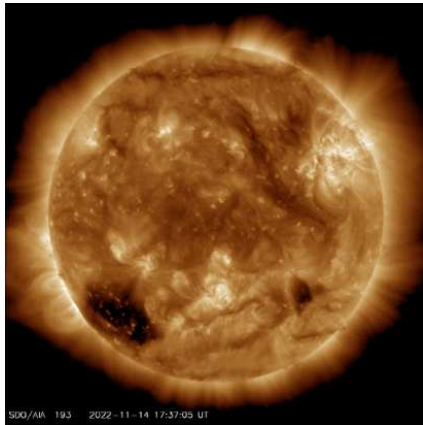


電漿值週

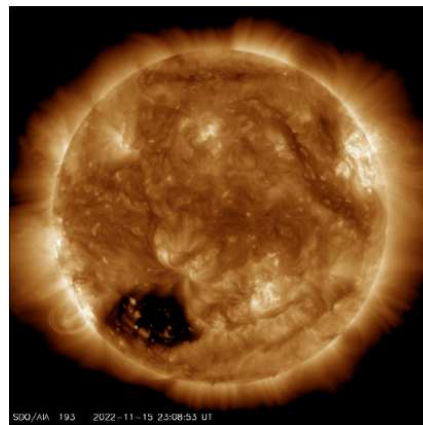
2022/11/14 ~ 2022/11/20

龍潔 溫珮妤

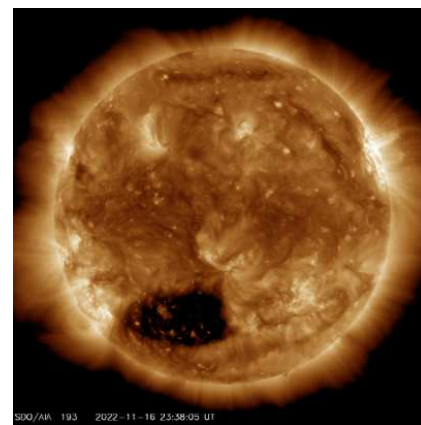
Coronal hole



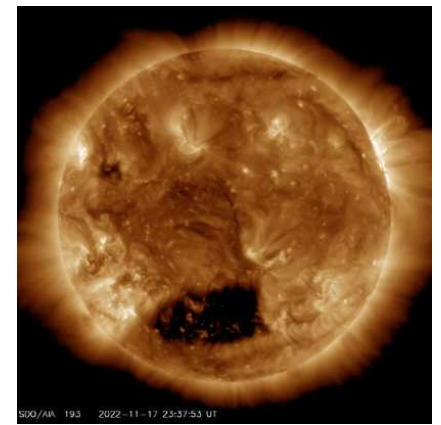
11/14



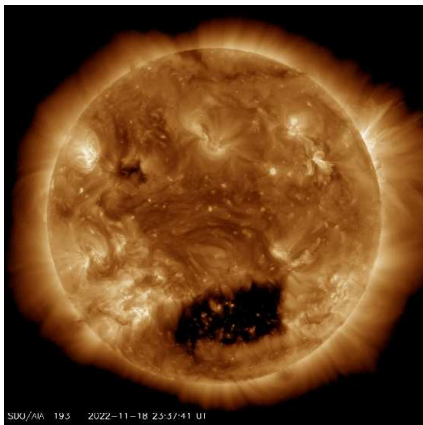
11/15



