

Alberta Transportation NAD27 3TM Horizontal Data for 82J

Monument	Date	Elevation	Northing	Easting	Latitude	Longitude	Convergence	Scale	Combined
P-82J-1	1970	1457.523 M	5647942.391 M	-78151.662	50-57-52.211	115- 6-45.179	0-51-51.085	0.999975	0.999747
P-82J-2	1970	1718.460 M	5644575.607 M	-82073.883	50-56- 1.310	115-10- 3.413	0-54-23.647	0.999983	0.999714
P-82J-3	1970	1514.610 M	5640121.330 M	-79922.105	50-53-38.269	115- 8- 9.723	0-52-53.584	0.999978	0.999741
P-82J-4	1970	1576.334 M	5637018.747 M	-82864.882	50-51-56.387	115-10-37.745	0-54-47.131	0.999984	0.999737
P-82J-5	1970	1624.010 M	5631734.315 M	-81712.570	50-49- 5.986	115- 9-34.588	0-53-55.962	0.999982	0.999728
P-82J-6	1970	1786.520 M	5630117.295 M	-82748.405	50-48-13.134	115-10-26.184	0-54-35.274	0.999984	0.999704
P-82J-7	1970	1683.990 M	5623096.339 M	-79361.772	50-44-27.654	115- 7-27.805	0-52-14.229	0.999977	0.999714
P-82J-8	1970	1709.440 M	5616870.519 M	-79516.844	50-41- 6.119	115- 7-30.886	0-52-14.109	0.999978	0.999710
P-82J-9	1970	2382.440 M	5610542.937 M	-73097.511	50-37-44.389	115- 1-59.426	0-47-55.351	0.999966	0.999593
P-82J-10	1970	2206.752 M	5607134.798 M	-69986.173	50-35-55.473	114-59-18.825	0-45-50.001	0.999960	0.999615
P-82J-11	1970	2191.512 M	5606272.281 M	-69237.516	50-35-27.883	114-58-40.183	0-45-19.842	0.999959	0.999616
P-82J-12	1970	1978.213 M	5601811.379 M	-67808.123	50-33- 4.127	114-57-24.595	0-44-19.914	0.999956	0.999647
P-82J-13	1970	2510.330 M	5601665.797 M	-66493.116	50-32-59.959	114-56-17.710	0-43-28.221	0.999954	0.999954
P-82J-14	1970	1949.806 M	5600185.856 M	-66923.316	50-32-11.890	114-56-38.604	0-43-43.852	0.999955	0.999650
P-82J-15	1970	2264.300 M	5598380.515 M	-66806.886	50-31-13.514	114-56-31.529	0-43-37.780	0.999955	0.999600
P-82J-16	1970	1859.040 M	5653223.412 M	-73611.799	51- 0-45.245	115- 2-56.409	0-48-55.375	0.999966	0.999675
P-82J-17	1970	1765.676 M	5597941.767 M	-59135.583	50-31- 2.285	114-50- 1.883	0-38-36.920	0.999943	0.999666
P-82J-18	1970	1771.604 M	5595988.025 M	-57595.430	50-29-59.609	114-48-42.727	0-37-35.260	0.999941	0.999663
P-82J-20	1970	2055.480 M	5590159.861 M	-55991.381	50-26-51.552	114-47-18.099	0-36-28.311	0.999938	0.999617
P-82J-23	1970	1874.980 M	5583655.890 M	-47390.936	50-23-23.782	114-39-59.238	0-30-48.385	0.999928	0.999634
P-82J-24	1970	1530.066 M	5582940.200 M	-46235.607	50-23- 0.950	114-39- 0.435	0-30- 2.917	0.999926	0.999687
P-82J-25	1970	1618.427 M	5579404.522 M	-44850.458	50-21- 6.905	114-37-48.808	0-29- 6.940	0.999925	0.999671
P-82J-26	1970	1722.794 M	5575347.409 M	-43671.432	50-18-55.915	114-36-47.479	0-28-18.822	0.999923	0.999654
P-82J-27	1970	2362.410 M	5573604.128 M	-45443.633	50-17-59.012	114-38-16.298	0-29-26.771	0.999925	0.999555
P-82J-28	1970	2535.910 M	5572489.457 M	-37285.674	50-17-24.993	114-31-23.696	0-24- 9.115	0.999917	0.999520
P-82J-29	1970	1663.159 M	5571463.677 M	-41984.517	50-16-50.657	114-35-20.662	0-27-11.187	0.999922	0.999661
P-82J-30	1970	1757.041 M	5567217.005 M	-42197.976	50-14-33.157	114-35-29.740	0-27-17.262	0.999922	0.999647
P-82J-31	1970	1096.204 M	5513847.863 M	-31043.735	49-45-48.198	114-25-51.286	0-19-44.228	0.999912	0.999740
P-82J-32	1973	2434.440 M	5644851.393 M	-58793.838	50-56-20.465	114-50-11.450	0-38-58.334	0.999942	0.999561
P-82J-33	1970	1049.730 M	5640320.505 M	-4138.948	50-54- 4.557	114- 3-31.826	0- 2-44.390	0.999900	0.999736
P-82J-34	1970	1052.780 M	5639042.265 M	-3642.613	50-53-23.200	114- 3- 6.378	0- 2-24.617	0.999900	0.999735
P-82J-35	1970	1049.430 M	5637685.980 M	-1778.744	50-52-39.337	114- 1-30.988	0- 1-10.588	0.999900	0.999736
P-82J-36	1970	1061.320 M	0.000 M	0.000	50- 0- 0.000	114- 0- 0.000	0- 0- 0.000	0.999900	0.999900
P-82J-37	1970	1159.280 M	5639289.422 M	-9487.553	50-53-30.960	114- 8- 5.463	0- 6-16.699	0.999901	0.999720
P-82J-38	1970	1164.490 M	5639331.796 M	-10217.794	50-53-32.286	114- 8-42.832	0- 6-45.698	0.999901	0.999719
P-82J-39	1970	1191.950 M	5639330.836 M	-18310.121	50-53-31.536	114-15-36.903	0-12- 6.999	0.999904	0.999717
P-82J-40	1970	1204.260 M	5639374.938 M	-21718.477	50-53-32.539	114-18-31.311	0-14-22.336	0.999906	0.999717
