

Supplementary material

Dawn-dusk asymmetry in the main auroral emissions at Jupiter observed with Juno-UVS

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North				
PJ	Spins used	Date(s)	Start time (UT)	End time (UT)
1	100	08/27/2016	10:03:35	10:54:15
2	0	/	/	/
3	100	12/11/2016	15:24:47	16:14:49
4	100	02/02/2017	11:24:48	12:15:33
5	100	03/27/2017	07:37:44	08:27:47
6	100	05/19/2017	03:30:28	04:20:56
7	100	07/10 – 11/2017	23:46:13	00:37:20
8	100	09/01/2017	20:21:37	21:11:20
9	100	10/24/2017	16:21:10	17:11:05
10	100	12/16/2017	16:45:42	17:36:44
11	100	02/07/2018	12:55:09	13:44:42
12	100	04/01/2018	07:58:13	08:49:22
13	100	05/24/2018	04:08:28	04:58:41
14	100	07/16/2018	03:49:03	04:38:38
15	100	09/07/2018	00:04:51	00:54:25
16	100	10/29/2018	20:09:11	20:58:48
17	100	12/21/2018	16:12:36	17:02:59
18	100	02/12/2019	16:32:00	17:21:40
19	100	04/06/2019	11:08:11	11:58:27
20	100	05/29/2019	06:45:44	07:35:56
21	100	07/21/2019	03:04:28	03:54:27
22	100	09/12/2019	02:30:57	03:20:32
23	100	11/03/2019	21:22:44	22:12:27
24	100	12/26/2019	16:41:21	17:31:31
25	52	02/17/2020	17:35:45	18:01:01
26	100	04/10/2020	12:32:30	13:22:17
27	100	06/02/2020	09:09:32	09:59:09
28	100	07/25/2020	05:30:26	06:20:03
29	69	09/16/2020	01:46:33	02:20:51
30	91	11/08/2020	01:14:46	02:00:01
31	52	12/30/2020	21:30:29	21:56:09
32	100	02/21/2021	16:25:48	17:15:56
33	100	04/15/2021	22:40:27	23:30:04
34	100	06/08/2021	06:56:42	07:45:58
35	100	07/21/2021	07:23:38	08:13:32
36	100	09/02/2021	22:01:43	22:51:29
37	100	10/16/2021	16:13:35	17:04:08
38	100	11/29/2021	13:25:22	14:15:37
39	100	01/12/2022	09:48:03	10:37:14

Table S1: Observation schedule for the northern hemisphere. On each row, the perijove number (PJ), number of spins used to create the brightness map (Spins used), the date of observation (Date(s)), the time of the first spin used (Start time (UT)), and the time of the last spin used (End time (UT)) are indicated. Perijoves that are not used at all in this study are in red boxes.

South				
PJ	Spins used	Date(s)	Start time (UT)	End time (UT)
1	100	08/27/2016	14:02:25	14:53:07
2	0	/	/	/
3	100	12/11/2016	17:55:11	18:45:45
4	100	02/02/2017	13:44:43	14:34:59
5	100	03/27/2017	10:13:24	11:03:28
6	100	05/19/2017	06:55:06	07:45:04
7	100	07/11/2017	02:49:08	03:40:13
8	100	09/01/2017	22:48:10	23:38:28
9	100	10/24/2017	18:22:06	19:12:02
10	100	12/16/2017	19:14:09	20:04:45
11	100	02/07/2018	14:25:45	15:15:48
12	100	04/01/2018	10:42:45	11:33:52
13	100	05/24/2018	06:37:56	07:28:11
14	100	07/16/2018	06:15:39	07:05:15
15	100	09/07/2018	02:14:23	03:04:00
16	100	10/29/2018	21:48:47	22:38:59
17	100	12/21/2018	17:47:00	18:37:36
18	100	02/12/2019	18:19:36	19:09:16
19	100	04/06/2019	13:07:02	13:57:37
20	100	05/29/2019	08:47:55	09:38:41
21	100	07/21/2021	04:38:32	05:28:42
22	100	09/12/2019	04:21:26	05:11:03
23	100	11/03/2019	23:05:33	23:55:18
24	100	12/26/2019	18:57:47	19:47:52
25	100	02/17/2020	19:08:20	19:58:00
26	100	04/10/2020	14:43:20	15:33:33
27	100	06/02/2020	11:43:10	12:33:22
28	100	07/25/2020	06:53:19	07:43:24
29	100	09/16/2020	03:15:28	04:05:10
30	100	11/08/2020	02:53:12	03:42:51
31	100	12/30/2020	22:59:27	23:49:08
32	100	02/21/2021	18:47:20	19:37:01
33	100	04/16/2021	01:03:28	01:53:01
34	100	06/08/2021	08:41:14	09:30:56
35	100	07/21/2021	09:25:44	10:15:36
36	100	09/02 – 03/2021	23:57:23	00:48:00
37	100	10/16/2021	18:12:07	19:02:41
38	100	11/29/2021	15:45:05	16:35:17
39	100	01/12/2022	12:29:36	13:19:41

Table S2: Same as Table S1 but for the southern hemisphere.

PJ	North					
	MD		AF1		AF2	
	B15	SYM	B15	SYM	B15	SYM
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
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32						
33						
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35						
36						
37						
38						
39						

Table S3: List of the perijoves that have been used for each mask in the northern hemisphere. White boxes have been used, while grey boxes have been discarded.

PJ	South					
	MD		AF1		AF2	
	B15	SYM	B15	SYM	B15	SYM
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
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26						
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31						
32						
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35						
36						
37						
38						
39						

Table S4: Same as Table S3 but for the southern hemisphere.

		B15 sector Median Dusk-Dawn (GW)	SYM sector Median Dusk-Dawn (GW)
MD mask	North	27	56
	South	39	62
AF1 mask	North	53	76
	South	59	99
AF2 mask	North	59	85
	South	79	150

Table S5: Median dusk - dawn power difference for the MD, AF1 and AF2 masks in the southern and northern hemispheres, for both the B15 and SYM sectors

		B15 sector Mean / Variance (GW)		SYM sector Mean / Variance (GW)	
		Dawn	Dusk	Dawn	Dusk
		MD mask	North	16/11	49/29
	South	32/46	69/47	77/87	133/81
AF1 mask	North	30/37	71/34	67/66	135/63
	South	47/58	107/49	106/125	200/88
AF2 mask	North	31/37	75/36	82/97	149/68
	South	52/66	135/67	115/142	256/121

Table S6: Mean power and variance in the dawn and dusk sectors for the MD, AF1 and AF2 masks in the southern and northern hemispheres, for both the B15 and SYM sectors.

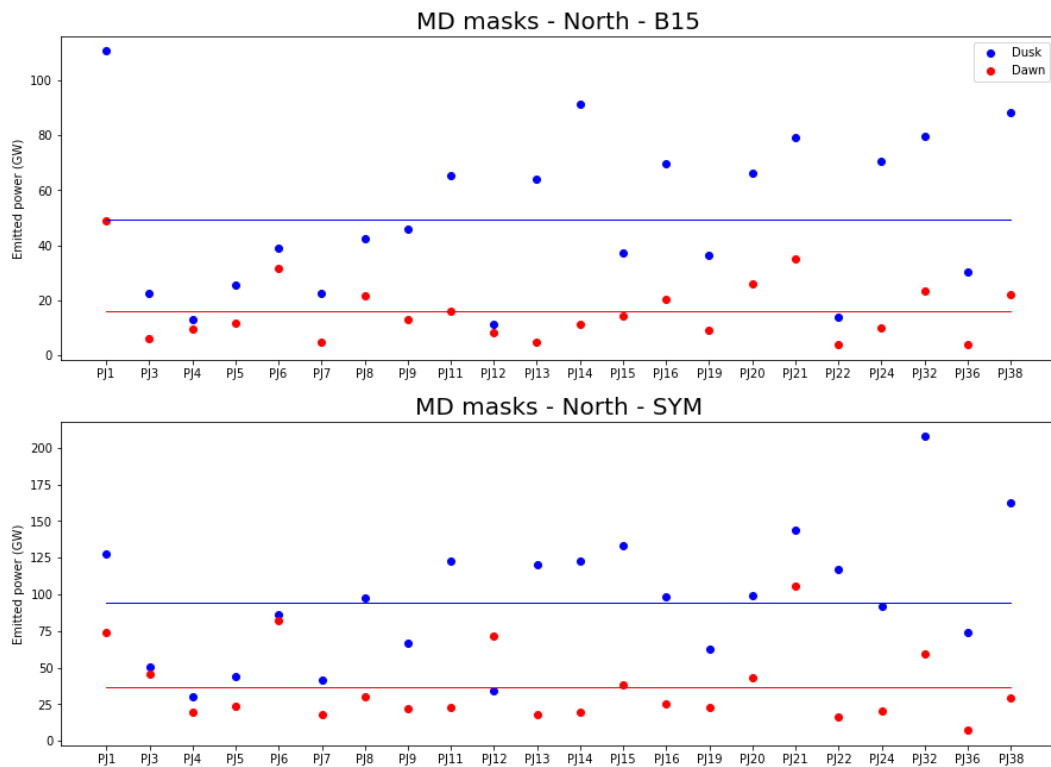


Figure S1: Emitted power for the MD masks in the northern hemisphere in both the B15 and SYM sectors for each perijove studied. Solid blue and red lines are the mean dusk and dawn emitted powers respectively.

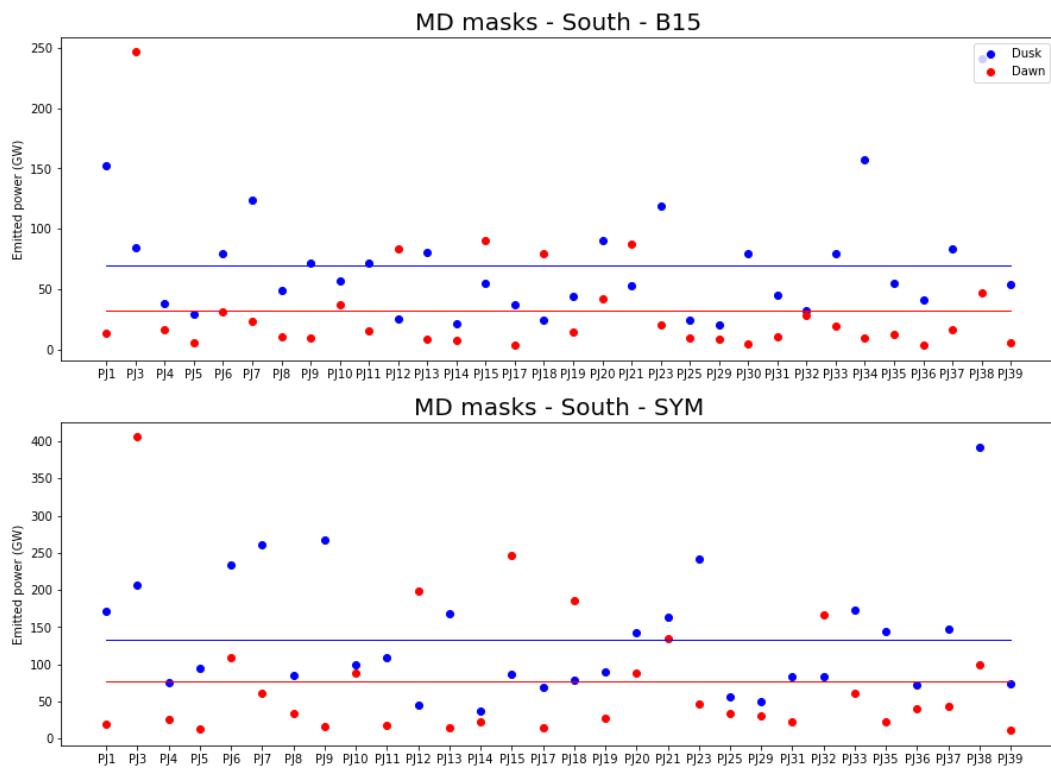


Figure S2: Same as Figure S1 but for the southern hemisphere.

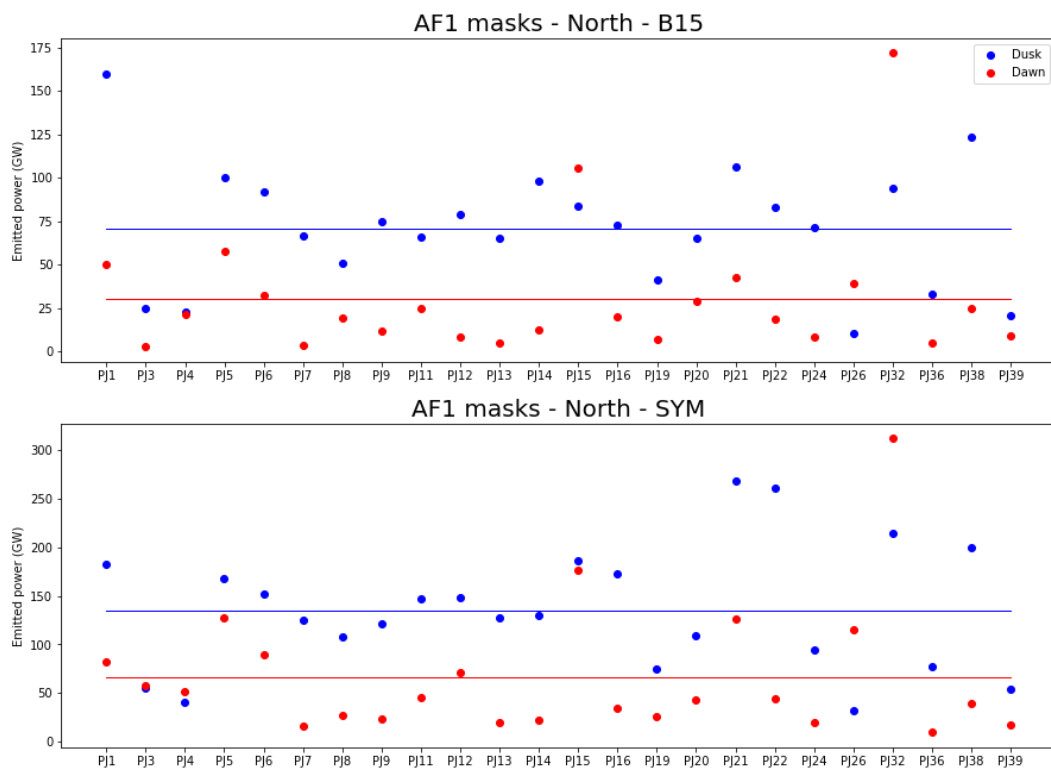


Figure S3: Same as Figure S1 but for the AF1 masks.

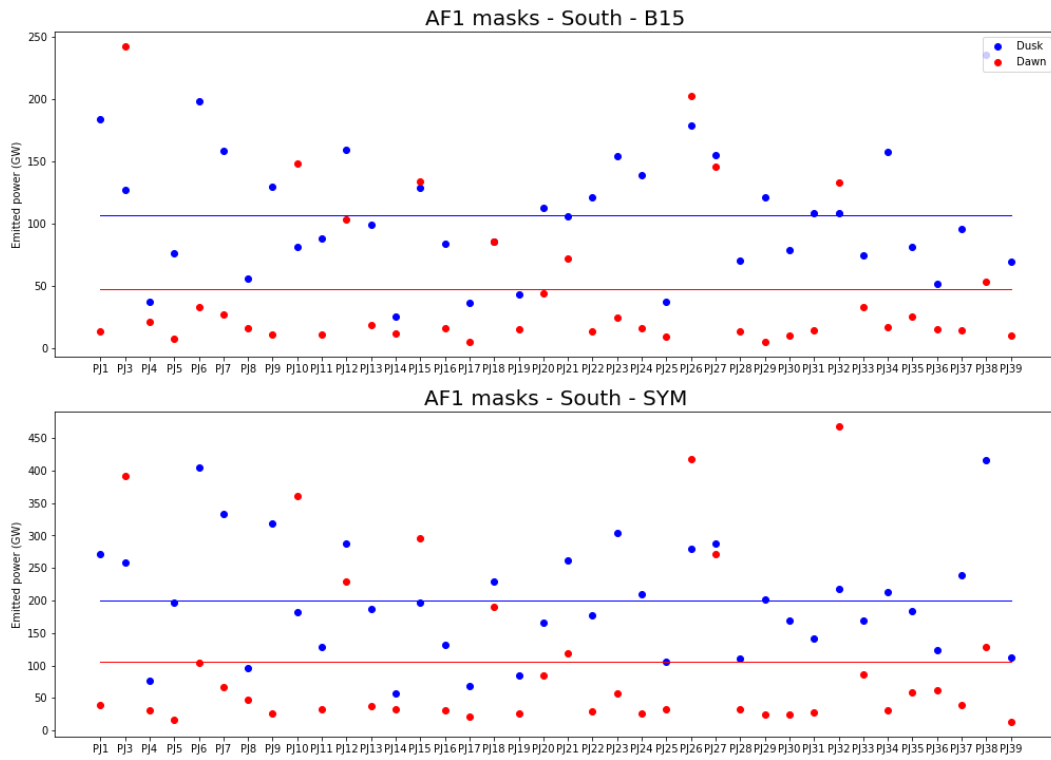


Figure S4: Same as Figure S3 but for the southern hemisphere.

