005	.4		
			1.858	.04	.04	.04	.07	2.0	.020	1.411	.26	.02	.02	-.01	
			.03	.01	.01	.00	.01		8						
2108	64	FK-1 ML-1	13083	.028	1.0	-.041	-.011	-.004	-1.46	-.39	-.14	.007	.3		
			2.497	.10	.06	.02	.12	1.4	.043	1.523	.09	.05	.01	.00	
			.05	.01	.00	.00	.01		8						
2109	65	WP-1 ML-1	8586	.031	1.0	.012	.026	.019	.39	.84	.61	.004	.1		
			2.584	.11	.08	.01	.14	1.5	.034	1.109	.66	-.01	-.03	-.02	
			.04	.00	.00	.00	.01		8						
2110	66	DV-1 ML-1	9913	.032	1.0	.031	.001	-.025	.97	.03	-.78	.006	.2		

			2.597	.12	.07	.02	.14	1.3	.040	1.245	.81	-.04	.00	.03	.05	
			-.01	.00	.01	.01		8								
2111		67 BH-1 MW-1	13383	.026	1.0				-.028	-.009	.039	-1.08	-.35	1.50	.007	.3
			2.415	.10	.06	.02	.12	2.2	.049	1.879	1.33	.04	.01	-.05		
			.06	.01	.00	-.01	.01	8								
2112		68 FK-1 MW-1	9184	.025	1.0				-.040	-.007	-.017	-1.60	-.28	-.68	.006	.2
			2.503	.09	.06	.01	.11	1.6	.044	1.761	.42	.05	.01	.02		
			.05	.01	.00	.00	.01	8								
2113		69 ML-1 MW-1	5568	.014	1.0				.007	.010	-.006	.50	.71	-.43	.006	.4
			1.514	.07	.05	.01	.08	1.4	.014	.972	.49	-.01	-.02	.01	.03	
			-.01	-.01	.01	.01		8								
2114		70 DV-1 MW-1	15328	.045	1.0				-.004	-.015	.006	-.09	-.33	.13	.005	.1
			2.827	.15	.10	.02	.18	.4	.017	.370	.39	.00	.02	-.01		
			.02	.00	.00	.00	.00	8								
2115		71 BH-1 438N	9406	.047	1.0				-.020	.034	.013	-.43	.72	.28	.006	.1
			2.880	.15	.12	.01	.19	1.2	.042	.884	.33	.02	-.04	-.01		
			.04	.00	.00	.00	.00	8								
2116		72 438N CENT	22542	.024	1.0				-.019	-.010	.008	-.79	-.42	.33	.008	.3
			2.468	.09	.06	.01	.11	1.0	.023	.955	.37	.02	.01	-.01		
			.03	.00	.00	.00	.00	8								
2117		73 438P CENT	20157	.027	1.0				-.009	-.015	-.005	-.33	-.56	-.19	.007	.3
			2.616	.09	.07	.00	.11	.9	.018	.674	.29	.01	.02	.01		
			.02	.00	.00	.00	.00	8								
2118		74 FK-1 CENT	17510	.020	1.0				-.012	.002	.008	-.60	.10	.40	.008	.4
			2.051	.08	.05	.01	.09	1.0	.015	.728	.66	.02	-.01	-.01		
			.02	.01	.00	.00	.01	8								
2119		75 PV-1 CENT	13966	.038	1.0				.079	.008	-.014	2.08	.21	-.37	.008	.2
			2.694	.13	.10	.00	.16	2.0	.081	2.122	.18	-.09	-.01	.01	.09	
			-.01	.00	.00	.01		8								
2120		76 438N FK-1	8044	.031	1.0				.025	-.035	.000	.81	-1.13	.00	.004	.1
			2.826	.09	.09	.03	.13	1.5	.043	1.387	.00	-.03	.04	.00		
			.04	.00	.00	.00	.00	8								
2121		77 438P FK-1	9119	.030	1.0				-.039	.010	.019	-1.30	.33	.63	.003	.1
			2.824	.10	.08	.01	.12	1.6	.045	1.484	.47	.04	-.01	-.02		
			.05	.00	.00	.00	.00	8								
2122		78 BH-1 FK-1	6189	.025	1.0				-.009	-.002	.003	-.36	-.08	.12	.005	.2
			2.672	.08	.07	.00	.11	.3	.010	.388	.33	.01	.00	.00		
			.01	.00	.00	.00	.00	8								
2123		79 PV-1 FK-1	7481	.010	1.0				-.015	.001	-.001	-1.50	.10	-.10	.005	.5
			1.157	.05	.04	.01	.07	2.2	.015	1.507	.07	.04	.00	.00		
			.04	.02	.00	.00	.02	8								
2124		80 438N PV-1	15458	.041	1.0				-.055	.020	.052	-1.34	.49	1.27	.005	.1
			2.841	.12	.12	.02	.17	2.0	.078	1.909	.89	.06	-.02	-.06		
			.08	.00	.00	.00	.01	8								
2125		81 438P PV-1	6235	.044	1.0				.004	.021	.001	.09	.48	.02	.006	.1
			2.852	.14	.11	.01	.18	.6	.021	.486	.05	.00	-.02	.00		
			.02	.00	.00	.00	.00	8								
2126		82 BH-1 PV-1	9517	.032	1.0				.014	-.009	-.035	.44	-.28	-1.09	.005	.2
			2.654	.11	.08	.01	.14	1.3	.039	1.211	2.10	-.01	.01	.04		
			.04	.00	.00	.00	.00	8								
2127		83 MW-1 438M	16629	.022	1.0				-.013	.010	.003	-.59	.45	.14	.005	.2
			2.537	.08	.05	.01	.09	1.0	.017	.758	.18	.01	-.01	.00		
			.02	.00	.00	.00	.00	8								
2128		84 BH-1 FB-1	20447	.024	1.0				.016	.013	-.006	.67	.54	-.25	.005	.2
			2.518	.08	.07	.00	.11	.9	.021	.895	.29	-.02	-.01	.01		
			.03	.00	.00	.00	.00	8								
2129		85 438N CENT	22542	.083	1.0				-.015	.027	-.019	-.18	.33	-.23	.008	.1
			2.907	.20	.25	.10	.34	.8	.036	.437	.62	.02	-.03	.02		
			.04	.00	.00	.00	.00	8								
2130		86 ML-1 BH-1	18296	.032	1.0				-.036	-.007	-.003	-1.13	-.22	-.09	.008	.3
			2.583	.11	.08	.00	.14	1.1	.037	1.150	.08	.04	.01	.01		
			.04	.01	.00	.00	.01	8								
2131		87 WP-1 MW-1	13252	.073	1.0 *				-.103	.029	.170	-1.41	.40	2.33	.004	.1
			2.934	.21	.20	.05	.30	2.9	.201	2.752	1.59	.11	-.03	-.18		
			.21	.00	.00	-.01	.01	8								
2132		88 FB-1 438P	7996	.045	1.0				.021	.019	-.024	.47	.42	-.53	.000	.0

	2.946	.13	.13	.01	.18	.8	.037	.825	.85	-.02	-.02	.02	
	.04	.00	.00	.00	.00		8						
2133	89 FB-1	438N	19648	.050	1.0		.006	.025	-.004	.12	.50	-.08	.000 .0
	2.958	.15	.13	.03	.20	.5	.026	.520	.16	-.01	-.03	.00	
	.03	.00	.00	.00	.00		8						
2134	90 NF-1	438N	10853	.050	1.0		.013	.039	.006	.26	.78	.12	.000 .0
	2.954	.15	.13	.03	.20	.9	.042	.831	.15	-.01	-.04	-.01	
	.04	.00	.00	.00	.00		8						
2135	91 NF-1	FB-1	9016	.050	1.0		.004	-.006	-.003	.08	-.12	-.06	.000 .0
	2.956	.16	.13	.03	.20	.0	.008	.156	.42	.00	.01	.00	
	.01	.00	.00	.00	.00		8						
2136	92 WW-1	438J	13092	.062	1.0		.020	-.017	.017	.32	-.27	.27	.000 .0
	2.934	.20	.15	.03	.25	.5	.031	.504	.65	-.02	.02	-.02	
	.03	.00	.00	.00	.00		8						
2137	93 FB-1	438P	7996	.035	1.0		.016	.023	-.009	.46	.66	-.26	.000 .0
	2.907	.04	.13	.04	.14	.8	.029	.841	.32	-.02	-.02	.01	
	.03	.00	.00	.00	.00		8						
2138	94 SR-1	438P	15682	.046	1.0		.020	.033	-.016	.43	.72	-.35	.000 .0
	2.935	.14	.12	.00	.19	.9	.042	.908	.41	-.02	-.03	.02	
	.04	.00	.00	.00	.00		8						
2139	95 RD-1	SAVN	13770	.047	1.0		-.014	-.021	-.025	-.30	-.45	-.53	.000 .0
	2.901	.15	.12	.03	.19	.8	.036	.756	.99	.01	.02	.03	
	.04	.00	.00	.00	.00		8						
2140	96 DV-1	WL-1	5872	.032	1.0		.007	.001	-.007	.22	.03	-.22	.000 .0
	2.648	.10	.09	.00	.14	.3	.010	.311	.99	-.01	.00	.01	
	.01	.00	.00	.00	.00		8						
2141	97 DV-1	0002	7413	.036	1.0		.001	-.009	.021	.03	-.25	.58	.000 .0
	2.859	.11	.10	.02	.15	.6	.023	.635	2.32	.00	.01	-.02	
