

BM1 Measurement Differences from Nominal Values (Table 1 of 3)

BM1	US Face yaw (mrads)	US Face pitch (mrads)	DS Port yaw (mrads)	DS Port pitch (mrads)	DS Suppt yaw (mrads)	DS Suppt pitch (mrads)	DS Flange yaw (mrads)	DS Flange pitch (mrads)	Length Tangent (mils)	Length Orbit (mils)
001	4.9	6.4	-1.5	6.1	-1.8	7.1	-6.8	9.0	0	-81
002	4.5	-7.7	-2.0	-5.3	-2.0	-11.0	-7.6	-12.2	11	-79
003	0.4	4.3	-1.6	1.0	-1.2	-0.1	-5.0	-0.6	6	-49
004	2.2	-1.6	-0.4	0.1	-0.8	-0.6	-5.9	-0.4	1	-71
005	1.2	-7.1	-1.2	4.0	-0.6	-1.1	-6.9	1.8	20	-63
006	2.7	0.5	-0.8	1.1	-0.8	2.9	-6.7	3.4	8	-72
007	2.9	-2.3	-0.1	2.9	-0.8	1.6	-6.1	0.7	3	-70
008	3.1	-2.3	-0.6	3.6	-1.0	3.7	-5.2	3.5	-8	-73
009	1.7	-4.6	-0.3	1.7	-0.5	1.0	-4.6	3.2	7	-50
010	2.0	-3.7	-1.3	0.1	-0.6	-1.2	-7.2	-1.1	11	-75
011	2.4	3.9	-0.7	4.0	-0.9	5.7	-6.4	5.9	9	-68
012	2.1	3.5	0.8	5.0	-0.5	6.3	-7.2	3.4	14	-72
013	2.8	-10.9	-1.3	-5.3	-1.0	-7.7	-5.4	-9.9	-5	-71
014	1.8	-6.4	-1.0	-4.5	-0.7	-4.1	-6.1	-2.3	16	-57
015	2.0	8.0	1.3	-3.1	-0.4	2.0	-6.0	2.0	10	-62
Average	2.4	-1.3	-0.7	0.8	-0.9	0.3	-6.2	0.4	6.9	-68
Std	± 1.1	± 5.6	± 0.9	± 3.8	± 0.5	± 5.0	± 0.9	± 5.5	± 7.6	± 10

Note: All values manually derived from posted chamber web-pages. Caveat emptor dude.

BM1 Measurement Differences from Nominal Values (Table 2 of 3)

BM1	TB6z (mils)	TB6x (mils)	TB6y (mils)	DS Suppt x-datum (mils)	DS Flange x-datum (mils)
001	-25	18	24	-1	2
002	-39	14	-19	12	16
003	-9	20	63	-3	-2
004	-30	8	43	16	19
005	-23	22	5	6	9
006	-26	13	39	12	15
007	-15	-13	46	23	26
008	-27	-4	34	-12	-9
009	-20	-11	59	23	26
010	-9	-22	48	14	18
011	-7	9	25	13	17
012	-26	12	26	9	13
013	-38	0	98	6	7
014	6	-32	78	11	14
015	-26	-21	69	11	15
Average	-21	1	43	9	12
Std	± 12	± 17	± 29	± 9	± 10

Note: All values manually derived from posted chamber web-pages. Caveat emptor dude.

BM1 Measurements for the UPSTREAM FLANGE (Table 3 of 3)

