

12/06/2023

Auroral Acceleration Region, C1 – C2 conjunctions with EISCAT, MSP48.2 and MSP49.1

Time at C1 R < 6 Re	Time at C2 $\lambda_{fp} > 55$	Time min sep	dSperp(km)	dS (km)	λ_{fp} C2	C1 MLT	Mode allocated	EISCAT conjunction	
2023-05-04 21:50	2023-05-04 23:45	2023-05-04 23:10	2056.2		4205.4	62.5	23.73	PV+BM2	EISCAT - best
2023-05-13 22:50	2023-05-14 00:40	2023-05-14 00:15	1749.1		4509.6	64.7	23.06	PV+BM2	EISCAT - best
2023-05-22 23:55	2023-05-23 01:40	2023-05-23 01:15	1461.2		4644.6	65.5	22.57	BM1	EISCAT
2023-05-29 18:45	2023-05-29 20:45	2023-05-29 20:00	2261.6		3984.5	58.9	22.47	PV+BM2	EISCAT
2023-06-07 19:50	2023-06-07 21:40	2023-06-07 21:10	2067.9		4385.8	62.4	21.61	BM1	EISCAT - best
2023-06-16 20:55	2023-06-16 22:40	2023-06-16 22:15	1777.5		4628.3	64.7	21.02	BM1	EISCAT - best
2023-06-25 22:00	2023-06-25 23:40	2023-06-25 23:15	1521.4		4757.2	65.6	20.51	BM2	EISCAT

Auroral Acceleration Region, C1 – C2 conjunctions with EISCAT, MSP49.2

2023-07-11 17:50	2023-07-11 19:40	2023-07-11 19:10	2187		4431	62.8	19.48	BM1	EISCAT - best
2023-07-20 18:55	2023-07-20 20:40	2023-07-20 20:15	1901		4753	65	18.86	PV+BM2	EISCAT
2023-08-14 16:00	2023-08-14 17:50	2023-08-14 17:20	2334		4760	62.6	17.15	BM1	EISCAT - best
2023-09-17 14:20	2023-09-17 16:00	2023-09-17 15:35	2381		4804	63.2	15.33	BM1	EISCAT - best

Columns are:

Time when C1 radius less than 6 Re.

Time when C2 footprint mLat (λ_{fp}) > 55.

Time at point of minimum cross field separation.

Minimum cross field separation (km).

Along field separation at point of minimum cross field separation (km).

C2 footprint mLat (λ_{fp}) at point of minimum cross field separation (almost the same as C1).

C1 MLT at point of minimum cross field separation (almost the same as C2).

Allocated burst mode on Cluster

Allocated EISCAT time