	.03	.00	.00	.00	.00		8						
2142	98 DH-1	0002	4219	.030	1.0		-.007	-.003	-.012	-.23	-.10	-.40	.000 .0
	2.732	.10	.08	.00	.13	.4	.014	.474	1.58	.01	.00	.01	
	.02	.00	.00	.00	.00		8						
2143	99 BK-1	0002	7137	.031	1.0		-.001	.001	.004	-.03	.03	.13	.000 .0
	2.809	.10	.08	.02	.13	.0	.004	.137	2.83	.00	.00	.00	
	.00	.00	.00	.00	.00		8						
2144	100 WL-1	0002	5670	.035	1.0		-.006	-.006	-.004	-.17	-.17	-.11	.000 .0
	2.707	.12	.09	.01	.15	.3	.009	.268	.47	.01	.01	.00	.01
	.00	.00	.00	.00	.00		8						
2145	101 NF-1	FB-1	9016	.030	1.0		.004	.008	-.010	.13	.27	-.33	.000 .0
	2.870	.09	.08	.01	.12	.4	.013	.447	1.12	.00	-.01	.01	.01
	.00	.00	.00	.00	.00		8						
2146	102 SR-1	FB-1	8619	.038	1.0		.010	.014	-.031	.26	.37	-.82	.000 .0
	2.856	.11	.11	.01	.16	.9	.035	.933	1.80	-.01	-.01	.03	.04
	.00	.00	.00	.00	.00		8						
2147	103 SR-1	NF-1	17172	.038	1.0		-.008	-.002	.002	-.21	-.05	.05	.000 .0
	2.853	.11	.11	.01	.16	.0	.008	.223	.24	.01	.00	.00	.01
	.00	.00	.00	.00	.00		8						
2148	104 RD-1	438J	9022	.041	1.0		.015	.002	-.017	.37	.05	-.41	.000 .0
	2.889	.13	.11	.00	.17	.4	.023	.555	1.12	-.01	.00	.02	.02
	.00	.00	.00	.00	.00		8						
2149	105 SR-1	438J	6279	.036	1.0		.004	-.021	.003	.11	-.58	.08	.000 .0
	2.897	.11	.10	.02	.15	.7	.022	.600	.14	.00	.02	.00	.02
	.00	.00	.00	.00	.00		8						
2150	106 SR-1	438J	6279	.037	1.0		-.008	-.008	-.004	-.22	-.22	-.11	.000 .0
	2.898	.11	.11	.00	.15	.3	.012	.324	.35	.01	.01	.00	.01
	.00	.00	.00	.00	.00		8						
2151	107 FB-1	SR-1	8619	.045	1.0		.015	-.017	.019	.33	-.38	.42	.000 .0
	2.901	.14	.11	.03	.18	.6	.030	.657	.84	-.01	.02	-.02	.03
	.00	.00	.00	.00	.00		8						
2152	108 RD-1	SR-1	11128	.035	1.0		.013	.009	-.022	.37	.26	-.63	.000 .0
	2.829	.11	.09	.00	.15	.6	.027	.774	1.39	-.01	-.01	.02	.03
	.00	.00	.00	.00	.00		8						
2153	109 SR-1	RD-1	11128	.066	1.0		-.003	-.005	-.004	-.05	-.08	-.06	.000 .0
	2.952	.22	.15	.01	.27	.0	.007	.107	.69	.00	.01	.00	.01
	.00	.00	.00	.00	.00		8						
2154	110 SR-1	RD-1	11128	.037	1.0		.003	-.004	.044	.08	-.11	1.19	.000 .0

2203	64 FK-1 ML-1	13083	.028	1.0	-.041	-.011	-.004	-1.46	-.39	-.14	.007	.3
	2.497 .06	.04	.01	.12 1.4	.043	1.523	.09	.05	.01	.00		
	.05 .01	.00	.00	.01	8							
2204	68 FK-1 MW-1	9184	.025	1.0	-.040	-.007	-.017	-1.60	-.28	-.68	.006	.2
	2.503 .06	.04	.01	.11 1.6	.044	1.761	.42	.05	.01	.02		
	.05 .01	.00	.00	.01	8							
2205	74 FK-1 CENT	17510	.020	1.0	-.012	.002	.008	-.60	.10	.40	.008	.4
	2.051 .06	.04	.01	.09 1.0	.015	.728	.66	.02	-.01	-.01		
	.02 .01	.00	.00	.01	8							
2206	76 FK-1 438N	8044	.031	1.0	-.025	.035	.000	-.81	1.13	.00	.004	.1
	2.826 .06	.04	.01	.13 1.5	.043	1.387	.00	.03	-.04	.00		
	.04 .00	.00	.00	.00	8							
2207	77 FK-1 438P	9119	.030	1.0	.039	-.010	-.019	1.30	-.33	-.63	.003	.1
	2.824 .06	.04	.01	.12 1.6	.045	1.484	.47	-.04	.01	.02		
	.05 .00	.00	.00	.00	8							
2208	78 FK-1 BH-1	6189	.025	1.0	.009	.002	-.003	.36	.08	-.12	.005	.2
	2.672 .06	.04	.01	.11 .3	.010	.388	.33	-.01	.00	.00		
	.01 .00	.00	.00	.00	8							
2209	79 FK-1 PV-1	7481	.010	1.0	.015	-.001	.001	1.50	-.10	.10	.005	.5
	1.157 .06	.04	.01	.07 2.2	.015	1.507	.07	-.04	.00	.00	.04	
	-.02 .00	.00	.02	8								
2210												
2211	11 MW-1 438N	5735	.033	1.0	-.003	.045	.015	-.09	1.36	.45	.004	.1
	2.809 .15	.12	.03	.14 1.8	.048	1.440	.33	.00	-.05	-.02		
	.05 .00	.00	.00	.00	8							
2212	12 MW-1 438P	14975	.048	1.0	.011	.021	-.001	.23	.44	-.02	.004	.1
	2.909 .15	.12	.03	.19 .5	.024	.494	.04	-.01	-.02	.00		
	.02 .00	.00	.00	.00	8							
2213	54 MW-1 438N	5735	.040	1.0	-.005	.047	.013	-.13	1.18	.33	.004	.1
	2.863 .15	.12	.03	.16 1.3	.049	1.226	.28	.01	-.05	-.01		
	.05 .00	.00	.00	.00	8							
2214	58 MW-1 FB-1	15786	.025	1.0	-.033	.005	.013	-1.32	.20	.52	.004	.2
	2.620 .15	.12	.03	.11 1.5	.036	1.433	.39	.04	-.01	-.01		
	.04 .01	.00	.00	.01	8							
2215	62 MW-1 NF-1	6832	.016	1.0	-.012	-.019	.008	-.75	-1.19	.50	.004	.3
	2.150 .15	.12	.03	.08 1.8	.024	1.491	.36	.02	.03	-.01		
	.03 .01	.01	.00	.01	8							
2216	67 MW-1 BH-1	13383	.026	1.0	.028	.009	-.039	1.08	.35	-1.50	.007	.3
	2.415 .15	.12	.03	.12 2.2	.049	1.879	1.33	-.04	-.01	.05	.06	
	-.01 .00	.01	.01	8								
2217	68 MW-1 FK-1	9184	.025	1.0	.040	.007	.017	1.60	.28	.68	.006	.2
	2.503 .15	.12	.03	.11 1.6	.044	1.761	.42	-.05	-.01	-.02	.05	
	-.01 .00	.00	.01	8								
2218	69 MW-1 ML-1	5568	.014	1.0	-.007	-.010	.006	-.50	-.71	.43	.006	.4
	1.514 .15	.12	.03	.08 1.4	.014	.972	.49	.01	.02	-.01		
	.03 .01	.01	-.01	.01	8							
2219	70 MW-1 DV-1	15328	.045	1.0	.004	.015	-.006	.09	.33	-.13	.005	.1
	2.827 .15	.12	.03	.18 .4	.017	.370	.39	.00	-.02	.01		
	.02 .00	.00	.00	.00	8							
2220	83 MW-1 438M	16629	.022	1.0	-.013	.010	.003	-.59	.45	.14	.005	.2
	2.537 .15	.12	.03	.09 1.0	.017	.758	.18	.01	-.01	.00		
	.02 .00	.00	.00	.00	8							
2221	87 MW-1 WP-1	13252	.073	1.0 *	.103	-.029	-.170	1.41	-.40	-2.33	.004	.1
	2.934 .15	.12	.03	.30 2.9	.201	2.752	1.59	-.11	.03	.18		
	.21 .00	.00	.01	.01	8							
2222												
2223	13 BH-1 FB-1	20447	.048	1.0	.017	.030	-.008	.35	.63	-.17	.005	.1
	2.874 .16	.15	.02	.20 .8	.035	.737	.23	-.02	-.03	.01		
	.04 .00	.00	.00	.00	8							
2224	14 BH-1 PV-1	9517	.047	1.0	.014	.027	-.023	.30	.57	-.49	.005	.1
	2.858 .16	.15	.02	.19 .8	.038	.811	.76	-.01	-.03	.03		
	.04 .00	.00	.00	.00	8							
2225	24 BH-1 438N	9406	.042	1.0	.007	.050	.005	.17	1.19	.12	.006	.1
	2.857 .16	.15	.02	.17 1.4	.051	1.208	.10	-.01	-.05	.00		
	.05 .00	.00	.00	.00	8							
2226	26 BH-1 FK-1	6189	.027	1.0	.010	.019	-.007	.37	.70	-.26	.005	.2

		2.719	.16	.15	.02	.11	.9	.023	.836	.33	-.01	-.02	.01	
		.03	.00	.00	.00	.00		8						
2227	27 BH-1 CENT	13148	.039	1.0				.023	.027	-.050	.59	.69	-1.28	.009 .2
