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AEROoffice V5.5 2017-01-17  
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Dongle-ID: 3-3541217

Boresight Misalignment Calculations  
26/10/2018 11:42:24

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Project: 220918\_PNOA  
Projectfile: C:\AEROofficeV51\PROYECTOS\03-PROYECTOS\_EAGLE\18\_0035\_PNOA\_CLM-NORTE\_E100\PROCESO\20180922\220918\_PNOA.aop

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Used input data:

Platform Solution: C:\AEROofficeV51\PROYECTOS\03-PROYECTOS\_EAGLE\18\_0035\_PNOA\_CLM-NORTE\_E100\PROCESO\20180922\work\220918\_PNOA.aps  
Event Mark File : C:\AEROofficeV51\PROYECTOS\03-PROYECTOS\_EAGLE\18\_0035\_PNOA\_CLM-NORTE\_E100\PROCESO\20180922\work\220918\_PNOA\_C.aom  
AT Result File : C:\AEROofficeV51\PROYECTOS\03-PROYECTOS\_EAGLE\18\_0035\_PNOA\_CLM-NORTE\_E100\POL-CAL\AT\XYZOPK.TXT  
Importformat File: C:\AEROofficeV51\FORMATOS\PTOFORMAT

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Local Coordinate System:  
UTM - ETRS89 SPH - ellipsoidal Altitude  
System defined in: built-in coordinate system  
Selected Zone: 30N  
Meridian Convergence corrected

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Loading INS Data  
562 usable events found

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

76 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:	74015	554749.41	0.012	0.000	0.051	0.012	0.000	0.051
position:	74016	554762.99	-0.041	0.001	-0.060	-0.041	0.001	-0.060
position:	74017	554776.53	-0.012	-0.022	0.034	-0.012	-0.022	0.034
position:	74018	554789.96	-0.060	-0.003	0.030	-0.060	-0.003	0.030
position:	74019	554803.24	-0.055	-0.091	0.012	-0.055	-0.091	0.012
position:	74020	554816.51	0.001	-0.028	-0.078	0.001	-0.028	-0.078
position:	74021	554829.84	-0.052	-0.061	-0.067	-0.052	-0.061	-0.067
position:	74022	554843.12	-0.070	-0.022	-0.051	-0.070	-0.022	-0.051
position:	74023	554856.38	-0.057	-0.032	-0.009	-0.057	-0.032	-0.009
position:	74024	554869.68	-0.044	-0.075	-0.070	-0.044	-0.075	-0.070
position:	74025	554882.95	-0.065	0.003	0.010	-0.065	0.003	0.010
position:	74026	554896.16	-0.077	-0.003	0.017	-0.077	-0.003	0.017
position:	74027	554909.36	-0.073	-0.009	0.031	-0.073	-0.009	0.031
position:	74028	554922.59	-0.028	-0.077	-0.107	-0.028	-0.077	-0.107
position:	74029	554935.85	-0.024	0.001	-0.061	-0.024	0.001	-0.061
position:	74001	554426.18	-0.045	0.069	0.045	-0.045	0.069	0.045
position:	74002	554439.19	0.050	0.042	-0.015	0.050	0.042	-0.015
position:	74003	554452.10	0.081	0.075	-0.055	0.081	0.075	-0.055
position:	74004	554465.01	-0.019	0.029	-0.079	-0.019	0.029	-0.079
position:	74005	554477.94	-0.054	0.043	-0.113	-0.054	0.043	-0.113
position:	74006	554490.83	-0.027	0.061	-0.018	-0.027	0.061	-0.018
position:	74007	554503.70	-0.017	0.010	-0.058	-0.017	0.010	-0.058
position:	74008	554516.53	0.014	0.036	-0.002	0.014	0.036	-0.002
position:	74009	554529.34	0.010	0.099	0.012	0.010	0.099	0.012
position:	74010	554541.98	-0.044	0.021	-0.024	-0.044	0.021	-0.024
position:	74011	554554.60	0.083	-0.062	-0.014	0.083	-0.062	-0.014
position:	74012	554567.24	-0.019	-0.001	0.016	-0.019	-0.001	0.016
position:	74013	554579.94	0.012	0.022	-0.091	0.012	0.022	-0.091
position:	74014	554592.65	0.043	0.043	0.050	0.043	0.043	0.050
position:	73900	552970.50	0.016	-0.020	0.209	0.016	-0.020	0.209
position:	73901	552984.26	0.008	0.011	0.023	0.008	0.011	0.023
position:	73902	552998.02	-0.039	-0.081	0.148	-0.039	-0.081	0.148
position:	73903	553011.65	0.001	-0.077	0.031	0.001	-0.077	0.031
position:	73904	553025.21	-0.015	-0.127	0.058	-0.015	-0.127	0.058
position:	73905	553038.75	-0.037	-0.099	-0.019	-0.037	-0.099	-0.019
position:	73906	553052.40	-0.077	-0.084	-0.003	-0.077	-0.084	-0.003
position:	73907	553066.00	0.088	-0.005	-0.054	0.088	-0.005	-0.054
position:	73908	553079.64	-0.137	-0.024	-0.021	-0.137	-0.024	-0.021
position:	73909	553093.26	0.008	-0.047	0.002	0.008	-0.047	0.002
position:	73910	553106.83	-0.016	-0.096	-0.046	-0.016	-0.096	-0.046
position:	73911	553120.44	-0.065	-0.028	-0.047	-0.065	-0.028	-0.047
position:	73912	553134.04	-0.065	0.003	0.040	-0.065	0.003	0.040
position:	73913	553147.67	-0.042	0.090	-0.076	-0.042	0.090	-0.076
position:	73914	553161.31	-0.049	-0.036	-0.125	-0.049	-0.036	-0.125
position:	73915	553174.91	-0.034	0.034	-0.017	-0.034	0.034	-0.017
position:	73884	552631.09	0.019	0.092	-0.006	0.019	0.092	-0.006
position:	73885	552644.03	0.021	0.048	-0.170	0.021	0.048	-0.170
position:	73886	552656.97	0.073	0.084	-0.037	0.073	0.084	-0.037
position:	73887	552669.93	0.113	0.078	-0.118	0.113	0.078	-0.118

