

Fig - Trial 1 – Roll, Pitch, and Yaw – No movement

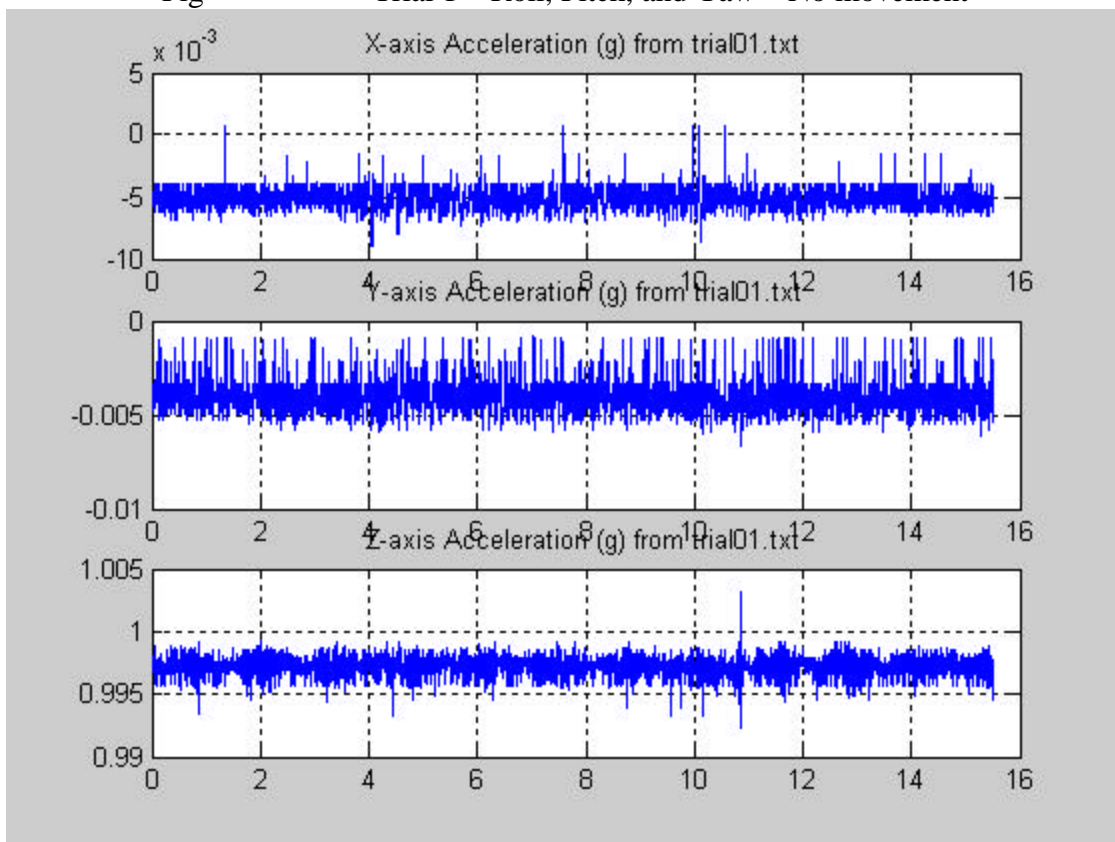


Fig - Trial 1 – X, Y, and Z-axis Accelerations – No movement

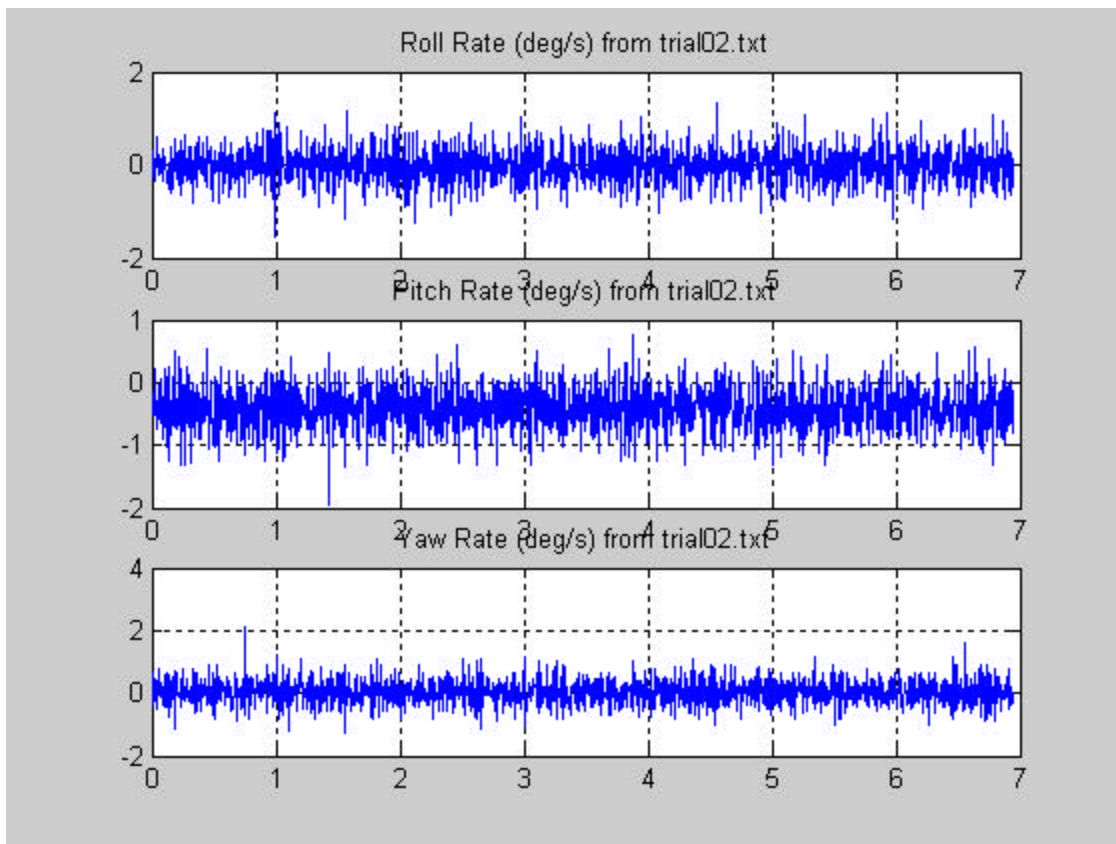


Fig - Trial 2 – Roll, Pitch, and Yaw – No movement

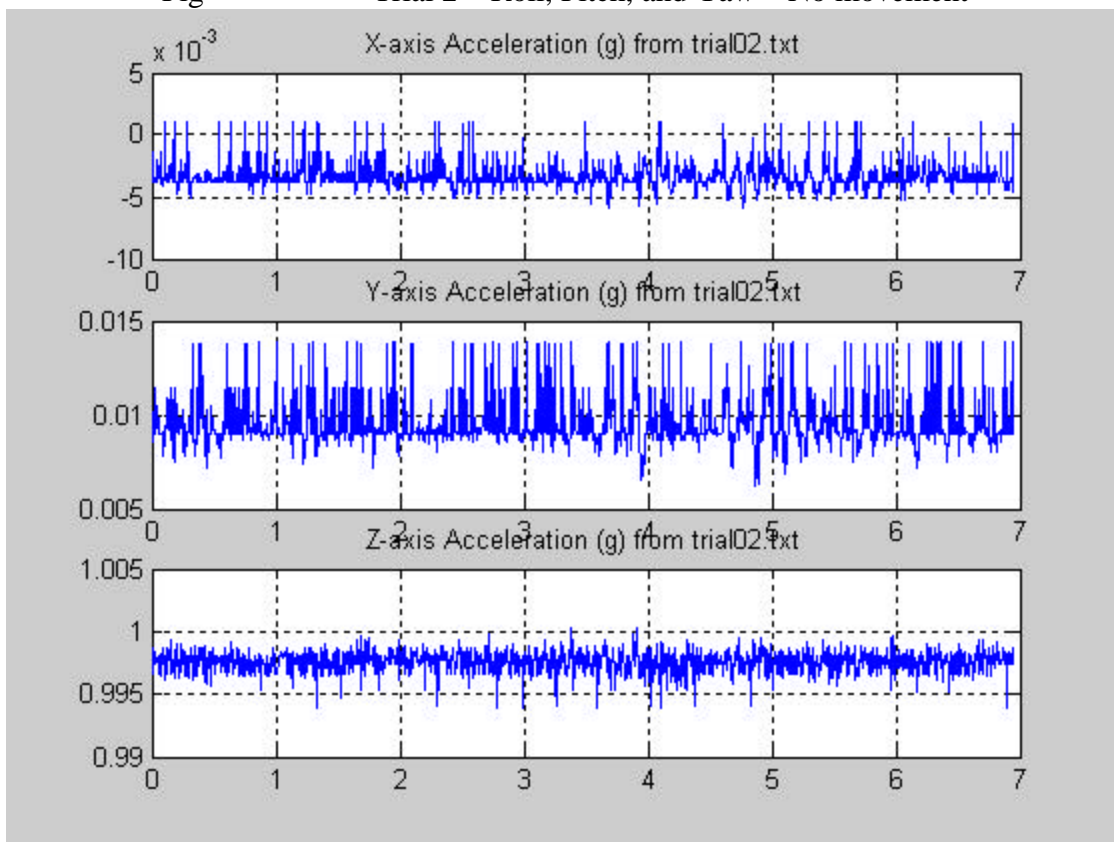


Fig - Trial 2 – X, Y, and Z-axis Accelerations – No movement

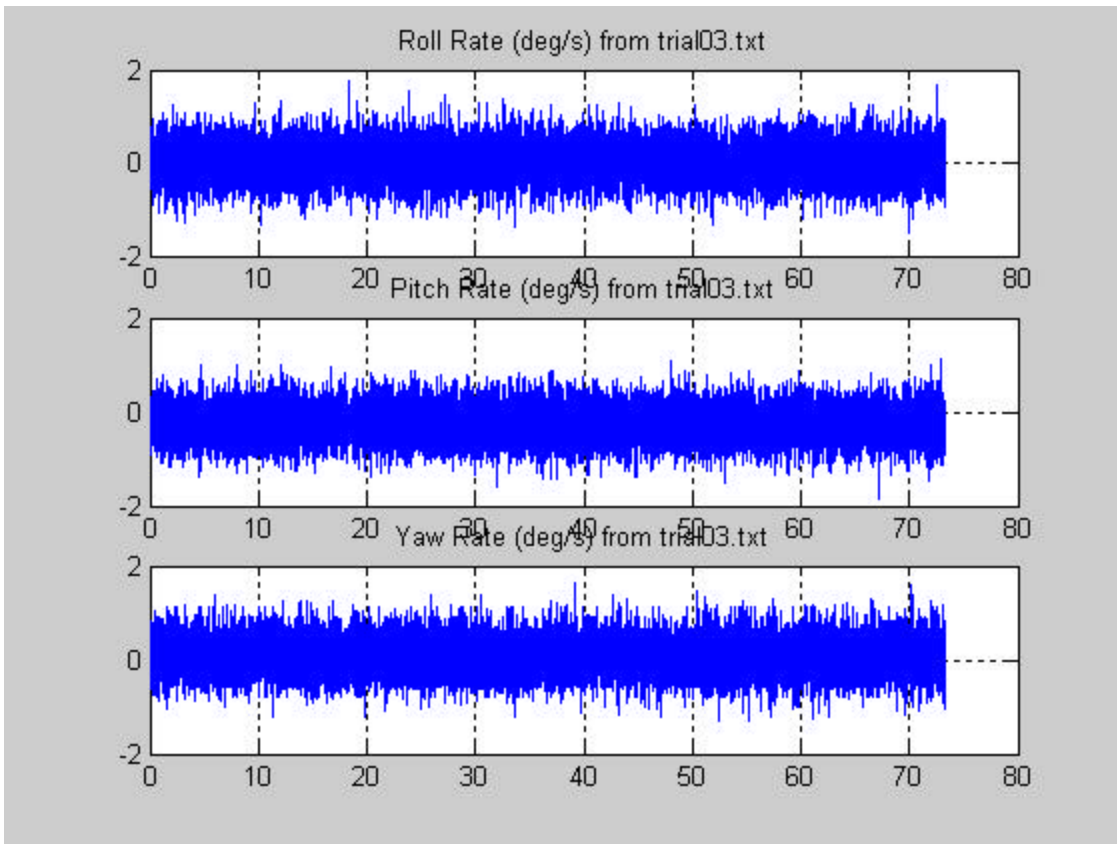


Fig - Trial 3 – Roll, Pitch, and Yaw – No movement