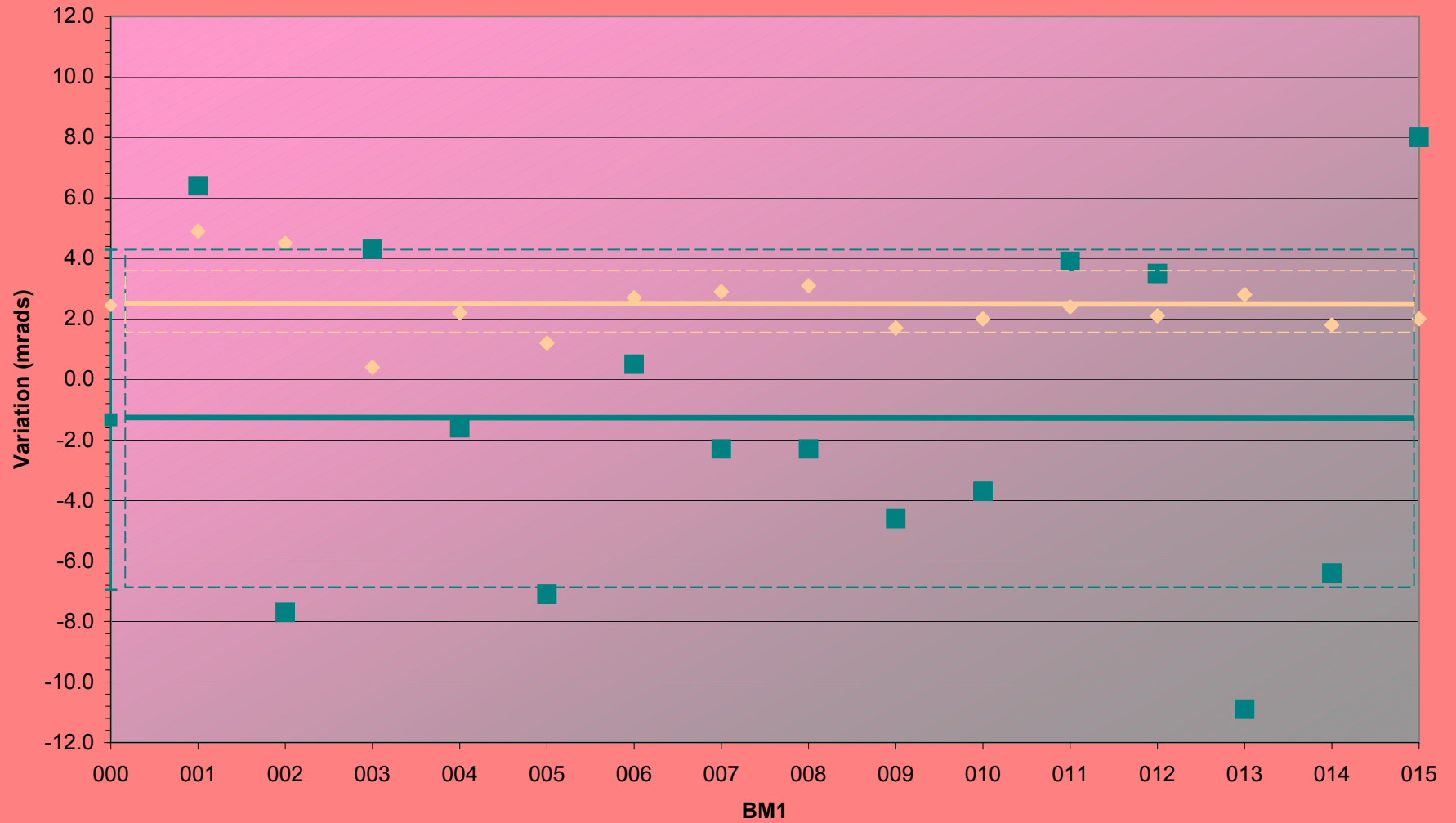
BM1 US Flange	Yaw (mrads)	Pitch (mrads)	X (mils)	Y (mils)
001	6.0	7.9	1.851	0.006
002				
003	1.7	3.1	1.856	0.013
004				
005				
006	2.3	-1.9	1.839	0.037
007				
008				
009				
010				
011	4.5	0.8	1.855	0.011
012	3.1	3.8	1.850	0.002
013				
014	1.9	-3.5	1.849	0.012
015				
Average	3.2	1.7	1.850	0.014
Std	± 1.7	± 4.1	± 0.006	± 0.012

Notes:

Positive is counter clockwise around axis
(ex. Positive pitch is tilted downward relative to
beam direction)

US Face Yaw and Pitch Differences from Nominal

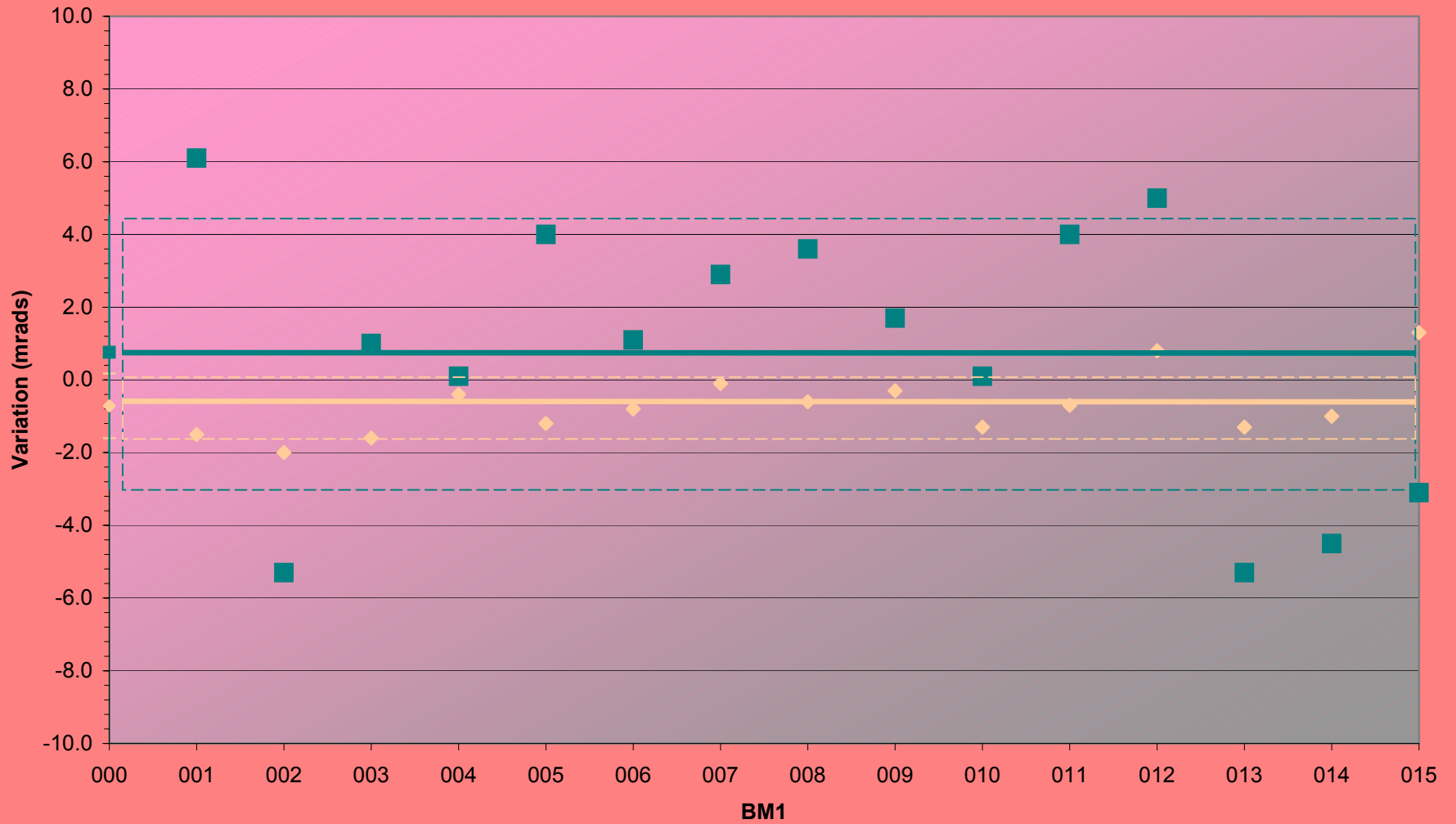
(With Means and Standard Deviations)