P-82J-41	1972	1217.680 M	5639379.916 M	-26839.865	50-53-31.925	114-22-53.363	0-17-45.677	0.999909	0.999718
P-82J-42	1972	1247.270 M	5640044.693 M	-27156.998	50-53-53.386	114-23- 9.767	0-17-58.497	0.999909	0.999714
P-82J-43	1972	1243.070 M	5640412.438 M	-27306.979	50-54- 5.267	114-23-17.496	0-18- 4.546	0.999909	0.999715
P-82J-44	1972	1272.970 M	5640992.737 M	-27633.642	50-54-23.986	114-23-34.418	0-18-17.759	0.999909	0.999710
P-82J-45	1972	1295.220 M	5640974.480 M	-28291.150	50-54-23.281	114-24- 8.066	0-18-43.871	0.999910	0.999707
P-82J-46	1972	1311.370 M	5640996.294 M	-29532.461	50-54-23.763	114-25-11.606	0-19-33.188	0.999911	0.999705
P-82J-47	1972	1314.360 M	5641010.541 M	-29881.352	50-54-24.159	114-25-29.468	0-19-47.053	0.999911	0.999705
P-82J-48	1972	1329.540 M	5641023.693 M	-33945.075	50-54-23.777	114-28-57.465	0-22-28.483	0.999914	0.999706
P-82J-49	1972	1332.650 M	5641486.486 M	-34374.406	50-54-38.662	114-29-19.596	0-22-45.739	0.999914	0.999706
P-82J-50	1972	1347.000 M	5641513.729 M	-35915.646	50-54-39.206	114-30-38.497	0-23-46.983	0.999916	0.999705
P-82J-51	1972	1360.540 M	5642442.336 M	-37057.132	50-55- 8.999	114-31-37.266	0-24-32.771	0.999917	0.999704
P-82J-52	1972	1364.220 M	5642444.689 M	-37338.045	50-55- 9.010	114-31-51.648	0-24-43.935	0.999917	0.999703
P-82J-53	1972	1321.430 M	5642708.871 M	-38834.903	50-55-17.204	114-33- 8.383	0-25-43.552	0.999918	0.999712
P-82J-54	1972	1347.340 M	5642734.358 M	-41200.918	50-55-17.438	114-35- 9.528	0-27-17.597	0.999921	0.999710
P-82J-55	1972	1321.427 M	5642701.071 M	-39297.641	50-55-16.838	114-33-32.071	0-26- 1.938	0.999919	0.999712
P-82J-56	1972	1335.186 M	5643951.614 M	-39297.224	50-55-57.309	114-33-32.535	0-26- 2.547	0.999919	0.999710
P-82J-57	1979	1331.382 M	5644902.644 M	-39275.155	50-56-28.096	114-33-31.778	0-26- 2.149	0.999919	0.999710
P-82J-58	1979	1318.080 M	5645730.947 M	-39289.209	50-56-54.898	114-33-32.820	0-26- 3.123	0.999919	0.999713
P-82J-59	1979	1296.226 M	5646050.887 M	-39281.901	50-57- 5.254	114-33-32.570	0-26- 2.992	0.999919	0.999716
P-82J-60	1979	1286.332 M	5647063.669 M	-38645.003	50-57-38.184	114-33- 0.327	0-25-38.151	0.999918	0.999717
P-82J-61	1979	1273.071 M	5648249.575 M	-37522.598	50-58-16.829	114-32- 3.254	0-24-54.048	0.999917	0.999718
P-82J-62	1979	1253.962 M	5649551.409 M	-35593.852	50-58-59.400	114-30-24.857	0-23-37.846	0.999916	0.999719
P-82J-63	1979	1246.248 M	5650282.243 M	-34827.038	50-59-23.220	114-29-45.797	0-23- 7.628	0.999915	0.999720
P-82J-64	1979	1237.807 M	5651279.425 M	-34483.223	50-59-55.565	114-29-28.509	0-22-54.369	0.999915	0.999721
P-82J-65	1979	1233.512 M	5651894.059 M	-34133.825	51- 0-15.531	114-29-10.799	0-22-40.713	0.999914	0.999721
P-82J-66	1979	1228.991 M	5652302.938 M	-33757.178	51- 0-28.843	114-28-51.617	0-22-25.875	0.999914	0.999722
P-82J-67	1979	1228.980 M	5652644.506 M	-32675.531	51- 0-40.122	114-27-56.246	0-21-42.896	0.999913	0.999721
P-82J-68	1973	2124.060 M	5608771.195 M	-75614.946	50-36-45.896	115- 4- 6.193	0-49-32.660	0.999970	0.999638

P-82J-69	1973	1698.740	M	5611989.734	M	-78643.818	50-38-28.604	115- 6-42.683	0-51-34.876	0.999976	0.999710
P-82J-70	1973	1950.320	M	5605488.234	M	-75531.026	50-34-59.699	115- 3-59.523	0-49-26.250	0.999970	0.999665
P-82J-71	1973	1923.260	M	5604793.077	M	-75525.733	50-34-37.206	115- 3-58.746	0-49-25.384	0.999970	0.999669
P-82J-72	1973	1895.000	M	5604124.699	M	-75488.399	50-34-15.595	115- 3-56.360	0-49-23.286	0.999970	0.999673
P-82J-73	1973	1887.440	M	5603860.352	M	-75550.204	50-34- 7.012	115- 3-59.308	0-49-25.461	0.999970	0.999674
P-82J-74	1973	1870.860	M	5604930.958	M	-75583.054	50-33-55.140	115- 4- 0.709	0-49-26.403	0.999970	0.999677
P-82J-75	1973	1709.990	M	5601537.639	M	-75866.463	50-32-51.701	115- 4-13.673	0-49-35.663	0.999971	0.999703
P-82J-76	1973	1580.473	M	5580944.361	M	-45454.696	50-21-56.575	114-38-20.041	0-29-31.342	0.999925	0.999678
P-82J-77	1973	1623.212	M	5577679.052	M	-44341.232	50-20-11.199	114-37-22.319	0-28-46.157	0.999924	0.999670
P-82J-78	1973	1667.354	M	5571526.155	M	-42820.181	50-16-52.464	114-36- 2.895	0-27-43.684	0.999922	0.999661
P-82J-79	1973	1847.125	M	5567217.005	M	-42197.976	50-14-33.157	114-38-29.740	0-29-35.640	0.999922	0.999633
