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

Boresight Misalignment Calculations  
08/08/2017 15:00:29

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Project: 170701SVZ1  
Projectfile: C:\AEROofficeV51\PROYECTOS\03-PROYECTOS\_EAGLE\17\_0044\_PNOA\_CyL-OESTE\PROCESO\170701SVZ1\170701SVZ1.aop

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Used input data:

Platform Solution: C:\AEROofficeV51\PROYECTOS\03-PROYECTOS\_EAGLE\17\_0044\_PNOA\_CyL-OESTE\PROCESO\170701SVZ1\work\170701SVZ1.aps  
Event Mark File : C:\AEROofficeV51\PROYECTOS\03-PROYECTOS\_EAGLE\17\_0044\_PNOA\_CyL-OESTE\PROCESO\170701SVZ1\work\170701SVZ1\_C.aom  
AT Result File : C:\AEROofficeV51\PROYECTOS\03-PROYECTOS\_EAGLE\17\_0044\_PNOA\_CyL-OESTE\POLCAL\SVZ\XYZOPK\_SVZ.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  
478 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:	28472	559142.31	-0.027	-0.064	-0.107	0.006	-0.016	-0.130
position:	28473	559153.78	-0.016	-0.085	-0.094	0.017	-0.036	-0.117
position:	28474	559165.36	0.009	-0.098	-0.040	0.042	-0.049	-0.063
position:	28475	559176.87	0.001	-0.048	-0.108	0.034	0.000	-0.131
position:	28476	559188.39	0.002	-0.062	-0.047	0.034	-0.013	-0.070
position:	28477	559199.83	0.004	-0.100	0.026	0.037	-0.051	0.003
position:	28478	559211.25	0.010	-0.088	-0.083	0.042	-0.040	-0.106
position:	28479	559222.73	-0.005	-0.071	0.016	0.028	-0.023	-0.007
position:	28480	559234.25	-0.026	-0.071	0.011	0.007	-0.023	-0.012
position:	28481	559245.75	-0.014	-0.054	0.113	0.018	-0.005	0.090
position:	28482	559257.22	-0.003	-0.054	0.119	0.030	-0.006	0.096
position:	28483	559268.62	0.005	-0.074	0.080	0.038	-0.025	0.057
position:	28484	559280.03	-0.024	-0.061	0.134	0.008	-0.013	0.111
position:	28485	559291.47	0.014	-0.029	0.158	0.047	0.020	0.135
position:	28486	559302.82	-0.017	-0.022	0.224	0.015	0.027	0.201
position:	28383	557812.40	-0.041	-0.051	0.140	-0.009	-0.003	0.117
position:	28384	557823.75	-0.066	0.004	0.167	-0.033	0.052	0.144
position:	28385	557835.16	-0.086	-0.057	0.183	-0.053	-0.008	0.160
position:	28386	557846.60	-0.074	-0.048	0.158	-0.041	0.000	0.135
position:	28387	557858.09	-0.087	-0.059	0.059	-0.054	-0.011	0.035
position:	28388	557869.61	-0.098	-0.053	-0.120	-0.066	-0.004	-0.143
position:	28389	557881.14	-0.051	-0.080	-0.010	-0.019	-0.032	-0.033
position:	28390	557892.63	-0.082	-0.044	0.068	-0.049	0.005	0.045
position:	28391	557904.07	-0.063	-0.040	-0.044	-0.030	0.009	-0.067
position:	28392	557915.45	-0.033	-0.087	-0.131	0.000	-0.038	-0.154
position:	28393	557926.83	-0.053	-0.080	0.001	-0.021	-0.031	-0.022
position:	28394	557938.18	0.021	-0.014	-0.095	0.054	0.034	-0.118
position:	28395	557949.51	-0.124	-0.108	-0.067	-0.091	-0.059	-0.090
position:	28396	557960.86	0.045	-0.037	0.023	0.077	0.012	0.000
position:	28397	557972.24	-0.054	-0.053	-0.187	-0.022	-0.005	-0.210
position:	28360	557221.27	-0.044	-0.027	-0.002	-0.011	0.022	-0.025
position:	28361	557232.62	0.040	-0.035	-0.053	0.073	0.013	-0.076
position:	28362	557243.97	-0.051	-0.053	-0.132	-0.019	-0.005	-0.155
position:	28363	557255.30	-0.077	-0.106	-0.071	-0.044	-0.057	-0.094
position:	28364	557266.65	-0.004	-0.088	-0.081	0.028	-0.040	-0.104
position:	28365	557278.02	-0.046	-0.009	-0.032	-0.013	0.039	-0.055
position:	28366	557289.36	-0.048	-0.063	0.093	-0.016	-0.014	0.069
position:	28367	557300.72	-0.049	-0.041	0.041	-0.016	0.008	0.018
position:	28368	557312.10	-0.007	-0.063	0.141	0.026	-0.015	0.118
position:	28369	557323.44	-0.028	-0.134	0.146	0.005	-0.086	0.123
position:	28370	557334.90	0.031	-0.052	0.018	0.063	-0.004	-0.005
position:	28371	557346.53	0.001	-0.042	0.064	0.033	0.007	0.041
position:	28372	557358.09	0.000	-0.061	0.109	0.033	-0.012	0.086
position:	28373	557369.55	-0.011	-0.083	0.025	0.022	-0.034	0.002
position:	28374	557381.00	-0.045	-0.048	0.132	-0.012	0.001	0.109
position:	28273	555962.68	-0.058	-0.039	0.169	-0.026	0.010	0.145
position:	28274	555974.23	-0.060	-0.033	0.133	-0.028	0.016	0.110
position:	28275	555985.80	-0.045	0.003	0.001	-0.013	0.051	-0.022
position:	28276	555997.35	-0.051	-0.018	0.177	-0.019	0.031	0.154
position:	28277	556008.89	-0.057	-0.016	0.128	-0.024	0.032	0.105
position:	28278	556020.35	-0.031	-0.020	0.036	0.001	0.028	0.013
position:	28279	556031.84	-0.068	-0.016	0.049	-0.035	0.032	0.026
position:	28280	556043.31	-0.034	-0.019	0.059	-0.002	0.029	0.036
position:	28281	556054.81	-0.030	-0.007	-0.035	0.002	0.042	-0.058
position:	28282	556066.34	-0.049	0.003	0.032	-0.017	0.052	0.009
position:	28283	556077.85	-0.040	-0.003	0.006	-0.007	0.046	-0.017
position:	28284	556089.40	-0.062	-0.045	-0.093	-0.029	0.003	-0.116
position:	28285	556100.94	0.005	0.031	-0.051	0.037	0.080	-0.074
position:	28286	556112.51	-0.056	-0.010	-0.144	-0.024	0.038	-0.167
position:	28287	556124.04	-0.047	-0.032	-0.031	-0.015	0.017	-0.054