USface yaw USface pitch Average yaw Average pitch

DS Port Yaw and Pitch Differences from Nominal

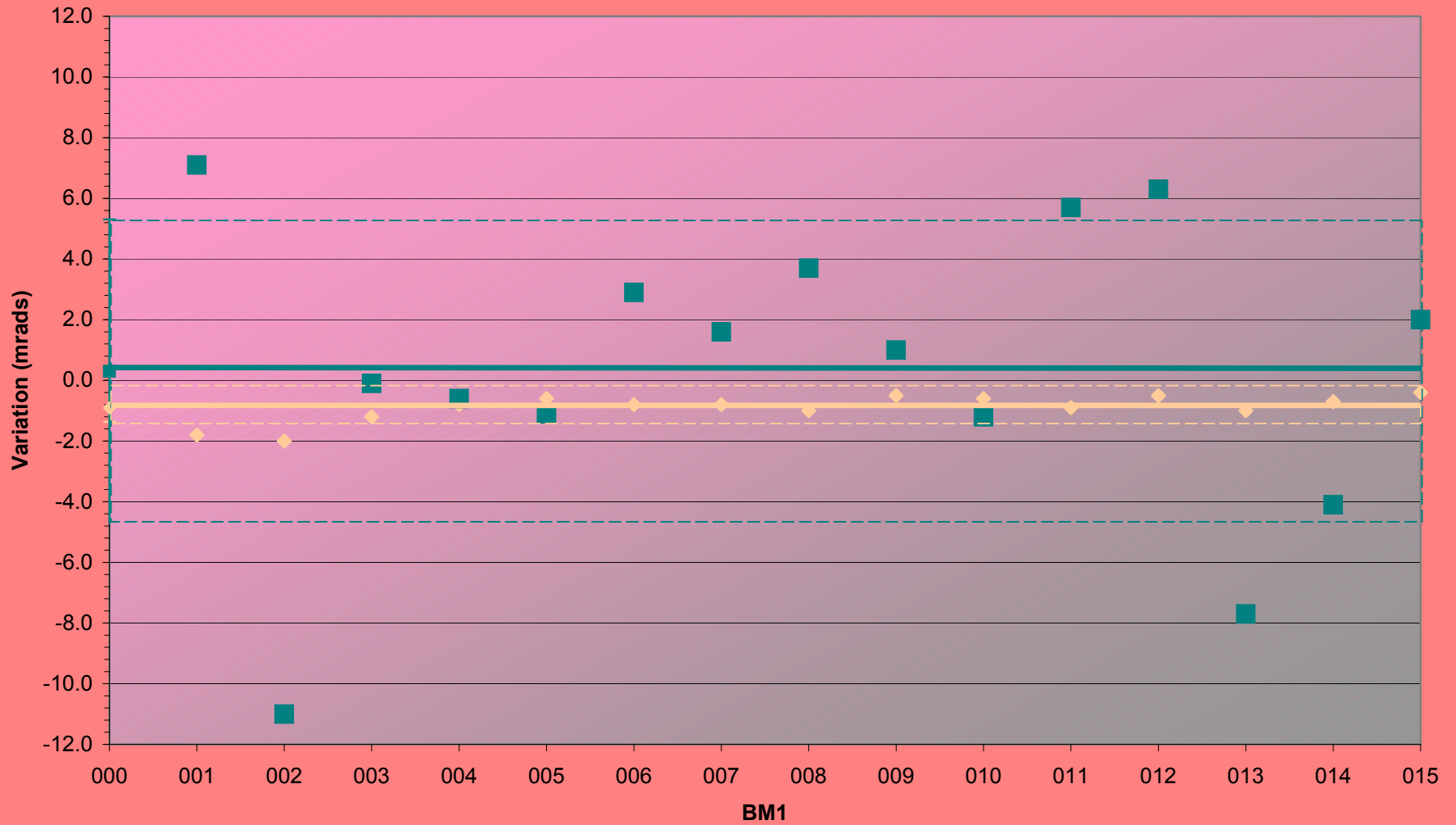
(With Means and Standard Deviations)