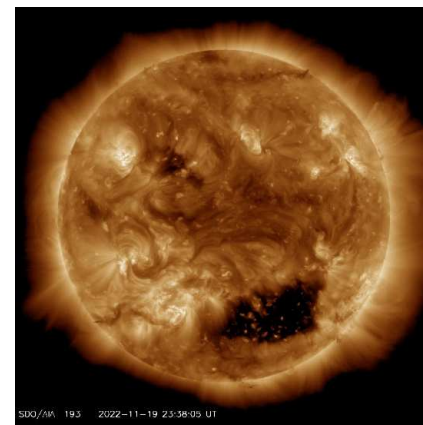
11/16



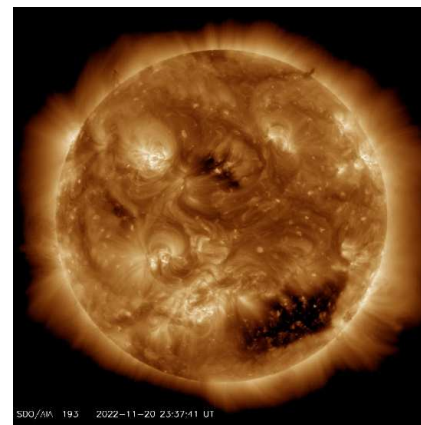
11/17



11/18



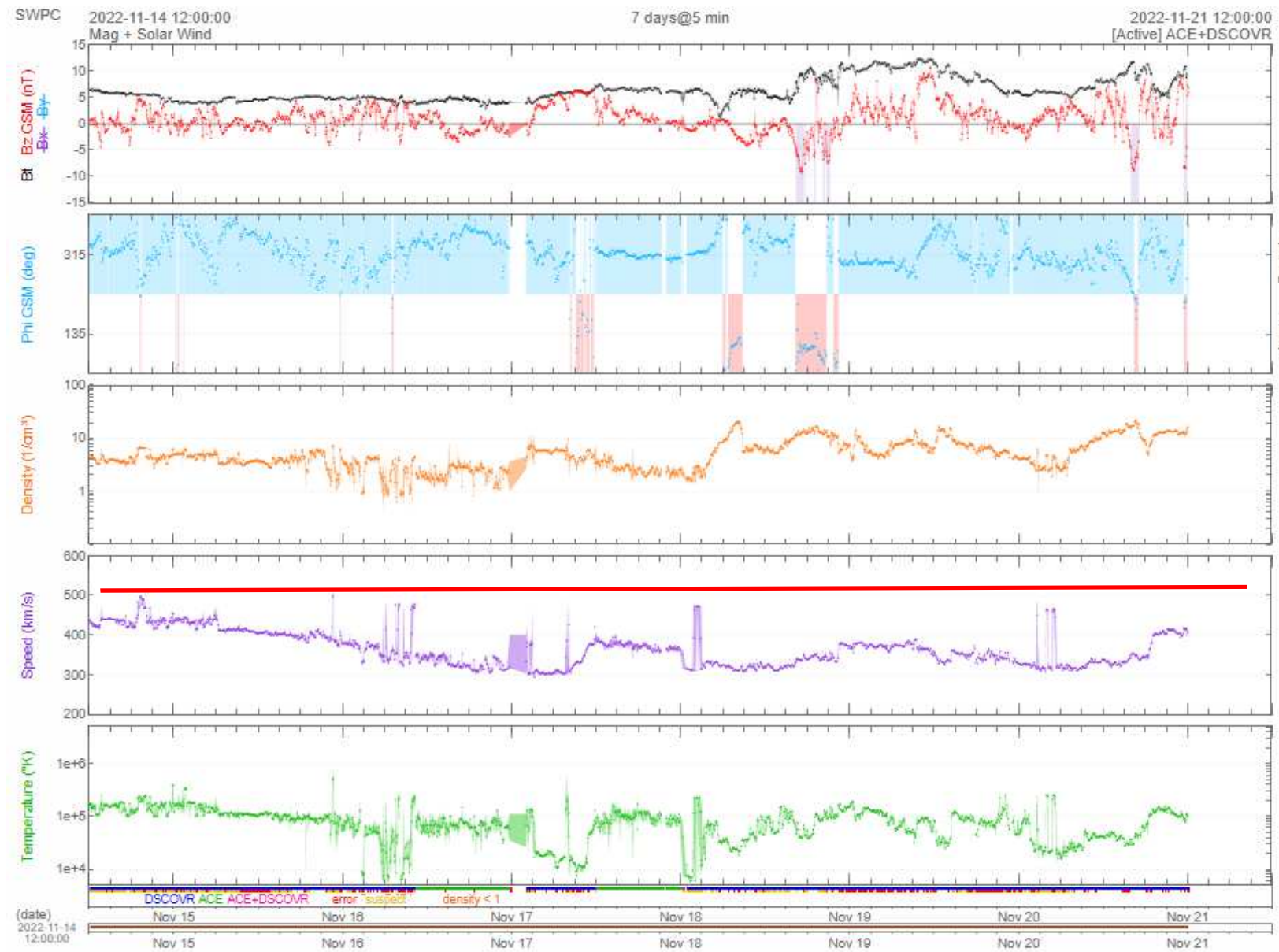
11/19



11/20

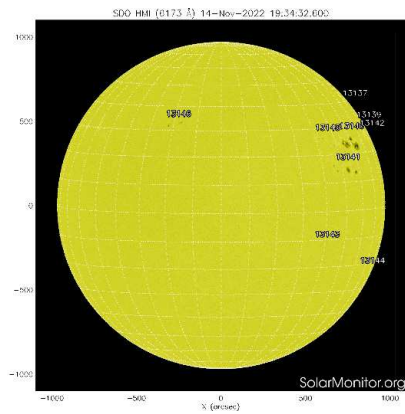
<https://www.spaceweatherlive.com/en/archive/2022/11/17/coronal-holes.html>

