Orbit	4SC	4SC D0	3SC D0	4SC BM (h)
3710	BM2 2h for Southern AAR BM2 0.8h for Equatorial Chorus/Hiis/Wistler Dawnside combined with southern AAR, start			2.8
3711	BM2 2h for Equatorial Chorus/Hiis/Wistler Dawnside combined with southern AAR, end BM1 5.5h for Cluster-MMS conj in MSH and MP inbound			7.5
3712	BM1 2h for Southern AAR			2
3713	BM1 2h for Southern AAR BM1 2h for MP Inbound			4
3714	BM1 2h for Southern AAR BM1 2.5h for Cluster-MMS conj at MP and MP inbound BM2 0.9h for Equatorial Chorus/Hiis/Wistler Dawnside combined with southern AAR, start			5.4
3715	BM2 2h for Equatorial Chorus/Hiis/Wistler Dawnside combined with southern AAR, end			2
3716	BM2 3h for Southern AAR, combined with Equatorial Chorus Duskside BM2 2.5h for MP Inbound			5.5
3717	BM2 2h for Southern AAR BM1 1.5h for Cluster0MMS conj in MSH			3.5
3718	BM1 2h for Southern AAR BM2 1h for Equatorial Chorus/Hiis/Whistlers Dawnside combined with Southern AAR, start			3
3719	BM2 2h for Equatorial Chorus/Hiis/Whistlers Dawnside combined with Southern AAR, end BM1 3.5h for Cluster-MMS conj in MSH and at BS BM2 0.2h for Southern AAR combined with Equatorial Chorus Duskside, start			5.7
3720	BM2 2.9h for Southern AAR combined with Equatorial Chorus Duskside, end BM1 1h for PEACE/WHISPER cross-cal, Single SC Ops			3.9
3721	BM1 2h for Southern AAR			2
3722	BM1 2h for Southern AAR BM1 3.5h for Cluster-MMS conj in MSH BM1 1.5h for Cluster-MMS conj in MSH and at BS BM1 0.1h for Southern AAR - start			7.1
3723	BM1 2h for Southern AAR - end BM2 0.1h for Southern AAR - start			2.1

BM1 3h for Cluster-MMS conj at the MP, in MSH and Outbound MP5BM1 2h for Southern AAR BM1 3h for Cluster-MMS conj at BS and MSH BM1 3h for Cluster-MMS conj at BS and MSH53725BM1 0.1h for Southern AAR - start5.1BM2 1.2h for Equatorial Chorus/His/Whistlers Dawnside combined with southern AAR - end BM1 2.1h for Cluster-IMMS conj in MSH, at BS, and BS outbound3.23726BM2 1.2h for Equatorial Chorus/His/Whistlers Dawnside combined with southern AAR - end BM1 3h for Cluster-IMMS conj in MSH, at BS, and BS outbound3.23727BM1 0.1h for Southern AAR - end BM1 2.1h for Southern AAR - start5.13728BM2 0.1h for Southern AAR - end BM1 2.1h for Southern AAR - end BM1 1h for Cluster-IMMS conj at MP and MSH and inbound MP4.13728BM2 0.1h for Southern AAR - end BM1 1h for PEACE/WHISPER cross-cal, Single SC Ops Manoeuvres on SC2 - start1.22.93729BM2 0.1h for Southern AAR, on SC134 - Single SC Ops - start1.22.93730BM1 0.2h for Southern AAR, on SC134 - Single SC Ops - end BM1 3.5h for Cluster-MMS conj at MP, in MSH and outbound MP Manoeuvres on SC2 - end BM2 2.1h for Southern AAR, on SC134 - Single SC Ops - end BM1 3.5h for Cluster-MMS conj at MP, in MSH and outbound MP2.55.13730BM1 0.2h for Southern AAR - end BM1 3.5h for Cluster-MMS conj at MP, in MSH and BS inbound BM1 3.5h for Cluster-MAR - end BM1 3.5h for Cluster-MAR		BM2 2h for Southern AAR - end		