◆ DSPort yaw ■ DSPort pitch ◆ Average yaw ■ Average pitch

DS Support Yaw and Pitch Differences from Nominal

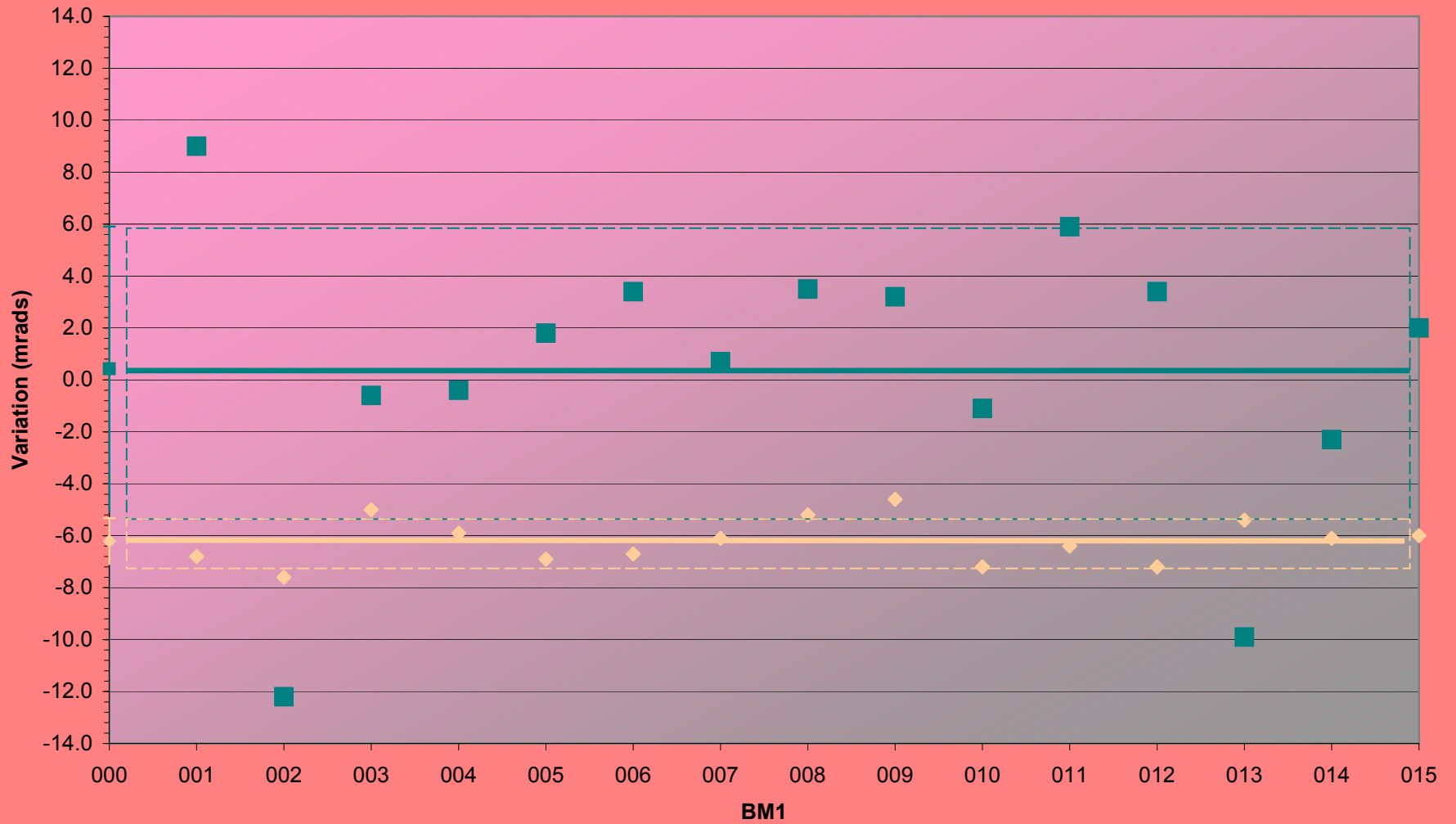
(With Means and Standard Deviations)