		2.717	.16	.15	.02	.16	1.8	.061	1.572	1.41	-.03	-.03	.06	
		.07	.00	.00	.01	.01		8						
2228	29 BH-1 PV-1	9517	.053	1.0				.009	-.005	-.004	.17	-.09	-.08	.005 .1
		2.877	.16	.15	.02	.21	.3	.011	.208	.39	-.01	.01	.00	
		.01	.00	.00	.00	.00		8						
2229	59 BH-1 NF-1	14238	.141	1.0				-.026	-.038	.050	-.18	-.27	.35	.005 .0
		2.981	.16	.15	.02	.57	.4	.068	.482	1.09	.03	.04	-.05	
		.07	.00	.00	.00	.00		8						
2230	63 BH-1 FK-1	6189	.014	1.0				-.013	-.014	.005	-.93	-1.00	.36	.005 .4
		1.858	.16	.15	.02	.07	2.0	.020	1.411	.26	.02	.02	-.01	
		.03	.01	.01	.00	.01		8						
2231	67 BH-1 MW-1	13383	.026	1.0				-.028	-.009	.039	-1.08	-.35	1.50	.007 .3
		2.415	.16	.15	.02	.12	2.2	.049	1.879	1.33	.04	.01	-.05	
		.06	.01	.00	-.01	.01		8						
2232	71 BH-1 438N	9406	.047	1.0				-.020	.034	.013	-.43	.72	.28	.006 .1
		2.880	.16	.15	.02	.19	1.2	.042	.884	.33	.02	-.04	-.01	
		.04	.00	.00	.00	.00		8						
2233	78 BH-1 FK-1	6189	.025	1.0				-.009	-.002	.003	-.36	-.08	.12	.005 .2
		2.672	.16	.15	.02	.11	.3	.010	.388	.33	.01	.00	.00	
		.01	.00	.00	.00	.00		8						
2234	82 BH-1 PV-1	9517	.032	1.0				.014	-.009	-.035	.44	-.28	-1.09	.005 .2
		2.654	.16	.15	.02	.14	1.3	.039	1.211	2.10	-.01	.01	.04	
		.04	.00	.00	.00	.00		8						
2235	84 BH-1 FB-1	20447	.024	1.0				.016	.013	-.006	.67	.54	-.25	.005 .2
		2.518	.16	.15	.02	.11	.9	.021	.895	.29	-.02	-.01	.01	
		.03	.00	.00	.00	.00		8						
2236	86 BH-1 ML-1	18296	.032	1.0				.036	.007	.003	1.13	.22	.09	.008 .3
		2.583	.16	.15	.02	.14	1.1	.037	1.150	.08	-.04	-.01	-.01	.04
		-.01	.00	.00	.01		8							
2237														
2238	14 PV-1 BH-1	9517	.047	1.0				-.014	-.027	.023	-.30	-.57	.49	.005 .1
		2.858	.10	.08	.01	.19	.8	.038	.811	.76	.01	.03	-.03	
		.04	.00	.00	.00	.00		8						
2239	15 PV-1 FB-1	14182	.035	1.0				-.004	-.001	-.002	-.11	-.03	-.06	.006 .2
		2.744	.10	.08	.01	.15	.0	.005	.131	.49	.00	.00	.00	
		.01	.00	.00	.00	.00		8						
2240	19 PV-1 438P	6235	.029	1.0				.034	.000	.007	1.17	.00	.24	.006 .2
		2.669	.10	.08	.01	.12	1.1	.035	1.197	.21	-.04	.00	-.01	
		.04	.00	.00	.00	.00		8						
2241	20 PV-1 FK-1	7481	.029	1.0				.012	-.013	-.001	.41	-.45	-.03	.005 .2
		2.773	.10	.08	.01	.12	.8	.018	.611	.06	-.01	.01	.00	
		.02	.00	.00	.00	.00		8						
2242	28 PV-1 CENT	13966	.058	1.0				.024	.021	-.046	.41	.36	-.79	.008 .1
		2.876	.10	.08	.01	.24	1.0	.056	.965	1.44	-.03	-.02	.05	
		.06	.00	.00	.00	.00		8						
2243	29 PV-1 BH-1	9517	.053	1.0				-.009	.005	.004	-.17	.09	.08	.005 .1
		2.877	.10	.08	.01	.21	.3	.011	.208	.39	.01	-.01	.00	
		.01	.00	.00	.00	.00		8						
2244	75 PV-1 CENT	13966	.038	1.0				.079	.008	-.014	2.08	.21	-.37	.008 .2
		2.694	.10	.08	.01	.16	2.0	.081	2.122	.18	-.09	-.01	.01	.09
		-.01	.00	.00	.01		8							
2245	79 PV-1 FK-1	7481	.010	1.0				-.015	.001	-.001	-1.50	.10	-.10	.005 .5
		1.157	.10	.08	.01	.07	2.2	.015	1.507	.07	.04	.00	.00	
		.04	.02	.00	.00	.02		8						
2246	80 PV-1 438N	15458	.041	1.0				.055	-.020	-.052	1.34	-.49	-1.27	.005 .1
		2.841	.10	.08	.01	.17	2.0	.078	1.909	.89	-.06	.02	.06	
		.08	.00	.00	.00	.01		8						
2247	81 PV-1 438P	6235	.044	1.0				-.004	-.021	-.001	-.09	-.48	-.02	.006 .1
		2.852	.10	.08	.01	.18	.6	.021	.486	.05	.00	.02	.00	
		.02	.00	.00	.00	.00		8						
2248	82 PV-1 BH-1	9517	.032	1.0				-.014	.009	.035	-.44	.28	1.09	.005 .2
		2.654	.10	.08	.01	.14	1.3	.039	1.211	2.10	.01	-.01	-.04	
		.04	.00	.00	.00	.00		8						

2249													
2250	16 HB-1 RD-1	7387	.047	1.0		-.014	-.008	.012	-.30	-.17	.26	.010	.2
	2.494 .10	.10	.01	.21	.4	.020	.428	.74	.02	.01	-.01		
	.02 .00	.00	.00	.00		8							
2251	17 HB-1 ST30	11704	.082	1.0		-.016	.021	.021	-.20	.26	.26	.012	.1
	2.706 .10	.10	.01	.34	.6	.034	.411	.80	.02	-.02	-.02		
	.04 .00	.00	.00	.00		8							
2252	33 HB-1 438G	7198	.039	1.0		-.008	-.021	.004	-.21	-.54	.10	.012	.3
	2.343 .10	.10	.01	.18	.7	.023	.585	.18	.01	.03	-.01		
	.03 .00	.01	.00	.01		8							
2253	34 HB-1 438J	5673	.038	1.0		.024	.002	-.013	.63	.05	-.34	.011	.3
	2.303 .10	.10	.01	.17	.8	.027	.720	.54	-.03	.00	.02	.04	
	-.01 .00	.00	.01		8								
2254	36 HB-1 QC-1	11115	.043	1.0		-.021	-.006	-.003	-.49	-.14	-.07	.012	.3
	2.407 .10	.10	.01	.19	.5	.022	.513	.14	.03	.01	.00		
	.03 .01	.00	.00	.01		8							
2255	38 HB-1 SR-1	11441	.052	1.0		.015	.026	-.002	.29	.50	-.04	.010	.2
	2.602 .10	.10	.01	.22	.7	.030	.579	.07	-.02	-.03	.00		
	.03 .00	.00	.00	.00		8							
2256	42 HB-1 ST30	11704	.073	1.0		.017	.011	.001	.23	.15	.01	.012	.2
	2.666 .10	.10	.01	.31	.3	.020	.278	.05	-.02	-.01	.00		
	.02 .00	.00	.00	.00		8							
2257													
2258	17 ST30 HB-1	11704	.082	1.0		.016	-.021	-.021	.20	-.26	-.26	.012	.1
	2.706 .12	.11	.02	.34	.6	.034	.411	.80	-.02	.02	.02		
	.04 .00	.00	.00	.00		8							
2259	39 ST30 SR-1	4514	.031	1.0		-.001	.012	.003	-.03	.39	.10	.011	.4
	1.961 .12	.11	.02	.15	.6	.012	.400	.25	.00	-.02	.00		
	.02 .00	-.01	.00	.01		8							
2260	40 ST30 438G	16820	.047	1.0		-.001	.011	.005	-.02	.23	.11	.010	.2
	2.575 .12	.11	.02	.20	.3	.012	.258	.45	.00	-.01	-.01		
	.01 .00	.00	.00	.00		8							
2261	41 ST30 438J	8227	.033	1.0		.006	-.015	-.003	.18	-.45	-.09	.009	.3
	2.142 .12	.11	.02	.16	.8	.016	.498	.19	-.01	.02	.00		
	.02 .00	.01	.00	.01		8							
2262	42 ST30 HB-1	11704	.073	1.0		-.017	-.011	-.001	-.23	-.15	-.01	.012	.2
	2.666 .12	.11	.02	.31	.3	.020	.278	.05	.02	.01	.00		
	.02 .00	.00	.00	.00		8							
2263	43 ST30 QC-1	16134	.046	1.0		-.007	.008	.003	-.15	.17	.07	.011	.2
	2.465 .12	.11	.02	.20	.3	.011	.240	.28	.01	-.01	.00		
	.01 .00	.00	.00	.00		8							
2264													
2265	1 QC-1 SAVN	8327	.008	1.0		.003	-.001	.006	.38	-.13	.75	.004	.5
	1.249 .13	.11	.02	.05	1.1	.007	.848	1.90	-.01	.00	-.01		
	.01 .00	.00	-.01	.01		8							
