
AEROoffice V5.1f 2010-01-07
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Dongle-ID: AO-0365
Owner: SPASA, Spain

Boresight Misalignment Calculations
14/06/2017 15:22:16

Project: 0037_20170608
Projectfile: C:\AEROofficeV51\PROYECTOS\02-PROYECTOS_XP-WA\17_0037_ICV\PROCESO\20170608\0037_20170608.aop

Used input data:

Platform Solution: C:\AEROofficeV51\PROYECTOS\02-PROYECTOS_XP-WA\17_0037_ICV\PROCESO\20170608\work\0037_20170608.aps
Event Mark File : C:\AEROofficeV51\PROYECTOS\02-PROYECTOS_XP-WA\17_0037_ICV\PROCESO\20170608\work\0037_20170608_C.aom
AT Result File : C:\AEROofficeV51\PROYECTOS\02-PROYECTOS_XP-WA\17_0037_ICV\AT_XYZOPK\XYZOPK_XP-WA_JUNIO_2017.TXT
Importformat File: C:\AEROofficeV51\FORMATOS\PTOFORMAT

Coordinate system scalefactor correction for height applied
Used Height above ground: 2585.00 meter

Local Coordinate System:
UTM - WGS84 SPH - ellispoidal Altitude
Selected Zone: 30N
Meridian Convergence corrected

Loading INS Data
1406 usable events found

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

95 events with matching eventnumbers found.

Position offset for the single events [m]:

	number	time	east	north	alt	d east	d north	d alt
position:	395	390226.79	-0.060	-0.013	0.095	-0.060	-0.013	0.095
position:	396	390233.18	-0.079	-0.049	0.074	-0.079	-0.049	0.074
position:	397	390239.69	-0.078	-0.060	0.075	-0.078	-0.060	0.076
position:	398	390246.08	-0.076	-0.013	0.084	-0.076	-0.013	0.084
position:	399	390252.58	-0.096	0.002	0.042	-0.096	0.002	0.042
position:	400	390259.09	-0.112	-0.024	0.039	-0.112	-0.024	0.039
position:	401	390265.38	-0.120	-0.039	0.023	-0.120	-0.039	0.024
position:	402	390271.79	-0.094	-0.041	0.027	-0.094	-0.041	0.027
position:	403	390278.17	-0.126	-0.019	0.042	-0.126	-0.019	0.042
position:	404	390284.78	-0.124	0.009	0.020	-0.124	0.009	0.020
position:	405	390291.38	-0.109	-0.012	0.011	-0.109	-0.012	0.011
position:	406	390298.08	-0.133	-0.005	0.003	-0.133	-0.005	0.003
position:	407	390304.58	-0.096	0.027	-0.013	-0.096	0.027	-0.013
position:	408	390311.17	-0.115	-0.030	-0.022	-0.115	-0.030	-0.022
position:	409	390317.37	-0.083	0.003	-0.060	-0.083	0.003	-0.060
position:	410	390323.57	-0.074	-0.037	-0.061	-0.074	-0.037	-0.061
position:	411	390329.68	-0.002	-0.089	-0.056	-0.002	-0.089	-0.056
position:	357	389871.35	0.130	-0.090	-0.016	0.130	-0.090	-0.016
position:	358	389878.45	0.118	-0.071	-0.020	0.118	-0.071	-0.020
position:	359	389885.48	0.129	-0.046	-0.031	0.129	-0.046	-0.031
position:	360	389892.46	0.082	-0.081	-0.007	0.082	-0.081	-0.007
position:	361	389899.64	0.135	0.010	0.019	0.135	0.010	0.019
position:	362	389907.14	0.117	-0.014	0.011	0.117	-0.014	0.011
position:	363	389914.54	0.146	-0.009	0.020	0.146	-0.009	0.020
position:	364	389921.83	0.110	-0.015	0.005	0.110	-0.015	0.005
position:	365	389929.45	0.107	0.065	0.013	0.107	0.065	0.013
position:	366	389936.84	0.095	-0.025	0.000	0.095	-0.025	0.000
position:	367	389944.46	0.146	-0.020	0.008	0.146	-0.020	0.008
position:	368	389952.04	0.153	0.037	0.011	0.153	0.037	0.011
position:	369	389959.53	0.093	0.038	-0.021	0.093	0.038	-0.021
position:	370	389966.93	0.094	0.068	-0.005	0.094	0.068	-0.005
position:	371	389974.02	0.052	0.076	-0.003	0.051	0.076	-0.003
position:	372	389981.02	0.054	0.066	-0.039	0.054	0.066	-0.039
position:	236	388796.11	-0.062	0.082	-0.012	-0.062	0.082	-0.012
position:	237	388802.48	-0.111	0.114	-0.022	-0.111	0.114	-0.022
position:	238	388808.92	-0.064	0.135	-0.038	-0.064	0.135	-0.038
position:	239	388815.42	-0.122	0.131	-0.026	-0.122	0.131	-0.026
position:	240	388821.91	-0.099	0.102	-0.038	-0.099	0.102	-0.038
position:	241	388828.52	-0.094	0.080	0.013	-0.094	0.080	0.013

