

電漿值週

week5

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Email : kozak20010716@gmail.com

Student ID : 109607515

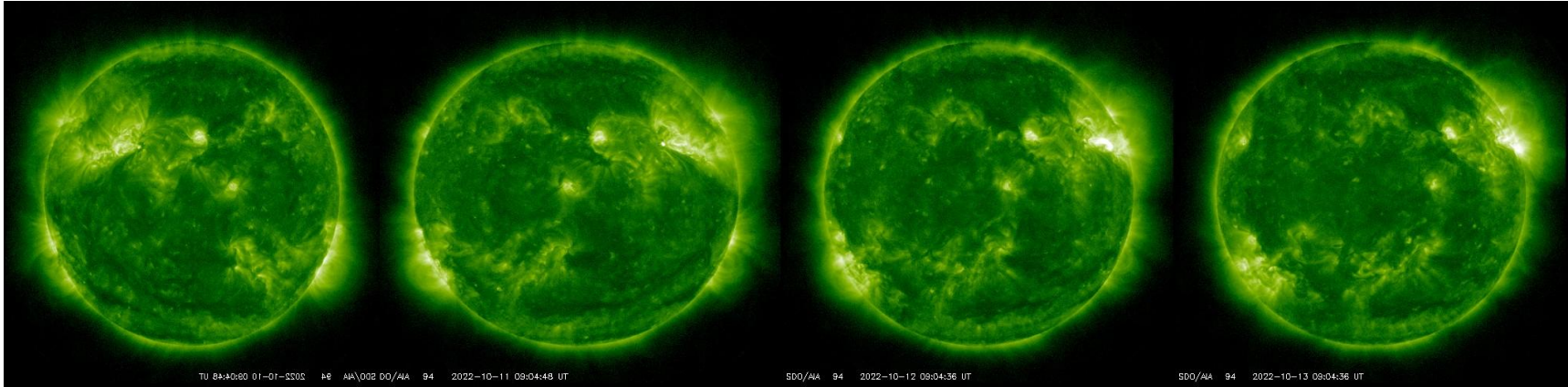
AIA 94Å (太陽閃焰)

1

2

3

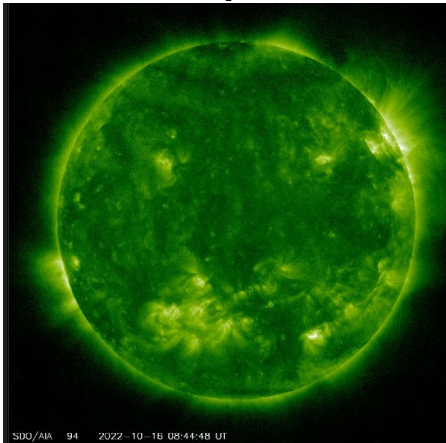
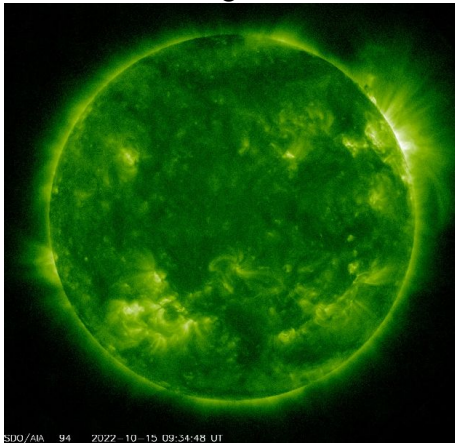
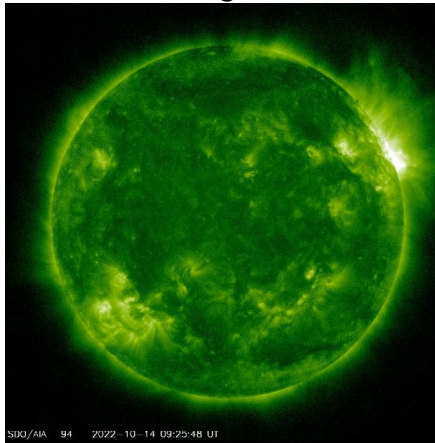
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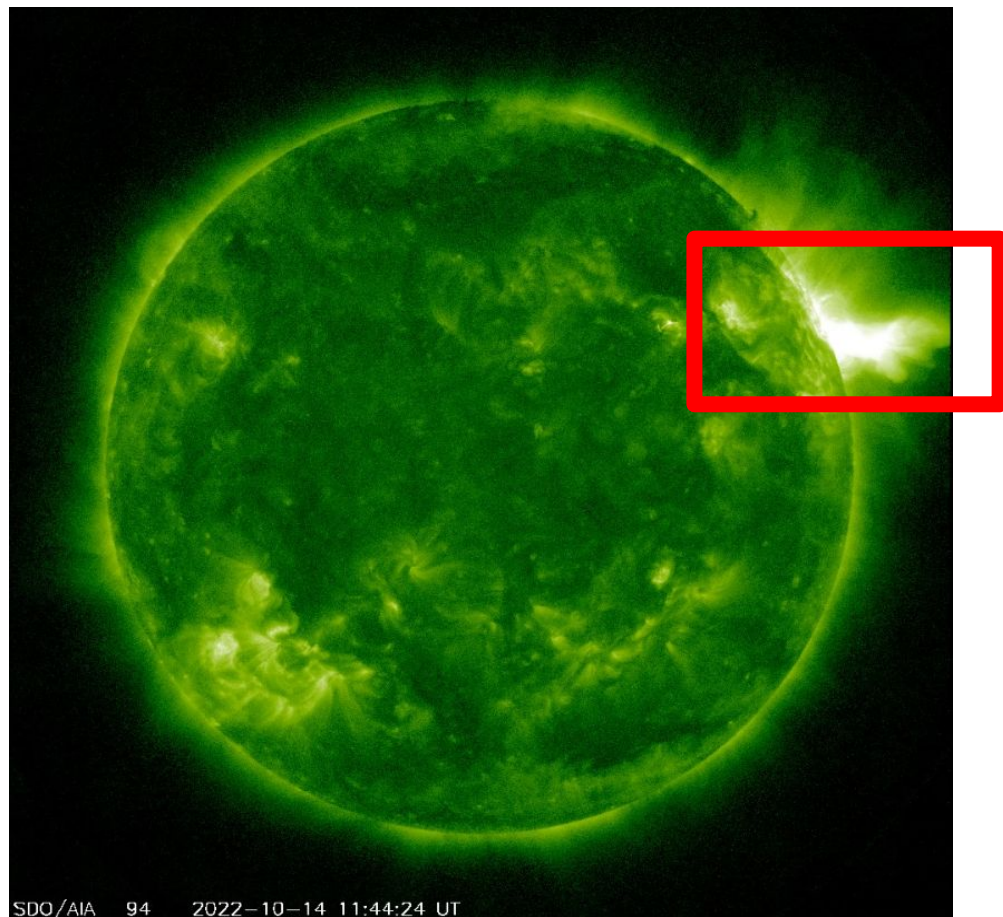


