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AEROoffice V5.1f 2010-01-07  
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Dongle-ID: AO-0365  
Owner: SPASA, Spain

Boresight Misalignment Calculations  
07/08/2017 17:21:18

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Project: 170701SVY1  
Projectfile: C:\AEROofficeV51\PROYECTOS\03-PROYECTOS\_EAGLE\17\_0044\_PNOA\_CyL-OESTE\PROCESO\170701SVY1\170701SVY1.aop

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Used input data:

Platform Solution: C:\AEROofficeV51\PROYECTOS\03-PROYECTOS\_EAGLE\17\_0044\_PNOA\_CyL-OESTE\PROCESO\170701SVY1\work\170701SVY1.aps  
Event Mark File : C:\AEROofficeV51\PROYECTOS\03-PROYECTOS\_EAGLE\17\_0044\_PNOA\_CyL-OESTE\PROCESO\170701SVY1\work\170701SVY1.gps2-C.aom  
AT Result File : C:\AEROofficeV51\PROYECTOS\03-PROYECTOS\_EAGLE\17\_0044\_PNOA\_CyL-OESTE\POLCAL\SVY\XYZOPK\_SVY.TXT  
Importformat File: C:\AEROofficeV51\FORMATOS\PTOFORMAT

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Coordinate system scalefactor correction for height applied  
Used Height above ground: 6400.00 meter

Local Coordinate System:  
UTM - WGS84 SPH - ellispoidal Altitude  
Selected Zone: 29N  
Meridian Convergence corrected

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Loading INS Data  
778 usable events found

Loading AT Data  
AT input: angles found  
60 AT Data Sets imported

60 events with matching eventnumbers found.

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Postion offset for the single events [m]:

	number	time	east	north	alt	d east	d north	d alt
position:	64437	557455.85	-0.013	0.001	-0.350	-0.013	0.001	-0.173
position:	64438	557469.06	-0.039	0.044	-0.233	-0.039	0.044	-0.056
position:	64439	557482.30	-0.016	0.047	-0.211	-0.016	0.047	-0.034
position:	64440	557495.61	0.014	0.055	-0.037	0.014	0.055	0.140
position:	64441	557508.94	-0.008	0.094	-0.100	-0.008	0.094	0.077
position:	64442	557522.28	0.019	0.056	-0.149	0.019	0.056	0.028
position:	64443	557535.64	0.008	0.040	-0.173	0.008	0.040	0.004
position:	64444	557549.02	-0.018	0.067	-0.107	-0.018	0.067	0.069
position:	64445	557562.39	0.013	0.060	-0.112	0.013	0.060	0.065
position:	64446	557575.75	0.003	0.058	-0.115	0.003	0.058	0.061
position:	64447	557589.15	0.004	0.006	0.007	0.004	0.006	0.184
position:	64448	557602.55	0.020	0.039	-0.169	0.020	0.039	0.008
position:	64449	557615.98	-0.022	0.049	-0.080	-0.022	0.049	0.097
position:	64450	557629.48	0.001	0.011	-0.017	0.001	0.011	0.160
position:	64451	557642.96	0.010	0.031	-0.062	0.010	0.031	0.115
position:	64460	558034.84	0.067	-0.015	-0.202	0.067	-0.015	-0.026
position:	64461	558048.18	0.052	0.026	-0.246	0.052	0.026	-0.069
position:	64462	558061.51	0.169	0.036	-0.164	0.169	0.036	0.013
position:	64463	558074.84	0.171	-0.085	-0.189	0.171	-0.084	-0.012
position:	64464	558088.20	0.132	0.103	-0.040	0.132	0.103	0.137
position:	64465	558101.64	0.094	-0.010	-0.143	0.094	-0.010	0.034
position:	64466	558115.13	0.096	-0.131	-0.204	0.096	-0.131	-0.027
position:	64467	558128.62	0.022	0.014	-0.320	0.022	0.014	-0.143
position:	64468	558142.11	0.068	0.036	-0.165	0.068	0.036	0.012
position:	64469	558155.63	0.030	0.018	-0.201	0.030	0.018	-0.024
position:	64470	558169.06	0.009	0.051	-0.300	0.009	0.051	-0.123
position:	64471	558182.36	-0.010	0.019	-0.209	-0.010	0.019	-0.032
position:	64472	558195.55	-0.006	0.018	-0.320	-0.006	0.018	-0.143
position:	64473	558208.73	-0.030	0.007	-0.416	-0.030	0.007	-0.239
position:	64474	558221.94	0.000	0.009	-0.346	0.000	0.009	-0.169
position:	64546	559420.81	-0.069	-0.035	-0.561	-0.069	-0.035	-0.384
position:	64547	559433.90	-0.056	-0.032	-0.297	-0.056	-0.031	-0.120
position:	64548	559446.97	-0.095	-0.045	-0.463	-0.095	-0.045	-0.286
position:	64549	559460.05	-0.119	-0.004	-0.231	-0.119	-0.004	-0.054
position:	64550	559473.21	-0.138	-0.018	-0.278	-0.138	-0.017	-0.101
position:	64551	559486.61	-0.092	-0.061	-0.173	-0.092	-0.061	0.004
position:	64552	559500.02	-0.051	-0.072	-0.311	-0.051	-0.072	-0.134
position:	64553	559513.50	-0.042	-0.033	-0.201	-0.042	-0.033	-0.024
position:	64554	559526.86	-0.181	-0.044	-0.111	-0.181	-0.044	0.066
position:	64555	559540.20	-0.102	-0.071	-0.146	-0.103	-0.071	0.031
position:	64556	559553.54	-0.173	-0.056	0.016	-0.173	-0.056	0.193
position:	64557	559566.88	-0.092	-0.070	-0.092	-0.093	-0.070	0.085
position:	64558	559580.26	-0.087	-0.041	-0.125	-0.087	-0.041	0.052
position:	64559	559593.64	-0.006	-0.017	0.025	-0.006	-0.017	0.202
position:	64560	559606.94	0.007	-0.022	-0.110	0.007	-0.022	0.067
position:	64569	559980.95	0.016	-0.004	-0.053	0.016	-0.004	0.124
position:	64570	559994.25	0.011	-0.017	-0.055	0.011	-0.017	0.122
position:	64571	560007.57	0.057	-0.022	-0.016	0.057	-0.022	0.161
position:	64572	560020.87	0.029	-0.019	-0.122	0.029	-0.019	0.055
position:	64573	560034.11	0.060	-0.038	-0.055	0.060	-0.038	0.122
position:	64574	560047.39	0.042	0.006	-0.055	0.042	0.006	0.122
position:	64575	560060.72	0.085	0.010	-0.189	0.085	0.010	-0.012
position:	64576	560074.08	-0.007	-0.023	-0.165	-0.007	-0.023	0.012
position:	64577	560087.43	0.040	0.015	-0.123	0.039	0.015	0.054
position:	64578	560100.77	0.007	0.028	-0.065	0.006	0.028	0.112
position:	64579	560114.09	0.012	-0.082	-0.436	0.012	-0.082	-0.259
position:	64580	560127.40	0.054	0.045	-0.177	0.054	0.045	0.000
position:	64581	560140.75	0.036	0.015	-0.093	0.036	0.015	0.084
position:	64582	560154.13	0.006	-0.048	-0.313	0.006	-0.048	-0.136
position:	64583	560167.45	0.012	0.000	-0.267	0.012	0.000	-0.090

