

ANEXO 1 – Arquivo de observação do ponto A (RIOD)

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2.10          N: GPS NAV DATA          RINEX VERSION / TYPE
teqc 2006Dec12          20070618 11:33:31UTCPGM / RUN BY / DATE
MSXP|IAx86-PII|bcc32 5.0|MSWin95->XP|486/DX+          COMMENT
2          NAVIGATION DATA          COMMENT
CCRINEXN V1.6.E UX BKG, FRANKFURT 18-JUN-07 00:36          COMMENT
CONCATENATED NAVIGATIONFILES FOR IGS          COMMENT
5.5880D-09 1.4900D-08 -5.9600D-08 -1.1920D-07          ION ALPHA
8.3970D+04 9.8300D+04 -6.5540D+04 -5.2430D+05          ION BETA
4.656612873080D-09 2.753353101070D-14 503808 1431 DELTA-UTC: A0,A1,T,W
14          LEAP SECONDS
Orbitas Transmitidas adaptadas do arquivo BRDC de Orbitas          COMMENT
Transmitidas disponibilizado pelo IGS          COMMENT
END OF HEADER

1 07 6 14 0 0 0.0 1.339898444710D-04 2.160049916710D-12 0.000000000000D+00
3.400000000000D+01-1.158750000000D+02 3.955521906220D-09-8.093410706590D-01
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3.456000000000D+05-1.154839992520D-07 1.963979536360D+00 6.891787052160D-08
9.901955953350D-01 3.503437500000D+02-1.776480680610D+00-8.102837515710D-09
-1.235765760320D-10 0.000000000000D+00 1.431000000000D+03 0.000000000000D+00
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3.426000000000D+05 4.000000000000D+00

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ANEXO 2 – Arquivo de navegação do ponto A (RIOD)

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teqc 2006Dec12          20070618 11:33:31UTC / RUN BY / DATE
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2          NAVIGATION DATA          COMMENT
CCRINEXN V1.6.E UX BKG, FRANKFURT          18-JUN-07 00:36          COMMENT
CONCATENATED NAVIGATIONFILES FOR IGS          COMMENT
5.5880D-09 1.4900D-08 -5.9600D-08 -1.1920D-07          ION ALPHA
8.3970D+04 9.8300D+04 -6.5540D+04 -5.2430D+05          ION BETA
4.656612873080D-09 2.753353101070D-14 503808 1431 DELTA-UTC: A0,A1,T,W
14          LEAP SECONDS
Orbitas Transmitidas adaptadas do arquivo BRDC de Orbitas          COMMENT
Transmitidas disponibilizado pelo IGS          COMMENT
END OF HEADER
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3.400000000000D+01-1.158750000000D+02 3.955521906220D-09-8.093410706590D-01
-5.930662155150D-06 6.631966331040D-03 2.425163984300D-06 5.153387868880D+03
3.456000000000D+05-1.15483992520D-07 1.963979536360D+00 6.891787052160D-08
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3.426000000000D+05 4.000000000000D+00
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3.672000000000D+05

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ANEXO 3 – Arquivo de navegação do ponto B (IME)

2	OBSERVATION DATA					G (GPS)	RINEX VERSION / TYPE
ASHTORIN						14 - JUN - 07 17:01	PGM / RUN BY / DATE
????							COMMENT
							MARKER NAME
							MARKER NUMBER
							OBSERVER / AGENCY
	PROMARK2		2.40		UNKNOWN		REC # / TYPE / VERS
							ANT # / TYPE
4285792.5500	-4019918.1300	-2472247.3900					APPROX POSITION XYZ
0.0000	0.0000	0.0000					ANTENNA: DELTA H/E/N
1 0							WAVELENGTH FACT L1/2
3 L1 C1 D1							# / TYPES OF OBSERV
15.0000							INTERVAL
							LEAP SECONDS
2007 6 14 11 29	0.000000	0	7G26G17G29G04G08G28G02				TIME OF FIRST OBS
2007 6 14 14 58	0.000000						TIME OF LAST OBS
							END OF HEADER
07 6 14 11 29	0.0000000	0	7G26G17G29G04G08G28G02			0.000000000	
	0.00016	21147090.256	-588.877				
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	0.00016	21267823.863	-2044.190				
	0.00016	22633567.877	2193.181				
	0.00016	23585639.444	-2270.106				
	0.00016	23574636.292	-2015.697				
	0.00016	23562261.913	3126.039				
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	-7864439.490	6 21273662.524	-2035.851				
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	-7851793.491	6 23592123.612	-2258.494				
	-7858324.122	6 23580388.026	-1999.029				
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	-7833608.768	6 21279524.712	-2048.522				
	-8038163.634	6 22621062.677	2197.678				
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07 6 14 11 29	45.0000000	0	7G26G29G17G04G08G02G28			0.000000000	
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	-7783705.405	6 21312322.919	-2365.878				
	-8070917.054	6 22614825.903	2189.634				
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	-7748084.610	6 21319101.169	-2371.561				
	-7771573.055	6 21291330.148	-2068.977				
	-8103642.982	6 22608602.091	2185.822				
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	-7767674.738	6 23597640.968	-2007.302				
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	-7740394.518	6 21297269.337	-2078.040				
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-7518873.890	6	21339417.200	-2135.488	
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-7422233.996	6	21357808.956	-2158.539	
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07 6 14 11 33	0.0000000	0	7G26G29G17G04G28G02G08	0.000000000
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-7192850.419	6	21401463.949	-2211.105	
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-7025763.043	6	21433253.825	-2244.225	
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-6924187.870	6	21452586.959	-2267.411	
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-9867604.502	6	23205087.638	3123.208	
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-6685298.152	6	23803608.643	-1996.572	
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-6366844.507	6	21558646.116	-2373.371	
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-5784021.387	6	21669553.049	-2479.359	
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-5634547.320	6	21698004.723	-2503.789	
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-10045948.361	6	22238996.784	1916.633	
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-10160321.016	6	22217224.014	1897.540	
-5445671.126	6	21733943.203	-2532.187	
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-5331261.938	6	21755716.139	-2551.003	
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-10329617.692	6	22185013.065	1867.113	
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-5138900.410	6	21792317.303	-2574.883	
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-5100161.666	6	21799686.404	-2584.510	
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-10468675.372	6	22158557.041	1841.308	
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07 6 14 11 49	45.0000000	0	7G26G04G02G29G17G08G28	0.000000000
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-11870764.246	6	22823906.431	3079.184	
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-4709809.861	6	21897265.829	-2726.857	
-4833713.618	6	24166450.312	-2625.835	
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07 6 14 11 50	0.0000000	0	7G26G29G04G17G02G08G28	0.000000000
-6688560.167	6	21382651.133	-1357.313	
-4944355.370	6	21829332.365	-2606.997	
-10523721.316	6	22148078.350	1830.752	
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-11916944.500	6	22815125.012	3078.503	
-4794300.697	6	24173955.414	-2628.895	
-5374656.851	6	24053016.929	-1976.360	
07 6 14 11 50	15.0000000	0	7G26G17G04G29G02G08G28	0.000000000
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-4627896.934	6	21912853.939	-2734.030	
-10551124.210	6	22142864.926	1824.479	
-4905189.489	6	21836795.816	-2613.570	
-11963090.637	6	22806332.982	3075.850	
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-5344994.910	6	24058661.690	-1977.016	
07 6 14 11 50	30.0000000	0	7G26G17G04G02G29G08G28	0.000000000
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-4586850.872	6	21920663.105	-2737.923	
-10578442.120	6	22137663.333	1818.768	
-12009206.384	6	22797562.694	3073.770	
-4865935.054	6	21844261.710	-2619.489	
-4715269.649	6	24188982.997	-2638.313	
-5315332.350	6	24064305.054	-1977.110	
07 6 14 11 50	45.0000000	0	7G26G29G04G17G02G28G08	0.000000000
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-4826613.783	6	21851745.769	-2623.906	
-10605695.807	6	22132479.694	1814.533	
-4545768.234	6	21928482.078	-2740.303	
-12055312.682	6	22788789.456	3073.180	
-5285690.354	6	24069944.475	-1975.691	
-4675677.302	6	24196514.534	-2641.193	
07 6 14 11 51	0.0000000	0	7G26G04G17G02G29G08G28	0.000000000
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-4504633.237	6	21936310.997	-2743.580	
-12101393.268	6	22780017.423	3071.663	
-4787209.965	6	21859238.291	-2629.160	
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-10659952.613	6	22122153.565	1803.642	
-4747714.792	6	21866756.307	-2634.949	
-12147438.221	6	22771257.439	3069.561	
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-5226410.911	6	24081219.182	-1975.190	
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-4708151.321	6	21874290.829	-2639.435	
-10686968.697	6	22117014.267	1799.210	
-4422202.507	6	21951998.201	-2749.820	
-12193470.333	6	22762497.326	3068.759	
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-5196786.901	6	24086863.647	-1973.944	
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-4380907.310	6	21959856.434	-2753.675	
-12239465.785	6	22753740.683	3066.495	
-4668496.991	6	21881826.486	-2645.270	
-4516699.114	6	24226768.608	-2656.753	
-5167157.608	6	24092498.988	-1974.090	
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-4628758.444	6	21889393.814	-2650.868	
-4339557.536	6	21967724.195	-2757.291	
-12285430.364	6	22744995.952	3064.445	
-4476799.109	6	24234365.321	-2660.921	
-5137529.250	6	24098140.747	-1974.005	
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-4588940.491	6	21896971.873	-2656.282	
-4298158.186	6	21975601.502	-2760.729	
-12331368.391	6	22736251.097	3062.515	
-4436840.855	6	24241966.203	-2664.933	
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-4549040.994	6	21904564.974	-2661.765	
-10794168.026	6	22096611.048	1776.476	
-4256706.854	6	21983488.301	-2764.227	
-12377276.645	6	22727512.918	3060.452	
-5078285.882	6	24109412.757	-1973.704	
-4396821.713	6	24249586.386	-2669.065	
07 6 14 11 52	45.0000000	0	7G26G17G04G29G02G08G28	0.000000000
-6456821.883	6	21426754.207	-1448.247	
-4215231.866	6	21991384.557	-2765.932	
-10820787.063	6	22091549.645	1772.572	
-4509088.419	6	21912168.441	-2665.413	
-12423182.645	6	22718781.597	3060.168	
-4356769.736	6	24257204.449	-2671.354	
-5048696.070	6	24115044.009	-1971.766	
07 6 14 11 53	0.0000000	0	7G04G26G29G02G17G08G28	0.000000000
-10847302.291	6	22086500.718	1765.637	
-6435004.304	6	21430899.073	-1457.900	
-4469035.866	6	21919787.158	-2672.046	
-12469038.964	6	22710059.777	3056.855	
-4173686.342	6	21999290.202	-2770.608	
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-5019089.690	6	24120677.692	-1972.871	
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-4428900.009	6	21927428.001	-2677.455	
-4132086.849	6	22007205.200	-2774.052	
-10873729.574	6	22081467.495	1759.921	
-12514861.333	6	22701338.035	3054.736	
-4276442.984	6	24272491.115	-2680.756	
-4989482.798	6	24126313.416	-1972.781	
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-4090446.726	6	22015129.377	-2776.797	
-4388694.377	6	21935080.222	-2682.119	
-12560662.535	6	22692619.586	3053.269	
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-4959888.411	6	24131942.370	-1971.971	
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-10926352.226	6	22071460.537	1749.030	