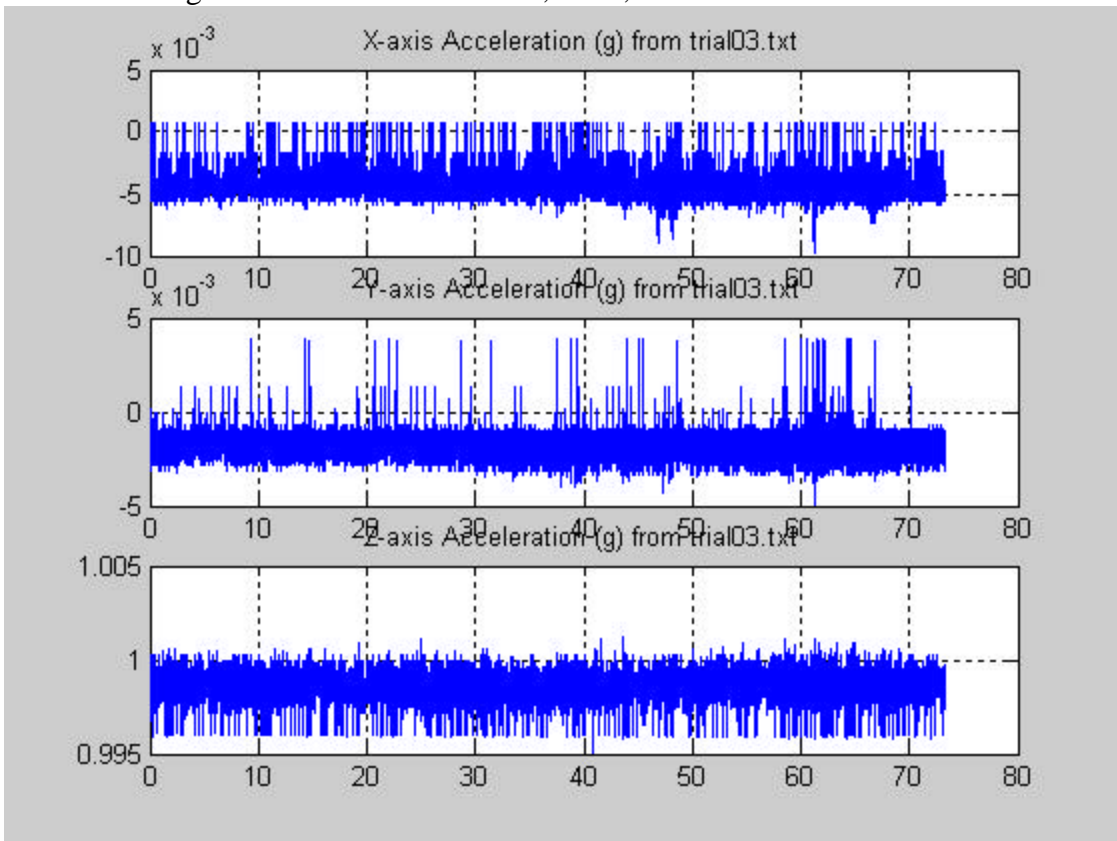


Fig - Trial 3 – X, Y, and Z-axis Accelerations – No movement

Trial01	Roll	Pitch	Yaw	X Accel	Y Accel	Z Accel
		-		-	-	
Mean	0.007940952	0.407516676	0.079201113	0.005150149	0.004077393	0.997212905
Variance	0.158676902	0.123040559	0.152184007	7.93E-07	8.66E-07	7.00E-07
Covariance	0.158676902	0.123040559	0.152184007	7.93E-07	8.66E-07	7.00E-07
Std Dev	0.398342694	0.350771378	0.390107686	0.000890393	0.000930538	0.000836853
