
AEROoffice V5.6.0 2018-03-06
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Dongle-ID: 3-3541217

Boresight Misalignment Calculations
30/07/2020 21:45:53

Project: POL-CAL_PNOA
Projectfile: C:\AEROofficeV51\PROYECTOS\03-PROYECTOS_EAGLE100\

Used input data:

Platform Solution: C:\AEROofficeV51\PROYECTOS\03-PROYECTOS_EAGLE100\Pol-Cal.aps
Event Mark File : C:\AEROofficeV51\PROYECTOS\03-PROYECTOS_EAGLE100\Pol-Cal.aom
AT Result File : C:\AEROofficeV51\PROYECTOS\03-PROYECTOS_EAGLE100\EO_xyzopk.txt
Importformat File: C:\AEROofficeV51\FORMATOS\PTOFORMAT

Coordinate system scalefactor correction for height applied
Using DTM

Local Coordinate System:
UTM - WGS84 SPH - ellipsoidal Altitude
System defined in: built-in coordinate system
Selected Zone: 29N
Meridian Convergence corrected

Loading INS Data
968 usable events found

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

87 events with matching eventnumbers found.

Postion offset for the single events [m]:

	number	time	east	north	alt	d east	d north	d alt
position:	83118	382447.77	-0.014	-0.039	-0.065	-0.014	-0.039	-0.065
position:	83119	382454.65	-0.031	-0.008	-0.028	-0.031	-0.008	-0.028
position:	83120	382461.61	-0.035	-0.013	-0.016	-0.035	-0.013	-0.016
position:	83121	382468.59	-0.073	-0.043	-0.059	-0.073	-0.043	-0.059
position:	83122	382475.63	-0.046	-0.030	0.021	-0.046	-0.030	0.021
position:	83123	382482.75	-0.043	0.004	0.008	-0.043	0.004	0.008
position:	83124	382489.86	-0.052	-0.009	0.009	-0.052	-0.009	0.009
position:	83125	382497.06	-0.075	-0.034	0.007	-0.075	-0.034	0.007
position:	83126	382504.31	-0.037	-0.022	0.046	-0.037	-0.022	0.046
position:	83127	382511.60	-0.061	0.017	0.004	-0.061	0.017	0.004
position:	83128	382518.87	-0.073	0.001	-0.034	-0.073	0.001	-0.034
position:	83129	382526.17	-0.066	-0.002	0.062	-0.066	-0.002	0.062
position:	83130	382533.46	-0.042	-0.001	0.048	-0.042	-0.001	0.048
position:	83131	382540.72	-0.026	0.020	0.078	-0.026	0.020	0.078
position:	83065	381823.94	0.024	0.017	-0.072	0.025	0.017	-0.072
position:	83066	381830.82	0.057	0.024	-0.085	0.057	0.024	-0.085
position:	83067	381837.71	0.082	0.068	0.038	0.082	0.068	0.038
position:	83068	381844.63	0.115	0.072	0.055	0.115	0.072	0.055
position:	83069	381851.58	0.090	0.048	0.037	0.090	0.048	0.037
position:	83070	381858.53	0.102	0.019	-0.022	0.102	0.019	-0.022
position:	83071	381865.43	0.053	0.018	0.031	0.053	0.018	0.031
position:	83072	381872.32	0.102	0.059	0.024	0.102	0.059	0.025
position:	83073	381879.17	0.070	0.001	-0.017	0.070	0.001	-0.017
position:	83074	381886.02	0.096	0.024	-0.038	0.096	0.024	-0.038
position:	83075	381892.70	0.061	0.022	-0.005	0.061	0.022	-0.005
position:	83076	381899.34	0.091	0.010	0.024	0.091	0.010	0.024
position:	83077	381905.91	0.058	0.030	0.014	0.058	0.030	0.014
position:	83078	381912.44	0.055	0.006	-0.051	0.055	0.006	-0.051
position:	83079	381918.76	0.022	-0.022	0.043	0.022	-0.022	0.044
position:	82976	380968.88	-0.015	-0.024	-0.125	-0.015	-0.024	-0.125
position:	82977	380975.72	-0.044	-0.018	-0.032	-0.044	-0.018	-0.032
position:	82978	380982.81	-0.078	-0.057	-0.005	-0.078	-0.057	-0.005
position:	82979	380989.96	-0.062	-0.049	-0.030	-0.062	-0.049	-0.030
position:	82980	380997.12	-0.084	-0.045	-0.020	-0.084	-0.045	-0.020
position:	82981	381004.31	-0.130	0.000	-0.024	-0.130	0.000	-0.024
position:	82982	381011.66	-0.103	-0.006	0.018	-0.103	-0.006	0.018
position:	82983	381019.09	-0.117	-0.029	-0.003	-0.117	-0.029	-0.003
position:	82984	381026.54	-0.142	-0.015	-0.038	-0.142	-0.015	-0.038
position:	82985	381034.05	-0.157	-0.056	0.031	-0.157	-0.056	0.031
position:	82986	381041.58	-0.112	-0.016	0.049	-0.112	-0.016	0.049
position:	82987	381049.12	-0.105	-0.002	-0.040	-0.105	-0.002	-0.040