5

6

7

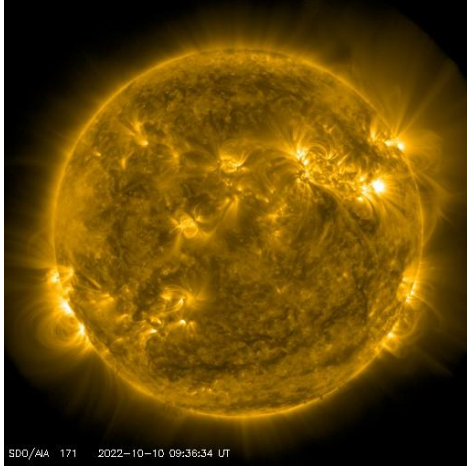




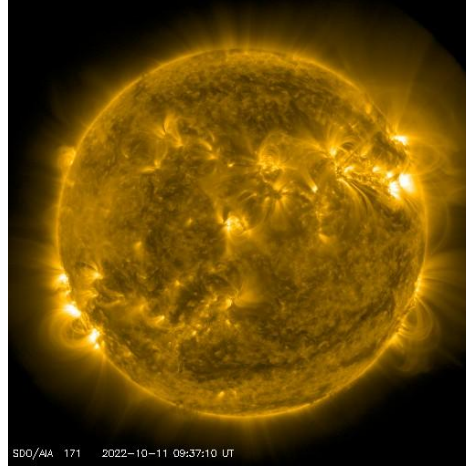
SDO/AIA 94 2022-10-14 11:44:24 UT

AIA 171Å (日冕環)

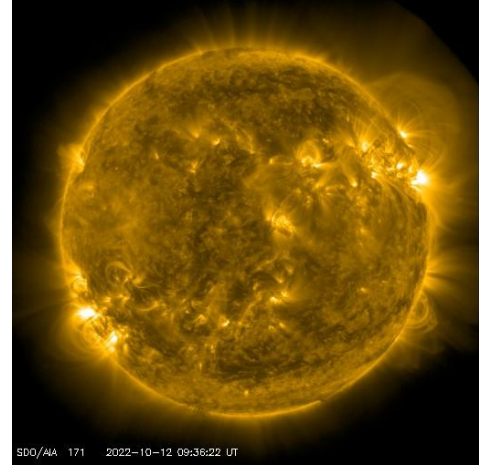
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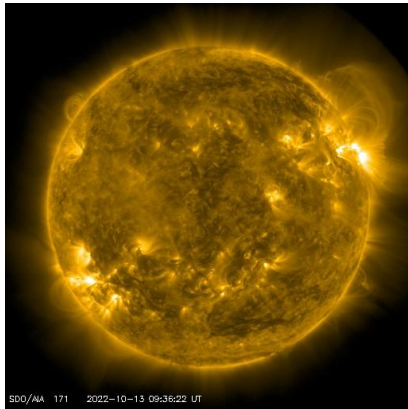
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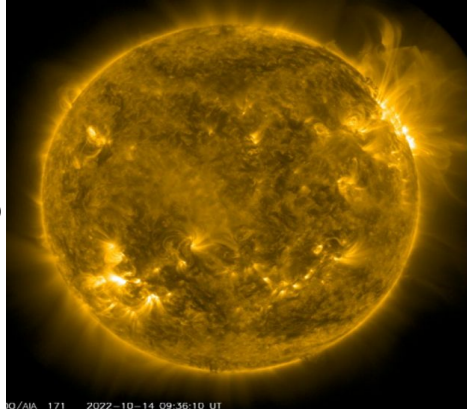
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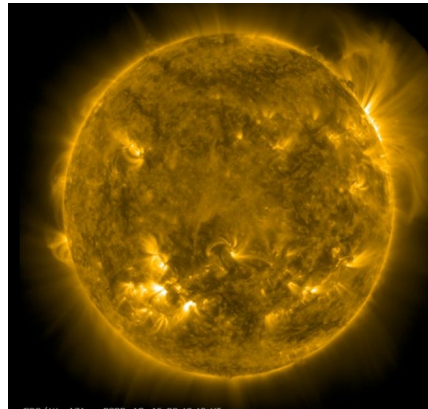
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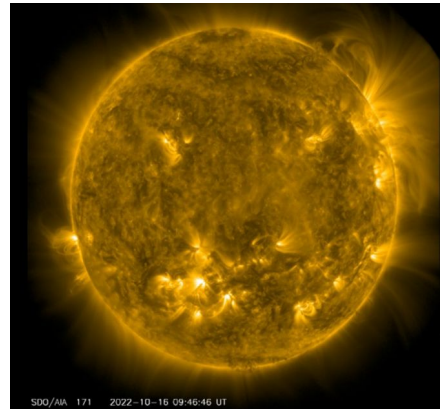
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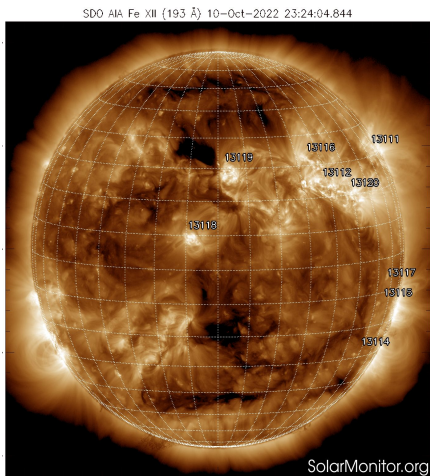