-4048759.589	6	22023062.732	-2780.280	
-4348412.778	6	21942738.933	-2687.550	
-12606435.561	6	22683901.301	3051.001	
-4195895.482	6	24287829.599	-2688.283	
-4930299.753	6	24137575.878	-1971.971	
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-6346507.946	6	21447746.195	-1490.632	
-10952537.942	6	22066476.662	1743.444	
-4007023.733	6	22031005.231	-2783.458	
-12652177.818	6	22675207.394	3048.997	
-4308053.302	6	21950424.413	-2692.664	
-4155534.458	6	24295500.070	-2692.150	
-4900714.673	6	24143205.373	-1971.665	
07 6 14 11 54	15	0.0000000	7G04G26G17G29G02G08G28	0.000000000
-10978628.088	6	22061515.053	1737.088	
-6324068.073	6	21452017.028	-1499.521	
-3965228.453	6	22038956.856	-2787.416	
-4267605.500	6	21958115.510	-2698.522	
-12697877.977	6	22666506.751	3046.199	
-4115103.902	6	24303192.930	-2696.758	
-4871122.222	6	24148834.044	-1972.162	
07 6 14 11 54	30	0.0000000	7G26G29G04G17G02G08G28	0.000000000
-6301514.354	6	21456308.330	-1507.264	
-4227089.851	6	21965828.281	-2703.187	
-11004641.641	6	22056556.671	1731.792	
-3923393.476	6	22046917.484	-2790.202	
-12743555.325	6	22657814.414	3044.492	
-4074623.443	6	24310902.699	-2700.253	
-4841541.777	6	24154463.054	-1971.519	
07 6 14 11 54	45	0.0000000	7G26G04G17G29G02G28G08	0.000000000
-6278848.332	6	21460621.462	-1514.760	
-11030579.868	6	22051624.761	1726.773	
-3881520.859	6	22054887.013	-2792.706	
-4186507.737	6	21973548.956	-2707.624	
-12789210.860	6	22649126.597	3043.026	
-4811974.912	6	24160092.872	-1970.575	
-4034094.642	6	24318610.041	-2703.456	
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-11056420.114	6	22046705.030	1720.313	
-3839588.575	6	22062865.440	-2796.539	
-4145837.277	6	21981291.286	-2713.369	
-12834821.809	6	22640449.232	3040.156	
-4782399.122	6	24165722.085	-1971.100	
-3993495.339	6	24326331.466	-2708.047	
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-6233136.383	6	21469318.639	-1531.065	
-4105101.712	6	21989043.946	-2717.801	
-3797619.640	6	22070852.680	-2799.066	
-12880410.429	6	22631770.070	3038.552	
-4752837.013	6	24171347.806	-1970.294	
-3952848.266	6	24334068.019	-2711.316	
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-6210100.331	6	21473706.454	-1539.362	
-11107859.887	6	22036913.624	1709.219	
-3755600.983	6	22078848.714	-2802.375	
-4064287.891	6	21996806.587	-2722.982	
-12925962.980	6	22623104.030	3036.153	
-4723275.157	6	24176970.479	-1970.260	
-3912140.183	6	24341822.389	-2715.369	
07 6 14 11 55	45	0.0000000	7G04G17G26G29G02G28G08	0.000000000
-11133446.920	6	22032054.967	1703.206	
-3713534.172	6	22086853.456	-2805.692	
-6186941.696	6	21478103.203	-1547.617	
-4023397.898	6	22004588.439	-2728.172	
-12971480.623	6	22614447.187	3033.707	
-4693715.015	6	24182596.396	-1970.262	

-3871372.812	6	24349568.207	-2719.432	
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-11158952.186	6	22027196.903	1697.782	
-3982438.941	6	22012389.993	-2732.717	
-3671426.399	6	22094866.817	-2808.381	
-13016969.635	6	22605778.053	3031.804	
-4664163.412	6	24188219.732	-1969.663	
-3830553.090	6	24357333.866	-2722.898	
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-11184361.430	6	22022364.960	1691.337	
-3629263.879	6	22102888.694	-2812.066	
-3941397.348	6	22020189.853	-2738.273	
-13062415.611	6	22597135.985	3028.866	
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-3789666.785	6	24365130.027	-2727.395	
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-3587066.730	6	22110919.173	-2814.495	
-13107837.897	6	22588496.709	3027.152	
-6116751.759	6	21491464.385	-1571.341	
-3900293.186	6	22028020.356	-2742.546	
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-4605062.510	6	24199467.782	-1969.298	
07 6 14 11 56	45.0000000	0	7G04G26G17G29G02G08G28	0.000000000
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-3544813.254	6	22118958.133	-2818.298	
-3859105.021	6	22035852.253	-2748.193	
-13153214.177	6	22579863.733	3023.999	
-3707732.536	6	24380718.649	-2735.243	
-4575510.953	6	24205089.225	-1969.929	
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-11260082.888	6	22007950.358	1674.257	
-3502525.282	6	22127005.399	-2820.538	
-3817854.836	6	22043703.206	-2752.275	
-13198565.379	6	22571230.638	3022.389	
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-3666684.314	6	24388516.658	-2738.291	
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-6045490.867	6	21505026.042	-1594.842	
-13243888.058	6	22562594.699	3020.414	
-3776539.708	6	22051564.680	-2756.636	
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-3417903.728	6	22143110.603	-2821.045	
-13289248.027	6	22553974.969	3022.950	
-3735226.410	6	22059422.737	-2756.436	
-3584504.995	6	24404158.763	-2740.463	
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-13334494.964	6	22545366.584	3015.676	
-3375487.178	6	22151182.774	-2828.781	
-3693765.155	6	22067314.234	-2765.991	
-3543290.405	6	24412010.333	-2749.067	
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-3333022.877	6	22159263.060	-2831.834	

-5973248.672	6	0.000	-1618.512	
-3652229.038	6	22075222.884	-2770.857	
-13379700.761	6	22536763.206	3013.049	
-4427939.333	6	24233171.327	-1967.811	
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-3290516.908	6	22167351.476	-2834.550	
-13424870.960	6	22528161.494	3010.707	
-3610624.368	6	22083129.282	-2775.370	
-4398416.468	6	24238786.755	-1967.480	
-3460685.081	6	24427726.787	-2756.603	
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-5924438.739	6	21528062.829	-1634.376	
-3247962.311	6	22175447.937	-2837.780	
-13469997.886	6	22519571.474	3007.813	
-3568943.980	6	22091068.609	-2780.402	
-3419293.063	6	24435609.557	-2760.717	
-4368890.577	6	24244404.141	-1967.685	
07 6 14 11 58 45	0.0000000	0	7G04G17G26G29G02G28G08	0.000000000
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-3205370.677	6	22183552.407	-2840.180	
-5899860.718	6	21532739.867	-1641.749	
-3527199.920	6	22099014.321	-2784.552	
-13515092.455	6	22510999.506	3005.712	
-4339372.908	6	24250024.073	-1967.082	
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-11458216.560	6	0.000	1627.612	
-3162744.742	6	22191664.695	-2842.374	
-13560156.536	6	22502421.080	3003.719	
-3485394.722	6	22106967.258	-2788.565	
-4309865.599	6	24255645.547	-1966.327	
-3336360.357	6	24451388.741	-2767.135	
07 6 14 11 59 15	0.0000000	0	7G04G26G02G17G29G28G08	0.000000000
-11482564.558	6	21965610.138	1620.606	
-5850360.681	6	21542162.171	-1657.619	
-13605172.043	6	22493854.801	3000.178	
-3120067.019	6	22199784.817	-2846.124	
-3443511.066	6	22114942.653	-2794.055	
-4280350.951	6	24261255.859	-1967.095	
-3294804.418	6	24459296.185	-2771.804	
07 6 14 11 59 30	0.0000000	0	7G04G26G02G17G29G08G28	0.000000000
-11506832.451	6	21960996.780	1615.550	
-5825442.497	6	21546900.806	-1664.330	
-13650159.402	6	22485295.349	2998.561	
-3077358.716	6	22207912.740	-2847.884	
-3401570.558	6	22122915.045	-2797.576	
-3253203.885	6	24467203.785	-2774.491	
-4250849.671	6	24266873.017	-1965.950	
07 6 14 11 59 45	0.0000000	0	7G04G26G02G17G29G08G28	0.000000000
-11531016.344	6	21956394.885	1609.882	
-5800416.017	6	21551664.009	-1671.621	
-13695114.674	6	22476739.909	2996.358	
-3034616.465	6	22216048.410	-2850.195	
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7763859.908	6	24132869.300					-2720.942	
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6346542.634	6	21254382.823	-2232.190	
-6108868.997	6	22337375.218	2913.470	
-2290170.283	6	21330428.730	2051.414	
-1400324.154	6	23247247.210	1894.810	
07 6 14 14 49	0.0000000	0	7G12G09G02G24G05G10G04	0.000000000
-4399386.798	6	20676955.751	1191.284	
-6732760.304	6	21107750.926	-1909.240	
6379865.110	6	21260724.739	-2239.500	
-6152742.541	6	22329029.124	2907.621	
-2321126.146	6	21324542.361	2047.334	
-1428932.077	6	23241807.351	1890.863	
-1612529.39715		0.000	-3091.509	
07 6 14 14 49	15.0000000	0	6G09G12G02G24G05G10	0.000000000
-6704278.839	6	21113175.095	-1917.923	
-4417433.798	6	20673518.451	1185.331	
6413292.580	6	21267085.510	-2247.128	
-6196532.820	6	22320697.142	2901.432	
-2352025.270	6	21318659.894	2042.904	
-1457485.383	6	23236368.165	1886.590	

