

Input file: C:\projects\04106\adjust\04106.iob
Output file: C:\projects\04106\adjust\04106.lst
Options file: C:\Program Files\Microsearch\GeoLab\default.gpj

Geoid File: C:\geoids\geoid03\g2003u04.gsp

PARAMETERS		OBSERVATIONS	
Description	Number	Description	Number
No. of Stations	24	Directions	0
Coord Parameters	64	Distances	0
Free Latitudes	21	Azimuths	0
Free Longitudes	21	Vertical Angles	0
Free Heights	22	Zenithal Angles	0
Fixed Coordinates	8	Angles	0
Astro. Latitudes	0	Heights	0
Astro. Longitudes	0	Height Differences	0
Geoid Records	0	Auxiliary Params.	0
All Aux. Pars.	0	2-D Coords.	0
Direction Pars.	0	2-D Coord. Diffs.	0
Scale Parameters	0	3-D Coords.	0
Constant Pars.	0	3-D Coord. Diffs.	87
Rotation Pars.	0		
Translation Pars.	0		
	-----		-----
Total Parameters	64	Total Observations	87
Degrees of Freedom =		23	

SUMMARY OF SELECTED OPTIONS

OPTION	SELECTION
Computation Mode	Adjustment
Maximum Iterations	31
Convergence Criterion	0.00100
Angular Misclosure Limit Factor	2.00
Linear Misclosure Limit Factor	2.00
Residual Rejection Criterion	Tau Max
Confidence Region Types	1D 2D Station
Variance Factor (VF) Known	Yes
Scale Covariance Matrix With VF	Yes
Scale Residual Variances With VF	Yes
Force Convergence in Max Iters	No
Distances Contribute To Heights	No
Compute Full Inverse	Yes
Optimize Band Width	Yes

```
=====
                                04106
Microsearch GeoLab, V2001.9.20.0      WGS 84      UNITS: m,DMS  Page 0002
=====
Generate Initial Coordinates          |   Yes
Re-Transform Obs After 1st Pass       |   Yes
Geoid Interpolation Method            | Bi-Quadratic
-----
```

Input Station Data:

FFF STATION	ELIP-LATITUDE	ELIP-LONGITUDE	ELIP-HEIGHT
	ASTRO-LATITUDE	ASTRO-LONGITUDE	ORTHO-HEIGHT
	N/S DEFLECTION	N/S DEFLECTION	GEOID-HEIGHT
000 04106A	N 41 35 1.33575	W 72 3 31.14183	37.633
	N 41 34 58.53575	W 72 3 29.39046	67.829
	- 0 0 2.80	0 0 1.31	-30.196
000 04106B	N 41 26 24.85155	W 72 0 52.42585	64.373
	N 41 26 22.85155	W 72 0 52.19908	94.826
	- 0 0 2.00	0 0 0.17	-30.453
000 04106C	N 41 21 22.12525	W 71 51 6.98666	-11.805
	N 41 21 19.03525	W 71 51 7.70607	18.798
	- 0 0 3.09	- 0 0 0.54	-30.603
000 04106D	N 41 27 50.67142	W 72 16 49.51013	45.554
	N 41 27 48.01142	W 72 16 45.73363	75.748
	- 0 0 2.66	0 0 2.83	-30.194
000 04106E	N 41 19 1.57332	W 72 16 53.80071	20.416
	N 41 18 56.92332	W 72 16 50.52537	50.897
	- 0 0 4.65	0 0 2.46	-30.481
000 04106F	N 41 24 7.39854	W 72 32 14.36011	117.381
	N 41 24 3.37854	W 72 32 9.26737	147.346
	- 0 0 4.02	0 0 3.82	-29.965
000 04106G	N 41 17 24.39672	W 72 31 44.96842	-19.307
	N 41 17 19.14672	W 72 31 40.81605	10.955
	- 0 0 5.25	0 0 3.12	-30.262
000 04106H	N 41 19 41.99936	W 72 45 55.51135	3.932
	N 41 19 36.83936	W 72 45 52.31535	33.780
	- 0 0 5.16	0 0 2.40	-29.848
000 04106I	N 41 25 40.26561	W 72 54 21.95625	5.803
	N 41 25 36.23561	W 72 54 16.68811	35.233
	- 0 0 4.03	0 0 3.95	-29.431
000 04106J	N 41 18 35.66272	W 72 57 36.71706	-15.470
	N 41 18 30.29272	W 72 57 30.47330	14.194
	- 0 0 5.37	0 0 4.69	-29.664
000 04106K	N 41 22 5.32883	W 73 8 47.16108	-14.388
	N 41 22 2.45883	W 73 8 48.80003	15.064
	- 0 0 2.87	- 0 0 1.23	-29.452
000 04106L	N 41 13 23.79975	W 73 6 57.05722	-11.626
	N 41 13 18.75975	W 73 6 55.91383	18.146
	- 0 0 5.04	0 0 0.86	-29.772
000 04106M	N 41 12 52.47527	W 73 25 58.00598	45.564
	N 41 12 49.35527	W 73 26 1.80792	75.425
	- 0 0 3.12	- 0 0 2.86	-29.861
000 04106N	N 41 6 32.91316	W 73 24 53.28832	-18.941
	N 41 6 27.97316	W 73 24 56.15510	11.120
	- 0 0 4.94	- 0 0 2.16	-30.061
000 04106O	N 41 2 54.02580	W 73 33 56.74093	-6.898
	N 41 2 49.50580	W 73 34 1.44818	23.532
	- 0 0 4.52	- 0 0 3.55	-30.430
000 04106P	N 41 5 32.27583	W 73 40 4.60918	80.926
	N 41 5 28.79583	W 73 40 10.79241	111.412
	- 0 0 3.48	- 0 0 4.66	-30.486