3724Outbound MP5BM1 2h for Southern AAR BM1 3h for Cluster-MMS conj at BS and MSH BM1 0.1h for Southern AAR - start5.1BM1 2h for Southern AAR - end BM2 1.2h for Equatorial Chorus/Hiis/Whistlers Dawnside combined with southern AAR - start3.2BM2 2h for Equatorial Chorus/Hiis/Whistlers Dawnside combined with southern AAR - end BM1 3h for Cluster-MMS conj in MSH, at BS, and BS outbound3.2BM2 2h for Equatorial Chorus/His/Whistlers Dawnside combined with southern AAR - end BM1 3h for Cluster-MMS conj in MSH, at BS, and BS outbound5.1BM1 0.1h for Southern AAR - end BM1 2h for Southern AAR - end BM1 2h for Cluster-MMS conj at MP and MSH and inbound MP4.13728BM2 0.1h for Southern AAR - end BM1 1h for PEACE/WHISPER cross-cal, Single SC Ops Manoeuvres on SC2 - start4.1BM2 2h for Southern AAR - end BM1 1h for Southern AAR, on SC134 - Single SC Ops - start1.22.9Manoeuvres on SC2 - end BM2 2h for Southern AAR, on SC134 - Single SC Ops - end BM1 3.5h for Cluster-MMS conj at MP, in MSH and outbound MP Manoeuvres on SC2 - end BM1 3.5h for Cluster-MMS conj at MP, in MSH and outbound MP Manoeuvres on SC2 attr2.55.1BM1 19h for Southern AAR - end BM1 3.5h for Cluster-MMS conj at MP, in MSH and BS inbound BM1 3.5h for Cluster-MMS conj in MSH and BS inbound BM1 3.5h for Cluster-MMS conj in MSH and BS inbound BM1 3.5h for Cluster-MMS conj in MSH and BS inbound BM1 3.5h for Cluster-MMS conj in MSH and BS outbound MAN abs infor Cluster-MMS conj in MSH and BS outbound MAN abs infor Cluster-MMS conj in MSH and BS outbound Manoueuvres on SC2 - start2.1				
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3726combined with southern AAR - start		BM1 2h for Southern AAR - end		
BM2 2h for Equatorial Chorus/Hiis/Whistlers Dawnside combined with southern AAR - end BM1 3h for Cluster-MMS conj in MSH, at BS, and BS outbound 5.1 3727 BM1 0.1h for Southern AAR - start 5.1 BM1 2h for Southern AAR - end BM1 2h for Cluster-MMS conj at MP and MSH and inbound MP 4.1 3728 BM2 0.1h for Southern AAR - end BM1 1h for Southern AAR - start 4.1 BM2 1.9h for Southern AAR - end BM1 1h for PEACE/WHISPER cross-cal, Single SC Ops Manoeuvres on SC2 - start 2.9 Manoeuvres on SC2 - end BM2 2.0 th for Southern AAR, on SC134 - Single SC Ops - start 1.2 2.9 Manoeuvres on SC2 - end BM1 3.5h for Cluster-MMS conj at MP, in MSH and outbound MP Manoeuvres on SC2 5.1 5.1 BM1 1.9h for Southern AAR - end BM1 2.1 for Southern AAR - start 2.5 5.1 BM2 2.1 for Southern AAR - end BM1 3.5h for Cluster-MMS conj in MSH and BS inbound BM1 3.5h for Cluster-MMS conj in MSH and BS inbound BM1 3.5h for Southern AAR - start 2.5 5.1 BM1 1.9h for Southern AAR - end BM1 3.5h for Cluster-MAR conj in MSH and BS inbound BM1 3.5h for Southern AAR - start 2.1 5.1 BM1 1.9h for Southern AAR - end BM1 3.5h for Cluster-MAR conj in MSH and BS inbound BM1 3.5h for Cluster-MAR conj in MSH and BS inbound BM1 3.5h for Southern AAR - end BM1 3.5h for Cluster-MAR conj in MSH and BS inbound BM1 3.5h for Cluster-MAR conj in MSH and BS inbound BM1		BM2 1.2h for Equatorial Chorus/Hiis/Whistlers Dawnside		