◆ DSSupport yaw ■ DSSupport pitch ◆ Average yaw ■ Average pitch

DS Flange Yaw and Pitch Differences from Nominal

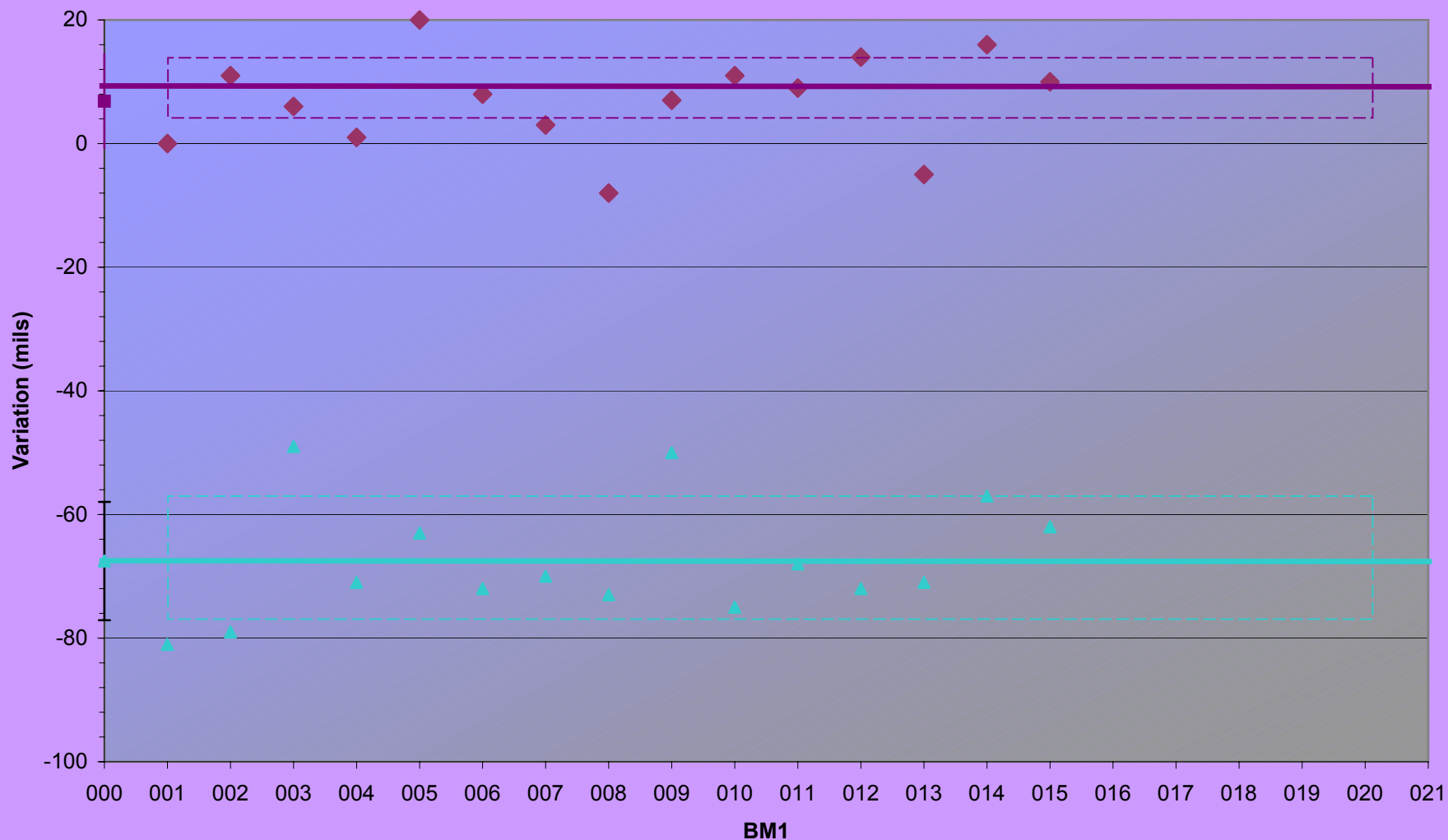
(With Means and Standard Deviations)



