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 4.0 MM 1ST-ORDER/CLASS II

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
3	KT0869	RV 1 NWPRR		0.000	357.82840	357.82840	0	39 33 16	123 25 15
4	KT0870	S 103 ✓		0.121	357.04806	357.04804	2	39 33 18	123 25 11
5	KT0871	G 1083		0.195	356.75370	356.75366	2	39 33 20	123 25 09
6	KT0872	F 1083		1.146	361.39430	361.39425	2	39 33 21	123 25 43
7	KT0873	Q 103 CDH		1.279	360.19836	360.19833	2	39 33 19	123 25 43
8	KT0874	E 1083		1.614	366.42817	366.42809	2	39 33 24	123 25 51
9	KT0875	N 1081		2.400	377.90030	377.89999	2	39 33 49	123 25 58
10	KT0876	P 103	)	2.549	374.40798	374.40769	2	39 33 47	123 25 51
9	KT0875	N 1081	*	2.400	377.90030	377.89999	2	39 33 49	123 25 58
11		TBM 24		2.921	380.83681	380.83635	2	39 34 05	123 26 05*
12	KT0877	P 1081		3.470	382.00949	382.00887	2	39 34 21	123 26 12
13		TBM 23		4.124	389.48865	389.48785	3	39 34 39	123 26 25*
14	KT0878	Q 1081		4.637	397.03967	397.03873	2	39 34 54	123 26 36
15	KT0879	R 1081		5.377	391.78353	391.78239	2	39 35 14	123 26 53
16	KT0880	N 103 CDH	)	5.517	392.65619	392.65503	2	39 35 16	123 26 51
15	KT0879	R 1081	*	5.377	391.78353	391.78239	2	39 35 14	123 26 53
17		TBM 11		6.093	402.16422	402.16287	2	39 35 35	123 27 03*
18	KT0881	S 1081		6.694	411.00064	410.99911	2	39 35 52	123 27 12
19	KT0883	M 103 RESET 1959		7.186	416.98836	416.98667	3	39 36 07	123 27 09
20		TBM 10		7.667	428.46694	428.46511	2	39 36 20	123 27 17*
21	KT0884	T 1081		8.132	439.89977	439.89781	2	39 36 32	123 27 24
22		TBM 9		8.308	444.71213	444.71011	2	39 36 37	123 27 26*
23	KT0885	U 1081		8.920	465.51825	465.51602	2	39 36 56	123 27 31
24	KT0887	L 103 CDH RESET 1959		9.586	495.57618	495.57379	2	39 37 09	123 27 47
25		TBM 8		9.978	511.30594	511.30341	2	39 37 20	123 27 46*
26	KT0888	V 1081		10.321	514.36466	514.36200	2	39 37 30	123 27 46
27		TBM 7		10.854	521.24076	521.23792	3	39 37 44	123 27 52*
28	KT0889	W 1081		11.419	519.19081	519.18777	2	39 37 59	123 27 58
29	KT0890	K 103		12.147	520.77135	520.76801	2	39 38 22	123 28 09
30		TBM 5		12.645	519.93353	519.93000	2	39 38 36	123 28 19*
31	KT0891	X 1081		13.131	511.51976	511.51605	3	39 38 50	123 28 29
32		TBM 6		13.652	513.55245	513.54853	2	39 39 06	123 28 29*
33		TBM 4		14.086	511.66850	511.66440	2	39 39 20	123 28 30*
34	KT0892	J 103 CDH		14.752	507.87996	507.87559	2	39 39 41	123 28 30
35		TBM 2		15.497	506.21262	506.20794	2	39 40 05	123 28 29*

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36	KTO893	M 635		16.069	509.74729	509.74237	2	39 40 24	123 28 28
37		TBM 3		16.784	506.24970	506.24450	4	39 40 46	123 28 37*
38	KTO894	Y 1081		17.576	505.47522	505.46971	2	39 41 10	123 28 47
39	KTO896	Z 1081		17.952	502.31157	502.30601	2	39 41 14	123 28 53
40		TBM 1		18.120	503.06338	503.05775	2	39 41 20	123 28 54*
41	KTO897	LAYTONVILLE	)	18.375	537.80146	537.79584	3	39 41 19	123 28 50
42	KTO898	LAYTONVILLE RM 2	)	18.387	537.62850	537.62287	2	39 41 20	123 28 50
43	KTO899	LAYTONVILLE RM 1	)	18.400	538.47672	538.47110	2	39 41 19	123 28 50
40		TBM 1	*	18.120	503.06338	503.05775	2	39 41 20	123 28 54*
44		TBM 12		18.833	502.56357	502.55764	2	39 41 43	123 29 00*
45	KT0900	A 1082		19.153	510.04445	510.03838	2	39 41 54	123 29 03
46	KT0901	C 1082		19.860	510.90203	510.89568	3	39 42 16	123 29 12
47		TBM 13		20.241	512.51872	512.51222	2	39 42 28	123 29 16*
48	KT0902	F 103		20.798	503.58234	503.57562	2	39 42 45	123 29 23
49		TBM 14		21.432	485.32943	485.32256	3	39 42 57	123 29 39*
50	KT0903	B 1082		22.109	473.15767	473.15064	2	39 43 10	123 29 57
51		TBM 15		22.837	463.83209	463.82480	2	39 43 32	123 30 10*
52	KT1458	D 1082		23.386	463.12436	463.11688	2	39 43 48	123 30 20
53		TBM 16		24.154	460.56779	460.56008	2	39 44 07	123 30 36*
54	KT1459	E 103		24.457	460.21982	460.21202	2	39 44 15	123 30 43
55		TBM 17		25.156	456.79536	456.78740	2	39 44 29	123 31 01*
56	KT1460	E 1082		25.854	453.41645	453.40834	2	39 44 42	123 31 18
57	KT1461	F 1082		26.505	455.18716	455.17890	2	39 44 55	123 31 45
58	KT1462	D 103 CDH		27.197	470.31850	470.31003	2	39 45 13	123 32 06
59	KT1463	G 1082 CAGS		27.307	468.42793	468.41947	2	39 45 12	123 32 03
60		TBM 18		27.778	478.46048	478.45186	2	39 45 25	123 32 10*
61	KT1464	H 1082		28.208	464.41948	464.41072	2	39 45 37	123 32 17
62		TBM 19		28.653	444.70621	444.69731	3	39 45 50	123 32 25*
63	KT1465	GAGING STA USGS	)	28.724	444.99619	444.98727	2	39 45 51	123 32 29
62		TBM 19	*	28.653	444.70621	444.69731	3	39 45 50	123 32 25*
64	KT1466	C 103		29.237	456.57722	456.56813	2	39 46 06	123 32 35
65		TBM 20		29.536	472.30030	472.29111	2	39 46 14	123 32 37*
66	KT1467	J 1082		29.934	482.04078	482.03146	2	39 46 25	123 32 40
67		TBM 21		30.468	487.52570	487.51617	2	39 46 42	123 32 36*
68	KT1468	K 1082		31.030	523.35358	523.34382	2	39 47 00	123 32 31

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED	NORMAL	RUNS	LATITUDE			LONGITUDE		
					HT METERS	ORTHO HT METERS		DD	MM	SS	DDD	MM	SS
69		TBM 22		31.412	543.24945	543.23954	2	39	47	11	123	32	33*
70	KT1469	B 103 CDH		31.866	528.73027	528.72018	2	39	47	24	123	32	35
71		TBM 25		32.221	508.63045	508.62020	2	39	47	36	123	32	32*
72	KT1470	L 1082		32.728	481.36863	481.35817	3	39	47	53	123	32	28
73	KT1471	Z 635		33.581	473.88399	473.87327	2	39	48	15	123	32	33
74		TBM 26		34.326	458.21745	458.20655	2	39	48	30	123	32	57*
75	KT1472	A 103		35.071	448.00630	447.99522	2	39	48	46	123	33	21
76	KT1473	M 1082		35.838	442.33623	442.32494	2	39	49	05	123	33	44
77		TBM 28		36.584	434.65075	434.63925	2	39	49	24	123	34	02*
78	KT1474	B 623		37.213	428.20551	428.19384	2	39	49	40	123	34	18
79		TBM 27		37.876	428.61010	428.59842	2	39	49	41	123	34	45*
80	KT1475	N 1082		38.548	424.66243	424.65074	2	39	49	42	123	35	13
81		TBM 29		38.862	420.12158	420.10991	2	39	49	40	123	35	23*
82	KT1478	P 1082		39.411	404.93277	404.92113	2	39	49	37	123	35	40
83		TBM 30		40.114	406.38560	406.37395	2	39	49	38	123	36	03*
84	KT1479	Q 1082		40.586	399.88677	399.87512	2	39	49	38	123	36	18
85		TBM 33		41.209	382.41614	382.40441	2	39	49	46	123	36	39*
86	KT1480	R 1082		41.925	373.52712	373.51530	2	39	49	56	123	37	04
87		TBM 31		42.454	400.07341	400.06157	2	39	49	58	123	37	23*
88		TBM 32		42.875	412.20934	412.19748	2	39	50	00	123	37	38*
89	KT1481	S 1082		43.252	410.15873	410.14686	2	39	50	01	123	37	52
90		TBM 34		44.199	406.40032	406.38847	2	39	49	59	123	38	31*
91		TBM 35		44.505	405.55970	405.54786	2	39	49	59	123	38	44*
92	KT1482	T 1082		44.921	399.83983	399.82800	2	39	49	58	123	39	01
93		TBM 36		45.433	397.77284	397.76108	2	39	49	51	123	39	12*
94	KT1483	U 1082		46.038	396.49709	396.48542	2	39	49	42	123	39	26
95		TBM 37		46.920	393.76604	393.75442	2	39	49	37	123	39	58*
96		TBM 38		47.317	392.50302	392.49142	2	39	49	35	123	40	12*
97	KT1484	V 102		47.583	391.01493	391.00335	2	39	49	33	123	40	22
98		TBM 39		48.064	388.35191	388.34020	3	39	49	46	123	40	28*
99	KT1485	V 1082		48.709	382.61061	382.59873	2	39	50	03	123	40	36
100		TBM 41		49.251	381.75334	381.74136	2	39	50	13	123	40	50*
101		TBM 40		49.824	378.99712	378.98503	2	39	50	24	123	41	05*
102	KT1486	W 1082		50.374	361.56625	361.55406	3	39	50	35	123	41	20
103		TBM 42		50.676	344.60466	344.59242	2	39	50	40	123	41	28*