position:	82988	381056.63	-0.078	-0.048	0.054	-0.078	-0.048	0.054
position:	82989	381064.11	-0.032	0.033	0.065	-0.032	0.033	0.065
position:	82926	380450.89	0.031	0.039	-0.026	0.031	0.039	-0.025
position:	82927	380457.84	0.058	0.035	-0.048	0.058	0.035	-0.048
position:	82928	380464.81	0.100	0.031	0.005	0.100	0.031	0.005
position:	82929	380471.72	0.096	0.056	0.034	0.096	0.056	0.034
position:	82930	380478.61	0.133	0.008	0.014	0.133	0.008	0.014
position:	82931	380485.47	0.099	0.028	-0.013	0.099	0.028	-0.013
position:	82932	380492.21	0.095	0.075	0.042	0.095	0.075	0.042
position:	82933	380498.91	0.099	0.061	0.016	0.099	0.061	0.017
position:	82934	380505.49	0.076	0.026	0.050	0.076	0.026	0.050
position:	82935	380512.05	0.091	0.029	-0.034	0.091	0.029	-0.033
position:	82936	380518.55	0.062	0.008	0.020	0.062	0.008	0.020
position:	82937	380525.03	0.051	0.013	0.029	0.051	0.013	0.029
position:	82938	380531.48	0.047	0.019	-0.022	0.047	0.019	-0.022
position:	82939	380537.85	0.012	-0.013	0.062	0.012	-0.013	0.062
position:	82835	379620.58	-0.041	-0.030	-0.108	-0.040	-0.030	-0.108
position:	82836	379627.44	-0.075	-0.014	-0.033	-0.075	-0.014	-0.033
position:	82837	379634.28	-0.073	-0.048	0.027	-0.073	-0.048	0.027
position:	82838	379641.18	-0.104	-0.046	0.016	-0.104	-0.046	0.016
position:	82839	379648.16	-0.102	-0.027	-0.028	-0.102	-0.027	-0.028
position:	82840	379655.17	-0.076	-0.037	0.016	-0.076	-0.037	0.016
position:	82841	379662.18	-0.096	-0.025	-0.007	-0.096	-0.025	-0.007
position:	82842	379669.23	-0.099	-0.049	-0.046	-0.099	-0.049	-0.046
position:	82843	379676.35	-0.086	-0.013	0.039	-0.086	-0.013	0.039
position:	82844	379683.56	-0.104	-0.002	-0.009	-0.104	-0.002	-0.009
position:	82845	379690.80	-0.100	-0.054	0.052	-0.100	-0.054	0.052
position:	82846	379698.17	-0.124	-0.016	-0.022	-0.124	-0.016	-0.022
position:	82847	379705.61	-0.069	0.002	0.052	-0.069	0.002	0.052
position:	82848	379713.08	-0.056	0.008	0.059	-0.056	0.008	0.059
position:	82849	379720.49	-0.021	0.005	0.051	-0.021	0.005	0.051
position:	82786	378736.10	0.050	0.008	-0.063	0.050	0.008	-0.063
position:	82787	378743.05	0.058	0.014	-0.004	0.058	0.014	-0.004
position:	82788	378750.00	0.071	-0.001	-0.015	0.071	-0.001	-0.015
position:	82789	378756.84	0.059	0.001	-0.030	0.059	0.001	-0.030
position:	82790	378763.65	0.086	0.017	0.031	0.086	0.017	0.031
position:	82791	378770.39	0.074	-0.014	0.001	0.074	-0.014	0.001
position:	82792	378777.10	0.060	0.007	-0.038	0.060	0.007	-0.038
position:	82793	378783.78	0.075	0.008	-0.010	0.075	0.008	-0.010
position:	82794	378790.40	0.085	-0.010	0.024	0.085	-0.010	0.024
position:	82795	378796.94	0.072	0.008	-0.067	0.072	0.008	-0.067
position:	82796	378803.44	0.095	0.003	0.007	0.095	0.003	0.008
position:	82797	378809.91	0.069	-0.012	0.006	0.069	-0.012	0.006
position:	82798	378816.28	0.080	-0.004	0.018	0.080	-0.004	0.018
position:	82799	378822.60	0.063	-0.005	-0.033	0.063	-0.005	-0.033
position:	82800	378828.93	0.035	0.002	0.025	0.035	0.002	0.025