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BM1 2h for Southern AAR - end BM1 2h for Cluster-MMS conj at MP and MSH and inbound MP4.13728BM2 0.1h for Southern AAR - start4.1BM2 1.9h for Southern AAR - end BM1 1h for PEACE/WHISPER cross-cal, Single SC Ops Manoeuvres on SC2 - start1.23729BM2 0.1h for Southern AAR, on SC134 - Single SC Ops - start1.23729BM2 0.1h for Southern AAR, on SC134 - Single SC Ops - start1.23729BM2 0.1h for Southern AAR, on SC134 - Single SC Ops - end BM2 2h for Southern AAR, on SC134 - Single SC Ops - end BM1 3.5h for Cluster-MMS conj at MP, in MSH and outbound MP Manoeuvres on SC22.53730BM1 0.2h for Southern AAR - end BM1 3.5h for Cluster-MMS conj in MSH and BS inbound 37315.1BM1 1.9h for Southern AAR - end BM1 2.1h for Southern AAR - end BM1 0.1h for Southern AAR - end BM1 0.1h for Southern AAR - end BM1 1.9h for Southern AAR - end BM1 4.5h for Cluster-MMS conj in MSH and BS outbound Manoueuvres on SC2 - start2				
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3729BM2 0.1h for Southern AAR, on SC134 - Single SC Ops - start1.22.9Manoeuvres on SC2 - end BM2 2h for Southern AAR, on SC134 - Single SC Ops - end BM1 3.5h for Cluster-MMS conj at MP, in MSH and outbound MP Manoeuvres on SC2 BM1 0.2h for Southern AAR - start2.55.13730BM1 1.9h for Southern AAR - end BM1 3h for Cluster-MMS conj in MSH and BS inbound BM1 3h for Cluster-MMS conj in MSH and BS inbound BM2 0.2h for Southern AAR - end BM1 1.9h for Southern AAR - start2.55.13731BM2 0.2h for Southern AAR - end BM1 0.1h for Southern AAR - start22				
Manoeuvres on SC2 - end BM2 2h for Southern AAR, on SC134 - Single SC Ops - end BM1 3.5h for Cluster-MMS conj at MP, in MSH and outbound MP Manoeuvres on SC2Southern AAR - start2.55.13730BM1 0.2h for Southern AAR - start2.55.1BM1 1.9h for Southern AAR - end BM1 3h for Cluster-MMS conj in MSH and BS inbound5.13731BM2 0.2h for Southern AAR - end BM1 0.1h for Southern AAR - start5.13732BM1 1.9h for Southern AAR - end BM1 0.1h for Southern AAR - start2BM1 1.9h for Southern AAR - end BM1 0.1h for Southern AAR - start2	2720		1 2	2.0
BM2 2h for Southern AAR, on SC134 - Single SC Ops - end BM1 3.5h for Cluster-MMS conj at MP, in MSH and outbound MP Manoeuvres on SC2 BM1 0.2h for Southern AAR - start2.55.13730BM1 1.9h for Southern AAR - end BM1 3h for Cluster-MMS conj in MSH and BS inbound BM2 0.2h for Southern AAR - start2.55.13731BM2 1.9h for Southern AAR - end BM1 0.1h for Southern AAR - end BM1 0.1h for Southern AAR - end BM1 0.1h for Southern AAR - end BM1 1.9h for Southern AAR - end BM1 4.5h for Cluster-MMS conj in MSH and BS outbound Manoueuvres on SC2 - startImage: Cluster AMS conj in MSH and BS outbound Manoueuvres on SC2 - start	5729	BWZ 0.111 101 Southern AAR, 011 SC154 - Single SC Ops - Start	1.2	2.9
BM2 2h for Southern AAR, on SC134 - Single SC Ops - end BM1 3.5h for Cluster-MMS conj at MP, in MSH and outbound MP Manoeuvres on SC2 BM1 0.2h for Southern AAR - start2.55.1BM1 1.9h for Southern AAR - end BM1 3h for Cluster-MMS conj in MSH and BS inbound BM2 0.2h for Southern AAR - start2.55.1BM2 1.9h for Southern AAR - end BM1 0.1h for Southern AAR - end BM1 0.1h for Southern AAR - end BM1 0.1h for Southern AAR - end BM1 1.9h for Southern AAR - end BM1 4.5h for Cluster-MMS conj in MSH and BS outbound Manoueuvres on SC2 - startImage: Cluster AMS conj in MSH and BS outbound Manoueuvres on SC2 - start				
