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

Boresight Misalignment Calculations
22/06/2023 18:42:24

Project: Pol-Cal2023 Eagle100-Imu Iie
Projectfile: C:\AEROofficeV51\PROYECTOS\11_PROYECTOS_EAGLE100\

Used input data:

Platform Solution: C:\AEROofficeV51\PROYECTOS\11_PROYECTOS_EAGLE100\Pol-Cal.aps
Event Mark File : C:\AEROofficeV51\PROYECTOS\11_PROYECTOS_EAGLE100\Pol-Cal.aom
AT Result File : C:\AEROofficeV51\PROYECTOS\11_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: 30N
Meridian Convergence corrected

Loading INS Data
86 usable events found

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

86 events with matching eventnumbers found.

Position offset for the single events [m]:

	number	time	east	north	alt	d east	d north	d alt
position:	14	377589.75	0.025	0.008	-0.046	0.025	0.009	-0.029
position:	15	377592.95	0.040	0.012	-0.039	0.040	0.013	-0.022
position:	16	377596.04	0.009	0.017	-0.011	0.009	0.018	0.005
position:	17	377599.25	-0.039	0.033	-0.008	-0.039	0.034	0.009
position:	18	377602.51	0.083	-0.017	-0.027	0.082	-0.017	-0.010
position:	19	377605.65	0.061	-0.006	-0.086	0.060	-0.005	-0.070
position:	20	377608.85	-0.047	0.041	-0.088	-0.047	0.042	-0.071
position:	21	377612.05	0.003	0.079	-0.041	0.003	0.080	-0.024
position:	22	377615.24	0.011	0.006	-0.064	0.011	0.007	-0.047
position:	23	377618.54	0.020	0.005	0.009	0.020	0.006	0.026
position:	24	377621.75	0.050	0.034	0.045	0.050	0.035	0.062
position:	25	377624.93	-0.046	0.056	0.023	-0.046	0.057	0.040
position:	26	377628.13	0.022	0.042	0.005	0.021	0.043	0.022
position:	27	377631.34	0.009	0.065	0.028	0.009	0.066	0.045
position:	28	377638.21	0.008	-0.019	0.017	0.008	-0.018	0.034
position:	29	377671.50	-0.062	-0.030	-0.016	-0.063	-0.029	-0.001
position:	30	377674.91	-0.032	-0.048	-0.034	-0.032	-0.047	-0.017
position:	31	377678.30	-0.041	-0.023	-0.024	-0.041	-0.022	-0.007
position:	32	377681.70	0.037	-0.044	-0.039	0.037	-0.043	-0.022
position:	33	377685.10	-0.022	-0.028	-0.062	-0.022	-0.027	-0.045
position:	34	377688.49	-0.021	-0.036	-0.009	-0.022	-0.035	0.007
position:	35	377691.90	-0.008	-0.039	-0.052	-0.008	-0.038	-0.035
position:	36	377695.30	-0.029	-0.061	-0.080	-0.030	-0.060	-0.064
position:	37	377698.80	-0.035	-0.002	-0.009	-0.036	-0.001	0.008
position:	38	377902.19	-0.007	0.016	-0.022	-0.008	0.017	-0.005
position:	39	377905.59	0.023	-0.048	-0.030	0.022	-0.047	-0.013
position:	40	377909.02	-0.042	-0.002	-0.009	-0.042	-0.001	0.008
position:	41	377912.50	0.015	-0.009	-0.060	0.015	-0.008	-0.043
position:	42	378170.25	0.092	-0.022	-0.074	0.092	-0.021	-0.057
position:	43	378173.65	0.005	-0.028	-0.063	0.005	-0.028	-0.046
position:	44	378177.06	0.071	-0.028	-0.123	0.071	-0.027	-0.106
position:	45	378180.45	0.078	-0.011	-0.072	0.077	-0.010	-0.055
position:	46	378183.85	0.003	0.021	-0.058	0.003	0.022	-0.041
position:	47	378187.26	0.006	0.065	-0.063	0.006	0.066	-0.046
position:	48	378190.75	0.085	-0.006	-0.033	0.085	-0.005	-0.017
position:	49	378194.14	0.072	0.031	-0.033	0.071	0.032	-0.017
position:	50	378197.54	0.052	0.017	-0.018	0.051	0.018	-0.001
position:	51	378200.95	0.031	0.060	-0.008	0.030	0.061	0.009
position:	52	378204.25	0.069	0.070	-0.006	0.069	0.071	0.011
position:	53	378207.65	-0.022	0.051	-0.002	-0.022	0.052	0.015
position:	54	378211.05	-0.018	0.082	0.043	-0.019	0.083	0.060