Input Station Data:

FFF STATION	ELIP-LATITUDE	ELIP-LONGITUDE	ELIP-HEIGHT
	ASTRO-LATITUDE	ASTRO-LONGITUDE	ORTHO-HEIGHT
	N/S DEFLECTION	N/S DEFLECTION	GEOID-HEIGHT
000 04106W	N 41 16 0.52444	W 72 52 56.65322	-26.051
	N 41 15 55.09444	W 72 52 52.92806	3.861
	- 0 0 5.43	0 0 2.80	-29.912
000 04106X	N 41 9 27.66618	W 73 27 57.57699	45.023
	N 41 9 24.05618	W 73 28 1.86706	75.030
	- 0 0 3.61	- 0 0 3.23	-30.007
000 04106Y	N 41 16 24.22773	W 72 33 26.70634	-23.135
	N 41 16 18.70773	W 72 33 22.72800	7.140
	- 0 0 5.52	0 0 2.99	-30.275
000 04106Z	N 41 23 56.11759	W 72 10 29.30540	37.188
	N 41 23 52.89759	W 72 10 26.11926	67.602
	- 0 0 3.22	0 0 2.39	-30.414
111 AI5582	N 41 16 4.79476	W 72 53 18.39305	-28.574
	N 41 15 59.40476	W 72 53 14.54809	1.328
	- 0 0 5.39	0 0 2.89	-29.902
111 LX0452	N 41 16 9.03408	W 72 35 57.56343	-28.091
	N 41 16 3.31408	W 72 35 53.82483	2.147
	- 0 0 5.72	0 0 2.81	-30.238
000 LX0815	N 41 7 16.44704	W 73 19 14.71916	-15.371
	N 41 7 11.39704	W 73 19 15.30324	14.607
	- 0 0 5.05	- 0 0 0.44	-29.978
110 RVDI	N 41 2 31.14727	W 73 34 52.37875	0.448
	N 41 2 26.60727	W 73 34 56.95296	30.917
	- 0 0 4.54	- 0 0 3.45	-30.469

Misclosures (pass 1):

NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION	STD.DEV.	MISC
DXCT		04106X	04106P	-14909.941	0.008	2.065
DYCT		04106X	04106P	-9402.384	0.011	-2.173
DZCT		04106X	04106P	-5445.761	0.010	-0.637
GROUP:	ID:71	RMS:0.018	Ratio:13.82	Variance:3.40	Duration:19	m Day
DXCT		RVDI	04106P	-8014.164	0.009	2.351
DYCT		RVDI	04106P	1410.992	0.011	-2.564
DZCT		RVDI	04106P	4266.366	0.010	-0.772
GROUP:	ID:72	RMS:0.008	Ratio:10.09	Variance:5.40	Duration:29	m Day
DXCT		RVDI	04106O	1112.193	0.007	1.563
DYCT		RVDI	04106O	819.738	0.007	-2.438
DZCT		RVDI	04106O	524.362	0.008	3.099
GROUP:	ID:74	RMS:0.014	Ratio:10.50	Variance:2.30	Duration:19	m Day
DXCT		04106W	04106J	-7154.216	0.008	-0.249
DYCT		04106W	04106J	1098.219	0.012	-0.918
DZCT		04106W	04106J	3601.922	0.009	1.235
GROUP:	ID:78	RMS:0.005	Ratio:28.73	Variance:2.20	Duration:12	m Day
DXCT		04106W	AI5582	-509.820	0.007	0.081
DYCT		04106W	AI5582	-64.081	0.007	0.023
DZCT		04106W	AI5582	98.132	0.007	-0.777
GROUP:	ID:80	RMS:0.024	FLOAT	Variance:4.90	Duration:425	m Day
DXCT		RVDI	04106W	51416.541	0.008	-0.087
DYCT		RVDI	04106W	32674.179	0.009	-0.016
DZCT		RVDI	04106W	18781.563	0.008	0.769
GROUP:	ID:81	RMS:0.025	FLOAT	Variance:4.60	Duration:345	m Day
DXCT		RVDI	04106Y	77275.656	0.010	-0.277
DYCT		RVDI	04106Y	41221.549	0.009	-0.252
DZCT		RVDI	04106Y	19332.229	0.009	1.632
GROUP:	ID:82	RMS:0.017	FLOAT	Variance:1.80	Duration:258	m Day
DXCT		RVDI	04106Z	104998.140	0.009	23.717
DYCT		RVDI	04106Z	59654.754	0.008	0.315
DZCT		RVDI	04106Z	29827.147	0.008	14.019
GROUP:	ID:83	RMS:0.011	FLOAT	Variance:0.80	Duration:258	m Day
DXCT		04106Y	04106Z	27722.482	0.008	23.996
DYCT		04106Y	04106Z	18433.244	0.008	0.527
DZCT		04106Y	04106Z	10494.889	0.008	12.417
GROUP:	ID:85	RMS:0.012	Ratio:5.29	Variance:1.50	Duration:29	m Day:
DXCT		04106X	04106O	-5783.550	0.007	1.243
DYCT		04106X	04106O	-9993.671	0.008	-2.014
DZCT		04106X	04106O	-9187.719	0.009	3.190
GROUP:	ID:86	RMS:0.018	FLOAT	Variance:2.30	Duration:242	m Day
DXCT		RVDI	04106X	6895.756	0.008	0.307
DYCT		RVDI	04106X	10813.459	0.011	-0.474
DZCT		RVDI	04106X	9712.082	0.009	-0.091
GROUP:	ID:87	RMS:0.015	FLOAT	Variance:1.70	Duration:242	m Day
DXCT		04106X	04106W	44520.773	0.008	-0.382
DYCT		04106X	04106W	21860.747	0.010	0.431
DZCT		04106X	04106W	9069.461	0.008	0.880
GROUP:	ID:89	RMS:0.018	Ratio:6.16	Variance:3.10	Duration:47	m Day:
DXCT		04106W	04106K	-23311.238	0.008	0.340