position:	73888	552682.89	0.094	0.104	0.007	0.094	0.104	0.007
position:	73889	552695.77	0.121	0.024	-0.049	0.121	0.024	-0.049
position:	73890	552708.61	0.019	0.051	-0.002	0.019	0.051	-0.002
position:	73891	552721.41	0.121	0.036	0.041	0.121	0.036	0.041
position:	73892	552734.21	0.004	-0.060	0.028	0.004	-0.060	0.028
position:	73893	552746.93	0.053	0.053	0.028	0.053	0.053	0.028
position:	73894	552759.64	0.077	0.058	0.095	0.077	0.058	0.095
position:	73895	552772.40	0.059	0.007	0.069	0.059	0.007	0.069
position:	73896	552785.12	0.038	-0.007	0.054	0.038	-0.007	0.054
position:	73897	552797.80	0.120	-0.015	-0.007	0.120	-0.015	-0.007
position:	73898	552810.52	0.010	-0.018	0.076	0.010	-0.018	0.076
position:	73899	552823.24	0.014	-0.032	0.186	0.014	-0.032	0.186
position:	73791	551256.52	-0.013	-0.003	0.191	-0.013	-0.003	0.191
position:	73792	551270.56	-0.009	-0.046	0.248	-0.009	-0.046	0.248
position:	73793	551284.72	-0.010	0.028	0.137	-0.010	0.028	0.137
position:	73794	551299.02	0.015	-0.037	0.204	0.015	-0.037	0.204
position:	73795	551313.21	0.035	-0.072	0.036	0.035	-0.072	0.036
position:	73796	551327.31	0.032	0.041	0.116	0.032	0.041	0.116
position:	73797	551341.35	0.039	0.022	0.031	0.039	0.022	0.031
position:	73798	551355.28	-0.007	-0.019	0.043	-0.007	-0.019	0.043
position:	73799	551369.06	0.053	-0.015	0.072	0.053	-0.015	0.072
position:	73800	551382.94	-0.032	-0.005	-0.064	-0.032	-0.005	-0.064
position:	73801	551396.83	-0.014	0.005	-0.024	-0.014	0.005	-0.024
position:	73802	551410.76	-0.013	-0.009	-0.092	-0.013	-0.009	-0.092
position:	73803	551424.68	-0.017	0.029	-0.093	-0.017	0.029	-0.093
position:	73804	551438.56	-0.020	0.095	-0.272	-0.020	0.095	-0.272
position:	73805	551452.34	0.033	0.000	-0.165	0.033	0.000	-0.165

Average position offset:

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

Position offset RMS:

East: 0.053 m  
North: 0.052 m  
Alt: 0.089 m

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Misalignment angles for the single events [deg]:

	number	time	roll	pitch	yaw	d roll	d pitch	d yaw
angle:	74015	554749.41	-0.0589	0.1734	-0.2122	0.0015	-0.0019	0.0420
angle:	74016	554762.99	-0.0589	0.1735	-0.2133	0.0014	-0.0017	0.0409
angle:	74017	554776.53	-0.0591	0.1750	-0.2144	0.0012	-0.0003	0.0398
angle:	74018	554789.96	-0.0592	0.1755	-0.2155	0.0011	0.0002	0.0387
angle:	74019	554803.24	-0.0596	0.1761	-0.2168	0.0008	0.0008	0.0374
angle:	74020	554816.51	-0.0596	0.1750	-0.2180	0.0007	-0.0003	0.0362
angle:	74021	554829.84	-0.0607	0.1748	-0.2188	-0.0003	-0.0005	0.0354
angle:	74022	554843.12	-0.0606	0.1756	-0.2202	-0.0003	0.0003	0.0340
angle:	74023	554856.38	-0.0609	0.1759	-0.2220	-0.0006	0.0006	0.0322
angle:	74024	554869.68	-0.0610	0.1745	-0.2230	-0.0007	-0.0007	0.0312
angle:	74025	554882.95	-0.0607	0.1787	-0.2250	-0.0003	0.0034	0.0292
angle:	74026	554896.16	-0.0612	0.1771	-0.2253	-0.0009	0.0018	0.0289
angle:	74027	554909.36	-0.0621	0.1762	-0.2264	-0.0018	0.0009	0.0278
angle:	74028	554922.59	-0.0633	0.1768	-0.2274	-0.0030	0.0015	0.0268
angle:	74029	554935.85	-0.0629	0.1772	-0.2278	-0.0025	0.0020	0.0264
angle:	74001	554426.18	-0.0583	0.1728	-0.2664	0.0020	-0.0025	-0.0122
angle:	74002	554439.19	-0.0592	0.1726	-0.2680	0.0011	-0.0027	-0.0138
angle:	74003	554452.10	-0.0597	0.1726	-0.2693	0.0007	-0.0026	-0.0151
angle:	74004	554465.01	-0.0600	0.1741	-0.2705	0.0003	-0.0012	-0.0163
angle:	74005	554477.94	-0.0603	0.1737	-0.2723	0.0000	-0.0016	-0.0181
angle:	74006	554490.83	-0.0609	0.1736	-0.2740	-0.0006	-0.0017	-0.0198
angle:	74007	554503.70	-0.0605	0.1736	-0.2761	-0.0001	-0.0016	-0.0219
angle:	74008	554516.53	-0.0614	0.1737	-0.2770	-0.0011	-0.0016	-0.0228
angle:	74009	554529.34	-0.0621	0.1742	-0.2778	-0.0017	-0.0011	-0.0236
angle:	74010	554541.98	-0.0615	0.1744	-0.2792	-0.0011	-0.0009	-0.0250
angle:	74011	554554.60	-0.0616	0.1737	-0.2801	-0.0012	-0.0016	-0.0259
angle:	74012	554567.24	-0.0623	0.1744	-0.2804	-0.0020	-0.0008	-0.0262
angle:	74013	554579.94	-0.0631	0.1746	-0.2819	-0.0028	-0.0007	-0.0277
angle:	74014	554592.65	-0.0637	0.1751	-0.2824	-0.0034	-0.0002	-0.0282
angle:	73900	552970.50	-0.0559	0.1755	-0.2167	0.0044	0.0002	0.0375
angle:	73901	552984.26	-0.0552	0.1751	-0.2177	0.0051	-0.0002	0.0365
angle:	73902	552998.02	-0.0565	0.1752	-0.2187	0.0038	0.0000	0.0355
angle:	73903	553011.65	-0.0569	0.1763	-0.2203	0.0035	0.0010	0.0339
angle:	73904	553025.21	-0.0578	0.1756	-0.2219	0.0025	0.0004	0.0323
angle:	73905	553038.75	-0.0582	0.1749	-0.2248	0.0021	-0.0004	0.0294
angle:	73906	553052.40	-0.0591	0.1749	-0.2262	0.0012	-0.0004	0.0280
angle:	73907	553066.00	-0.0590	0.1769	-0.2280	0.0013	0.0016	0.0262
angle:	73908	553079.64	-0.0591	0.1756	-0.2294	0.0012	0.0003	0.0248
angle:	73909	553093.26	-0.0596	0.1764	-0.2293	0.0007	0.0011	0.0249
angle:	73910	553106.83	-0.0607	0.1751	-0.2321	-0.0004	-0.0001	0.0221
angle:	73911	553120.44	-0.0607	0.1750	-0.2350	-0.0004	-0.0003	0.0192
angle:	73912	553134.04	-0.0600	0.1759	-0.2370	0.0003	0.0006	0.0172
angle:	73913	553147.67	-0.0597	0.1764	-0.2373	0.0006	0.0011	0.0169
angle:	73914	553161.31	-0.0615	0.1770	-0.2374	-0.0012	0.0017	0.0168
angle:	73915	553174.91	-0.0619	0.1776	-0.2375	-0.0016	0.0023	0.0167
angle:	73884	552631.09	-0.0590	0.1747	-0.2731	0.0013	-0.0005	-0.0189
angle:	73885	552644.03	-0.0587	0.1757	-0.2738	0.0016	0.0004	-0.0196
angle:	73886	552656.97	-0.0588	0.1760	-0.2740	0.0016	0.0007	-0.0198
angle:	73887	552669.93	-0.0582	0.1749	-0.2751	0.0021	-0.0003	-0.0209
angle:	73888	552682.89	-0.0577	0.1748	-0.2755	0.0026	-0.0005	-0.0213
angle:	73889	552695.77	-0.0573	0.1748	-0.2755	0.0030	-0.0004	-0.0213
angle:	73890	552708.61	-0.0577	0.1760	-0.2764	0.0026	0.0007	-0.0222
angle:	73891	552721.41	-0.0580	0.1753	-0.2774	0.0023	0.0000	-0.0232
angle:	73892	552734.21	-0.0581	0.1762	-0.2776	0.0022	0.0009	-0.0234
angle:	73893	552746.93	-0.0601	0.1761	-0.2783	0.0002	0.0008	-0.0241

