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

Boresight Misalignment Calculations
02/07/2020 19:21:24

Project: Pol-Cal
Projectfile: C:\AEROofficeV51\PROYECTOS\07_PROYECTOS_EAGLE80\

Used input data:

Platform Solution: C:\AEROofficeV51\PROYECTOS\07_PROYECTOS_EAGLE80\Pol-Cal.aps
Event Mark File : C:\AEROofficeV51\PROYECTOS\07_PROYECTOS_EAGLE80\Pol-Cal.aom
AT Result File : C:\AEROofficeV51\PROYECTOS\07_PROYECTOS_EAGLE80\EQ_XYZOPK.TXT
Importformat File: C:\AEROofficeV51\FORMATOS\PTOFORMAT

Coordinate system scalefactor correction for height applied
Using DTM

Local Coordinate System:
UTM - ETRS89 SPH - ellipsoidal Altitude
System defined in: built-in coordinate system
Selected Zone: 29N
Meridian Convergence corrected

Loading INS Data
893 usable events found

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

74 events with matching eventnumbers found.

Postion offset for the single events [m]:

	number	time	east	north	alt	d east	d north	d alt
position:	839	487710.18	-0.035	-0.006	-0.101	-0.035	-0.006	-0.101
position:	840	487719.97	-0.033	-0.002	-0.064	-0.033	-0.002	-0.064
position:	841	487729.47	-0.052	-0.019	-0.015	-0.052	-0.019	-0.015
position:	842	487738.77	-0.087	-0.007	0.000	-0.087	-0.007	0.000
position:	843	487748.06	-0.068	-0.018	-0.021	-0.068	-0.018	-0.021
position:	844	487757.67	-0.067	0.007	-0.001	-0.067	0.007	-0.001
position:	845	487767.26	-0.060	-0.007	-0.015	-0.060	-0.007	-0.015
position:	846	487776.96	-0.051	-0.015	0.017	-0.051	-0.015	0.017
position:	847	487786.76	-0.070	-0.017	0.013	-0.070	-0.017	0.013
position:	848	487796.05	-0.043	-0.011	0.006	-0.043	-0.011	0.006
position:	849	487805.45	-0.027	-0.014	0.014	-0.027	-0.014	0.014
position:	850	487814.95	-0.033	0.030	0.067	-0.033	0.030	0.067
position:	736	486800.72	0.089	0.030	-0.035	0.089	0.030	-0.035
position:	737	486809.12	0.069	0.026	-0.001	0.069	0.026	-0.001
position:	738	486817.41	0.136	0.029	0.007	0.136	0.029	0.007
position:	739	486825.72	0.133	0.060	0.030	0.133	0.060	0.030
position:	740	486834.31	0.106	0.052	0.013	0.106	0.052	0.013
position:	741	486842.82	0.119	0.068	0.029	0.119	0.068	0.029
position:	742	486851.41	0.133	0.025	0.031	0.133	0.025	0.031
position:	743	486859.72	0.103	0.031	0.018	0.103	0.031	0.018
position:	744	486867.71	0.103	0.063	0.025	0.103	0.063	0.025
position:	745	486875.80	0.066	0.030	0.012	0.066	0.030	0.012
position:	746	486884.11	0.090	0.045	0.029	0.090	0.045	0.029
position:	747	486892.20	0.042	0.035	0.012	0.042	0.035	0.012
position:	639	485808.98	-0.060	0.039	-0.101	-0.060	0.039	-0.101
position:	640	485818.18	-0.077	0.035	-0.025	-0.077	0.035	-0.025
position:	641	485827.38	-0.092	0.001	-0.004	-0.092	0.001	-0.004
position:	642	485836.77	-0.088	-0.011	0.013	-0.088	-0.011	0.013
position:	643	485846.17	-0.121	0.019	0.023	-0.121	0.019	0.023
position:	644	485855.57	-0.089	0.006	0.012	-0.089	0.006	0.012
position:	645	485865.17	-0.086	0.017	0.019	-0.086	0.017	0.019
position:	646	485874.87	-0.068	0.024	0.039	-0.068	0.024	0.039
position:	647	485883.96	-0.086	-0.006	0.035	-0.086	-0.006	0.035
position:	648	485893.16	-0.055	-0.002	0.018	-0.055	-0.002	0.018
position:	649	485902.45	-0.070	0.021	0.023	-0.070	0.021	0.023
position:	650	485912.05	-0.028	-0.007	0.040	-0.028	-0.007	0.040
position:	651	485921.95	-0.030	-0.018	0.050	-0.030	-0.018	0.050
position:	536	484898.73	0.127	-0.020	-0.045	0.127	-0.020	-0.045
position:	537	484907.22	0.113	-0.008	-0.048	0.113	-0.008	-0.048
position:	538	484915.42	0.133	-0.046	-0.036	0.133	-0.046	-0.036
position:	539	484923.32	0.179	-0.031	-0.028	0.179	-0.031	-0.028