Solar wind

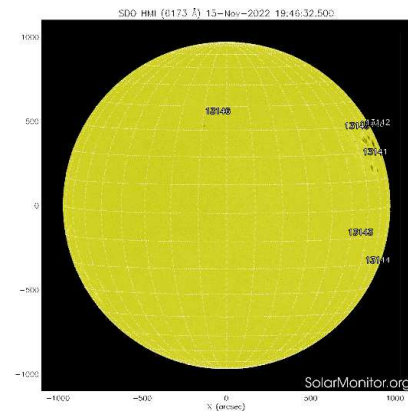


<https://www.swpc.noaa.gov/products/real-time-solar-wind>

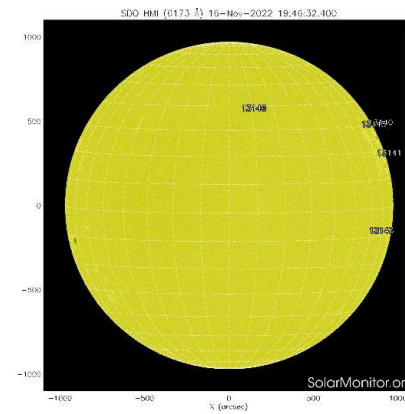
Sun spots



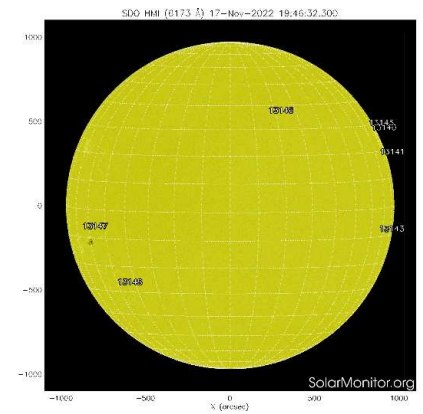
11/14



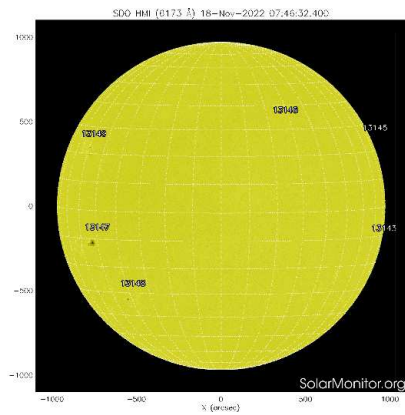