07	6	14	14	49	30.0000000	0	6G09G02G12G05G24G10	0.000000000
					-6675638.843	6	21118621.141	-1927.824
					6446862.822	6	21273473.882	-2255.972
					-4435362.687	6	20670105.902	1178.110
					-2382829.428	6	21312797.751	2037.236
					-6240201.648	6	22312379.272	2893.986
					-1485945.707	6	23230958.639	1881.041
07	6	14	14	49	45.0000000	0	6G09G12G02G24G05G10	0.000000000
					-6646967.813	6	21124077.859	-1931.150
					-4453300.458	6	20666694.351	1177.416
					6480448.249	6	21279866.644	-2258.245
					-6283876.015	6	22304075.634	2893.081
					-2413665.586	6	21306931.414	2038.073
					-1514439.847	6	23225531.551	1882.006
07	6	14	14	50	0.0000000	0	6G09G12G02G05G24G10	0.000000000
					-6618108.141	6	21129569.489	-1943.510
					-4471088.888	6	20663308.968	1167.661
					6514206.388	6	21286286.117	-2269.525
					-2444375.614	6	21301085.697	2029.880
					-6327397.897	6	22295786.248	2883.130
					-1542809.692	6	23220131.854	1873.931
07	6	14	14	50	15.0000000	0	6G09G12G02G24G05G10	0.000000000
					-6589224.565	6	21135066.192	-1944.793
					-4488892.253	6	20659921.867	1168.938
					6547972.302	6	21292714.949	-2269.753
					-6370931.531	6	22287511.129	2884.184
					-2475123.845	6	21295233.675	2032.708
					-1571219.467	6	23214722.398	1876.864
07	6	14	14	50	30.0000000	0	6G09G12G02G05G24G10	0.000000000
					-6560169.231	6	21140601.248	-1953.903
					-4506562.018	6	20656554.492	1162.371
					6581894.101	6	21299171.592	-2277.808
					-2505761.520	6	21289405.558	2027.662
					-6414328.298	6	22279250.386	2877.392
					-1599520.343	6	23209339.832	1871.923
07	6	14	14	50	45.0000000	0	6G09G12G02G24G05G10	0.000000000
					-6530975.950	6	21146151.547	-1964.811
					-4524131.321	6	20653215.327	1153.924
					6615938.005	6	21305648.199	-2287.661
					-6457621.434	6	22271004.014	2868.759
					-2536321.822	6	21283590.712	2020.775
					-1627745.568	6	23203977.656	1865.151
07	6	14	14	51	0.0000000	0	6G09G12G02G05G24G10	0.000000000
					-6501837.213	6	21151700.330	-1962.448
					-4541792.034	6	20649852.191	1158.733
					6649911.328	6	21312112.664	-2284.222
					-2566996.953	6	21277753.234	2027.120
					-6501002.982	6	22262752.169	2873.342
					-1656087.076	6	23198582.784	1871.619
07	6	14	14	51	15.0000000	0	6G09G02G12G05G24G10	0.000000000
					-6472463.859	6	21157288.188	-1977.247
					6684103.402	6	21318621.907	-2297.952
					-4559254.592	6	20646529.581	1146.361
					-2597496.885	6	21271949.870	2016.273
					-6544183.093	6	22254534.803	2860.750
					-1684254.800	6	23193215.528	1860.850
07	6	14	14	51	30.0000000	0	6G09G12G02G05G24G10	0.000000000
					-6442991.126	6	21162890.196	-1983.361
					-4576654.026	6	20643219.231	1142.643
					6718378.718	6	21325143.200	-2302.998
					-2627956.464	6	21266153.284	2014.096
					-6587296.594	6	22246331.962	2856.801
					-1712383.580	6	23187871.716	1858.730
07	6	14	14	51	45.0000000	0	6G09G12G05G02G24G10	0.000000000
					-6413411.590	6	21168525.323	-1990.376
					-4593982.205	6	20639919.432	1137.984
					-2658367.867	6	21260365.401	2010.963
					6752744.655	6	21331679.092	-2308.922

-6630335.603	6	22238143.721	2851.922	
-1740465.440	6	23182528.562	1855.692	
07 6 14 14 52	0.0000000	0	6G12G09G02G24G05G10	0.000000000
-4611254.097	6	20636639.713	1134.350	
-6383740.753	6	21174174.515	-1996.305	
6787185.856	6	21338235.361	-2313.782	
-6673315.007	6	22229970.097	2848.089	
-2688745.835	6	21254584.317	2008.865	
-1768515.114	6	23177189.014	1853.676	
07 6 14 14 52	15.0000000	0	6G09G12G24G02G05G10	0.000000000
-6353938.875	6	21179836.962	-2004.166	
-4628429.285	6	20633368.347	1128.767	
-6716194.459	6	22221811.141	2842.277	
6821741.936	6	21344810.802	-2320.576	
-2719049.941	6	21248819.105	2004.792	
-1796492.040	6	23171865.584	1849.677	
07 6 14 14 52	30.0000000	0	6G09G12G02G05G24G10	0.000000000
-6323973.256	6	21185541.790	-2014.808	
-4645474.350	6	20630125.123	1120.356	
6856445.670	6	21351416.705	-2330.141	
-2749246.867	6	21243073.520	1997.913	
-6758940.606	6	22213666.924	2833.655	
-1824362.853	6	23166562.357	1842.864	
07 6 14 14 52	45.0000000	0	6G12G09G02G05G24G10	0.000000000
-4662499.719	6	20626883.796	1119.118	
-6293954.899	6	21191254.500	-2018.203	
6891186.106	6	21358025.918	-2332.484	
-2779447.028	6	21237324.649	1998.214	
-6801663.881	6	22205537.465	2832.214	
-1852238.003	6	23161251.934	1843.248	
07 6 14 14 53	0.0000000	0	6G09G12G02G24G05G10	0.000000000
-6263874.395	6	21196982.107	-2022.402	
-4679495.484	6	20623650.926	1117.097	
6925972.483	6	21364644.549	-2335.577	
-6844354.494	6	22197422.815	2829.984	
-2809640.563	6	21231578.809	1997.695	
-1880107.496	6	23155948.871	1842.809	
07 6 14 14 53	15.0000000	0	6G12G09G02G24G05G10	0.000000000
-4696353.448	6	20620445.117	1107.980	
-6233624.121	6	21202738.187	-2033.613	
6960912.478	6	21371291.759	-2345.721	
-6886904.231	6	22189323.045	2820.671	
-2839719.129	6	21225852.875	1990.133	
-1907862.915	6	23150664.247	1835.280	
07 6 14 14 53	30.0000000	0	7G12G05G09G02G24G10G04	0.000000000
-4713124.822	6	20617252.129	1102.811	
-2869733.907	6	21220145.537	1986.463	
-6203255.768	6	21208512.393	-2040.869	
6995954.256	6	21377962.573	-2351.881	
-6929364.293	6	22181238.172	2815.290	
-1935555.366	6	23145395.009	1831.682	
0.00015	0.000		-3135.395	
07 6 14 14 53	45.0000000	0	6G09G12G02G05G24G10	0.000000000
-6172804.758	6	21214312.645	-2045.571	
-4729844.655	6	20614068.595	1100.163	
7031062.251	6	21384643.958	-2355.498	
-2899719.961	6	21214435.088	1985.330	
-6971769.645	6	22173168.246	2812.426	
-1963219.875	6	23140139.622	1830.598	
07 6 14 14 54	0.0000000	0	6G02G12G09G24G05G10	0.000000000
7066227.486	6	21391334.377	-2358.345	
-4746521.301	6	20610893.205	1098.225	
-6142280.321	6	21220116.941	-2049.497	
-7014128.719	6	22165113.357	2810.279	
-2929685.607	6	21208732.642	1984.921	
-1990864.654	6	23134870.828	1830.220	
07 6 14 14 54	15.0000000	0	6G12G09G02G05G24G10	0.000000000
-4763065.326	6	20607749.920	1090.060	

-6111593.622	6	21225957.634	-2059.639	
7101538.737	6	21398056.080	-2367.397	
-2959541.305	6	21203052.878	1978.259	
-7056352.148	6	22157073.469	2801.911	
-2018400.174	6	23129630.789	1823.604	
07 6 14 14 54 30	0.0000000	0	6G12G09G02G24G05G10	0.000000000
-4779566.425	6	20604609.668	1088.090	
-6080834.810	6	21231813.852	-2063.517	
7136905.951	6	21404786.522	-2370.198	
-7098529.651	6	22149048.704	2799.766	
-2989376.870	6	21197375.412	1977.820	
-2045915.995	6	23124396.678	1823.189	
07 6 14 14 54 45	0.0000000	0	6G12G09G05G02G24G10	0.000000000
-4795956.127	6	20601491.801	1080.781	
-6049935.926	6	21237689.750	-2072.730	
-3019123.646	6	21191717.801	1971.993	
7172396.986	6	21411536.313	-2378.333	
-7140592.597	6	22141039.083	2792.236	
-2073343.585	6	23119179.316	1817.401	
07 6 14 14 55	0.0000000	0	6G12G09G02G05G24G10	0.000000000
-4812302.658	6	20598375.064	1078.050	
-6018965.633	6	21243583.479	-2077.336	
7207943.101	6	21418303.498	-2381.846	
-3048849.734	6	21186059.174	1970.754	
-7182609.164	6	22133044.639	2789.275	
-2100750.942	6	23113969.070	1816.189	
07 6 14 14 55 15	0.0000000	0	6G12G09G02G24G05G10	0.000000000
-4828611.569	6	20595272.686	1075.713	
-5987930.179	6	21249487.760	-2081.474	
7243538.005	6	21425076.595	-2384.898	
-7224585.106	6	22125065.425	2786.743	
-3078560.824	6	21180403.509	1969.941	
-2128143.668	6	23108747.164	1815.404	
07 6 14 14 55 30	0.0000000	0	6G09G12G02G05G24G10	0.000000000
-5956749.212	6	21255426.450	-2090.670	
-4844801.738	6	20592195.066	1068.288	
7279262.151	6	21431874.084	-2393.005	
-3108175.857	6	21174770.335	1964.043	
-7266439.435	6	22117101.511	2779.144	
-2155440.592	6	23103560.103	1809.521	
07 6 14 14 55 45	0.0000000	0	7G12G09G02G05G24G10G30	0.000000000
-4860889.422	6	20589131.457	1062.187	
-5925439.471	6	21261379.359	-2098.497	
7315098.728	6	21438696.350	-2399.752	
-3137710.995	6	21169147.820	1959.437	
-7308188.406	6	22109152.896	2772.842	
-2182657.939	6	23098373.458	1804.933	
5626513.436	6	22281068.573	2506.503	
07 6 14 14 56	0.0000000	0	7G09G12G05G02G24G10G30	0.000000000
-5894056.921	6	21267355.351	-2102.560	
-4876929.971	6	20586079.799	1059.812	
-3167221.566	6	21163536.731	1958.554	
7350991.766	6	21445524.337	-2402.727	
-7349887.282	6	22101219.652	2770.259	
-2209850.959	6	23093200.875	1804.059	
5588778.867	6	22273891.165	2508.031	
07 6 14 14 56 15	0.0000000	0	7G12G09G02G05G24G10G30	0.000000000
-4892876.488	6	20583045.659	1054.333	
-5862555.144	6	21273352.194	-2109.717	
7386987.703	6	21452369.825	-2408.776	
-3196660.629	6	21157932.638	1954.589	
-7391489.162	6	22093301.830	2764.599	
-2236972.617	6	23088045.270	1800.081	
5551080.074	6	22266713.066	2506.421	
07 6 14 14 56 30	0.0000000	0	7G02G12G05G24G09G10G30	0.000000000
7423074.740	6	21459244.941	-2414.592	
-4908740.196	6	20580024.884	1049.052	
-3226039.285	6	21152342.694	1950.799	