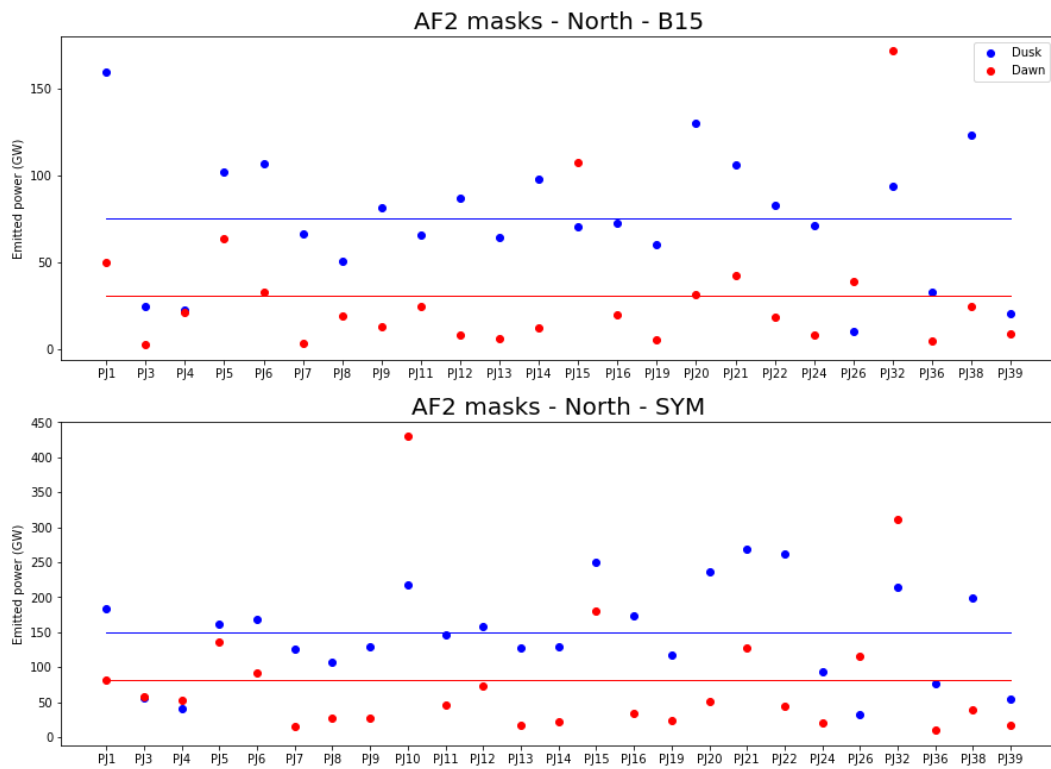


Figure S5: Same as Figure S1 but for the AF2 masks.

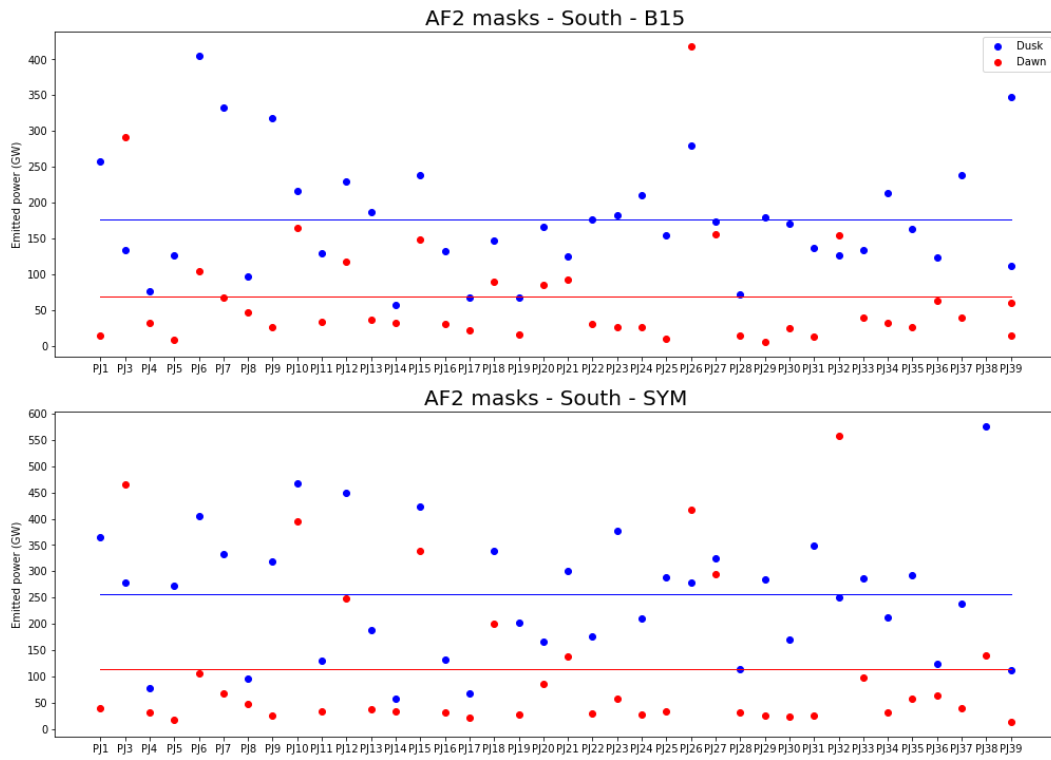
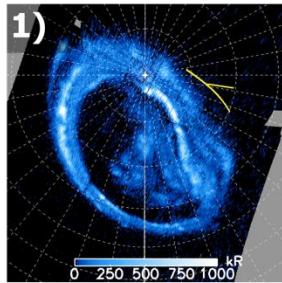


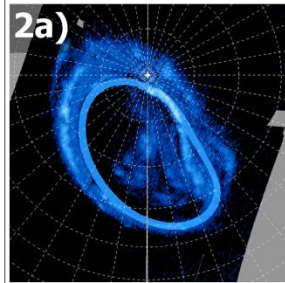
Figure S6: Same as Figure S5 but for the southern hemisphere.

PJ1 – North

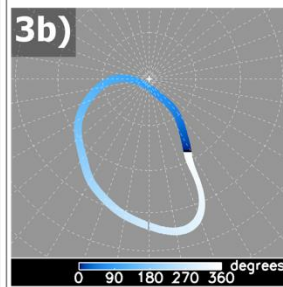
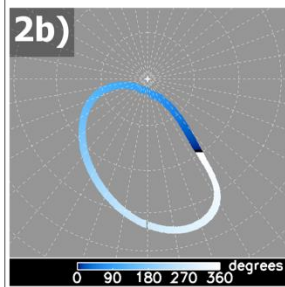
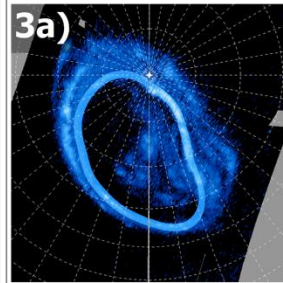
Brightness map



MD mask

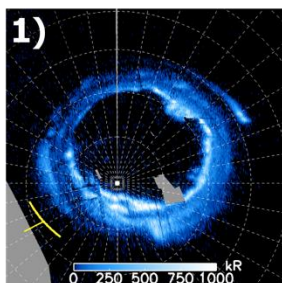


AF1 mask

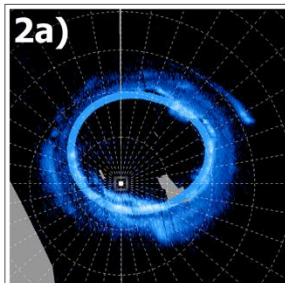


PJ1 – South

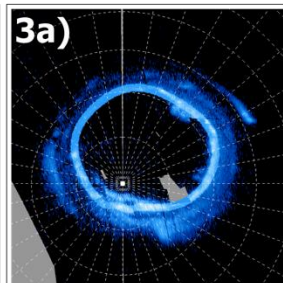
Brightness map



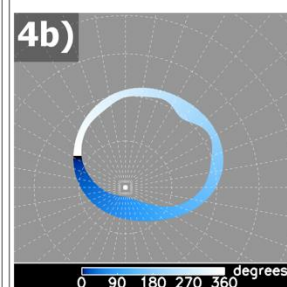
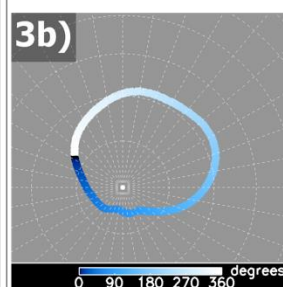
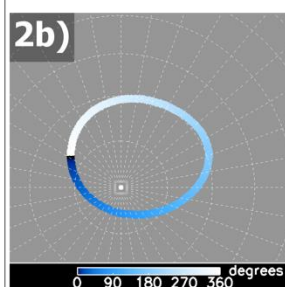
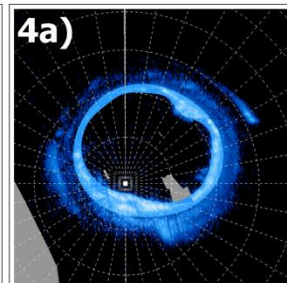
MD mask



AF1 mask

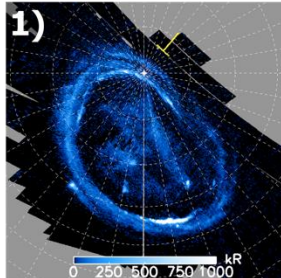


AF2 mask

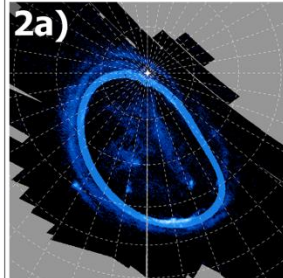


PJ3 – North

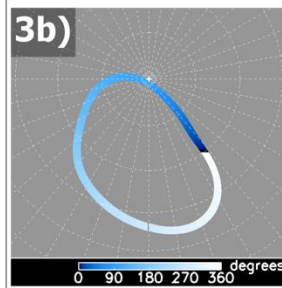
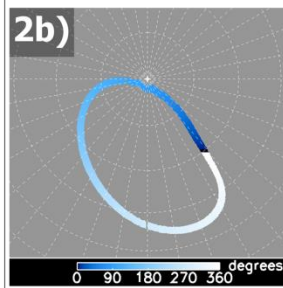
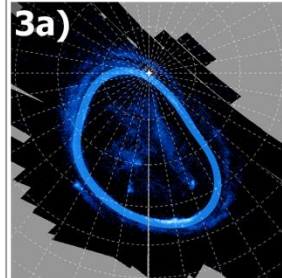
Brightness map



MD mask

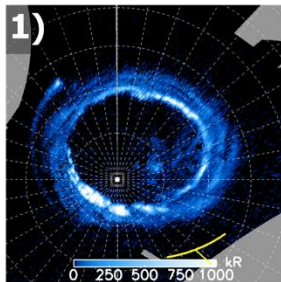


AF1 mask

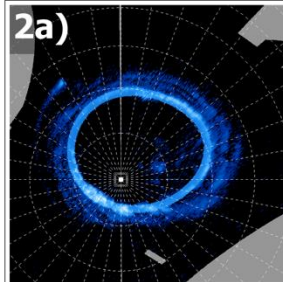


PJ3 – South

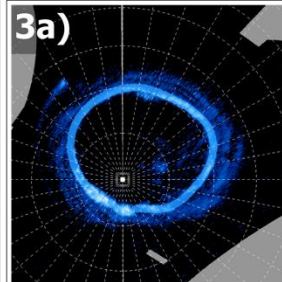
Brightness map



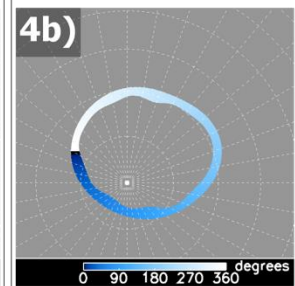
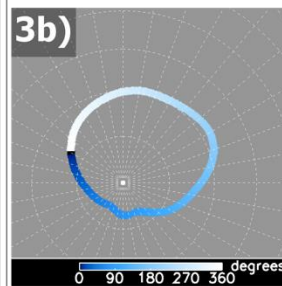
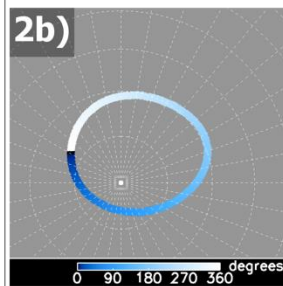
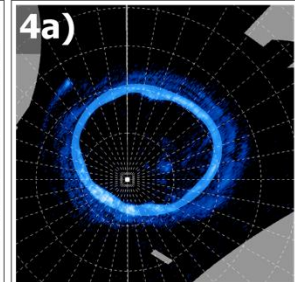
MD mask



AF1 mask

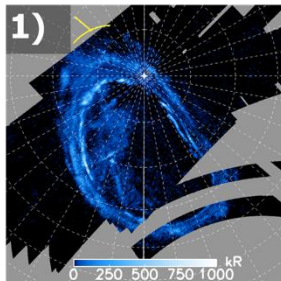


AF2 mask

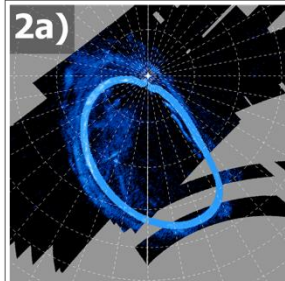


PJ4 – North

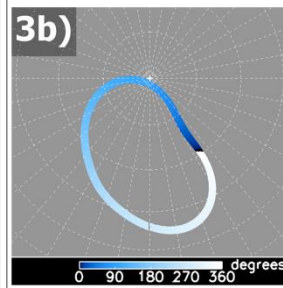
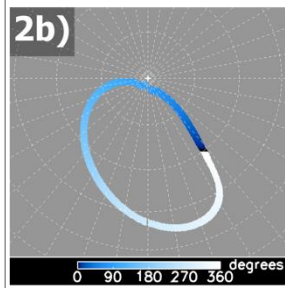
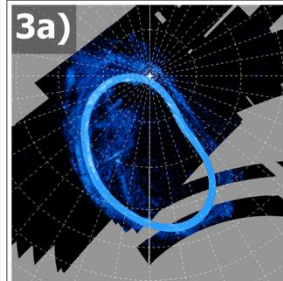
Brightness map



MD mask

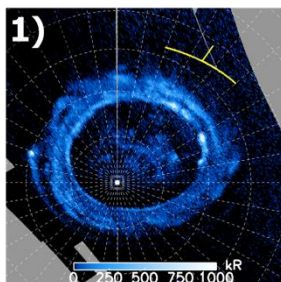


AF1 mask

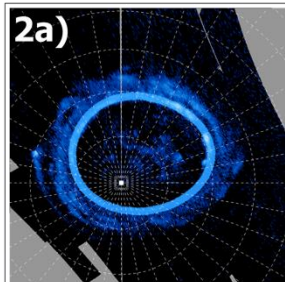


PJ4 – South

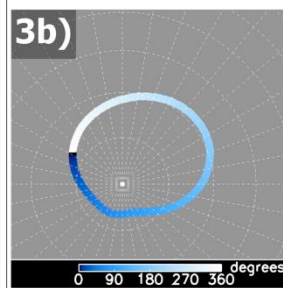
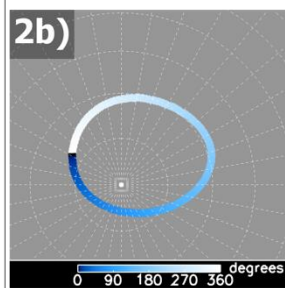
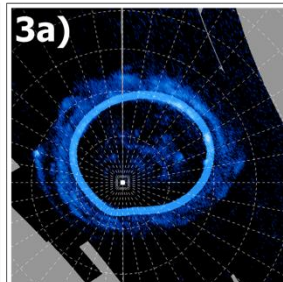
Brightness map



MD mask

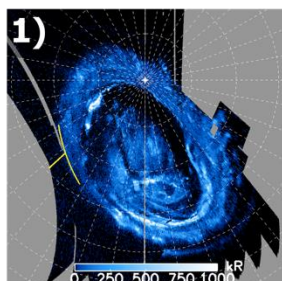


AF1 mask

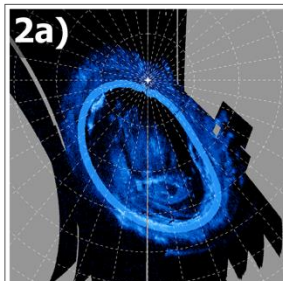


PJ5 – North

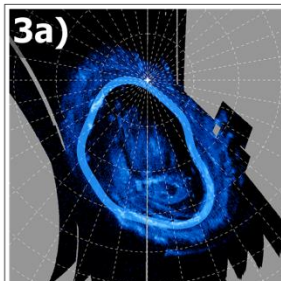
Brightness map



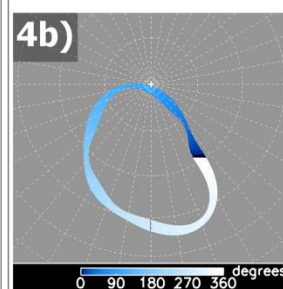
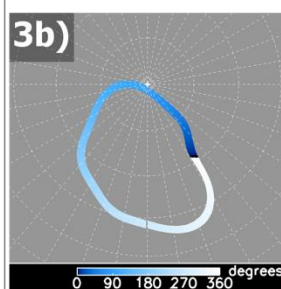
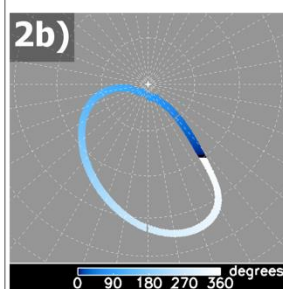
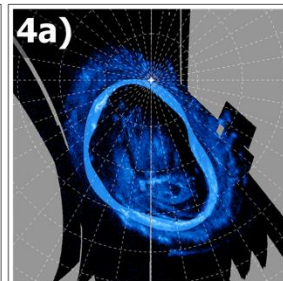
MD mask