11/15



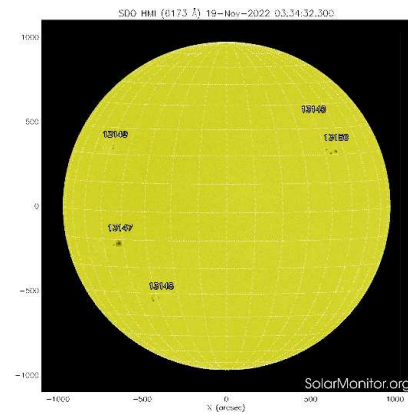
11/16



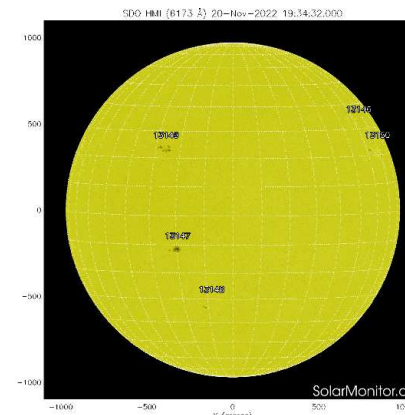
11/17



11/18



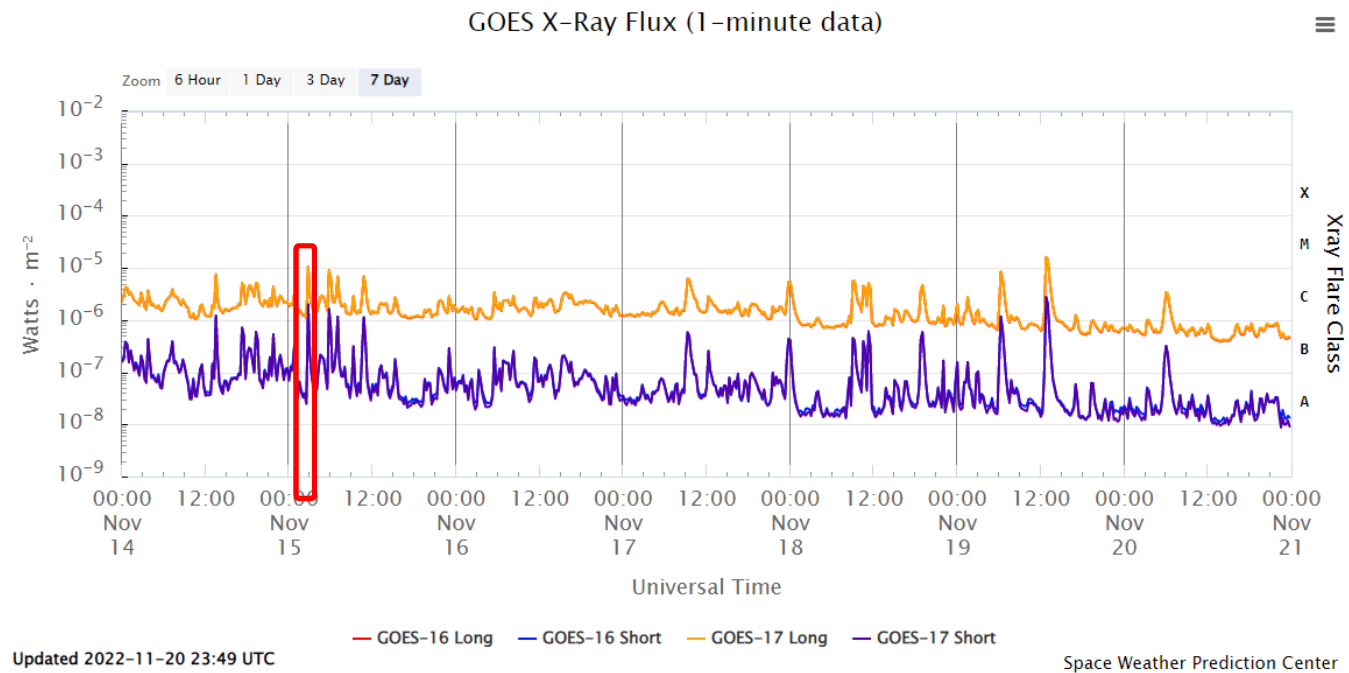
11/19



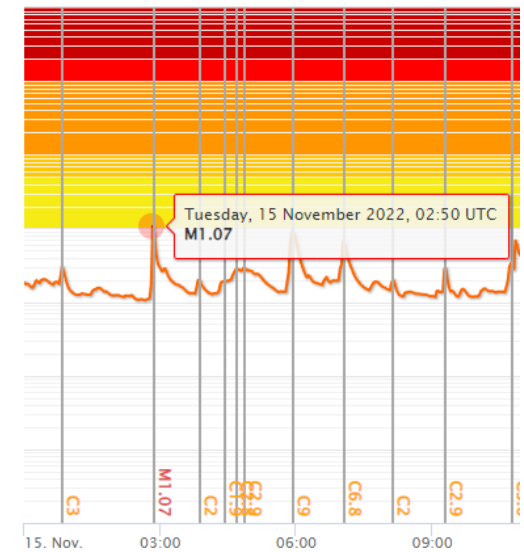
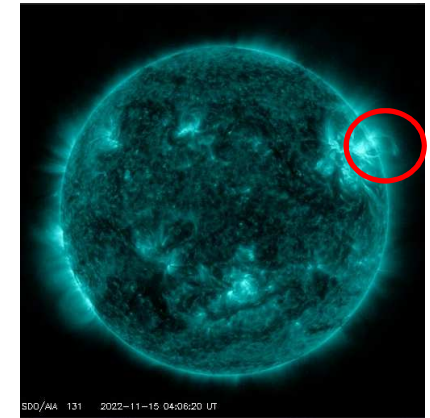
11/20

