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

Boresight Misalignment Calculations
27/08/2021 18:32:29

Project: POL-CAL_PNOA
Projectfile: C:\AEROofficeV51\PROYECTOS\03-PROYECTOS_EAGLE-M3

Used input data:

Platform Solution: C:\AEROofficeV51\PROYECTOS\03-PROYECTOS_EAGLE-M3\Pol-Cal.aps
Event Mark File : C:\AEROofficeV51\PROYECTOS\03-PROYECTOS_EAGLE-M3\Pol-Cal.aom
AT Result File : C:\AEROofficeV51\PROYECTOS\03-PROYECTOS_EAGLE-M3\EO_xyzoph.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: 30N
Meridian Convergence corrected

Loading INS Data
484 usable events found

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

108 events with matching eventnumbers found.

Position offset for the single events [m]:

	number	time	east	north	alt	d east	d north	d alt
position:	22914	296078.56	0.007	0.007	-0.001	0.008	0.007	-0.001
position:	22915	296092.95	0.002	0.001	0.019	0.002	0.000	0.019
position:	22916	296107.26	0.003	0.005	0.000	0.003	0.005	0.000
position:	22917	296121.33	0.006	0.000	-0.018	0.006	0.000	-0.018
position:	22918	296135.39	-0.001	-0.003	-0.020	-0.001	-0.003	-0.020
position:	22919	296149.47	-0.023	0.007	-0.008	-0.023	0.007	-0.008
position:	22920	296163.56	-0.010	-0.004	0.001	-0.010	-0.004	0.001
position:	22921	296177.68	-0.014	0.006	0.006	-0.014	0.006	0.006
position:	22922	296191.89	-0.001	-0.012	0.017	-0.001	-0.012	0.017
position:	22923	296206.15	0.007	0.000	-0.008	0.007	-0.001	-0.008
position:	22924	296220.44	0.005	-0.002	0.019	0.005	-0.002	0.019
position:	22925	296234.59	0.002	-0.002	-0.013	0.002	-0.002	-0.013
position:	22926	296248.75	0.005	0.001	0.004	0.005	0.001	0.004
position:	22963	296938.76	-0.004	0.006	-0.014	-0.004	0.006	-0.014
position:	22964	296951.43	-0.002	0.000	0.013	-0.002	0.000	0.013
position:	22965	296964.08	0.001	-0.002	0.014	0.001	-0.002	0.014
position:	22966	296976.71	0.001	0.000	-0.019	0.001	0.000	-0.019
position:	22967	296989.34	0.004	0.002	0.001	0.004	0.002	0.001
position:	22968	297001.88	0.008	-0.004	-0.004	0.008	-0.004	-0.004
position:	22969	297014.33	0.007	-0.002	-0.003	0.007	-0.002	-0.003
position:	22970	297026.78	0.012	-0.002	-0.010	0.012	-0.002	-0.010
position:	22971	297039.22	0.007	0.001	0.022	0.007	0.001	0.022
position:	22972	297051.66	0.004	0.004	0.000	0.004	0.004	0.000
position:	22973	297064.11	-0.001	-0.002	0.009	-0.001	-0.002	0.009
position:	22974	297076.71	-0.004	-0.001	-0.003	-0.004	-0.001	-0.003
position:	22975	297089.40	0.000	-0.004	-0.007	0.001	-0.004	-0.007
position:	23017	297826.19	0.009	-0.002	0.035	0.010	-0.002	0.035
position:	23018	297840.53	0.002	-0.006	-0.027	0.002	-0.006	-0.027
position:	23019	297854.80	0.002	0.005	0.011	0.002	0.005	0.011
position:	23020	297868.88	-0.004	-0.002	-0.024	-0.004	-0.002	-0.024
position:	23021	297882.94	-0.013	0.001	-0.025	-0.013	0.001	-0.025
position:	23022	297896.99	-0.008	-0.005	0.022	-0.008	-0.005	0.022
position:	23023	297911.09	0.011	0.004	0.014	0.011	0.004	0.014
position:	23024	297925.19	0.002	0.001	-0.005	0.002	0.001	-0.005
position:	23025	297939.35	0.004	0.000	-0.002	0.004	0.000	-0.002
position:	23026	297953.54	-0.005	-0.004	0.011	-0.005	-0.004	0.011
position:	23027	297967.80	-0.007	-0.001	-0.013	-0.007	-0.001	-0.013
position:	23028	297982.06	-0.008	-0.002	-0.011	-0.008	-0.002	-0.011
position:	23029	297996.29	0.003	0.001	0.017	0.003	0.001	0.017
position:	23066	298649.34	-0.002	-0.006	0.029	-0.002	-0.006	0.029
position:	23067	298661.79	0.002	0.003	-0.052	0.002	0.003	-0.052
position:	23068	298674.29	0.017	0.001	-0.029	0.017	0.001	-0.029