Misclosures (pass 1):

NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION	STD.DEV.	MISC
DYCT		04106W	04106K	642.448	0.009	-2.804
DZCT		04106W	04106K	8460.359	0.008	-0.061
GROUP: ID:90 RMS:0.016 Ratio:14.46 Variance:2.80 Duration:31 m Day						
DXCT		04106W	04106I	-5363.362	0.008	-0.280
DYCT		04106W	04106I	10688.579	0.009	-2.123
DZCT		04106W	04106I	13446.253	0.008	1.455
GROUP: ID:91 RMS:0.017 Ratio:10.28 Variance:2.40 Duration:36 m Day						
DXCT		04106W	04106L	-17779.434	0.008	1.723
DYCT		04106W	04106L	-8777.569	0.009	-2.460
DZCT		04106W	04106L	-3626.032	0.018	0.208
GROUP: ID:92 RMS:0.018 Ratio:83.56 Variance:2.20 Duration:24 m Day						
DXCT		04106X	04106N	5116.704	0.008	0.318
DYCT		04106X	04106N	-2127.330	0.008	-0.595
DZCT		04106X	04106N	-4104.711	0.008	2.264
GROUP: ID:94 RMS:0.018 Ratio:5.77 Variance:2.30 Duration:31 m Day:						
DXCT		04106X	LX0815	12433.607	0.007	-0.211
DYCT		04106X	LX0815	975.023	0.008	1.495
DZCT		04106X	LX0815	-3089.623	0.008	1.302

04106

Microsearch GeoLab, V2001.9.20.0 WGS 84 UNITS: m,DMS Page 0008

Solution (pass 1):