2266	3 QC-1 BK-1	14263	.015	1.0		.002	.002	.004	.13	.13	.27	.003	.2
	2.258 .13	.11	.02	.07	.3	.005	.327	1.41	.00	.00	-.01		
	.01 .00	.00	.00	.00		8							
2267	21 QC-1 SAVN	8327	.037	1.0		-.012	-.003	.001	-.32	-.08	.03	.004	.1
	2.924 .13	.11	.02	.15	.3	.012	.335	.08	.01	.00	.00		
	.01 .00	.00	.00	.00		8							
2268	23 QC-1 MT-1	7725	.034	1.0		-.008	-.014	-.004	-.24	-.41	-.12	.008	.2
	2.068 .13	.11	.02	.16	.7	.017	.489	.25	.01	.02	.01		
	.02 .00	.01	.00	.01		8							
2269	30 QC-1 RD-1	7719	.024	1.0		-.014	.009	-.035	-.58	.38	-1.46	.004	.2
	2.537 .13	.11	.02	.11	1.5	.039	1.615	2.10	.02	-.01	.04		
	.05 .00	.00	.01	.01		8							
2270	31 QC-1 MT-1	7725	.034	1.0		.001	.014	-.005	.03	.41	-.15	.008	.2
	2.022 .13	.11	.02	.16	.8	.015	.438	.36	.00	-.02	.01		
	.02 .00	-.01	.00	.01		8							
2271	35 QC-1 438G	6535	.033	1.0		.010	-.016	.006	.30	-.48	.18	.003	.1
	2.811 .13	.11	.02	.14	.8	.020	.600	.32	-.01	.02	-.01		
	.02 .00	.00	.00	.00		8							
2272	36 QC-1 HB-1	11115	.043	1.0		.021	.006	.003	.49	.14	.07	.012	.3
	2.407 .13	.11	.02	.19	.5	.022	.513	.14	-.03	-.01	.00	.03	
	-.01 .00	.00	.01		8								

2273	43 QC-1 ST30	16134	.046	1.0	.007	-.008	-.003	.15	-.17	-.07	.011	.2
	2.465	.13	.11	.02	.20	.3	.011	.240	.28	-.01	.01	.00
	.01	.00	.00	.00	.00		8					
2274	44 QC-1 438G	6535	.039	1.0	.016	-.018	-.010	.41	-.46	-.26	.003	.1
	2.864	.13	.11	.02	.16	.8	.026	.669	.42	-.02	.02	.01
	.03	.00	.00	.00	.00		8					
2275	47 QC-1 SAVN	8327	.020	1.0	-.019	-.001	-.019	-.95	-.05	-.95	.004	.2
	2.726	.13	.11	.02	.08	1.3	.027	1.344	1.00	.02	.00	.02
	.03	.00	.00	.00	.00		8					
2276	48 QC-1 CO-1	15659	.044	1.0	.001	.012	.016	.02	.27	.36	.009	.2
	2.521	.13	.11	.02	.19	.5	.020	.455	1.33	.00	-.01	-.02
	.02	.00	.00	.00	.00		8					
2277												
2278	22 MT-1 SAVN	7606	.039	1.0	-.007	.007	-.001	-.18	.18	-.03	.012	.3
	2.286	.12	.11	.02	.18	.3	.010	.255	.10	.01	-.01	.00
	.01	.00	.00	.00	.00		8					
2279	23 MT-1 QC-1	7725	.034	1.0	.008	.014	.004	.24	.41	.12	.008	.2
	2.068	.12	.11	.02	.16	.7	.017	.489	.25	-.01	-.02	-.01
	.02	.00	-.01	.00	.01		8					
2280	31 MT-1 QC-1	7725	.034	1.0	-.001	-.014	.005	-.03	-.41	.15	.008	.2
	2.022	.12	.11	.02	.16	.8	.015	.438	.36	.00	.02	-.01
	.02	.00	.01	.00	.01		8					
2281	32 MT-1 RD-1	7925	.051	1.0	-.011	-.003	-.013	-.22	-.06	-.25	.012	.2
	2.496	.12	.11	.02	.22	.3	.017	.339	1.14	.01	.00	.01
	.02	.00	.00	.00	.00		8					
2282												
2283	27 CENT BH-1	13148	.039	1.0	-.023	-.027	.050	-.59	-.69	1.28	.009	.2
	2.717	.10	.09	.02	.16	1.8	.061	1.572	1.41	.03	.03	-.06
	.07	.00	.00	-.01	.01		8					
2284	28 CENT PV-1	13966	.058	1.0	-.024	-.021	.046	-.41	-.36	.79	.008	.1
	2.876	.10	.09	.02	.24	1.0	.056	.965	1.44	.03	.02	-.05
	.06	.00	.00	.00	.00		8					
2285	72 CENT 438N	22542	.024	1.0	.019	.010	-.008	.79	.42	-.33	.008	.3
	2.468	.10	.09	.02	.11	1.0	.023	.955	.37	-.02	-.01	.01
	.03	.00	.00	.00	.00		8					
2286	73 CENT 438P	20157	.027	1.0	.009	.015	.005	.33	.56	.19	.007	.3
	2.616	.10	.09	.02	.11	.9	.018	.674	.29	-.01	-.02	-.01
	.02	.00	.00	.00	.00		8					
2287	74 CENT FK-1	17510	.020	1.0	.012	-.002	-.008	.60	-.10	-.40	.008	.4
	2.051	.10	.09	.02	.09	1.0	.015	.728	.66	-.02	.01	.01
	-.01	.00	.00	.01			8					.02
2288	75 CENT PV-1	13966	.038	1.0	-.079	-.008	.014	-2.08	-.21	.37	.008	.2
	2.694	.10	.09	.02	.16	2.0	.081	2.122	.18	.09	.01	-.01
	.09	.01	.00	.00	.01		8					
2289	85 CENT 438N	22542	.083	1.0	.015	-.027	.019	.18	-.33	.23	.008	.1
	2.907	.10	.09	.02	.34	.8	.036	.437	.62	-.02	.03	-.02
	.04	.00	.00	.00	.00		8					
2290												
2291	57 ML-1 FB-1	13689	.041	1.0	.025	-.039	.015	.61	-.95	.37	.005	.1
	2.803	.14	.13	.02	.17	1.3	.049	1.188	.32	-.03	.04	-.02
	.05	.00	.00	.00	.00		8					
2292	61 ML-1 NF-1	6657	.018	1.0	-.006	-.008	.005	-.33	-.44	.28	.006	.3
	2.071	.14	.13	.02	.09	.7	.011	.621	.50	.01	.01	-.01
	.02	.00	.00	.00	.01		8					
2293	64 ML-1 FK-1	13083	.028	1.0	.041	.011	.004	1.46	.39	.14	.007	.3
	2.497	.14	.13	.02	.12	1.4	.043	1.523	.09	-.05	-.01	.00
	-.01	.00	.00	.01			8					.05
2294	65 ML-1 WP-1	8586	.031	1.0	-.012	-.026	-.019	-.39	-.84	-.61	.004	.1
	2.584	.14	.13	.02	.14	1.5	.034	1.109	.66	.01	.03	.02
	.04	.00	.00	.00	.01		8					
2295	66 ML-1 DV-1	9913	.032	1.0	-.031	-.001	.025	-.97	-.03	.78	.006	.2
	2.597	.14	.13	.02	.14	1.3	.040	1.245	.81	.04	.00	-.03
	.05	.01	.00	-.01	.01		8					
2296	69 ML-1 MW-1	5568	.014	1.0	.007	.010	-.006	.50	.71	-.43	.006	.4
	1.514	.14	.13	.02	.08	1.4	.014	.972	.49	-.01	-.02	.01
	-.01	-.01	.01	.01			8					.03

2297	86 ML-1 BH-1	18296	.032	1.0	-.036	-.007	-.003	-1.13	-.22	-.09	.008	.3
	2.583 .14	.13 .02	.14 1.1	.037	1.150	.08	.04	.01	.01			
	.04 .01	.00 .00	.01	8								
2298												
2299	7 438P FK-1	9119	.034	1.0	-.030	-.004	.007	-.88	-.12	.21	.003	.1
	2.869 .14	.13 .00	.14 .8	.031	.914	.23	.03	.00	-.01			
	.03 .00	.00 .00	.00	8								
2300	12 438P MW-1	14975	.048	1.0	-.011	-.021	.001	-.23	-.44	.02	.004	.1
	2.909 .14	.13 .00	.19 .5	.024	.494	.04	.01	.02	.00			
	.02 .00	.00 .00	.00	8								
2301	18 438P FK-1	9119	.031	1.0	-.024	-.013	.001	-.77	-.42	.03	.003	.1
	2.833 .14	.13 .00	.13 .8	.027	.881	.04	.03	.01	.00			
	.03 .00	.00 .00	.00	8								
2302	19 438P PV-1	6235	.029	1.0	-.034	.000	-.007	-1.17	.00	-.24	.006	.2
	2.669 .14	.13 .00	.12 1.1	.035	1.197	.21	.04	.00	.01			
	.04 .00	.00 .00	.00	8								
2303	73 438P CENT	20157	.027	1.0	-.009	-.015	-.005	-.33	-.56	-.19	.007	.3
	2.616 .14	.13 .00	.11 .9	.018	.674	.29	.01	.02	.01			
	.02 .00	.00 .00	.00	8								
2304	77 438P FK-1	9119	.030	1.0	-.039	.010	.019	-1.30	.33	.63	.003	.1
	2.824 .14	.13 .00	.12 1.6	.045	1.484	.47	.04	-.01	-.02			
	.05 .00	.00 .00	.00	8								
2305	81 438P PV-1	6235	.044	1.0	.004	.021	.001	.09	.48	.02	.006	.1