position:	23069	298686.82	0.014	0.000	0.031	0.015	0.000	0.031
position:	23070	298699.43	0.003	-0.005	0.011	0.004	-0.005	0.011
position:	23071	298711.99	-0.001	-0.001	-0.028	-0.001	-0.001	-0.028
position:	23072	298724.55	0.005	0.010	0.013	0.005	0.009	0.013
position:	23073	298737.08	0.002	0.000	-0.003	0.002	0.000	-0.003
position:	23074	298749.62	0.002	0.003	-0.017	0.002	0.003	-0.017
position:	23075	298762.17	0.013	-0.001	-0.036	0.013	-0.001	-0.036
position:	23076	298774.79	0.014	0.006	0.004	0.014	0.006	0.004
position:	23077	298787.41	0.009	0.010	-0.002	0.009	0.010	-0.002
position:	23078	298800.05	0.001	0.002	0.033	0.001	0.002	0.033
position:	23079	298812.64	-0.011	0.006	-0.013	-0.011	0.006	-0.013
position:	23108	299337.51	-0.004	0.000	-0.032	-0.004	0.000	-0.032
position:	23109	299351.67	-0.004	-0.005	0.025	-0.004	-0.005	0.025
position:	23110	299365.75	0.002	-0.005	0.026	0.002	-0.005	0.026
position:	23111	299379.79	-0.011	-0.004	-0.034	-0.011	-0.004	-0.034
position:	23112	299393.59	-0.014	-0.006	0.013	-0.014	-0.006	0.013
position:	23113	299407.27	-0.004	-0.012	-0.001	-0.004	-0.012	0.000
position:	23114	299420.94	-0.011	-0.008	0.015	-0.011	-0.008	0.015
position:	23115	299434.70	-0.006	-0.003	-0.005	-0.006	-0.004	-0.005
position:	23116	299448.46	-0.007	-0.005	0.023	-0.007	-0.005	0.023
position:	23117	299462.26	-0.007	0.008	-0.002	-0.007	0.007	-0.002
position:	23118	299476.10	-0.010	-0.006	-0.005	-0.010	-0.006	-0.005
position:	23119	299489.88	-0.007	-0.012	0.030	-0.007	-0.012	0.030
position:	23120	299503.61	-0.008	-0.008	-0.002	-0.008	-0.008	-0.002
position:	23121	299517.28	-0.001	-0.006	0.012	-0.001	-0.006	0.012
position:	23158	300183.23	-0.004	-0.015	0.006	-0.004	-0.015	0.006
position:	23159	300195.32	-0.008	0.016	0.018	-0.008	0.016	0.018
position:	23160	300207.46	0.000	0.002	-0.018	0.000	0.001	-0.018
position:	23161	300219.67	-0.001	-0.001	0.008	-0.001	-0.001	0.008
position:	23162	300231.89	-0.007	0.011	0.018	-0.007	0.011	0.018
position:	23163	300244.06	-0.007	-0.007	-0.012	-0.007	-0.007	-0.012
position:	23164	300256.20	0.001	0.007	-0.004	0.001	0.007	-0.004
position:	23165	300268.32	-0.002	-0.009	-0.025	-0.002	-0.009	-0.025
position:	23166	300280.42	-0.004	0.004	0.027	-0.004	0.004	0.027
position:	23167	300292.50	-0.005	-0.008	-0.017	-0.005	-0.008	-0.017
position:	23168	300304.70	0.002	-0.003	0.008	0.002	-0.003	0.008
position:	23169	300316.95	0.003	0.002	-0.029	0.003	0.002	-0.029
position:	23170	300329.28	0.001	-0.007	0.037	0.001	-0.007	0.037
position:	23171	300341.69	0.005	-0.001	-0.022	0.005	-0.001	-0.022
position:	23202	300965.08	0.007	-0.002	-0.022	0.008	-0.002	-0.022
position:	23203	300978.97	-0.002	0.002	-0.022	-0.002	0.002	-0.022
position:	23204	300992.76	0.003	0.008	0.039	0.003	0.008	0.039
position:	23205	301006.50	0.010	0.005	0.001	0.010	0.005	0.001
position:	23206	301020.25	0.000	0.005	-0.009	0.000	0.005	-0.009
position:	23207	301034.00	-0.004	0.008	-0.022	-0.004	0.008	-0.022
position:	23208	301047.75	0.016	-0.018	0.136	0.016	-0.018	0.136
position:	23209	301061.53	-0.004	0.025	-0.077	-0.004	0.025	-0.077
position:	23210	301075.35	0.011	0.004	-0.030	0.011	0.004	-0.030
position:	23211	301089.22	-0.002	0.009	-0.016	-0.002	0.009	-0.016
position:	23212	301103.04	0.004	0.006	0.018	0.004	0.006	0.018
position:	23213	301116.83	-0.003	0.004	-0.043	-0.003	0.004	-0.043
position:	23214	301130.41	-0.006	0.004	0.038	-0.006	0.003	0.038
position:	23215	301143.97	0.000	0.006	0.008	0.000	0.006	0.008
position:	23252	301831.05	-0.003	-0.004	-0.009	-0.003	-0.004	-0.009
position:	23253	301843.21	0.010	0.001	-0.021	0.010	0.001	-0.021
position:	23254	301855.38	0.001	-0.004	0.052	0.001	-0.004	0.052
position:	23255	301867.61	0.003	0.010	0.002	0.003	0.010	0.002
position:	23256	301879.89	-0.009	-0.004	-0.008	-0.009	-0.004	-0.008
position:	23257	301892.20	-0.014	0.003	-0.020	-0.014	0.003	-0.020
position:	23258	301904.51	0.006	-0.003	0.015	0.006	-0.003	0.015
position:	23259	301916.84	0.007	-0.006	-0.021	0.007	-0.006	-0.021
position:	23260	301929.13	0.008	0.003	-0.006	0.008	0.003	-0.006
position:	23261	301941.37	0.004	-0.003	0.041	0.004	-0.003	0.041
position:	23262	301953.58	-0.004	0.002	-0.009	-0.004	0.002	-0.009
position:	23263	301965.80	0.002	0.014	-0.025	0.002	0.014	-0.025
position:	23264	301978.06	-0.007	-0.010	0.011	-0.007	-0.010	0.011

