Predicted values for Roll on 11/14 & 15, updated for actual initial conditions on 11/14/01

Delta Roll	Rel Roll	ACF Roll	At pauses W1	At pauses W2	At pauses W3	At pauses hx	W1 min	W1 max	W2 min	W2 max	W3 min	W3 max	Time < 190 (min) W1	Time < 190 (min) W2	Time < 190 (min) W3	CRS Drift 10^{-5} rad/500s
Initial on 11/14:		-6.51	-648	352	2432	10.29										
30.00	30.00	23.49	-1102	1857	1381	10.29	-1522	-648	352	1857	1229	2432	0.0	0.0	0.0	
30.00	60.00	53.49	-971	2845	262	10.29	-1670	-971	1857	2845	104	1381	0.0	0.0	2.3	
30.00	90.00	83.49	-306	3082	-640	10.29	-1282	-306	2845	3100	-860	262	0.0	0.0	1.2	
30.00	120.00	113.49	725	2508	-1097	10.29	-491	725	2508	3082	-1511	-640	0.8	0.0	0.0	
30.00	150.00	143.49	1860	1252	-976	10.29	575	1860	1252	2508	-1673	-976	0.0	0.0	0.0	
30.00	180.00	173.49	2782	-348	-299	10.29	1697	2782	-348	1252	-1291	-299	0.0	1.1	0.0	
30.00	210.00	203.49	3235	-1839	740	10.29	2498	3235	-1839	-348	-482	740	0.0	0.0	0.8	
30.00	240.00	233.49	3115	-2831	1852	10.29	2688	3235	-2831	-1839	589	1852	0.0	0.0	0.0	
30.00	270.00	263.49	2462	-3086	2760	10.29	2256	3115	-3100	-2831	1689	2760	0.0	0.0	0.0	
30.00	300.00	293.49	1431	-2525	3230	10.29	1279	2462	-3086	-2525	2483	3230	0.0	0.0	0.0	
30.00	330.00	323.49	286	-1266	3116	10.29	128	1431	-2525	-1266	2689	3230	2.0	0.0	0.0	
30.00	360.00	-6.51	-647	350	2433	10.29	-868	286	-1266	350	2231	3116	1.2	1.0	0.0	
-90.00	270.00	-96.51	2463	-3086	2759	10.29	-647	2649	-3086	350	2433	3815	1.0	1.1	0.0	
Initial on 11/15:		-96.51	2452	-3087	2765	10.26										
90.00	360.00	-6.51	-658	366	2422	10.26	-880	2452	-3087	366	2222	2765	1.1	1.1	0.0	

	W1	W2	W3		
Wheel maximum =	3235	3100	3815	margin =	185
Wheel min rel to + 190 =		262		margin =	72
Wheel max rel to - 190 =		-299		margin =	109
Wheel minumum =	-3322	-3100	-1673	margin =	678
Total time < 190 rpm (min) =	6.1	4.4	4.3		

Observed values for Roll on 11/14 & 15

	Observed ACF Roll (deg)	Observed Delta-roll(deg)	Commanded Delta-roll (deg)	Observed W1 (RPM)	Observed W2 (RPM)	Observed W3 (RPM)
Initial on 11/14/01	-6.513	-----	-----	-648	352	2432
	23.757	30.270	30	-1106	1864	1384
	53.603	29.846	30	-976	2858	259
	83.272	29.669	30	-304	3099	640
	113.095	29.828	30	736	2514	-1098
	143.173	30.078	30	1876	1254	-975
	173.407	30.234	30	2798	-352	-297
	203.450	30.043	30	3259	-1850	741
	233.138	29.688	30	3129	-2849	1861
	262.749	29.611	30	2466	-3098	2797
	292.602	29.853	30	1428	-2524	3230
	322.843	30.241	30	282	-1262	3111
	-6.732	30.425	30	-652	353	2432
	-97.364	-90.632	-90	2469	-3099	2764
Initial on 11/15/01	-97.380	-----	-----	2454	-3100	2772
	-6.820	90.560	90	-667	373	2418