position:	242	388834.91	-0.084	0.049	0.017	-0.084	0.049	0.017
position:	243	388841.48	-0.041	0.057	0.000	-0.041	0.057	0.000
position:	244	388847.80	-0.116	0.056	0.009	-0.116	0.056	0.009
position:	245	388854.30	-0.078	0.052	0.006	-0.078	0.052	0.006
position:	246	388860.91	-0.121	0.020	0.011	-0.121	0.020	0.011
position:	247	388867.60	-0.077	0.037	0.017	-0.077	0.037	0.017
position:	248	388874.10	-0.074	0.011	-0.009	-0.074	0.011	-0.009
position:	249	388880.60	-0.090	0.041	-0.028	-0.090	0.041	-0.028
position:	250	388887.09	-0.075	-0.008	0.003	-0.075	-0.008	0.003
position:	251	388893.61	-0.045	-0.016	-0.050	-0.045	-0.016	-0.050
position:	192	388346.39	0.099	-0.095	0.039	0.099	-0.095	0.039
position:	193	388354.49	0.111	-0.100	0.023	0.111	-0.100	0.023
position:	194	388362.49	0.123	-0.093	0.027	0.123	-0.093	0.027
position:	195	388370.51	0.103	-0.099	0.021	0.103	-0.099	0.021
position:	196	388378.39	0.152	-0.035	0.006	0.152	-0.035	0.007
position:	197	388386.38	0.168	-0.055	-0.008	0.168	-0.055	-0.008
position:	198	388394.08	0.131	-0.017	0.013	0.131	-0.017	0.013
position:	199	388401.69	0.146	-0.061	0.007	0.146	-0.061	0.007
position:	200	388409.38	0.143	-0.002	0.026	0.143	-0.002	0.026
position:	201	388416.97	0.132	0.004	-0.002	0.132	0.004	-0.002
position:	202	388424.78	0.166	0.021	-0.018	0.166	0.021	-0.018
position:	203	388432.67	0.153	0.029	-0.026	0.153	0.029	-0.026
position:	204	388440.68	0.146	-0.005	-0.034	0.146	-0.005	-0.034
position:	205	388448.38	0.128	0.016	-0.062	0.128	0.016	-0.062
position:	206	388455.90	0.094	-0.004	-0.094	0.094	-0.004	-0.094
position:	87	387368.47	-0.072	0.085	-0.057	-0.072	0.085	-0.057
position:	88	387375.05	-0.181	0.058	-0.060	-0.181	0.058	-0.060
position:	89	387381.75	-0.185	0.051	-0.039	-0.185	0.051	-0.039
position:	90	387388.54	-0.209	0.043	-0.038	-0.209	0.043	-0.038
position:	91	387395.49	-0.208	-0.009	-0.031	-0.208	-0.009	-0.031
position:	92	387402.65	-0.202	0.073	-0.039	-0.202	0.073	-0.039
position:	93	387409.84	-0.212	0.060	-0.007	-0.212	0.060	-0.007
position:	94	387417.23	-0.226	0.018	0.019	-0.226	0.018	0.019
position:	95	387424.54	-0.209	0.038	0.039	-0.209	0.038	0.039
position:	96	387431.74	-0.237	0.016	0.018	-0.237	0.016	0.018
position:	97	387438.83	-0.263	0.011	0.011	-0.263	0.011	0.012
position:	98	387446.03	-0.194	0.028	0.024	-0.194	0.028	0.024
position:	99	387453.23	-0.269	0.015	0.057	-0.269	0.015	0.057
position:	100	387460.54	-0.183	-0.022	0.024	-0.183	-0.022	0.024
position:	101	387467.73	-0.166	-0.056	-0.038	-0.166	-0.056	-0.038
position:	42	386915.22	0.046	-0.036	0.058	0.046	-0.036	0.058
position:	43	386922.92	0.094	0.004	0.046	0.094	0.004	0.046
position:	44	386930.62	0.138	-0.006	0.055	0.138	-0.006	0.055
position:	45	386938.32	0.088	-0.019	0.030	0.088	-0.019	0.030
position:	46	386945.91	0.125	-0.022	0.047	0.125	-0.022	0.047
position:	47	386953.72	0.128	-0.024	0.011	0.128	-0.024	0.011
position:	48	386961.31	0.163	-0.040	0.023	0.163	-0.040	0.023
position:	49	386968.82	0.154	-0.020	0.011	0.154	-0.020	0.011
position:	50	386976.31	0.158	-0.079	0.031	0.158	-0.079	0.031
position:	51	386983.90	0.150	-0.064	0.009	0.150	-0.064	0.009
position:	52	386991.80	0.194	-0.069	0.000	0.194	-0.069	0.000
position:	53	386999.30	0.185	-0.039	-0.011	0.185	-0.039	-0.011
position:	54	387006.80	0.171	-0.005	-0.020	0.171	-0.005	-0.020
position:	55	387014.10	0.185	-0.017	-0.045	0.185	-0.017	-0.045
position:	56	387021.30	0.110	-0.026	-0.086	0.110	-0.026	-0.086
position:	57	387028.50	0.102	0.010	-0.080	0.102	0.010	-0.080