position:	540	484931.11	0.104	-0.038	-0.008	0.104	-0.038	-0.008
position:	541	484938.92	0.154	-0.036	0.011	0.154	-0.036	0.012
position:	542	484947.12	0.116	-0.033	0.005	0.116	-0.033	0.005
position:	543	484955.12	0.092	-0.019	-0.034	0.092	-0.019	-0.034
position:	544	484963.02	0.101	-0.030	-0.050	0.101	-0.030	-0.050
position:	545	484970.81	0.094	-0.008	-0.045	0.094	-0.008	-0.045
position:	546	484978.71	0.063	0.010	-0.050	0.063	0.010	-0.050
position:	547	484986.55	0.071	-0.027	-0.051	0.071	-0.027	-0.051
position:	548	484994.32	0.036	-0.009	-0.049	0.036	-0.009	-0.049
position:	440	483913.58	-0.088	-0.016	-0.144	-0.088	-0.016	-0.144
position:	441	483922.78	-0.071	-0.019	-0.105	-0.071	-0.019	-0.105
position:	442	483931.98	-0.106	-0.034	-0.086	-0.106	-0.034	-0.086
position:	443	483941.27	-0.088	-0.040	-0.057	-0.088	-0.040	-0.057
position:	444	483950.47	-0.082	-0.020	-0.067	-0.082	-0.020	-0.067
position:	445	483959.98	-0.119	-0.054	-0.036	-0.119	-0.054	-0.036
position:	446	483969.87	-0.076	-0.065	-0.032	-0.076	-0.065	-0.032
position:	447	483979.69	-0.115	-0.022	-0.034	-0.115	-0.022	-0.034
position:	448	483989.08	-0.047	-0.036	-0.070	-0.047	-0.036	-0.070
position:	449	483998.57	-0.088	-0.058	-0.043	-0.088	-0.058	-0.043
position:	450	484008.53	-0.034	-0.018	-0.035	-0.034	-0.018	-0.035
position:	451	484018.77	-0.047	0.000	0.016	-0.047	0.000	0.016
position:	47	480167.68	0.016	0.024	-0.061	0.016	0.024	-0.061
position:	48	480177.08	0.014	0.047	-0.036	0.014	0.047	-0.036
position:	49	480186.69	0.002	0.001	0.048	0.002	0.001	0.048
position:	50	480196.28	-0.006	0.030	0.052	-0.006	0.030	0.052
position:	51	480205.97	-0.018	0.025	0.051	-0.018	0.025	0.051
position:	52	480215.98	0.001	0.008	0.081	0.001	0.008	0.081
position:	53	480226.17	-0.016	-0.026	0.119	-0.016	-0.026	0.119
position:	54	480236.69	-0.021	0.013	0.112	-0.021	0.013	0.112
position:	55	480246.97	-0.002	0.026	0.108	-0.002	0.026	0.108
position:	56	480257.37	-0.004	0.016	0.124	-0.004	0.016	0.124
position:	57	480268.06	0.003	-0.002	0.153	0.003	-0.002	0.153
position:	58	480278.77	0.000	-0.017	0.156	0.000	-0.017	0.156

Average position offset:

East: 0.000 m
North: 0.000 m
Alt: 0.000 m
Position offset RMS:
East: 0.082 m
North: 0.029 m
Alt: 0.058 m