-7433005.307	6	22085399.466	2759.108	
-5830945.876	6	21279361.388	-2116.621	
-2264033.898	6	23082887.097	1796.305	
5513405.949	6	22259540.776	2505.024	
07 6 14 14 56	45.0000000	0	7G09G12G02G05G24G10G30	0.000000000
-5799249.822	6	21285401.816	-2122.681	
-4924541.001	6	20577022.010	1044.565	
7459232.298	6	21466120.421	-2419.561	
-3255377.424	6	21146756.377	1947.805	
-7474455.526	6	22077512.612	2754.452	
-2291054.673	6	23077743.178	1793.317	
5475736.587	6	22252373.983	2504.406	
07 6 14 14 57	0.0000000	0	7G12G09G02G05G24G10G30	0.000000000
-4940263.414	6	20574029.886	1041.522	
-5767451.878	6	21291445.890	-2127.271	
7495475.364	6	21473017.993	-2423.057	
-3284659.539	6	21141186.410	1946.252	
-7515824.453	6	22069641.304	2751.196	
-2318019.390	6	23072615.785	1791.758	
5438087.322	6	22245213.406	2505.267	
07 6 14 14 57	15.0000000	0	7G12G09G05G02G24G10G30	0.000000000
-4955888.969	6	20571057.580	1041.396	
-5735534.148	6	21297519.529	-2128.905	
-3313867.164	6	21135631.052	1947.619	
7531821.706	6	21479934.840	-2423.593	
-7557093.645	6	22061785.595	2750.872	
-2344909.506	6	23067499.986	1793.108	
5400476.633	6	22238054.084	2509.019	
07 6 14 14 57	30.0000000	0	7G12G02G09G05G24G10G30	0.000000000
-4971464.902	6	20568093.461	1046.155	
7568223.659	6	21486862.523	-2419.209	
-5703544.290	6	21303605.255	-2125.619	
-3343047.458	6	21130074.830	1953.860	
-7598310.302	6	22053945.524	2755.456	
-2371772.010	6	23062390.885	1799.332	
5362857.491	6	22230895.767	2517.655	
07 6 14 14 57	45.0000000	0	7G12G02G09G05G24G10G30	0.000000000
-4986918.832	6	20565148.718	1045.391	
7604752.939	6	21493813.645	-2420.317	
-5671410.753	6	21309712.250	-2127.806	
-3372128.073	6	21124541.323	1954.583	
-7639402.188	6	22046121.164	2754.497	
-2398534.614	6	23057299.026	1800.031	
5325302.024	6	22223754.214	2520.775	
07 6 14 14 58	0.0000000	0	7G09G12G05G24G02G10G30	0.000000000
-5639224.810	6	21315855.854	-2124.715	
-5002341.528	6	20562214.172	1049.892	
-3401199.776	6	21119015.037	1960.564	
-7680460.086	6	22038312.519	2758.804	
7641318.211	6	21500771.297	-2416.115	
-2425287.969	6	23052196.418	1806.016	
5287719.529	6	22216599.656	2529.151	

ANEXO 4 – Arquivo de navegação do ponto B (IME)

2	NAVIGATION DATA			RINEX VERSION / TYPE	
ASHTORIN				14 - JUN - 07 17:01	PGM / RUN BY / DATE
				COMMENT	
				END OF HEADER	
17 07	6 14 11 59 44.0	.646989792585D-04	-.136424205266D-11	.000000000000D+00	
	.218000000000D+03	-.681250000000D+01	.491234747613D-08	.116625610236D+01	
	-.538304448128D-06	.278430012986D-02	.620447099209D-05	.515361808968D+04	
	.388784000000D+06	-.186264514923D-08	-.122059286774D+01	.391155481339D-07	
	.959263313145D+00	.259718750000D+03	-.294724113114D+01	-.797640367780D-08	
	-.382873091058D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00	
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.218000000000D+03	
	.386940000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00	
26 07	6 14 11 59 44.0	-.249819830060D-03	-.214868123294D-10	.000000000000D+00	
	.188000000000D+03	-.950312500000D+02	.408838458334D-08	-.809310798495D+00	
	-.478513538837D-05	.183364895638D-01	.521540641785D-06	.515365063858D+04	
	.388784000000D+06	.147148966789D-06	.195038411785D+01	.415369868279D-06	
	.992380893585D+00	.382593750000D+03	.870470394357D+00	-.832748973052D-08	
	-.406802659249D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00	
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.188000000000D+03	
	.386955000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00	
28 07	6 14 11 59 44.0	-.963453203440D-06	-.795807864051D-12	.000000000000D+00	
	.233000000000D+03	.425000000000D+01	.460983487527D-08	.156839158059D+01	
	.203028321266D-06	.126700216206D-01	.773556530476D-05	.515368876457D+04	
	.388784000000D+06	-.277534127235D-06	-.225148694937D+01	-.298023223877D-07	
	.961635232927D+00	.231812500000D+03	-.217087264087D+01	-.794247369305D-08	
	.639669501945D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00	
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.233000000000D+03	
	.386955000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00	
29 07	6 14 12 0 0.0	.373646616936D-05	.341060513165D-12	.000000000000D+00	
	.109000000000D+03	-.923437500000D+02	.408195574413D-08	.956963608850D+00	
	-.514648854733D-05	.101210376015D-01	-.426545739174D-06	.515365345192D+04	
	.388800000000D+06	.186264514923D-06	.191457570880D+01	-.484287738800D-07	
	.988787595201D+00	.398593750000D+03	-.684604237109D+00	-.824677208259D-08	
	-.403231081907D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00	
	.200000000000D+01	.000000000000D+00	.000000000000D+00	.621000000000D+03	
	.386955000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00	
2 07	6 14 12 0 0.0	.114144291729D-03	.284217094304D-11	.000000000000D+00	
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	.395115000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
2 07	6 14 14 0 0.0	.114164780825D-03	.284217094304D-11	.000000000000D+00
	.165000000000D+03	.914062500000D+02	.455447542647D-08	.134415769324D+01
	.469759106636D-05	.878566247411D-02	.110194087029D-04	.515360244370D+04
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	.946597293805D+00	.159125000000D+03	.232981122638D+01	-.774103673097D-08
	-.408945605655D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.165000000000D+03
	.395235000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
4 07	6 14 14 0 0.0	.969273969531D-05	-.795807864051D-12	.000000000000D+00
	.110000000000D+03	.983437500000D+02	.453697469749D-08	-.236128170589D+01
	.481121242046D-05	.765628158115D-02	.114925205708D-04	.515357654762D+04
	.396000000000D+06	-.447034835815D-07	-.166571081166D+00	-.217929482460D-06
	.946017134142D+00	.153250000000D+03	.265358804025D+00	-.776139472182D-08
	-.315727437029D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.200000000000D+01	.000000000000D+00	.000000000000D+00	.366000000000D+03
	.395235000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
24 07	6 14 14 0 0.0	.743474811316D-05	.284217094304D-11	.000000000000D+00
	.670000000000D+02	.107437500000D+03	.425482008748D-08	-.302985239742D+01
	.554881989956D-05	.868262536824D-02	.118575990200D-04	.515367745018D+04
	.396000000000D+06	-.670552253723D-07	-.128688637564D+00	.145286321640D-06
	.956233080226D+00	.144031250000D+03	-.808252378727D+00	-.755281460504D-08
	-.340371320689D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.670000000000D+02
	.395295000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
12 07	6 14 14 0 0.0	-.467966310680D-04	-.909494701773D-12	.000000000000D+00
	.185000000000D+03	-.750000000000D+00	.448590114150D-08	-.245680695027D+00
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	.630383400856D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.185000000000D+03
	.395730000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
6 07	6 14 14 0 0.0	.213858671486D-03	.989075488178D-11	.000000000000D+00
	.234000000000D+03	-.925000000000D+01	.547344227655D-08	-.133528202589D+01
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	.932964421667D+00	.257750000000D+03	-.171834020681D+01	-.837034865862D-08
	-.232509684962D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.234000000000D+03
	.395820000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00