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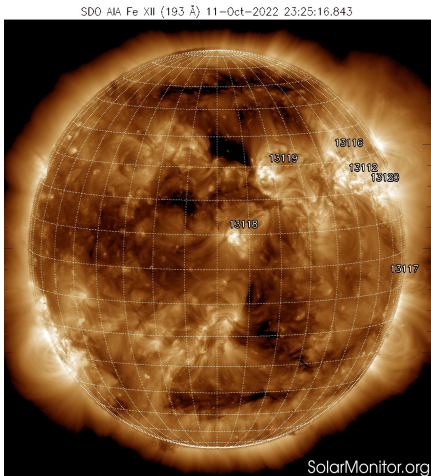


AIA 193Å (日冕)

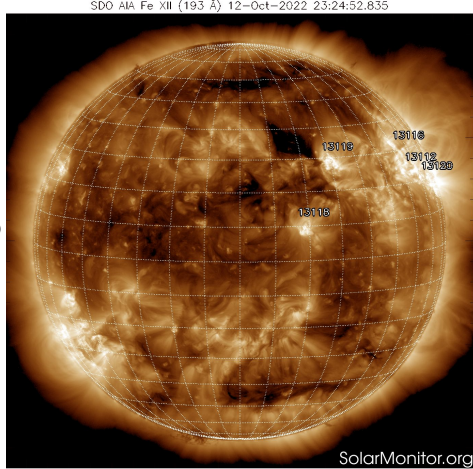
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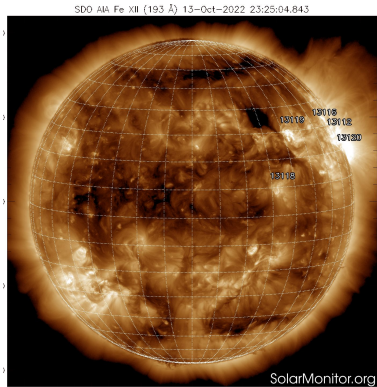
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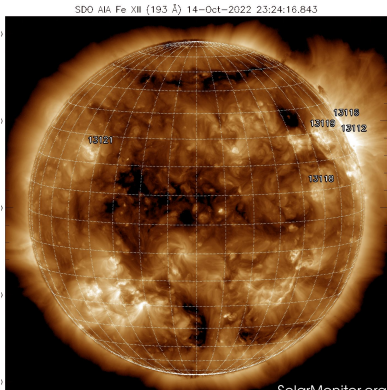
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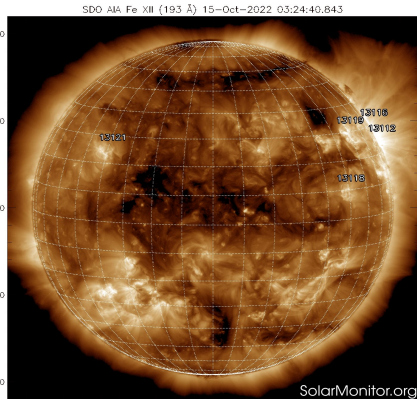
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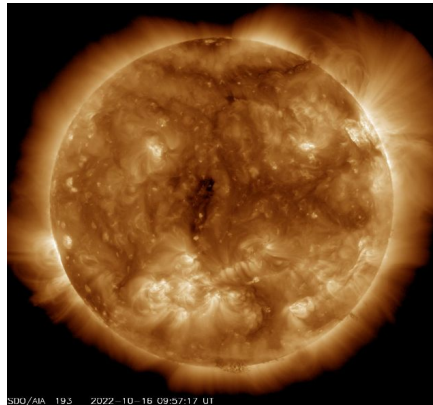
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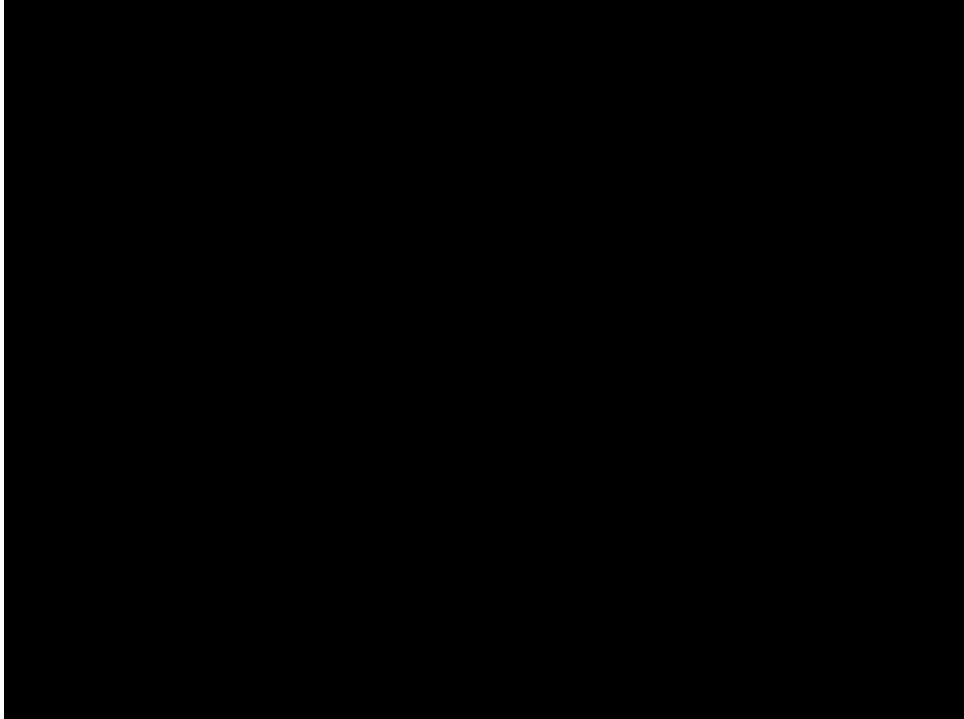
7