Average position offset:

East: 0.000 m
North: 0.000 m
Alt: 0.000 m

Position offset RMS:

East: 0.007 m
North: 0.006 m
Alt: 0.025 m

Misalignment angles for the single events [deg]:

	number	time	roll	yaw	d roll	d pitch	d yaw
angle:	22914	296078.56	-0.1121	0.3093	-0.1893	-0.0018	0.0012
angle:	22915	296092.95	-0.1112	0.3112	-0.1878	-0.0008	0.0027
angle:	22916	296107.26	-0.1111	0.3114	-0.1890	-0.0007	0.0015
angle:	22917	296121.33	-0.1107	0.3108	-0.1879	-0.0003	0.0026
angle:	22918	296135.39	-0.1104	0.3116	-0.1866	0.0000	0.0039
angle:	22919	296149.47	-0.1106	0.3136	-0.1894	-0.0002	0.0011
angle:	22920	296163.56	-0.1102	0.3142	-0.1874	0.0001	0.0031
angle:	22921	296177.68	-0.1107	0.3126	-0.1873	-0.0003	0.0032
angle:	22922	296191.89	-0.1097	0.3108	-0.1893	0.0007	0.0012
angle:	22923	296206.15	-0.1095	0.3094	-0.1902	0.0009	0.0003
angle:	22924	296220.44	-0.1093	0.3099	-0.1895	0.0010	0.0010