2 07	6 14 16 0 0.0	.114185269922D-03	.284217094304D-11	.000000000000D+00
	.166000000000D+03	.904375000000D+02	.447840082908D-08	.239440991736D+01
	.450387597084D-05	.878586131148D-02	.107455998659D-04	.515360190392D+04
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	.946594275805D+00	.161718750000D+03	.232978327586D+01	-.768174854709D-08
	-.437161066656D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.166000000000D+03
	.396030000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
4 07	6 14 16 0 0.0	.968668609858D-05	-.795807864051D-12	.000000000000D+00
	.105000000000D+03	.878125000000D+02	.451054502516D-08	-.131123846548D+01
	.433064997196D-05	.765742314979D-02	.104419887066D-04	.515357321167D+04
	.403200000000D+06	.949949026108D-07	-.166627494213D+00	-.139698386192D-06
	.946015239663D+00	.165656250000D+03	.265558081263D+00	-.780139638805D-08
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	.396030000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
6 07	6 14 16 0 0.0	.213929917663D-03	.989075488178D-11	.000000000000D+00
	.235000000000D+03	-.906250000000D+01	.541843998549D-08	-.285144178565D+00
	-.394880771637D-06	.587570422795D-02	.564195215702D-05	.515375275040D+04
	.403200000000D+06	-.968575477600D-07	-.126457541494D+01	.134110450745D-06
	.932962718831D+00	.257468750000D+03	-.171833885800D+01	-.835106214097D-08
	-.273939982128D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.235000000000D+03
	.396030000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
9 07	6 14 16 0 0.0	.745020806789D-04	.147792889038D-11	.000000000000D+00
	.121000000000D+03	-.135312500000D+03	.420267505829D-08	-.567706141411D+00
	-.699050724506D-05	.191329685040D-01	.103432685137D-04	.515370268631D+04
	.403200000000D+06	-.197440385818D-06	.292352851206D+01	.167638063431D-06
	.966616502634D+00	.182750000000D+03	.132984401414D+01	-.811998108695D-08
	.467876631797D-10	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.121000000000D+03
	.396030000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
12 07	6 14 16 0 0.0	-.468031503260D-04	-.909494701773D-12	.000000000000D+00
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	-.838190317154D-07	.355590041727D-02	.818073749542D-05	.515360319710D+04
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	.961639947912D+00	.224906250000D+03	-.119555805305D+01	-.785889878325D-08
	.523593238331D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.436000000000D+03
	.396030000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
24 07	6 14 16 0 0.0	.745523720980D-05	.284217094304D-11	.000000000000D+00
	.680000000000D+02	.109468750000D+03	.415695886831D-08	-.197948828348D+01
	.571832060814D-05	.868127378635D-02	.113844871521D-04	.515368127251D+04
	.403200000000D+06	-.206753611565D-06	-.128743249759D+00	.838190317154D-07
	.956230239239D+00	.160875000000D+03	-.808440641655D+00	-.765067582421D-08
	-.325013538118D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.680000000000D+02
	.396030000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
10 07	6 14 16 0 0.0	.103329773992D-03	.568434188608D-12	.000000000000D+00
	.100000000000D+02	.145781250000D+03	.440804075545D-08	.305291293979D+01
	.750087201595D-05	.751535827294D-02	.250898301601D-05	.515364655495D+04
	.403200000000D+06	-.204890966415D-07	.891068000033D+00	-.113621354103D-06
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	.336085406079D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.200000000000D+01	.000000000000D+00	.000000000000D+00	.522000000000D+03
	.396090000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
5 07	6 14 16 0 0.0	.512138940394D-04	.520685716765D-10	.000000000000D+00
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	.403200000000D+06	.244006514549D-06	-.236165985266D+01	.391155481339D-07
	.939980509481D+00	.205218750000D+03	.115641811286D+01	-.790890086604D-08
	.576809697128D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.478000000000D+03
	.396885000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
2 07	6 14 16 0 0.0	.114185269922D-03	.284217094304D-11	.000000000000D+00
	.166000000000D+03	.904375000000D+02	.447840082908D-08	.239440991736D+01
	.450387597084D-05	.878586131148D-02	.107455998659D-04	.515360190392D+04
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	-.437161066656D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
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	.396945000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
4 07	6 14 16 0 0.0	.968668609858D-05	-.795807864051D-12	.000000000000D+00
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	-.247153130265D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.200000000000D+01	.000000000000D+00	.000000000000D+00	.617000000000D+03
	.396945000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
6 07	6 14 16 0 0.0	.213929917663D-03	.989075488178D-11	.000000000000D+00
	.235000000000D+03	-.906250000000D+01	.541843998549D-08	-.285144178565D+00
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	.403200000000D+06	-.968575477600D-07	-.126457541494D+01	.134110450745D-06
	.932962718831D+00	.257468750000D+03	-.171833885800D+01	-.835106214097D-08
	-.273939982128D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.235000000000D+03
	.396945000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
9 07	6 14 16 0 0.0	.745020806789D-04	.147792889038D-11	.000000000000D+00
	.121000000000D+03	-.135312500000D+03	.420267505829D-08	-.567706141411D+00
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	.966616502634D+00	.182750000000D+03	.132984401414D+01	-.811998108695D-08
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	.396945000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
12 07	6 14 16 0 0.0	-.468031503260D-04	-.909494701773D-12	.000000000000D+00
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	.523593238331D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.436000000000D+03
	.396945000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
24 07	6 14 16 0 0.0	.745523720980D-05	.284217094304D-11	.000000000000D+00
	.680000000000D+02	.109468750000D+03	.415695886831D-08	-.197948828348D+01
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	.100000000000D+01	.000000000000D+00	.000000000000D+00	.680000000000D+02
	.396945000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
10 07	6 14 16 0 0.0	.103329773992D-03	.568434188608D-12	.000000000000D+00
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	.200000000000D+01	.000000000000D+00	.000000000000D+00	.522000000000D+03
	.397005000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
7 07	6 14 16 0 0.0	.255709048361D-03	-.187583282241D-10	.000000000000D+00
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	.397620000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
5 07	6 14 16 0 0.0	.512138940394D-04	.520685716765D-10	.000000000000D+00
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	.576809697128D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.478000000000D+03
	.397800000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00

2 07	6 14 16 0 0.0	.114185269922D-03	.284217094304D-11	.000000000000D+00
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	.100000000000D+01	.000000000000D+00	.000000000000D+00	.166000000000D+03
	.397860000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
4 07	6 14 16 0 0.0	.968668609858D-05	-.795807864051D-12	.000000000000D+00
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	-.247153130265D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
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	.397860000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
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	-.273939982128D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.235000000000D+03
	.397860000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
9 07	6 14 16 0 0.0	.745020806789D-04	.147792889038D-11	.000000000000D+00
	.121000000000D+03	-.135312500000D+03	.420267505829D-08	-.567706141411D+00
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	.397860000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
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	.100000000000D+01	.000000000000D+00	.000000000000D+00	.436000000000D+03
	.397860000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
24 07	6 14 16 0 0.0	.745523720980D-05	.284217094304D-11	.000000000000D+00
	.680000000000D+02	.109468750000D+03	.415695886831D-08	-.197948828348D+01
	.571832060814D-05	.868127378635D-02	.113844871521D-04	.515368127251D+04
	.403200000000D+06	-.206753611565D-06	-.128743249759D+00	.838190317154D-07
	.956230239239D+00	.160875000000D+03	-.808440641655D+00	-.765067582421D-08
	-.325013538118D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.680000000000D+02
	.397860000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
10 07	6 14 16 0 0.0	.103329773992D-03	.568434188608D-12	.000000000000D+00
	.100000000000D+02	.145781250000D+03	.440804075545D-08	.305291293979D+01
	.750087201595D-05	.751535827294D-02	.250898301601D-05	.515364655495D+04
	.403200000000D+06	-.204890966415D-07	.891068000033D+00	-.113621354103D-06
	.968880902327D+00	.339031250000D+03	.501554409286D+00	-.805176395972D-08
	.336085406079D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.200000000000D+01	.000000000000D+00	.000000000000D+00	.522000000000D+03
	.397920000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
7 07	6 14 16 0 0.0	.255709048361D-03	-.187583282241D-10	.000000000000D+00
	.780000000000D+02	-.796875000000D+01	.542594029791D-08	-.464929405216D+00
	-.311061739922D-06	.106352899456D-01	.566244125366D-05	.515364437866D+04
	.403200000000D+06	-.108033418655D-06	-.129020442745D+01	.180676579475D-06
	.934534780839D+00	.259375000000D+03	-.169026262492D+01	-.844785188694D-08
	-.204294223960D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.780000000000D+02
	.398535000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
5 07	6 14 16 0 0.0	.512138940394D-04	.520685716765D-10	.000000000000D+00
	.222000000000D+03	.687500000000D+00	.494699177635D-08	-.172280193432D+01
	.372529029846D-07	.793607917149D-02	.847503542900D-05	.515376396942D+04
	.403200000000D+06	.244006514549D-06	-.236165985266D+01	.391155481339D-07

	.939980509481D+00	.205218750000D+03	.115641811286D+01	-.790890086604D-08
	.576809697128D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.478000000000D+03
	.398715000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
2 07	6 14 16 0 0.0	.114185269922D-03	.284217094304D-11	.000000000000D+00
	.166000000000D+03	.904375000000D+02	.447840082908D-08	.239440991736D+01
	.450387597084D-05	.878586131148D-02	.107455998659D-04	.515360190392D+04
	.403200000000D+06	.124797224998D-06	-.185889008029D+00	.670552253723D-07
	.946594275805D+00	.161718750000D+03	.232978327586D+01	-.768174854709D-08
	-.437161066656D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.166000000000D+03
	.398775000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
6 07	6 14 16 0 0.0	.213929917663D-03	.989075488178D-11	.000000000000D+00
	.235000000000D+03	-.906250000000D+01	.541843998549D-08	-.285144178565D+00
	-.394880771637D-06	.587570422795D-02	.564195215702D-05	.515375275040D+04
	.403200000000D+06	-.968575477600D-07	-.126457541494D+01	.134110450745D-06
	.932962718831D+00	.257468750000D+03	-.171833885800D+01	-.835106214097D-08
	-.273939982128D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.235000000000D+03
	.398775000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
9 07	6 14 16 0 0.0	.745020806789D-04	.147792889038D-11	.000000000000D+00
	.121000000000D+03	-.135312500000D+03	.420267505829D-08	-.567706141411D+00
	-.699050724506D-05	.191329685040D-01	.103432685137D-04	.515370268631D+04
	.403200000000D+06	-.197440385818D-06	.292352851206D+01	.167638063431D-06
	.966616502634D+00	.182750000000D+03	.132984401414D+01	-.811998108695D-08
	.467876631797D-10	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.121000000000D+03
	.398775000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
12 07	6 14 16 0 0.0	-.468031503260D-04	-.909494701773D-12	.000000000000D+00
	.180000000000D+03	.140625000000D+01	.460304887832D-08	.804589201135D+00
	-.838190317154D-07	.355590041727D-02	.818073749542D-05	.515360319710D+04
	.403200000000D+06	.353902578354D-07	-.227640135565D+01	-.316649675369D-07
	.961639947912D+00	.224906250000D+03	-.119555805305D+01	-.785889878325D-08
	.523593238331D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.436000000000D+03
	.398775000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
24 07	6 14 16 0 0.0	.745523720980D-05	.284217094304D-11	.000000000000D+00
	.680000000000D+03	.109468750000D+03	.415695886831D-08	-.197948828348D+01
	.571832060814D-05	.868127378635D-02	.113844871521D-04	.515368127251D+04
	.403200000000D+06	-.206753611565D-06	-.128743249759D+00	.838190317154D-07
	.956230239239D+00	.160875000000D+03	-.808440641655D+00	-.765067582421D-08
	-.325013538118D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.680000000000D+02
	.398775000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
10 07	6 14 16 0 0.0	.103329773992D-03	.568434188608D-12	.000000000000D+00
	.100000000000D+02	.145781250000D+03	.440804075545D-08	.305291293979D+01
	.750087201595D-05	.751535827294D-02	.250898301601D-05	.515364655495D+04
	.403200000000D+06	-.204890966415D-07	.891068000033D+00	-.113621354103D-06
	.968880902327D+00	.339031250000D+03	.501554409286D+00	-.805176395972D-08
	.336085406079D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.200000000000D+01	.000000000000D+00	.000000000000D+00	.522000000000D+03
	.398835000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
4 07	6 14 16 0 0.0	.968668609858D-05	-.795807864051D-12	.000000000000D+00
	.105000000000D+03	.878125000000D+02	.451054502516D-08	-.131123846548D+01
	.433064997196D-05	.765742314979D-02	.104419887066D-04	.515357321167D+04
	.403200000000D+06	.949949026108D-07	-.166627494213D+00	-.139698386192D-06
	.946015239663D+00	.165656250000D+03	.265558081263D+00	-.780139638805D-08
	-.247153130265D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.200000000000D+01	.000000000000D+00	.000000000000D+00	.617000000000D+03
	.398940000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00
30 07	6 14 16 0 0.0	.366251915693D-04	.102318153949D-11	.000000000000D+00
	.156000000000D+03	.687500000000D+00	.476805575152D-08	-.218842259320D+01
	.912696123123D-07	.977814092766D-02	.819005072117D-05	.515375581551D+04
	.403200000000D+06	.184401869774D-06	-.231248331429D+01	-.372529029846D-07
	.946287204912D+00	.213750000000D+03	.133003360101D+01	-.774282251964D-08
	.605739517197D-09	.000000000000D+00	.143100000000D+04	.000000000000D+00
	.100000000000D+01	.000000000000D+00	.000000000000D+00	.156000000000D+03
	.399345000000D+06	.000000000000D+00	.000000000000D+00	.000000000000D+00