P-82J-80	1973	1993.420	M	5562865.489	M	-42812.083	50-12-12.157	114-35-58.966	0-27-38.786	0.999922	0.999610
P-82J-81	1973	2489.210	M	5562292.687	M	-37213.287	50-11-54.980	114-31-16.437	0-24- 1.610	0.999917	0.999527
P-82J-82	1973	2481.070	M	5561973.972	M	-37114.547	50-11-44.687	114-31-11.346	0-23-57.639	0.999917	0.999528
P-82J-83	1973	2467.390	M	5561888.555	M	-37079.569	50-11-41.930	114-31- 9.552	0-23-56.245	0.999917	0.999531
P-82J-84	1973	1947.596	M	5561110.188	M	-38047.743	50-11-16.516	114-31-58.085	0-24-33.379	0.999918	0.999613
P-82J-85	1973	1862.950	M	5559272.180	M	-32732.645	50-10-18.169	114-27-29.579	0-21- 6.826	0.999913	0.999621
P-82J-86	1973	1845.771	M	5559013.717	M	-32686.641	50-10- 9.812	114-27-27.180	0-21- 4.941	0.999913	0.999624
P-82J-87	1973	1849.456	M	5558608.018	M	-32483.499	50- 9-56.721	114-27-16.819	0-20-56.917	0.999913	0.999623
P-82J-88	1973	1806.678	M	5558030.775	M	-32420.193	50- 9-38.050	114-27-13.453	0-20-54.238	0.999913	0.999630
P-82J-89	1973	1786.509	M	5556747.400	M	-32142.485	50- 8-56.565	114-26-59.071	0-20-42.986	0.999913	0.999633
P-82J-90	1973	1753.548	M	5556215.699	M	-31916.473	50- 8-39.400	114-26-47.527	0-20-34.038	0.999912	0.999638
P-82J-91	1973	1722.910	M	5554603.215	M	-31037.847	50- 7-47.376	114-26- 2.803	0-19-59.452	0.999912	0.999642
P-82J-92	1973	1715.823	M	5554182.192	M	-30901.777	50- 7-33.774	114-25-55.829	0-19-54.034	0.999912	0.999643
P-82J-93	1973	1715.168	M	5552936.751	M	-30853.861	50- 6-53.472	114-25-53.054	0-19-51.709	0.999912	0.999643
P-82J-94	1973	1654.912	M	5549759.886	M	-30580.649	50- 5-10.696	114-25-38.387	0-19-39.963	0.999911	0.999652
P-82J-95	1973	1659.950	M	5548679.467	M	-30744.054	50- 4-35.695	114-25-46.295	0-19-45.860	0.999912	0.999652
P-82J-96	1973	1635.703	M	5548284.764	M	-30524.413	50- 4-22.961	114-25-35.135	0-19-37.241	0.999911	0.999655
P-82J-97	1973	1627.450	M	5547337.896	M	-30750.745	50- 3-52.271	114-25-46.243	0-19-45.612	0.999912	0.999657
P-82J-98	1973	1620.286	M	5546916.508	M	-30514.655	50- 3-38.675	114-25-34.252	0-19-36.352	0.999911	0.999658
P-82J-99	1973	1579.870	M	5542704.155	M	-30495.129	50- 1-22.335	114-25-32.064	0-19-34.024	0.999911	0.999664
P-82J-100	1973	1550.975	M	5541146.323	M	-29596.623	50- 0-32.074	114-24-46.493	0-18-58.870	0.999911	0.999668
P-82J-101	1973	1542.593	M	5539603.448	M	-28917.098	49-56-42.254	114-24-11.947	0-18-31.363	0.999910	0.999669
P-82J-103	1973	1772.531	M	5559774.048	M	-57375.210	50-29-52.763	114-48-31.333	0-37-26.060	0.999940	0.999663
P-82J-104	1973	1755.800	M	5595418.230	M	-57224.381	50-29-41.300	114-48-23.485	0-37-20.248	0.999940	0.999665
P-82J-105	1973	1708.380	M	5593375.056	M	-56187.138	50-28-35.538	114-46-29.757	0-35-51.932	0.999939	0.999671
P-82J-106	1973	1681.730	M	5592142.792	M	-55397.249	50-27-55.929	114-46-49.042	0-36- 6.464	0.999938	0.999674
P-82J-107	1973	1665.190	M	5591455.404	M	-54753.256	50-27-33.901	114-46-16.028	0-35-40.813	0.999937	0.999676
P-82J-108	1973	1681.816	M	5590794.548	M	-54078.830	50-27-12.738	114-45-41.494	0-35-14.002	0.999936	0.999673
P-82J-109	1973	1695.517	M	5589795.705	M	-53165.708	50-26-40.712	114-44-54.699	0-34-37.651	0.999935	0.999669
P-82J-110	1973	1677.796	M	5588689.398	M	-52590.417	50-26- 5.095	114-44-24.984	0-34-14.447	0.999934	0.999671
P-82J-111	1973	1664.583	M	5588288.746	M	-52324.345	50-25-52.214	114-44-11.301	0-34- 3.793	0.999934	0.999673
P-82J-112	1973	1653.936	M	5587991.067	M	-52254.159	50-25-42.602	114-44- 7.596	0-34- 0.858	0.999933	0.999675
P-82J-113	1973	1654.756	M	5587593.701	M	-51946.114	50-25-29.840	114-43-51.791	0-33-48.571	0.999933	0.999674
P-82J-114	1973	1668.469	M	5587514.718	M	-51739.891	50-25-27.350	114-43-41.305	0-33-40.469	0.999933	0.999672
P-82J-115	1973	1681.822	M	5587451.370	M	-51517.947	50-25-25.370	114-43-30.030	0-33-31.762	0.999933	0.999669
P-82J-116	1973	1685.760	M	5587453.035	M	-51392.304	50-25-25.463	114-43-23.666	0-33-26.857	0.999932	0.999668
P-82J-117	1973	1872.570	M	5583688.966	M	-47477.643	50-23-24.828	114-40- 3.642	0-30-51.785	0.999928	0.999634
P-82J-118	1973	1816.870	M	5598209.984	M	-60630.351	50-31-10.415	114-51-17.910	0-39-35.677	0.999945	0.999661