Average position offset:

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

Position offset RMS:

East:	0.135	m
North:	0.052	m
Alt:	0.037	m

Misalignment angles for the single events [deg]:

	number	time	roll	pitch	yaw	d roll	d pitch	d yaw
angle:	395	390226.79	0.0611	0.1552	-0.1642	0.0003	-0.0009	0.0069
angle:	396	390233.18	0.0606	0.1551	-0.1636	-0.0001	-0.0010	0.0075
angle:	397	390239.69	0.0596	0.1553	-0.1630	-0.0011	-0.0008	0.0082
angle:	398	390246.08	0.0583	0.1552	-0.1625	-0.0025	-0.0009	0.0087
angle:	399	390252.58	0.0578	0.1554	-0.1623	-0.0030	-0.0007	0.0088
angle:	400	390259.09	0.0581	0.1559	-0.1637	-0.0027	-0.0002	0.0075
angle:	401	390265.38	0.0576	0.1558	-0.1627	-0.0031	-0.0004	0.0085
angle:	402	390271.79	0.0570	0.1549	-0.1618	-0.0037	-0.0013	0.0094
angle:	403	390278.17	0.0566	0.1557	-0.1632	-0.0041	-0.0004	0.0079
angle:	404	390284.78	0.0567	0.1557	-0.1635	-0.0040	-0.0004	0.0077
angle:	405	390291.38	0.0561	0.1561	-0.1628	-0.0047	0.0000	0.0083
angle:	406	390298.08	0.0553	0.1559	-0.1630	-0.0055	-0.0003	0.0082
angle:	407	390304.58	0.0542	0.1562	-0.1629	-0.0066	0.0000	0.0083
angle:	408	390311.17	0.0553	0.1557	-0.1618	-0.0055	-0.0004	0.0093
angle:	409	390317.37	0.0548	0.1554	-0.1628	-0.0059	-0.0007	0.0084
angle:	410	390323.57	0.0547	0.1555	-0.1617	-0.0061	-0.0006	0.0094
angle:	411	390329.68	0.0535	0.1551	-0.1601	-0.0072	-0.0010	0.0111
angle:	357	389871.35	0.0622	0.1565	-0.1716	0.0015	0.0004	-0.0004
angle:	358	389878.45	0.0615	0.1575	-0.1718	0.0008	0.0014	-0.0007