18 times CME in last 7 days

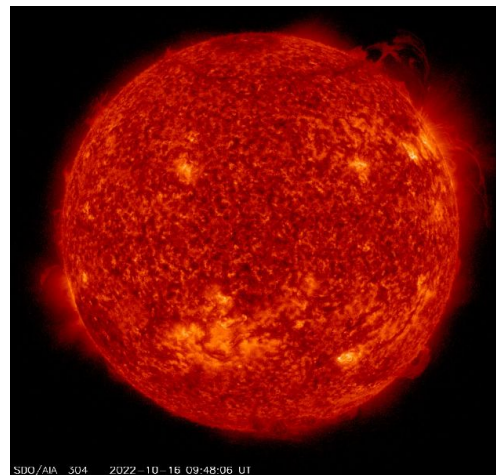
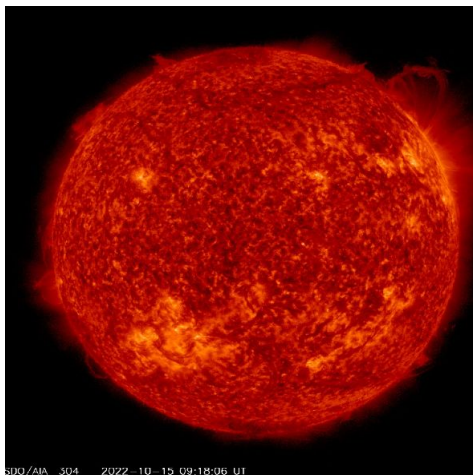
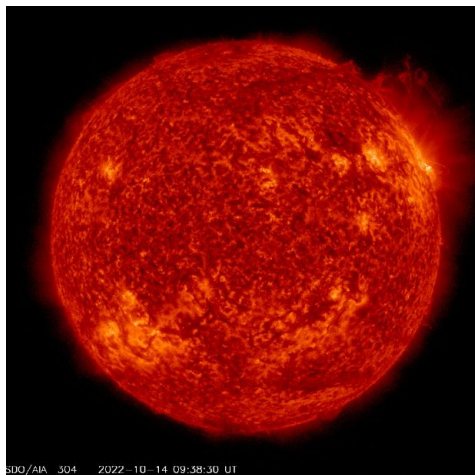
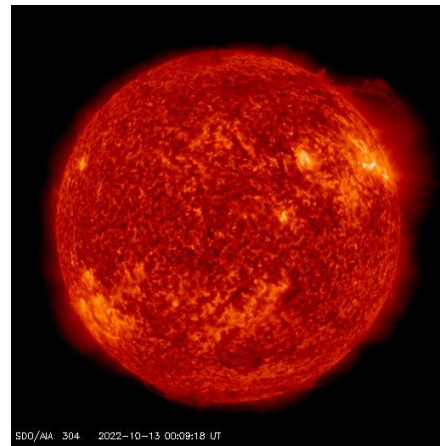
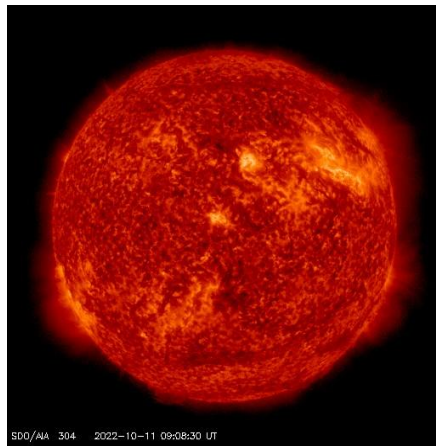
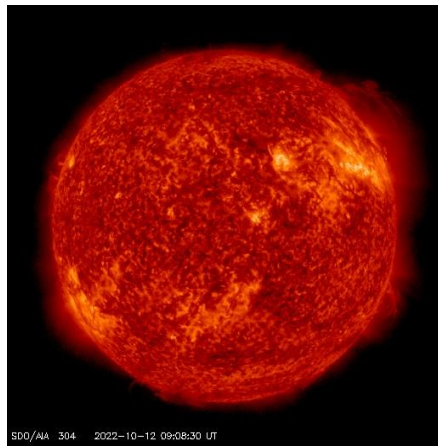
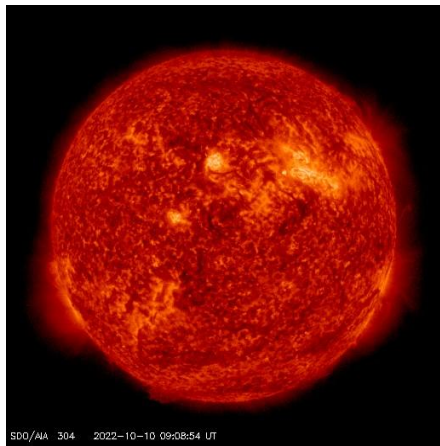
CME	Onset time	Duration	Angle	Angular width	Velocity				Halo?
					Median	Variation	Min.	Max.	
18	2022/10/15 18:00	1	246°	10°	214	17	206	247	
17	2022/10/15 06:00	1	239°	8°	264	73	123	281	
16	2022/10/15 02:00	0	202°	10°	403	118	264	618	
15	2022/10/14 23:12	1	234°	10°	267	56	173	345	
14	2022/10/14 23:12	3	194°	90°	306	60	204	434	
13	2022/10/14 12:24	1	299°	12°	140	875	111	1854	
12	2022/10/14 12:24	2	294°	30°	213	3	204	215	
11	2022/10/14 12:00	2	36°	14°	803	676	361	1953	
10	2022/10/14 11:24	1	30°	6°	582	657	516	1893	
9	2022/10/13 08:48	2	229°	16°	170	25	121	194	
8	2022/10/13 07:24	2	166°	38°	293	67	234	473	
7	2022/10/12 15:05	0	262°	26°	228	28	175	267	
6	2022/10/12 15:05	1	272°	50°	237	42	180	317	
5	2022/10/12 09:36	1	100°	26°	288	91	140	419	
4	2022/10/12 06:12	5	28°	34°	736	410	108	1562	
3	2022/10/11 18:24	1	92°	18°	239	60	197	367	
2	2022/10/11 11:24	1	273°	60°	242	20	206	292	
1	2022/10/11 09:24	2	277°	56°	245	50	190	381	