Average position offset:

East: 0.000 m
North: 0.000 m
Alt: 0.000 m
Position offset RMS:
East: 0.079 m
North: 0.030 m
Alt: 0.041 m

Misalignment angles for the single events [deg]:

	number	time	roll	pitch	yaw	d roll	d pitch	d yaw
angle:	83118	382447.77	-0.1108	0.1194	-0.2492	0.0025	-0.0010	-0.0014
angle:	83119	382454.65	-0.1108	0.1194	-0.2489	0.0026	-0.0010	-0.0011
angle:	83120	382461.61	-0.1117	0.1192	-0.2487	0.0017	-0.0013	-0.0009
angle:	83121	382468.59	-0.1128	0.1191	-0.2492	0.0005	-0.0013	-0.0014
angle:	83122	382475.63	-0.1127	0.1190	-0.2495	0.0007	-0.0014	-0.0017
angle:	83123	382482.75	-0.1127	0.1193	-0.2494	0.0006	-0.0012	-0.0016
angle:	83124	382489.86	-0.1135	0.1195	-0.2497	-0.0001	-0.0010	-0.0019
angle:	83125	382497.06	-0.1142	0.1193	-0.2498	-0.0009	-0.0011	-0.0021
angle:	83126	382504.31	-0.1143	0.1204	-0.2500	-0.0009	-0.0001	-0.0022
angle:	83127	382511.60	-0.1138	0.1200	-0.2507	-0.0005	-0.0004	-0.0029
angle:	83128	382518.87	-0.1141	0.1198	-0.2513	-0.0008	-0.0006	-0.0035
angle:	83129	382526.17	-0.1146	0.1201	-0.2515	-0.0013	-0.0003	-0.0037
angle:	83130	382533.46	-0.1148	0.1199	-0.2515	-0.0015	-0.0005	-0.0037
angle:	83131	382540.72	-0.1145	0.1209	-0.2511	-0.0012	0.0005	-0.0033
angle:	83065	381823.94	-0.1118	0.1207	-0.2470	0.0015	0.0003	0.0007
angle:	83066	381830.82	-0.1118	0.1202	-0.2470	0.0015	-0.0002	0.0008
angle:	83067	381837.71	-0.1127	0.1201	-0.2469	0.0006	-0.0004	0.0009
angle:	83068	381844.63	-0.1126	0.1194	-0.2474	0.0008	-0.0010	0.0004
angle:	83069	381851.58	-0.1126	0.1200	-0.2474	0.0008	-0.0004	0.0004
angle:	83070	381858.53	-0.1121	0.1199	-0.2469	0.0013	-0.0005	0.0009
angle:	83071	381865.43	-0.1126	0.1209	-0.2471	0.0007	0.0005	0.0006
angle:	83072	381872.32	-0.1137	0.1202	-0.2471	-0.0004	-0.0002	0.0007
angle:	83073	381879.17	-0.1131	0.1210	-0.2472	0.0002	0.0006	0.0006
angle:	83074	381886.02	-0.1137	0.1205	-0.2471	-0.0004	0.0001	0.0007
angle:	83075	381892.70	-0.1140	0.1210	-0.2470	-0.0006	0.0006	0.0008
angle:	83076	381899.34	-0.1140	0.1206	-0.2472	-0.0007	0.0002	0.0006
angle:	83077	381905.91	-0.1145	0.1210	-0.2469	-0.0012	0.0005	0.0009
angle:	83078	381912.44	-0.1146	0.1210	-0.2470	-0.0012	0.0006	0.0008
angle:	83079	381918.76	-0.1147	0.1218	-0.2474	-0.0013	0.0013	0.0003
angle:	82976	380968.88	-0.1115	0.1199	-0.2461	0.0018	-0.0005	0.0017
angle:	82977	380975.72	-0.1117	0.1197	-0.2462	0.0016	-0.0008	0.0016