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104	KT1487	X 1082 CAGS		51.200	328.13155	328.11923	2	39 50 49	123 41 43
105		TBM 43		51.859	325.79168	325.77932	2	39 50 54	123 42 08*
106	KT1488	T 102		52.305	343.18843	343.17604	3	39 50 58	123 42 25
107	KT1489	LEGGETT RM 1	)	52.427	350.16566	350.15326	2	39 50 59	123 42 28
108	KT1490	LEGGETT	)	52.438	350.51197	350.49956	2	39 51 00	123 42 28
109	KT1491	LEGGETT RM 2	)	52.452	350.11829	350.10589	2	39 50 59	123 42 28
106	KT1488	T 102	*	52.305	343.18843	343.17604	3	39 50 58	123 42 25
110	KT1492	LEGGETT AZ		52.833	353.91944	353.90704	2	39 50 59	123 42 48
111		TBM 44		53.263	366.28042	366.26791	2	39 51 11	123 42 53*
112	KT1493	Y 1082		53.705	338.81491	338.80229	2	39 51 23	123 42 58
113		TBM 45		54.039	322.11061	322.09793	2	39 51 30	123 42 56*
114		TBM 46		54.496	297.08510	297.07234	2	39 51 40	123 42 52*
115	KT1494	Z 1082		54.796	289.85447	289.84166	2	39 51 47	123 42 50
116		TBM 47		55.436	286.58708	286.57411	2	39 52 09	123 42 45*
117		TBM 49		55.880	290.13536	290.12228	2	39 52 24	123 42 42*
118	KT1495	A 1083		56.286	287.64154	287.62836	2	39 52 38	123 42 39
119		TBM 48		56.736	285.96399	285.95081	2	39 52 38	123 42 53*
120	KT1497	R 102 RESET 1948		57.283	280.93011	280.91693	2	39 52 39	123 43 11
121	KT1498	B 1083		57.528	277.28571	277.27251	2	39 52 42	123 43 30
122		TBM 50		58.031	269.69847	269.68524	3	39 52 47	123 43 45*
123	KT1499	C 1083		58.406	253.41178	253.39853	2	39 52 50	123 43 56
124		TBM 51		58.804	229.75416	229.74084	2	39 53 02	123 44 04*
125	KT1500	D 1083		58.959	221.37033	221.35698	2	39 53 07	123 44 07
126		TBM 52		59.626	225.18229	225.16890	2	39 53 14	123 44 26*
127	KT1501	Q 102 CDH		60.293	222.79811	222.78468	2	39 53 22	123 44 46
128		TBM 53		61.154	229.25915	229.24561	2	39 53 41	123 44 54*
129	KT1502	P 102		61.779	203.04469	203.03107	2	39 53 55	123 45 00
130		TBM 54		62.411	215.06943	215.05576	2	39 54 05	123 44 59*
131	KT1503	H 1083		62.709	218.92636	218.91266	2	39 54 10	123 44 59
132		TBM 55		63.212	219.08403	219.07027	2	39 54 20	123 45 03*
133	KT1504	J 1083		63.508	204.62358	204.60979	4	39 54 26	123 45 05
134		TBM 56		63.788	221.40129	221.38753	2	39 54 21	123 45 14*
135	KT1505	N 102		64.013	234.83925	234.82551	2	39 54 17	123 45 22
136		TBM 57		64.595	243.72507	243.71126	2	39 54 29	123 45 30*
137		TBM 58		65.056	243.54288	243.52901	2	39 54 39	123 45 36*

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
138	KT1506	K 1083		65.936	251.13760	251.12361	2	39 54 58	123 45 48
139	KT1507	M 102 CDH		66.531	264.26316	264.24909	2	39 55 10	123 45 51
140		TBM 59		66.932	252.88591	252.87179	2	39 55 17	123 45 40*
141	KT1508	672.13 CDH		67.471	221.18027	221.16609	2	39 55 27	123 45 26
142	KT1509	L 1083		68.039	199.70210	199.68784	2	39 55 42	123 45 30
143		TBM 60		68.556	205.53831	205.52401	2	39 55 50	123 45 46*
144	KT1510	M 1083		69.123	218.54323	218.52888	2	39 55 59	123 46 04
145		TBM 61		69.827	235.71821	235.70376	2	39 56 16	123 46 23*
146	KT1511	K 102 CDH		70.670	246.13779	246.12321	2	39 56 37	123 46 46
147		TBM 62		71.085	235.23626	235.22160	3	39 56 50	123 46 45*
148	KT1512	N 1083		71.510	206.06735	206.05262	2	39 57 03	123 46 44
149	KT1513	P 1083		72.124	186.35732	186.34254	2	39 57 14	123 46 28
150		TBM 63		72.689	217.86362	217.84876	2	39 57 31	123 46 37*
151	KT1515	J 102 RESET 1947		72.907	229.21842	229.20352	3	39 57 37	123 46 41
152		TBM 64		73.332	226.12100	226.10607	2	39 57 42	123 46 56*
153	KT1516	Q 1083		73.789	232.48410	232.46914	3	39 57 48	123 47 13
154	KT1517	R 1083		74.609	226.47547	226.46048	2	39 57 54	123 47 45
155	KT1518	S 1083		75.135	199.38504	199.36999	3	39 58 05	123 47 53
156		TBM 65		75.679	166.49098	166.47585	2	39 58 22	123 47 58*
157	KT1519	H 102 CDH		76.146	162.74645	162.73126	2	39 58 37	123 48 02
158	KT1520	T 1083		76.957	176.59428	176.57900	3	39 58 58	123 48 01
159		TBM 66		77.310	173.73048	173.71517	2	39 59 06	123 47 50*
160		TBM 67		77.593	171.06630	171.05096	2	39 59 12	123 47 41*
161	KT1522	U 1083		78.349	155.38884	155.37343	2	39 59 28	123 47 18
162		TBM 68		79.187	149.77317	149.75768	2	39 59 48	123 47 13*
163		TBM 69		79.680	145.85427	145.83874	2	39 59 59	123 47 10*
164	LU1239	V 1083		79.844	144.90321	144.88767	2	40 00 03	123 47 09
165		TBM 70		80.666	162.78763	162.77202	2	40 00 22	123 47 16*
166	LU1240	W 1083		81.326	138.83496	138.81929	2	40 00 37	123 47 22
167	LU1241	E 102 CDH		81.972	142.19246	142.17671	2	40 01 01	123 47 23
168	LU1242	X 1083		82.600	141.22489	141.20909	2	40 01 16	123 47 27
169		TBM 71		83.457	156.95772	156.94182	2	40 01 43	123 47 22*
170	LU1243	Y 1083		84.344	153.98920	153.97319	2	40 02 10	123 47 17
171		TBM 72		85.132	147.36035	147.34435	3	40 02 07	123 46 50*
172	LU1244	Z 1083		85.743	135.95519	135.93920	2	40 02 04	123 46 29

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173		TBM 73		86.077	136.52892	136.51290	2	40 02 12	123 46 34*
174	LU1245	A 1084		86.728	128.33169	128.31562	2	40 02 28	123 46 43
175		TBM 74		87.535	125.35672	125.34059	2	40 02 45	123 47 06*
176	LU1246	B 102 CDH		88.299	127.07926	127.06308	2	40 03 02	123 47 27
177		TBM 75		88.841	139.89234	139.87612	2	40 03 14	123 47 17*
178	LU1247	A 102		89.493	120.78424	120.76797	2	40 03 28	123 47 06
179	LU1248	B 1084		90.407	118.00345	117.98714	2	40 03 41	123 46 39
180		TBM 76		91.075	116.72777	116.71143	2	40 03 52	123 47 00*
181	LU1250	C 1084		91.804	122.71879	122.70241	2	40 04 05	123 47 22
182		TBM 77		92.028	136.00061	135.98421	2	40 04 12	123 47 21*
183		TBM 79		92.347	158.16230	158.14586	2	40 04 22	123 47 21*
184		TBM 78		92.803	192.05010	192.03360	2	40 04 36	123 47 20*
185	LU1249	Z 101	)	92.934	197.90735	197.89086	2	40 04 34	123 47 22
184		TBM 78	*	92.803	192.05010	192.03360	2	40 04 36	123 47 20*
186		TBM 80		93.027	209.18596	209.16943	2	40 04 43	123 47 19*
187	LU1251	D 1084		93.588	228.10632	228.08969	2	40 05 00	123 47 18
188	LU1252	E 1084		94.591	206.44808	206.43127	2	40 05 33	123 47 26
189	LU1253	Y 101 CDH		95.193	172.97910	172.96221	2	40 05 49	123 47 36
190	LU1254	F 1084		95.553	163.14209	163.12516	2	40 05 59	123 47 43
191	LU1255	XX 101		95.869	162.51195	162.49500	2	40 06 04	123 47 37
192	LU1256	GARBERVILLE RM 1		95.964	162.40612	162.38919	2	40 05 59	123 47 36
193	LU1257	G 1084		96.535	135.47557	135.45856	2	40 06 21	123 47 39
194	LU1259	X 101 RESET 1963		96.669	128.65642	128.63940	2	40 06 24	123 47 38
195		TBM 82		96.989	120.23730	120.22025	2	40 06 32	123 47 37*
196	LU1260	H 1084		97.545	111.62876	111.61167	3	40 06 47	123 47 35
197	LU1262	W 101		98.251	104.09606	104.07894	2	40 06 59	123 47 57
198		TBM 81		99.106	106.53505	106.51794	2	40 06 55	123 48 32*
199	LU1261	J 1084		99.340	120.18049	120.16338	2	40 06 54	123 48 42
200		TBM 83		99.861	151.14993	151.13278	2	40 07 05	123 49 01*
201	LU1263	K 1084		100.518	163.85613	163.83892	3	40 07 19	123 49 25
202	LU1264	L 1084		101.053	166.85233	166.83506	4	40 07 34	123 49 19
203		TBM 84		101.608	134.29424	134.27692	2	40 07 47	123 49 06*
204	LU1265	M 1084		101.882	118.01183	117.99449	2	40 07 53	123 48 59
205	LU1266	N 1084		102.429	90.96277	90.94539	2	40 08 08	123 48 51
206	LU1267	P 1084		103.317	90.53334	90.51591	2	40 08 31	123 48 24