P-82J-119	1973	1867.467	M	5598668.790	M	-62852.934	50-31-24.419	114-53-11.003	0-41- 3.107	0.999948	0.999656
P-82J-120	1973	1877.477	M	5598620.340	M	-63003.219	50-31-22.793	114-53-18.603	0-41- 8.957	0.999949	0.999655
P-82J-121	1973	1886.398	M	5598371.311	M	-63531.898	50-31-14.529	114-53-45.287	0-41-29.472	0.999949	0.999654
P-82J-122	1973	1884.652	M	5598262.079	M	-63775.656	50-31-10.898	114-53-57.593	0-41-38.935	0.999950	0.999655
P-82J-123	1973	1874.843	M	5598161.452	M	-63967.172	50-31- 8.214	114-54- 7.264	0-41-46.373	0.999950	0.999657
P-82J-124	1973	1857.143	M	5598078.898	M	-64534.298	50-31- 4.671	114-54-35.986	0-42- 8.506	0.999951	0.999660
P-82J-125	1973	1882.161	M	5598522.603	M	-65401.484	50-31-18.684	114-55-20.281	0-42-42.838	0.999952	0.999658
P-82J-126	1973	1895.408	M	5598677.921	M	-65528.494	50-31-23.659	114-55-26.827	0-42-47.942	0.999953	0.999656
P-82J-127	1973	1944.219	M	5599600.084	M	-66364.580	50-31-53.162	114-56- 9.858	0-43-21.464	0.999954	0.999650
P-82J-128	1973	1962.504	M	5599960.555	M	-66677.468	50-32- 4.700	114-56-25.976	0-43-34.028	0.999955	0.999647
P-82J-129	1973	1958.913	M	5600096.032	M	-66808.584	50-32- 9.030	114-56-32.721	0-43-39.280	0.999955	0.999648
P-82J-130	1973	1935.742	M	5600415.790	M	-67183.615	50-32-19.223	114-56-51.970	0-43-54.248	0.999955	0.999652
P-82J-131	1973	1955.804	M	5600957.021	M	-67358.030	50-32-36.666	114-57- 1.179	0-44- 1.542	0.999956	0.999649
P-82J-132	1973	1975.957	M	5601541.750	M	-67763.174	50-32-55.420	114-57-22-136	0-44-17.923	0.999956	0.999647
P-82J-133	1977	1849.400	M	5599433.180	M	-32824.590	50-10-23.361	114-27-34.262	0-21-10.449	0.999913	0.999624
P-82J-134	1977	1847.669	M	5599890.600	M	-33200.600	50-10-38.092	114-27-53.359	0-21-25.192	0.999914	0.999624
P-82J-135	1977	1867.100	M	5599695.550	M	-33524.860	50-10-31.713	114-28- 9.636	0-21-37.659	0.999914	0.999621
P-82J-136	1977	1890.800	M	5560194.700	M	-32597.200	50-10-48.055	114-27-23-040	0-21- 1.956	0.999913	0.999617
P-82J-137	1977	1894.500	M	5560395.025	M	-31967.361	50-10-54.662	114-26-51.353	0-20-37.652	0.999913	0.999616
P-82J-138	1977	1905.158	M	5560723.238	M	-31494.416	50-11- 5.376	114-26-27-612	0-20-19.469	0.999912	0.999614
P-82J-139	1977	2078.000	M	5562471.950	M	-31586.770	50-12- 1.959	114-26-32.791	0-20-23.727	0.999912	0.999587
P-82J-140	1977	1545.400	M	0.000	M	0.000	50- 0- 0.000	114- 0- 0.000	0- 0- 0.000	0.999900	0.999900
P-82J-141	1977	1415.100	M	5570189.426	M	-21798.558	50-16-13.339	114-18-20.818	0-14- 6.606	0.999906	0.999684

P-82J-142	1977	1375.300	M	5570349.188	M	-20457.891	50-16-18.682	114-17-13-147	0-13-14.579	0.999905	0.999690
P-82J-143	1977	1366.000	M	5571600.008	M	-17256.621	50-16-59.536	114-14-31.687	0-11-10.513	0.999904	0.999690
P-82J-145	1978	1734.460	M	5619612.118	M	-77943.982	50-42-35.595	115- 6-12-851	0-51-14.824	0.999975	0.999703
P-82J-146	1978	1771.100	M	5616989.341	M	-79962.623	50-41- 9.739	115- 7-53.678	0-52-31.788	0.999978	0.999701
P-82J-147	1978	1674.910	M	5617475.018	M	-79878.883	50-41-25.497	115- 7-49.791	0-52-28.978	0.999978	0.999716
P-82J-148	1978	1951.060	M	5617052.960	M	-82491.504	50-41-10.528	115-10- 2.535	0-54-11.497	0.999983	0.999678
P-82J-149	1973	1772.960	M	5618197.393	M	-82804.955	50-41-47.399	115-10-19.423	0-54-25.042	0.999984	0.999706
P-82J-150	1973	1778.080	M	5618934.362	M	-83814.706	50-42-10.725	115-11-11.466	0-55- 5.620	0.999986	0.999708
P-82J-151	1973	1753.760	M	5619768.249	M	-84740.070	50-42-37.226	115-11-59.302	0-55-42.992	0.999988	0.999713
P-82J-152	1973	1774.270	M	5621323.710	M	-85861.752	50-43-26.964	115-12-57.765	0-56-28.910	0.999990	0.999713
P-82J-153	1978	2300.050	M	5621650.933	M	-84443.318	50-43-38.300	115-11-45.731	0-55-33.296	0.999987	0.999627
P-82J-154	1978	2481.320	M	5632383.424	M	-95931.982	50-49-19.137	115-21-41.441	1- 3-19.604	1.000013	0.999624
P-82J-155	1973	1849.100	M	5626540.942	M	-89777.865	50-46-13.646	115-16-21.957	0-59- 9.327	0.999999	0.999709
P-82J-156	1973	1893.200	M	5628176.693	M	-91259.107	50-47- 5.741	115-17-38.995	1- 0- 9.749	1.000002	0.999706
P-82J-157	1973	1862.500	M	5631166.469	M	-93447.913	50-48-41.223	115-19-33.444	1- 1-39.823	1.000007	0.999715