NAME	TYPE		OLD VALUE		CORRECTION		UPDATED VALUE
04106A	ELAT	N 41 35	1.33575	0 0	-0.03134	N 41 35	1.30441
04106A	ELON	W 72 03	31.14183	0 0	0.00041	W 72 03	31.14142
04106A	EHYT		37.633		-1.083		36.550
04106B	ELAT	N 41 26	24.85155	0 0	-0.01627	N 41 26	24.83528
04106B	ELON	W 72 00	52.42585	0 0	0.02403	W 72 00	52.40182
04106B	EHYT		64.373		-2.061		62.312
04106C	ELAT	N 41 21	22.12525	0 0	-0.03680	N 41 21	22.08845
04106C	ELON	W 71 51	6.98666	0 0	0.00712	W 71 51	6.97954
04106C	EHYT		-11.805		0.826		-10.979
04106D	ELAT	N 41 27	50.67142	0 0	-0.05607	N 41 27	50.61535
04106D	ELON	W 72 16	49.51013	0 0	0.00187	W 72 16	49.50826
04106D	EHYT		45.554		-5.645		39.909
04106E	ELAT	N 41 19	1.57332	0 0	-0.05420	N 41 19	1.51912
04106E	ELON	W 72 16	53.80071	0 0	0.02600	W 72 16	53.77471
04106E	EHYT		20.416		-2.547		17.869
04106F	ELAT	N 41 24	7.39854	0 0	-0.03855	N 41 24	7.35999
04106F	ELON	W 72 32	14.36011	0 0	0.00714	W 72 32	14.35297
04106F	EHYT		117.381		0.304		117.685
04106G	ELAT	N 41 17	24.39672	0 0	-0.01880	N 41 17	24.37792
04106G	ELON	W 72 31	44.96842	0 0	0.00208	W 72 31	44.96634
04106G	EHYT		-19.307		-0.802		-20.109
04106H	ELAT	N 41 19	41.99936	0 0	-0.04369	N 41 19	41.95567
04106H	ELON	W 72 45	55.51135	0 0	-0.00894	W 72 45	55.52029
04106H	EHYT		3.932		-5.666		-1.734
04106I	ELAT	N 41 25	40.26561	0 0	-0.01254	N 41 25	40.25307
04106I	ELON	W 72 54	21.95625	0 0	0.04198	W 72 54	21.91427
04106I	EHYT		5.803		-2.930		2.873
04106J	ELAT	N 41 18	35.66272	0 0	-0.03171	N 41 18	35.63101
04106J	ELON	W 72 57	36.71706	0 0	0.02537	W 72 57	36.69169
04106J	EHYT		-15.470		-1.926		-17.396
04106K	ELAT	N 41 22	5.32883	0 0	0.04212	N 41 22	5.37095
04106K	ELON	W 73 08	47.16108	0 0	0.02457	W 73 08	47.13651
04106K	EHYT		-14.388		-2.555		-16.943
04106L	ELAT	N 41 13	23.79975	0 0	0.03691	N 41 13	23.83666
04106L	ELON	W 73 06	57.05722	0 0	-0.03656	W 73 06	57.09378
04106L	EHYT		-11.626		-2.790		-14.416
04106M	ELAT	N 41 12	52.47527	0 0	0.10999	N 41 12	52.58526
04106M	ELON	W 73 25	58.00598	0 0	0.06304	W 73 25	57.94294
04106M	EHYT		45.564		-7.713		37.851
04106N	ELAT	N 41 06	32.91316	0 0	-0.02777	N 41 06	32.88539
04106N	ELON	W 73 24	53.28832	0 0	-0.01291	W 73 24	53.30123
04106N	EHYT		-18.941		-2.304		-21.245
04106O	ELAT	N 41 02	54.02580	0 0	-0.01629	N 41 02	54.00951
04106O	ELON	W 73 33	56.74093	0 0	-0.03428	W 73 33	56.77521
04106O	EHYT		-6.898		-4.134		-11.032
04106P	ELAT	N 41 05	32.27583	0 0	0.08555	N 41 05	32.36138
04106P	ELON	W 73 40	4.60918	0 0	-0.06587	W 73 40	4.67505
04106P	EHYT		80.926		-1.876		79.050
04106W	ELAT	N 41 16	0.52444	0 0	-0.01898	N 41 16	0.50546
04106W	ELON	W 72 52	56.65322	0 0	0.00357	W 72 52	56.64965

Solution (pass 1):

NAME	TYPE	OLD VALUE	CORRECTION	UPDATED VALUE
04106W	EHYT	-26.051	-0.506	-26.557
04106X	ELAT N 41 09	27.66618	0 0 0.01344	27.67962
04106X	ELON W 73 27	57.57699	0 0 -0.00717	57.58416
04106X	EHYT	45.023	-0.317	44.706
04106Y	ELAT N 41 16	24.22773	0 0 -0.03640	24.19133
04106Y	ELON W 72 33	26.70634	0 0 0.01335	26.69299
04106Y	EHYT	-23.135	-1.174	-24.309
04106Z	ELAT N 41 23	56.11759	0 0 -0.19159	55.92600
04106Z	ELON W 72 10	29.30540	0 0 -0.97647	30.28187
04106Z	EHYT	37.188	-14.514	22.674
LX0815	ELAT N 41 07	16.44704	0 0 -0.05017	16.39687
LX0815	ELON W 73 19	14.71916	0 0 -0.01684	14.73600
LX0815	EHYT	-15.371	-0.049	-15.420
RVDI	EHYT	0.448	-0.000	0.448

Adjusted PLH Coordinates:

CODE	FFF	STATION	LATITUDE			LONGITUDE			ELIP-HEIGHT	
			STD	DEV	STD	DEV	STD	DEV		
PLH	000	04106A	N 41 35	1.30441	W 72 3	31.14142	36.550	m	0	
				0.017		0.017	0.021			
PLH	000	04106B	N 41 26	24.83528	W 72 0	52.40182	62.312	m	0	
				0.016		0.017	0.021			
PLH	000	04106C	N 41 21	22.08845	W 71 51	6.97954	-10.979	m	0	
				0.017		0.017	0.024			
PLH	000	04106D	N 41 27	50.61535	W 72 16	49.50826	39.909	m	0	
				0.017		0.017	0.022			
PLH	000	04106E	N 41 19	1.51912	W 72 16	53.77471	17.869	m	0	
				0.012		0.012	0.016			
PLH	000	04106F	N 41 24	7.35999	W 72 32	14.35297	117.685	m	0	
				0.016		0.016	0.021			
PLH	000	04106G	N 41 17	24.37792	W 72 31	44.96634	-20.109	m	0	
				0.015		0.015	0.017			
PLH	000	04106H	N 41 19	41.95566	W 72 45	55.52029	-1.734	m	0	
				0.015		0.015	0.019			
PLH	000	04106I	N 41 25	40.25307	W 72 54	21.91427	2.873	m	0	
				0.016		0.015	0.020			
PLH	000	04106J	N 41 18	35.63101	W 72 57	36.69169	-17.396	m	0	
				0.011		0.011	0.015			
PLH	000	04106K	N 41 22	5.37095	W 73 8	47.13651	-16.943	m	0	
				0.016		0.015	0.020			
PLH	000	04106L	N 41 13	23.83666	W 73 6	57.09378	-14.416	m	0	
				0.023		0.015	0.033			
PLH	000	04106M	N 41 12	52.58526	W 73 25	57.94294	37.851	m	0	
				0.016		0.016	0.024			
PLH	000	04106N	N 41 6	32.88539	W 73 24	53.30123	-21.245	m	0	
				0.016		0.016	0.023			
PLH	000	04106O	N 41 2	54.00952	W 73 33	56.77521	-11.032	m	0	
				0.011		0.010	0.017			
PLH	000	04106P	N 41 5	32.36138	W 73 40	4.67505	79.050	m	0	
				0.011		0.011	0.021			
PLH	000	04106W	N 41 16	0.50546	W 72 52	56.64965	-26.557	m	0	
				0.008		0.008	0.011			
PLH	000	04106X	N 41 9	27.67962	W 73 27	57.58416	44.706	m	0	
				0.008		0.008	0.016			
PLH	000	04106Y	N 41 16	24.19133	W 72 33	26.69299	-24.309	m	0	
				0.008		0.008	0.011			
PLH	000	04106Z	N 41 23	55.92600	W 72 10	30.28187	22.674	m	0	
				0.009		0.010	0.015			
PLH	111	AI5582	N 41 16	4.79476	W 72 53	18.39305	-28.574	m	0	
				0.000		0.000	0.000			
PLH	111	LX0452	N 41 16	9.03408	W 72 35	57.56343	-28.091	m	0	
				0.000		0.000	0.000			
PLH	000	LX0815	N 41 7	16.39687	W 73 19	14.73600	-15.420	m	0	
				0.016		0.016	0.022			
PLH	110	RVDI	N 41 2	31.14727	W 73 34	52.37875	0.448	m	0	
				0.000		0.000	0.014			

Adjusted PLO Coordinates:

CODE	FFF	STATION	LATITUDE			LONGITUDE			O-HEIGHT	
			STD	DEV	STD	DEV	STD	DEV		
PLO	000	04106A	N 41 35	1.30441	W 72 3	31.14142	66.746	m	0	
				0.017		0.017	0.021			
PLO	000	04106B	N 41 26	24.83528	W 72 0	52.40182	92.765	m	0	
				0.016		0.017	0.021			
PLO	000	04106C	N 41 21	22.08845	W 71 51	6.97954	19.624	m	0	
				0.017		0.017	0.024			
PLO	000	04106D	N 41 27	50.61535	W 72 16	49.50826	70.103	m	0	
				0.017		0.017	0.022			
PLO	000	04106E	N 41 19	1.51912	W 72 16	53.77471	48.350	m	0	
				0.012		0.012	0.016			
PLO	000	04106F	N 41 24	7.35999	W 72 32	14.35297	147.651	m	0	
				0.016		0.016	0.021			
PLO	000	04106G	N 41 17	24.37792	W 72 31	44.96634	10.152	m	0	
				0.015		0.015	0.017			
PLO	000	04106H	N 41 19	41.95566	W 72 45	55.52029	28.115	m	0	
				0.015		0.015	0.019			
PLO	000	04106I	N 41 25	40.25307	W 72 54	21.91427	32.303	m	0	
				0.016		0.015	0.020			
PLO	000	04106J	N 41 18	35.63101	W 72 57	36.69169	12.267	m	0	
				0.011		0.011	0.015			
PLO	000	04106K	N 41 22	5.37095	W 73 8	47.13651	12.509	m	0	
				0.016		0.015	0.020			
PLO	000	04106L	N 41 13	23.83666	W 73 6	57.09378	15.356	m	0	
				0.023		0.015	0.033			
PLO	000	04106M	N 41 12	52.58526	W 73 25	57.94294	67.712	m	0	
				0.016		0.016	0.024			
PLO	000	04106N	N 41 6	32.88539	W 73 24	53.30123	8.816	m	0	
				0.016		0.016	0.023			
PLO	000	04106O	N 41 2	54.00952	W 73 33	56.77521	19.398	m	0	
				0.011		0.010	0.017			
PLO	000	04106P	N 41 5	32.36138	W 73 40	4.67505	109.536	m	0	
				0.011		0.011	0.021			
PLO	000	04106W	N 41 16	0.50546	W 72 52	56.64965	3.355	m	0	
				0.008		0.008	0.011			
PLO	000	04106X	N 41 9	27.67962	W 73 27	57.58416	74.713	m	0	
				0.008		0.008	0.016			
PLO	000	04106Y	N 41 16	24.19133	W 72 33	26.69299	5.966	m	0	
				0.008		0.008	0.011			
PLO	000	04106Z	N 41 23	55.92600	W 72 10	30.28187	53.088	m	0	
				0.009		0.010	0.015			
PLO	111	AI5582	N 41 16	4.79476	W 72 53	18.39305	1.328	m	0	
				0.000		0.000	0.000			
PLO	111	LX0452	N 41 16	9.03408	W 72 35	57.56343	2.147	m	0	
				0.000		0.000	0.000			
PLO	000	LX0815	N 41 7	16.39687	W 73 19	14.73600	14.558	m	0	
				0.016		0.016	0.022			
PLO	110	RVDI	N 41 2	31.14727	W 73 34	52.37875	30.916	m	0	
				0.000		0.000	0.014			