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
207		TBM 85		103.848	98.43889	98.42143	5	40 08 43	123 48 08*
208		TBM 86		104.332	91.17264	91.15515	2	40 08 53	123 47 53*
209	LU1268	Q 1084		104.901	90.05962	90.04210	2	40 09 06	123 47 36
210		TBM 87		105.646	96.35050	96.33293	2	40 09 28	123 47 21*
211	LU1269	R 1084		106.245	84.73575	84.71814	2	40 09 45	123 47 09
212	LU1270	S 1084		107.087	83.08858	83.07093	2	40 10 04	123 46 50
213		TBM 88		107.766	80.38554	80.36785	2	40 10 23	123 46 42*
214		TBM 89		108.464	79.76984	79.75211	2	40 10 43	123 46 34*
215	LU1271	T 1084		108.896	86.21850	86.20074	2	40 10 55	123 46 29
216		TBM 90		109.308	77.63879	77.62101	2	40 11 06	123 46 21*
217		TBM 91		109.976	77.43507	77.41726	3	40 11 23	123 46 07*
218	LU1272	U 1084		110.444	75.74036	75.72253	3	40 11 35	123 45 58
219		TBM 92		111.269	75.27824	75.26037	2	40 11 54	123 46 18*
220	LU1274	V 1084		112.020	73.68219	73.66429	2	40 12 12	123 46 36
221		TBM 93		112.568	81.46175	81.44383	3	40 12 24	123 46 51*
222	LU1275	W 1084		113.033	84.88777	84.86983	2	40 12 35	123 47 04
223		TBM 94		113.675	70.25513	70.23715	3	40 12 54	123 47 03*
224	LU1276	P 101 CDH		114.306	73.94925	73.93124	2	40 13 13	123 47 03
225		TBM 95		115.036	86.31622	86.29820	2	40 13 18	123 47 31*
226	LU1279	A 634		115.791	69.22014	69.20211	2	40 13 24	123 47 59
227		TBM 96		116.026	84.10028	84.08226	2	40 13 21	123 48 07*
228	LU1280	X 1084		116.811	101.85096	101.83297	2	40 13 10	123 48 35
229	LU1281	Y 1084		117.568	106.50760	106.48959	2	40 13 16	123 49 06
230	LU1283	Z 1084		118.580	112.71765	112.69956	2	40 13 44	123 49 21
231		TBM 97		118.895	112.23100	112.21288	2	40 13 54	123 49 21*
232	LU1284	A 1085		119.517	100.95439	100.93622	2	40 14 13	123 49 22
233		TBM 98		120.181	69.91469	69.89647	2	40 14 34	123 49 20*
234	LU1286	B 1085		120.877	66.89652	66.87826	4	40 14 57	123 49 18
235		TBM 99		121.399	65.01858	65.00030	2	40 15 08	123 49 24*
236	LU1288	C 1085		122.301	65.17437	65.15606	2	40 15 27	123 49 35
237		TBM 100		122.735	68.03534	68.01703	2	40 15 29	123 49 53*
238	LU1289	J 101 CDH		123.445	62.92384	62.90552	5	40 15 33	123 50 22
239		TBM 101		124.101	61.95481	61.93646	2	40 15 51	123 50 38*
240	LU1290	D 1085		124.573	64.11721	64.09884	2	40 16 04	123 50 50
241	LU1291	H 101		125.438	69.51042	69.49201	2	40 16 29	123 50 58

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242		TBM 102		125.864	61.05102	61.03259	2	40 16 40	123 51 07*
243	LU1292	E 1085		126.461	63.31378	63.29533	2	40 16 56	123 51 20
244	LU1293	F 1085		127.232	89.75284	89.73441	2	40 16 45	123 51 42
245		TBM 103		127.927	83.09132	83.07294	5	40 16 24	123 51 47*
246	LU1294	G 1085		128.154	71.57820	71.55983	2	40 16 17	123 51 49
247		TBM 104		128.216	67.87121	67.85284	2	40 16 15	123 51 51*
248	LU1295	H 1085		128.855	62.05878	62.04044	3	40 16 00	123 52 06
249		TBM 105		129.507	82.02973	82.01137	2	40 16 13	123 52 24*
250	LU1298	J 1085		130.019	95.86767	95.84929	2	40 16 24	123 52 39
251		TBM 107		130.446	104.23160	104.21319	2	40 16 34	123 52 50*
252	LU1299	K 1085		131.121	103.09144	103.07299	3	40 16 51	123 53 08
253		TBM 106		131.408	106.34653	106.32806	2	40 16 57	123 53 16*
254		TBM 108		131.957	108.51633	108.49783	2	40 17 09	123 53 30*
255	LU1301	L 1085		132.244	105.98212	105.96360	2	40 17 15	123 53 38
256		TBM 109		132.731	101.45952	101.44096	2	40 17 28	123 53 35*
257	LU1302	M 1085		133.110	106.82334	106.80475	2	40 17 39	123 53 33
258	LU1303	N 1085		133.688	107.18797	107.16933	2	40 17 57	123 53 27
259		TBM 110		134.240	100.10902	100.09035	2	40 18 07	123 53 42*
260		TBM 111		134.864	104.35996	104.34126	2	40 18 19	123 53 58*
261	LU1304	P 1085		134.890	104.46979	104.45109	2	40 18 19	123 53 59
262		TBM 112		135.304	102.19353	102.17480	2	40 18 29	123 54 12*
263	LU1306	Q 1085		136.181	99.73410	99.71532	2	40 18 49	123 54 39
264		TBM 113		136.863	101.95911	101.94029	2	40 19 04	123 54 56*
265	LU1307	R 1085		137.540	103.11779	103.09893	2	40 19 18	123 55 12
266		TBM 114		138.316	105.67380	105.65488	2	40 19 40	123 55 27*
267		TBM 115		138.743	101.59570	101.57675	2	40 19 52	123 55 35*
268	LU1309	S 1085		139.174	95.37819	95.35921	2	40 20 04	123 55 43
269		TBM 116		139.772	83.89980	83.88078	3	40 20 21	123 55 47*
270		TBM 117		140.112	65.10757	65.08853	2	40 20 30	123 55 49*
271	LU1310	T 1085		140.487	53.72921	53.71015	2	40 20 41	123 55 51
272		TBM 118		141.161	51.79865	51.77956	2	40 21 00	123 55 39*
273	LU1480	U 1085		141.843	59.40505	59.38593	2	40 21 19	123 55 26
274		TBM 120		142.254	60.41407	60.39494	2	40 21 28	123 55 26*
275		TBM 119		142.763	68.56770	68.54855	2	40 21 40	123 55 25*
276		TBM 121		143.236	83.95900	83.93983	2	40 21 51	123 55 25*



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277		TBM 122							
278	LU1481	V 1085		143.611	92.15264	92.13345	2	40 22 00	123 55 24*
279		TBM 123		143.791	88.92077	88.90157	2	40 22 04	123 55 24
280	LU1482	W 1085		144.375	95.64048	95.62124	3	40 22 22	123 55 25*
281		TBM 124		144.885	109.92852	109.90924	4	40 22 37	123 55 25
				145.452	102.47269	102.45336	2	40 22 54	123 55 29*
282	LU1483	X 1085		145.774	104.67731	104.65795	2	40 23 04	123 55 31
283		TBM 125		146.040	113.68369	113.66431	3	40 23 12	123 55 37*
284		TBM 126		146.601	126.65384	126.63441	3	40 23 28	123 55 49*
285	LU1484	Y 1085		147.313	119.58765	119.56816	2	40 23 49	123 56 05
286	LU1485	Z 1085		148.112	124.53564	124.51612	2	40 23 58	123 56 50
287		TBM 127		148.689	106.29547	106.27590	2	40 24 14	123 57 01*
288	LU1486	A 1086		149.551	95.89275	95.87312	3	40 24 37	123 57 17
289		TBM 128		150.196	107.05347	107.03380	2	40 24 51	123 57 39*
290	LU1487	B 1086		150.649	105.48694	105.46724	2	40 25 01	123 57 55
291		TBM 129		151.300	102.91597	102.89625	2	40 25 10	123 58 19*
292	LU1488	C 1086		151.853	117.86816	117.84842	2	40 25 18	123 58 40
293		TBM 130		152.420	106.55419	106.53440	2	40 25 35	123 58 51*
294		TBM 131		152.853	75.66293	75.64311	2	40 25 48	123 58 59*
295	LU1489	D 1086		153.041	65.25690	65.23707	2	40 25 54	123 59 03
296	LU1490	E 1086		153.961	48.00437	47.98450	2	40 26 24	123 59 05
297		TBM 132		154.507	44.20714	44.18726	2	40 26 36	123 59 17*
298	LU1491	F 1086		155.088	45.25249	45.23260	2	40 26 49	123 59 30
299		TBM 133		155.844	41.76147	41.74159	2	40 26 44	124 00 09*
300	LVO428	D 477 CDH		156.602	46.58923	46.56936	2	40 26 38	124 00 48
301		TBM 134		157.140	44.20908	44.18922	2	40 26 31	124 01 12*
302	LVO429	G 1086		157.544	50.13805	50.11820	2	40 26 25	124 01 30
303		TBM 135		158.375	46.46678	46.44693	2	40 26 28	124 02 01*
304	LVO430	H 1086		158.632	46.16107	46.14122	2	40 26 29	124 02 11
305		TBM 136		159.120	36.90233	36.88247	2	40 26 43	124 02 18*
306		TBM 137		159.484	38.30451	38.28464	2	40 26 53	124 02 23*
307	LVO431	J 1086		159.999	37.41862	37.39874	2	40 27 08	124 02 31
308	LVO432	K 1086		160.528	42.46738	42.44749	2	40 27 14	124 02 55
309		TBM 138		161.334	33.98634	33.96644	3	40 27 20	124 03 26*
310		TBM 139		161.860	49.01509	48.99519	2	40 27 24	124 03 47*
311	LVO433	L 1086		162.181	51.70399	51.68409	3	40 27 26	124 03 59