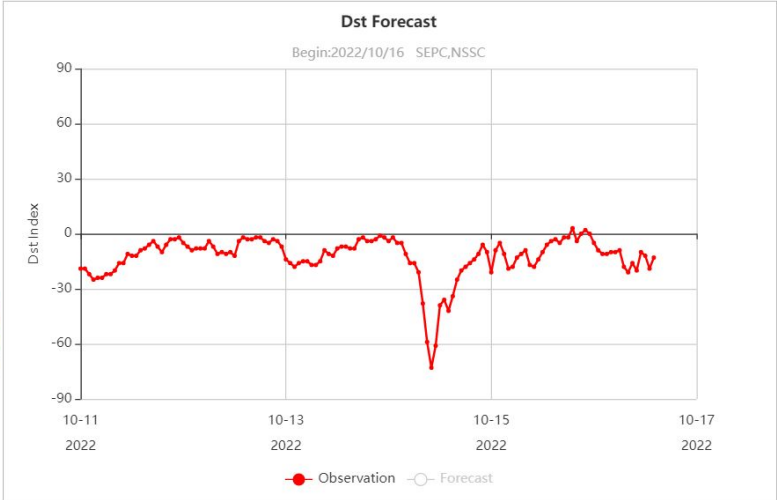
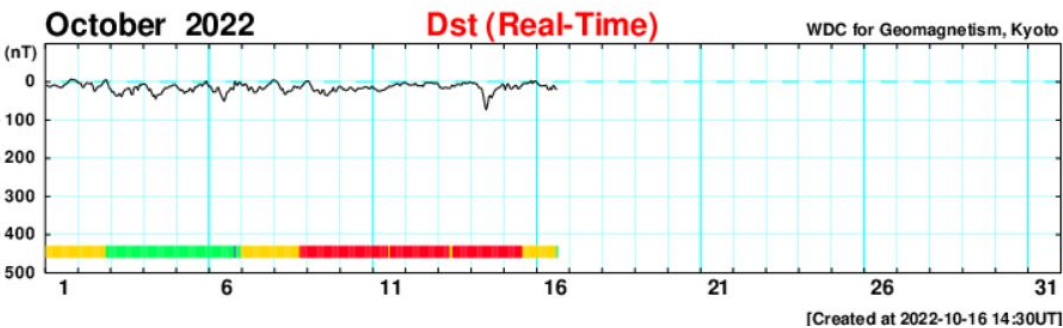
CME



10/14 23:14 Duration : 3(hours)

AIA 304Å (日珥)





DAY	unit=nT KYOTO KYOTO KYOTO KYOTO KYOTO UT																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
10	-14	-20	-19	-23	-22	-20	-15	-15	-18	-22	-25	-22	-17	-17	-18	-17	-16	-14	-13	-14	-18	-18	-12	-13
11	-19	-19	-22	-25	-24	-24	-22	-22	-20	-16	-16	-11	-12	-12	-9	-8	-6	-4	-7	-10	-6	-3	-3	-2
12	-5	-7	-9	-8	-8	-8	-4	-7	-11	-10	-11	-10	-12	-4	-2	-3	-3	-2	-2	-4	-5	-3	-4	-7
13	-14	-16	-18	-16	-15	-15	-17	-17	-15	-9	-11	-12	-8	-7	-7	-8	-8	-3	-2	-4	-4	-3	-1	-2
14	-4	-2	-5	-5	-11	-16	-16	-21	-38	-59	-73	-61	-39	-36	-42	-34	-25	-20	-18	-16	-14	-11	-6	-10
15	-21	-9	-5	-11	-19	-18	-13	-11	-9	-17	-18	-14	-10	-6	-4	-3	-5	-2	-2	3	-4	0	2	0