Average position offset:

East: -0.033 m  
 North: -0.049 m  
 Alt: 0.023 m  
 Position offset RMS:  
 East: 0.035 m  
 North: 0.032 m  
 Alt: 0.099 m

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Misalignment angles for the single events [deg]:

	number	time	roll	pitch	yaw	d roll	d pitch	d yaw
angle:	28472	559142.31	-0.1309	0.0539	-0.3130	-0.0001	0.0001	0.0002
angle:	28473	559153.78	-0.1316	0.0537	-0.3142	-0.0008	-0.0002	-0.0010
angle:	28474	559165.36	-0.1324	0.0534	-0.3137	-0.0016	-0.0005	-0.0005
angle:	28475	559176.87	-0.1329	0.0529	-0.3133	-0.0021	-0.0010	-0.0001
angle:	28476	559188.39	-0.1321	0.0531	-0.3144	-0.0012	-0.0008	-0.0012
angle:	28477	559199.83	-0.1320	0.0529	-0.3151	-0.0011	-0.0010	-0.0019
angle:	28478	559211.25	-0.1314	0.0543	-0.3172	-0.0006	0.0005	-0.0040
angle:	28479	559222.73	-0.1311	0.0546	-0.3170	-0.0002	0.0007	-0.0038
angle:	28480	559234.25	-0.1336	0.0542	-0.3159	-0.0028	0.0004	-0.0027
angle:	28481	559245.75	-0.1343	0.0541	-0.3162	-0.0035	0.0002	-0.0030
angle:	28482	559257.22	-0.1334	0.0550	-0.3161	-0.0026	0.0011	-0.0029
angle:	28483	559268.62	-0.1327	0.0546	-0.3161	-0.0019	0.0007	-0.0029
angle:	28484	559280.03	-0.1333	0.0535	-0.3159	-0.0025	-0.0003	-0.0027
angle:	28485	559291.47	-0.1357	0.0542	-0.3161	-0.0048	0.0003	-0.0029
angle:	28486	559302.82	-0.1361	0.0540	-0.3139	-0.0052	0.0002	-0.0007
angle:	28383	557812.40	-0.1305	0.0521	-0.3137	0.0004	-0.0018	-0.0005
angle:	28384	557823.75	-0.1300	0.0534	-0.3135	0.0009	-0.0005	-0.0003
angle:	28385	557835.16	-0.1315	0.0542	-0.3131	-0.0007	0.0003	0.0001
angle:	28386	557846.60	-0.1316	0.0531	-0.3138	-0.0008	-0.0007	-0.0006
angle:	28387	557858.09	-0.1314	0.0541	-0.3147	-0.0005	0.0002	-0.0015
angle:	28388	557869.61	-0.1313	0.0548	-0.3154	-0.0005	0.0009	-0.0022
angle:	28389	557881.14	-0.1317	0.0533	-0.3147	-0.0008	-0.0006	-0.0015
angle:	28390	557892.63	-0.1320	0.0537	-0.3150	-0.0012	-0.0002	-0.0018
angle:	28391	557904.07	-0.1320	0.0547	-0.3142	-0.0012	0.0008	-0.0010
angle:	28392	557915.45	-0.1324	0.0533	-0.3135	-0.0016	-0.0005	-0.0003
angle:	28393	557926.83	-0.1339	0.0543	-0.3144	-0.0030	0.0004	-0.0012
angle:	28394	557938.18	-0.1333	0.0538	-0.3150	-0.0025	-0.0001	-0.0018
angle:	28395	557949.51	-0.1323	0.0552	-0.3149	-0.0015	0.0013	-0.0017
angle:	28396	557960.86	-0.1326	0.0540	-0.3141	-0.0017	0.0002	-0.0009