angle:	359	389885.48	0.0627	0.1565	-0.1721	0.0020	0.0004	-0.0009
angle:	360	389892.46	0.0614	0.1562	-0.1727	0.0007	0.0000	-0.0016
angle:	361	389899.64	0.0616	0.1574	-0.1720	0.0009	0.0013	-0.0008
angle:	362	389907.14	0.0608	0.1571	-0.1730	0.0001	0.0010	-0.0018
angle:	363	389914.54	0.0613	0.1571	-0.1740	0.0005	0.0010	-0.0029
angle:	364	389921.83	0.0612	0.1561	-0.1737	0.0005	0.0000	-0.0025
angle:	365	389929.45	0.0633	0.1561	-0.1741	0.0026	0.0000	-0.0029
angle:	366	389936.84	0.0604	0.1554	-0.1749	-0.0003	-0.0007	-0.0037
angle:	367	389944.46	0.0609	0.1570	-0.1756	0.0001	0.0009	-0.0044
angle:	368	389952.04	0.0603	0.1571	-0.1754	-0.0004	0.0010	-0.0042
angle:	369	389959.53	0.0601	0.1559	-0.1758	-0.0006	-0.0002	-0.0046
angle:	370	389966.93	0.0607	0.1549	-0.1746	0.0000	-0.0012	-0.0035
angle:	371	389974.02	0.0588	0.1552	-0.1743	-0.0019	-0.0009	-0.0031
angle:	372	389981.02	0.0588	0.1556	-0.1735	-0.0020	-0.0005	-0.0024
angle:	236	388796.11	0.0639	0.1570	-0.1701	0.0031	0.0009	0.0011
angle:	237	388802.48	0.0633	0.1567	-0.1693	0.0026	0.0006	0.0019
angle:	238	388808.92	0.0631	0.1554	-0.1691	0.0024	-0.0007	0.0021
angle:	239	388815.42	0.0630	0.1564	-0.1688	0.0023	0.0003	0.0024
angle:	240	388821.91	0.0631	0.1568	-0.1678	0.0024	0.0007	0.0034
angle:	241	388828.52	0.0626	0.1573	-0.1670	0.0019	0.0012	0.0042
angle:	242	388834.91	0.0632	0.1573	-0.1677	0.0025	0.0011	0.0035
angle:	243	388841.48	0.0633	0.1558	-0.1683	0.0026	-0.0003	0.0029
angle:	244	388847.80	0.0632	0.1581	-0.1679	0.0025	0.0020	0.0032
angle:	245	388854.30	0.0626	0.1556	-0.1674	0.0018	-0.0005	0.0037
angle:	246	388860.91	0.0625	0.1575	-0.1667	0.0018	0.0014	0.0045
angle:	247	388867.60	0.0628	0.1563	-0.1679	0.0021	0.0001	0.0033
angle:	248	388874.10	0.0619	0.1556	-0.1668	0.0012	-0.0006	0.0043
angle:	249	388880.60	0.0623	0.1550	-0.1669	0.0016	-0.0011	0.0043
angle:	250	388887.09	0.0614	0.1561	-0.1650	0.0007	0.0000	0.0061
angle:	251	388893.61	0.0619	0.1541	-0.1652	0.0012	-0.0020	0.0060
angle:	192	388346.39	0.0628	0.1580	-0.1755	0.0020	0.0019	-0.0043
angle:	193	388354.49	0.0632	0.1569	-0.1752	0.0025	0.0008	-0.0041
angle:	194	388362.49	0.0623	0.1578	-0.1767	0.0016	0.0016	-0.0055
angle:	195	388370.51	0.0609	0.1564	-0.1778	0.0002	0.0003	-0.0067
angle:	196	388378.39	0.0627	0.1584	-0.1772	0.0020	0.0023	-0.0060
angle:	197	388386.38	0.0621	0.1576	-0.1785	0.0014	0.0015	-0.0074
angle:	198	388394.08	0.0632	0.1567	-0.1782	0.0024	0.0006	-0.0071
angle:	199	388401.69	0.0621	0.1566	-0.1787	0.0014	0.0005	-0.0075
angle:	200	388409.38	0.0635	0.1572	-0.1782	0.0028	0.0011	-0.0070