Adjusted XYZ Coordinates:

CODE	FFF	STATION	X-COORDINATE STD DEV	Y-COORDINATE STD DEV	Z-COORDINATE STD DEV		
XYZ		04106A	1471781.824 0.017	-4545505.652 0.019	4211154.015 0.019	m	0
XYZ		04106B	1478546.351 0.017	-4554434.452 0.019	4199239.629 0.018	m	0
XYZ		04106C	1493373.460 0.018	-4556036.577 0.021	4192184.995 0.019	m	0
XYZ		04106D	1456858.783 0.017	-4559561.340 0.019	4201208.298 0.020	m	0
XYZ		04106E	1460044.021 0.013	-4569856.282 0.014	4188947.960 0.014	m	0
XYZ		04106F	1437785.410 0.016	-4570451.141 0.019	4196095.889 0.018	m	0
XYZ		04106G	1440871.128 0.015	-4577981.475 0.016	4186671.628 0.016	m	0
XYZ		04106H	1421155.138 0.016	-4581221.365 0.017	4189871.870 0.017	m	0
XYZ		04106I	1407756.953 0.016	-4577715.967 0.019	4198169.135 0.017	m	0
XYZ		04106J	1405966.098 0.011	-4587306.324 0.014	4188324.807 0.013	m	0
XYZ		04106K	1389809.077 0.016	-4587762.097 0.019	4193183.241 0.017	m	0
XYZ		04106L	1395340.881 0.016	-4597182.114 0.020	4181096.850 0.034	m	0
XYZ		04106M	1370085.039 0.017	-4605475.964 0.021	4180406.104 0.019	m	0
XYZ		04106N	1373716.241 0.016	-4612392.629 0.020	4171548.707 0.019	m	0
XYZ		04106O	1362815.979 0.011	-4620258.980 0.014	4166465.692 0.014	m	0
XYZ		04106P	1353689.606 0.012	-4619667.709 0.017	4170207.674 0.016	m	0
XYZ		04106W	1413120.315 0.008	-4588404.545 0.010	4184722.882 0.009	m	0
XYZ		04106X	1368599.537 0.009	-4610265.299 0.013	4175653.419 0.012	m	0
XYZ		04106Y	1438979.412 0.008	-4579857.201 0.010	4185273.566 0.009	m	0
XYZ		04106Z	1466701.907 0.011	-4561423.958 0.012	4195768.458 0.012	m	0
XYZ		AI5582	1412610.495 0.000	-4588468.622 0.000	4184821.011 0.000	m	0
XYZ		LX0452	1435720.523 0.000	-4581200.114 0.000	4184919.628 0.000	m	0
XYZ		LX0815	1381033.144 0.016	-4609290.276 0.019	4172563.796 0.018	m	0
XYZ		RVDI	1361703.780 0.003	-4621078.726 0.010	4165941.323 0.009	m	0

Geoid Values:

CODE	STATION	N/S DEFLECTION		E/W DEFLECTION		UNDULATION

GEOI	04106A	- 0 0	2.80	0 0	1.31	-30.196 m
GEOI	04106B	- 0 0	2.00	0 0	0.17	-30.453 m
GEOI	04106C	- 0 0	3.09 -	0 0	0.54	-30.603 m
GEOI	04106D	- 0 0	2.66	0 0	2.83	-30.194 m
GEOI	04106E	- 0 0	4.65	0 0	2.46	-30.481 m
GEOI	04106F	- 0 0	4.02	0 0	3.82	-29.965 m
GEOI	04106G	- 0 0	5.25	0 0	3.12	-30.262 m
GEOI	04106H	- 0 0	5.16	0 0	2.40	-29.848 m
GEOI	04106I	- 0 0	4.03	0 0	3.95	-29.431 m
GEOI	04106J	- 0 0	5.37	0 0	4.69	-29.664 m
GEOI	04106K	- 0 0	2.87 -	0 0	1.23	-29.452 m
GEOI	04106L	- 0 0	5.04	0 0	0.86	-29.772 m
GEOI	04106M	- 0 0	3.12 -	0 0	2.86	-29.861 m
GEOI	04106N	- 0 0	4.94 -	0 0	2.16	-30.061 m
GEOI	04106O	- 0 0	4.52 -	0 0	3.55	-30.430 m
GEOI	04106P	- 0 0	3.48 -	0 0	4.66	-30.486 m
GEOI	04106W	- 0 0	5.43	0 0	2.80	-29.912 m
GEOI	04106X	- 0 0	3.61 -	0 0	3.23	-30.007 m
GEOI	04106Y	- 0 0	5.52	0 0	2.99	-30.275 m
GEOI	04106Z	- 0 0	3.22	0 0	2.39	-30.414 m
GEOI	AI5582	- 0 0	5.39	0 0	2.89	-29.902 m
GEOI	LX0452	- 0 0	5.72	0 0	2.81	-30.238 m
GEOI	LX0815	- 0 0	5.05 -	0 0	0.44	-29.978 m
GEOI	RVDI	- 0 0	4.54 -	0 0	3.45	-30.469 m