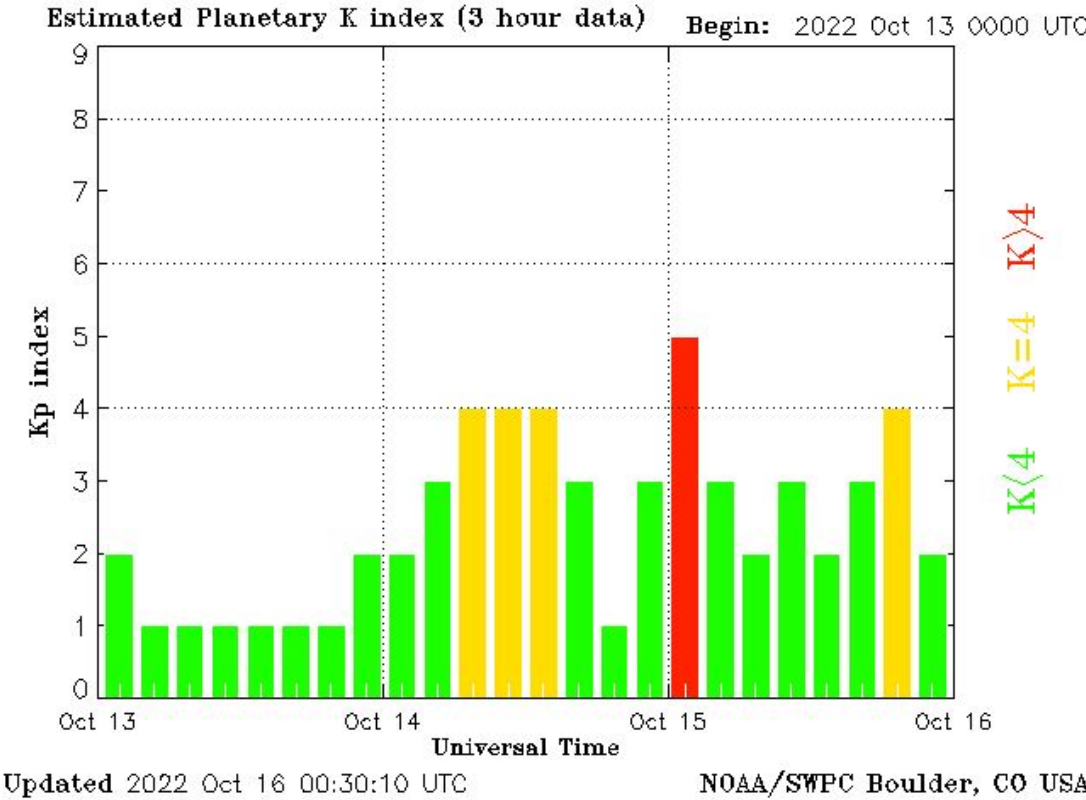
Kp index

Kp : 5

G-scale : G1

Auroral activity : Minor storm

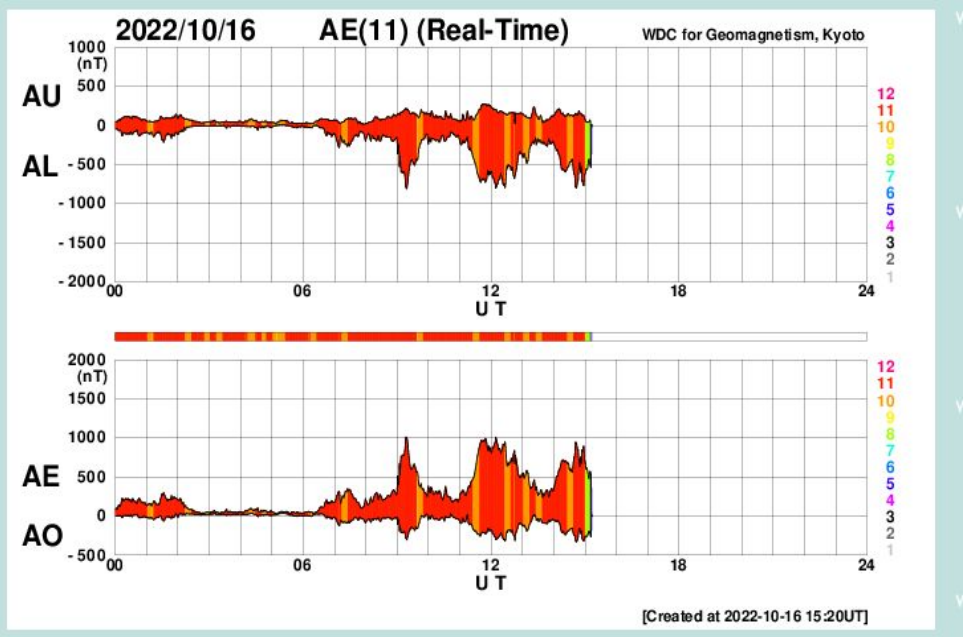
Average frequency: 900
days per cycle



Solar Flares and its outcomes

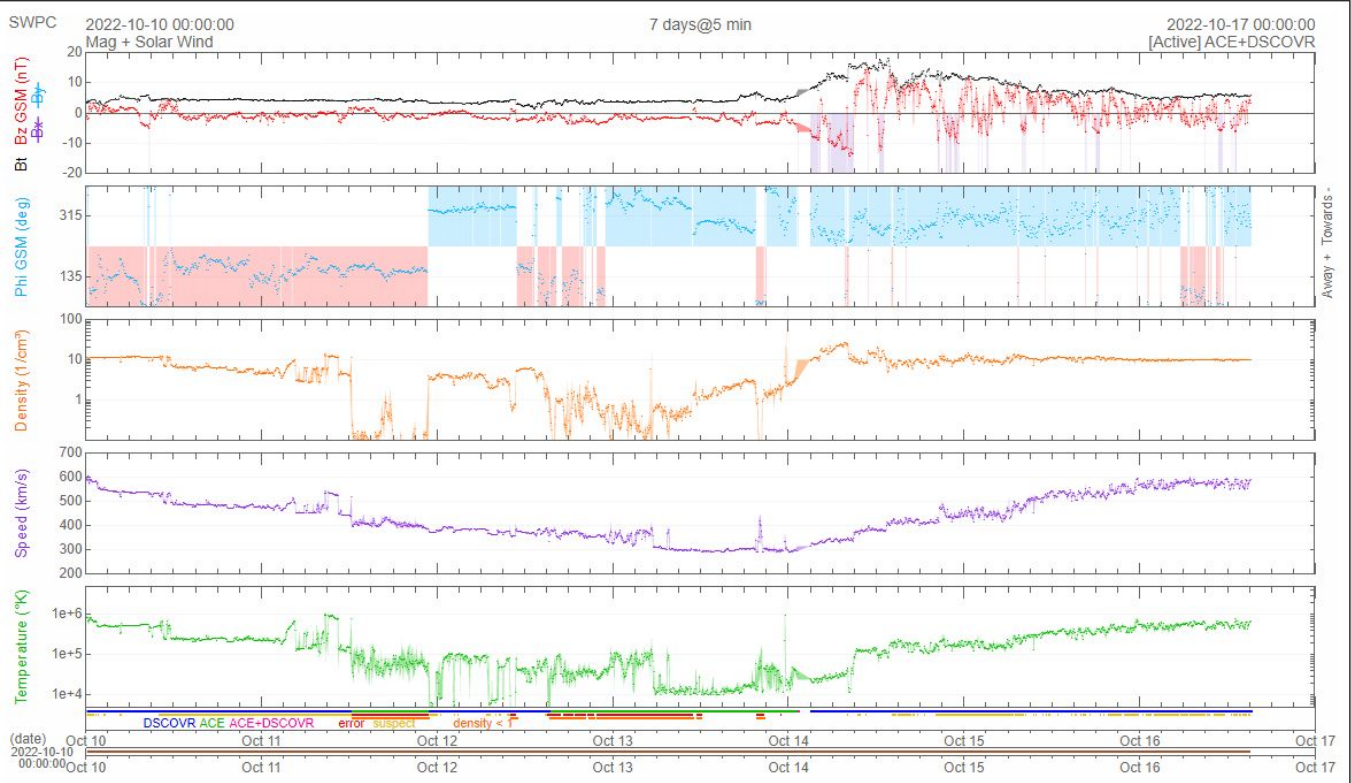