angle:	201	388416.97	0.0632	0.1571	-0.1791	0.0025	0.0010	-0.0080
angle:	202	388424.78	0.0626	0.1580	-0.1793	0.0019	0.0019	-0.0081
angle:	203	388432.67	0.0627	0.1554	-0.1799	0.0019	-0.0007	-0.0087
angle:	204	388440.68	0.0610	0.1570	-0.1809	0.0003	0.0009	-0.0097
angle:	205	388448.38	0.0620	0.1552	-0.1812	0.0013	-0.0009	-0.0100
angle:	206	388455.90	0.0616	0.1529	-0.1814	0.0009	-0.0032	-0.0102
angle:	87	387368.47	0.0622	0.1568	-0.1615	0.0015	0.0007	0.0097
angle:	88	387375.05	0.0625	0.1555	-0.1627	0.0017	-0.0006	0.0084
angle:	89	387381.75	0.0632	0.1554	-0.1614	0.0025	-0.0007	0.0098
angle:	90	387388.54	0.0619	0.1556	-0.1619	0.0011	-0.0006	0.0092
angle:	91	387395.49	0.0627	0.1554	-0.1602	0.0020	-0.0007	0.0110
angle:	92	387402.65	0.0609	0.1547	-0.1611	0.0002	-0.0014	0.0101
angle:	93	387409.84	0.0613	0.1550	-0.1610	0.0005	-0.0011	0.0101
angle:	94	387417.23	0.0611	0.1552	-0.1613	0.0004	-0.0009	0.0099
angle:	95	387424.54	0.0603	0.1547	-0.1602	-0.0004	-0.0014	0.0109
angle:	96	387431.74	0.0608	0.1539	-0.1605	0.0000	-0.0022	0.0107
angle:	97	387438.83	0.0612	0.1540	-0.1611	0.0005	-0.0021	0.0100
angle:	98	387446.03	0.0618	0.1537	-0.1597	0.0011	-0.0024	0.0115
angle:	99	387453.23	0.0612	0.1552	-0.1601	0.0005	-0.0009	0.0110
angle:	100	387460.54	0.0623	0.1517	-0.1601	0.0015	-0.0044	0.0111
angle:	101	387467.73	0.0613	0.1520	-0.1592	0.0006	-0.0041	0.0120
angle:	42	386915.22	0.0612	0.1579	-0.1842	0.0005	0.0018	-0.0130
angle:	43	386922.92	0.0605	0.1580	-0.1838	-0.0003	0.0019	-0.0126
angle:	44	386930.62	0.0610	0.1571	-0.1846	0.0003	0.0010	-0.0134
angle:	45	386938.32	0.0606	0.1564	-0.1829	-0.0001	0.0003	-0.0118
angle:	46	386945.91	0.0610	0.1583	-0.1845	0.0003	0.0021	-0.0134
angle:	47	386953.72	0.0597	0.1575	-0.1836	-0.0010	0.0014	-0.0125
angle:	48	386961.31	0.0596	0.1579	-0.1829	-0.0012	0.0018	-0.0117
angle:	49	386968.82	0.0605	0.1580	-0.1841	-0.0002	0.0019	-0.0129
angle:	50	386976.31	0.0585	0.1575	-0.1837	-0.0022	0.0014	-0.0125
angle:	51	386983.90	0.0591	0.1571	-0.1851	-0.0016	0.0010	-0.0139
angle:	52	386991.80	0.0593	0.1587	-0.1840	-0.0014	0.0026	-0.0128
angle:	53	386999.30	0.0602	0.1573	-0.1844	-0.0005	0.0012	-0.0132
angle:	54	387006.80	0.0603	0.1564	-0.1850	-0.0004	0.0003	-0.0138
angle:	55	387014.10	0.0599	0.1563	-0.1845	-0.0009	0.0002	-0.0134
angle:	56	387021.30	0.0595	0.1546	-0.1840	-0.0013	-0.0015	-0.0128
angle:	57	387028.50	0.0604	0.1545	-0.1832	-0.0004	-0.0016	-0.0120

Average Boresight Angles:

Roll: 0.0607 deg

Pitch: 0.1561 deg

Yaw: -0.1712 deg

Boresight Angle RMS:

Roll: 0.0023 deg

Pitch: 0.0013 deg

Yaw: 0.0084 deg

Success!!

Boresight Calculation finished