RMS	0.398359759	0.537654207	0.398006764	0.005226527	0.004182197	0.997213256

Trial02	Roll	Pitch	Yaw	X Accel	Y Accel	Z Accel
		-		-	-	
Mean	-0.01969308	0.412197542	0.040889689	0.003381198	0.009544817	0.997596704
Var	0.149822386	0.128719091	0.159945374	1.13E-06	1.93E-06	7.85E-07
Cov	0.149822386	0.128719091	0.159945374	1.13E-06	1.93E-06	7.85E-07
Std Dev	0.387068967	0.358774428	0.399931711	0.001062437	0.001388932	0.000886055
RMS	0.387435081	0.546384781	0.401878135	0.003544078	0.009645275	0.997597097

Trial03	Roll	Pitch	Yaw	X Accel	Y Accel	Z Accel
		-		-	-	
Mean	0.021175574	0.254436526	0.096427696	0.004280689	0.001762669	0.998649436
Var	0.156367844	0.130433058	0.147706672	9.67E-07	5.74E-07	5.33E-07
Cov	0.156367844	0.130433058	0.147706672	9.67E-07	5.74E-07	5.33E-07
Std Dev	0.395433741	0.361155172	0.384326258	0.00098333	0.00075733	0.000729821
RMS	0.395987282	0.44177188	0.396226227	0.004392171	0.001918467	0.998649702