◆ DSFlange yaw ■ DSFlange pitch ◆ Average yaw ■ Average pitch

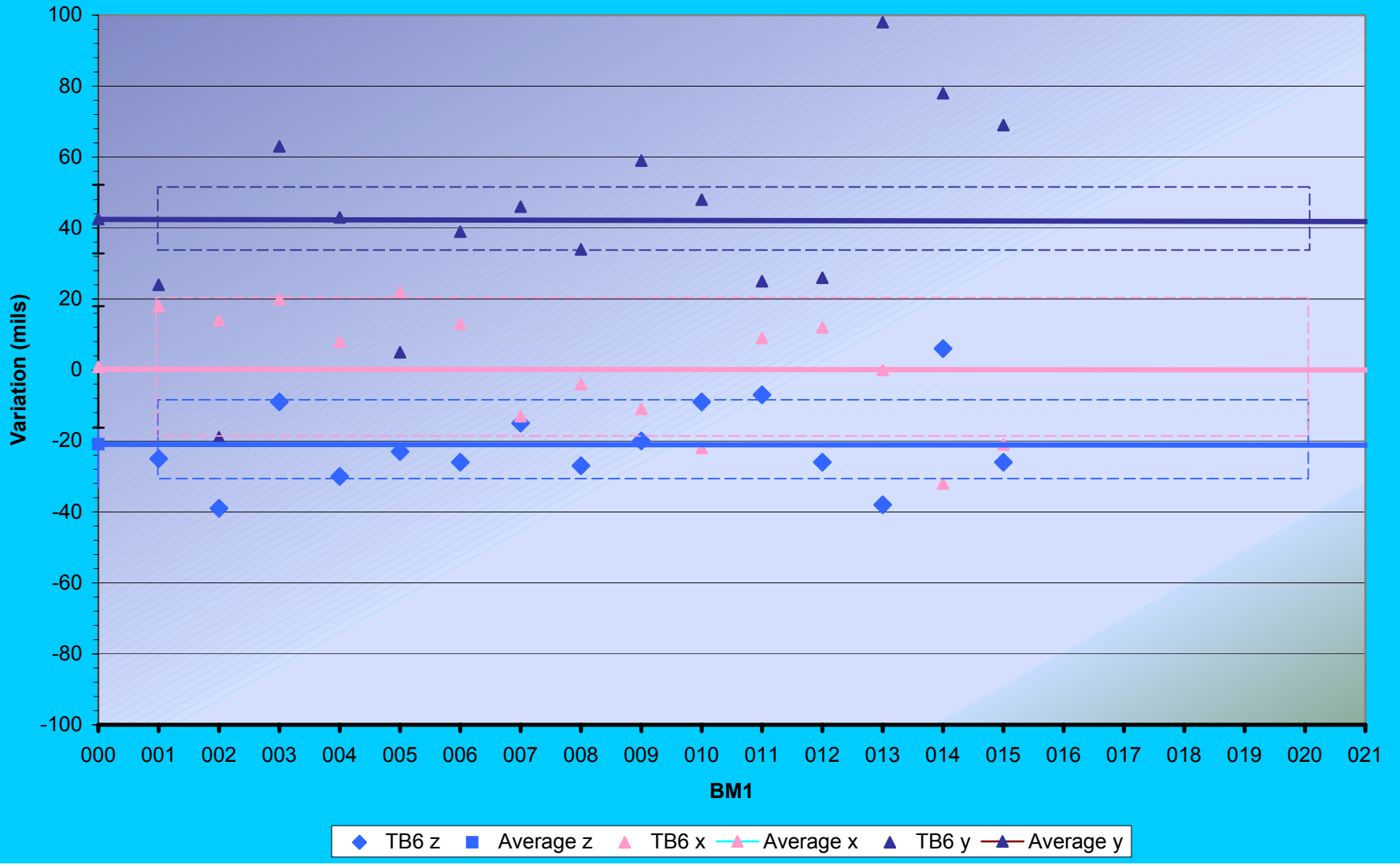
Chamber Length Differences from Nominal

(With Mean and Standard Deviation)