P-82J-158	1973	1828.800	M	5634153.801	M	-94433.989	50-50-17.304	115-20-26.567	1- 2-22.419	1.000009	0.999723
P-82J-159	1973	1152.100	M	5636687.092	M	-95167.087	50-51-38.836	115-21- 6.393	1- 2-54.515	1.000011	0.999831
P-82J-160	1973	1748.640	M	5640080.746	M	-94699.365	50-53-28.914	115-20-45.646	1- 2-40.054	1.000010	0.999736
P-82J-161	1978	1706.450	M	5649357.788	M	-92669.705	50-58-30.257	115-19-10.307	1- 1-30.446	1.000005	0.999738
P-82J-170	1978	1504.521	M	5583004.428	M	-45397.905	50-23- 3.264	114-38-18.062	0-29-30.292	0.999925	0.999690
P-82J-171	1978	1559.080	M	5583753.770	M	-43924.279	50-23-27.919	114-37- 3.786	0-28-33.243	0.999924	0.999680
P-82J-172	1978	1493.860	M	5583809.129	M	-41462.743	50-23-30.354	114-34-59.193	0-26-57.269	0.999921	0.999687
P-82J-173	1978	1444.402	M	5585350.715	M	-36657.717	50-24-21.396	114-30-56.475	0-23-50.565	0.999916	0.999690
P-82J-174	1979	1333.200	M	5642714.630	M	-40929.480	50-55-16.866	114-34-55.624	0-27- 6.799	0.999921	0.999712
P-82J-175	1979	1347.500	M	5642716.560	M	-41221.460	50-55-16.853	114-35-10.573	0-27-18.404	0.999921	0.999710
P-82J-176	1979	1350.600	M	5642743.080	M	-42267.820	50-55-17.439	114-36- 4.156	0-28- 0.004	0.999922	0.999710
P-82J-177	1979	1343.900	M	5642335.820	M	-42876.340	50-55- 4.098	114-36-35.138	0-28-23.965	0.999923	0.999712
P-82J-178	1979	1349.700	M	5642034.550	M	-43419.250	50-54-54.202	114-37- 2.803	0-28-45.373	0.999923	0.999712
P-82J-179	1979	1354.200	M	5641858.150	M	-43710.640	50-54-48.414	114-37-17.643	0-28-56.853	0.999923	0.999711
P-82J-180	1979	1351.800	M	5641868.510	M	-43917.000	50-54-48.693	114-37-28.211	0-29- 5.058	0.999924	0.999712
P-82J-181	1979	1372.100	M	5641699.970	M	-44880.950	50-54-42.972	114-38-17.480	0-29-43.260	0.999925	0.999710
P-82J-182	1979	1398.500	M	5641265.790	M	-46383.040	50-54-28.494	114-39-34.169	0-30-42.680	0.999926	0.999707
P-82J-183	1979	1407.900	M	5640736.780	M	-46853.510	50-54-11.238	114-39-58.005	0-31- 1.054	0.999927	0.999706
P-82J-184	1979	1405.500	M	5640490.160	M	-48665.690	50-54- 2.718	114-41-30.628	0-32-12.873	0.999929	0.999709
P-82J-185	1979	1417.300	M	5640372.610	M	-49034.360	50-53-58.801	114-41-49.438	0-32-27.441	0.999929	0.999708
P-82J-186	1979	1467.300	M	5637169.330	M	-51063.930	50-52-14.506	114-43-31.686	0-33-45.958	0.999932	0.999702
P-82J-187	1979	1484.900	M	5636756.130	M	-52288.470	50-52- 0.741	114-44-34.098	0-34-34.260	0.999934	0.999701
P-82J-188	1979	1531.800	M	5636987.130	M	-54380.930	50-52- 7.522	114-46-21.222	0-35-57.414	0.999936	0.999696
P-82J-189	1979	1522.500	M	5636145.180	M	-55887.100	50-51-39.758	114-47-37.782	0-36-56.560	0.999938	0.999700
P-82J-190	1979	1702.700	M	5633312.270	M	-57621.420	50-50- 7.471	114-49- 4.853	0-38- 3.263	0.999941	0.999674
P-82J-191	1979	1748.500	M	5632461.850	M	-56802.480	50-49-39.918	114-48-22.524	0-37-30.198	0.999940	0.999666
P-82J-192	1979	1658.400	M	5632047.720	M	-56488.480	50-49-26.951	114-48- 6.262	0-37-17.476	0.999939	0.999679
P-82J-193	1979	1601.300	M	5629872.810	M	-59108.360	50-48-15.627	114-50-18.945	0-38-59.676	0.999943	0.999692
P-82J-194	1979	1608.200	M	5629979.080	M	-59384.830	50-48-18.965	114-50-33.024	0-39-10.618	0.999943	0.999691
P-82J-195	1979	1705.900	M	5632162.050	M	-61240.530	50-49-28.912	114-52- 9.101	0-40-25.750	0.999946	0.999679
P-82J-196	1979	1809.500	M	5634120.150	M	-62071.160	50-50-31.959	114-52-52.730	0-41- 0.186	0.999947	0.999664
P-82J-197	1979	1823.000	M	5634330.010	M	-62127.970	50-50-38.728	114-52-55.762	0-41- 2.603	0.999947	0.999662
P-82J-198	1979	1846.800	M	5634606.080	M	-62042.280	50-50-47.694	114-52-51.550	0-40-59.423	0.999947	0.999651
P-82J-199	1979	1730.900	M	5636488.700	M	-62541.720	50-51-48.423	114-53-18.235	0-41-20.711	0.999948	0.999677
P-82J-200	1979	1682.500	M	5638100.730	M	-62518.950	50-52-40.597	114-53-18.063	0-41-21.088	0.999948	0.999685
P-82J-201	1979	1762.000	M	5640556.650	M	-64026.270	50-53-59.476	114-54-36.705	0-42-22.891	0.999950	0.999674
P-82J-202	1979	1762.200	M	5641004.550	M	-64246.320	50-54-13.882	114-54-48.249	0-42-31.995	0.999951	0.999675
P-82J-203	1979	1791.300	M	5643040.810	M	-64697.120	50-55-19.593	114-55-12.618	0-42-51.573	0.999951	0.999671