angle:	28397	557972.24	-0.1328	0.0535	-0.3144	-0.0019	-0.0004	-0.0012
angle:	28360	557221.27	-0.1301	0.0540	-0.3097	0.0007	0.0001	0.0035
angle:	28361	557232.62	-0.1310	0.0542	-0.3085	-0.0002	0.0003	0.0047
angle:	28362	557243.97	-0.1300	0.0531	-0.3082	0.0008	-0.0008	0.0050
angle:	28363	557255.30	-0.1305	0.0531	-0.3070	0.0004	-0.0008	0.0061
angle:	28364	557266.65	-0.1310	0.0531	-0.3078	-0.0002	-0.0007	0.0054
angle:	28365	557278.02	-0.1309	0.0528	-0.3088	-0.0001	-0.0011	0.0044
angle:	28366	557289.36	-0.1304	0.0523	-0.3077	0.0004	-0.0016	0.0055
angle:	28367	557300.72	-0.1299	0.0533	-0.3087	0.0009	-0.0006	0.0045
angle:	28368	557312.10	-0.1298	0.0533	-0.3093	0.0010	-0.0005	0.0038
angle:	28369	557323.44	-0.1302	0.0528	-0.3093	0.0007	-0.0011	0.0039
angle:	28370	557334.90	-0.1296	0.0536	-0.3094	0.0012	-0.0002	0.0038
angle:	28371	557346.53	-0.1289	0.0528	-0.3092	0.0020	-0.0011	0.0040
angle:	28372	557358.09	-0.1301	0.0539	-0.3099	0.0008	0.0001	0.0033
angle:	28373	557369.55	-0.1317	0.0553	-0.3108	-0.0008	0.0014	0.0024
angle:	28374	557381.00	-0.1312	0.0554	-0.3102	-0.0004	0.0015	0.0030
angle:	28273	555962.68	-0.1306	0.0537	-0.3174	0.0002	-0.0001	-0.0042
angle:	28274	555974.23	-0.1295	0.0538	-0.3166	0.0013	0.0000	-0.0035
angle:	28275	555985.80	-0.1294	0.0536	-0.3155	0.0014	-0.0003	-0.0023
angle:	28276	555997.35	-0.1287	0.0538	-0.3157	0.0021	-0.0001	-0.0025
angle:	28277	556008.89	-0.1286	0.0540	-0.3149	0.0022	0.0001	-0.0017
angle:	28278	556020.35	-0.1284	0.0541	-0.3151	0.0024	0.0003	-0.0020
angle:	28279	556031.84	-0.1280	0.0551	-0.3151	0.0029	0.0012	-0.0019
angle:	28280	556043.31	-0.1272	0.0544	-0.3131	0.0036	0.0005	0.0001
angle:	28281	556054.81	-0.1277	0.0545	-0.3128	0.0031	0.0006	0.0004
angle:	28282	556066.34	-0.1275	0.0548	-0.3132	0.0033	0.0009	0.0000
angle:	28283	556077.85	-0.1275	0.0543	-0.3145	0.0033	0.0005	-0.0013
angle:	28284	556089.40	-0.1264	0.0555	-0.3142	0.0044	0.0017	-0.0010
angle:	28285	556100.94	-0.1275	0.0540	-0.3131	0.0033	0.0001	0.0001
angle:	28286	556112.51	-0.1272	0.0543	-0.3117	0.0037	0.0005	0.0015
angle:	28287	556124.04	-0.1271	0.0536	-0.3115	0.0037	-0.0003	0.0017

Average Boresight Angles:

Roll: -0.1308 deg  
 Pitch: 0.0539 deg  
 Yaw: -0.3132 deg

Boresight Angle RMS:

Roll: 0.0021 deg  
 Pitch: 0.0007 deg  
 Yaw: 0.0027 deg

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Success!!  
 Boresight Calculation finished