AF1 mask



AF2 mask

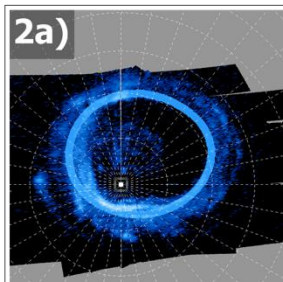


PJ5 – South

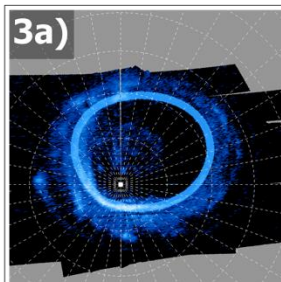
Brightness map



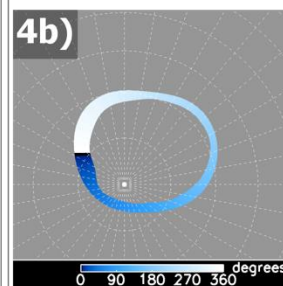
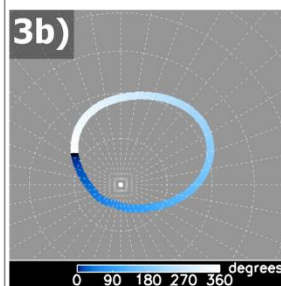
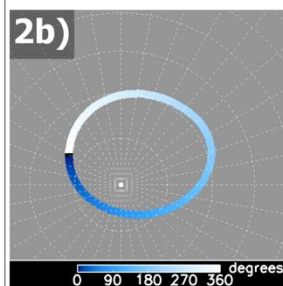
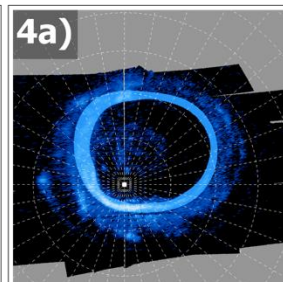
MD mask



AF1 mask

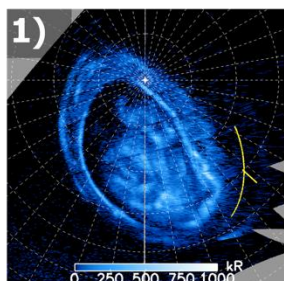


AF2 mask

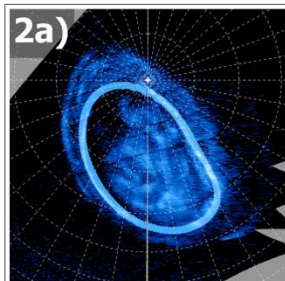


PJ6 – North

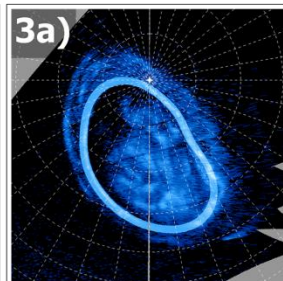
Brightness map



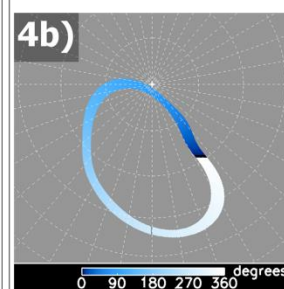
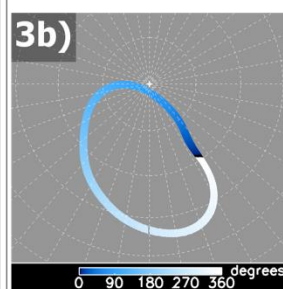
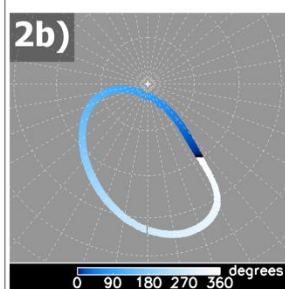
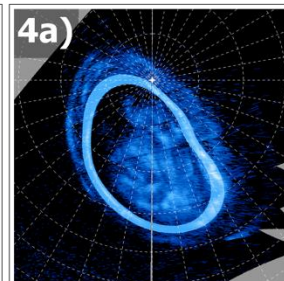
MD mask



AF1 mask

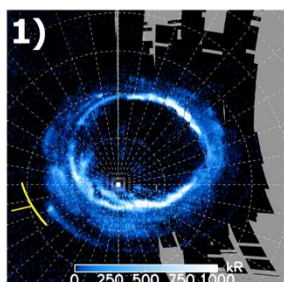


AF2 mask

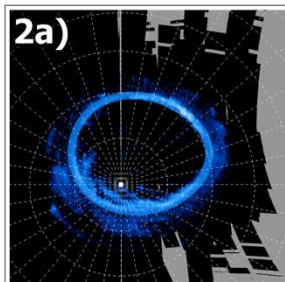


PJ6 – South

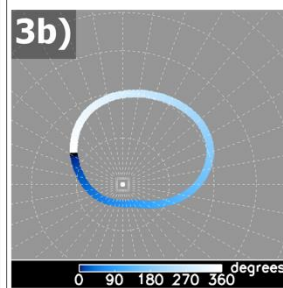
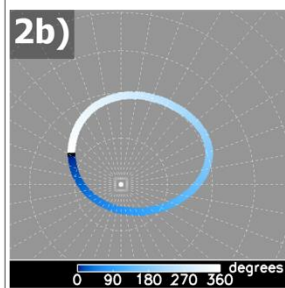
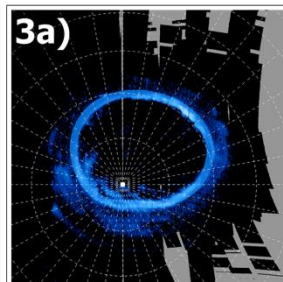
Brightness map



MD mask

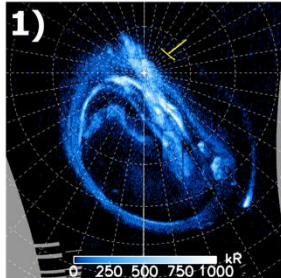


AF1 mask

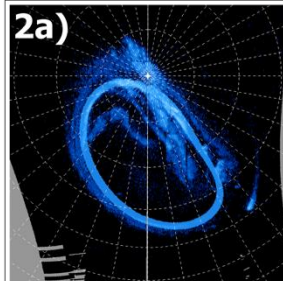


PJ7 – North

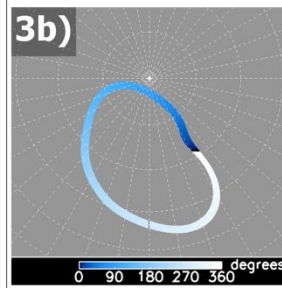
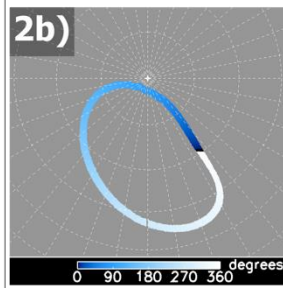
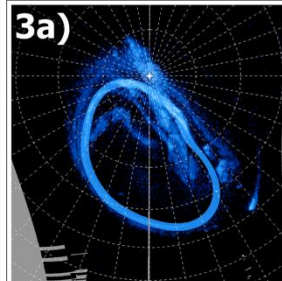
Brightness map



MD mask

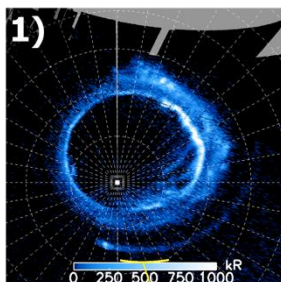


AF1 mask

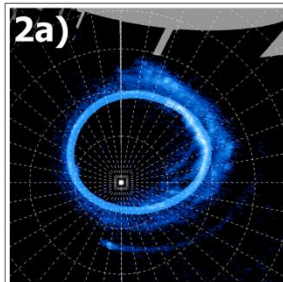


PJ7 – South

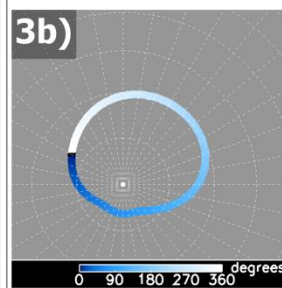
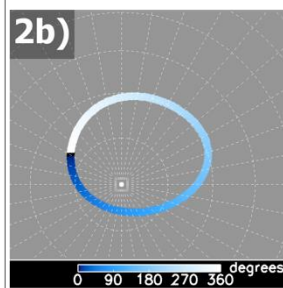
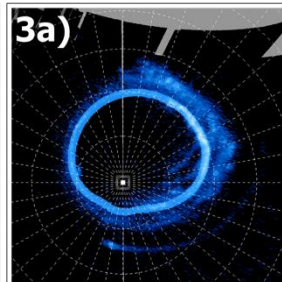
Brightness map



MD mask

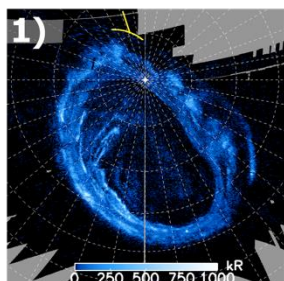


AF1 mask

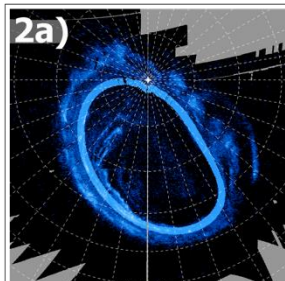


PJ8 – North

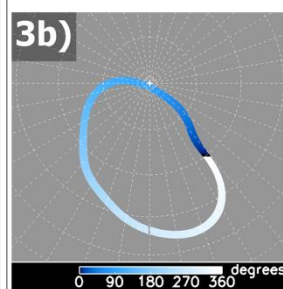
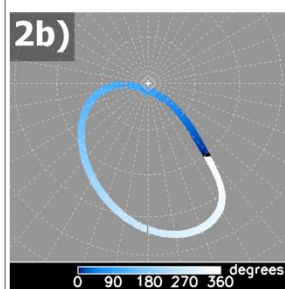
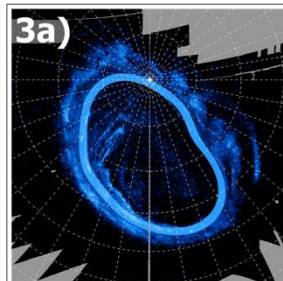
Brightness map



MD mask

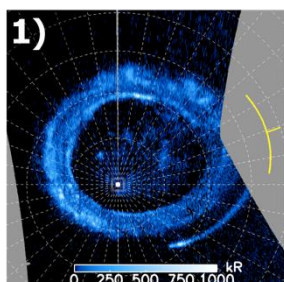


AF1 mask

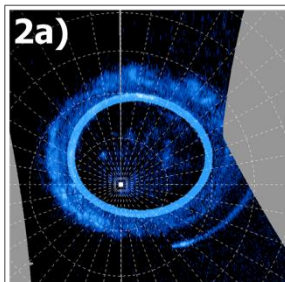


PJ8 – South

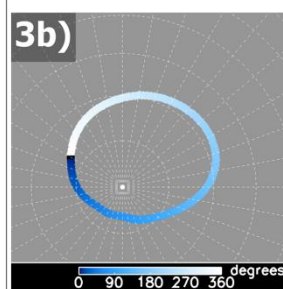
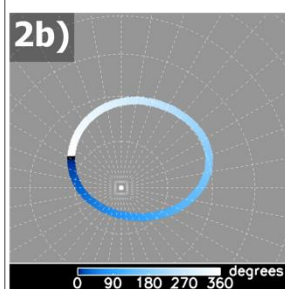
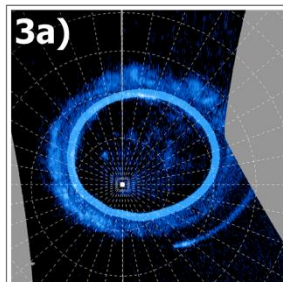
Brightness map



MD mask

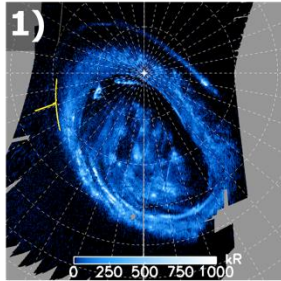


AF1 mask

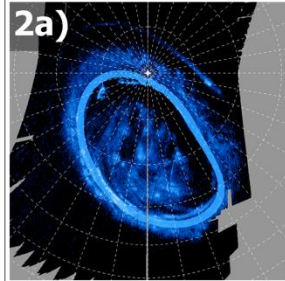


PJ9 – North

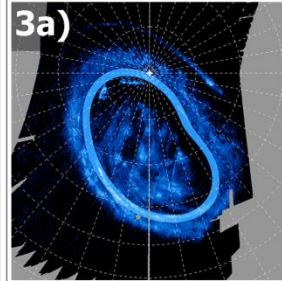
Brightness map



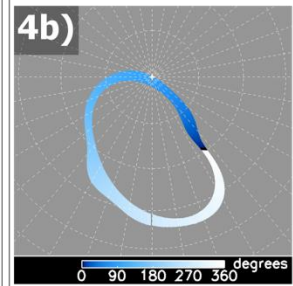
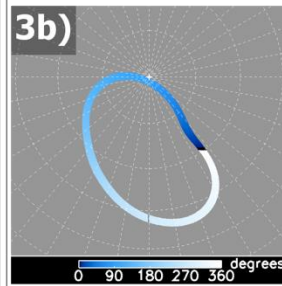
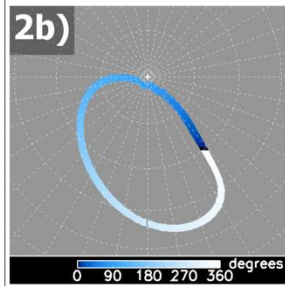
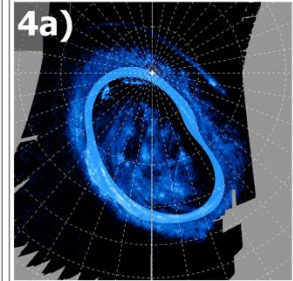
MD mask



AF1 mask

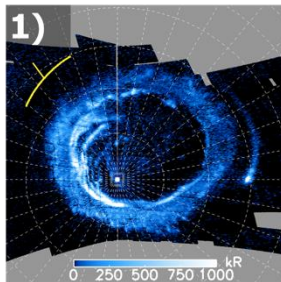


AF2 mask

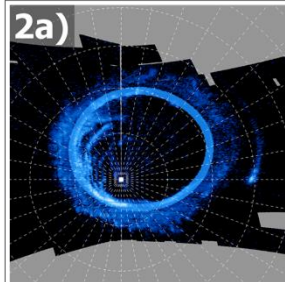


PJ9 – South

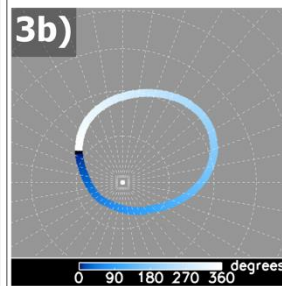
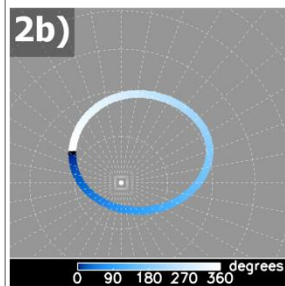
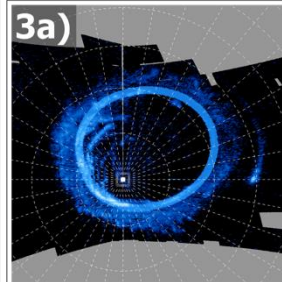
Brightness map



MD mask

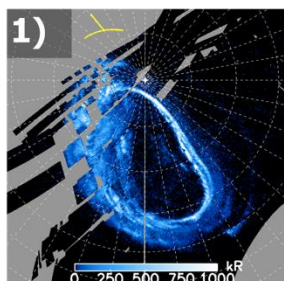


AF1 mask

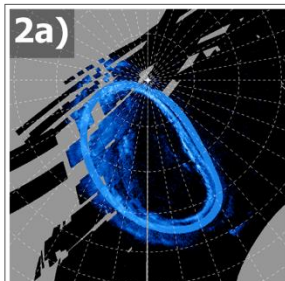


PJ10 – North

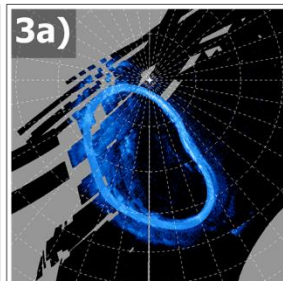
Brightness map



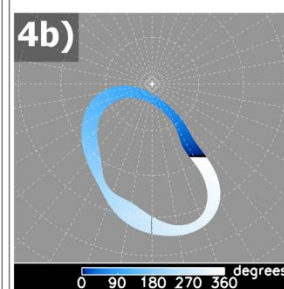
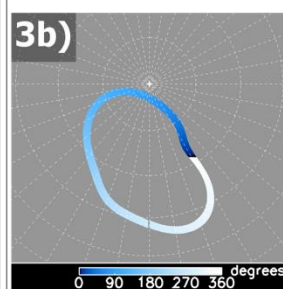
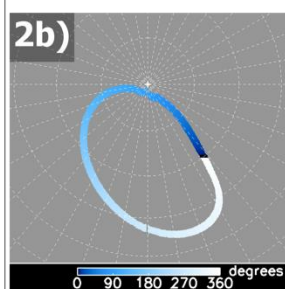
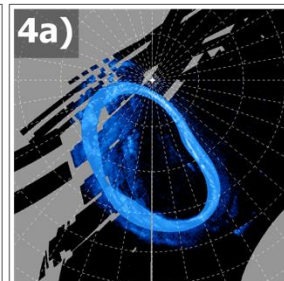
MD mask