P-82J-204	1979	1796.600	M	5643564.360	M	-64991.870	50-55-36.416	114-55-28.043	0-43- 3.719	0.999952	0.999671
P-82J-205	1979	1817.800	M	5644083.360	M	-65200.360	50-55-53.125	114-55-39.052	0-43-12.436	0.999952	0.999661
P-82J-206	1979	1870.600	M	5645105.890	M	-65882.050	50-56-25.935	114-56-14.623	0-43-40.392	0.999953	0.999660
P-82J-207	1979	1771.700	M	5647583.520	M	-67012.420	50-57-45.640	114-57-14.155	0-44-27.456	0.999955	0.999671
P-82J-208	1979	1712.000	M	5649968.800	M	-66883.170	50-59- 2.879	114-57- 9.111	0-44-24.346	0.999955	0.999687
P-82J-209	1979	0.000	M	5651501.270	M	-65816.950	50-59-52.910	114-56-15.453	0-43-43.170	0.999953	0.999953
P-82J-218	1979	1488.000	M	5647265.180	M	-40241.080	50-57-44.304	114-34-22.188	0-26-41.772	0.999920	0.999687
P-82J-219	1978	1287.990	M	5603137.875	M	-21183.961	50-33-59.825	114-17-56.469	0-13-51.426	0.999906	0.999704
P-82J-220	1978	1322.100	M	5603572.882	M	-21170.176	50-34-13.906	114-17-55.858	0-13-51.001	0.999905	0.999698
P-82J-221	1978	1267.790	M	5602908.523	M	-18896.926	50-33-52.684	114-16- 0.213	0-12-21.613	0.999904	0.999706
P-82J-222	1978	1293.820	M	5602894.707	M	-17222.544	50-33-52.423	114-14-35.130	0-11-15.899	0.999904	0.999701
P-82J-223	1978	1302.200	M	5602901.877	M	-16375.108	50-33-52.743	114-13-52.071	0-10-42.644	0.999903	0.999699
P-82J-224	1978	1496.000	M	5651849.399	M	-53749.594	51- 0- 8.695	114-45-56.829	0-35-42.544	0.999935	0.999701
P-82J-225	1978	1504.700	M	5651739.567	M	-53709.918	51- 0- 5.154	114-45-54.736	0-35-40.888	0.999935	0.999700
P-82J-226	1978	1522.000	M	5651363.924	M	-53558.085	50-59-53.049	114-45-46.750	0-35-34.580	0.999935	0.999697
P-82J-227	1978	1614.900	M	5651384.055	M	-54700.105	50-59-53.314	114-46-45.324	0-36-20.102	0.999937	0.999684
P-82J-228	1978	1525.600	M	5651280.995	M	-52105.600	50-59-50.845	114-44-32.223	0-34-36.644	0.999933	0.999694
P-82J-229	1978	1636.900	M	5648294.039	M	-50496.048	50-58-14.701	114-43- 8.191	0-33-30.581	0.999931	0.999675
P-82J-230	1978	1617.400	M	5648153.246	M	-50415.542	50-58-10.171	114-43- 3.995	0-33-27.286	0.999931	0.999678

P-82J-231	1978	1644.600	M	5648092.859	M	-50509.705	50-58- 8.187	114-43- 8.791	0-33-30.995	0.999931	0.999674
P-82J-232	1978	1753.100	M	5640146.943	M	-52789.063	50-53-50.315	114-45- 1.463	0-34-56.393	0.999934	0.999660
P-82J-233	1978	1475.000	M	5645903.265	M	-49187.073	50-56-57.741	114-41-59.942	0-32-36.970	0.999930	0.999699
P-82J-234	1980	1743.000	M	5640230.393	M	-52780.484	50-53-53.019	114-45-1.068	0-34-56.108	0.999934	0.999661
P-82J-235	1980	1680.300	M	5633213.874	M	-42154.017	50-50- 9.092	114-35-54.381	0-27-50.384	0.999922	0.999659
P-82J-236	1980	1574.400	M	5623415.581	M	-40500.597	50-44-52.418	114-34-25.997	0-26-39.850	0.999920	0.999674
P-82J-237	1979	1361.100	M	5623415.528	M	-38201.875	50-44-52.977	114-32-28.742	0-25- 9.054	0.999918	0.999705
P-82J-238	1980	1597.900	M	5623028.961	M	-41566.813	50-44-39.634	114-35-20.226	0-27-21.761	0.999921	0.999671
P-82J-239	1980	1537.600	M	5620034.541	M	-43838.028	50-43- 2.125	114-37-14.787	0-28-49.801	0.999924	0.999683
P-82J-240	1980	1839.100	M	5616528.270	M	-45906.501	50-41- 8.078	114-38-58.659	0-30- 9.383	0.999926	0.999639
P-82J-241	1980	1623.846	M	5616183.334	M	-47520.537	50-40-56.449	114-40-20.719	0-31-12.786	0.999928	0.999673
P-82J-242	1979	1926.700	M	5615230.093	M	-46709.241	50-40-25.836	114-39-38.961	0-30-40.256	0.999927	0.999625
P-82J-243	1979	1579.900	M	5614228.311	M	-48101.121	50-39-53.007	114-40-49.337	0-31-34.480	0.999928	0.999681
P-82J-244	1979	1760.500	M	5613010.002	M	-46758.993	50-39-13.973	114-39-40.485	0-30-40.909	0.999927	0.999651
P-82J-245	1979	1504.384	M	5612186.648	M	-46051.344	50-38-47.529	114-39- 4.093	0-30-12.575	0.999926	0.999690
P-82J-246	1979	1515.867	M	5612321.498	M	-45365.225	50-38-52.087	114-38-29.230	0-29-45.649	0.999925	0.999688
P-82J-247	1979	1740.900	M	5613747.177	M	-40395.001	50-39-39.543	114-34-16.805	0-26-30.756	0.999920	0.999647
P-82J-248	1979	1423.690	M	5611151.329	M	-35697.796	50-38-16.636	114-30-16.747	0-23-24.629	0.999916	0.999693
P-82J-249	1979	1414.846	M	5610928.814	M	-35384.527	50-38- 9.503	114-30- 0.728	0-23-12.204	0.999915	0.999694