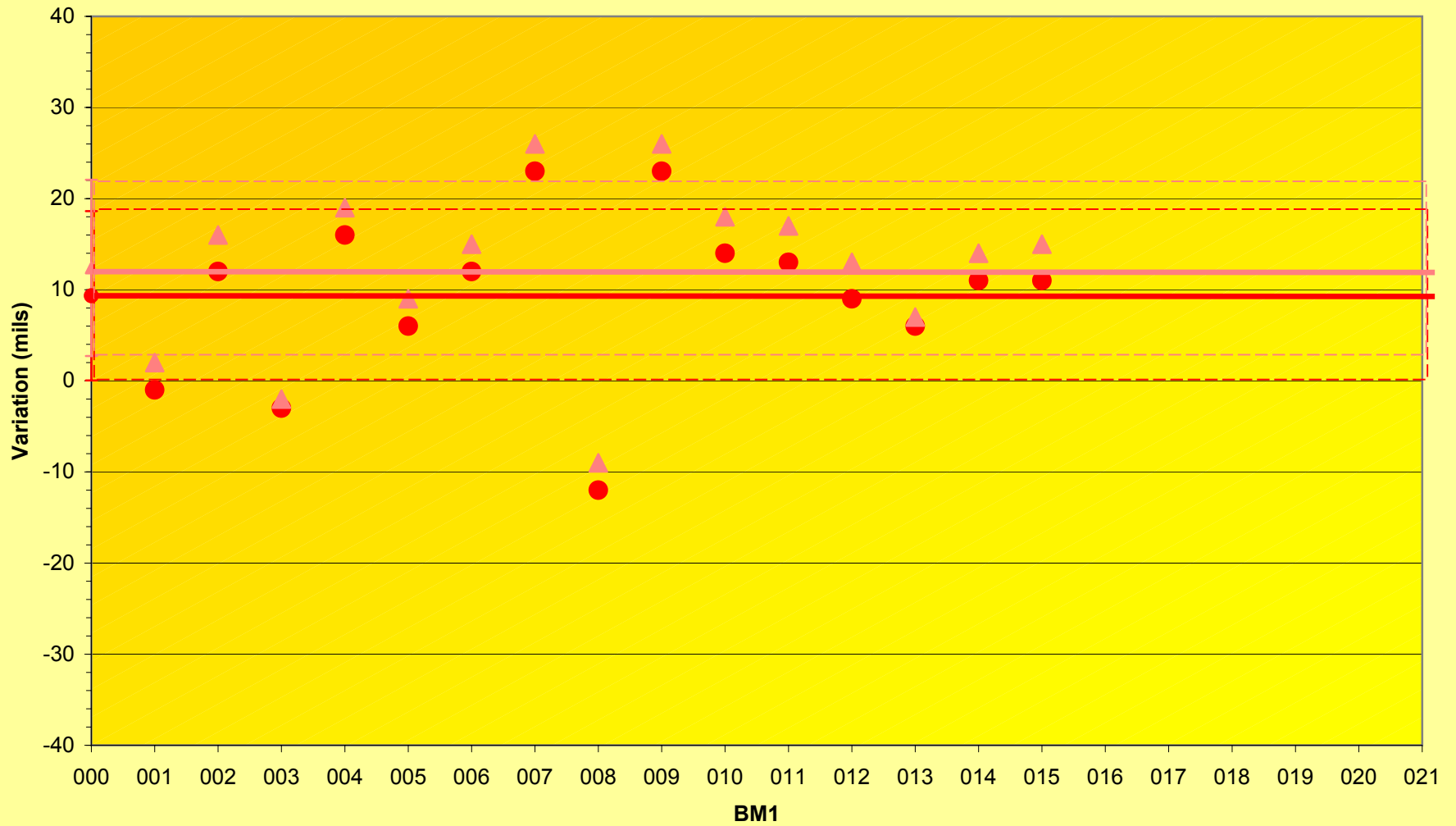


◆ Tangent Length ■ Average Tangent Length ▲ Orbit Length ▲ Average Orbit Length

Tooling Ball 6 Z,X,Y-position Variations from Nominal
(With Mean and Standard Deviations)



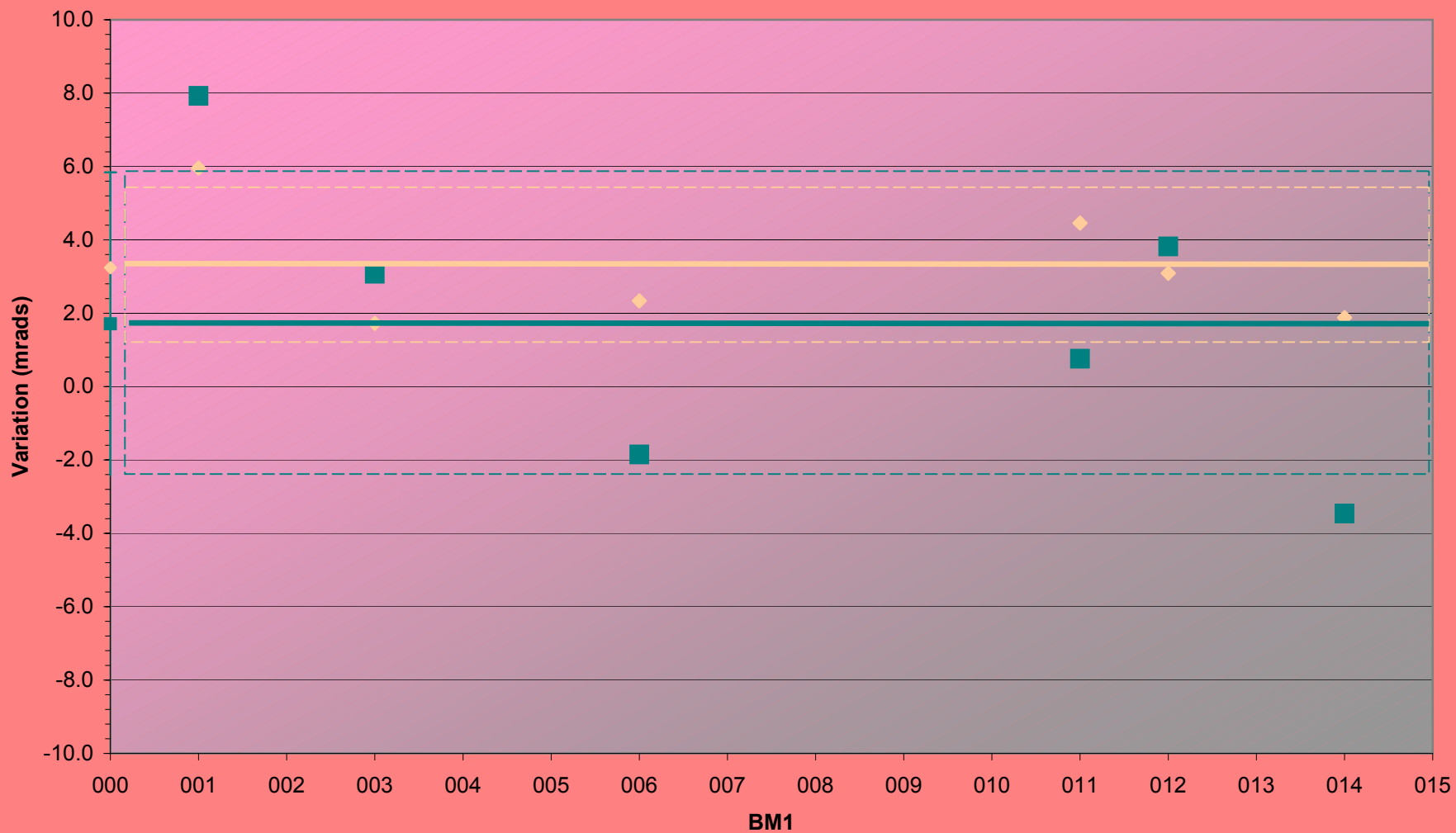
DS Support, DS Flange X-datum Differences from Nominal (With Means and Standard Deviations)