ANEXO 5 – Arquivo de efemérides precisas do IGS (SP3)

```

#cP2007 6 14 0 0 0.00000000 96 ORBIT IGS05 HLM IGS
## 1431 345600.00000000 900.00000000 54265 0.00000000000000
+ 31 G01G02G03G04G05G06G07G08G09G10G11G12G13G14G16G17G18
+ G19G20G21G22G23G24G25G26G27G28G29G30G31G32 0 0 0
+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
++ 3 3 3 3 2 2 2 3 3 3 3 3 3 3 3 3 3 3
++ 3 3 3 3 3 3 3 3 3 3 3 2 3 0 0 0 0
++ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
++ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
++ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
%c G cc GPS ccc cccc cccc cccc cccc cccc cccc cccc cccc cccc
%c cc cc ccc ccc cccc cccc cccc cccc cccc cccc cccc cccc
%f 1.2500000 1.025000000 0.000000000000 0.0000000000000000
%f 0.00000000 0.0000000000 0.000000000000 0.0000000000000000
%i 0 0 0 0 0 0 0 0 0 0 0 0
%i 0 0 0 0 0 0 0 0 0 0 0 0
/* FINAL ORBIT COMBINATION FROM WEIGHTED AVERAGE OF:
/* cod emr esa gfz jpl mit ngs sio
/* REFERENCED TO IGS TIME (IGST) AND TO WEIGHTED MEAN POLE:
/* PCV:IGS05_1421 OL/AL:FES2004 NONE Y ORB:CMB CLK:CMB
* 2007 6 14 11 30 0.00000000
PG01 -14799.549263 20946.962123 -6552.089418 134.054819 7 6 6 131
PG02 17132.619214 -13187.380806 15021.331168 114.122195 10 6 8 181
PG03 -9901.698844 24224.113986 3104.420986 72.109227 7 6 8 161
PG04 25225.692295 -6890.848548 5562.586829 9.693182 7 7 10 156
PG05 -14877.037293 -21625.673561 -4812.292979 50.364808 7 6 5 142
PG06 -10879.935423 -13626.969102 20217.531577 213.762247 8 7 4 140
PG07 -13148.492612 -9872.571993 21199.845328 256.008554 8 7 6 167
PG08 26470.758938 613.402927 4031.804201 -111.033105 7 9 10 172
PG09 -3516.633546 -14987.020884 -22251.857829 74.473258 9 10 7 173
PG10 5712.830964 -15898.546522 20295.502767 103.312956 5 2 6 152
PG11 6651.585418 15384.352955 -20726.705721 18.363060 10 9 7 139
PG12 -10467.960859 -23029.492937 -8089.677578 -46.799437 10 8 10 179
PG13 9872.475953 11918.964450 21484.292398 181.378274 10 8 8 176
PG14 -17029.391406 8315.031060 -18491.411878 24.899329 11 7 9 175
PG16 -10557.677590 11142.889101 21748.525851 155.494174 9 9 7 155
PG17 17187.940710 -5607.468346 -19394.072026 64.691518 6 8 7 141
PG18 -19411.062822 -15244.614889 -10112.217839 -247.387314 9 8 10 171
PG19 -6467.352135 24592.807143 -7354.068132 42.653253 10 6 8 169
PG20 11683.936469 22897.663319 -6863.268911 -25.629748 10 6 6 141
PG21 -23168.127060 -6570.563440 11950.652384 77.920145 11 8 7 176
PG22 -18553.353508 -3640.789130 -18515.449064 186.578644 10 9 10 174
PG23 3406.062386 20572.543959 16241.910918 173.725997 10 7 7 144
PG24 -11937.371236 -13159.013877 19857.502768 7.408553 8 6 9 164
PG25 16833.722930 9506.805750 18513.298589 315.304285 8 3 9 177
PG26 7766.398598 -24647.974353 -5060.610224 -249.789292 4 6 3 147
PG27 22640.963351 5352.024970 13668.697055 116.545594 8 6 7 186
PG28 19509.075277 7736.520668 -16142.483171 -0.967645 8 12 8 156
PG29 10508.909051 -24164.029149 503.839361 3.724425 3 5 2 141
PG30 -17582.520561 -19925.303918 1301.361838 36.596505 8 3 8 155
PG31 -24247.151078 8307.394018 7308.703874 17.960890 8 10 6 181
PG32 -11320.441507 9527.100069 -21593.586654 999999.999999
* 2007 6 14 11 45 0.00000000
PG01 -14579.488570 20027.408756 -9275.801709 134.057298 7 6 6 137
PG02 18792.225175 -13212.066528 12865.805805 114.124778 10 5 8 181
PG03 -10121.708615 23601.574126 5843.286524 72.115501 7 6 7 165
PG04 25741.628117 -6698.217208 2810.624210 9.692386 8 7 10 159
PG05 -14200.867362 -21339.446808 -7499.378855 50.411881 7 7 5 151
PG06 -10041.765113 -15690.196446 19110.862987 213.771091 8 8 4 130
PG07 -12380.545900 -12068.503736 20497.249147 255.991896 8 7 6 164
PG08 25868.550606 848.583064 6809.020129 -111.033878 7 9 10 172
PG09 -1149.400695 -15444.679128 -22165.642786 74.474312 9 10 7 169