P-82J-250	1979	1429.400	M	5611171.306	M	-35005.484	50-38-17.434	114-29-41.522	0-22-57.398	0.999915	0.999691
P-82J-251	1979	1432.100	M	5611323.262	M	-34812.266	50-38-22.393	114-29-31.740	0-22-49.862	0.999915	0.999691
P-82J-252	1979	1445.900	M	5611667.991	M	-34586.987	50-38-33.598	114-29-20.391	0-22-41.148	0.999915	0.999688
P-82J-253	1979	1441.800	M	5611796.080	M	-34169.873	50-38-37.832	114-28-59.204	0-22-24.789	0.999914	0.999689
P-82J-254	1979	1411.000	M	5611736.293	M	-33206.695	50-38-36.098	114-28-10.162	0-21-46.859	0.999914	0.999693
P-82J-255	1979	1498.200	M	5612045.594	M	-29746.025	50-38-46.781	114-25-14.116	0-19-30.787	0.999911	0.999676
P-82J-256	1979	1348.454	M	5611662.027	M	-28205.166	50-38-34.642	114-23-55.581	0-18-30.006	0.999910	0.999699
P-82J-257	1979	1344.400	M	5614833.988	M	-22445.887	50-40-18.202	114-19- 3.145	0-14-44.255	0.999906	0.999696
P-82J-260	1979	1682.900	M	5611418.883	M	-47906.669	50-38-22.144	114-40-38.168	0-31-25.129	0.999928	0.999655
P-82J-261	1979	1533.247	M	5611268.892	M	-46365.963	50-38-17.738	114-39-19.693	0-30-24.422	0.999926	0.999686
P-82J-262	1979	1552.915	M	5610294.786	M	-48647.574	50-37-45.544	114-41-15.342	0-31-53.593	0.999929	0.999686
P-82J-263	1979	1843.800	M	5608495.456	M	-49162.235	50-36-47.157	114-41-40.670	0-32-12.724	0.999930	0.999641
P-82J-264	1979	1587.187	M	5608004.084	M	-50757.444	50-36-30.763	114-43- 1.562	0-33-15.114	0.999932	0.999683
P-82J-265	1979	2207.300	M	5605999.139	M	-53355.018	50-35-25.044	114-45-12.629	0-34-55.860	0.999935	0.999589
P-82J-266	1979	1592.500	M	5610155.322	M	-47008.776	50-37-41.514	114-39-51.898	0-30-49.055	0.999927	0.999678
P-82J-267	1979	1557.011	M	5610611.103	M	-45884.513	50-37-56.587	114-38-54.900	0-30- 5.101	0.999926	0.999682
P-82J-268	1979	1547.336	M	5610746.873	M	-45544.689	50-38- 1.077	114-38-37.669	0-29-51.811	0.999925	0.999683
P-82J-269	1979	1496.062	M	5610992.284	M	-44926.158	50-38- 9.192	114-38- 6.302	0-29-27.618	0.999925	0.999691
P-82J-270	1979	1529.650	M	5611297.526	M	-44160.659	50-38-19.281	114-37-27.475	0-28-57.669	0.999924	0.999684
P-82J-271	1979	1523.515	M	5611546.209	M	-43542.820	50-38-27.497	114-36-56.142	0-28-33.499	0.999923	0.999685
P-82J-272	1979	1512.214	M	5611599.762	M	-43412.693	50-38-29.265	114-36-49.543	0-28-28.409	0.999923	0.999686
P-82J-273	1979	1468.329	M	5611976.427	M	-42167.811	50-38-41.784	114-35-46.341	0-27-39.624	0.999922	0.999692
P-82J-274	1979	1474.601	M	5612388.190	M	-40829.560	50-38-55.453	114-34-38.391	0-26-47.170	0.999920	0.999690
P-82J-275	1979	1452.600	M	5612773.049	M	-39724.616	50-39- 8.183	114-33-42.297	0-26- 3.872	0.999919	0.999692
P-82J-276	1979	1295.024	M	5646190.964	M	-39174.532	50-57- 9.813	114-33-27.123	0-25-58.790	0.999919	0.999716
P-82J-277	1979	1332.600	M	5645954.967	M	-40128.917	50-57- 1.940	114-34-15.925	0-26-36.642	0.999920	0.999711
P-82J-278	1979	1327.200	M	5645954.564	M	-40736.807	50-57- 1.799	114-34-47.068	0-27- 0.827	0.999920	0.999713
P-82J-279	1979	1324.619	M	5645927.883	M	-41377.779	50-57- 0.745	114-35-19.893	0-27-26.312	0.999921	0.999714
P-82J-280	1979	1337.096	M	5645962.047	M	-42250.186	50-57- 1.623	114-36- 4.601	0-28- 1.038	0.999922	0.999713
P-82J-281	1979	1363.007	M	5645980.470	M	-44353.457	50-57- 1.651	114-37-52.358	0-29-24.724	0.999924	0.999711
P-82J-282	1979	1388.188	M	5646002.559	M	-46065.667	50-57- 1.882	114-39-20.084	0-30-32.854	0.999926	0.999709
P-82J-283	1979	1679.600	M	5614285.297	M	-39824.657	50-39-57.100	114-33-47.974	0-26- 8.567	0.999919	0.999656
P-82J-284	1979	1422.200	M	5616265.564	M	-38630.960	50-41- 1.478	114-32-47.936	0-25-22.519	0.999918	0.999696
P-82J-285	1979	1455.900	M	5617618.293	M	-38145.615	50-41-45.372	114-32-23.715	0-25- 4.042	0.999918	0.999690
P-82J-286	1979	1502.300	M	5619008.456	M	-38990.870	50-42-30.161	114-33- 7.311	0-25-38.050	0.999919	0.999683
P-82J-287	1979	1554.300	M	5619834.755	M	-41154.895	50-42-56.366	114-34-57.934	0-27- 3.834	0.999921	0.999677
P-82J-288	1979	1473.900	M	5620006.922	M	-39503.671	50-43- 2.350	114-33-33.831	0-25-58.774	0.999919	0.999688
P-82J-289	1979	1554.300	M	5619994.771	M	-38422.171	50-43- 2.218	114-32-38.696	0-25-16.096	0.999918	0.999675