BM1 3.5h for Cluster-MMS conj at MP, in MSH and outbound MP Manoeuvres on SC2Image: Cluster - MMS conj at MP, in MSH and outbound MP Manoeuvres on SC23730BM1 0.2h for Southern AAR - start2.5BM1 1.9h for Southern AAR - end BM1 3h for Cluster-MMS conj in MSH and BS inboundImage: Cluster - MS conj in MSH and BS inbound3731BM2 0.2h for Southern AAR - end BM1 0.1h for Southern AAR - startImage: Cluster - MS conj in MSH and BS inbound3732BM2 1.9h for Southern AAR - end BM1 0.1h for Southern AAR - startImage: Cluster - MS conj in MSH and BS outbound Manoueuvres on SC2 - start				
MP Manoeuvres on SC2Manoeuvres on SC2Scale3730BM1 0.2h for Southern AAR - start2.5BM1 1.9h for Southern AAR - end BM1 3h for Cluster-MMS conj in MSH and BS inbound13731BM2 0.2h for Southern AAR - end BM2 0.2h for Southern AAR - start1BM2 1.9h for Southern AAR - end BM1 0.1h for Southern AAR - end BM1 0.1h for Southern AAR - start1BM2 1.9h for Southern AAR - end BM1 0.1h for Southern AAR - start2BM1 1.9h for Southern AAR - start2				
Manoeuvres on SC2Manoeuvres on SC2Scale3730BM1 0.2h for Southern AAR - start2.55.1BM1 1.9h for Southern AAR - end BM1 3h for Cluster-MMS conj in MSH and BS inbound113731BM2 0.2h for Southern AAR - start5.1BM2 1.9h for Southern AAR - end BM1 0.1h for Southern AAR - end BM1 0.1h for Southern AAR - start2BM1 1.9h for Southern AAR - end BM1 0.1h for Southern AAR - start2		-		
3730BM1 0.2h for Southern AAR - start2.55.1BM1 1.9h for Southern AAR - end BM1 3h for Cluster-MMS conj in MSH and BS inboundImage: Cluster Cluster Cluster AAR - end BM2 0.2h for Southern AAR - startImage: Cluster Cluster AAR - end BM1 0.1h for Southern AAR - end BM1 0.1h for Southern AAR - startImage: Cluster AAR - end BM1 0.1h for Southern AAR - end BM1 1.9h for Southern AAR - end BM1 4.5h for Cluster-MMS conj in MSH and BS outbound Manoueuvres on SC2 - startImage: Cluster AAR - end BM1 4.5h for Cluster AAR - end BM1 A.5h for Cluster AAR				
BM1 3h for Cluster-MMS conj in MSH and BS inbound BM2 0.2h for Southern AAR - startImage: Cluster Cluster Cluster AAR - startBM2 1.9h for Southern AAR - end BM1 0.1h for Southern AAR - startImage: Cluster Cluster Cluster AAR - startBM1 1.9h for Southern AAR - end BM1 4.5h for Cluster-MMS conj in MSH and BS outbound Manoueuvres on SC2 - startImage: Cluster C	3730		2.5	5.1
BM1 3h for Cluster-MMS conj in MSH and BS inbound BM2 0.2h for Southern AAR - startImage: Cluster Cluster Cluster AAR - startBM2 1.9h for Southern AAR - end BM1 0.1h for Southern AAR - startImage: Cluster Cluster Cluster AAR - startBM1 1.9h for Southern AAR - end BM1 4.5h for Cluster-MMS conj in MSH and BS outbound Manoueuvres on SC2 - startImage: Cluster C		PM11 1 Ob for Southorn AAP and		
3731BM2 0.2h for Southern AAR - start5.1BM2 1.9h for Southern AAR - end BM1 0.1h for Southern AAR - start12BM1 0.1h for Southern AAR - end BM1 1.9h for Southern AAR - end BM1 4.5h for Cluster-MMS conj in MSH and BS outbound Manoueuvres on SC2 - start15.1				
BM2 1.9h for Southern AAR - end 2 BM1 0.1h for Southern AAR - start 2 BM1 1.9h for Southern AAR - end 2 BM1 4.5h for Cluster-MMS conj in MSH and BS outbound 4 Manoueuvres on SC2 - start 4	3731	-		5.1