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312		TBM 140		162.653	44.86332	44.84341	2	40 27 31	124 04 19*
313	LVO390	M 1086		163.452	34.40447	34.38455	2	40 27 39	124 04 52
314		TBM 141		164.322	33.15075	33.13082	2	40 27 54	124 05 21*
315	LVO391	N 1086		164.915	40.49704	40.47710	2	40 28 05	124 05 41
316		TBM 142		165.615	48.36270	48.34274	2	40 28 26	124 05 54*
317	LVO392	P 1086		165.861	45.82358	45.80361	2	40 28 33	124 05 58
318		TBM 143		166.209	57.88238	57.86239	3	40 28 45	124 06 01*
319	LVO393	S 100		166.638	49.92821	49.90820	4	40 28 59	124 06 04
320		TBM 144		167.504	42.46515	42.44511	2	40 29 28	124 06 04*
321	LVO395	Q 1086		167.880	41.14039	41.12034	2	40 29 40	124 06 04
322		TBM 145		168.414	41.24920	41.22914	2	40 29 51	124 06 12*
323	LVO396	R 1086		168.805	38.55010	38.53003	2	40 29 59	124 06 18
324		TBM 146		169.521	36.93033	36.91025	2	40 30 14	124 06 40*
325	LVO223	O 33 CDH		170.334	33.36463	33.34454	2	40 30 30	124 07 04
326	LVO224	O 34 CDH		170.834	29.10516	29.08506	3	40 30 45	124 07 20
327	LVO226	O 36 CDH		171.491	24.92198	24.90187	2	40 30 53	124 07 46
328	LVO228	S 1086 CDH		172.450	23.56549	23.54537	2	40 31 07	124 08 23
329		TBM 147		173.101	26.73926	26.71913	2	40 31 22	124 08 42*
330	LVO229	T 1086		173.660	25.55659	25.53645	2	40 31 34	124 08 59
331		TBM 148		174.212	20.36450	20.34435	2	40 31 52	124 08 57*
332	LVO230	U 1086 CDH		174.595	20.01881	19.99865	2	40 32 05	124 08 55
333	LVO231	N 100 CDH		175.269	19.30078	19.28061	2	40 32 19	124 08 41
334		TBM 149		176.161	19.10255	19.08237	2	40 32 49	124 08 40*
335	LVO233	V 1086		176.866	16.83130	16.81111	2	40 33 13	124 08 40
336		TBM 150		177.726	17.02412	17.00392	2	40 33 44	124 08 47*
337	LVO234	W 1086		178.578	14.80134	14.78113	2	40 34 15	124 08 53
338	LVO235	L 100	)	178.747	15.11057	15.09036	2	40 34 09	124 08 47
337	LVO234	W 1086	*	178.578	14.80134	14.78113	2	40 34 15	124 08 53
339		TBM 151		179.311	20.68483	20.66461	2	40 34 37	124 08 56*
340	LVO236	X 1086		179.935	14.06399	14.04376	2	40 34 56	124 08 59
341		TBM 152		180.548	13.40975	13.38951	2	40 35 14	124 09 06*
342	LVO237	Y 1086		181.142	12.62747	12.60722	4	40 35 32	124 09 12
343		TBM 153		181.660	16.25279	16.23254	2	40 35 42	124 09 20*
344	LVO238	K 100		182.152	18.90086	18.88061	2	40 35 51	124 09 27
345		TBM 154		182.770	15.84046	15.82021	2	40 36 00	124 09 51*

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346	LVO239	Z 1086		183.249	20.77907	20.75882	2	40 36 07	124 10 09
347		TBM 155		183.669	22.30482	22.28457	2	40 36 13	124 10 23*
348	LVO240	A 1087		184.121	21.62248	21.60223	2	40 36 19	124 10 39
349		TBM 156		184.774	21.77826	21.75800	2	40 36 31	124 11 00*
350	LVO241	B 1087		185.456	21.34790	21.32763	3	40 36 44	124 11 22
351		TBM 157		185.962	35.49658	35.47630	2	40 36 54	124 11 40*
352	LVO242	C 1087		186.389	34.90276	34.88247	2	40 37 02	124 11 55
353		TBM 158		186.881	28.27751	28.25721	2	40 37 09	124 12 13*
354	LVO245	D 1087		187.397	22.98150	22.96120	2	40 37 17	124 12 32
355		TBM 159		187.945	44.88328	44.86297	2	40 37 30	124 12 46*
356	LVO246	E 1087		188.222	59.31014	59.28982	2	40 37 36	124 12 53
357		TBM 160		188.549	60.47517	60.45483	2	40 37 47	124 12 48*
358		TBM 161		189.266	62.61391	62.59353	2	40 38 10	124 12 37*
359	LVO248	F 1087		189.948	71.37304	71.35262	2	40 38 33	124 12 27
360		TBM 162		190.644	77.26271	77.24225	2	40 38 54	124 12 32*
361	LVO249	G 1087		191.184	86.34613	86.32564	2	40 39 11	124 12 36
362		TBM 163		191.595	85.07673	85.05622	2	40 39 22	124 12 26*
363	LVO251	H 1087		192.211	61.75495	61.73441	2	40 39 38	124 12 10
364		TBM 164		192.669	34.21237	34.19181	2	40 39 53	124 12 06*
365	LVO253	J 1087		192.995	14.41472	14.39415	2	40 40 04	124 12 03
366		TBM 165		193.664	4.08117	4.06060	2	40 40 24	124 12 01*
367	LVO255	K 1087		194.481	0.98618	0.96561	2	40 40 49	124 11 59
368		TBM 166		195.445	1.99654	1.97597	2	40 41 23	124 12 04*
369	LVO259	L 1087		196.147	0.96347	0.94290	2	40 41 48	124 12 08
370		TBM 168		196.797	2.59050	2.56993	2	40 42 08	124 12 15*
371	LVO260	M 1087		197.342	11.66619	11.64562	2	40 42 24	124 12 21
372		TBM 167		197.808	7.72307	7.70250	2	40 42 37	124 12 32*
373	LVO257	N 1087		198.262	6.04270	6.02213	2	40 42 50	124 12 42
374		TBM 169		198.921	6.93364	6.91307	2	40 43 10	124 12 44*
375	LVO263	P 1087		199.624	10.05445	10.03388	2	40 43 31	124 12 47
376		TBM 170		200.334	7.09179	7.07122	2	40 43 53	124 12 37*
377	LVO264	Q 1087		200.954	9.02973	9.00916	2	40 44 12	124 12 28
378		TBM 171		201.567	2.40642	2.38585	2	40 44 25	124 12 08*
379	LVO266	R 1087		202.290	4.38627	4.36570	2	40 44 41	124 11 44
380		TBM 172		203.019	3.23848	3.21791	2	40 45 00	124 11 32*

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381	LVO269	S 1087		203.712	3.11874	3.09817	2	40 45 18	124 11 21
382		TBM 173		204.339	2.00637	1.98580	2	40 45 39	124 11 23*
383	LVO271	T 1087		205.051	4.38228	4.36171	2	40 46 02	124 11 25
384	LVO274	U 1087		206.010	5.09720	5.07663	2	40 46 32	124 11 21
385	LVO275	K 75		206.592	4.96336	4.94279	2	40 46 48	124 11 07
386	LVO276	V 1087		207.365	4.14810	4.12753	2	40 47 08	124 10 49
387		TBM 174		208.066	3.94173	3.92116	2	40 47 30	124 10 40*
388	LVO277	32 COE	)	208.095	4.06357	4.04300	2	40 47 29	124 10 36
387		TBM 174	*	208.066	3.94173	3.92116	2	40 47 30	124 10 40*
389		TBM 175		208.360	2.44088	2.42031	2	40 47 40	124 10 36*
390	LVO278	68 COE		209.196	2.21801	2.19744	2	40 48 06	124 10 25
391	LVO279	TIDAL 1		209.880	4.93591	4.91534	3	40 48 10	124 09 57
392	LVO281	TIDAL 2		210.272	13.63224	13.61167	2	40 48 06	124 09 46
393		TBM 176		211.217	11.36109	11.34052	2	40 48 13	124 09 09*
394	LVO283	63 COE	)	211.242	11.26903	11.24846	3	40 48 17	124 09 12
395	LVO284	D 1091	)	211.809	3.04928	3.02871	3	40 48 26	124 09 04
393		TBM 176	*	211.217	11.36109	11.34052	2	40 48 13	124 09 09*
396		TBM 177		211.411	8.99239	8.97182	2	40 48 14	124 09 02*
397	LVO285	60 COE		211.767	5.87721	5.85664	2	40 48 17	124 08 48
398	LVO287	J 75 RESET 1942		212.277	6.94967	6.92910	2	40 48 18	124 08 26
399		TBM 178		212.543	5.41207	5.39150	2	40 48 18	124 08 18*
400	LVO288	W 1087		213.518	1.99617	1.97560	2	40 48 17	124 07 47
401	LVO291	H 75 RESET 1954		214.426	0.71041	0.68984	2	40 48 22	124 06 54
402		TBM 181		215.077	0.97254	0.95197	2	40 48 37	124 06 34*
403	LVO292	X 1087		215.793	1.01023	0.98966	2	40 48 54	124 06 12
404		TBM 180		216.192	0.48571	0.46514	2	40 49 01	124 05 58*
405		TBM 179		216.915	2.39048	2.36991	2	40 49 14	124 05 32*
406	LVO294	Y 1087		217.605	1.67360	1.65303	2	40 49 27	124 05 08
407	LVO296	Z 1087		218.434	1.93528	1.91471	2	40 49 50	124 04 52
408		TBM 182		219.145	2.41679	2.39622	2	40 50 14	124 04 50*
409	LVO298	G 75 RESET 1955		219.804	2.95006	2.92949	3	40 50 37	124 04 49
410		TBM 185		220.618	2.31801	2.29744	2	40 51 00	124 05 03*
411	LVO299	P 735		221.448	1.50528	1.48471	2	40 51 23	124 05 17
412		TBM 184		222.389	3.76258	3.74201	2	40 51 54	124 05 09*
413		TBM 183		222.423	3.96626	3.94569	4	40 51 55	124 05 09*