AF1 mask

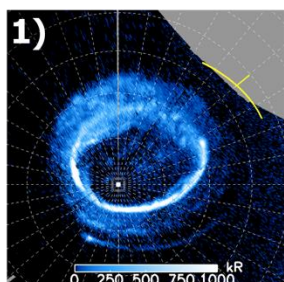


AF2 mask

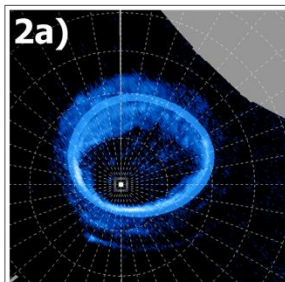


PJ10 – South

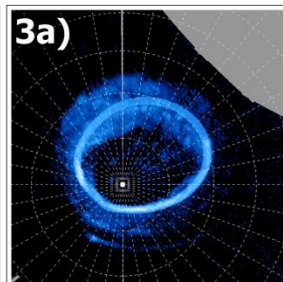
Brightness map



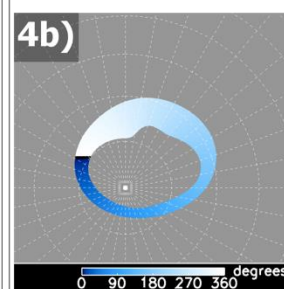
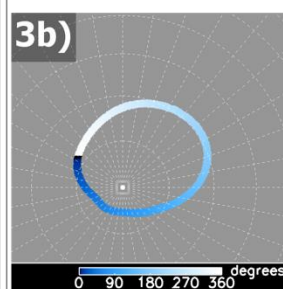
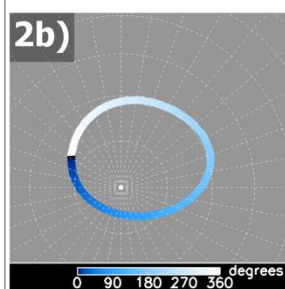
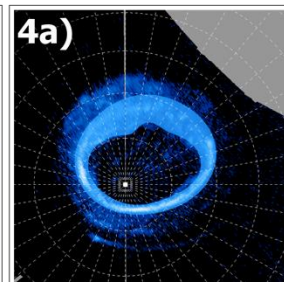
MD mask



AF1 mask

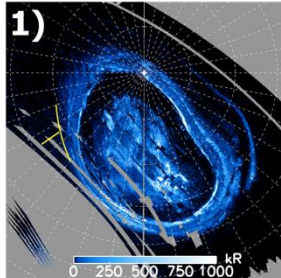


AF2 mask

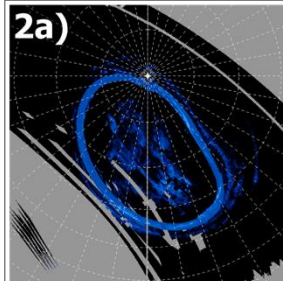


PJ11 – North

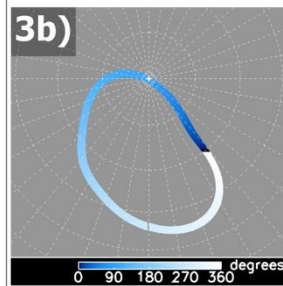
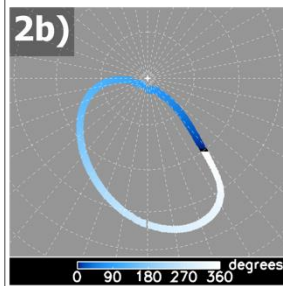
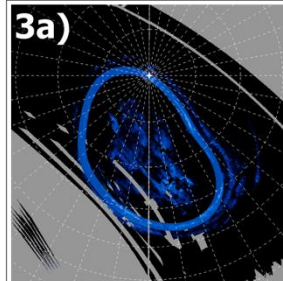
Brightness map



MD mask

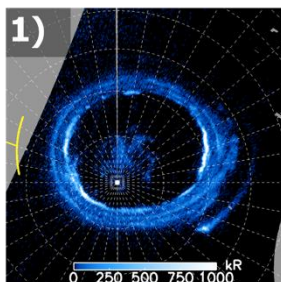


AF1 mask

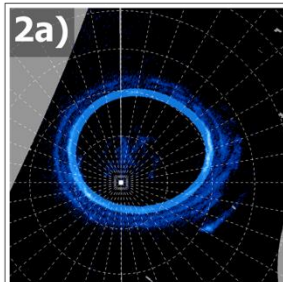


PJ11 – South

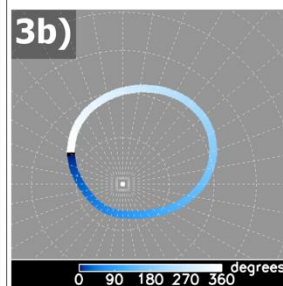
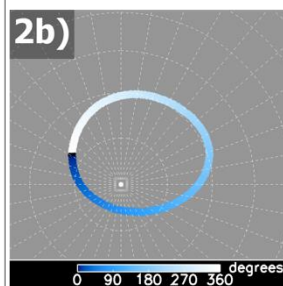
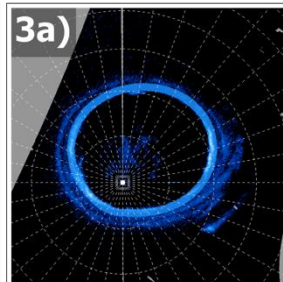
Brightness map



MD mask

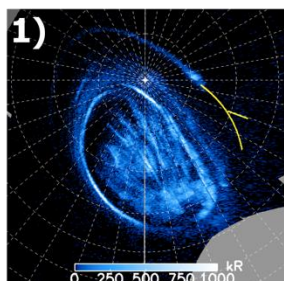


AF1 mask

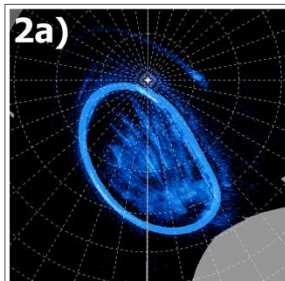


PJ12 – North

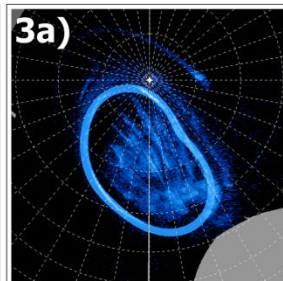
Brightness map



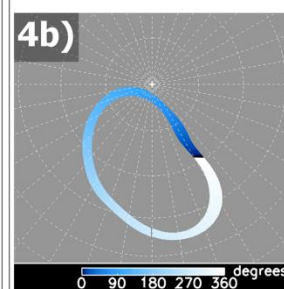
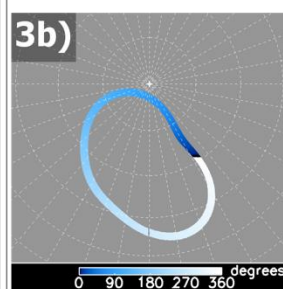
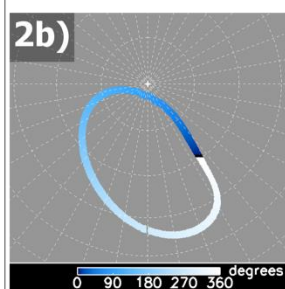
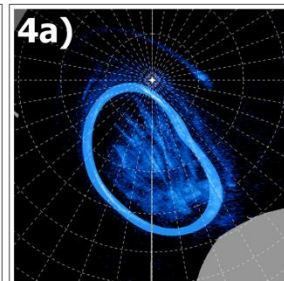
MD mask



AF1 mask

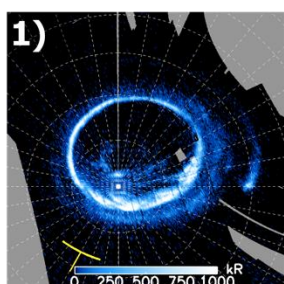


AF2 mask

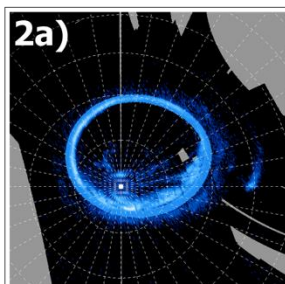


PJ12 – South

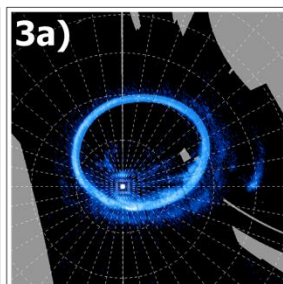
Brightness map



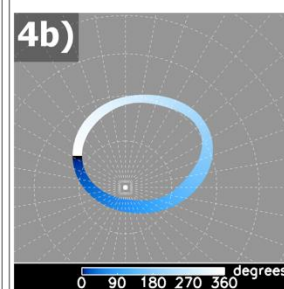
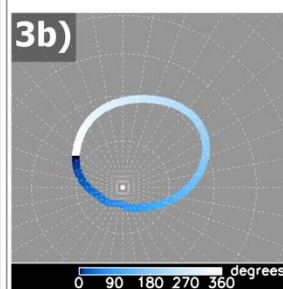
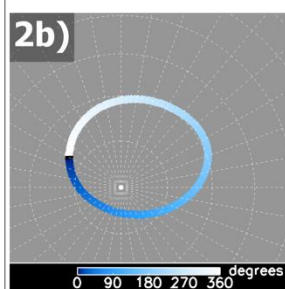
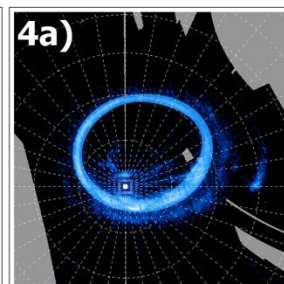
MD mask



AF1 mask

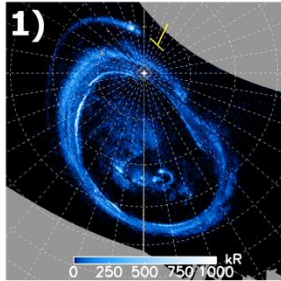


AF2 mask

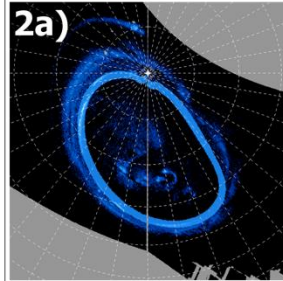


PJ13 – North

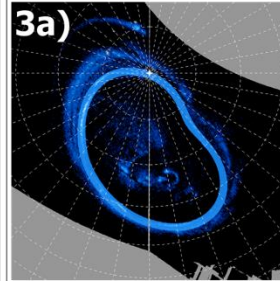
Brightness map



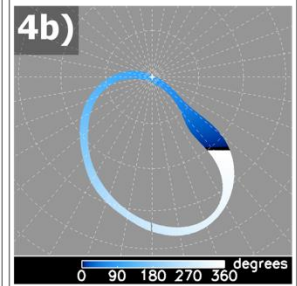
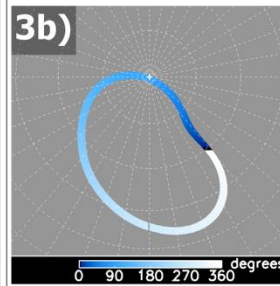
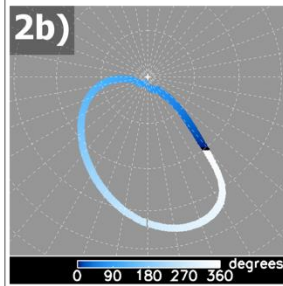
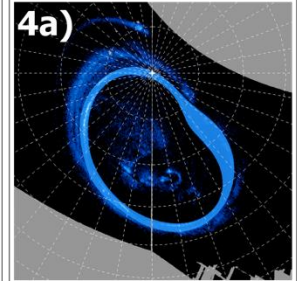
MD mask



AF1 mask

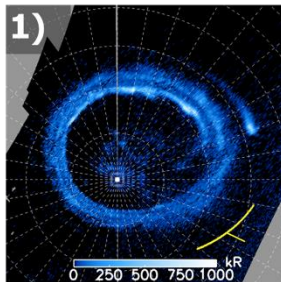


AF2 mask

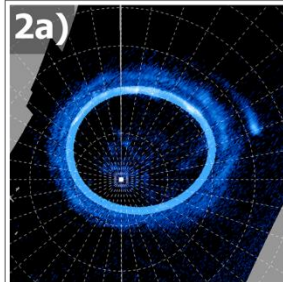


PJ13 – South

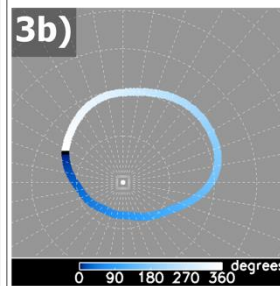
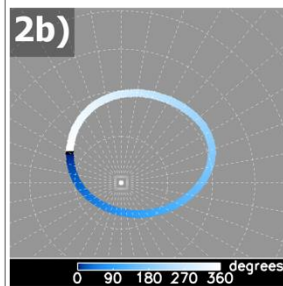
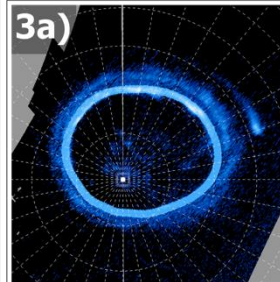
Brightness map



MD mask

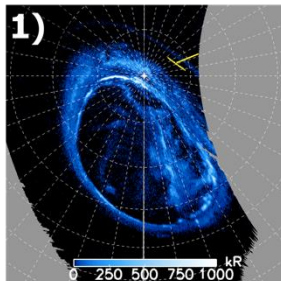


AF1 mask

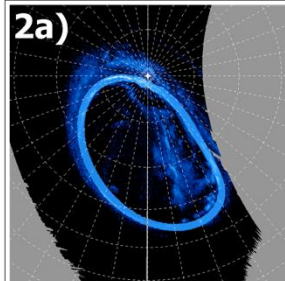


PJ14 – North

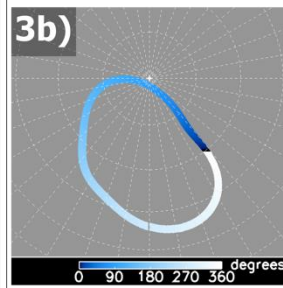
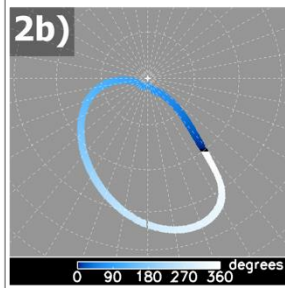
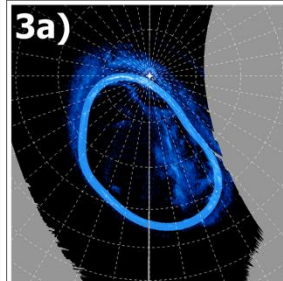
Brightness map



MD mask

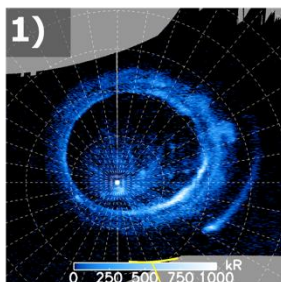


AF1 mask

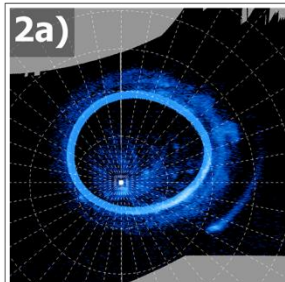


PJ14 – South

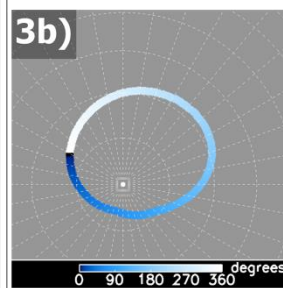
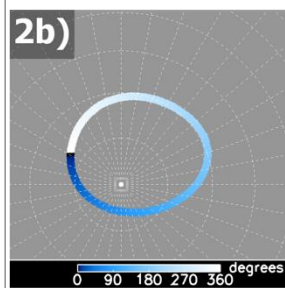
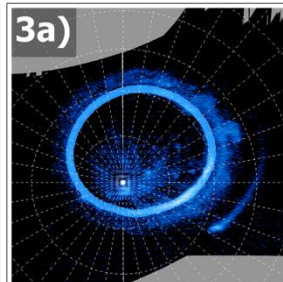
Brightness map



MD mask

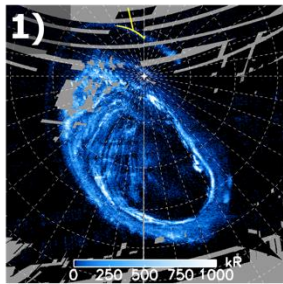


AF1 mask

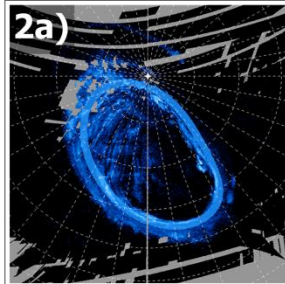


PJ15 – North

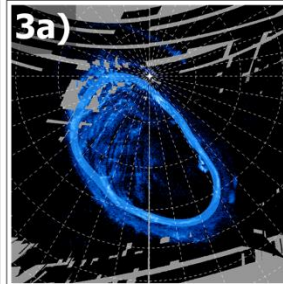
Brightness map



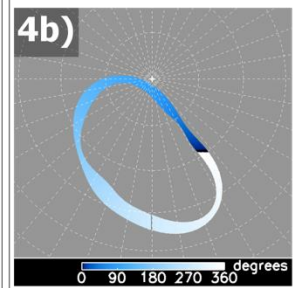
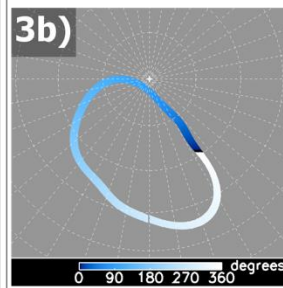
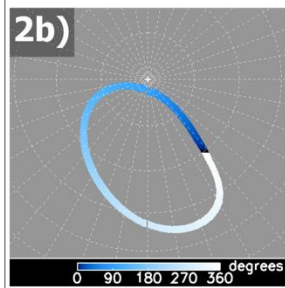
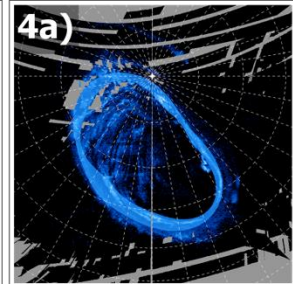
MD mask