angle:	22925	296234.59	-0.1096	0.3112	-0.1871	0.0007	-0.0002	0.0034
angle:	22926	296248.75	-0.1109	0.3102	-0.1861	-0.0005	-0.0012	0.0044
angle:	22963	296938.76	-0.1097	0.3098	-0.1926	0.0007	-0.0016	-0.0021
angle:	22964	296951.43	-0.1101	0.3105	-0.1912	0.0002	-0.0008	-0.0007
angle:	22965	296964.08	-0.1099	0.3116	-0.1920	0.0004	0.0003	-0.0015
angle:	22966	296976.71	-0.1108	0.3118	-0.1920	-0.0004	0.0004	-0.0015
angle:	22967	296989.34	-0.1105	0.3124	-0.1924	-0.0001	0.0010	-0.0019
angle:	22968	297001.88	-0.1110	0.3125	-0.1932	-0.0007	0.0012	-0.0027
angle:	22969	297014.33	-0.1111	0.3120	-0.1930	-0.0007	0.0007	-0.0025
angle:	22970	297026.78	-0.1109	0.3130	-0.1943	-0.0005	0.0016	-0.0038
angle:	22971	297039.22	-0.1102	0.3130	-0.1947	0.0002	0.0016	-0.0042
angle:	22972	297051.66	-0.1099	0.3124	-0.1911	0.0005	0.0010	-0.0006
angle:	22973	297064.11	-0.1105	0.3116	-0.1915	-0.0001	0.0002	-0.0010
angle:	22974	297076.71	-0.1105	0.3112	-0.1920	-0.0001	-0.0002	-0.0015
angle:	22975	297089.40	-0.1114	0.3114	-0.1917	-0.0010	0.0000	-0.0012
angle:	23017	297826.19	-0.1101	0.3107	-0.1893	0.0003	-0.0006	0.0012
angle:	23018	297840.53	-0.1100	0.3113	-0.1913	0.0004	0.0000	-0.0008
angle:	23019	297854.80	-0.1102	0.3124	-0.1908	0.0002	0.0011	-0.0003
angle:	23020	297868.88	-0.1101	0.3128	-0.1902	0.0003	0.0014	0.0003
angle:	23021	297882.94	-0.1104	0.3130	-0.1904	0.0000	0.0016	0.0001
angle:	23022	297896.99	-0.1100	0.3120	-0.1927	0.0004	0.0006	-0.0022
angle:	23023	297911.09	-0.1106	0.3092	-0.1915	-0.0002	-0.0022	-0.0010
angle:	23024	297925.19	-0.1108	0.3108	-0.1915	-0.0004	-0.0005	-0.0010
angle:	23025	297939.35	-0.1099	0.3104	-0.1932	0.0004	-0.0010	-0.0027
angle:	23026	297953.54	-0.1099	0.3126	-0.1929	0.0005	0.0013	-0.0024
angle:	23027	297967.80	-0.1094	0.3136	-0.1904	0.0010	0.0023	0.0001
angle:	23028	297982.06	-0.1100	0.3126	-0.1899	0.0004	0.0013	0.0006
angle:	23029	297996.29	-0.1107	0.3102	-0.1894	-0.0004	-0.0011	0.0011
angle:	23066	298649.34	-0.1108	0.3115	-0.1913	-0.0005	0.0001	-0.0008
angle:	23067	298661.79	-0.1108	0.3117	-0.1907	-0.0005	0.0004	-0.0002
angle:	23068	298674.29	-0.1102	0.3129	-0.1893	0.0002	0.0015	0.0012
angle:	23069	298686.82	-0.1102	0.3134	-0.1885	0.0002	0.0021	0.0020
angle:	23070	298699.43	-0.1100	0.3122	-0.1900	0.0003	0.0008	0.0005