	2.852 .14	.13 .00	.18 .6	.021	.486	.05	.00	-.02	.00			
	.02 .00	.00 .00	.00	8								
2306	88 438P FB-1	7996	.045	1.0	-.021	-.019	.024	-.47	-.42	.53	.000	.0
	2.946 .14	.13 .00	.18 .8	.037	.825	.85	.02	.02	-.02			
	.04 .00	.00 .00	.00	8								
2307	93 438P FB-1	7996	.035	1.0	-.016	-.023	.009	-.46	-.66	.26	.000	.0
	2.907 .14	.13 .00	.14 .8	.029	.841	.32	.02	.02	-.01			
	.03 .00	.00 .00	.00	8								
2308	94 438P SR-1	15682	.046	1.0	-.020	-.033	.016	-.43	-.72	.35	.000	.0
	2.935 .14	.13 .00	.19 .9	.042	.908	.41	.02	.03	-.02			
	.04 .00	.00 .00	.00	8								
2309												
2310	13 FB-1 BH-1	20447	.048	1.0	-.017	-.030	.008	-.35	-.63	.17	.005	.1
	2.874 .14	.13 .01	.20 .8	.035	.737	.23	.02	.03	-.01			
	.04 .00	.00 .00	.00	8								
2311	15 FB-1 PV-1	14182	.035	1.0	.004	.001	.002	.11	.03	.06	.006	.2
	2.744 .14	.13 .01	.15 .0	.005	.131	.49	.00	.00	.00			
	.01 .00	.00 .00	.00	8								
2312	55 FB-1 NF-1	9016	.019	1.0	-.031	.029	-.014	-1.63	1.53	-.74	.000	.0
	2.715 .14	.13 .01	.08 2.8	.045	2.353	.33	.04	-.03	.02			
	.05 .00	.00 .00	.01	8								
2313	56 FB-1 FK-1	14517	.035	1.0	.016	.065	.006	.46	1.86	.17	.004	.1
	2.795 .14	.13 .01	.14 1.8	.067	1.920	.09	-.02	-.07	-.01			
	.07 .00	.00 .00	.00	8								
2314	57 FB-1 ML-1	13689	.041	1.0	-.025	.039	-.015	-.61	.95	-.37	.005	.1
	2.803 .14	.13 .01	.17 1.3	.049	1.188	.32	.03	-.04	.02			
	.05 .00	.00 .00	.00	8								
2315	58 FB-1 MW-1	15786	.025	1.0	.033	-.005	-.013	1.32	-.20	-.52	.004	.2
	2.620 .14	.13 .01	.11 1.5	.036	1.433	.39	-.04	.01	.01	.04		
	-.01 .00	.00 .01	.8									
2316	84 FB-1 BH-1	20447	.024	1.0	-.016	-.013	.006	-.67	-.54	.25	.005	.2
	2.518 .14	.13 .01	.11 .9	.021	.895	.29	.02	.01	-.01			
	.03 .00	.00 .00	.00	8								
2317	88 FB-1 438P	7996	.045	1.0	.021	.019	-.024	.47	.42	-.53	.000	.0
	2.946 .14	.13 .01	.18 .8	.037	.825	.85	-.02	-.02	.02			
	.04 .00	.00 .00	.00	8								
2318	89 FB-1 438N	19648	.050	1.0	.006	.025	-.004	.12	.50	-.08	.000	.0
	2.958 .14	.13 .01	.20 .5	.026	.520	.16	-.01	-.03	.00			
	.03 .00	.00 .00	.00	8								
2319	91 FB-1 NF-1	9016	.050	1.0	-.004	.006	.003	-.08	.12	.06	.000	.0
	2.956 .14	.13 .01	.20 .0	.008	.156	.42	.00	-.01	.00			
	.01 .00	.00 .00	.00	8								
2320	93 FB-1 438P	7996	.035	1.0	.016	.023	-.009	.46	.66	-.26	.000	.0

	2.907	.14	.13	.01	.14	.8	.029	.841	.32	-.02	-.02	.01	
	.03	.00	.00	.00	.00		8						
2321	101 FB-1 NF-1		9016	.030	1.0		-.004	-.008	.010	-.13	-.27	.33	.000 .0
	2.870	.14	.13	.01	.12	.4	.013	.447	1.12	.00	.01	-.01	.01
	.00	.00	.00	.00		8							
2322	102 FB-1 SR-1		8619	.038	1.0		-.010	-.014	.031	-.26	-.37	.82	.000 .0
	2.856	.14	.13	.01	.16	.9	.035	.933	1.80	.01	.01	-.03	.04
	.00	.00	.00	.00		8							
2323	107 FB-1 SR-1		8619	.045	1.0		.015	-.017	.019	.33	-.38	.42	.000 .0
	2.901	.14	.13	.01	.18	.6	.030	.657	.84	-.01	.02	-.02	.03
	.00	.00	.00	.00		8							
2324	128 FB-1 WP-1		8451	.034	1.0		-.020	-.012	.027	-.59	-.35	.79	.000 .0
	2.809	.14	.13	.01	.14	1.0	.036	1.049	1.16	.02	.01	-.03	.04
	.00	.00	.00	.00		8							
2325													
2326	55 NF-1 FB-1		9016	.019	1.0		.031	-.029	.014	1.63	-1.53	.74	.000 .0
	2.715	.11	.10	.01	.08	2.8	.045	2.353	.33	-.04	.03	-.02	
	.05	.00	.00	.00	.01		8						
2327	59 NF-1 BH-1		14238	.141	1.0		.026	.038	-.050	.18	.27	-.35	.005 .0
	2.981	.11	.10	.01	.57	.4	.068	.482	1.09	-.03	-.04	.05	
	.07	.00	.00	.00	.00		8						
2328	60 NF-1 FK-1		8158	.020	1.0		.037	.032	-.003	1.85	1.60	-.15	.004 .2
	2.443	.11	.10	.01	.09	2.9	.049	2.451	.06	-.05	-.04	.00	.06
	-.01	-.01	.00	.01		8							
2329	61 NF-1 ML-1		6657	.018	1.0		.006	.008	-.005	.33	.44	-.28	.006 .3
	2.071	.11	.10	.01	.09	.7	.011	.621	.50	-.01	-.01	.01	
	.02	.00	.00	.00	.01		8						
2330	62 NF-1 MW-1		6832	.016	1.0		.012	.019	-.008	.75	1.19	-.50	.004 .3
	2.150	.11	.10	.01	.08	1.8	.024	1.491	.36	-.02	-.03	.01	.03
	-.01	-.01	.00	.01		8							
2331	90 NF-1 438N		10853	.050	1.0		.013	.039	.006	.26	.78	.12	.000 .0
	2.954	.11	.10	.01	.20	.9	.042	.831	.15	-.01	-.04	-.01	
	.04	.00	.00	.00	.00		8						
2332	91 NF-1 FB-1		9016	.050	1.0		.004	-.006	-.003	.08	-.12	-.06	.000 .0
	2.956	.11	.10	.01	.20	.0	.008	.156	.42	.00	.01	.00	
	.01	.00	.00	.00	.00		8						
2333	101 NF-1 FB-1		9016	.030	1.0		.004	.008	-.010	.13	.27	-.33	.000 .0
	2.870	.11	.10	.01	.12	.4	.013	.447	1.12	.00	-.01	.01	.01
	.00	.00	.00	.00		8							
2334	103 NF-1 SR-1		17172	.038	1.0		.008	.002	-.002	.21	.05	-.05	.000 .0
	2.853	.11	.10	.01	.16	.0	.008	.223	.24	-.01	.00	.00	.01
	.00	.00	.00	.00		8							
2335	123 NF-1 WP-1		8946	.044	1.0		-.013	-.034	-.014	-.30	-.77	-.32	.000 .0
	2.880	.11	.10	.01	.18	1.0	.039	.886	.38	.01	.04	.01	.04
	.00	.00	.00	.00		8							
2336	124 NF-1 DV-1		15054	.056	1.0		-.027	-.013	-.017	-.48	-.23	-.30	.000 .0
	2.923	.11	.10	.01	.23	.6	.034	.615	.57	.03	.01	.02	.04
	.00	.00	.00	.00		8							
2337													
2338	37 SR-1 438J		6279	.034	1.0		.007	-.023	-.010	.21	-.68	-.29	.000 .0
	2.882	.16	.13	.02	.14	.9	.026	.766	.42	-.01	.02	.01	
	.03	.00	.00	.00	.00		8						
2339	38 SR-1 HB-1		11441	.052	1.0		-.015	-.026	.002	-.29	-.50	.04	.010 .2
	2.602	.16	.13	.02	.22	.7	.030	.579	.07	.02	.03	.00	
	.03	.00	.00	.00	.00		8						
2340	39 SR-1 ST30		4514	.031	1.0		.001	-.012	-.003	.03	-.39	-.10	.011 .4
	1.961	.16	.13	.02	.15	.6	.012	.400	.25	.00	.02	.00	
	.02	.00	.01	.00	.01		8						
2341	94 SR-1 438P		15682	.046	1.0		.020	.033	-.016	.43	.72	-.35	.000 .0
	2.935	.16	.13	.02	.19	.9	.042	.908	.41	-.02	-.03	.02	
	.04	.00	.00	.00	.00		8						
2342	102 SR-1 FB-1		8619	.038	1.0		.010	.014	-.031	.26	.37	-.82	.000 .0
	2.856	.16	.13	.02	.16	.9	.035	.933	1.80	-.01	-.01	.03	.04
	.00	.00	.00	.00		8							
2343	103 SR-1 NF-1		17172	.038	1.0		-.008	-.002	.002	-.21	-.05	.05	.000 .0