Misalignment angles for the single events [deg]:

	number	time	roll	pitch	yaw	d roll	d pitch	d yaw
angle:	839	487710.18	0.1363	0.2924	-0.2976	0.0017	-0.0004	-0.0012
angle:	840	487719.97	0.1356	0.2917	-0.2975	0.0010	-0.0011	-0.0011
angle:	841	487729.47	0.1351	0.2907	-0.2976	0.0005	-0.0021	-0.0012
angle:	842	487738.77	0.1350	0.2908	-0.2975	0.0004	-0.0020	-0.0011
angle:	843	487748.06	0.1345	0.2911	-0.2984	-0.0002	-0.0017	-0.0020
angle:	844	487757.67	0.1346	0.2909	-0.2992	0.0000	-0.0019	-0.0028
angle:	845	487767.26	0.1349	0.2907	-0.2998	0.0003	-0.0021	-0.0034
angle:	846	487776.96	0.1348	0.2911	-0.3000	0.0001	-0.0017	-0.0036
angle:	847	487786.76	0.1352	0.2909	-0.3001	0.0006	-0.0019	-0.0037
angle:	848	487796.05	0.1349	0.2915	-0.3006	0.0003	-0.0013	-0.0042
angle:	849	487805.45	0.1346	0.2919	-0.3014	0.0000	-0.0009	-0.0050
angle:	850	487814.95	0.1349	0.2919	-0.3022	0.0003	-0.0009	-0.0058
angle:	736	486800.72	0.1373	0.2967	-0.2935	0.0027	0.0039	0.0029
angle:	737	486809.12	0.1391	0.2958	-0.2932	0.0045	0.0030	0.0032
angle:	738	486817.41	0.1376	0.2945	-0.2929	0.0030	0.0017	0.0035
angle:	739	486825.72	0.1375	0.2952	-0.2930	0.0029	0.0024	0.0034
angle:	740	486834.31	0.1385	0.2955	-0.2932	0.0039	0.0027	0.0032
angle:	741	486842.82	0.1369	0.2948	-0.2934	0.0023	0.0021	0.0030
angle:	742	486851.41	0.1379	0.2944	-0.2930	0.0033	0.0017	0.0034
angle:	743	486859.72	0.1373	0.2948	-0.2925	0.0027	0.0020	0.0039
angle:	744	486867.71	0.1369	0.2945	-0.2926	0.0023	0.0017	0.0038
angle:	745	486875.80	0.1382	0.2944	-0.2929	0.0036	0.0016	0.0035
angle:	746	486884.11	0.1374	0.2941	-0.2925	0.0028	0.0013	0.0039
angle:	747	486892.20	0.1381	0.2947	-0.2925	0.0034	0.0019	0.0039
angle:	639	485808.98	0.1349	0.2937	-0.2942	0.0003	0.0010	0.0022
angle:	640	485818.18	0.1346	0.2932	-0.2945	0.0000	0.0004	0.0019
angle:	641	485827.38	0.1341	0.2928	-0.2940	-0.0005	0.0000	0.0024
angle:	642	485836.77	0.1347	0.2927	-0.2942	0.0001	-0.0001	0.0022
angle:	643	485846.17	0.1355	0.2913	-0.2946	0.0009	-0.0015	0.0018
angle:	644	485855.57	0.1349	0.2922	-0.2947	0.0003	-0.0006	0.0017
angle:	645	485865.17	0.1344	0.2912	-0.2946	-0.0002	-0.0016	0.0018
angle:	646	485874.87	0.1348	0.2909	-0.2948	0.0002	-0.0019	0.0016
angle:	647	485883.96	0.1347	0.2900	-0.2945	0.0001	-0.0028	0.0019
angle:	648	485893.16	0.1346	0.2912	-0.2944	-0.0001	-0.0016	0.0020
angle:	649	485902.45	0.1353	0.2910	-0.2944	0.0007	-0.0018	0.0020
angle:	650	485912.05	0.1342	0.2922	-0.2947	-0.0004	-0.0006	0.0017
angle:	651	485921.95	0.1341	0.2923	-0.2950	-0.0005	-0.0005	0.0014
angle:	536	484898.73	0.1324	0.2982	-0.2990	-0.0022	0.0054	-0.0026
angle:	537	484907.22	0.1329	0.2983	-0.2988	-0.0017	0.0055	-0.0024
angle:	538	484915.42	0.1344	0.2973	-0.2988	-0.0002	0.0045	-0.0024
angle:	539	484923.32	0.1338	0.2958	-0.2989	-0.0008	0.0030	-0.0025
angle:	540	484931.11	0.1336	0.2973	-0.2982	-0.0010	0.0045	-0.0018
angle:	541	484938.92	0.1328	0.2965	-0.2986	-0.0018	0.0037	-0.0022
angle:	542	484947.12	0.1333	0.2962	-0.2986	-0.0014	0.0034	-0.0022