angle:	73894	552759.64	-0.0611	0.1766	-0.2802	-0.0008	0.0013	-0.0260
angle:	73895	552772.40	-0.0609	0.1758	-0.2808	-0.0006	0.0005	-0.0266
angle:	73896	552785.12	-0.0614	0.1759	-0.2814	-0.0011	0.0007	-0.0272
angle:	73897	552797.80	-0.0621	0.1754	-0.2815	-0.0018	0.0001	-0.0273
angle:	73898	552810.52	-0.0628	0.1767	-0.2818	-0.0025	0.0014	-0.0276
angle:	73899	552823.24	-0.0634	0.1765	-0.2824	-0.0030	0.0012	-0.0282
angle:	73791	551256.52	-0.0593	0.1752	-0.2640	0.0011	-0.0001	-0.0098
angle:	73792	551270.56	-0.0601	0.1767	-0.2646	0.0003	0.0014	-0.0104
angle:	73793	551284.72	-0.0605	0.1766	-0.2665	-0.0002	0.0013	-0.0123
angle:	73794	551299.02	-0.0613	0.1762	-0.2682	-0.0010	0.0010	-0.0140
angle:	73795	551313.21	-0.0617	0.1756	-0.2692	-0.0014	0.0004	-0.0150
angle:	73796	551327.31	-0.0613	0.1745	-0.2689	-0.0010	-0.0007	-0.0147
angle:	73797	551341.35	-0.0612	0.1744	-0.2704	-0.0009	-0.0008	-0.0162
angle:	73798	551355.28	-0.0619	0.1774	-0.2707	-0.0016	0.0021	-0.0165
angle:	73799	551369.06	-0.0622	0.1767	-0.2711	-0.0019	0.0014	-0.0169
angle:	73800	551382.94	-0.0626	0.1750	-0.2720	-0.0023	-0.0002	-0.0178
angle:	73801	551396.83	-0.0627	0.1749	-0.2737	-0.0024	-0.0003	-0.0195
angle:	73802	551410.76	-0.0628	0.1749	-0.2745	-0.0024	-0.0003	-0.0203
angle:	73803	551424.68	-0.0628	0.1743	-0.2762	-0.0025	-0.0010	-0.0220
angle:	73804	551438.56	-0.0615	0.1730	-0.2758	-0.0011	-0.0023	-0.0216
angle:	73805	551452.34	-0.0625	0.1721	-0.2779	-0.0022	-0.0032	-0.0237

Average Boresight Angles:

Roll: -0.0603 deg

Pitch: 0.1753 deg

Yaw: -0.2542 deg

Boresight Angle RMS:

Roll: 0.0019 deg

Pitch: 0.0013 deg

Yaw: 0.0255 deg

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Success!!

Boresight Calculation finished