	2.853	.16	.13	.02	.16	.0	.008	.223	.24	.01	.00	.00	.01

	.00	.00	.00	.00	8								
2344	105 SR-1 438J	6279	.036	1.0	.004	-.021	.003	.11	-.58	.08	.000	.0	
	2.897	.16	.13	.02	.15	.7	.022	.600	.14	.00	.02		
	.00	.00	.00	.00	8								
2345	106 SR-1 438J	6279	.037	1.0	-.008	-.008	-.004	-.22	-.22	-.11	.000	.0	
	2.898	.16	.13	.02	.15	.3	.012	.324	.35	.01	.01	.01	
	.00	.00	.00	.00	8								
2346	107 SR-1 FB-1	8619	.045	1.0	-.015	.017	-.019	-.33	.38	-.42	.000	.0	
	2.901	.16	.13	.02	.18	.6	.030	.657	.84	.01	-.02	.03	
	.00	.00	.00	.00	8								
2347	108 SR-1 RD-1	11128	.035	1.0	-.013	-.009	.022	-.37	-.26	.63	.000	.0	
	2.829	.16	.13	.02	.15	.6	.027	.774	1.39	.01	.01	-.02	
	.00	.00	.00	.00	8								
2348	109 SR-1 RD-1	11128	.066	1.0	-.003	-.005	-.004	-.05	-.08	-.06	.000	.0	
	2.952	.16	.13	.02	.27	.0	.007	.107	.69	.00	.01	.00	
	.00	.00	.00	.00	8								
2349	110 SR-1 RD-1	11128	.037	1.0	.003	-.004	.044	.08	-.11	1.19	.000	.0	
	2.830	.16	.13	.02	.15	1.2	.044	1.197	8.80	.00	.01	-.05	
	.00	.00	.00	.00	8								
2350	111 SR-1 WW-1	11457	.029	1.0	.002	.001	.009	.07	.03	.31	.000	.0	
	2.673	.16	.13	.02	.12	.3	.009	.320	4.02	.00	.00	-.01	
	.00	.00	.00	.00	8								
2351	130 SR-1 WW-1	11457	.044	1.0	.000	-.005	-.010	.00	-.11	-.23	.000	.0	
	2.865	.16	.13	.02	.18	.3	.011	.254	2.00	.00	.01	.01	
	.00	.00	.00	.00	8								
2352													
2353	34 438J HB-1	5673	.038	1.0	-.024	-.002	.013	-.63	-.05	.34	.011	.3	
	2.303	.28	.20	.01	.17	.8	.027	.720	.54	.03	.00	-.02	
	.04	.01	.00	.00	.01	8							
2354	37 438J SR-1	6279	.034	1.0	-.007	.023	.010	-.21	.68	.29	.000	.0	
	2.882	.28	.20	.01	.14	.9	.026	.766	.42	.01	-.02	-.01	
	.03	.00	.00	.00	.00	8							
2355	41 438J ST30	8227	.033	1.0	-.006	.015	.003	-.18	.45	.09	.009	.3	
	2.142	.28	.20	.01	.16	.8	.016	.498	.19	.01	-.02	.00	
	.02	.00	-.01	.00	.01	8							
2356	92 438J WW-1	13092	.062	1.0	-.020	.017	-.017	-.32	.27	-.27	.000	.0	
	2.934	.28	.20	.01	.25	.5	.031	.504	.65	.02	-.02	.02	
	.03	.00	.00	.00	.00	8							
2357	104 438J RD-1	9022	.041	1.0	-.015	-.002	.017	-.37	-.05	.41	.000	.0	
	2.889	.28	.20	.01	.17	.4	.023	.555	1.12	.01	.00	-.02	
	.00	.00	.00	.00	8								
2358	105 438J SR-1	6279	.036	1.0	-.004	.021	-.003	-.11	.58	-.08	.000	.0	
	2.897	.28	.20	.01	.15	.7	.022	.600	.14	.00	-.02	.00	
	.00	.00	.00	.00	8								
2359	106 438J SR-1	6279	.037	1.0	.008	.008	.004	.22	.22	.11	.000	.0	
	2.898	.28	.20	.01	.15	.3	.012	.324	.35	-.01	-.01	.00	
	.00	.00	.00	.00	8								
2360													
2361	16 RD-1 HB-1	7387	.047	1.0	.014	.008	-.012	.30	.17	-.26	.010	.2	
	2.494	.10	.08	.01	.21	.4	.020	.428	.74	-.02	-.01	.01	
	.02	.00	.00	.00	.00	8							
2362	30 RD-1 QC-1	7719	.024	1.0	.014	-.009	.035	.58	-.38	1.46	.004	.2	
	2.537	.10	.08	.01	.11	1.5	.039	1.615	2.10	-.02	.01	-.04	
	.05	.00	.00	-.01	.01	8							
2363	32 RD-1 MT-1	7925	.051	1.0	.011	.003	.013	.22	.06	.25	.012	.2	
	2.496	.10	.08	.01	.22	.3	.017	.339	1.14	-.01	.00	-.01	
	.02	.00	.00	.00	.00	8							
2364	95 RD-1 SAVN	13770	.047	1.0	-.014	-.021	-.025	-.30	-.45	-.53	.000	.0	
	2.901	.10	.08	.01	.19	.8	.036	.756	.99	.01	.02	.03	
	.04	.00	.00	.00	.00	8							
2365	104 RD-1 438J	9022	.041	1.0	.015	.002	-.017	.37	.05	-.41	.000	.0	
	2.889	.10	.08	.01	.17	.4	.023	.555	1.12	-.01	.00	.02	
	.00	.00	.00	.00	8								
2366	108 RD-1 SR-1	11128	.035	1.0	.013	.009	-.022	.37	.26	-.63	.000	.0	
	2.829	.10	.08	.01	.15	.6	.027	.774	1.39	-.01	-.01	.02	
	.00	.00	.00	.00	8								

2367	109 RD-1 SR-1	11128	.066	1.0	.003	.005	.004	.05	.08	.06	.000	.0
	2.952 .10	.08	.01	.27 .0	.007	.107	.69	.00	-.01	.00	.01	
	.00 .00	.00	.00	8								
2368	110 RD-1 SR-1	11128	.037	1.0	-.003	.004	-.044	-.08	.11	-1.19	.000	.0
	2.830 .10	.08	.01	.15 1.2	.044	1.197	8.80	.00	-.01	.05	.05	
	.00 .00	.00	.00	8								
2369	126 RD-1 438G	9161	.046	1.0	-.015	-.014	.034	-.33	-.30	.74	.000	.0
	2.904 .10	.08	.01	.19 .7	.040	.863	1.66	.01	.01	-.04	.04	
	.00 .00	.00	.00	8								
2370	129 RD-1 WW-1	7013	.036	1.0	-.006	.013	.001	-.17	.36	.03	.000	.0
	2.747 .10	.08	.01	.15 .4	.014	.399	.07	.01	-.01	.00	.01	
	.00 .00	.00	.00	8								
2371	131 RD-1 438G	9161	.042	1.0	.005	-.005	.011	.12	-.12	.26	.000	.0
	2.900 .10	.08	.01	.17 .3	.013	.311	1.56	-.01	.01	-.01	.01	
	.00 .00	.00	.00	8								
2372												
2373	92 WW-1 438J	13092	.062	1.0	.020	-.017	.017	.32	-.27	.27	.000	.0
	2.934 .06	.08	.07	.25 .5	.031	.504	.65	-.02	.02	-.02		
	.03 .00	.00	.00	.00	8							
2374	111 WW-1 SR-1	11457	.029	1.0	-.002	-.001	-.009	-.07	-.03	-.31	.000	.0
	2.673 .06	.08	.07	.12 .3	.009	.320	4.02	.00	.00	.01	.01	
	.00 .00	.00	.00	8								
2375	115 WW-1 DH-1	7199	.038	1.0	.004	.023	-.007	.11	.61	-.18	.000	.0
	2.732 .06	.08	.07	.16 .8	.024	.641	.30	.00	-.02	.01	.03	
	.00 .00	.00	.00	8								
2376	117 WW-1 SAVN	14940	.035	1.0	-.015	-.018	.009	-.43	-.51	.26	.000	.0
	2.737 .06	.08	.07	.15 .7	.025	.717	.38	.02	.02	-.01	.03	
	.00 .00	.00	.00	8								
2377	127 WW-1 438G	15982	.051	1.0	.012	.022	-.002	.24	.43	-.04	.000	.0
	2.896 .06	.08	.07	.21 .5	.025	.493	.08	-.01	-.02	.00	.03	
	.00 .00	.00	.00	8								
2378	129 WW-1 RD-1	7013	.036	1.0	.006	-.013	-.001	.17	-.36	-.03	.000	.0
	2.747 .06	.08	.07	.15 .4	.014	.399	.07	-.01	.01	.00	.01	
	.00 .00	.00	.00	8								
2379	130 WW-1 SR-1	11457	.044	1.0	.000	.005	.010	.00	.11	.23	.000	.0
	2.865 .06	.08	.07	.18 .3	.011	.254	2.00	.00	-.01	-.01	.01	
	.00 .00	.00	.00	8								
2380												
2381	97 0002 DV-1	7413	.036	1.0	-.001	.009	-.021	-.03	.25	-.58	.000	.0
	2.859 .10	.07	.01	.15 .6	.023	.635	2.32	.00	-.01	.02		
	.03 .00	.00	.00	.00	8							
2382	98 0002 DH-1	4219	.030	1.0	.007	.003	.012	.23	.10	.40	.000	.0
	2.732 .10	.07	.01	.13 .4	.014	.474	1.58	-.01	.00	-.01		
	.02 .00	.00	.00	.00	8							
2383	99 0002 BK-1	7137	.031	1.0	.001	-.001	-.004	.03	-.03	-.13	.000	.0