Average position offset:

East: 0.000 m  
 North: 0.000 m  
 Alt: -0.177 m  
 Position offset RMS:  
 East: 0.069 m  
 North: 0.046 m  
 Alt: 0.123 m

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Misalignment angles for the single events [deg]:

	number	time	roll	pitch	yaw	d roll	d pitch	d yaw
angle:	64437	557455.85	-0.0880	0.0839	-0.3503	-0.0041	0.0003	-0.0005
angle:	64438	557469.06	-0.0874	0.0838	-0.3494	-0.0036	0.0003	0.0004
angle:	64439	557482.30	-0.0887	0.0824	-0.3497	-0.0049	-0.0012	0.0001
angle:	64440	557495.61	-0.0872	0.0812	-0.3484	-0.0033	-0.0023	0.0014
angle:	64441	557508.94	-0.0885	0.0809	-0.3488	-0.0046	-0.0027	0.0010
angle:	64442	557522.28	-0.0896	0.0816	-0.3497	-0.0058	-0.0019	0.0000
angle:	64443	557535.64	-0.0887	0.0808	-0.3500	-0.0049	-0.0028	-0.0003
angle:	64444	557549.02	-0.0896	0.0800	-0.3481	-0.0057	-0.0035	0.0017
angle:	64445	557562.39	-0.0893	0.0806	-0.3481	-0.0055	-0.0029	0.0017
angle:	64446	557575.75	-0.0874	0.0812	-0.3504	-0.0035	-0.0023	-0.0007
angle:	64447	557589.15	-0.0882	0.0805	-0.3501	-0.0044	-0.0030	-0.0003
angle:	64448	557602.55	-0.0879	0.0800	-0.3491	-0.0040	-0.0035	0.0006
angle:	64449	557615.98	-0.0887	0.0789	-0.3467	-0.0048	-0.0046	0.0031
angle:	64450	557629.48	-0.0875	0.0793	-0.3489	-0.0036	-0.0042	0.0008
angle:	64451	557642.96	-0.0879	0.0815	-0.3524	-0.0041	-0.0020	-0.0026
angle:	64460	558034.84	-0.0866	0.0872	-0.3480	-0.0027	0.0036	0.0018
angle:	64461	558048.18	-0.0880	0.0877	-0.3446	-0.0041	0.0042	0.0052
angle:	64462	558061.51	-0.0866	0.0860	-0.3448	-0.0028	0.0025	0.0050
angle:	64463	558074.84	-0.0850	0.0869	-0.3441	-0.0011	0.0034	0.0057
angle:	64464	558088.20	-0.0872	0.0859	-0.3449	-0.0034	0.0024	0.0049
angle:	64465	558101.64	-0.0855	0.0848	-0.3426	-0.0016	0.0013	0.0072
angle:	64466	558115.13	-0.0825	0.0848	-0.3424	0.0014	0.0012	0.0073
angle:	64467	558128.62	-0.0845	0.0852	-0.3427	-0.0007	0.0017	0.0071
angle:	64468	558142.11	-0.0846	0.0843	-0.3421	-0.0007	0.0008	0.0077
angle:	64469	558155.63	-0.0847	0.0844	-0.3423	-0.0008	0.0009	0.0075
angle:	64470	558169.06	-0.0856	0.0839	-0.3421	-0.0017	0.0004	0.0076
angle:	64471	558182.36	-0.0831	0.0846	-0.3428	0.0007	0.0011	0.0070
angle:	64472	558195.55	-0.0841	0.0836	-0.3428	-0.0003	0.0001	0.0070
angle:	64473	558208.73	-0.0834	0.0824	-0.3437	0.0004	-0.0011	0.0061
angle:	64474	558221.94	-0.0817	0.0819	-0.3444	0.0022	-0.0016	0.0054