● DS Support ▲ DS Flange ● Average Support ▲ Average Flange

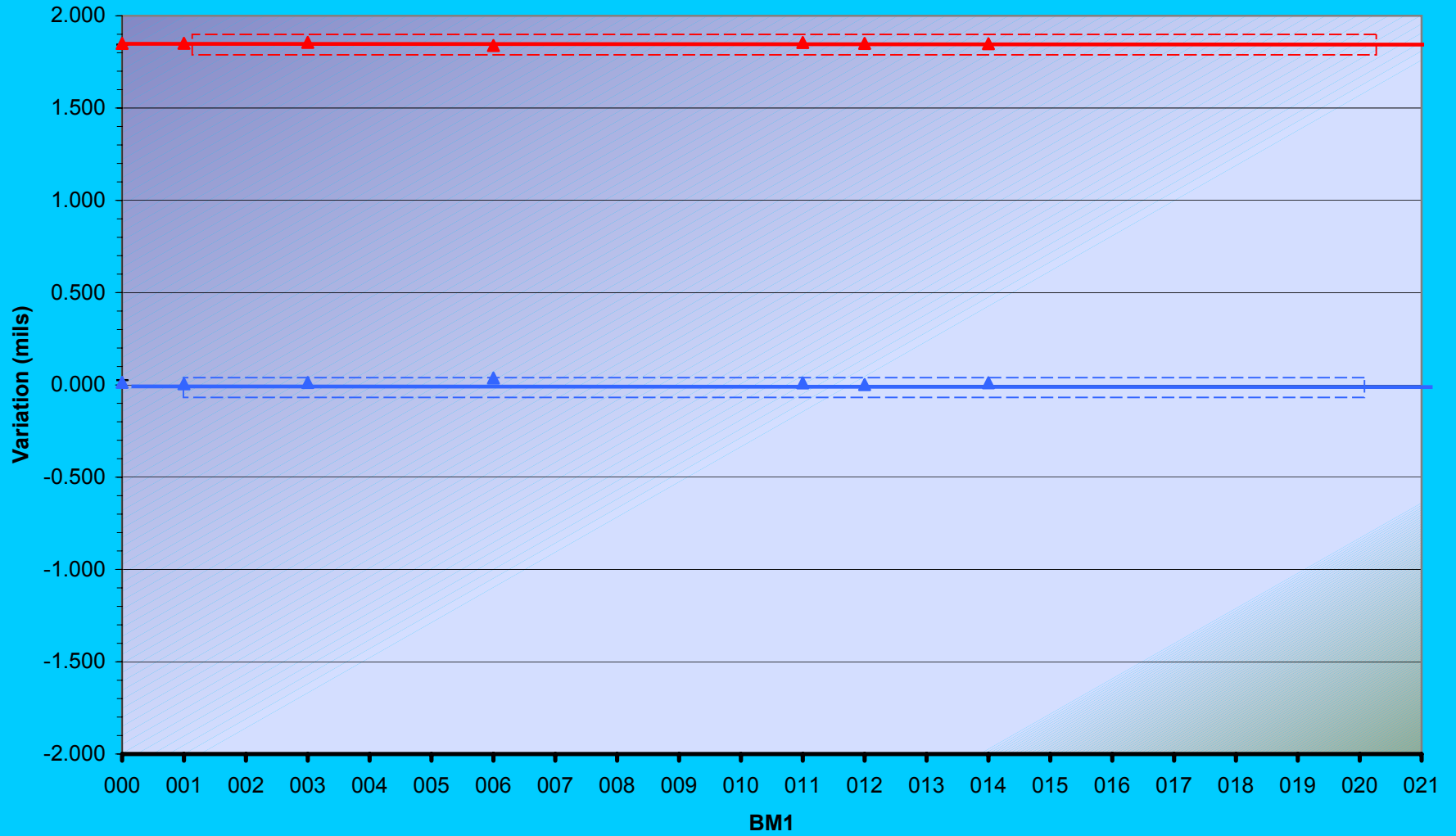
US Flange Yaw and Pitch Differences from Nominal

(With Means and Standard Deviations)



◆ USflange yaw ■ USflange pitch ◆ Average yaw ■ Average pitch

US Flange X,Y-position Variations from Nominal (With Mean and Standard Deviations)



▲ X ▲ Average x ▲ Y ▲ Average y