	2.809 .10	.07	.01	.13 .0	.004	.137	2.83	.00	.00	.00		
	.00 .00	.00	.00	.00	8							
2384	100 0002 WL-1	5670	.035	1.0	.006	.006	.004	.17	.17	.11	.000	.0
	2.707 .10	.07	.01	.15 .3	.009	.268	.47	-.01	-.01	.00	.01	
	.00 .00	.00	.00	8								
2385												
2386	98 DH-1 0002	4219	.030	1.0	-.007	-.003	-.012	-.23	-.10	-.40	.000	.0
	2.732 .11	.10	.01	.13 .4	.014	.474	1.58	.01	.00	.01		
	.02 .00	.00	.00	.00	8							
2387	112 DH-1 DV-1	5710	.033	1.0	.009	.021	.003	.27	.64	.09	.000	.0
	2.705 .11	.10	.01	.14 .8	.023	.698	.13	-.01	-.02	.00	.03	
	.00 .00	.00	.00	8								
2388	113 DH-1 SAVN	14940	.041	1.0	.007	-.004	.002	.17	-.10	.05	.000	.0
	2.828 .11	.10	.01	.17 .3	.008	.203	.25	-.01	.00	.00	.01	
	.00 .00	.00	.00	8								
2389	114 DH-1 BK-1	10217	.035	1.0	-.005	-.017	-.015	-.14	-.49	-.43	.000	.0
	2.750 .11	.10	.01	.15 .8	.023	.663	.85	.01	.02	.02	.03	
	.00 .00	.00	.00	8								
2390	115 DH-1 WW-1	7199	.038	1.0	-.004	-.023	.007	-.11	-.61	.18	.000	.0
	2.732 .11	.10	.01	.16 .8	.024	.641	.30	.00	.02	-.01	.03	
	.00 .00	.00	.00	8								

2391	118 DH-1 WP-1	10040	.033	1.0	.004	.019	.020	.12	.58	.61	.000	.0
	2.711 .11	.10	.01	.14	1.0	.028	.845	1.03	-.01	-.02	-.02	.03
	.00 .00	.00	.00		8							
2392												
2393	96 WL-1 DV-1	5872	.032	1.0	-.007	-.001	.007	-.22	-.03	.22	.000	.0
	2.648 .14	.11	.03	.14	.3	.010	.311	.99	.01	.00	-.01	
	.01 .00	.00	.00	.00		8						
2394	100 WL-1 0002	5670	.035	1.0	-.006	-.006	-.004	-.17	-.17	-.11	.000	.0
	2.707 .14	.11	.03	.15	.3	.009	.268	.47	.01	.01	.00	.01
	.00 .00	.00	.00		8							
2395	120 WL-1 438M	10820	.043	1.0	-.019	.017	.011	-.44	.40	.26	.000	.0
	2.797 .14	.11	.03	.18	.8	.028	.646	.43	.02	-.02	-.01	.03
	.00 .00	.00	.00		8							
2396	122 WL-1 DV-1	5872	.034	1.0	.025	-.007	-.011	.74	-.21	-.32	.000	.0
	2.709 .14	.11	.03	.15	.8	.028	.829	.42	-.03	.01	.01	.03
	.00 .00	.00	.00		8							
2397												
2398	2 BK-1 SAVN	7760	.012	1.0	-.001	-.002	.002	-.08	-.17	.17	.000	.0
	2.489 .13	.09	.02	.06	.0	.003	.250	.89	.00	.00	.00	
	.00 .00	.00	.00	.00		8						
2399	3 BK-1 QC-1	14263	.015	1.0	-.002	-.002	-.004	-.13	-.13	-.27	.003	.2
	2.258 .13	.09	.02	.07	.3	.005	.327	1.41	.00	.00	.01	
	.01 .00	.00	.00	.00		8						
2400	99 BK-1 0002	7137	.031	1.0	-.001	.001	.004	-.03	.03	.13	.000	.0
	2.809 .13	.09	.02	.13	.0	.004	.137	2.83	.00	.00	.00	
	.00 .00	.00	.00	.00		8						
2401	114 BK-1 DH-1	10217	.035	1.0	.005	.017	.015	.14	.49	.43	.000	.0
	2.750 .13	.09	.02	.15	.8	.023	.663	.85	-.01	-.02	-.02	.03
	.00 .00	.00	.00		8							
2402	116 BK-1 SAVN	7760	.030	1.0	-.004	-.011	-.006	-.13	-.37	-.20	.000	.0
	2.912 .13	.09	.02	.12	.5	.013	.438	.51	.00	.01	.01	.01
	.00 .00	.00	.00		8							
2403												
2404	51 DV-1 438M	12174	.081	1.0	-.045	.027	.005	-.56	.33	.06	.000	.0
	2.973 .13	.12	.01	.33	.8	.053	.651	.10	.04	-.03	-.01	
	.05 .00	.00	.00	.00		8						
2405	53 DV-1 438N	20940	.042	1.0	-.023	.025	-.011	-.55	.60	-.26	.000	.0
	2.898 .13	.12	.01	.17	1.0	.036	.850	.32	.02	-.03	.01	
	.04 .00	.00	.00	.00		8						
2406	66 DV-1 ML-1	9913	.032	1.0	.031	.001	-.025	.97	.03	-.78	.006	.2
	2.597 .13	.12	.01	.14	1.3	.040	1.245	.81	-.04	.00	.03	.05
	-.01 .00	.01	.01		8							
2407	70 DV-1 MW-1	15328	.045	1.0	-.004	-.015	.006	-.09	-.33	.13	.005	.1
	2.827 .13	.12	.01	.18	.4	.017	.370	.39	.00	.02	-.01	
	.02 .00	.00	.00	.00		8						
2408	96 DV-1 WL-1	5872	.032	1.0	.007	.001	-.007	.22	.03	-.22	.000	.0
	2.648 .13	.12	.01	.14	.3	.010	.311	.99	-.01	.00	.01	
	.01 .00	.00	.00	.00		8						
2409	97 DV-1 0002	7413	.036	1.0	.001	-.009	.021	.03	-.25	.58	.000	.0
	2.859 .13	.12	.01	.15	.6	.023	.635	2.32	.00	.01	-.02	
	.03 .00	.00	.00	.00		8						
2410	112 DV-1 DH-1	5710	.033	1.0	-.009	-.021	-.003	-.27	-.64	-.09	.000	.0
	2.705 .13	.12	.01	.14	.8	.023	.698	.13	.01	.02	.00	.03
	.00 .00	.00	.00		8							
2411	119 DV-1 WP-1	9175	.040	1.0	.011	.025	.005	.27	.63	.13	.000	.0
	2.833 .13	.12	.01	.17	.8	.028	.694	.18	-.01	-.03	-.01	.03
	.00 .00	.00	.00		8							
2412	121 DV-1 438M	12174	.057	1.0	-.026	.028	-.008	-.46	.49	-.14	.000	.0
	2.944 .13	.12	.01	.23	.7	.039	.685	.21	.03	-.03	.01	.04
	.00 .00	.00	.00		8							
2413	122 DV-1 WL-1	5872	.034	1.0	-.025	.007	.011	-.74	.21	.32	.000	.0
	2.709 .13	.12	.01	.15	.8	.028	.829	.42	.03	-.01	-.01	.03
	.00 .00	.00	.00		8							
2414	124 DV-1 NF-1	15054	.056	1.0	.027	.013	.017	.48	.23	.30	.000	.0
	2.923 .13	.12	.01	.23	.6	.034	.615	.57	-.03	-.01	-.02	.04
	.00 .00	.00	.00		8							

2415	125 DV-1 WP-1	9175	.041	1.0		.029	-.010	.004	.71	-.24	.10	.000	.0
	2.846 .13	.12	.01	.17	.8	.031	.755	.13	-.03	.01	-.01	.03	
	.00 .00	.00	.00		8								
2416													
2417	1 SAVN QC-1	8327	.008	1.0		-.003	.001	-.006	-.38	.13	-.75	.004	.5
	1.249 .11	.08	.01	.05	1.1	.007	.848	1.90	.01	.00	.01		
	.01 .00	.00	.01	.01		8							
2418	2 SAVN BK-1	7760	.012	1.0		.001	.002	-.002	.08	.17	-.17	.000	.0
	2.489 .11	.08	.01	.06	.0	.003	.250	.89	.00	.00	.00		
	.00 .00	.00	.00	.00		8							
2419	8 SAVN 438H	32270	.041	1.0		-.006	-.006	.017	-.15	-.15	.41	.000	.0
	2.912 .11	.08	.01	.17	.4	.019	.463	2.00	.01	.01	-.02		
	.02 .00	.00	.00	.00		8							
2420	9 SAVN CO-1	19309	.037	1.0		.001	.011	.016	.03	.30	.43	.008	.2
	2.370 .11	.08	.01	.17	.6	.019	.525	1.45	.00	-.01	-.02		
	.02 .00	.00	.00	.01		8							
2421	21 SAVN QC-1	8327	.037	1.0		.012	.003	-.001	.32	.08	-.03	.004	.1
	2.924 .11	.08	.01	.15	.3	.012	.335	.08	-.01	.00	.00		
	.01 .00	.00	.00	.00		8							
2422	22 SAVN MT-1	7606	.039	1.0		.007	-.007	.001	.18	-.18	.03	.012	.3
	2.286 .11	.08	.01	.18	.3	.010	.255	.10	-.01	.01	.00		
	.01 .00	.00	.00	.00		8							
2423	46 SAVN 438G	14689	.079	1.0		.044	-.020	.031	.56	-.25	.39	.000	.0
	2.978 .11	.08	.01	.32	.7	.057	.727	.64	-.04	.02	-.03		