AF1 mask

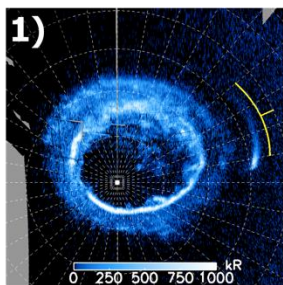


AF2 mask

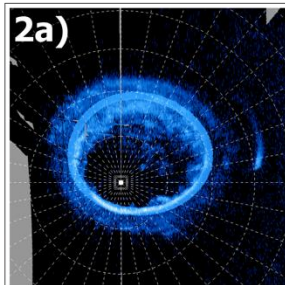


PJ15 – South

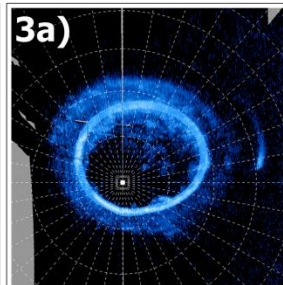
Brightness map



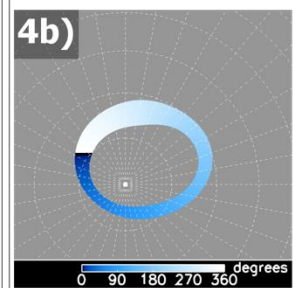
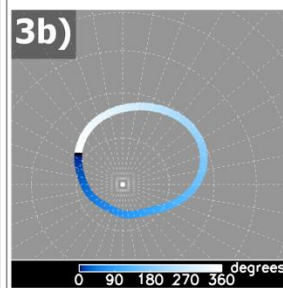
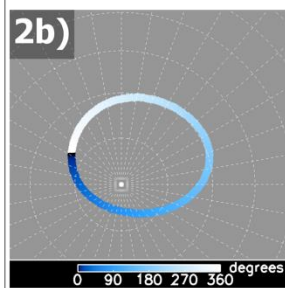
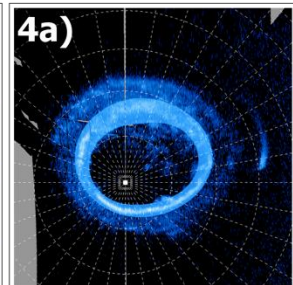
MD mask



AF1 mask

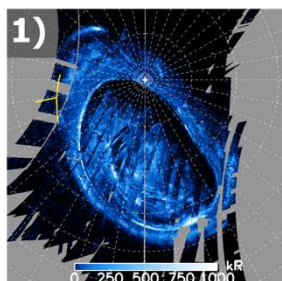


AF2 mask

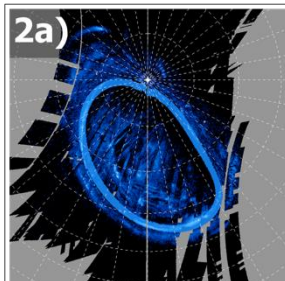


PJ16 – North

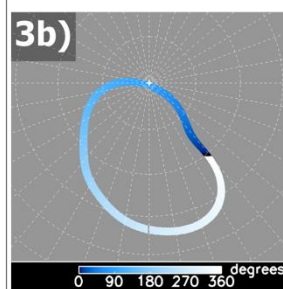
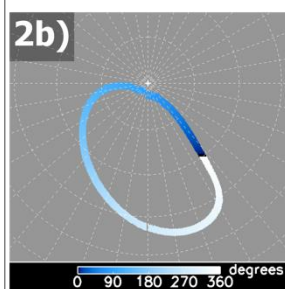
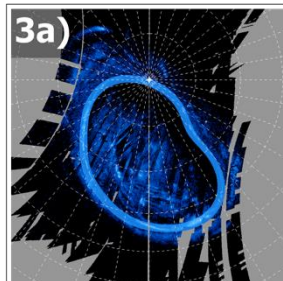
Brightness map



MD mask

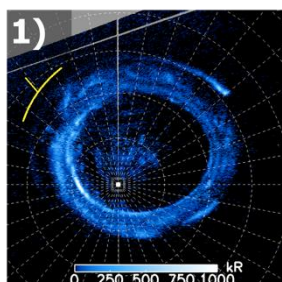


AF1 mask

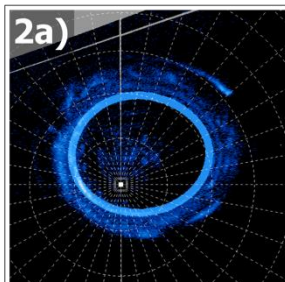


PJ16 – South

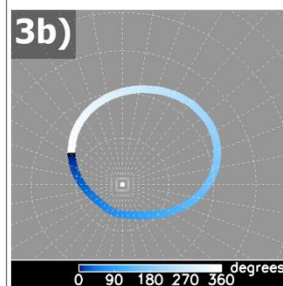
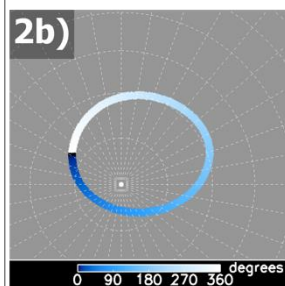
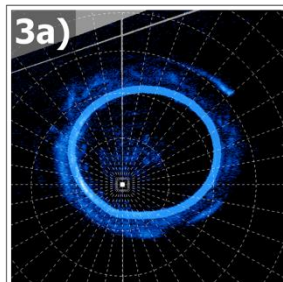
Brightness map



MD mask

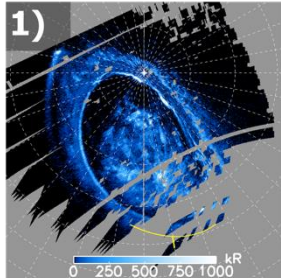


AF1 mask



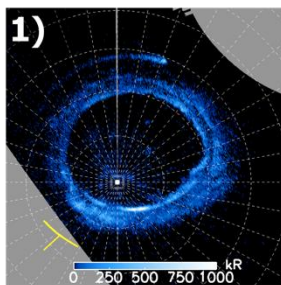
PJ17 – North

Brightness map

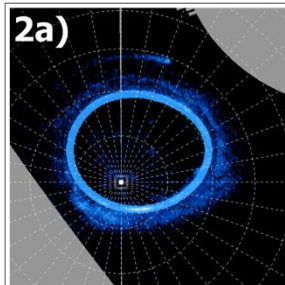


PJ17 – South

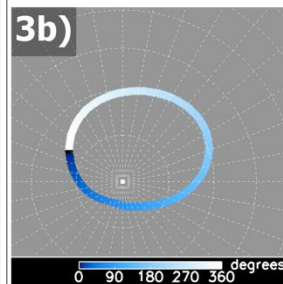
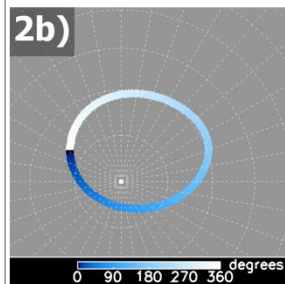
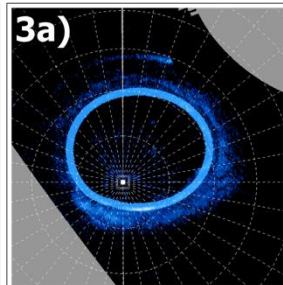
Brightness map



MD mask

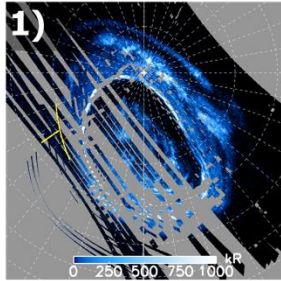


AF1 mask



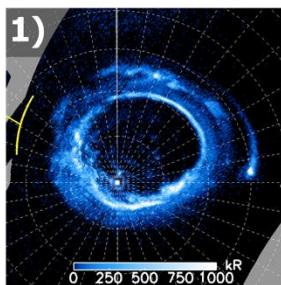
PJ18 – North

Brightness map

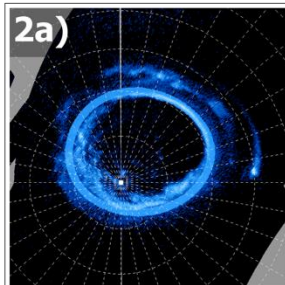


PJ18 – South

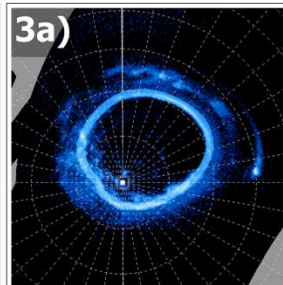
Brightness map



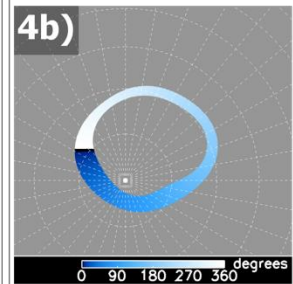
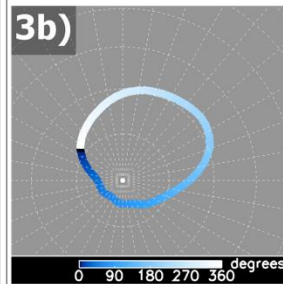
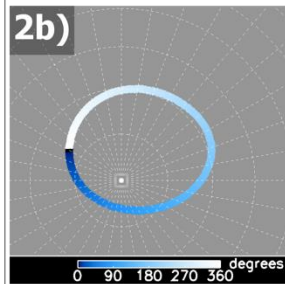
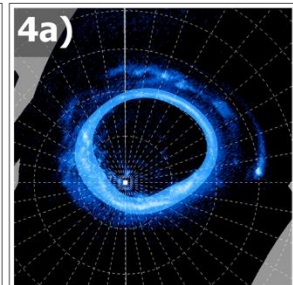
MD mask



AF1 mask

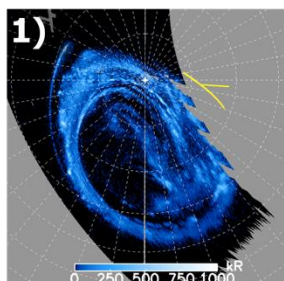


AF2 mask

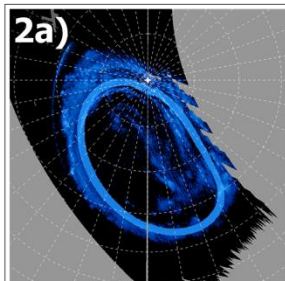


PJ19 – North

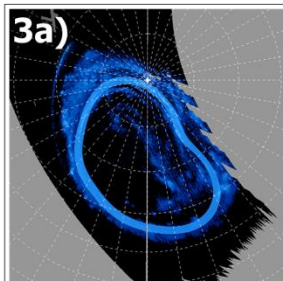
Brightness map



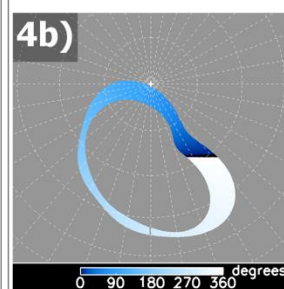
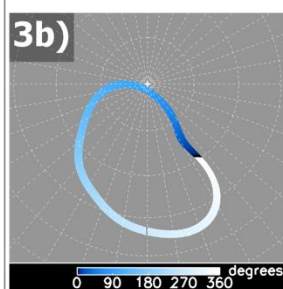
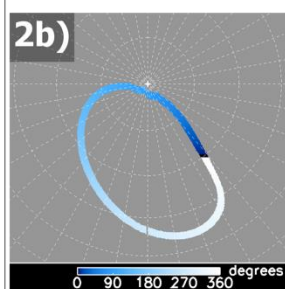
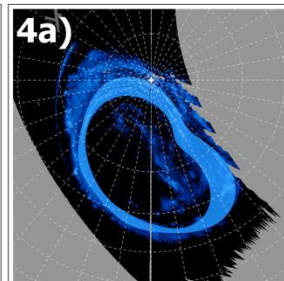
MD mask



AF1 mask

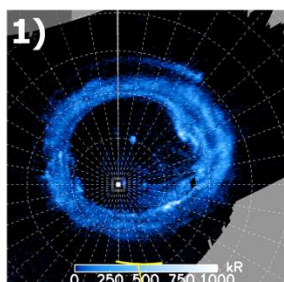


AF2 mask

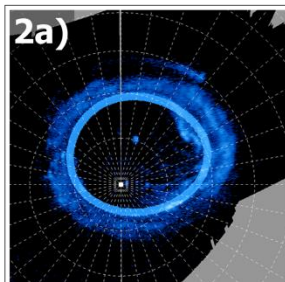


PJ19 – South

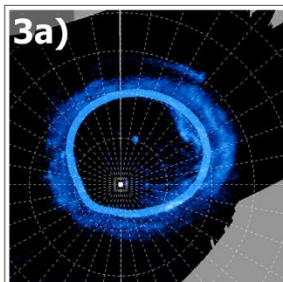
Brightness map



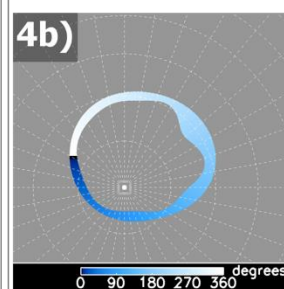
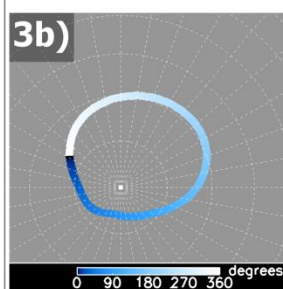
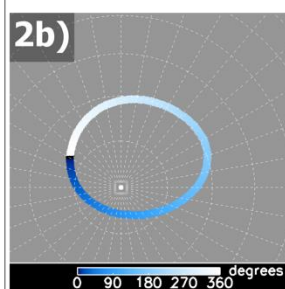
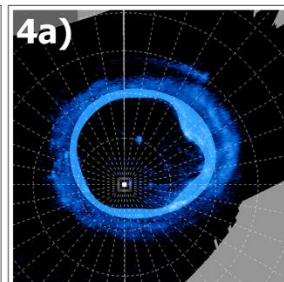
MD mask



AF1 mask

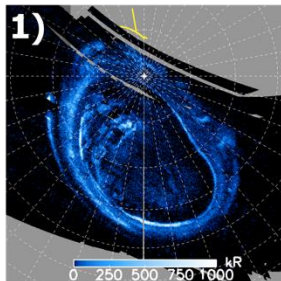


AF2 mask

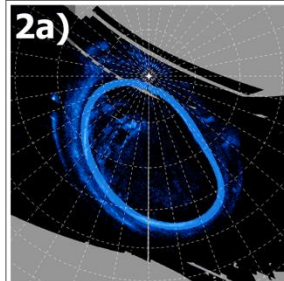


PJ20 – North

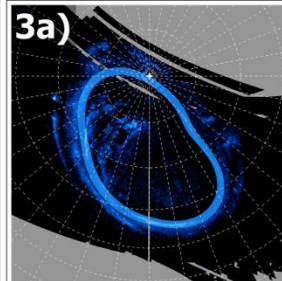
Brightness map



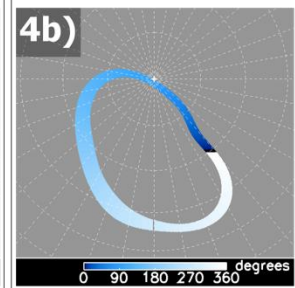
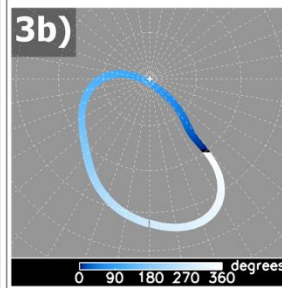
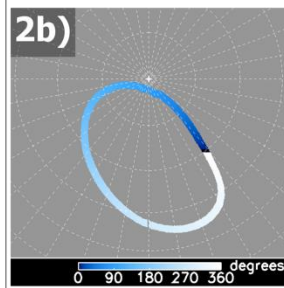
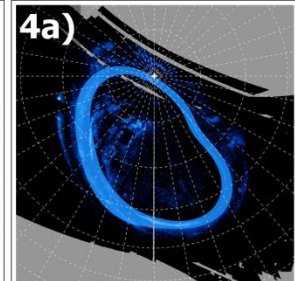
MD mask



AF1 mask

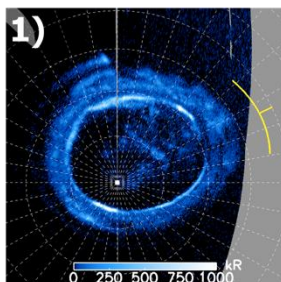


AF2 mask

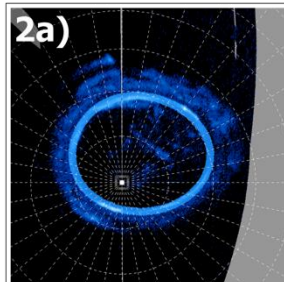


PJ20 – South

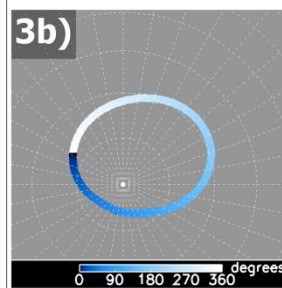
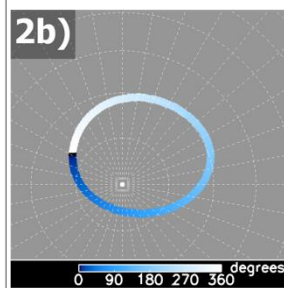
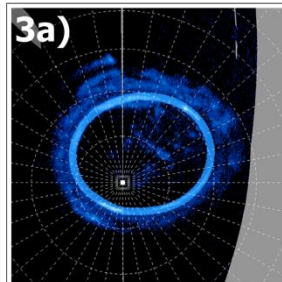
Brightness map