10/14 apr. 10:00, M1.33 solar flares



10/16 AU, AL, AE, AO index

Solar Wind

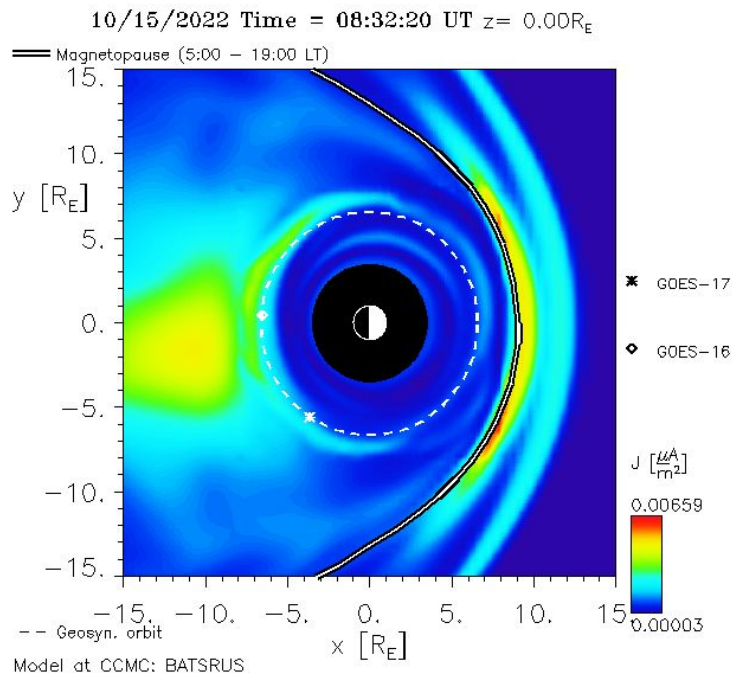


Magnetopause Location

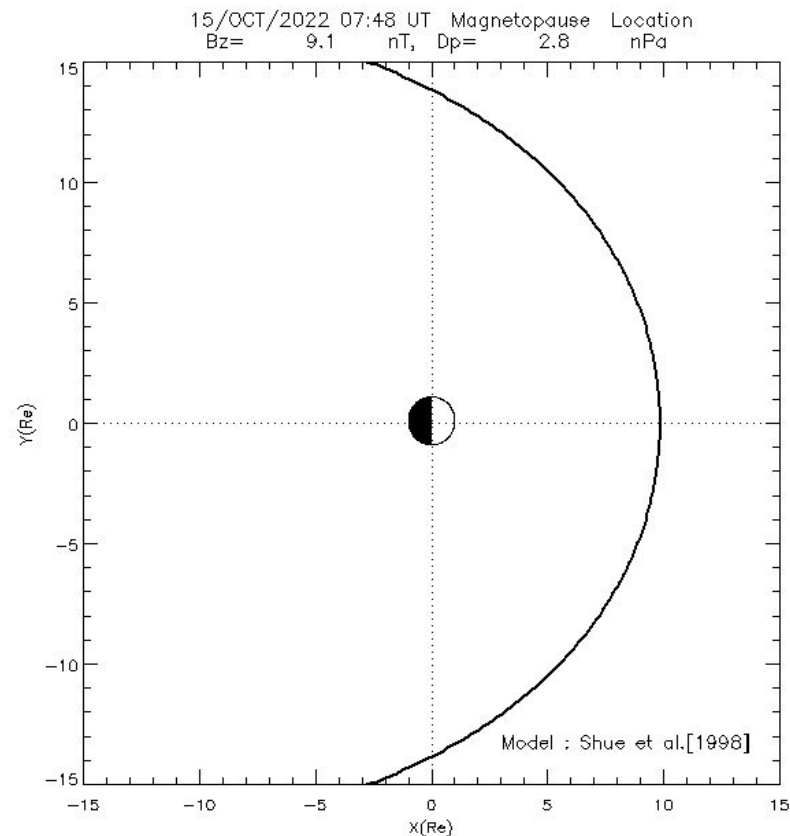
Model: SWMF/BATSRUS version 9.20 (T. Gombosi et al.)