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
414	LVO340	U 1091	)	222.847	4.80899	4.78842	2	40 51 58	124 05 28
415		TBM 226	)	223.562	4.28563	4.26506	2	40 52 02	124 06 00*
416	LVO341	V 1091	)	224.084	3.19116	3.17059	2	40 52 05	124 06 24
417		TBM 228	)	225.065	1.84777	1.82720	2	40 52 06	124 07 04*
418	LVO343	K 735	)	226.037	0.82697	0.80640	2	40 52 06	124 07 43
419		TBM 227	)	226.466	1.78467	1.76410	2	40 52 03	124 08 00*
420		TBM 229	)	227.294	1.69984	1.67927	2	40 51 58	124 08 32*
421		TBM 230	)	227.868	2.93600	2.91543	2	40 51 54	124 08 55*
422	LVO344	W 1091	)	228.173	3.61511	3.59454	3	40 51 52	124 09 07
423		TBM 231	)	228.473	4.02923	4.00866	2	40 51 44	124 09 13*
424		TBM 232	)	229.206	6.65977	6.63920	2	40 51 23	124 09 29*
425	LVO347	X 1091	)	229.768	4.95647	4.93590	2	40 51 07	124 09 41
426		TBM 233	)	230.785	3.90121	3.88064	2	40 50 39	124 09 58*
427	LVO349	G 735	)	231.553	4.44276	4.42219	2	40 50 17	124 10 11
428		TBM 234	)	232.316	4.48780	4.46723	2	40 49 53	124 10 15*
429	LVO350	Z 1091	)	232.654	3.99020	3.96963	2	40 49 43	124 10 17
430		TBM 235	)	233.172	2.26062	2.24005	2	40 49 29	124 10 25*
431	LVO351	F 735	)	233.520	4.35783	4.33726	2	40 49 20	124 10 31
432		TBM 236	)	233.687	4.08402	4.06345	2	40 49 17	124 10 36*
433	LVO352	TIDAL 2	))	234.098	2.51368	2.49311	2	40 49 05	124 10 47
432		TBM 236	)*	233.687	4.08402	4.06345	2	40 49 17	124 10 36*
434		TBM 237	)	234.416	7.78610	7.76553	2	40 49 01	124 10 57*
435	LVO353	E 735	)	235.198	5.40210	5.38153	2	40 48 45	124 11 20
436		TBM 238	)	235.862	2.94798	2.92741	2	40 48 31	124 11 32*
437	LVO354	Y 1091	)	236.389	11.43515	11.41458	2	40 48 19	124 11 42
438		TBM 239	)	236.863	2.40029	2.37972	2	40 48 02	124 11 43*
439	LVO355	D 735	)	237.310	6.22020	6.19963	2	40 47 46	124 11 43
440		TBM 241	)	238.077	3.12355	3.10298	2	40 47 24	124 11 57*
441	LVO356	C 735	)	238.940	4.09290	4.07233	2	40 47 00	124 12 13
442	LVO357	A 735	)	239.492	3.29062	3.27005	2	40 46 47	124 12 26
443		TBM 240	)	240.450	2.83832	2.81775	2	40 46 21	124 12 46*
444	LVO358	TIDAL 1	)	241.160	2.48754	2.46697	3	40 46 01	124 13 01
445	LVO359	TIDAL 11	)	241.192	3.42729	3.40672	2	40 46 01	124 13 00
446	LVO360	TIDAL 12	)	241.207	3.41034	3.38977	2	40 46 00	124 13 00
447	LVO361	TIDAL 9	)	241.246	3.94657	3.92600	2	40 46 00	124 13 01

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE			LONGITUDE		
								DD	MM	SS	DDD	MM	SS
413		TBM 183	*	222.423	3.96626	3.94569	4	40	51	55	124	05	09*
448	LVO301	F 75 RESET 1955		222.787	10.39786	10.37729	2	40	52	07	124	05	06
449	LVO302	N 735		222.851	10.32599	10.30542	4	40	52	02	124	05	00
450		TBM 186		223.536	26.06207	26.04149	3	40	52	23	124	04	56*
451	LVO303	E 75	)	223.753	25.07816	25.05758	2	40	52	29	124	05	09
450		TBM 186	*	223.536	26.06207	26.04149	3	40	52	23	124	04	56*
452	LVO304	ARC 1 75 CDH		223.867	21.33656	21.31597	2	40	52	33	124	04	54
453	LVO305	I 6 92 CDH		224.021	18.44596	18.42537	2	40	52	39	124	04	55
454	LVO306	A 1088		224.125	15.95338	15.93279	2	40	52	43	124	04	52
455	LVO307	I 19 00 CDH		224.394	20.27878	20.25819	2	40	52	53	124	04	49
456	LVO308	I 30 00 CDH		224.716	17.58338	17.56279	2	40	53	01	124	04	47
457	LVO309	I 37 50 CDH		224.940	14.69710	14.67651	2	40	53	09	124	04	44
458	LVO310	I 43 82 CDH		225.130	15.19265	15.17206	2	40	53	14	124	04	44
459	LVO311	I 53 60 CDH		225.422	20.18679	20.16620	2	40	53	25	124	04	45
460	LVO312	108 CDH		225.548	22.15245	22.13186	2	40	53	30	124	04	46
461		TBM 1 P		226.367	12.32428	12.30368	2	40	53	55	124	04	58*
462	LVO313	B 1088		227.168	11.80486	11.78425	2	40	54	19	124	05	10
463		TBM 2 P		227.785	9.69968	9.67907	2	40	54	38	124	05	19*
464	LVO314	B 75		228.456	11.14674	11.12612	2	40	54	58	124	05	29
465	LVO315	E 1088		229.131	23.25299	23.23236	2	40	55	19	124	05	45
466		TBM 3 P		229.742	57.04307	57.02242	2	40	55	37	124	05	53*
467	LVO316	F 1088		230.279	38.50781	38.48714	2	40	55	52	124	06	00
468	LVO317	A 75		230.826	46.37986	46.35917	2	40	56	10	124	06	00
469		TBM 4 P		231.711	44.64742	44.62670	2	40	56	39	124	06	00*
470	LVO319	G 1088		232.547	32.97732	32.95657	2	40	57	06	124	06	00
471		TBM 5 P		233.510	35.98589	35.96511	2	40	57	38	124	05	58*
472	LVO320	H 1088		233.824	41.57237	41.55158	2	40	57	48	124	05	58
473		TBM 7 P		234.231	52.93692	52.91612	2	40	57	57	124	06	08*
474		TBM 6 P		234.751	64.50672	64.48590	2	40	58	09	124	06	20*
475	LVO321	AP STA B 2	)	234.999	66.18011	66.15928	2	40	58	16	124	06	06
474		TBM 6 P	*	234.751	64.50672	64.48590	2	40	58	09	124	06	20*
476	LVO322	J 520		235.124	62.24795	62.22712	2	40	58	18	124	06	29
705	LVO323	ARP		235.809	60.40938	60.38851	2	40	58	41	124	06	28
477	LVO324	ARP 2		235.827	60.61788	60.59701	2	40	58	43	124	06	27
478	LVO325	AP STA A 2		236.650	54.17525	54.15434	2	40	59	08	124	06	42

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479		TBM 8 P		236.947	58.67011	58.64919	2	40 59 12	124 06 38*
480	LVO326	J 1088		237.463	37.62001	37.59908	2	40 59 18	124 06 31
481	LVO328	K 1088		238.191	6.16694	6.14600	2	40 59 43	124 06 41
482		TBM 9 P		238.929	11.89850	11.87755	2	41 00 06	124 06 36*
483	LVO144	H 520		239.699	12.37527	12.35431	2	41 00 29	124 06 31
484		TBM 10 P		240.588	4.95059	4.92962	2	41 00 57	124 06 25*
485	LVO148	L 1088		241.144	7.39437	7.37340	3	41 01 15	124 06 21
486	LVO149	P 1088		241.960	35.31666	35.29567	2	41 01 43	124 06 23
487		TBM 187		242.474	61.49952	61.47851	2	41 01 56	124 06 32*
488	LVO150	N 1088		242.880	83.74106	83.72003	2	41 02 07	124 06 39
489		TBM 188		243.623	71.66522	71.64415	2	41 02 28	124 06 51*
490		TBM 189		243.999	58.38249	58.36140	2	41 02 39	124 06 57*
491	LVO152	M 1088		244.244	63.62906	63.60796	2	41 02 46	124 07 01
492		TBM 190		244.778	79.02139	79.00027	2	41 02 58	124 07 12*
493	LVO153	D 1088		245.144	84.37850	84.35736	2	41 03 06	124 07 20
494		TBM 191		245.858	68.01475	67.99358	2	41 03 23	124 07 46*
495	LVO154	C 1088		246.622	62.49092	62.46972	2	41 03 42	124 08 13
496		TBM 192		247.363	66.77087	66.74963	2	41 04 05	124 08 27*
497	LVO155	Q 1088		247.766	76.92525	76.90399	2	41 04 18	124 08 34
498		TBM 193		248.270	73.25360	73.23231	2	41 04 34	124 08 40*
499		TBM 194		248.769	75.21854	75.19722	2	41 04 50	124 08 45*
500	LVO156	R 1088		249.447	70.92140	70.90004	2	41 05 11	124 08 53
501		TBM 195		250.212	70.23824	70.21684	3	41 05 31	124 09 09*
502	LVO157	S 1088		250.804	78.90532	78.88389	2	41 05 47	124 09 21
503	LVO158	T 1088		251.463	68.85070	68.82923	2	41 06 10	124 09 30
504		TBM 196		251.602	62.17257	62.15109	2	41 06 14	124 09 29*
505		TBM 197		252.098	72.68922	72.66772	4	41 06 29	124 09 23*
506	LVO159	U 1088		252.695	83.38299	83.36146	2	41 06 46	124 09 17
507		TBM 198		253.254	81.48706	81.46549	2	41 07 05	124 09 17*
508		TBM 199		253.520	69.54718	69.52559	2	41 07 15	124 09 17*
509	LVO160	V 1088		254.022	75.69731	75.67569	2	41 07 32	124 09 17
510		TBM 200		254.820	64.01420	63.99254	2	41 07 54	124 09 08*
511	LVO162	W 1088		255.103	76.02854	76.00687	2	41 08 02	124 09 05
512		TBM 202		255.599	82.95168	82.92999	2	41 08 11	124 08 46*
513		TBM 201		256.083	92.11031	92.08860	2	41 08 20	124 08 28*