MD mask

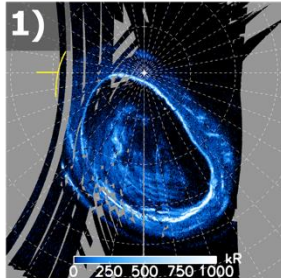


AF1 mask

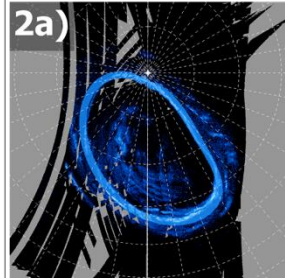


PJ21 – North

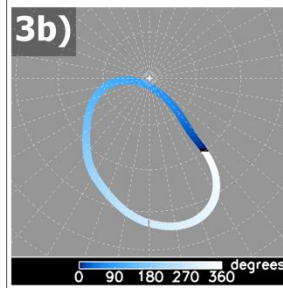
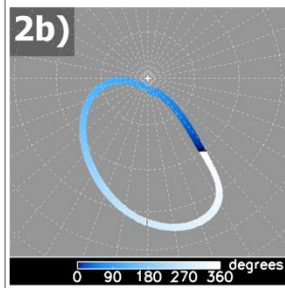
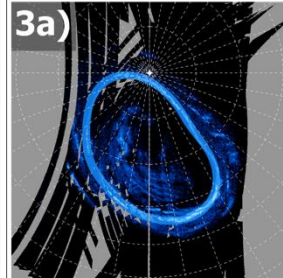
Brightness map



MD mask

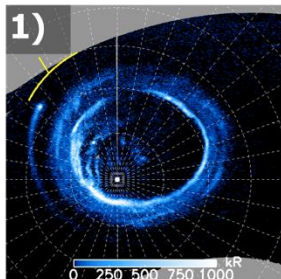


AF1 mask

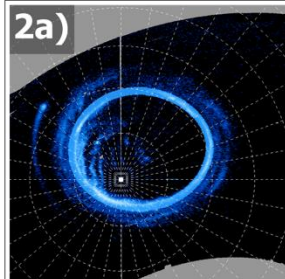


PJ21 – South

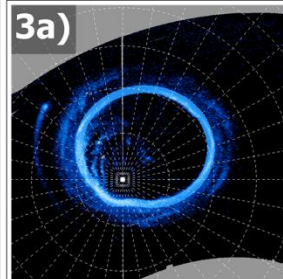
Brightness map



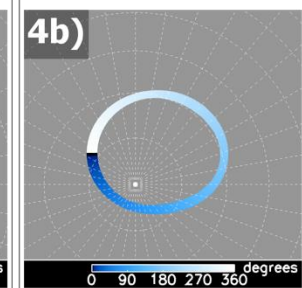
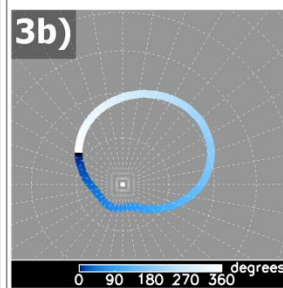
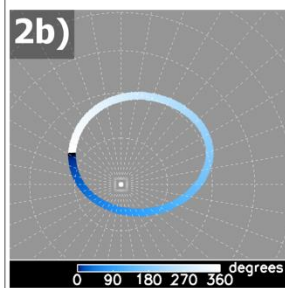
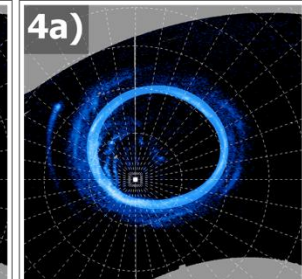
MD mask



AF1 mask

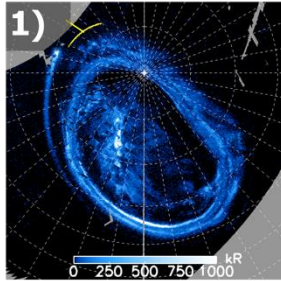


AF2 mask

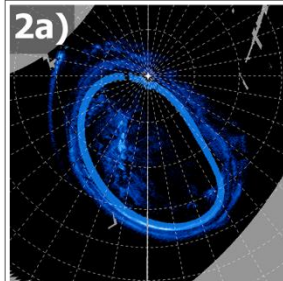


PJ22 – North

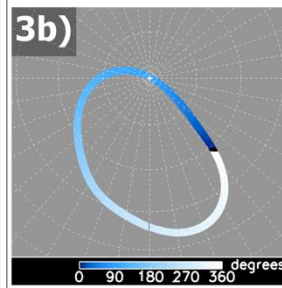
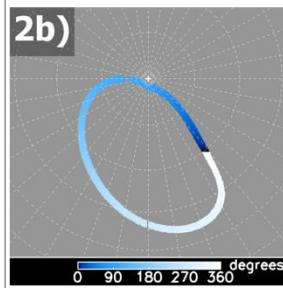
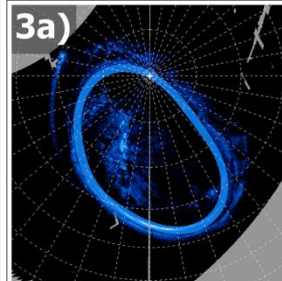
Brightness map



MD mask

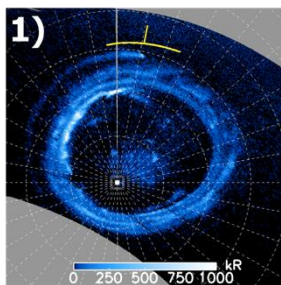


AF1 mask

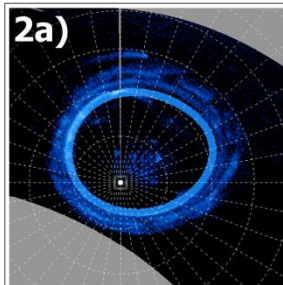


PJ22 – South

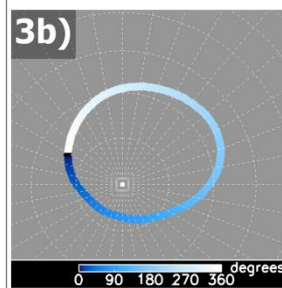
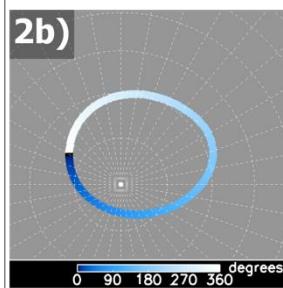
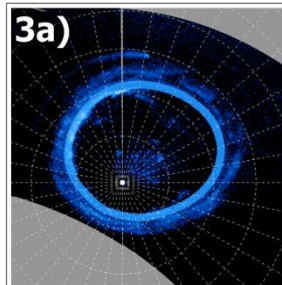
Brightness map



MD mask

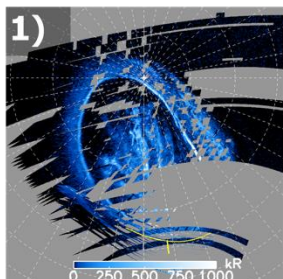


AF1 mask



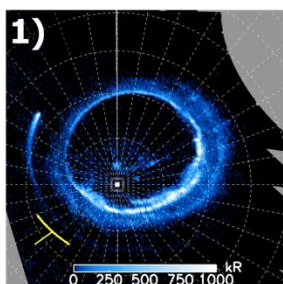
PJ23 – North

Brightness map

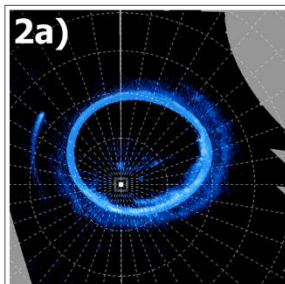


PJ23 – South

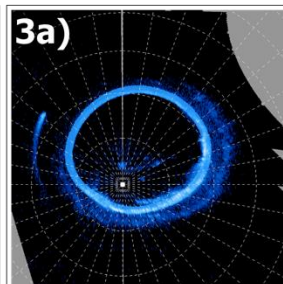
Brightness map



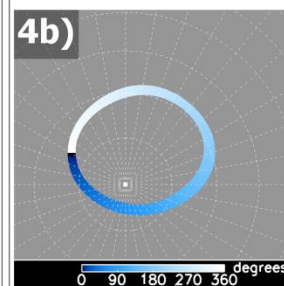
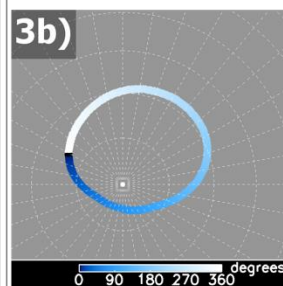
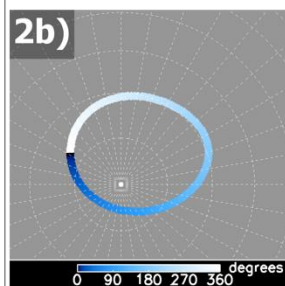
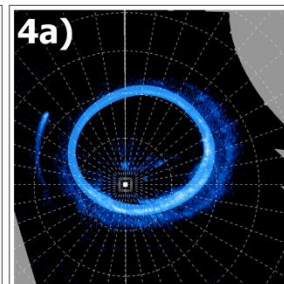
MD mask



AF1 mask

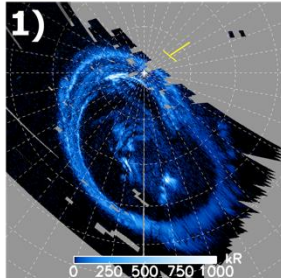


AF2 mask

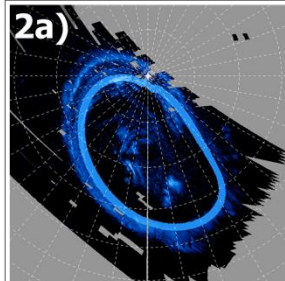


PJ24 – North

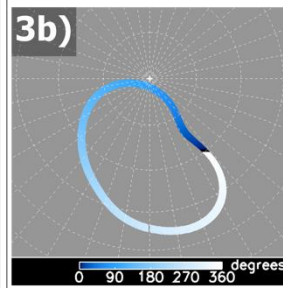
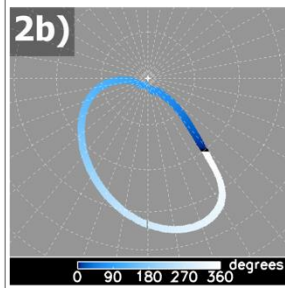
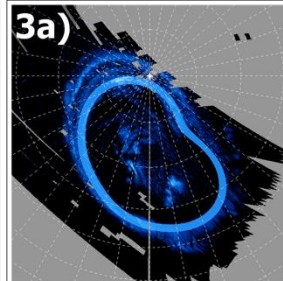
Brightness map



MD mask

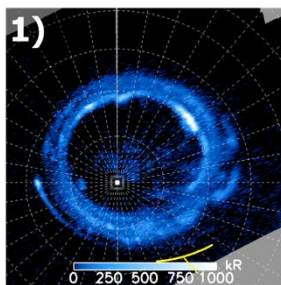


AF1 mask

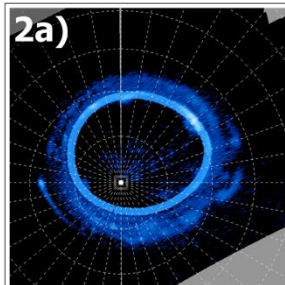


PJ24 – South

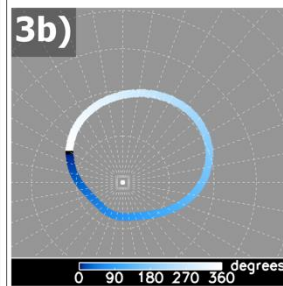
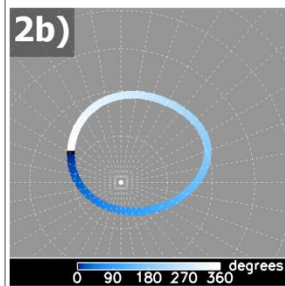
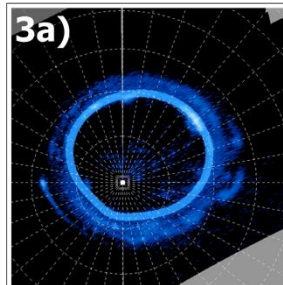
Brightness map



MD mask

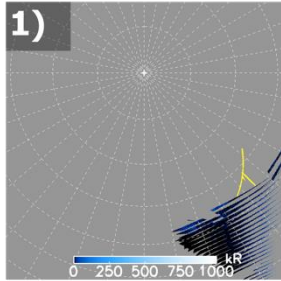


AF1 mask



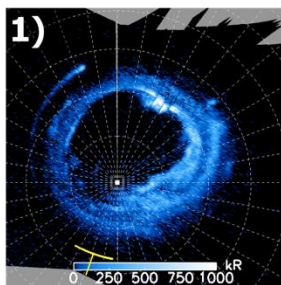
PJ25 – North

Brightness map

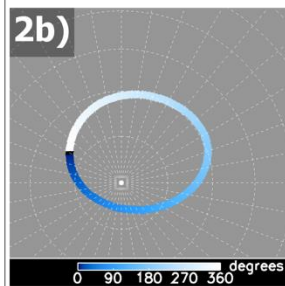
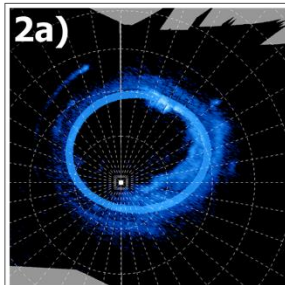


PJ25 – South

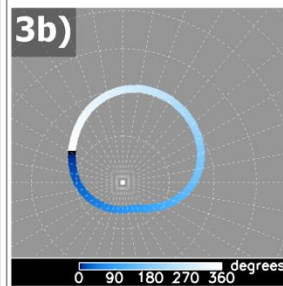
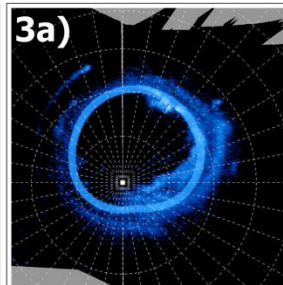
Brightness map



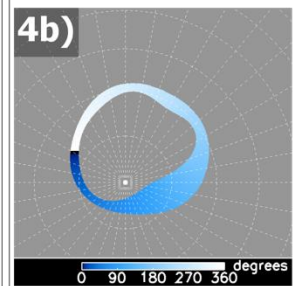
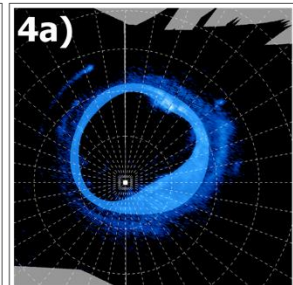
MD mask



AF1 mask

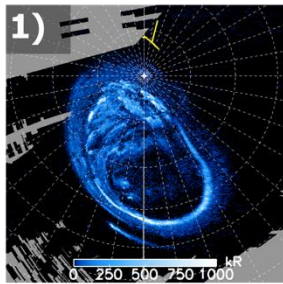


AF2 mask

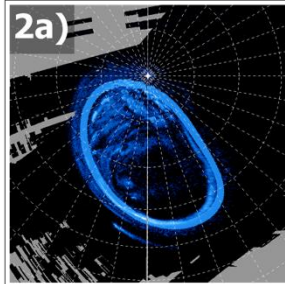


PJ26 – North

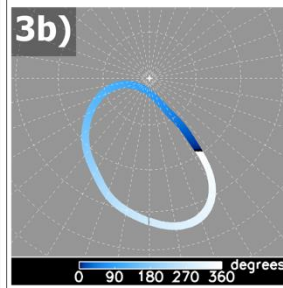
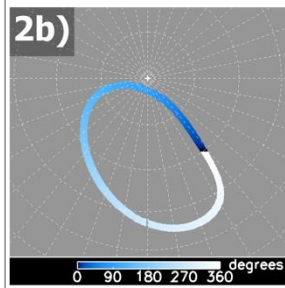
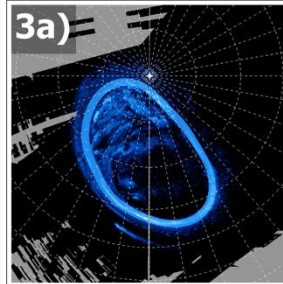
Brightness map



MD mask

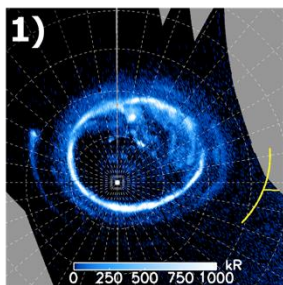


AF1 mask

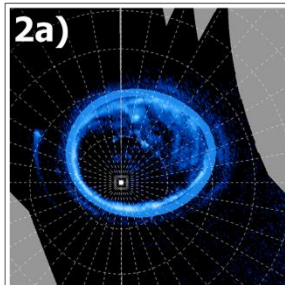


PJ26 – South

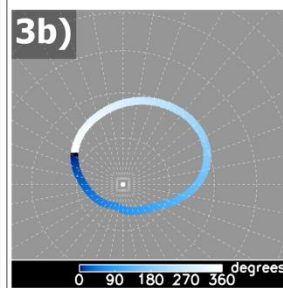
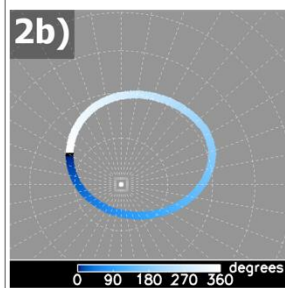
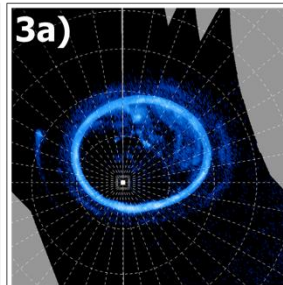
Brightness map