Residuals (critical value = 3.242, N,E,Up for 3D):

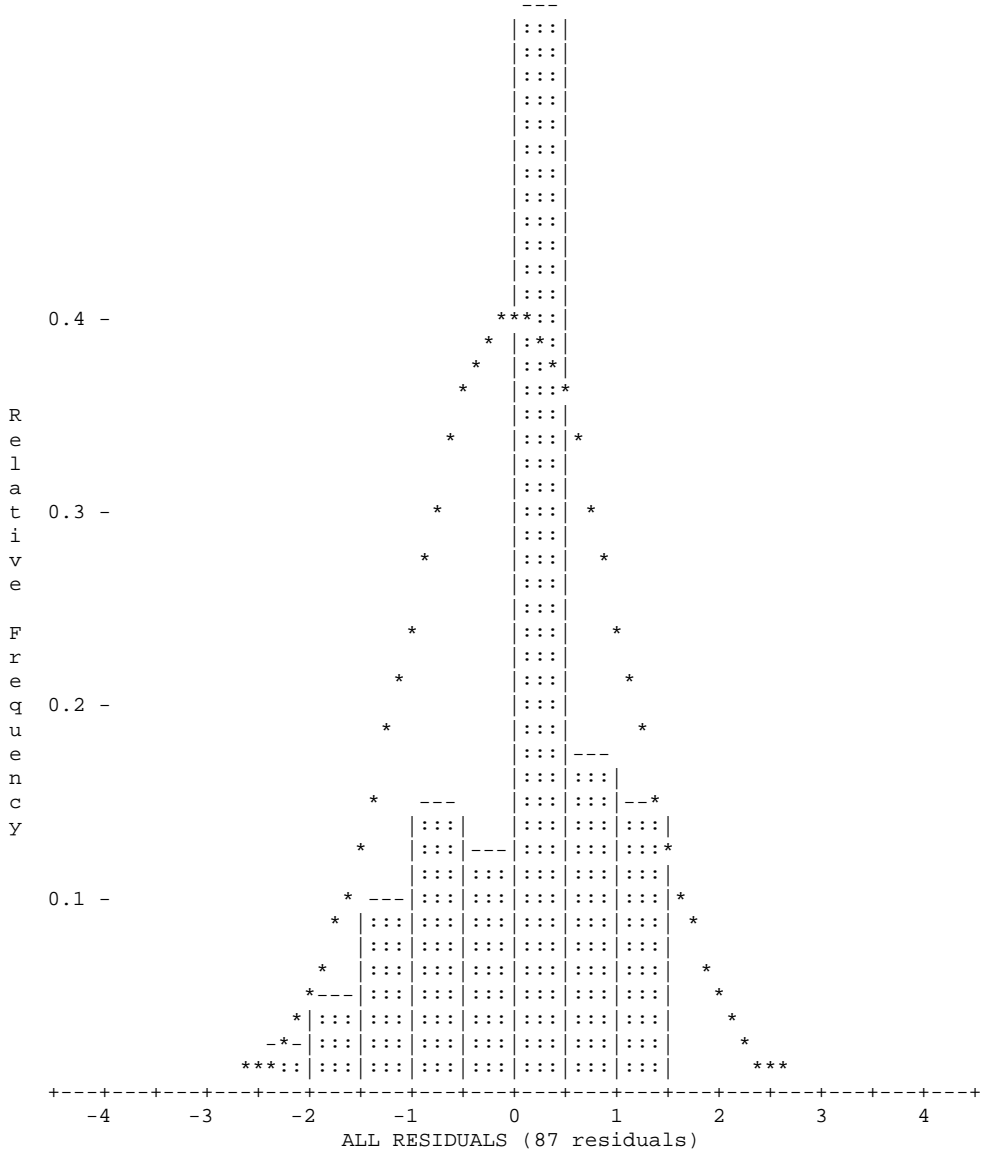
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
GROUP: ID:52 RMS:0.014 Ratio:11.84 Variance:1.10 Duration:17 m Day					
DXCT	04106Z	04106B	11844.44390	-0.000	-0.000
			0.015	0.000	0.00*
DYCT	04106Z	04106B	6989.50580	-0.000	-0.000
			0.015	0.000	0.00*
DZCT	04106Z	04106B	3471.17090	0.000	0.000
			0.005	0.000	0.00*
GROUP: ID:53 RMS:0.014 Ratio:18.13 Variance:1.80 Duration:13 m Day					
DXCT	04106Z	04106C	26671.55360	-0.000	-0.000
			0.018	0.000	0.00*
DYCT	04106Z	04106C	5387.38060	-0.000	-0.000
			0.017	0.000	0.00*
DZCT	04106Z	04106C	-3583.46280	-0.000	-0.000
			0.003	0.000	0.00*
GROUP: ID:54 RMS:0.013 Ratio:20.27 Variance:1.60 Duration:15 m Day					
DXCT	04106Z	04106D	-9843.12380	-0.000	-0.000
			0.017	0.000	0.00*
DYCT	04106Z	04106D	1862.61790	-0.000	-0.000
			0.016	0.000	0.00*
DZCT	04106Z	04106D	5439.84020	-0.000	-0.000
			0.007	0.000	0.00*
GROUP: ID:56 RMS:0.015 Ratio:11.29 Variance:1.70 Duration:38 m Day					
DXCT	04106Z	04106E	-6657.89010	0.001	0.065
			0.015	0.010	0.05
DYCT	04106Z	04106E	-8432.33450	0.008	0.831
			0.015	0.009	0.59
DZCT	04106Z	04106E	-6820.49240	-0.010	-2.275
			0.007	0.004	0.79
GROUP: ID:57 RMS:0.014 Ratio:9.90 Variance:1.70 Duration:30 m Day:					
DXCT	04106Z	04106A	5079.91740	-0.000	-0.000
			0.016	0.000	0.00*
DYCT	04106Z	04106A	15918.30580	-0.000	-0.000
			0.015	0.000	0.00*
DZCT	04106Z	04106A	15385.55680	0.000	0.000
			0.007	0.000	0.00*
GROUP: ID:58 RMS:0.005 Ratio:16.47 Variance:2.40 Duration:29 m Day					
DXCT	04106Y	LX0452	-3258.86510	0.003	0.321
			0.014	0.010	0.87
DYCT	04106Y	LX0452	-1342.90400	-0.025	-2.359
			0.014	0.011	7.15
DZCT	04106Y	LX0452	-353.94260	0.004	0.867
			0.005	0.005	1.15
GROUP: ID:59 RMS:0.005 Ratio:24.33 Variance:2.50 Duration:18 m Day					
DXCT	04106Y	04106G	1891.71590	0.000	0.000
			0.014	0.000	0.00*
DYCT	04106Y	04106G	1875.72630	-0.000	-0.000
			0.015	0.000	0.00*
DZCT	04106Y	04106G	1398.06240	-0.000	-0.000