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514	LVO164	X 1088		256.542	118.31253	118.29080	3	41 08 28	124 08 10
515		TBM 203		256.974	109.11561	109.09385	2	41 08 40	124 08 06*
516		TBM 204		257.505	77.93650	77.91470	3	41 08 55	124 08 00*
517	LVO165	Y 1088		258.003	47.28509	47.26327	2	41 09 09	124 07 55
518		TBM 205		258.517	37.61009	37.58826	2	41 09 19	124 07 37*
519	LVO166	Z 1088		258.967	31.44889	31.42705	2	41 09 28	124 07 21
520		TBM 206		259.449	7.79599	7.77415	2	41 09 35	124 07 02*
521	LVO167	A 1089		260.216	7.30078	7.27894	2	41 09 47	124 06 32
522		TBM 208		260.932	9.18131	9.15947	2	41 10 07	124 06 27*
523		TBM 207		261.594	12.41404	12.39220	2	41 10 25	124 06 22*
524	LVO168	B 1089		262.384	23.40489	23.38304	2	41 10 47	124 06 17
525		TBM 209		262.945	36.95225	36.93039	2	41 11 05	124 06 24*
526		TBM 210		263.114	47.58782	47.56595	2	41 11 10	124 06 26*
527	LVO169	C 1089		263.634	29.60778	29.58589	2	41 11 26	124 06 32
528		TBM 211		264.211	9.18826	9.16636	2	41 11 42	124 06 33*
529		TBM 212		264.323	13.79541	13.77351	2	41 11 45	124 06 34*
530	LVO170	D 1089		264.892	37.01420	36.99229	2	41 12 01	124 06 35
531		TBM 213		265.570	29.11704	29.09511	3	41 12 26	124 06 33*
532		TBM 214		265.840	44.96864	44.94670	2	41 12 35	124 06 32*
533	LVO171	E 1089		266.381	65.64441	65.62244	2	41 12 55	124 06 30
534		TBM 215		266.892	61.85440	61.83242	2	41 13 03	124 06 19*
535		TBM 216		267.431	34.05575	34.03376	2	41 13 11	124 06 07*
536	LVO172	F 1089		267.728	17.52338	17.50139	2	41 13 15	124 06 00
537		TBM 217		268.111	12.52041	12.49842	2	41 13 20	124 05 45*
538	LVO173	G 1089		268.899	10.61574	10.59375	2	41 13 31	124 05 15
539		TBM 218		269.545	7.17190	7.14991	2	41 13 50	124 05 05*
540	LVO174	H 1089		270.150	5.98460	5.96261	2	41 14 07	124 04 56
541		TBM 219		270.630	10.70073	10.67874	2	41 14 21	124 05 01*
542	LVO175	J 1089		271.210	36.27656	36.25456	2	41 14 39	124 05 07
543		TBM 220		271.640	58.30914	58.28713	4	41 14 51	124 05 10*
544	LVO176	K 1089		272.219	70.73285	70.71081	2	41 15 06	124 05 15
545		TBM 221		272.332	74.33502	74.31297	2	41 15 09	124 05 17*
546	LVO177	L 74	)	272.811	49.11358	49.09152	4	41 15 17	124 05 11
545		TBM 221	*	272.332	74.33502	74.31297	2	41 15 09	124 05 17*
547		TBM 222		272.885	44.26514	44.24307	2	41 15 25	124 05 29*



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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
548	LVO178	L 1089		273.645	26.77560	26.75351	2	41 15 46	124 05 45
549		TBM 223		274.471	8.12774	8.10564	2	41 16 12	124 05 40*
550	LVO181	M 1089		275.326	6.95108	6.92897	2	41 16 39	124 05 35
551		TBM 224		276.102	5.94904	5.92693	2	41 16 57	124 05 15*
552	LVO182	N 1089		276.853	5.57693	5.55482	2	41 17 14	124 04 55
553		TBM 225		277.554	6.13728	6.11517	2	41 17 09	124 04 27*
554	LVO183	RO 8 USE		278.036	6.57938	6.55727	2	41 17 06	124 04 07
555	LVO185	J 74		279.089	10.66915	10.64704	2	41 17 17	124 03 28
556		TBM 58 P		279.287	9.54291	9.52080	2	41 17 22	124 03 25*
557		TBM 59 P		280.206	10.59316	10.57104	2	41 17 46	124 03 09*
558	LVO186	D 862	)	280.217	10.40315	10.38103	2	41 17 49	124 03 10
557		TBM 59 P	*	280.206	10.59316	10.57104	2	41 17 46	124 03 09*
559		TBM 60 P		281.014	13.27560	13.25347	2	41 18 08	124 02 55*
560	LVO202	H 74		281.907	12.44363	12.42149	2	41 18 31	124 02 39
561		TBM 61 P		282.815	13.57652	13.55437	2	41 18 59	124 02 25*
562	LVO201	V 647		283.610	12.88554	12.86338	2	41 19 23	124 02 13
563		TBM 62 P		284.205	15.42435	15.40219	2	41 19 37	124 01 59*
564	LVO200	G 74		284.868	19.77060	19.74843	2	41 19 53	124 01 44
565	LVO199	F 862		285.699	19.16406	19.14188	2	41 20 18	124 01 49
566		TBM 63 P		286.557	24.63253	24.61034	2	41 20 42	124 01 40*
567	LVO198	P 640		287.151	28.71969	28.69749	2	41 20 59	124 01 34
568		TBM 64 P		287.892	38.00540	37.98318	2	41 21 21	124 01 23*
569	LVO197	F 74		288.907	47.07534	47.05309	2	41 21 51	124 01 08
570	LVO196	U 648		289.024	47.58298	47.56073	2	41 21 54	124 01 07
571		TBM 65 P		289.645	56.66377	56.64150	2	41 22 12	124 00 58*
572	LVO195	R 1091		290.468	63.97462	63.95231	2	41 22 35	124 00 47
573		TBM 66 P		291.043	78.28165	78.25931	2	41 22 53	124 00 55*
574		TBM 67 P		291.780	81.32413	81.30174	2	41 23 16	124 01 06*
575	LVO194	E 74		292.430	91.05989	91.03746	2	41 23 37	124 01 15
576		TBM 68 P		293.256	102.32678	102.30429	2	41 24 03	124 01 30*
577	LVO193	S 1091		293.923	118.64279	118.62024	2	41 24 24	124 01 43
578		TBM 69 P		294.732	129.88711	129.86449	2	41 24 48	124 01 50*
579	LVO192	D 74		295.628	144.40047	144.37776	2	41 25 14	124 01 58
580	LVO191	T 1091		297.283	175.90798	175.88506	2	41 26 05	124 02 17
581		TBM 56 P		297.843	191.95501	191.93201	2	41 26 23	124 02 16*

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE			LONGITUDE		
								DD	MM	SS	DDD	MM	SS
582		TBM 57 P		298.358	222.12348	222.10039	2	41	26	40	124	02	14*
583	LVO190	N 1091		298.899	252.30909	252.28590	2	41	26	57	124	02	13
584		TBM 54 P		299.475	253.70870	253.68544	2	41	27	08	124	02	24*
585	LVO189	M 1091		299.818	233.65841	233.63511	2	41	27	14	124	02	31
586		TBM 55 P		300.342	201.29748	201.27410	2	41	27	29	124	02	41*
587	LVO188	L 1091		300.619	184.98166	184.95824	2	41	27	37	124	02	46
588	LVO187	K 1091		301.137	155.67005	155.64657	2	41	27	51	124	02	30
589		TBM 53 P		301.665	125.91134	125.88781	2	41	28	05	124	02	30*
590	LVO206	J 1091		302.230	128.75764	128.73406	2	41	28	20	124	02	29
591		TBM 51 P		302.803	145.35153	145.32789	2	41	28	36	124	02	41*
592	LVO207	H 1091		303.518	147.14622	147.12251	2	41	28	56	124	02	55
593		TBM 52 P		304.031	116.04989	116.02612	2	41	29	13	124	02	52*
594	LVO208	G 1091		304.311	98.29508	98.27128	2	41	29	23	124	02	50
595		TBM 50 P		304.564	84.34174	84.31793	2	41	29	29	124	02	44*
596		TBM 49 P		304.831	69.93626	69.91244	2	41	29	36	124	02	38*
597	LVO050	F 1091		305.411	46.97513	46.95129	2	41	29	50	124	02	25
598		TBM 48 P		306.071	28.82902	28.80516	2	41	30	07	124	02	07*
599	LVO052	E 1091		306.631	14.63026	14.60639	3	41	30	22	124	01	52
600		TBM 47 P		307.197	13.87146	13.84758	2	41	30	38	124	01	46*
601	LVO053	BRIDGE USGS		307.747	19.67940	19.65551	2	41	30	54	124	01	40
602	LVO054	C 1091		308.371	18.03687	18.01297	2	41	31	13	124	01	52
603	LVO056	Z 73 RESET 1966		308.861	8.86333	8.83943	2	41	31	27	124	02	01
604	LVO058	B 1091		309.595	8.70187	8.67797	4	41	31	49	124	02	14
605		TBM 46 P		310.226	6.40630	6.38240	2	41	32	04	124	02	30*
606	LVO059	A 1091		311.054	6.16925	6.14535	2	41	32	23	124	02	52
607	LVO060	S 635		311.107	6.31894	6.29504	2	41	32	23	124	02	52
608		TBM 45 P		311.625	5.42364	5.39974	2	41	32	39	124	02	58*
609	LVO061	Y 73		312.379	8.71874	8.69484	2	41	33	03	124	03	07
610	LVO062	Z 1090		313.337	8.58128	8.55737	2	41	33	30	124	03	27
611		TBM 44 P		314.059	8.44691	8.42300	2	41	33	48	124	03	44*
612		TBM 39 P		314.739	9.01331	8.98940	2	41	34	05	124	04	00*
613	LVO063	Y 1090		314.931	5.93155	5.90764	2	41	34	10	124	04	05
614		TBM 38 P		315.621	20.46603	20.44211	2	41	34	30	124	04	22*
615	LVO064	X 73		316.466	17.90519	17.88126	2	41	34	54	124	04	42
616		TBM 37 P		316.890	20.12871	20.10478	2	41	35	00	124	04	58*