<https://www.solarmonitor.org/>

Sun flare

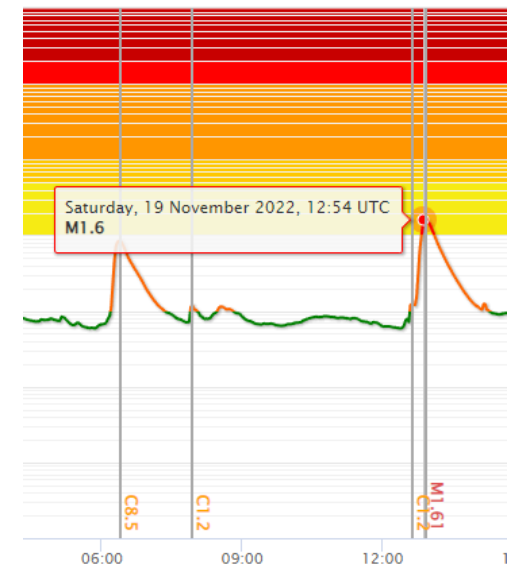
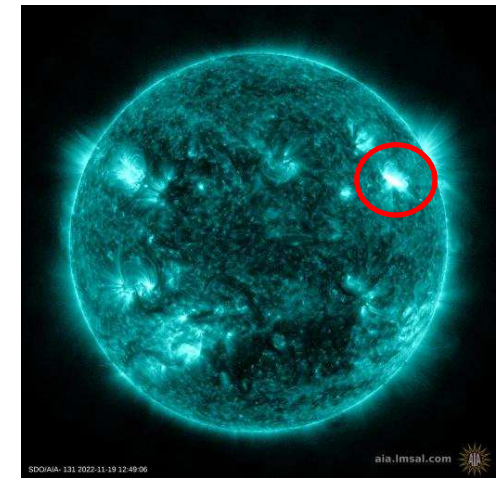
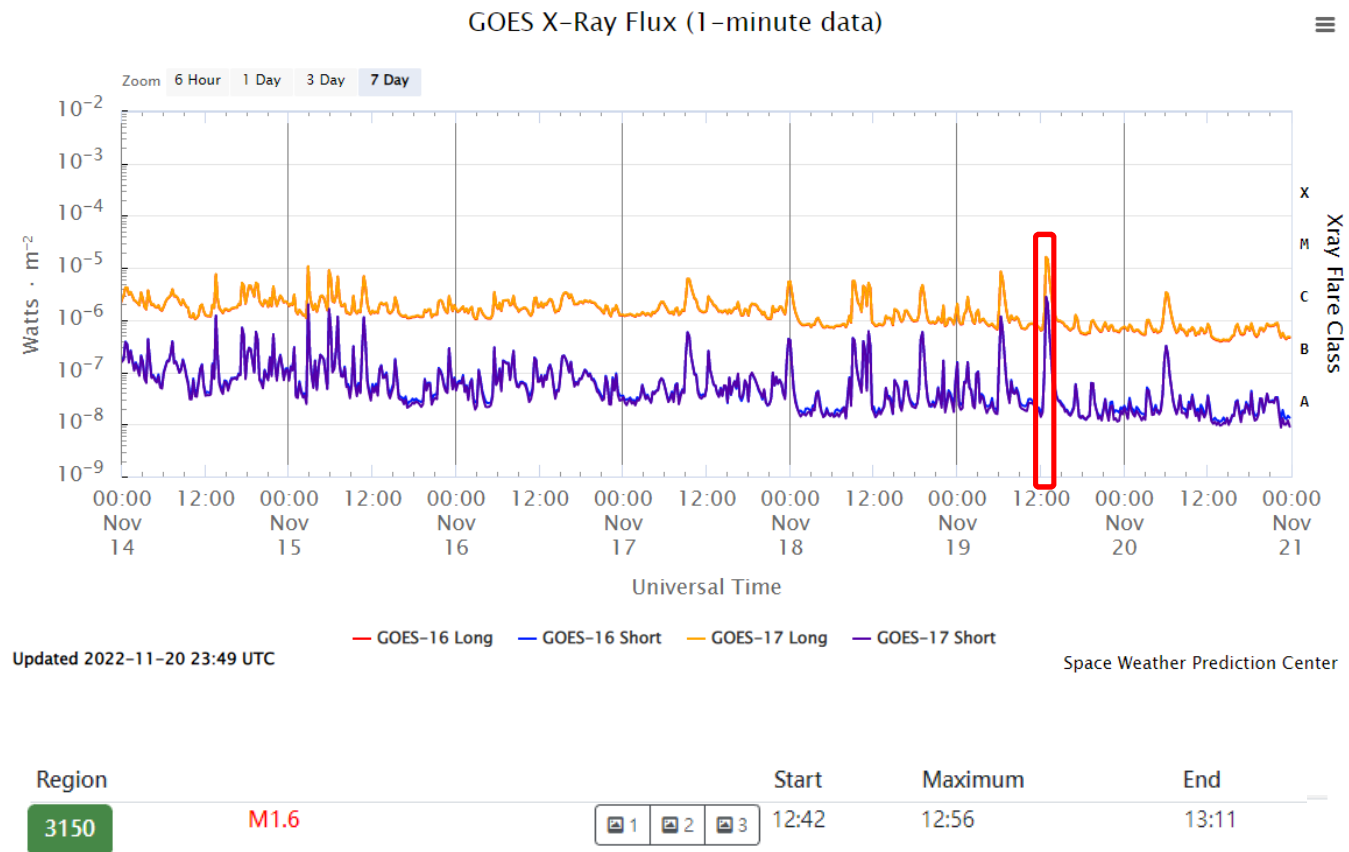