3732 BM1 0.1h for Southern AAR - start 2 BM1 1.9h for Southern AAR - end BM1 1.9h for Southern AAR - end BM1 4.5h for Cluster-MMS conj in MSH and BS outbound A Manoueuvres on SC2 - start A				
BM1 1.9h for Southern AAR - end BM1 4.5h for Cluster-MMS conj in MSH and BS outbound Manoueuvres on SC2 - start	3732			2
BM1 4.5h for Cluster-MMS conj in MSH and BS outbound Manoueuvres on SC2 - start	0102			۲
BM1 4.5h for Cluster-MMS conj in MSH and BS outbound Manoueuvres on SC2 - start		PM11 1 0h for Southorn AAP and		
Manoueuvres on SC2 - start				
		-		
	3733	BM2 0.1h for Southern AAR, on SC134 - Single SC Ops - start	1.2	6.4

	Manoeuvres on SC2 - end BM2 2h for Southern AAR, on SC134 - Single SC Ops - end Manoeuvres on SC2 BM1 2.5h for Triple conj at MP and MP inbound crossing BM2 0.2h for Sourthern AAR combined with Equatorial		
3734	Chorus Duskside - start	2.4	4.2
3735	BM2 2.6h for Sourthern AAR combined with Equatorial Chorus Duskside - end BM2 3h for BS Outbound BM2 0.1h for Southern AAR - start		5.7
3736	BM2 2h for Southern AAR - end BM1 2.5h for Cluster-MMS conj at BS BM1 0.1h for Southern AAR - start		4.6
3737	BM1 1.9h for Southern AAR - end BM1 1h for PEACE/WHISPER cross-cal, Single SC Ops Manoeuvres on SC2 Start of eclipse season on SC2 on 01/02/2024 04:00 (at the start of above manoeuvre) Manoeuvres on SC2 - start (when SC is off for eclipse season) BM1 0.2h for Southern AAR on SC134 - start	1.8	3.2
3738	Manoeuvres on SC2 - end (when SC is off for eclipse season) BM1 1.9h for Southern AAR on SC134 - end BM1 4.25h for Cluster-MMS conj at MP, in MSH and BS, and partial crossings of MP and BS BM1 0.1h for Southern AAR, SC134 - start		4.4
3739	BM1 1.9h for Southern AAR, SC134 - end BM1 2h for Cluster-MMS conj in MSH and at BS, SC134 BM1 0.1h for Southern AAR, SC134 - start		3
3740	BM1 1.9h for Southern AAR, SC134 - end BM1 0.1h for Southern AAR, SC134 - start		1.5
3741	BM1 1.9h for Southern AAR, SC134 - end BM1 2.5h for Cluster-MMS conj at BS, SC134 BM1 0.1h for Southern AAR, SC134 - start		3.5
3742	BM1 1.9h for Southern AAR, SC134 - end BM1 3.5h for Triple conj in MSH, Cluster-MMS conj at MP, and MP inbound partial, SC134 BM2 0.1h for Southern AAR, SC134 - start		4.1
3742	BM2 0.1h for Southern AAR, SC134 - start BM1 0.1h for Southern AAR, SC134 - start		1.5

	BM1 1.9h for Southern AAR, SC134 - end		
	BM1 2.5h for Cluster-MMS conj in MSH and MP Outbound, SC134		
	BM1 2h for Cluster-THEMIS conj at MP and in MSH and MP		
	Inbound, SC134		
3744	BM1 0.1h for Southern AAR, SC134 - start		4.9
	BM1 1.9h for Southern AAR, SC134 - end		
	Start of the eclipse season on SC1 on 19/02/2023 20:00		
	BM1 2h for Cluster/THEMIS conj in MSH, at MP and MP		
3745	Inbound, SC34		2.4
	BM1 2h for Cluster-THEMIS in MSH and at MP and Inbound		
3746	MP, SC34		1
	BM1 3h for Cluster-MMS conj in MSH and at BS, and BS		
	outbound, SC34		
	BM1 3h for Cluster-THEMIS conj in MSH, at MP and MP		
3747	inbound, SC34		3
	Start of the eclipse season on SC34, D0 start on 26/02/2024		
3748	18:00		0
3749			0
3750			0
3751-3757	Start of PP 1210, a special 'generic OBRQ '		0
			<u> </u>
	BM1 2h special operations on SC134 for Cluster-MMS		
3758	conjunction at the magnetopause		2
3759-3765	End of PP 1210		0