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED	NORMAL	RUNS	LATITUDE			LONGITUDE		
					HT METERS	ORTHO HT METERS		DD	MM	SS	DDD	MM	SS
617	LVO065	X 1090		317.625	10.89703	10.87310	2	41	35	10	124	05	26
618		TBM 35 P		318.135	5.70454	5.68061	2	41	35	25	124	05	39*
619	LVO066	W 1090		318.676	6.56210	6.53817	2	41	35	41	124	05	52
620		TBM 36 P		319.327	11.01616	10.99223	3	41	35	59	124	05	56*
621		TBM 32 P		319.736	11.21875	11.19482	2	41	36	11	124	05	58*
622	LVO067	W 73	)	320.257	5.74747	5.72354	2	41	36	24	124	05	47
621		TBM 32 P	*	319.736	11.21875	11.19482	2	41	36	11	124	05	58*
623	LVO068	V 1090		319.963	21.83469	21.81076	2	41	36	17	124	05	59
624		TBM 33 P		320.501	56.67879	56.65484	2	41	36	33	124	06	08*
625	LVO069	U 1090		320.928	83.33416	83.31019	2	41	36	46	124	06	16
626	LVO070	T 1090		321.584	125.37324	125.34922	2	41	37	05	124	06	29
627		TBM 34 P		322.297	162.41868	162.39456	2	41	37	31	124	06	38*
628	LVO073	V 73 RESET 1938	)	322.371	164.13640	164.11226	2	41	37	36	124	06	40
627		TBM 34 P	*	322.297	162.41868	162.39456	2	41	37	31	124	06	38*
629		TBM 31 P		322.605	179.78928	179.76511	2	41	37	43	124	06	42*
630	LVO074	S 1090		323.017	194.68412	194.65988	2	41	37	58	124	06	47
631		TBM 30 P		323.602	219.70292	219.67860	2	41	38	14	124	06	45*
632		TBM 29 P		324.098	249.50750	249.48310	2	41	38	27	124	06	44*
633	LVO075	R 1090	)	324.120	250.04499	250.02060	2	41	38	26	124	06	49
632		TBM 29 P	*	324.098	249.50750	249.48310	2	41	38	27	124	06	44*
634		TBM 28 P		324.333	253.37991	253.35547	2	41	38	34	124	06	43*
635	LVO077	U 73	)	324.799	253.69763	253.67312	2	41	38	45	124	06	59
634		TBM 28 P	*	324.333	253.37991	253.35547	2	41	38	34	124	06	43*
636		TBM 27 P		324.719	276.13607	276.11156	2	41	38	44	124	06	42*
637	LVO078	Q 1090		325.047	293.49044	293.46587	2	41	38	53	124	06	41
638	LVO079	P 1090		325.454	312.32852	312.30386	2	41	39	05	124	06	49
639		TBM 26 P		326.110	299.36349	299.33868	2	41	39	24	124	06	51*
640	LVO080	N 1090		326.581	284.74710	284.72219	2	41	39	38	124	06	53
641	LVO081	M 1090		327.328	315.93875	315.91366	2	41	40	01	124	06	41
642		TBM 25 P		327.781	335.51286	335.48765	2	41	40	16	124	06	41*
643	LVO084	L 1090		328.369	324.64020	324.61483	2	41	40	35	124	06	41
644		TBM 24 P		329.036	335.62060	335.59508	2	41	40	52	124	06	31*
645	LVO085	K 1090		329.598	369.91422	369.88857	2	41	41	07	124	06	22
646		TBM 22 P		330.187	369.53162	369.50583	2	41	41	22	124	06	26*
647	LVO086	J 1090		330.650	344.46996	344.44406	3	41	41	34	124	06	29

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
648		TBM 23 P		331.061	325.78818	325.76222	2	41 41 41	124 06 48*
649	LVO087	H 1090		331.327	312.82888	312.80288	2	41 41 46	124 07 00
650		TBM 21 P		331.880	304.73935	304.71323	2	41 42 01	124 07 12*
651	LVO088	G 1090		332.370	314.12658	314.10035	3	41 42 15	124 07 22
652		TBM 20 P		332.768	301.47470	301.44844	2	41 42 19	124 07 33*
653	LVO090	F 1090		333.146	304.86125	304.83496	3	41 42 23	124 07 44
654		TBM 18 P		333.589	274.89756	274.87121	3	41 42 32	124 07 42*
655	LVO091	E 1090		334.083	243.12718	243.10077	2	41 42 41	124 07 39
656	LVO092	D 1090		334.496	215.44318	215.41673	2	41 42 48	124 07 48
657		TBM 19 P		334.954	182.65249	182.62598	2	41 42 59	124 07 58*
658	LVO093	C 1090		335.459	147.39584	147.36928	2	41 43 11	124 08 10
659		TBM 17 P		335.968	110.48406	110.45744	2	41 43 28	124 08 20*
660	LVO094	B 1090		336.327	84.86779	84.84114	2	41 43 40	124 08 27
661		TBM 16 P		336.787	50.97052	50.94385	2	41 43 51	124 08 40*
662	LVO095	A 1090		337.334	16.14651	16.11983	2	41 44 03	124 08 56
663		TBM 15 P		337.671	6.04745	6.02077	2	41 44 09	124 09 09*
664	LVO096	P 73	)	337.909	9.41088	9.38420	2	41 44 02	124 09 23
663		TBM 15 P	*	337.671	6.04745	6.02077	2	41 44 09	124 09 09*
665	LVO097	Z 1089		338.644	2.31258	2.28590	2	41 44 28	124 09 47
666	LVO098	Y 1089		339.408	3.82718	3.80050	2	41 44 39	124 10 12
667		TBM 14 P		339.651	4.18131	4.15463	2	41 44 43	124 10 20*
668	LVO099	TIDAL 21	)	340.354	3.23968	3.21300	2	41 44 55	124 10 45
669	LVO100	S 1089	)	340.385	3.63829	3.61161	2	41 44 55	124 10 46
670	LVO103	TIDAL 16 RESET 1967	)	340.453	3.42016	3.39348	2	41 44 52	124 10 50
671	LVO104	TIDAL 22	)	340.488	3.04043	3.01375	2	41 44 52	124 10 50
672	LVO106	T 1089	)	340.510	2.79443	2.76775	2	41 44 52	124 10 50
673	LVO108	U 1089	)	340.740	3.29674	3.27006	2	41 44 47	124 10 48
674	LVO110	TIDAL 20 RESET 1960	)	340.954	3.17816	3.15148	2	41 44 45	124 10 57
675		TBM TIDE STAFF	)	341.119	2.37004	2.34336	2	41 44 45	124 10 57*
668	LVO099	TIDAL 21	*	340.354	3.23968	3.21300	2	41 44 55	124 10 45
676	LVO112	TIDAL 19		340.938	2.88504	2.85836	3	41 45 08	124 11 05
677		TBM 40 P	)	341.558	5.10149	5.07481	2	41 45 13	124 10 40*
678	LVO049	P 1091	)	342.204	8.77987	8.75319	2	41 45 18	124 10 13
679		TBM 41 P	)	342.669	11.76756	11.74088	3	41 45 29	124 09 59*
680	LVO048	Q 1091	)	343.164	10.93178	10.90510	2	41 45 41	124 09 44

*✓ crescent city*

*941 9750*

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
681		TBM 42 P	)	343.829	16.57756	16.55087	2	41 46 00	124 09 30*
682		TBM 43 P	)	344.520	21.84578	21.81908	2	41 46 19	124 09 15*
683	LVO047	K 73	)	345.257	20.45798	20.43127	2	41 46 40	124 09 00
676	LVO112	TIDAL 19	*	340.938	2.88504	2.85836	3	41 45 08	124 11 05
684	LVO113	TIDAL 18		341.385	2.89459	2.86791	2	41 45 12	124 11 23
685	LVO114	TIDAL 17 USE		341.527	2.97871	2.95203	2	41 45 10	124 11 30
686	LVO115	TIDAL 7		341.890	3.31250	3.28582	2	41 45 02	124 11 43
687	LVO116	TIDAL 13	)	342.032	3.41361	3.38693	3	41 45 01	124 11 48
688	LVO117	TIDAL 6	)	342.235	3.31748	3.29080	2	41 44 56	124 11 55
689	LVO118	TIDAL 14 USE	)	342.246	2.86313	2.83645	2	41 44 56	124 11 55
690	LVO119	Q 1089	)	342.626	8.69014	8.66346	2	41 44 44	124 11 57
691	LVO120	P 1089	)	342.637	8.07977	8.05309	2	41 44 46	124 11 59
692	LVO121	R 1089	)	342.666	9.58763	9.56095	2	41 44 45	124 11 57
693	LVO122	TIDAL 8	)	342.702	8.16681	8.14013	2	41 44 46	124 11 59
694	LVO123	V 1089	)	342.779	1.35212	1.32544	2	41 44 45	124 11 56
695	LVO124	58 USGS	)	343.016	17.97646	17.94978	2	41 44 39	124 12 06
686	LVO115	TIDAL 7	*	341.890	3.31250	3.28582	2	41 45 02	124 11 43
696	LVO002	M 73 ✓		342.673	13.61996	13.59328	2	41 45 24	124 12 12
697		TBM 11 P		343.485	16.39301	16.36633	2	41 45 27	124 12 48*
698	LVO125	W 1089		344.410	16.14276	16.11608	2	41 45 30	124 13 29
699		TBM 13 P		345.152	10.36321	10.33652	2	41 45 46	124 13 45*
700	LVO126	X 1089		346.003	1.76617	1.73948	3	41 46 05	124 14 03
701		TBM 12 P		346.899	12.82694	12.80025	2	41 46 24	124 14 20*
702	LVO127	AP STA A		347.016	13.97799	13.95130	2	41 46 26	124 14 22
703	LVO128	ARP		347.882	16.54700	16.52030	2	41 46 48	124 14 09
704	LVO129	AP STA B		348.629	17.10150	17.07479	2	41 47 14	124 14 07

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-- ROD STANDARDIZATION --

EQUIP CODE	SERIAL NO	MANUFACTURER	MODEL	GRAD CODE	ROD UNITS	STD TEMP (C)	COEF EXPN (/C)	ROD EXCESS	INDEX ERROR
							X.0001	X.001	
312	424	USC&GS	INVAR		CM	23.0	0.0050A	-0.1643C	-0.0178U
312	454	USC&GS	INVAR		CM	24.0	0.0050A	-0.0275C	0.0204C
MEANS FOR ROD PAIR NUMBER 1						23.5	0.0050	-0.0959	
312	409	USC&GS	INVAR		CM	25.0	0.0100A	0.0207C	-0.0200C
312	344	USC&GS	INVAR		CM	25.0	0.0100A	0.0429C	0.0000C
MEANS FOR ROD PAIR NUMBER 2						25.0	0.0100	0.0318	

PARAMETER FLAGS: A - ASSUMED, C - COMPUTED, R - FROM ARCHIVAL RECORDS  
U - USED PREVIOUSLY COMPUTED VALUE, ? - REDUC4 DEFAULT  
I - INTERPOLATED (25\*), \* - TAKEN FROM 16\* RECORD