angle:	82978	380982.81	-0.1126	0.1190	-0.2465	0.0008	-0.0014	0.0013
angle:	82979	380989.96	-0.1127	0.1195	-0.2469	0.0006	-0.0010	0.0009
angle:	82980	380997.12	-0.1133	0.1191	-0.2470	0.0000	-0.0013	0.0008
angle:	82981	381004.31	-0.1127	0.1187	-0.2468	0.0007	-0.0018	0.0010
angle:	82982	381011.66	-0.1130	0.1187	-0.2472	0.0004	-0.0017	0.0006
angle:	82983	381019.09	-0.1139	0.1187	-0.2475	-0.0006	-0.0018	0.0003
angle:	82984	381026.54	-0.1135	0.1181	-0.2469	-0.0002	-0.0023	0.0009
angle:	82985	381034.05	-0.1145	0.1182	-0.2475	-0.0012	-0.0023	0.0003
angle:	82986	381041.58	-0.1142	0.1189	-0.2475	-0.0008	-0.0015	0.0003
angle:	82987	381049.12	-0.1138	0.1191	-0.2478	-0.0005	-0.0013	0.0000
angle:	82988	381056.63	-0.1147	0.1199	-0.2476	-0.0014	-0.0005	0.0001
angle:	82989	381064.11	-0.1133	0.1208	-0.2482	0.0000	0.0004	-0.0005
angle:	82926	380450.89	-0.1112	0.1207	-0.2496	0.0022	0.0002	-0.0018
angle:	82927	380457.84	-0.1115	0.1205	-0.2495	0.0019	0.0000	-0.0017
angle:	82928	380464.81	-0.1120	0.1196	-0.2494	0.0013	-0.0008	-0.0016
angle:	82929	380471.72	-0.1123	0.1197	-0.2494	0.0011	-0.0008	-0.0016
angle:	82930	380478.61	-0.1114	0.1194	-0.2493	0.0019	-0.0011	-0.0016
angle:	82931	380485.47	-0.1119	0.1198	-0.2494	0.0015	-0.0006	-0.0017
angle:	82932	380492.21	-0.1128	0.1201	-0.2493	0.0006	-0.0004	-0.0016
angle:	82933	380498.91	-0.1129	0.1203	-0.2501	0.0005	-0.0001	-0.0023
angle:	82934	380505.49	-0.1125	0.1208	-0.2497	0.0009	0.0003	-0.0019
angle:	82935	380512.05	-0.1128	0.1204	-0.2501	0.0006	0.0000	-0.0024
angle:	82936	380518.55	-0.1126	0.1206	-0.2497	0.0008	0.0001	-0.0019
angle:	82937	380525.03	-0.1131	0.1204	-0.2495	0.0002	-0.0001	-0.0018
angle:	82938	380531.48	-0.1131	0.1203	-0.2496	0.0002	-0.0001	-0.0018
angle:	82939	380537.85	-0.1133	0.1211	-0.2488	0.0000	0.0007	-0.0010
angle:	82835	379620.58	-0.1121	0.1214	-0.2452	0.0012	0.0009	0.0026
angle:	82836	379627.44	-0.1119	0.1200	-0.2448	0.0014	-0.0004	0.0030
angle:	82837	379634.28	-0.1126	0.1198	-0.2446	0.0007	-0.0006	0.0031