MD mask

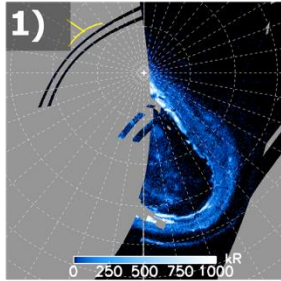


AF1 mask



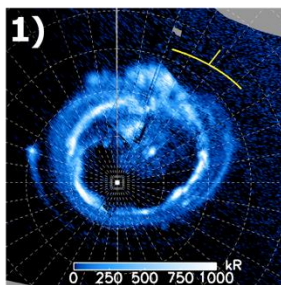
PJ27 – North

Brightness map

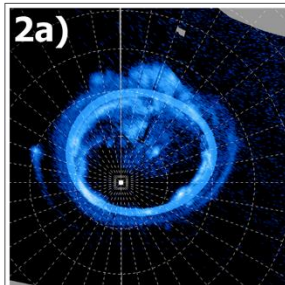


PJ27 – South

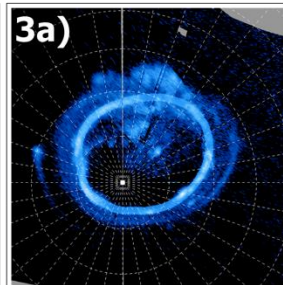
Brightness map



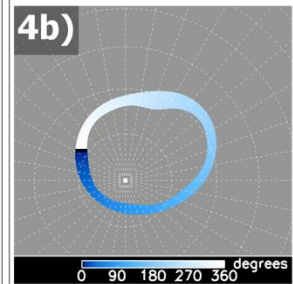
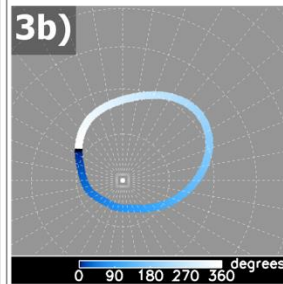
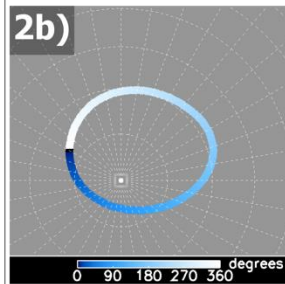
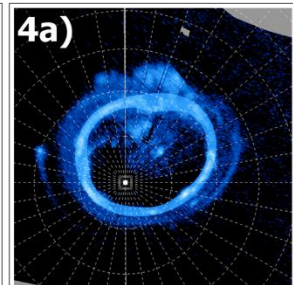
MD mask



AF1 mask

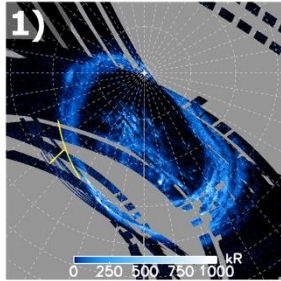


AF2 mask



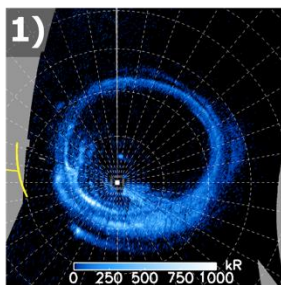
PJ28 – North

Brightness map

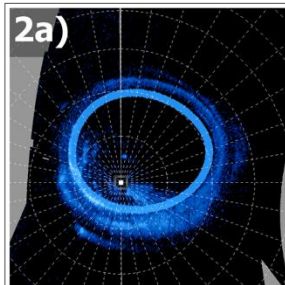


PJ28 – South

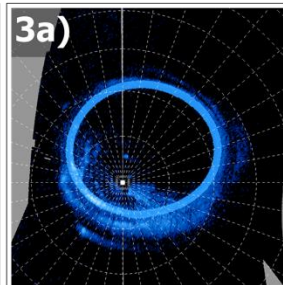
Brightness map



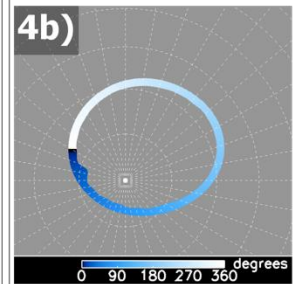
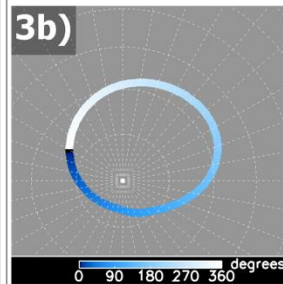
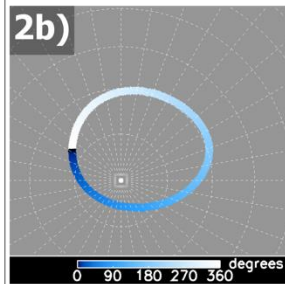
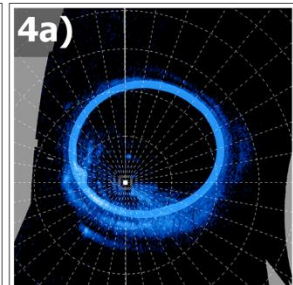
MD mask



AF1 mask

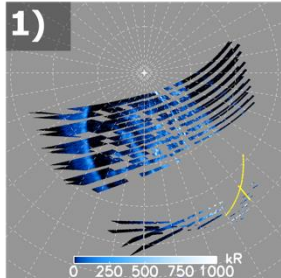


AF2 mask



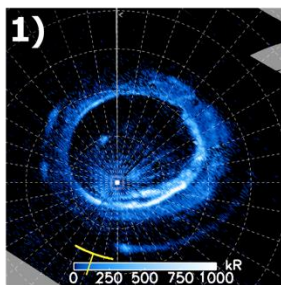
PJ29 – North

Brightness map

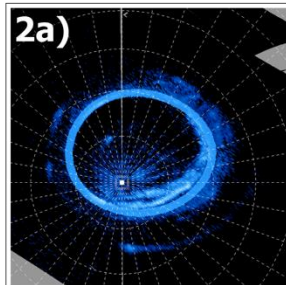


PJ29 – South

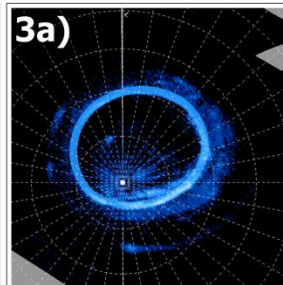
Brightness map



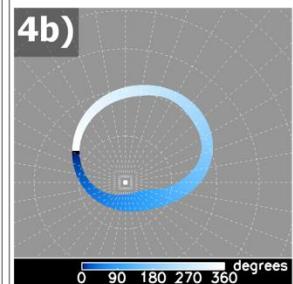
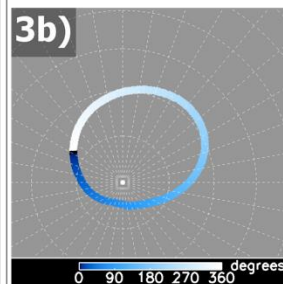
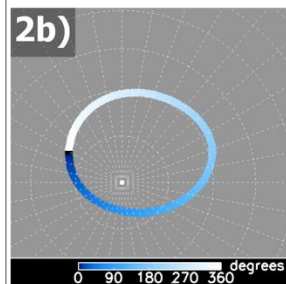
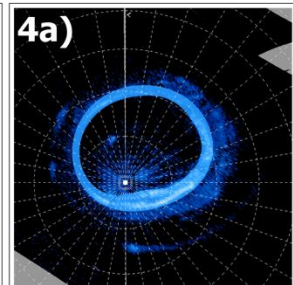
MD mask



AF1 mask

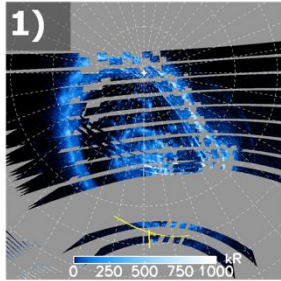


AF2 mask



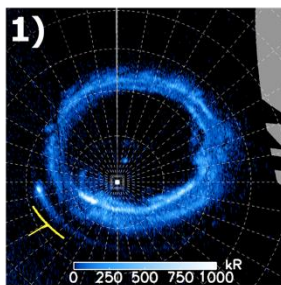
PJ30 – North

Brightness map

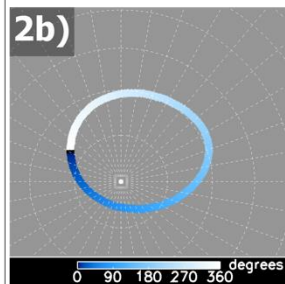
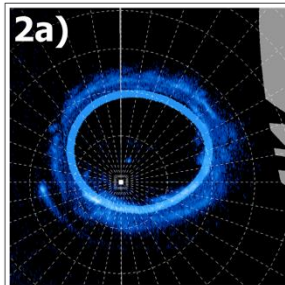


PJ30 – South

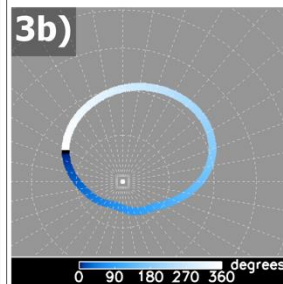
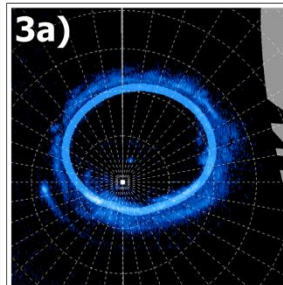
Brightness map



MD mask

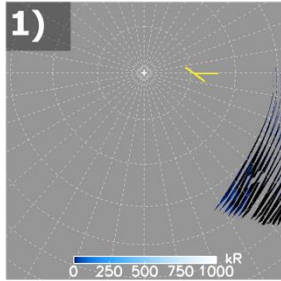


AF1 mask



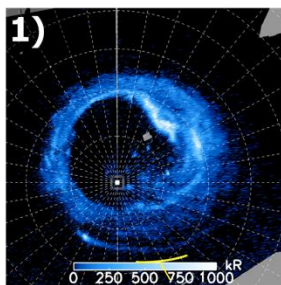
PJ31 – North

Brightness map

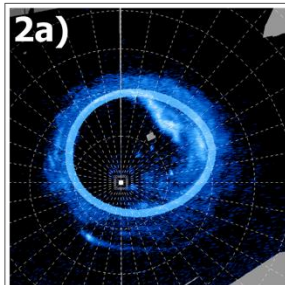


PJ31 – South

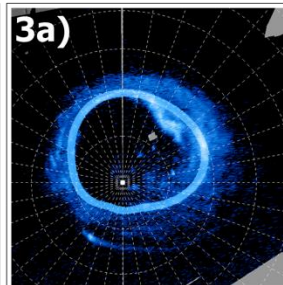
Brightness map



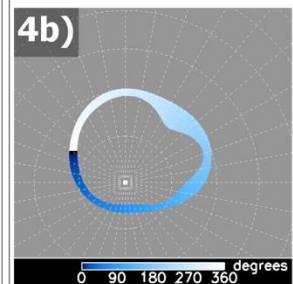
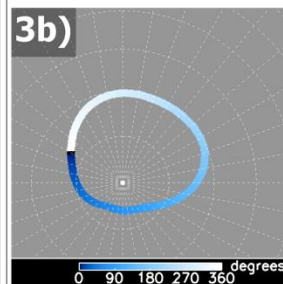
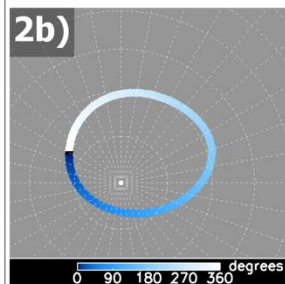
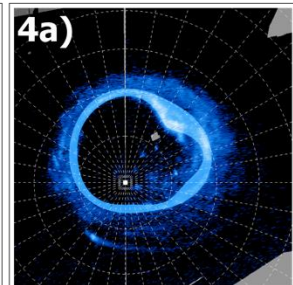
MD mask



AF1 mask

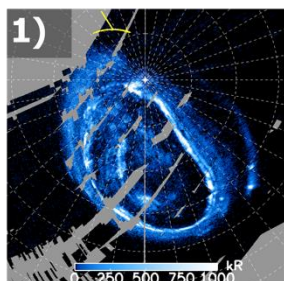


AF2 mask

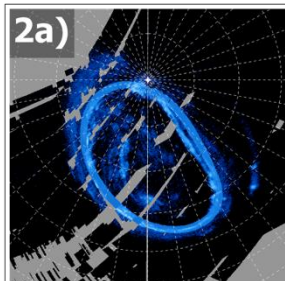


PJ32 – North

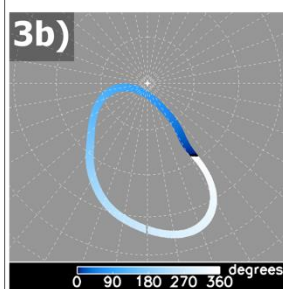
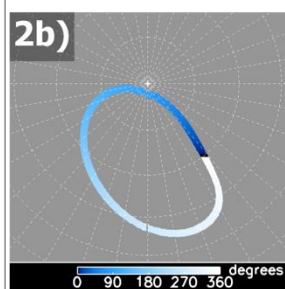
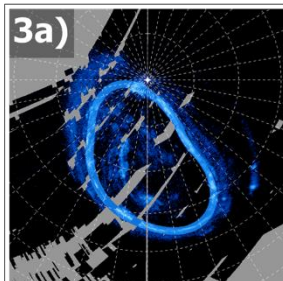
Brightness map



MD mask

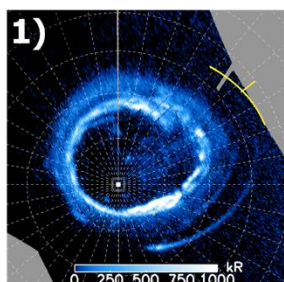


AF1 mask

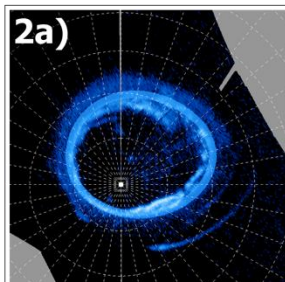


PJ32 – South

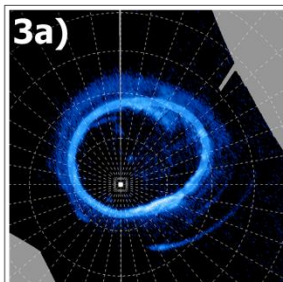
Brightness map



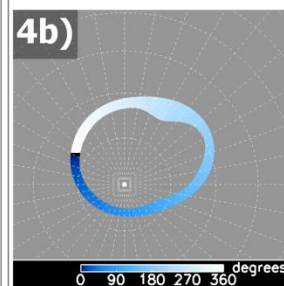
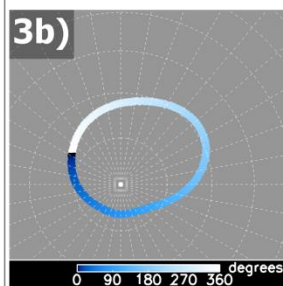
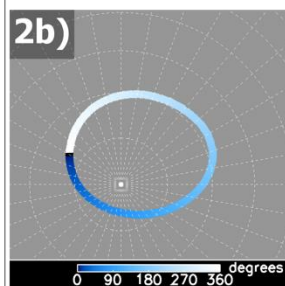
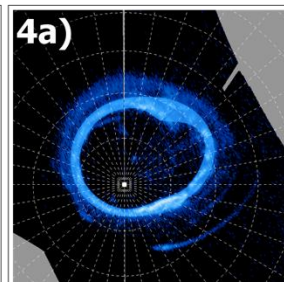
MD mask



AF1 mask

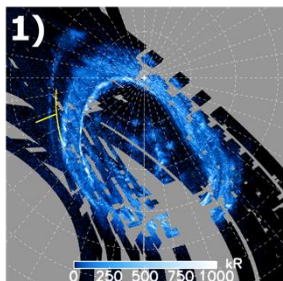


AF2 mask



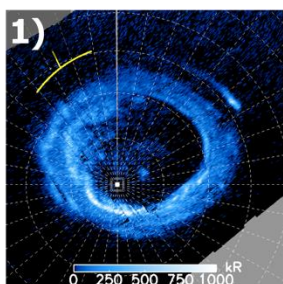
PJ33 – North

Brightness map

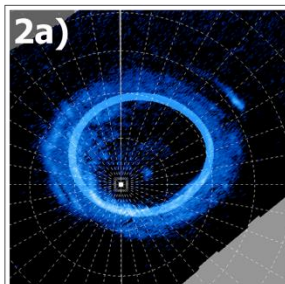


PJ33 – South

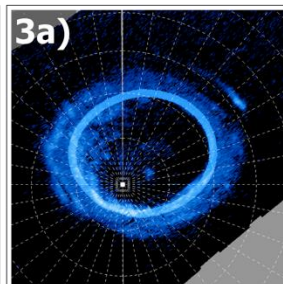
Brightness map



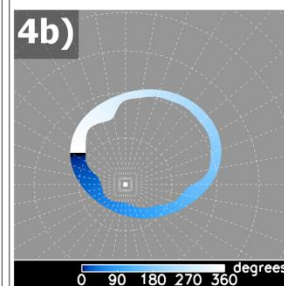
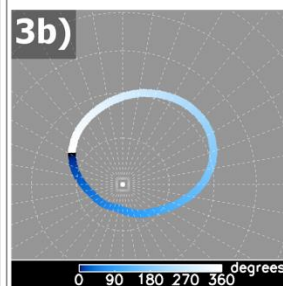
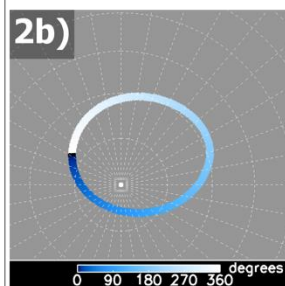
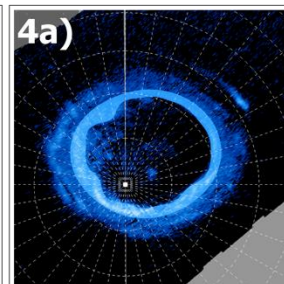
MD mask