CS/NGS                                      21 JUN 1967                                      06 OCT 1967

-- INSTRUMENT INFORMATION AND COLLIMATION DATA --											
INST	EQ CODE	SERIAL NO	MODEL	STADIA CONST	STADIA DATE	MICRO METER	MAG CONST	MAG POWER	MAG CAL DATE	ROD PAIR	40*
1	211	G77	FISCHER	USC&GS							
	21	JUN 67	1308	-0.0050 *	324	19620622				1	1
	22	JUN 67	917	-0.0050 *	324	19620622				1	2
	23	JUN 67	917	-0.0060 *	324	19620622				1	3
	26	JUN 67	906	-0.0060 *	324	19620622				1	4
	27	JUN 67	906	-0.0020 *	324	19620622				1	5
	28	JUN 67	844	-0.0010 *	324	19620622				1	6
	29	JUN 67	841	-0.0070 *	324	19620622				1	7
	30	JUN 67	839	-0.0040 *	324	19620622				1	8
	03	JUL 67	1412	-0.0050 *	324	19620622				1	9
	05	JUL 67	911	0.0000 *	324	19620622				1	10
	06	JUL 67	840	0.0020 *	324	19620622				1	11
	07	JUL 67	825	0.0020 *	324	19620622				1	12
	10	JUL 67	834	0.0050 *	324	19620622				1	13
	11	JUL 67	825	0.0000 *	324	19620622				1	14
	12	JUL 67	821	0.0040 *	324	19620622				1	15
	13	JUL 67	812	-0.0010 *	324	19620622				1	16
	14	JUL 67	815	-0.0030 *	324	19620622				1	17
	17	JUL 67	827	-0.0020 *	324	19620622				1	18
	18	JUL 67	824	0.0010 *	324	19620622				1	19
	19	JUL 67	826	0.0020 *	324	19620622				1	20
	20	JUL 67	823	-0.0010 *	324	19620622				1	21
	21	JUL 67	837	0.0010 *	324	19620622				1	22
	24	JUL 67	815	0.0030 *	324	19620622				1	23
	25	JUL 67	805	-0.0020 *	324	19620622				1	24
	26	JUL 67	810	-0.0010 *	324	19620622				1	25
	27	JUL 67	805	0.0030 *	324	19620622				1	26
	28	JUL 67	805	0.0050 *	324	19620622				1	27
	31	JUL 67	755	-0.0040 *	324	19620622				1	28
	01	AUG 67	805	0.0060 *	324	19620622				1	29
	02	AUG 67	800	0.0020 *	324	19620622				1	30
	03	AUG 67	755	-0.0080 *	324	19620622				1	31
	04	AUG 67	750	-0.0030 *	324	19620622				1	32
	07	AUG 67	740	-0.0020 *	324	19620622				1	33
	08	AUG 67	740	0.0010 *	324	19620622				1	34
	09	AUG 67	740	-0.0020 *	324	19620622				1	35

\* - COLLIMATION CORRECTION FACTOR (ROD UNIT PER ROD UNIT OF STADIA INTERVAL)  
\$ - COLLIMATION ERROR (MM/M OR RADIANS X 1000)

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-- INSTRUMENT INFORMATION AND COLLIMATION DATA --												
INST	EQ CODE	SERIAL NO	MODEL	STADIA CONST	STADIA DATE	MICRO METER	MAG CONST	MAG POWER	MAG DATE	CAL	ROD PAIR	40*
1	211	G77	FISCHER	USC&GS								
	10	AUG 67	750	-0.0030 *	324	19620622					1	36
	11	AUG 67	750	-0.0050 *	324	19620622					1	37
	14	AUG 67	750	-0.0030 *	324	19620622					1	38
	15	AUG 67	755	-0.0030 *	324	19620622					1	39
	16	AUG 67	755	0.0010 *	324	19620622					1	40
	17	AUG 67	755	-0.0070 *	324	19620622					1	41
	18	AUG 67	800	-0.0060 *	324	19620622					1	42
	21	AUG 67	805	0.0040 *	324	19620622					1	43
	22	AUG 67	820	-0.0020 *	324	19620622					1	44
	23	AUG 67	810	0.0050 *	324	19620622					1	45
	24	AUG 67	815	-0.0010 *	324	19620622					1	46
	27	AUG 67	820	-0.0010 *	324	19620622					1	47
	28	AUG 67	820	-0.0010 *	324	19620622					1	48
	29	AUG 67	820	-0.0060 *	324	19620622					1	49
	30	AUG 67	820	0.0080 *	324	19620622					1	50
	31	AUG 67	820	-0.0030 *	324	19620622					1	51
	01	SEP 67	815	-0.0020 *	324	19620622					1	52
	05	SEP 67	820	0.0020 *	324	19620622					1	53
	06	SEP 67	815	0.0000 *	324	19620622					1	54
	07	SEP 67	805	-0.0010 *	324	19620622					1	55
	08	SEP 67	805	-0.0030 *	324	19620622					1	56
	11	SEP 67	800	-0.0010 *	324	19620622					1	57
	12	SEP 67	750	0.0030 *	324	19620622					1	58
	13	SEP 67	750	-0.0020 *	324	19620622					1	59
	14	SEP 67	735	0.0000 *	324	19620622					1	60
	15	SEP 67	750	0.0030 *	324	19620622					1	61
	18	SEP 67	755	0.0030 *	324	19620622					1	62
	19	SEP 67	800	-0.0040 *	324	19620622					1	63
	20	SEP 67	805	-0.0070 *	324	19620622					1	64
	21	SEP 67	815	0.0010 *	324	19620622					1	65
	22	SEP 67	805	-0.0070 *	324	19620622					1	66
	25	SEP 67	810	-0.0060 *	324	19620622					1	67
	26	SEP 67	810	-0.0060 *	324	19620622					1	68
	27	SEP 67	815	0.0000 *	324	19620622					1	69
	28	SEP 67	805	-0.0030 *	324	19620622					1	70

\* - COLLIMATION CORRECTION FACTOR (ROD UNIT PER ROD UNIT OF STADIA INTERVAL)  
\$ - COLLIMATION ERROR (MM/M OR RADIANS X 1000)



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-- INSTRUMENT INFORMATION AND COLLIMATION DATA --

INST	EQ CODE	SERIAL NO	MODEL	STADIA CONST	STADIA DATE	MICRO METER	MAG CONST	MAG POWER	MAG CAL DATE	ROD PAIR	40*
1	211	G77	FISCHER	USC&GS							
	29	SEP 67	820	-0.0080 *	324	19620622				1	71
	02	OCT 67	1300	-0.0020 *	324	19620622				1	72
	03	OCT 67	750	0.0040 *	324	19620622				1	73
	04	OCT 67	745	0.0000 *	324	19620622				1	74
	05	OCT 67	810	-0.0060 *	324	19620622				1	75
	06	OCT 67	800	-0.0060 *	324	19620622				1	76
2	211	G82	FISCHER	USC&GS							
	06	SEP 67	753	0.0050 *	317	19650721				2	77
	07	SEP 67	749	0.0090 *	317	19650721				2	78
	08	SEP 67	753	0.0040 *	317	19650721				2	79
	11	SEP 67	1257	0.0080 *	317	19650721				2	80
	12	SEP 67	812	0.0080 *	317	19650721				2	81
	13	SEP 67	822	0.0010 *	317	19650721				2	82
	14	SEP 67	800	0.0050 *	317	19650721				2	83
	15	SEP 67	801	0.0070 *	317	19650721				2	84
	18	SEP 67	754	0.0030 *	317	19650721				2	85
	19	SEP 67	754	0.0100 *	317	19650721				2	86
	20	SEP 67	813	-0.0060 *	317	19650721				2	87
	21	SEP 67	755	-0.0040 *	317	19650721				2	88
	22	SEP 67	750	-0.0070 *	317	19650721				2	89
	25	SEP 67	840	-0.0060 *	317	19650721				2	90
	26	SEP 67	747	-0.0080 *	317	19650721				2	91
	27	SEP 67	738	-0.0080 *	317	19650721				2	92
	28	SEP 67	747	-0.0020 *	317	19650721				2	93
	29	SEP 67	810	-0.0030 *	317	19650721				2	94
	02	OCT 67	1341	-0.0030 *	317	19650721				2	95
	03	OCT 67	812	-0.0020 *	317	19650721				2	96
	04	OCT 67	813	-0.0070 *	317	19650721				2	97
	05	OCT 67	803	-0.0080 *	317	19650721				2	98
	06	OCT 67	754	-0.0060 *	317	19650721				2	99

\* - COLLIMATION CORRECTION FACTOR (ROD UNIT PER ROD UNIT OF STADIA INTERVAL)  
 \$ - COLLIMATION ERROR (MM/M OR RADIANS X 1000)

RELEVELING                      RUN DATE: 24 OCT 84      TIME: 19:20  
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PROCESSING OPTIONS USED

" " REFRACTION CODE  
"2" POSITION CODE  
"A" REJECTION CODE  
" " MAGNETIC CODE

PERCENT OF RUNNINGS CORRECTED

100.0 LEVEL COLLIMATION  
100.0 ROD CALIBRATION  
    100.0 AVERAGE EXCESS  
      0.0 DETAILED CALIBRATION (FROM 43\* RECORDS)  
100.0 TEMPERATURE  
    0.0 PREDICTED TEMPERATURES  
   100.0 OBSERVED TEMPERATURES  
100.0 ASTRONOMIC  
    0.0 MAGNETIC  
100.0 REFRACTION  
    100.0 COMPUTED BY REDUC4  
      0.0 TAKEN FROM 43\* RECORDS (PREDICTED TEMPERATURES)  
      0.0 TAKEN FROM 43\* RECORDS (OBSERVED TEMPERATURES)

PREDICTED TEMPERATURES ARE COMPUTED FROM THE SOLAR RADIATION MODEL

NORMAL ORTHOMETRIC HEIGHTS HAVE BEEN COMPUTED BASED ON NORMAL GRAVITY  
(USC & GS SPECIAL PUBLICATION 240)

ASSUMED THERMAL EXPANSION VALUES WERE USED FOR SOME OR ALL OF THE RODS

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1.65 MM    STANDARD DEVIATION OF A 1 KM SINGLE RUN SECTION  
1.16 MM    STANDARD DEVIATION OF A 1 KM DOUBLE RUN SECTION  
702            SECTIONS USED TO COMPUTE STANDARD DEVIATIONS  
348.629 KM    MAIN LINE LENGTH  
29.428 KM    SPUR LINE LENGTH  
807.934 KM    UNREJECTED LEVELING  
392            BENCHMARKS  
311            TEMPORARY BENCHMARKS  
702            SECTIONS  
0              RIVER/VALLEY CROSSINGS  
1499            RUNNINGS  
0.1            PERCENT OF RUNNINGS REJECTED  
6.3            PERCENT RERUNS