angle:	82838	379641.18	-0.1127	0.1192	-0.2449	0.0006	-0.0012	0.0028
angle:	82839	379648.16	-0.1128	0.1189	-0.2447	0.0005	-0.0015	0.0030
angle:	82840	379655.17	-0.1132	0.1191	-0.2451	0.0002	-0.0014	0.0027
angle:	82841	379662.18	-0.1130	0.1187	-0.2449	0.0003	-0.0017	0.0029
angle:	82842	379669.23	-0.1133	0.1186	-0.2445	0.0000	-0.0018	0.0033
angle:	82843	379676.35	-0.1130	0.1192	-0.2444	0.0003	-0.0012	0.0034
angle:	82844	379683.56	-0.1125	0.1188	-0.2445	0.0009	-0.0016	0.0033
angle:	82845	379690.80	-0.1136	0.1186	-0.2450	-0.0002	-0.0019	0.0028
angle:	82846	379698.17	-0.1134	0.1183	-0.2451	-0.0001	-0.0021	0.0027
angle:	82847	379705.61	-0.1133	0.1193	-0.2451	0.0000	-0.0011	0.0027
angle:	82848	379713.08	-0.1132	0.1195	-0.2454	0.0001	-0.0009	0.0024
angle:	82849	379720.49	-0.1136	0.1203	-0.2455	-0.0003	-0.0002	0.0022
angle:	82786	378736.10	-0.1133	0.1234	-0.2486	0.0001	0.0029	-0.0008
angle:	82787	378743.05	-0.1136	0.1232	-0.2482	-0.0002	0.0027	-0.0004
angle:	82788	378750.00	-0.1134	0.1230	-0.2482	-0.0001	0.0025	-0.0004
angle:	82789	378756.84	-0.1144	0.1232	-0.2478	-0.0010	0.0027	0.0000
angle:	82790	378763.65	-0.1151	0.1229	-0.2476	-0.0018	0.0024	0.0002
angle:	82791	378770.39	-0.1147	0.1231	-0.2481	-0.0014	0.0026	-0.0003
angle:	82792	378777.10	-0.1153	0.1239	-0.2481	-0.0019	0.0034	-0.0003
angle:	82793	378783.78	-0.1156	0.1239	-0.2482	-0.0022	0.0035	-0.0004
angle:	82794	378790.40	-0.1152	0.1242	-0.2481	-0.0019	0.0038	-0.0003
angle:	82795	378796.94	-0.1155	0.1243	-0.2483	-0.0021	0.0038	-0.0005
angle:	82796	378803.44	-0.1153	0.1237	-0.2486	-0.0019	0.0033	-0.0008
angle:	82797	378809.91	-0.1152	0.1239	-0.2487	-0.0019	0.0034	-0.0009
angle:	82798	378816.28	-0.1155	0.1236	-0.2484	-0.0022	0.0031	-0.0006
angle:	82799	378822.60	-0.1158	0.1234	-0.2484	-0.0025	0.0029	-0.0006
angle:	82800	378828.93	-0.1162	0.1228	-0.2479	-0.0028	0.0024	-0.0002

Average Boresight Angles:

Roll: -0.1133 deg
Pitch: 0.1204 deg
Yaw: -0.2478 deg

Boresight Angle RMS:

Roll: 0.0012 deg
Pitch: 0.0016 deg
Yaw: 0.0018 deg

Success!!

Boresight Calculation finished