Region	Start	Maximum	End
3140	M1	02:42	02:55



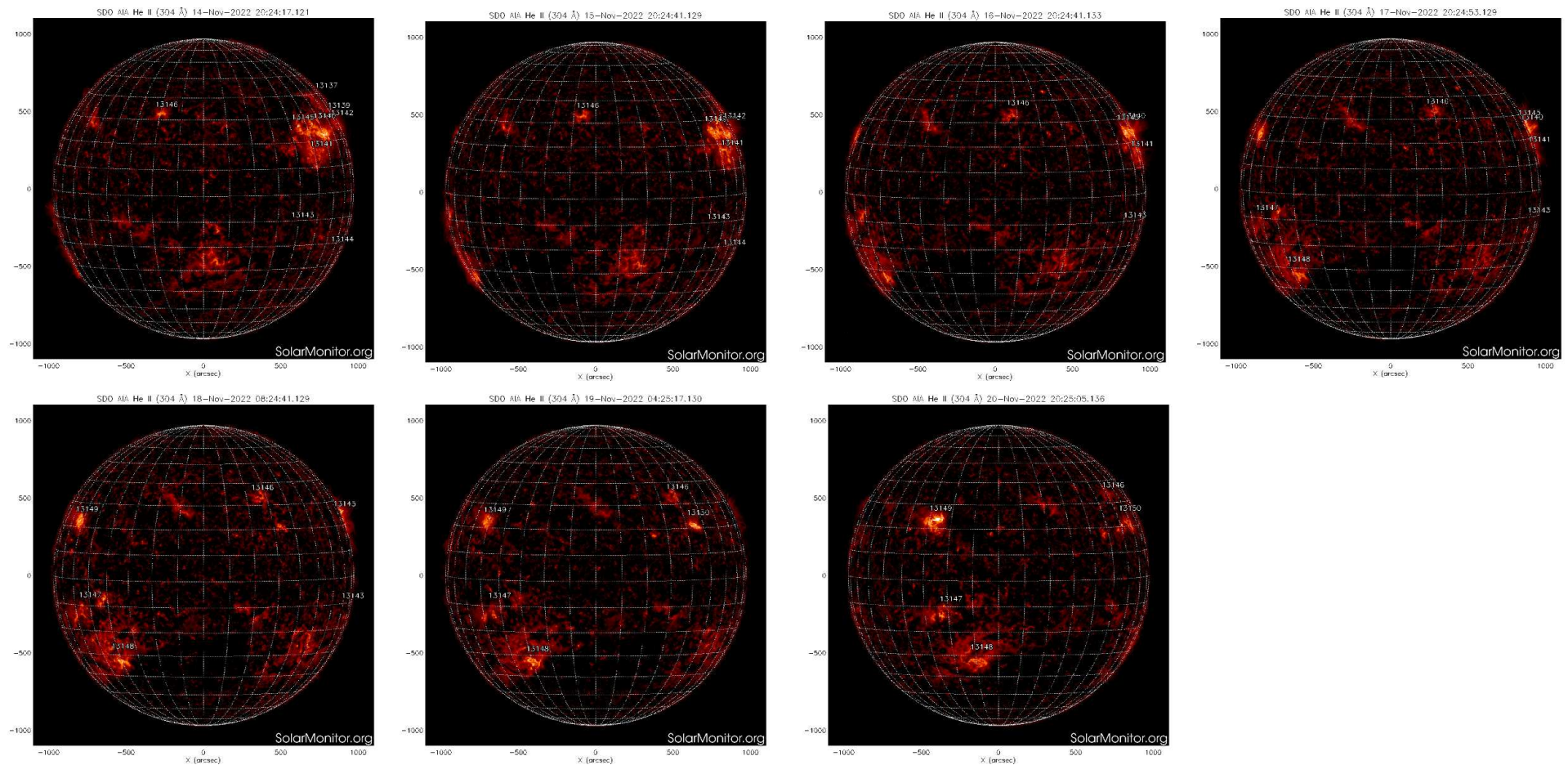
<https://www.swpc.noaa.gov/products/goes-x-ray-flux>
<https://www.spaceweatherlive.com/en/archive/2022/11/15/xray.html>

Sun flare



<https://www.swpc.noaa.gov/products/goes-x-ray-flux>
<https://www.spaceweatherlive.com/en/archive/2022/11/15/xray.html>

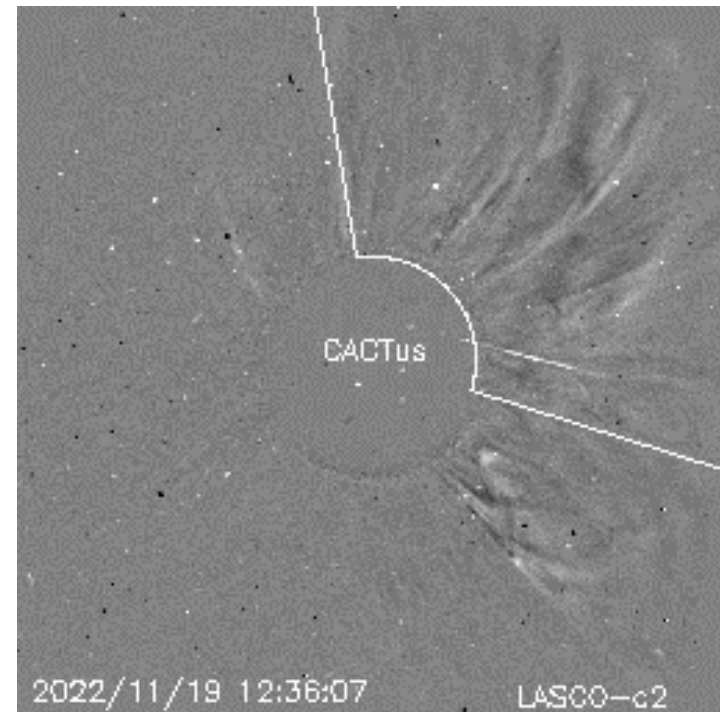
Prominence



https://www.solarmonitor.org/full_disk.php?date=20221120&type=saia_00304®ion=&indexnum=4