position:	55	378214.55	0.003	0.090	0.063	0.003	0.091	0.080
position:	56	378460.53	-0.050	-0.037	0.004	-0.050	-0.036	0.021
position:	57	378464.01	-0.057	-0.013	-0.055	-0.058	-0.012	-0.039
position:	58	378467.60	-0.075	-0.043	-0.017	-0.076	-0.042	0.000
position:	59	378471.01	-0.106	-0.039	-0.019	-0.106	-0.038	-0.003
position:	60	378474.60	-0.072	-0.004	-0.054	-0.072	-0.003	-0.037
position:	61	378478.00	-0.039	-0.084	-0.008	-0.040	-0.083	0.008
position:	62	378481.50	-0.100	0.023	-0.055	-0.100	0.024	-0.038
position:	63	378484.91	0.020	-0.015	-0.029	0.020	-0.014	-0.013
position:	64	378488.30	-0.041	-0.036	-0.031	-0.041	-0.035	-0.014
position:	65	378491.71	-0.011	-0.038	-0.035	-0.011	-0.037	-0.018
position:	66	378495.20	-0.019	-0.011	-0.036	-0.019	-0.011	-0.019
position:	67	378498.60	-0.007	0.011	-0.006	-0.007	0.012	0.011
position:	68	378502.01	-0.023	-0.044	0.001	-0.023	-0.043	0.018
position:	69	378505.53	-0.002	0.018	0.031	-0.002	0.019	0.048
position:	70	378782.26	0.018	-0.008	-0.009	0.018	-0.007	0.008
position:	71	378785.65	-0.013	0.030	-0.062	-0.014	0.031	-0.045
position:	72	378789.05	-0.039	-0.008	-0.021	-0.039	-0.007	-0.004
position:	73	378792.52	-0.061	0.017	-0.024	-0.062	0.018	-0.007
position:	74	378795.85	-0.026	0.002	-0.013	-0.026	0.003	0.004
position:	75	378799.25	-0.018	-0.017	-0.058	-0.018	-0.016	-0.041
position:	76	378802.66	-0.026	0.041	-0.052	-0.026	0.042	-0.035
position:	77	378806.05	0.008	0.071	-0.018	0.008	0.072	-0.002
position:	78	378809.53	-0.008	0.116	-0.068	-0.008	0.116	-0.051
position:	79	378812.95	-0.048	-0.019	-0.011	-0.048	-0.018	0.006
position:	80	378816.35	-0.010	-0.032	-0.047	-0.010	-0.031	-0.030
position:	81	378819.76	-0.029	-0.012	-0.009	-0.029	-0.011	0.008
position:	82	378823.25	-0.024	0.027	0.022	-0.024	0.028	0.039
position:	83	378826.64	0.017	-0.018	0.034	0.017	-0.017	0.051
position:	84	378830.14	-0.019	-0.088	-0.015	-0.020	-0.087	0.001
position:	85	379099.40	0.047	-0.025	-0.014	0.046	-0.024	0.003
position:	86	379102.81	0.039	0.042	0.071	0.038	0.043	0.088
position:	87	379106.20	0.091	-0.054	0.046	0.091	-0.053	0.062
position:	88	379109.60	-0.029	-0.049	0.001	-0.029	-0.048	0.018
position:	89	379113.00	0.027	-0.080	0.041	0.027	-0.079	0.058
position:	90	379116.41	0.005	-0.054	0.022	0.004	-0.053	0.039
position:	91	379119.91	0.062	0.005	-0.001	0.062	0.006	0.016
position:	92	379123.30	-0.008	0.061	-0.040	-0.008	0.062	-0.023
position:	93	379126.79	0.034	-0.065	0.030	0.034	-0.064	0.047
position:	94	379130.20	0.020	-0.071	0.028	0.020	-0.070	0.045
position:	95	379133.70	0.003	-0.029	-0.036	0.003	-0.028	-0.020
position:	96	379137.10	0.024	0.027	0.031	0.024	0.028	0.048
position:	97	379140.51	0.025	-0.029	0.077	0.025	-0.028	0.094
position:	98	379143.89	0.026	0.024	0.051	0.025	0.024	0.068
position:	99	379147.30	0.011	0.035	0.082	0.011	0.036	0.099

Average position offset:

East: 0.000 m
North: -0.001 m
Alt: -0.017 m

Position offset RMS:

East: 0.042 m
North: 0.042 m
Alt: 0.040 m

Misalignment angles for the single events [deg]:

	number	time	roll	pitch	yaw	d roll	d pitch	d yaw
angle:	14	377589.75	0.0757	0.2961	-0.2463	0.0004	-0.0018	-0.0006
angle:	15	377592.95	0.0759	0.2958	-0.2468	0.0006	-0.0021	-0.0012
angle:	16	377596.04	0.0751	0.2965	-0.2468	-0.0002	-0.0014	-0.0012
angle:	17	377599.25	0.0752	0.2978	-0.2473	-0.0001	-0.0001	-0.0016
angle:	18	377602.51	0.0754	0.2959	-0.2465	0.0001	-0.0019	-0.0008
angle:	19	377605.65	0.0758	0.2969	-0.2468	0.0005	-0.0009	-0.0011
angle:	20	377608.85	0.0748	0.2990	-0.2462	-0.0005	0.0012	-0.0006
angle:	21	377612.05	0.0741	0.2990	-0.2463	-0.0011	0.0011	-0.0007
angle:	22	377615.24	0.0753	0.2991	-0.2468	0.0000	0.0013	-0.0011
angle:	23	377618.54	0.0753	0.2992	-0.2475	0.0000	0.0013	-0.0018
angle:	24	377621.75	0.0746	0.2983	-0.2474	-0.0007	0.0004	-0.0018
angle:	25	377624.93	0.0748	0.3010	-0.2488	-0.0005	0.0032	-0.0031
angle:	26	377628.13	0.0763	0.2998	-0.2477	0.0010	0.0019	-0.0020
angle:	27	377631.34	0.0757	0.3005	-0.2477	0.0004	0.0026	-0.0020
angle:	28	377868.21	0.0736	0.2976	-0.2457	-0.0017	-0.0003	0.0000
angle:	29	377871.50	0.0729	0.2966	-0.2461	-0.0024	-0.0012	-0.0004
angle:	30	377874.91	0.0734	0.2974	-0.2463	-0.0019	-0.0005	-0.0006
angle:	31	377878.30	0.0735	0.2973	-0.2466	-0.0017	-0.0006	-0.0009
angle:	32	377881.70	0.0730	0.2992	-0.2462	-0.0023	0.0014	-0.0005
angle:	33	377885.10	0.0731	0.2981	-0.2456	-0.0021	0.0002	0.0000
angle:	34	377888.49	0.0736	0.2987	-0.2465	-0.0017	0.0008	-0.0008
angle:	35	377891.90	0.0737	0.2994	-0.2464	-0.0016	0.0015	-0.0007
angle:	36	377895.30	0.0728	0.3000	-0.2459	-0.0024	0.0022	-0.0002
angle:	37	377898.80	0.0730	0.2998	-0.2468	-0.0023	0.0020	-0.0012
angle:	38	377902.19	0.0731	0.3009	-0.2473	-0.0021	0.0031	-0.0016
angle:	39	377905.59	0.0720	0.3018	-0.2472	-0.0033	0.0040	-0.0015
angle:	40	377909.02	0.0728	0.3006	-0.2477	-0.0025	0.0027	-0.0020
angle:	41	377912.50	0.0731	0.3019	-0.2477	-0.0022	0.0040	-0.0020
angle:	42	378170.25	0.0748	0.2942	-0.2476	-0.0005	-0.0036	-0.0019
angle:	43	378173.65	0.0753	0.2958	-0.2473	0.0001	-0.0021	-0.0016
angle:	44	378177.06	0.0749	0.2950	-0.2477	-0.0004	-0.0029	-0.0020
angle:	45	378180.45	0.0747	0.2951	-0.2472	-0.0006	-0.0028	-0.0015