	.06 .00	.00	.00	.00		8							
2424	47 SAVN QC-1	8327	.020	1.0		.019	.001	.019	.95	.05	.95	.004	.2
	2.726 .11	.08	.01	.08	1.3	.027	1.344	1.00	-.02	.00	-.02		
	.03 .00	.00	.00	.00		8							
2425	95 SAVN RD-1	13770	.047	1.0		.014	.021	.025	.30	.45	.53	.000	.0
	2.901 .11	.08	.01	.19	.8	.036	.756	.99	-.01	-.02	-.03		
	.04 .00	.00	.00	.00		8							
2426	113 SAVN DH-1	14940	.041	1.0		-.007	.004	-.002	-.17	.10	-.05	.000	.0
	2.828 .11	.08	.01	.17	.3	.008	.203	.25	.01	.00	.00	.01	
	.00 .00	.00	.00		8								
2427	116 SAVN BK-1	7760	.030	1.0		.004	.011	.006	.13	.37	.20	.000	.0
	2.912 .11	.08	.01	.12	.5	.013	.438	.51	.00	-.01	-.01	.01	
	.00 .00	.00	.00		8								
2428	117 SAVN WW-1	14940	.035	1.0		.015	.018	-.009	.43	.51	-.26	.000	.0
	2.737 .11	.08	.01	.15	.7	.025	.717	.38	-.02	-.02	.01	.03	
	.00 .00	.00	.00		8								
2429													
2430	50 WP-1 438M	19595	.037	1.0		-.014	-.001	-.022	-.38	-.03	-.59	.000	.0
	2.862 .09	.07	.01	.15	.6	.026	.705	1.57	.01	.00	.02		
	.03 .00	.00	.00	.00		8							
2431	52 WP-1 438N	18678	.030	1.0		-.017	.026	-.018	-.57	.87	-.60	.000	.0
	2.802 .09	.07	.01	.12	1.4	.036	1.197	.58	.02	-.03	.02		
	.04 .00	.00	.00	.00		8							
2432	65 WP-1 ML-1	8586	.031	1.0		.012	.026	.019	.39	.84	.61	.004	.1
	2.584 .09	.07	.01	.14	1.5	.034	1.109	.66	-.01	-.03	-.02		
	.04 .00	.00	.00	.01		8							
2433	87 WP-1 MW-1	13252	.073	1.0 *		-.103	.029	.170	-1.41	.40	2.33	.004	.1
	2.934 .09	.07	.01	.30	2.9	.201	2.752	1.59	.11	-.03	-.18		
	.21 .00	.00	-.01	.01		8							
2434	118 WP-1 DH-1	10040	.033	1.0		-.004	-.019	-.020	-.12	-.58	-.61	.000	.0
	2.711 .09	.07	.01	.14	1.0	.028	.845	1.03	.01	.02	.02	.03	
	.00 .00	.00	.00		8								
2435	119 WP-1 DV-1	9175	.040	1.0		-.011	-.025	-.005	-.27	-.63	-.13	.000	.0
	2.833 .09	.07	.01	.17	.8	.028	.694	.18	.01	.03	.01	.03	
	.00 .00	.00	.00		8								
2436	123 WP-1 NF-1	8946	.044	1.0		.013	.034	.014	.30	.77	.32	.000	.0
	2.880 .09	.07	.01	.18	1.0	.039	.886	.38	-.01	-.04	-.01	.04	
	.00 .00	.00	.00		8								
2437	125 WP-1 DV-1	9175	.041	1.0		-.029	.010	-.004	-.71	.24	-.10	.000	.0
	2.846 .09	.07	.01	.17	.8	.031	.755	.13	.03	-.01	.01	.03	
	.00 .00	.00	.00		8								
2438	128 WP-1 FB-1	8451	.034	1.0		.020	.012	-.027	.59	.35	-.79	.000	.0

	2.809	.09	.07	.01	.14	1.0	.036	1.049	1.16	-.02	-.01	.03	.04	
	.00	.00	.00	.00		8								
2439														
2440	50	438M	WP-1	19595	.037	1.0	.014	.001	.022	.38	.03	.59	.000	.0
	2.862	.12	.10	.03	.15	.6	.026	.705	1.57	-.01	.00	-.02		
	.03	.00	.00	.00	.00		8							
2441	51	438M	DV-1	12174	.081	1.0	.045	-.027	-.005	.56	-.33	-.06	.000	.0
	2.973	.12	.10	.03	.33	.8	.053	.651	.10	-.04	.03	.01		
	.05	.00	.00	.00	.00		8							
2442	83	438M	MW-1	16629	.022	1.0	.013	-.010	-.003	.59	-.45	-.14	.005	.2
	2.537	.12	.10	.03	.09	1.0	.017	.758	.18	-.01	.01	.00		
	.02	.00	.00	.00	.00		8							
2443	120	438M	WL-1	10820	.043	1.0	.019	-.017	-.011	.44	-.40	-.26	.000	.0
	2.797	.12	.10	.03	.18	.8	.028	.646	.43	-.02	.02	.01	.03	
	.00	.00	.00	.00		8								
2444	121	438M	DV-1	12174	.057	1.0	.026	-.028	.008	.46	-.49	.14	.000	.0
	2.944	.12	.10	.03	.23	.7	.039	.685	.21	-.03	.03	-.01	.04	
	.00	.00	.00	.00		8								
2445														
2446	6	438N	FK-1	8044	.031	1.0	-.004	-.018	-.005	-.13	-.58	-.16	.004	.1
	2.840	.18	.15	.05	.13	.7	.019	.616	.27	.01	.02	.01		
	.02	.00	.00	.00	.00		8							
2447	11	438N	MW-1	5735	.033	1.0	.003	-.045	-.015	.09	-1.36	-.45	.004	.1
	2.809	.18	.15	.05	.14	1.8	.048	1.440	.33	.00	.05	.02		
	.05	.00	.00	.00	.00		8							
2448	24	438N	BH-1	9406	.042	1.0	-.007	-.050	-.005	-.17	-1.19	-.12	.006	.1
	2.857	.18	.15	.05	.17	1.4	.051	1.208	.10	.01	.05	.00		
	.05	.00	.00	.00	.00		8							
2449	25	438N	FK-1	8044	.033	1.0	-.005	-.022	-.018	-.15	-.67	-.55	.004	.1
	2.852	.18	.15	.05	.14	1.2	.029	.875	.80	.01	.02	.02		
	.03	.00	.00	.00	.00		8							
2450	52	438N	WP-1	18678	.030	1.0	.017	-.026	.018	.57	-.87	.60	.000	.0
	2.802	.18	.15	.05	.12	1.4	.036	1.197	.58	-.02	.03	-.02		
	.04	.00	.00	.00	.00		8							
2451	53	438N	DV-1	20940	.042	1.0	.023	-.025	.011	.55	-.60	.26	.000	.0
	2.898	.18	.15	.05	.17	1.0	.036	.850	.32	-.02	.03	-.01		
	.04	.00	.00	.00	.00		8							
2452	54	438N	MW-1	5735	.040	1.0	.005	-.047	-.013	.13	-1.18	-.33	.004	.1
	2.863	.18	.15	.05	.16	1.3	.049	1.226	.28	-.01	.05	.01		
	.05	.00	.00	.00	.00		8							
2453	71	438N	BH-1	9406	.047	1.0	.020	-.034	-.013	.43	-.72	-.28	.006	.1
	2.880	.18	.15	.05	.19	1.2	.042	.884	.33	-.02	.04	.01		
	.04	.00	.00	.00	.00		8							
2454	72	438N	CENT	22542	.024	1.0	-.019	-.010	.008	-.79	-.42	.33	.008	.3
	2.468	.18	.15	.05	.11	1.0	.023	.955	.37	.02	.01	-.01		
	.03	.00	.00	.00	.00		8							
2455	76	438N	FK-1	8044	.031	1.0	.025	-.035	.000	.81	-1.13	.00	.004	.1
	2.826	.18	.15	.05	.13	1.5	.043	1.387	.00	-.03	.04	.00		
	.04	.00	.00	.00	.00		8							
2456	80	438N	PV-1	15458	.041	1.0	-.055	.020	.052	-1.34	.49	1.27	.005	.1
	2.841	.18	.15	.05	.17	2.0	.078	1.909	.89	.06	-.02	-.06		
	.08	.00	.00	.00	.01		8							
2457	85	438N	CENT	22542	.083	1.0	-.015	.027	-.019	-.18	.33	-.23	.008	.1
	2.907	.18	.15	.05	.34	.8	.036	.437	.62	.02	-.03	.02		
	.04	.00	.00	.00	.00		8							
2458	89	438N	FB-1	19648	.050	1.0	-.006	-.025	.004	-.12	-.50	.08	.000	.0
	2.958	.18	.15	.05	.20	.5	.026	.520	.16	.01	.03	.00		
	.03	.00	.00	.00	.00		8							
2459	90	438N	NF-1	10853	.050	1.0	-.013	-.039	-.006	-.26	-.78	-.12	.000	.0
	2.954	.18	.15	.05	.20	.9	.042	.831	.15	.01	.04	.01		
	.04	.00	.00	.00	.00		8							
2460														
2461	4	438G	CO-1	13556	.043	1.0	-.006	.004	-.010	-.14	.09	-.23	.010	.2
	2.539	.16	.13	.04	.19	.3	.012	.287	1.39	.01	-.01	.01		
	.01	.00	.00	.00	.00		8							
2462	33	438G	HB-1	7198	.039	1.0	.008	.021	-.004	.21	.54	-.10	.012	.3

[illegible]