CME

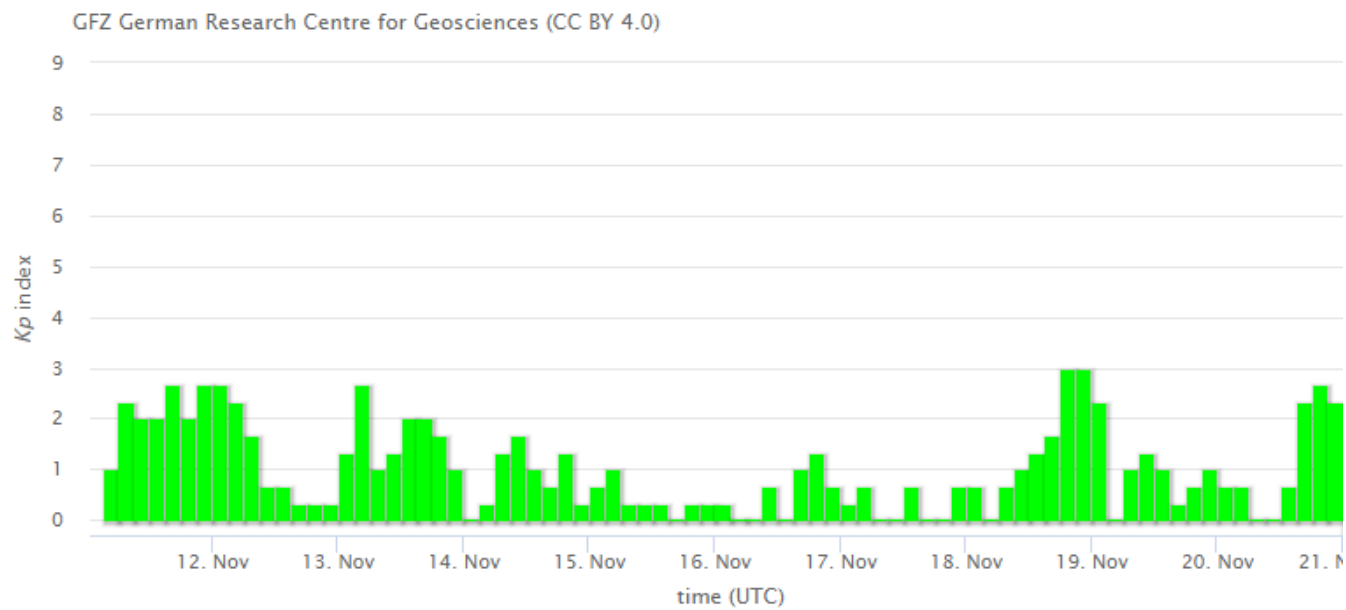
t0	dt0	pa	da	v	dv	minv	maxv
2022/11/20 02:00	04	204	034	1077	0486	0367	1953
2022/11/19 20:48	01	070	014	0607	0340	0538	1359
2022/11/19 16:36	01	052	018	1258	0482	0235	1689
2022/11/19 16:12	01	216	006	0359	0131	0228	0496
2022/11/19 14:48	01	091	008	1079	0081	0946	1157
2022/11/19 13:36	01	326	038	0520	0182	0220	0762
2022/11/19 13:36	01	216	006	0275	0062	0213	0339
2022/11/19 13:36	05	311	116	0376	0292	0195	1116
2022/11/19 13:25	01	280	006	0338	0814	0192	1953
2022/11/19 12:24	01	222	022	0327	0136	0122	0508
2022/11/19 07:24	03	284	054	0172	0113	0115	0452
2022/11/19 05:12	02	043	036	0905	0622	0446	1952
2022/11/19 03:48	02	242	066	1302	0537	0390	1953
2022/11/18 09:36	02	307	064	0744	0076	0637	0893
2022/11/18 07:36	01	012	010	0772	0193	0651	1200
2022/11/17 19:00	01	263	008	0466	0041	0405	0488
2022/11/17 17:36	01	272	014	0400	0009	0381	0405
2022/11/17 09:48	02	269	024	0651	0299	0204	1249
2022/11/16 23:24	02	259	032	0191	0002	0188	0195
2022/11/16 22:36	00	265	012	0203	0045	0160	0303
2022/11/16 18:48	02	257	028	0148	0010	0143	0167
2022/11/16 16:00	02	251	028	0141	0097	0102	0388
2022/11/16 14:24	02	019	032	0292	0071	0147	0359
2022/11/16 13:25	04	238	038	0134	0008	0116	0144
2022/11/16 06:36	02	338	010	0126	0072	0122	0242
2022/11/16 05:24	01	062	022	0669	0285	0466	1302
2022/11/16 01:36	02	080	018	1491	0559	0566	1953
2022/11/15 18:36	01	173	028	0694	0320	0405	1358
2022/11/15 13:36	02	328	034	0273	0066	0173	0405
2022/11/15 08:00	01	269	016	0306	0041	0249	0376
2022/11/15 04:24	02	330	006	0242	0135	0101	0459
2022/11/15 02:00	01	305	012	0289	0067	0214	0395
2022/11/14 19:12	01	323	016	0163	0020	0137	0204
2022/11/14 19:00	03	274	058	0318	0077	0134	0395
2022/11/14 02:48	02	267	056	0408	0058	0271	0573