angle:	64546	559420.81	-0.0815	0.0875	-0.3558	0.0024	0.0040	-0.0060
angle:	64547	559433.90	-0.0802	0.0861	-0.3549	0.0037	0.0026	-0.0051
angle:	64548	559446.97	-0.0800	0.0858	-0.3540	0.0039	0.0023	-0.0042
angle:	64549	559460.05	-0.0792	0.0851	-0.3548	0.0046	0.0016	-0.0050
angle:	64550	559473.21	-0.0791	0.0840	-0.3544	0.0048	0.0005	-0.0046
angle:	64551	559486.61	-0.0797	0.0856	-0.3559	0.0041	0.0021	-0.0061
angle:	64552	559500.02	-0.0784	0.0848	-0.3562	0.0054	0.0013	-0.0064
angle:	64553	559513.50	-0.0792	0.0844	-0.3542	0.0047	0.0008	-0.0044
angle:	64554	559526.86	-0.0781	0.0845	-0.3548	0.0058	0.0010	-0.0050
angle:	64555	559540.20	-0.0780	0.0848	-0.3545	0.0059	0.0013	-0.0047
angle:	64556	559553.54	-0.0786	0.0832	-0.3566	0.0053	-0.0003	-0.0069
angle:	64557	559566.88	-0.0780	0.0838	-0.3576	0.0059	0.0003	-0.0078
angle:	64558	559580.26	-0.0784	0.0831	-0.3583	0.0054	-0.0004	-0.0086
angle:	64559	559593.64	-0.0773	0.0824	-0.3573	0.0066	-0.0011	-0.0075
angle:	64560	559606.94	-0.0781	0.0829	-0.3593	0.0057	-0.0006	-0.0095
angle:	64569	559980.95	-0.0839	0.0854	-0.3484	0.0000	0.0018	0.0014
angle:	64570	559994.25	-0.0841	0.0859	-0.3476	-0.0003	0.0024	0.0022
angle:	64571	560007.57	-0.0830	0.0845	-0.3500	0.0009	0.0010	-0.0002
angle:	64572	560020.87	-0.0826	0.0848	-0.3504	0.0013	0.0013	-0.0007
angle:	64573	560034.11	-0.0822	0.0835	-0.3503	0.0016	0.0000	-0.0005
angle:	64574	560047.39	-0.0838	0.0826	-0.3497	0.0001	-0.0009	0.0001
angle:	64575	560060.72	-0.0845	0.0821	-0.3481	-0.0006	-0.0014	0.0017
angle:	64576	560074.08	-0.0837	0.0831	-0.3483	0.0001	-0.0004	0.0014
angle:	64577	560087.43	-0.0831	0.0824	-0.3499	0.0008	-0.0012	-0.0001
angle:	64578	560100.77	-0.0835	0.0829	-0.3508	0.0004	-0.0007	-0.0011
angle:	64579	560114.09	-0.0828	0.0832	-0.3513	0.0010	-0.0003	-0.0015
angle:	64580	560127.40	-0.0841	0.0831	-0.3507	-0.0003	-0.0004	-0.0009
angle:	64581	560140.75	-0.0835	0.0826	-0.3517	0.0004	-0.0009	-0.0019
angle:	64582	560154.13	-0.0819	0.0829	-0.3535	0.0020	-0.0006	-0.0037
angle:	64583	560167.45	-0.0835	0.0837	-0.3534	0.0004	0.0001	-0.0036

Average Boresight Angles:

Roll: -0.0839 deg  
 Pitch: 0.0835 deg  
 Yaw: -0.3498 deg

Boresight Angle RMS:

Roll: 0.0036 deg  
 Pitch: 0.0020 deg  
 Yaw: 0.0046 deg

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Success!!  
 Boresight Calculation finished