Current magnetopause position

Coordinate System: GSM



Credit : CCMS, NASA



What's New in Space This Week?



Technology



4 minute read · October 15, 2022 2:22 AM GMT+8 · Last Updated 13 hours ago



Musk says SpaceX cannot fund Ukraine's vital Starlink internet indefinitely

Reuters



TOM CRUISE SPACE PROJECT

Tom Cruise's Space Movie Will Include Him Doing an Actual Spacewalk

The actor and film crew will take a rocket to the International Space Station.



By [Kenneth Shepard](#)



Updated: Oct 12, 2022 5:01 am



Posted: Oct 12, 2022 5:01 am

Mission Impossible and Top Gun: Maverick star [Tom Cruise](#) is set to star in a movie shot in space thanks to a partnership with NASA, and Universal wants to make him the “the first civilian to do a spacewalk outside of the space station.”

In an interview with [BBC](#), Universal Filmed Entertainment Group Chairwoman Donna Langley spoke about the project, which will have Cruise and the rest of the film crew take a rocket to the International Space Station to shoot parts of the movie in space.

硬核又浪漫，还懂王羲之，她真是“宇宙级网红”！

2022年10月15日 12:07 新浪新闻综合

△ | A | A⁺ | ↺

来源：环球人物



她最想告诉大家的是：

女孩也可以成为任何人！

“仰观宇宙之大，俯察品类之盛，所以游目骋怀，足以极视听之娱，信可乐也。”



Samantha Cristoforetti ✓

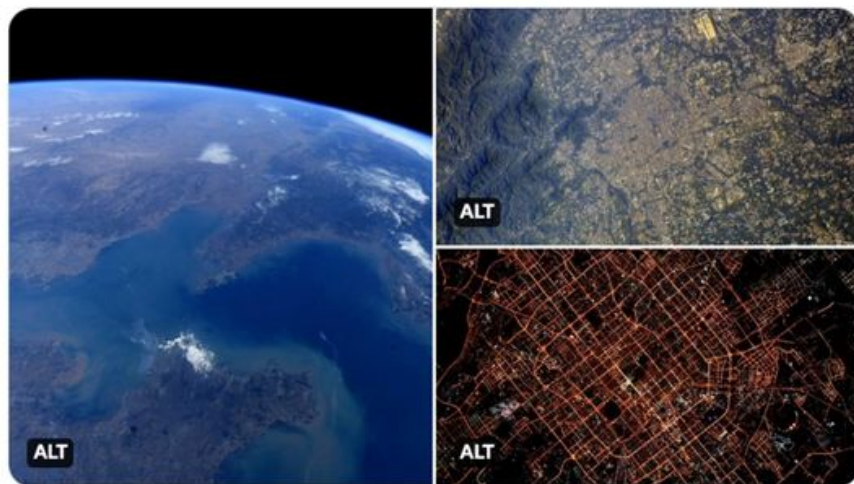
@AstroSamantha

...

仰观宇宙之大，俯察品类之盛，所以游目骋怀，足以极视听之娱，信可乐也。

Looking up, I see the immensity of the cosmos; bowing my head, I look at the multitude of the world.

The gaze flies, the heart expands, the joy of the senses can reach its peak, & indeed, this is true happiness



没错，就是中国著名书法家王羲之所著《兰亭集序》中的名句。

References

- [1] J.-H. Shue, J.K. Chao, H.C. Fu, C.T. Russell, P. Song, K.K. Khurana, and H.J. Singe, (1997), A new functional form to study the solar wind control of the magnetopause size and shape
- [2] Tom Cruise's Space Movie Will Include Him Doing an Actual Spacewalk, URL: <https://www.ign.com/articles/tom-cruises-space-movie-will-include-him-doing-an-actual-spacewalk>
- [3] Musk says SpaceX cannot fund Ukraine's vital Starlink internet indefinitely, URL: <https://www.reuters.com/technology/musk-says-spacex-cannot-fund-ukraines-starlink-internet-indefinitely-2022-10-14/>
- [4] 硬核又浪漫，还懂王羲之，她真是“宇宙级网红”！， URL : <https://news.sina.com.cn/w/2022-10-15/doc-imqmmthc0977184.shtml#/>
- [5] CCMC Real-Time Tools: Solar, Heliosphere, Magnetosphere and Ionosphere ... Magnetopause position and conditions at GOES satellites., URL : https://ccmc.gsfc.nasa.gov/cgi-bin/display/RT_t.cgi
- [6] WDC for Geomagnetism, Kyoto, URL : https://wdc.kugi.kyoto-u.ac.jp/ae_realtime/202210/index_20221016.html
- [7] SpaceWeatherLive, URL : <https://www.spaceweatherlive.com/en/solar-activity.html>
- [8] 王羲之, wiki, URL : <https://zh.wikipedia.org/wiki/王羲之>