P-82J-290	1979	1550.800	M	5622338.788	M	-39142.090	50-44-17.905	114-33-16.290	0-25-45.659	0.999919	0.999676
P-82J-301	1979	1358.400	M	5603297.153	M	-23942.903	50-34- 4.601	114-20-16.705	0-15-39.758	0.999907	0.999694
P-82J-314	1979	1587.098	M	5592689.517	M	-39133.246	50-28-18.341	114-33- 4.595	0-25-30.745	0.999919	0.999670
P-82J-315	1979	1602.296	M	5592381.879	M	-39780.436	50-28- 8.228	114-33-37.298	0-25-55.906	0.999919	0.999669
P-82J-316	1981	1163.500	M	5618278.492	M	-11468.670	50-42-10.834	114- 9-44.477	0- 7-32.311	0.999902	0.999719
P-82J-317	1981	1150.284	M	5618238.015	M	-7536.849	50-42- 9.755	114- 6-24.099	0- 4-57.243	0.999901	0.999721
P-82J-318	1981	1217.760	M	5623150.271	M	-6499.978	50-44-48.784	114- 5-31.570	0- 4-16.754	0.999901	0.999710
P-82J-319	1981	1186.324	M	5624338.626	M	-4946.370	50-45-27.299	114- 4-12.378	0- 3-15.641	0.999900	0.999715
P-82J-320	1981	1257.860	M	5626364.305	M	-7325.818	50-46-32.769	114- 6-13.926	0- 4-49.672	0.999901	0.999704
P-82J-321	1981	1187.320	M	5627562.553	M	-4945.226	50-47-11.640	114- 4-12.475	0- 3-15.617	0.999900	0.999714
P-82J-322	1981	1150.100	M	5629593.783	M	-4114.120	50-48-17.402	114- 3-30.126	0- 2-42.847	0.999900	0.999720
P-82J-323	1981	1130.100	M	5630620.464	M	-6549.277	50-48-50.550	114- 5-34.563	0- 4-19.320	0.999901	0.999724
P-82J-324	1981	1135.400	M	5632845.785	M	-7732.315	50-50- 2.518	114- 6-35.165	0- 5- 6.379	0.999901	0.999723
P-82J-325	1981	1204.495	M	5623696.783	M	-9836.303	50-45- 6.302	114- 8-21.808	0- 6-28.606	0.999901	0.999713
P-82J-326	1981	1276.400	M	5626364.428	M	-9545.467	50-46-32.656	114- 8- 7.220	0- 6-17.438	0.999901	0.999701

P-82J-327	1981	1277.100	M	5627850.663	M	-8181.774	50-47-20.832	114- 6-57.734	0- 5-23.671	0.999901	0.999701
P-82J-328	1981	1602.600	M	5638736.069	M	-45648.947	50-53- 6.847	114-38-55.464	0-30-12.057	0.999926	0.999675
P-82J-329	1981	1488.400	M	5642978.697	M	-47606.011	50-55-23.576	114-40-37.573	0-31-32.301	0.999928	0.999695
P-82J-331	1982	2015.070	M	5644695.232	M	-82092.802	50-56- 5.171	115-10- 4.479	0-54-24.524	0.999983	0.999667
P-82J-332	1986	1300.960	M	5561509.555	M	-12954.882	50-11-33.331	114-10-53.155	0- 8-21.754	0.999902	0.999698
P-82J-333	1986	1328.868	M	5563728.832	M	-6557.753	50-12-45.543	114- 5-30.767	0- 4-14.170	0.999901	0.999692
P-82J-334	1986	1347.291	M	5566777.063	M	-4449.871	50-14-24.277	114- 3-44.578	0- 2-52.640	0.999900	0.999689
P-82J-335	1986	1516.250	M	5567615.807	M	-2571.284	50-14-51.465	114- 2- 9.791	0- 1-39.785	0.999900	0.999663
P-82J-336	1986	1239.950	M	5617679.517	M	-21272.084	50-41-50.455	114-18- 3.954	0-13-58.776	0.999906	0.999711
P-82J-337	1986	1240.970	M	5619729.573	M	-22872.116	50-42-56.585	114-19-25.942	0-15- 2.456	0.999906	0.999712
P-82J-338	1986	1212.376	M	5621558.128	M	-22896.069	50-43-55.762	114-19-27.572	0-15- 3.930	0.999906	0.999717
P-82J-339	1986	1210.971	M	5623156.662	M	-23784.401	50-44-47.368	114-20-13.242	0-15-39.480	0.999907	0.999717
P-82J-340	1986	1206.500	M	5624365.537	M	-21831.443	50-45-26.768	114-18-33.881	0-14-22.674	0.999906	0.999717
P-82J-341	1986	1177.870	M	5627545.046	M	-19585.058	50-47- 9.959	114-16-39.878	0-12-54.697	0.999905	0.999720
P-82J-342	1986	1188.240	M	5623957.696	M	-19595.841	50-45-13.856	114-16-39.741	0-12-54.235	0.999905	0.999719
P-82J-343	1986	1201.289	M	5619919.037	M	-18787.988	50-43- 3.244	114-15-57.785	0-12-21.359	0.999904	0.999716
P-82J-344	1986	1521.284	M	5651431.042	M	-53594.342	50-59-55.209	114-45-48.645	0-35-36.071	0.999935	0.999697
P-82J-346	1991	1224.546	M	5587426.972	M	-13331.707	50-25-32.167	114-11-15.446	0- 8-40.633	0.999902	0.999710
P-82J-347	1991	1278.200	M	5589905.899	M	-10352.414	50-26-52.617	114- 8-44.749	0- 6-44.606	0.999901	0.999701
P-82J-348	1991	1243.900	M	5591368.706	M	-8174.650	50-27-40.086	114- 6-54.477	0- 5-19.642	0.999901	0.999706
P-82J-349	1991	1161.434	M	5593936.404	M	-6265.300	50-29- 3.277	114- 5-17.824	0- 4- 5.185	0.999900	0.999719
P-82J-350	1991	1155.800	M	5594199.932	M	-3312.311	50-29-11.893	114- 2-48.037	0- 2- 9.637	0.999900	0.999719
P-82J-351	1991	1137.944	M	5592990.685	M	-58.927	50-28-32.789	114- 0- 2.994	0- 0- 2.309	0.999900	0.999722