angle:	543	484955.12	0.1331	0.2969	-0.2988	-0.0015	0.0041	-0.0024
angle:	544	484963.02	0.1334	0.2960	-0.2985	-0.0012	0.0032	-0.0021
angle:	545	484970.81	0.1330	0.2954	-0.2983	-0.0016	0.0027	-0.0019
angle:	546	484978.71	0.1337	0.2959	-0.2981	-0.0009	0.0031	-0.0017
angle:	547	484986.55	0.1348	0.2952	-0.2978	0.0002	0.0024	-0.0014
angle:	548	484994.32	0.1334	0.2954	-0.2978	-0.0012	0.0026	-0.0014
angle:	440	483913.58	0.1353	0.2942	-0.2992	0.0006	0.0014	-0.0028
angle:	441	483922.78	0.1343	0.2934	-0.2989	-0.0003	0.0006	-0.0025
angle:	442	483931.98	0.1335	0.2928	-0.2983	-0.0011	0.0000	-0.0019
angle:	443	483941.27	0.1341	0.2933	-0.2984	-0.0005	0.0005	-0.0020
angle:	444	483950.47	0.1353	0.2930	-0.2983	0.0007	0.0002	-0.0020
angle:	445	483959.98	0.1348	0.2925	-0.2982	0.0002	-0.0003	-0.0018
angle:	446	483969.87	0.1349	0.2925	-0.2976	0.0003	-0.0003	-0.0012
angle:	447	483979.69	0.1363	0.2915	-0.2978	0.0017	-0.0013	-0.0014
angle:	448	483989.08	0.1356	0.2926	-0.2979	0.0010	-0.0002	-0.0015
angle:	449	483998.57	0.1349	0.2926	-0.2978	0.0003	-0.0002	-0.0014
angle:	450	484008.53	0.1348	0.2938	-0.2974	0.0002	0.0010	-0.0010
angle:	451	484018.87	0.1349	0.2933	-0.2969	0.0003	0.0005	-0.0005
angle:	47	480167.68	0.1322	0.2908	-0.2960	-0.0024	-0.0020	0.0004
angle:	48	480177.08	0.1327	0.2894	-0.2958	-0.0019	-0.0034	0.0006
angle:	49	480186.69	0.1317	0.2896	-0.2955	-0.0030	-0.0032	0.0009
angle:	50	480196.28	0.1321	0.2888	-0.2955	-0.0025	-0.0040	0.0009
angle:	51	480205.97	0.1319	0.2885	-0.2951	-0.0027	-0.0043	0.0013
angle:	52	480215.98	0.1314	0.2887	-0.2948	-0.0032	-0.0041	0.0016
angle:	53	480226.17	0.1305	0.2883	-0.2951	-0.0041	-0.0045	0.0013
angle:	54	480236.69	0.1307	0.2881	-0.2950	-0.0040	-0.0046	0.0014
angle:	55	480246.97	0.1317	0.2885	-0.2955	-0.0029	-0.0043	0.0009
angle:	56	480257.37	0.1325	0.2886	-0.2948	-0.0021	-0.0042	0.0016
angle:	57	480268.06	0.1336	0.2891	-0.2941	-0.0010	-0.0037	0.0023
angle:	58	480278.77	0.1335	0.2891	-0.2935	-0.0011	-0.0037	0.0029

Average Boresight Angles:

Roll: 0.1346 deg
Pitch: 0.2928 deg
Yaw: -0.2964 deg

Boresight Angle RMS:

Roll: 0.0018 deg
Pitch: 0.0026 deg
Yaw: 0.0025 deg

Success!!

Boresight Calculation finished