AF1 mask

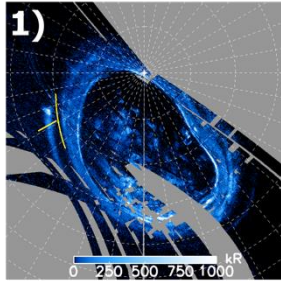


AF2 mask



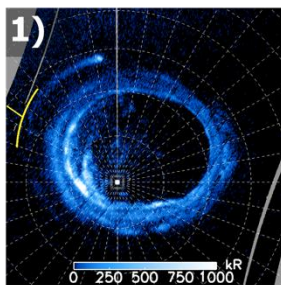
PJ34 – North

Brightness map

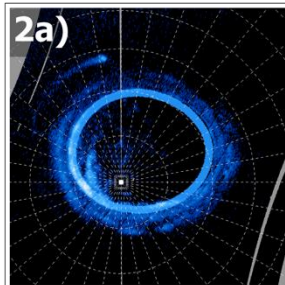


PJ34 – South

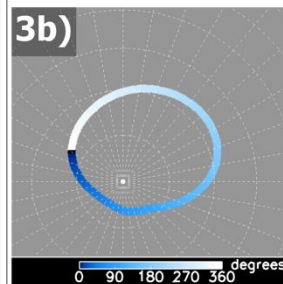
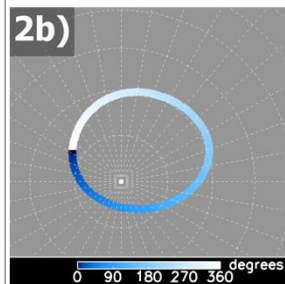
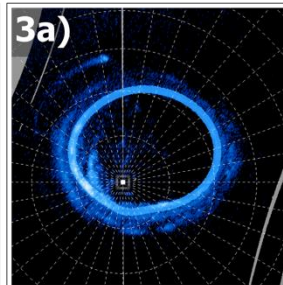
Brightness map



MD mask

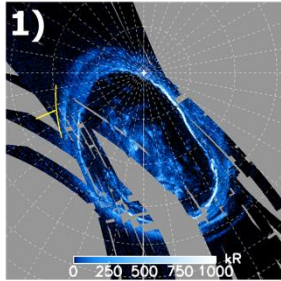


AF1 mask



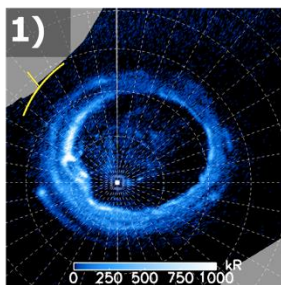
PJ35 – North

Brightness map



PJ35 – South

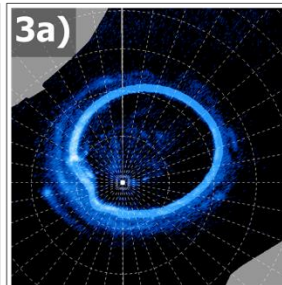
Brightness map



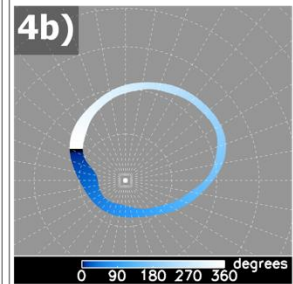
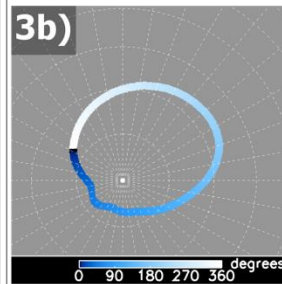
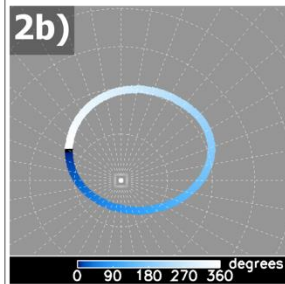
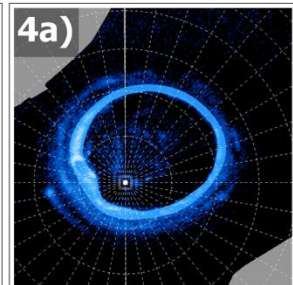
MD mask



AF1 mask

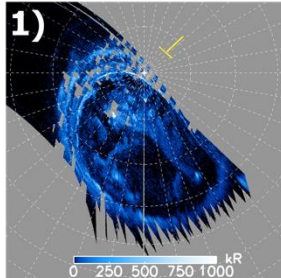


AF2 mask

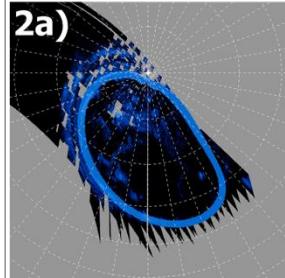


PJ36 – North

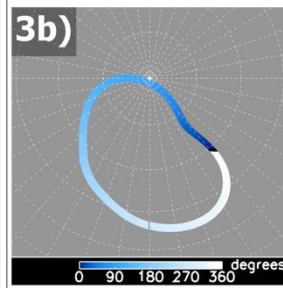
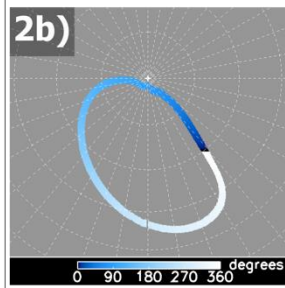
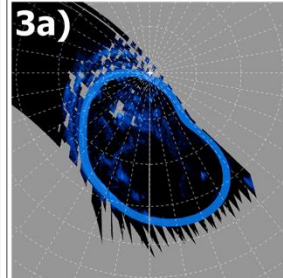
Brightness map



MD mask

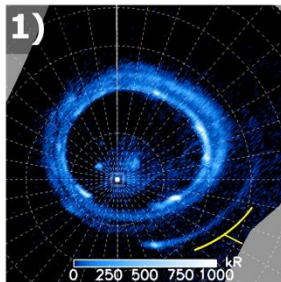


AF1 mask

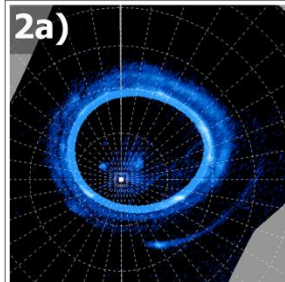


PJ36 – South

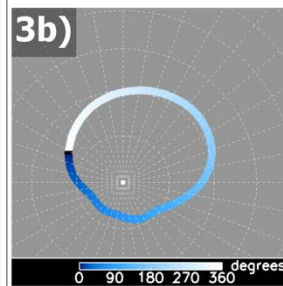
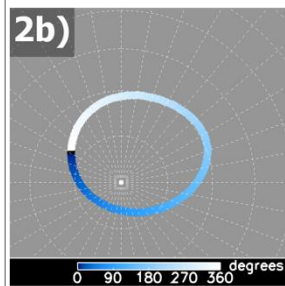
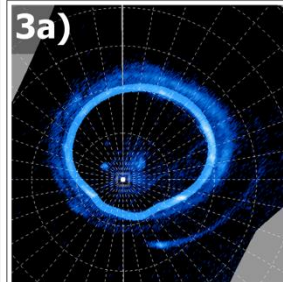
Brightness map



MD mask

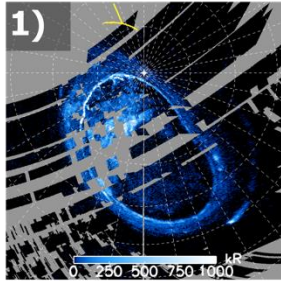


AF1 mask



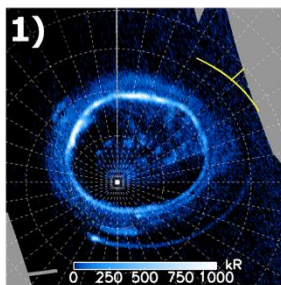
PJ37 – North

Brightness map

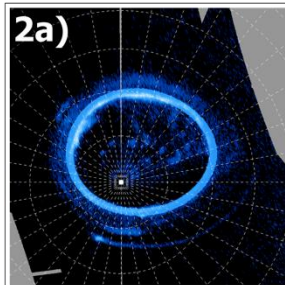


PJ37 – South

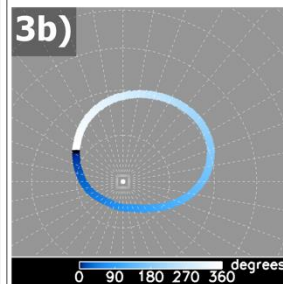
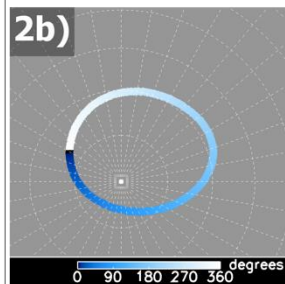
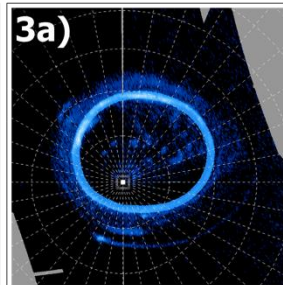
Brightness map



MD mask

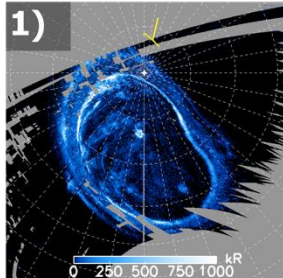


AF1 mask

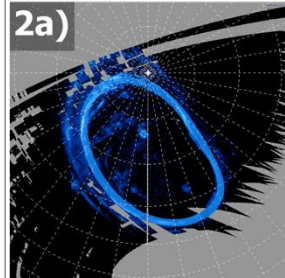


PJ38 – North

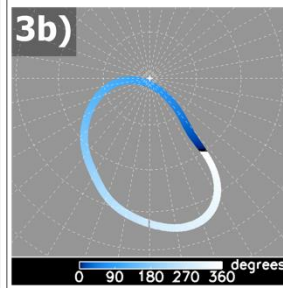
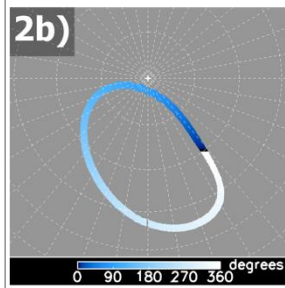
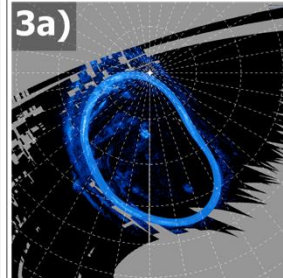
Brightness map



MD mask

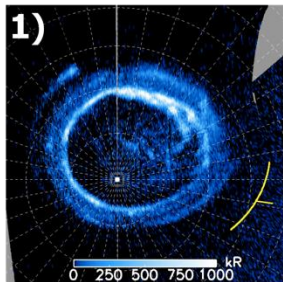


AF1 mask

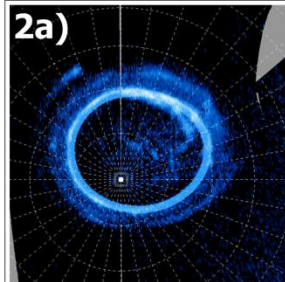


PJ38 – South

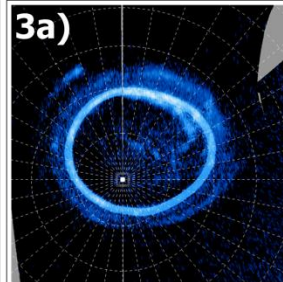
Brightness map



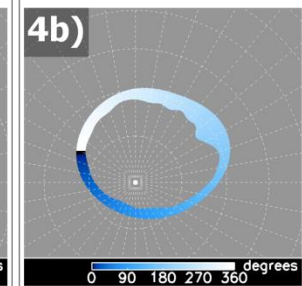
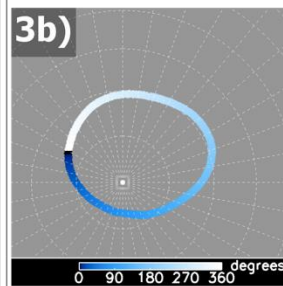
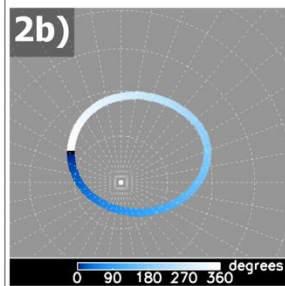
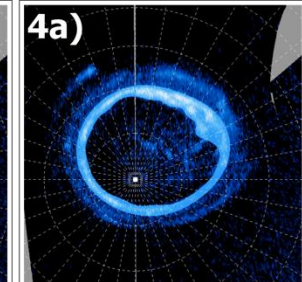
MD mask



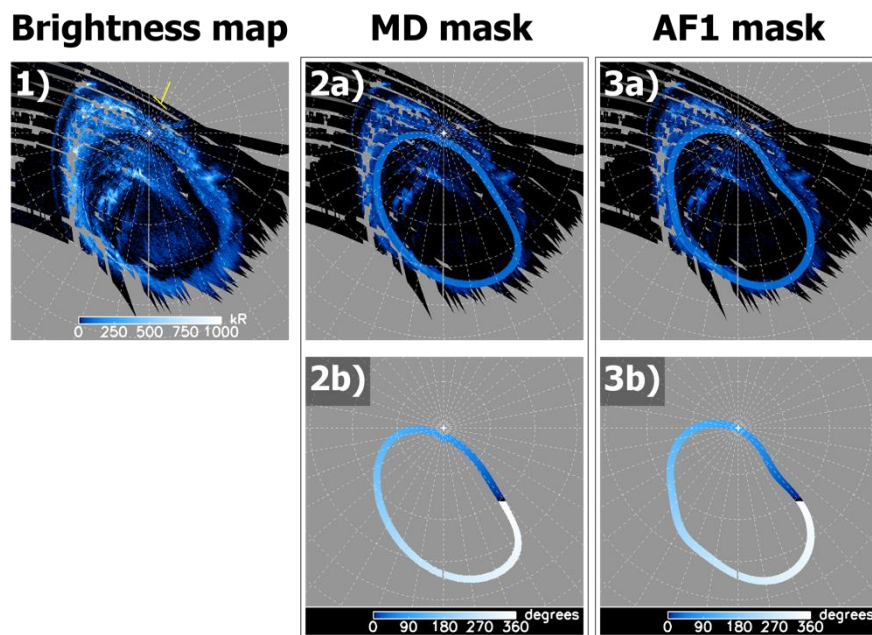
AF1 mask



AF2 mask



PJ39 – North



PJ39 – South

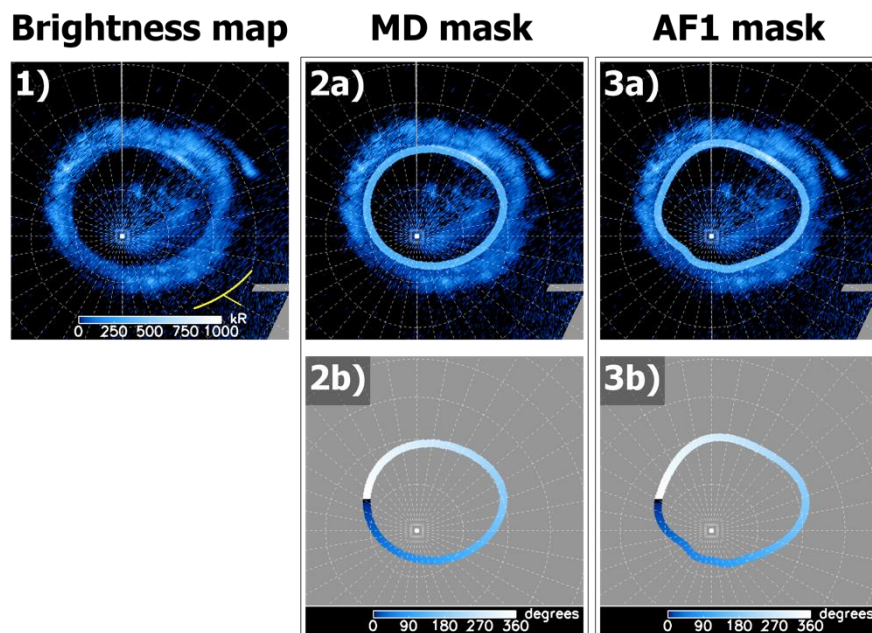


Figure S8: Brightness maps and masks for all perijoves considered in this study. They are similar to Figure 1 but for all perijoves considered in this study. For each perijove: 1) Polar projection of the pole. The sunward directions spanned over the data used to create the map are indicated by a yellow region, with the radially extended part referring to the mean sunward direction that has been used for the computations. If panels 2, 3 and 4 exist, images a) are the same polar projection as panel 1 with MD, AF1 and AF2 masks respectively added on. Images b) are polar projections of the masks alone.