```

PG10	7249.776364	-14051.638729	21172.023513	103.313781	5		5	157
PG11	4397.262062	16141.850849	-20724.847649	18.363904	10	9	7	134
PG12	-9606.615258	-22331.988533	-10663.726574	-46.799840	9	7	10	178
PG13	8882.080392	14127.109862	20566.312747	181.381264	10	7	8	171
PG14	-16283.869526	6232.142165	-19927.526531	24.901479	11	7	9	174
PG16	-12105.079377	9209.133985	21860.893476	155.496800	9	9	7	152
PG17	16457.342679	-3433.554131	-20513.149744	64.690235	7	8	7	135
PG18	-19836.040979	-16199.895156	-7537.588853	-247.386263	9	7	10	169
PG19	-7000.207110	25117.592975	-4609.961810	42.656399	10	7	8	169
PG20	10897.566659	22352.232388	-9489.877373	-25.630149	9	7	6	128
PG21	-21746.382939	-6965.313099	14160.743704	77.920925	11	8	7	170
PG22	-19642.037987	-5392.697971	-16912.104787	186.579917	10	8	10	172
PG23	2611.363800	22152.404826	14173.071292	173.728792	10	6	7	127
PG24	-9664.141846	-13508.838202	20869.731504	7.410275	8	6	8	162
PG25	14799.985144	10161.048024	19893.292583	315.323504	8	4	9	178
PG26	8095.517050	-24908.003404	-2147.767236	-249.808420	4	6	3	140
PG27	21135.029182	5844.641868	15793.520064	116.547541	8	5	7	186
PG28	20461.508714	9242.211248	-14115.739917	-0.968195	8	11	9	164
PG29	10624.814231	-23901.196904	3425.672022	3.723974	3	5	2	134
PG30	-17379.653492	-20130.994247	-1518.679413	36.595893	9	3	8	160
PG31	-24930.890645	8185.633609	4560.257189	17.960293	8	9	7	182
PG32	-12771.801733	7405.494507	-21604.222851	999999.999999				
* 2007 6 14 12 0 0.00000000								
PG01	-14308.114718	18812.365357	-11837.890002	134.059717	8	6	5	149
PG02	20195.452270	-13261.204591	10483.000727	114.127517	10	6	9	180
PG03	-10307.187538	22690.096094	8478.992711	72.119730	6	7	7	163
PG04	25961.596371	-6469.728630	11.283629	9.691938	8	7	10	157
PG05	-13296.544582	-20887.202691	-10059.524846	50.459027	7	7	5	154
PG06	-9341.035334	-17655.584936	17680.028400	213.780027	9	8	5	119
PG07	-11743.441322	-14206.631607	19451.901315	255.975334	8	8	6	163
PG08	24978.567201	1171.178438	9471.667488	-111.036120	8	9	10	168
PG09	1163.464063	-16024.186520	-21717.937663	74.475005	8	10	6	172
PG10	8932.154919	-12230.936720	21678.629278	103.314062	6	1	5	160
PG11	2192.027125	16986.114094	-20369.358219	18.364751	10	9	7	136
PG12	-8518.538793	-21473.271466	-13053.956663	-46.800846	9	6	10	179
PG13	8061.503866	16269.593617	19291.420722	181.384473	10	7	7	163
PG14	-15610.542017	3974.446121	-21017.569223	24.903070	11	7	9	175
PG16	-13745.848440	7367.143353	21600.117891	155.499409	8	9	7	153
PG17	15807.446237	-1124.262996	-21277.738483	64.689043	8	8	8	120
PG18	-20118.769321	-16903.463222	-4835.188339	-247.385385	9	7	10	169
PG19	-7390.085395	25374.261330	-1785.775174	42.659006	10	7	8	168
PG20	9888.696535	21638.211763	-11954.194636	-25.630692	9	7	6	133
PG21	-20115.672137	-7474.700643	16135.405557	77.920516	10	8	8	166
PG22	-20689.938207	-6933.578191	-15014.901510	186.581428	10	8	10	173
PG23	1976.868435	23534.039118	11856.646029	173.731319	10	6	8	131
PG24	-7322.691665	-13990.272587	21527.370383	7.413174	8	7	8	164
PG25	12677.200211	10961.710601	20939.921583	315.342856	8	4	9	174
PG26	8300.990736	-24867.167995	803.189636	-249.827738	4	6	3	139
PG27	19448.141250	6476.646579	17660.288104	116.549101	8	5	7	183
PG28	21329.989368	10508.062215	-11844.952059	-0.969156	9	11	9	163
PG29	10654.366756	-23330.358817	6287.354349	3.723218	2	6	3	133
PG30	-16967.458709	-20119.857778	-4312.842514	36.597461	9	4	9	167
PG31	-25314.068333	8029.320936	1733.981335	17.959445	8	9	7	184
PG32	-14320.626452	5379.531975	-21226.162952	999999.999999				
* 2007 6 14 12 15 0.00000000								
PG01	-14026.603884	17313.115808	-14193.312632	134.062561	9	6	5	146
PG02	21322.911008	-13299.341625	7915.147806	114.130054	10	6	9	183
PG03	-10492.769327	21499.047134	10964.810300	72.123691	6	7	7	164
PG04	25890.307138	-6169.769037	-2788.249541	9.690828	9	8	9	151
PG05	-12156.586685	-20305.885588	-12449.744369	50.506106	7	8	5	141
PG06	-8770.713751	-19480.163007	15948.857989	213.788996	9	8	6	133
PG07	-11234.215976	-16242.872033	18080.632662	255.958503	8	8	6	163
PG08	23824.487503	1613.359745	11974.535310	-111.038326	8	9	10	167
PG09	3379.229863	-16707.874556	-20915.042071	74.475922	8	9	6	172
PG10	10731.947605	-10478.229370	21807.346215	103.314340	7	2	4	166
PG11	74.034876	17896.670661	-19665.443388	18.365537	10	9	8	147
PG12	-7199.118378	-20494.078183	-15218.867228	-46.801631	8	6	10	174
PG13	7409.670457	18296.390492	17682.018146	181.387267	10	7	7	157

PG14	-15038.578566	1582.911652	-21742.708654	24.904766	11	8	10	175
PG16	-15444.997093	5650.591332	20971.072165	155.501886	8	9	7	148
PG17	15261.993013	1278.196609	-21674.990626	64.687862	8	9	8	115
PG18	-20224.233638	-17368.088285	-2051.016622	-247.384364	9	6	10	163
PG19	-7668.554000	25343.204935	1069.404843	42.661918	10	8	9	166
PG20	8650.847955	20794.804043	-14214.281750	-25.631012	9	8	6	143
PG21	-18311.672239	-8117.283260	17841.214913	77.921384	10	8	8	157
PG22	-21655.321649	-8251.527686	-12857.172359	186.582870	10	8	10	171
PG23	1482.377325	24679.404132	9333.052480	173.733881	10	5	8	144
PG24	-4960.461167	-14603.724031	21820.282568	7.415641	8	6	7	162
PG25	10511.638146	11907.975752	21636.614607	315.361993	8	5	9	174
PG26	8419.793489	-24509.665016	3739.745720	-249.846881	4	5	3	136
PG27	17621.045807	7261.910229	19239.548186	116.551826	8	4	7	179
PG28	22073.393241	11532.242163	-9370.379205	-0.969847	9	11	10	161
PG29	10638.240207	-22451.713059	9038.967240	3.722912	3	6	3	131
PG30	-16325.718813	-19922.101912	-7033.716827	36.598096	9	5	9	165
PG31	-25397.823544	7800.711176	-1121.945077	17.959070	8	9	7	184
PG32	-15930.524610	3487.376834	-20466.093280	999999.999999				
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PG01	-13774.255833	15550.143648	-16300.527000	134.063994	9	7	5	154
PG02	22163.875138	-13289.298272	5207.740428	114.132526	10	6	8	183
PG03	-10711.380803	20046.211547	13256.625963	72.128128	7	8	8	163
PG04	25540.521595	-5764.723969	-5540.860669	9.690149	9	8	9	165
PG05	-10781.330807	-19634.392970	-14630.031398	50.553061	6	8	5	141
PG06	-8316.658632	-21123.970687	13946.302265	213.797823	9	8	6	126
PG07	-10842.591741	-18135.017112	16405.676738	255.941556	8	8	6	158
PG08	22437.155769	2202.166343	14274.813365	-111.039192	8	8	9	165
PG09	5458.858912	-17471.148568	-19768.828933	74.477412	8	8	6	168
PG10	12614.613912	-8830.192912	21556.891509	103.315693	8	4	4	168
PG11	-1922.562966	18847.335554	-18624.274057	18.366518	9	9	7	158
PG12	-5652.269369	-19436.814347	-17120.754716	-46.802665	8	7	9	171
PG13	6916.872185	20159.794542	15766.303575	181.390268	10	7	6	143
PG14	-14590.134469	-896.386373	-22090.512556	24.906253	10	8	10	172
PG16	-17162.820693	4086.555646	19984.831286	155.504441	8	9	8	141
PG17	14837.563822	3727.838499	-21698.437382	64.686461	9	9	9	117
PG18	-20121.728273	-17613.834672	767.775324	-247.383389	9	5	10	164
PG19	-7870.705735	25013.027499	3906.061508	42.664654	10	9	9	169
PG20	7185.695936	19863.114222	-16231.741372	-25.631684	9	9	5	155
PG21	-16374.160790	-8904.892740	19248.929267	77.921360	10	7	8	142
PG22	-22496.628892	-9343.122612	-10476.701953	186.584516	10	8	10	165
PG23	1101.269355	25556.756331	6646.389783	173.736542	10	5	8	149
PG24	-2624.437806	-15341.704575	21744.452141	7.418449	8	6	7	158
PG25	8349.186708	12991.139158	21972.547271	315.381536	7	5	8	169
PG26	8491.581453	-23829.347241	6609.088196	-249.866239	5	5	3	121
PG27	15697.032347	8206.916844	20506.445013	116.553540	8	3	7	179
PG28	22652.655577	12321.498303	-6735.376203	-0.970536	10	11	10	159
PG29	10617.119824	-21274.911480	11632.874902	3.723649	5	6	3	120
PG30	-15441.276032	-19572.413932	-9635.445329	36.599571	9	5	9	154
PG31	-25191.928055	7463.705579	-3958.614125	17.958151	8	9	7	185
PG32	-17559.913313	1760.304487	-19337.871233	999999.999999				
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PG01	-13586.809695	13552.518703	-18122.274058	134.063835	10	7	5	144
PG02	22716.543295	-13193.815207	2408.658186	114.135034	9	7	8	185
PG03	-10992.739108	18357.218444	15313.796650	72.132718	7	8	8	163
PG04	24932.522417	-5224.425814	-8200.246369	9.689479	9	8	9	167
PG05	-9179.076433	-18912.037703	-16563.973673	50.600074	6	8	5	140
PG06	-7958.286752	-22551.461974	11705.991017	213.806734	9	8	6	129
PG07	-10551.448207	-19844.172128	14454.377497	255.924914	8	8	6	156
PG08	20853.510195	2958.267823	16332.809205	-111.040695	8	8	9	160
PG09	7368.266663	-18283.321656	-18296.661652	74.479341	7	8	7	162
PG10	14540.323342	-7317.118599	20932.629715	103.315686	9	5	5	169
PG11	-3768.747724	19807.149262	-17262.858545	18.367224	9	9	8	162
PG12	-3890.508629	-18343.889298	-18726.391636	-46.803511	9	8	9	167
PG13	6565.315802	21816.141003	13577.753052	181.393196	9	7	6	134
PG14	-14279.490974	-3413.868433	-22055.157694	24.907891	10	8	10	171
PG16	-18856.310456	2694.665436	18658.465459	155.506838	7	9	8	144
PG17	14542.971257	6176.484870	-21348.074414	64.685749	9	9	9	136
PG18	-19786.107611	-17667.119272	3573.645703	-247.382442	8	5	9	162