angle:	23071	298711.99	-0.1103	0.3112	-0.1921	0.0000	-0.0002	-0.0016
angle:	23072	298724.55	-0.1090	0.3122	-0.1909	0.0014	0.0009	-0.0004
angle:	23073	298737.08	-0.1092	0.3117	-0.1899	0.0012	0.0004	0.0006
angle:	23074	298749.62	-0.1091	0.3118	-0.1909	0.0013	0.0004	-0.0004
angle:	23075	298762.17	-0.1086	0.3129	-0.1902	0.0018	0.0015	0.0003
angle:	23076	298774.79	-0.1094	0.3121	-0.1888	0.0010	0.0008	0.0017
angle:	23077	298787.41	-0.1092	0.3125	-0.1891	0.0011	0.0011	0.0014
angle:	23078	298800.05	-0.1089	0.3115	-0.1904	0.0015	0.0001	0.0001
angle:	23079	298812.64	-0.1086	0.3095	-0.1898	0.0018	-0.0019	0.0007
angle:	23108	299337.51	-0.1105	0.3105	-0.1912	-0.0001	-0.0009	-0.0007
angle:	23109	299351.67	-0.1104	0.3116	-0.1909	0.0000	0.0003	-0.0004
angle:	23110	299365.75	-0.1099	0.3117	-0.1919	0.0004	0.0003	-0.0014
angle:	23111	299379.79	-0.1098	0.3113	-0.1898	0.0005	0.0000	0.0007
angle:	23112	299393.59	-0.1099	0.3117	-0.1893	0.0004	0.0003	0.0012
angle:	23113	299407.27	-0.1095	0.3123	-0.1905	0.0009	0.0010	0.0000
angle:	23114	299420.94	-0.1097	0.3116	-0.1906	0.0007	0.0003	-0.0001
angle:	23115	299434.70	-0.1090	0.3115	-0.1908	0.0013	0.0001	-0.0003
angle:	23116	299448.46	-0.1092	0.3118	-0.1906	0.0012	0.0005	-0.0001
angle:	23117	299462.26	-0.1092	0.3118	-0.1905	0.0012	0.0004	0.0000
angle:	23118	299476.10	-0.1091	0.3121	-0.1891	0.0012	0.0007	0.0014
angle:	23119	299489.88	-0.1092	0.3123	-0.1887	0.0012	0.0010	0.0018
angle:	23120	299503.61	-0.1094	0.3120	-0.1903	0.0010	0.0006	0.0002
angle:	23121	299517.28	-0.1095	0.3112	-0.1917	0.0009	-0.0002	-0.0012
angle:	23158	300183.23	-0.1102	0.3102	-0.1900	0.0001	-0.0012	0.0005
angle:	23159	300195.32	-0.1103	0.3110	-0.1905	0.0000	-0.0004	0.0000
angle:	23160	300207.46	-0.1101	0.3112	-0.1903	0.0002	-0.0002	0.0002
angle:	23161	300219.67	-0.1104	0.3113	-0.1913	0.0000	0.0000	-0.0008
angle:	23162	300231.89	-0.1101	0.3117	-0.1902	0.0003	0.0003	0.0003
angle:	23163	300244.06	-0.1103	0.3116	-0.1900	0.0001	0.0002	0.0005
angle:	23164	300256.20	-0.1104	0.3116	-0.1883	-0.0001	0.0003	0.0022
angle:	23165	300268.32	-0.1110	0.3111	-0.1881	-0.0006	-0.0002	0.0024
angle:	23166	300280.42	-0.1108	0.3112	-0.1904	-0.0005	-0.0001	0.0001
angle:	23167	300292.50	-0.1105	0.3111	-0.1904	-0.0001	-0.0002	0.0001
angle:	23168	300304.70	-0.1103	0.3118	-0.1907	0.0000	0.0004	-0.0002