Residuals (critical value = 3.242, N,E,Up for 3D):

NOTE: Observation values shown are reduced to mark-to-mark.

TYPE AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
DZCT	04106W	04106L	-3626.03160 0.023	-0.000 0.000	-0.000 0.00*
GROUP: ID:92 RMS:0.018 Ratio:83.56 Variance:2.20 Duration:24 m Day					
DXCT	04106X	04106N	5116.70390 0.016	-0.000 0.000	-0.000 0.00*
DYCT	04106X	04106N	-2127.33030 0.016	-0.000 0.000	-0.000 0.00*
DZCT	04106X	04106N	-4104.71130 0.003	0.000 0.000	0.000 0.00*
GROUP: ID:94 RMS:0.018 Ratio:5.77 Variance:2.30 Duration:31 m Day:					
DXCT	04106X	LX0815	12433.60740 0.015	0.000 0.000	0.000 0.00*
DYCT	04106X	LX0815	975.02310 0.015	0.000 0.000	0.000 0.00*
DZCT	04106X	LX0815	-3089.62270 0.005	-0.000 0.000	-0.000 0.00*



S T A T I S T I C S S U M M A R Y

Residual Critical Value Type	Tau Max
Residual Critical Value	3.2424
Number of Flagged Residuals	5
Convergence Criterion	0.0010
Final Iteration Counter Value	2
Confidence Level Used	95.0000
Estimated Variance Factor	3.3056
Number of Degrees of Freedom	23

Chi-Square Test on the Variance Factor:

1.9968e+00 < 1.0000 < 6.5046e+00 ?

***** THE TEST FAILS *****

NOTE: All confidence regions were computed using the following factors:

Variance factor used = 3.3056
1-D expansion factor = 1.9600
2-D expansion factor = 2.4477

Note that, for relative confidence regions, precisions are computed from the ratio of the major semi-axis and the spatial distance between the two stations.

2-D and 1-D Station Confidence Regions (95.000 and 95.000 percent):

STATION	MAJOR SEMI-AXIS	AZ	MINOR SEMI-AXIS	VERTICAL
04106A	0.042	131	0.040	0.041
04106B	0.041	98	0.040	0.040
04106C	0.042	92	0.041	0.047
04106D	0.042	120	0.040	0.044
04106E	0.030	112	0.029	0.031
04106F	0.039	77	0.038	0.041
04106G	0.037	100	0.037	0.034
04106H	0.038	118	0.037	0.038
04106I	0.038	170	0.038	0.040
04106J	0.028	7	0.027	0.030
04106K	0.038	160	0.037	0.040
04106L	0.056	7	0.037	0.064
04106M	0.039	177	0.039	0.047
04106N	0.039	46	0.038	0.044
04106O	0.026	22	0.025	0.034
04106P	0.028	148	0.026	0.041
04106W	0.019	67	0.018	0.022
04106X	0.021	58	0.020	0.032
04106Y	0.020	101	0.018	0.022
04106Z	0.026	103	0.023	0.029
LX0815	0.039	36	0.038	0.043
RVDI	0.000	0	0.000	0.027