PG19	-8033.583339	24381.024054	6675.127662	42.667687	10	9	9	171
PG20	5503.186707	18884.538904	-17972.344880	-25.631766	8	9	4	170
PG21	-14345.677416	-9842.006189	20333.978708	77.921940	10	7	8	131
PG22	-23174.112370	-10213.318673	-7915.031404	186.585827	10	8	9	164
PG23	801.752359	26141.847575	3843.633078	173.738994	10	6	8	160
PG24	-359.573536	-16189.087064	21301.985496	7.421071	8	6	6	155
PG25	6233.808977	14194.854559	21942.752425	315.401025	7	5	8	168
PG26	8556.893224	-22830.162086	9359.174173	-249.885717	5	5	3	116
PG27	13720.479690	9310.427850	21441.002646	116.555519	7	2	7	176
PG28	23032.296359	12890.618817	-3985.599482	-0.971177	10	10	10	156
PG29	10629.927927	-19818.724234	14024.561576	3.723189	6	7	3	92
PG30	-14308.645373	-19108.507834	-12074.447400	36.601246	9	6	9	152
PG31	-24714.392153	6985.441384	-6727.213802	17.957753	7	8	7	180
PG32	-19163.630753	221.619440	-17862.230560	999999.999999				
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PG03	-11361.986276	16464.656411	17099.934609	72.137283	7	8	9	166
PG04	24093.321020	-4523.474896	-10721.640769	9.688340	8	8	8	162
PG05	-7365.938228	-18177.015692	-18219.305470	50.647157	6	8	6	136
PG06	-7669.497255	-23732.759277	9265.711308	213.815677	9	8	6	130
PG07	-10337.561259	-21336.092579	12258.817539	255.908235	8	8	6	155
PG08	19115.284832	3894.954245	18112.635572	-111.042113	8	7	9	153
PG09	9079.425176	-19108.684815	-16521.245225	74.480094	7	7	7	168
PG10	16465.393866	-5961.912563	19946.407113	103.316194	9	7	5	170
PG11	-5441.574216	20741.522147	-15603.813069	18.368028	9	9	7	166
PG12	-1934.692794	-17256.056862	-20007.631901	-46.804212	9	9	9	160
PG13	6329.992517	23227.374616	11154.509646	181.396250	9	7	6	114
PG14	-14112.520121	-5918.187445	-21637.518387	24.909832	9	8	10	167
PG16	-20480.697878	1486.538867	17014.740649	155.509187	8	9	8	153
PG17	14378.968692	8575.433484	-20630.334463	64.684376	10	9	10	128
PG18	-19198.834268	-17559.548929	6319.415341	-247.381349	8	5	9	160
PG19	-8194.538186	23453.331125	9328.848111	42.670532	10	9	10	173
PG20	3621.343853	17899.162025	-19406.588041	-25.632263	7	9	3	175
PG21	-12270.082485	-10925.384924	21076.907246	77.922300	10	7	9	119
PG22	-23651.408707	-10875.026978	-5216.703946	186.587084	10	8	9	163
PG23	548.323467	26418.834129	973.773042	173.741389	9	7	7	165
PG24	1792.706189	-17123.653295	20501.022985	7.423046	7	6	6	151
PG25	4206.087009	15495.660983	21548.153341	315.420362	6	6	7	166
PG26	8655.289035	-21526.177114	11939.817064	-249.905421	6	4	4	115
PG27	11735.384908	10563.416634	22028.353765	116.557869	7	2	7	173
PG28	23181.797697	13261.603631	-1168.205230	-0.971996	10	10	10	162
PG29	10712.148665	-18110.357790	16173.385658	3.721741	7	7	3	91
PG30	-12930.342685	-18569.585644	-14310.087963	36.601552	9	6	9	144
PG31	-23990.762686	6337.773708	-9379.867547	17.957311	6	7	8	174
PG32	-20694.709499	-1114.078247	-16066.328582	999999.999999				
* 2007 6 14 13 15 0.00000000								
PG01	-13522.750892	9006.496488	-20785.916760	134.069606	10	7	6	143
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PG03	-11838.520716	14406.911867	18583.603238	72.141736	7	8	9	164
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PG05	-5365.415654	-17464.933534	-19568.395205	50.694181	7	9	6	133
PG06	-7419.819024	-24644.711889	6666.809642	213.824618	9	8	6	125
PG07	-10172.584807	-22582.371892	9855.366914	255.891453	8	7	6	156
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PG11	-6924.882895	21613.543849	-13675.029710	18.368726	9	9	8	170
PG12	186.571039	-16210.828119	-20941.929897	-46.805068	9	9	8	152
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PG14	-14086.494248	-8358.032965	-20845.132884	24.911231	9	8	10	165
PG16	-21991.073475	465.529323	15081.731729	155.511844	9	9	9	156
PG17	14338.284939	10877.141855	-19557.949311	64.683387	10	10	10	142
PG18	-18348.788144	-17326.581907	8959.005978	-247.380389	8	5	9	162
PG19	-8389.589738	22244.743033	11821.608896	42.673336	10	9	10	171
PG20	1565.770407	16944.217127	-20510.167980	-25.632370	7	10	3	183
PG21	-10191.060516	-12143.999827	21463.755244	77.922269	10	7	9	130
PG22	-23896.983195	-11348.385003	-2428.466872	186.588699	9	7	9	166

PG23	303.377810	26380.861915	-1913.080700	173.744334	9	8	7	168
PG24	3795.850742	-18116.911493	19355.565516	7.426196	8	6	6	156
PG25	2301.899424	16863.772285	20795.521980	315.440173	6	6	7	165
PG26	8823.514130	-19941.180486	14303.758216	-249.925107	7	4	4	119
PG27	9783.919671	11949.272682	22258.918929	116.560234	7	2	7	169
PG28	23076.785444	13462.582990	1668.946452	-0.972431	10	10	10	164
PG29	10894.317974	-16184.460401	18043.239684	3.721980	8	8	4	67
PG30	-11316.920086	-17994.770493	-16305.286963	36.604549	9	7	9	127
PG31	-23053.136293	5498.589787	-11870.473789	17.956404	5	7	8	162
PG32	-22106.229546	-2241.248304	-13983.150633	999999.999999				
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PG01	-13687.066988	6549.118022	-21580.630101	134.073264	10	7	6	140
PG02	22756.286456	-12055.065265	-6043.364950	114.142668	8	8	7	169
PG03	-12435.076246	12226.780412	19738.906730	72.146635	7	8	10	162
PG04	21856.639129	-2568.523727	-15183.273487	9.686502	8	8	7	161
PG05	-3207.695702	-16807.448089	-20588.663854	50.741216	7	9	7	137
PG06	-7175.740195	-25271.716692	3953.524972	213.833803	9	8	6	133
PG07	-10024.244067	-23561.434624	7284.153622	255.874753	8	7	7	156
PG08	15356.992505	6322.215115	20717.080028	-111.045089	8	6	8	149
PG09	11830.375180	-20638.870040	-12176.789101	74.482912	6	7	8	172
PG10	20129.231937	-3775.974221	16966.091799	103.318157	9	8	6	174
PG11	-8209.753337	22385.409143	-11509.243431	18.369280	10	9	7	176
PG12	2437.821743	-15241.019437	-21512.762055	-46.805785	9	10	7	150
PG13	6079.105463	25198.190467	5775.653956	181.402227	9	8	7	140
PG14	-14190.246247	-10683.931731	-19692.049530	24.912998	8	7	10	163
PG16	-23344.020144	-373.212186	12892.354451	155.514112	9	9	9	164
PG17	14405.981005	13036.864312	-18149.705295	64.682076	10	10	11	147
PG18	-17232.809073	-17006.062787	11448.155419	-247.379494	8	5	9	160
PG19	-8651.850980	20778.203989	14110.718643	42.676200	10	9	10	174
PG20	-631.134338	16052.673304	-21264.375385	-25.632923	7	10	5	190
PG21	-8150.619912	-13479.252506	21486.374034	77.922610	10	6	9	144
PG22	-23885.390934	-11659.754980	401.554362	186.590311	8	7	9	168
PG23	28.898664	26030.305246	-4766.612916	173.746663	8	9	6	176
PG24	5619.344613	-19135.151452	17885.220919	7.429608	8	6	6	157
PG25	551.276029	18264.100883	19697.364484	315.459406	5	6	7	168
PG26	9093.773128	-18107.866143	16407.689214	-249.944572	7	4	5	124
PG27	7905.057339	13444.268101	22128.537076	116.561378	7	3	6	172
PG28	22699.976464	13526.530591	4478.069481	-0.973299	10	9	10	166
PG29	11200.735584	-14081.860544	19603.108139	3.722128	8	8	4	78
PG30	-9486.711376	-17421.567987	-18027.064554	36.604766	9	7	9	105
PG31	-21938.922442	4452.901075	-14155.529991	17.955980	5	6	8	177
PG32	-23353.167762	-3163.376573	-11650.791937	999999.999999				
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PG01	-13996.330500	4035.905599	-21996.416190	134.076748	9	7	6	136
PG02	22305.913897	-11299.555877	-8714.865469	114.145229	7	8	7	157
PG03	-13157.087847	9969.910619	20545.959962	72.152989	7	8	10	161
PG04	20536.632260	-1296.777249	-17047.844848	9.685691	8	8	6	168
PG05	-928.713689	-16231.065647	-21262.930721	50.788315	7	9	7	129
PG06	-6902.170729	-25606.267296	1172.260877	213.842901	9	8	6	133
PG07	-9857.700236	-24259.295226	4588.458366	255.857652	8	7	7	157
PG08	13430.444367	7797.367041	21494.483041	-111.048266	8	6	7	148
PG09	12851.365287	-21259.469661	-9677.481556	74.483481	6	7	8	176
PG10	21776.004169	-2949.542106	15025.075695	103.318811	9	9	7	177
PG11	-9294.678199	23019.905803	-9143.502057	18.370180	10	9	7	177
PG12	4777.914725	-14373.494185	-21709.941436	-46.806656	9	10	7	145
PG13	5988.982869	25720.531686	2913.155939	181.405114	9	8	7	147
PG14	-14404.672512	-12849.974421	-18198.557004	24.914900	7	7	9	163
PG16	-24499.201165	-1042.362142	10483.823140	155.516651	10	9	10	166
PG17	14560.113097	15014.180245	-16430.098202	64.680949	10	10	11	139
PG18	-15855.954917	-16636.683691	13745.102181	-247.378111	8	6	9	160
PG19	-9010.081542	19083.998260	16157.128837	42.678848	10	9	10	171
PG20	-2931.214231	15251.997053	-21656.397025	-25.633234	8	10	6	191
PG21	-6187.642632	-14905.491843	21142.663097	77.923631	9	6	9	158
PG22	-23598.307195	-11840.492206	3224.694176	186.591321	8	6	10	174
PG23	-311.840929	25378.650980	-7537.213472	173.749183	8	10	6	176
PG24	7239.641138	-20140.698311	16114.875025	7.430510	8	6	6	163
PG25	-1022.533181	19657.480761	18271.735611	315.478687	5	6	6	166
PG26	9492.198615	-16066.635522	18213.190677	-249.963907	8	5	5	130

PG27	6133.312197	15018.272936	21638.547100	116.563762	6	4	7	169
PG28	22041.862718	13489.823189	7212.201983	-0.974288	10	9	10	165
PG29	11648.444972	-11848.092775	20827.518466	3.722180	8	9	4	89
PG30	-7465.299676	-16884.410002	-19447.018706	36.605107	9	7	9	111
PG31	-20689.401892	3193.666354	-16194.925067	17.955371	6	7	9	182
PG32	-24394.162220	-3892.560579	-9111.640874	999999.999999				
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PG01	-14450.372984	1519.282140	-22026.043691	134.080323	9	7	7	135
PG02	21677.317996	-10325.235717	-11235.029949	114.147977	6	9	7	143
PG03	-14002.370000	7683.146738	20991.228995	72.157544	7	8	10	168
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