angle:	23169	300316.95	-0.1107	0.3116	-0.1907	-0.0004	0.0002	-0.0002
angle:	23170	300329.28	-0.1115	0.3115	-0.1897	-0.0012	0.0001	0.0008
angle:	23171	300341.69	-0.1110	0.3129	-0.1886	-0.0007	0.0016	0.0019
angle:	23202	300965.08	-0.1108	0.3085	-0.1898	-0.0004	-0.0029	0.0007
angle:	23203	300978.97	-0.1110	0.3094	-0.1900	-0.0006	-0.0019	0.0005
angle:	23204	300992.76	-0.1111	0.3087	-0.1912	-0.0007	-0.0026	-0.0007
angle:	23205	301006.50	-0.1116	0.3080	-0.1928	-0.0012	-0.0034	-0.0023
angle:	23206	301020.25	-0.1110	0.3100	-0.1906	-0.0006	-0.0013	-0.0001
angle:	23207	301034.00	-0.1121	0.3106	-0.1896	-0.0018	-0.0008	0.0009
angle:	23208	301047.75	-0.1121	0.3113	-0.1909	-0.0017	0.0000	-0.0004
angle:	23209	301061.53	-0.1121	0.3108	-0.1917	-0.0017	-0.0005	-0.0012
angle:	23210	301075.35	-0.1118	0.3099	-0.1900	-0.0015	-0.0015	0.0005
angle:	23211	301089.22	-0.1120	0.3098	-0.1916	-0.0016	-0.0015	-0.0010
angle:	23212	301103.04	-0.1113	0.3096	-0.1912	-0.0010	-0.0018	-0.0007
angle:	23213	301116.83	-0.1118	0.3101	-0.1922	-0.0015	-0.0012	-0.0017
angle:	23214	301130.41	-0.1117	0.3103	-0.1899	-0.0014	-0.0010	0.0006
angle:	23215	301143.97	-0.1119	0.3108	-0.1903	-0.0016	-0.0006	0.0002
angle:	23252	301831.05	-0.1112	0.3100	-0.1925	-0.0008	-0.0014	-0.0020
angle:	23253	301843.21	-0.1105	0.3118	-0.1945	-0.0002	0.0005	-0.0040
angle:	23254	301855.38	-0.1102	0.3124	-0.1931	0.0002	0.0010	-0.0026
angle:	23255	301867.61	-0.1102	0.3120	-0.1903	0.0002	0.0007	0.0003
angle:	23256	301879.89	-0.1105	0.3110	-0.1881	-0.0001	-0.0003	0.0024
angle:	23257	301892.20	-0.1106	0.3088	-0.1897	-0.0002	-0.0026	0.0008
angle:	23258	301904.51	-0.1109	0.3113	-0.1928	-0.0005	-0.0001	-0.0023
angle:	23259	301916.84	-0.1103	0.3126	-0.1930	0.0001	0.0012	-0.0025

angle:	23260	301929.13	-0.1102	0.3132	-0.1906	0.0001	0.0018	-0.0001
angle:	23261	301941.37	-0.1099	0.3123	-0.1909	0.0005	0.0010	-0.0004
angle:	23262	301953.58	-0.1102	0.3110	-0.1908	0.0002	-0.0003	-0.0003
angle:	23263	301965.80	-0.1106	0.3109	-0.1891	-0.0003	-0.0005	0.0014
angle:	23264	301978.06	-0.1109	0.3100	-0.1880	-0.0005	-0.0013	0.0025

Average Boresight Angles:

Roll: -0.1104 deg

Pitch: 0.3114 deg

Yaw: -0.1905 deg

Boresight Angle RMS:

Roll: 0.0008 deg

Pitch: 0.0012 deg

Yaw: 0.0016 deg

Success!!

Boresight Calculation finished