angle:	46	378183.85	0.0741	0.2966	-0.2468	-0.0012	-0.0013	-0.0011
angle:	47	378187.26	0.0729	0.2970	-0.2471	-0.0024	-0.0009	-0.0014
angle:	48	378190.75	0.0742	0.2957	-0.2466	-0.0011	-0.0022	-0.0009
angle:	49	378194.14	0.0737	0.2960	-0.2464	-0.0016	-0.0019	-0.0007
angle:	50	378197.54	0.0745	0.2965	-0.2466	-0.0008	-0.0014	-0.0009
angle:	51	378200.95	0.0735	0.2974	-0.2472	-0.0018	-0.0005	-0.0015
angle:	52	378204.25	0.0732	0.2969	-0.2471	-0.0021	-0.0010	-0.0014
angle:	53	378207.65	0.0733	0.2988	-0.2472	-0.0019	0.0009	-0.0016
angle:	54	378211.05	0.0729	0.2988	-0.2463	-0.0024	0.0009	-0.0006
angle:	55	378214.55	0.0728	0.2988	-0.2460	-0.0025	0.0010	-0.0003
angle:	56	378460.53	0.0760	0.2968	-0.2434	0.0007	-0.0011	0.0023
angle:	57	378464.01	0.0761	0.2961	-0.2428	0.0008	-0.0018	0.0029
angle:	58	378467.60	0.0748	0.2965	-0.2436	-0.0004	-0.0014	0.0021
angle:	59	378471.01	0.0755	0.2961	-0.2430	0.0002	-0.0018	0.0027
angle:	60	378474.60	0.0765	0.2970	-0.2424	0.0012	-0.0009	0.0033
angle:	61	378478.00	0.0747	0.2977	-0.2418	-0.0006	-0.0001	0.0039
angle:	62	378481.50	0.0764	0.2971	-0.2418	0.0012	-0.0008	0.0039
angle:	63	378484.91	0.0757	0.2998	-0.2413	0.0004	0.0020	0.0044
angle:	64	378488.30	0.0754	0.2987	-0.2423	0.0002	0.0008	0.0034
angle:	65	378491.71	0.0750	0.2990	-0.2424	-0.0003	0.0012	0.0033
angle:	66	378495.20	0.0757	0.2992	-0.2429	0.0005	0.0014	0.0028
angle:	67	378498.60	0.0760	0.2989	-0.2426	0.0007	0.0010	0.0030
angle:	68	378502.01	0.0748	0.2989	-0.2420	-0.0005	0.0010	0.0037
angle:	69	378505.53	0.0760	0.2999	-0.2422	0.0007	0.0020	0.0035
angle:	70	378782.26	0.0781	0.2947	-0.2453	0.0028	-0.0031	0.0003
angle:	71	378785.65	0.0773	0.2940	-0.2449	0.0020	-0.0039	0.0007
angle:	72	378789.05	0.0768	0.2953	-0.2456	0.0016	-0.0026	0.0001
angle:	73	378792.52	0.0763	0.2953	-0.2451	0.0010	-0.0026	0.0006
angle:	74	378795.85	0.0769	0.2959	-0.2452	0.0016	-0.0020	0.0005
angle:	75	378799.25	0.0772	0.2967	-0.2447	0.0019	-0.0011	0.0009
angle:	76	378802.66	0.0770	0.2960	-0.2456	0.0017	-0.0019	0.0001
angle:	77	378806.05	0.0776	0.2955	-0.2457	0.0023	-0.0024	0.0000
angle:	78	378809.53	0.0774	0.2951	-0.2457	0.0021	-0.0028	0.0000
angle:	79	378812.95	0.0771	0.2980	-0.2452	0.0018	0.0001	0.0004
angle:	80	378816.35	0.0776	0.2994	-0.2453	0.0023	0.0015	0.0003
angle:	81	378819.76	0.0770	0.2994	-0.2458	0.0017	0.0015	-0.0001
angle:	82	378823.25	0.0772	0.2990	-0.2455	0.0019	0.0011	0.0002
angle:	83	378826.64	0.0781	0.3003	-0.2461	0.0028	0.0024	-0.0004
angle:	84	378830.14	0.0775	0.3018	-0.2454	0.0022	0.0039	0.0003
angle:	85	379099.40	0.0780	0.2937	-0.2469	0.0027	-0.0042	-0.0012
angle:	86	379102.81	0.0785	0.2953	-0.2463	0.0032	-0.0026	-0.0007
angle:	87	379106.20	0.0776	0.2943	-0.2456	0.0023	-0.0036	0.0000
angle:	88	379109.60	0.0795	0.2956	-0.2456	0.0042	-0.0023	0.0001
angle:	89	379113.00	0.0776	0.2958	-0.2461	0.0023	-0.0020	-0.0004
angle:	90	379116.41	0.0774	0.2965	-0.2454	0.0021	-0.0014	0.0003
angle:	91	379119.91	0.0767	0.2980	-0.2454	0.0014	0.0001	0.0003
angle:	92	379123.30	0.0775	0.3000	-0.2457	0.0022	0.0021	0.0000
angle:	93	379126.79	0.0759	0.2979	-0.2460	0.0006	0.0001	-0.0003
angle:	94	379130.20	0.0754	0.2982	-0.2456	0.0001	0.0003	0.0001
angle:	95	379133.70	0.0751	0.2999	-0.2451	-0.0002	0.0020	0.0006
angle:	96	379137.10	0.0739	0.3012	-0.2450	-0.0013	0.0033	0.0007
angle:	97	379140.51	0.0740	0.3007	-0.2455	-0.0013	0.0029	0.0002
angle:	98	379143.89	0.0736	0.3024	-0.2455	-0.0017	0.0045	0.0002
angle:	99	379147.30	0.0738	0.3026	-0.2454	-0.0015	0.0047	0.0003

Average Boresight Angles:

Roll: 0.0753 deg

Pitch: 0.2979 deg

Yaw: -0.2457 deg

Boresight Angle RMS:

Roll: 0.0017 deg

Pitch: 0.0021 deg

Yaw: 0.0016 deg

Success!!

Boresight Calculation finished