Table - Trial01, Trial02, and Trial03 Statistical Data

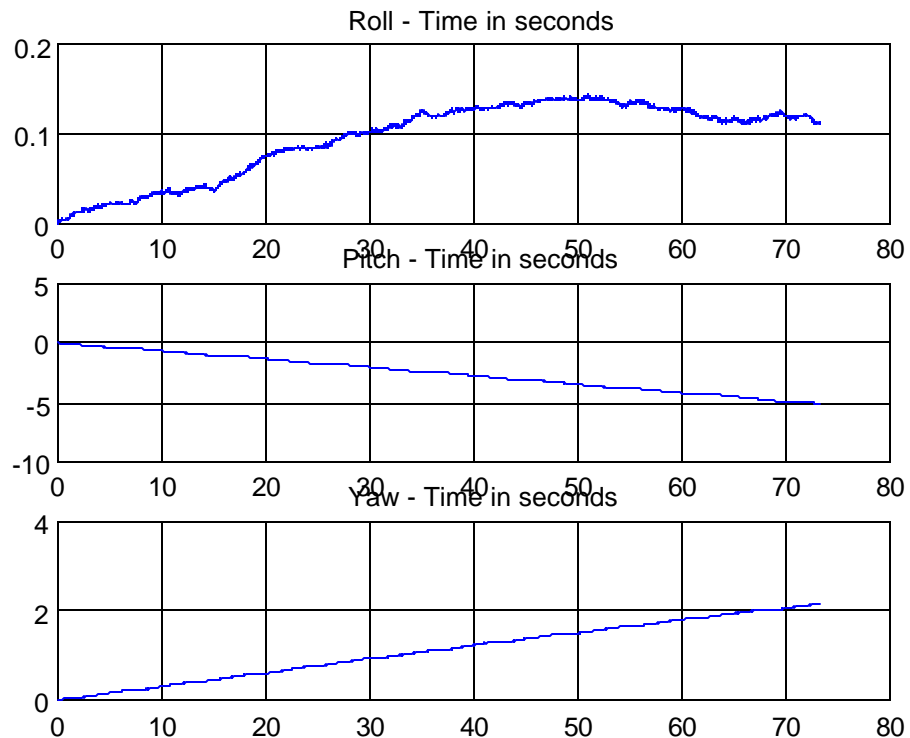


Fig - Trial03 data: Roll, Pitch, and Yaw

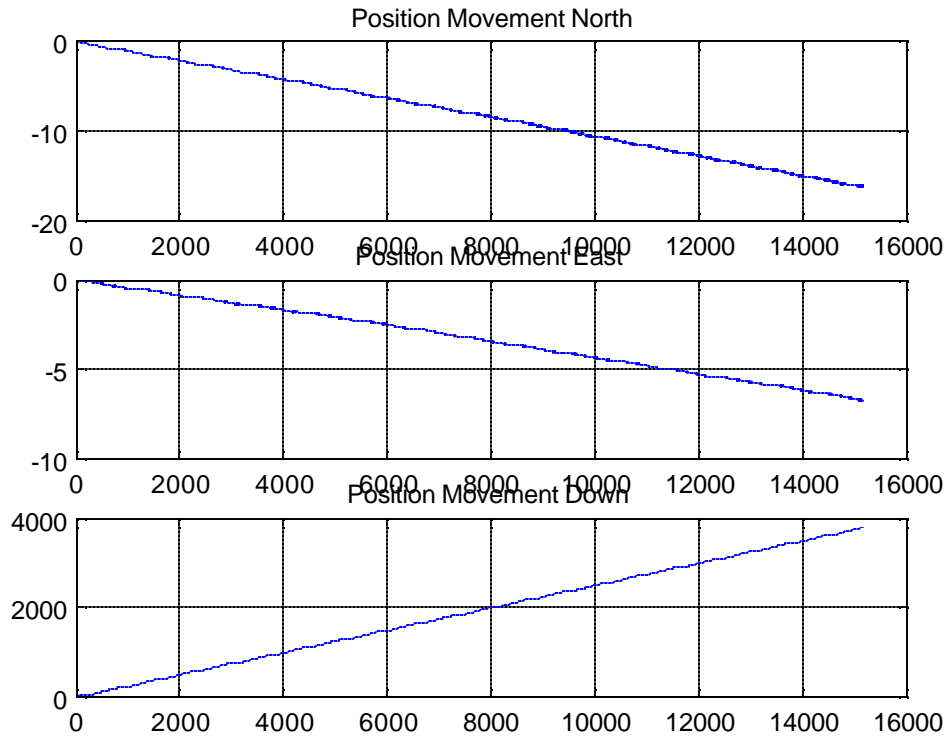


Fig - Trial03 Position Movement (NED)

The above figures display the roll, pitch, and yaw and the position movement north, east, and down.

After looking at our attitude computer and discussing it with Dr. Ahn, we concluded that the next step is to complete the attitude computer before we collect any more data. We wish to complete the attitude computer over the weekend.