<https://www.sidc.be/cactus/out/latestCMEs.html>

<https://www.spaceweatherlive.com/en/solar-activity/latest-cmes.html>

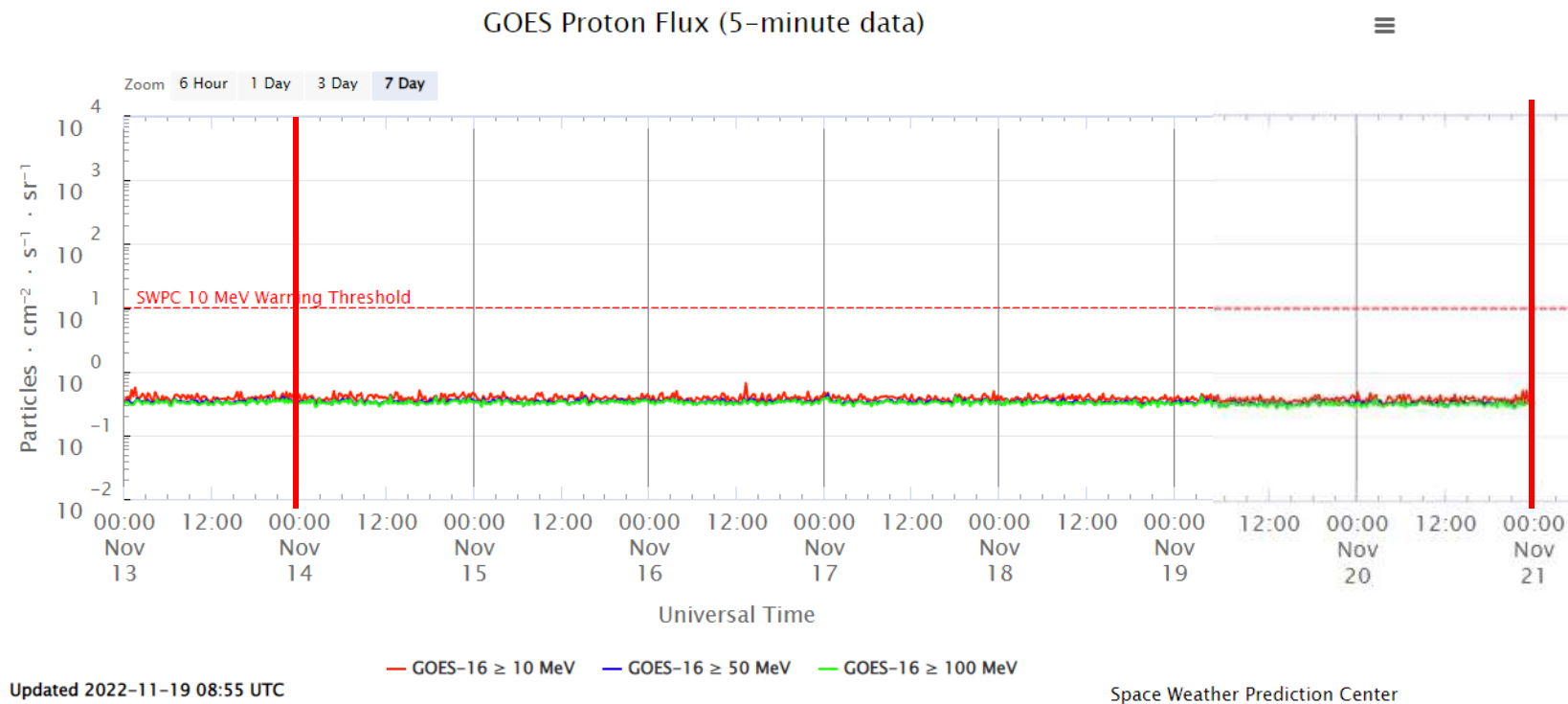
Kp index



Scale	Description	Physical measure
G 5	Extreme	Kp = 9
G 4	Severe	Kp = 8, including a 9-
G 3	Strong	Kp = 7
G 2	Moderate	Kp = 6
G 1	Minor	Kp = 5

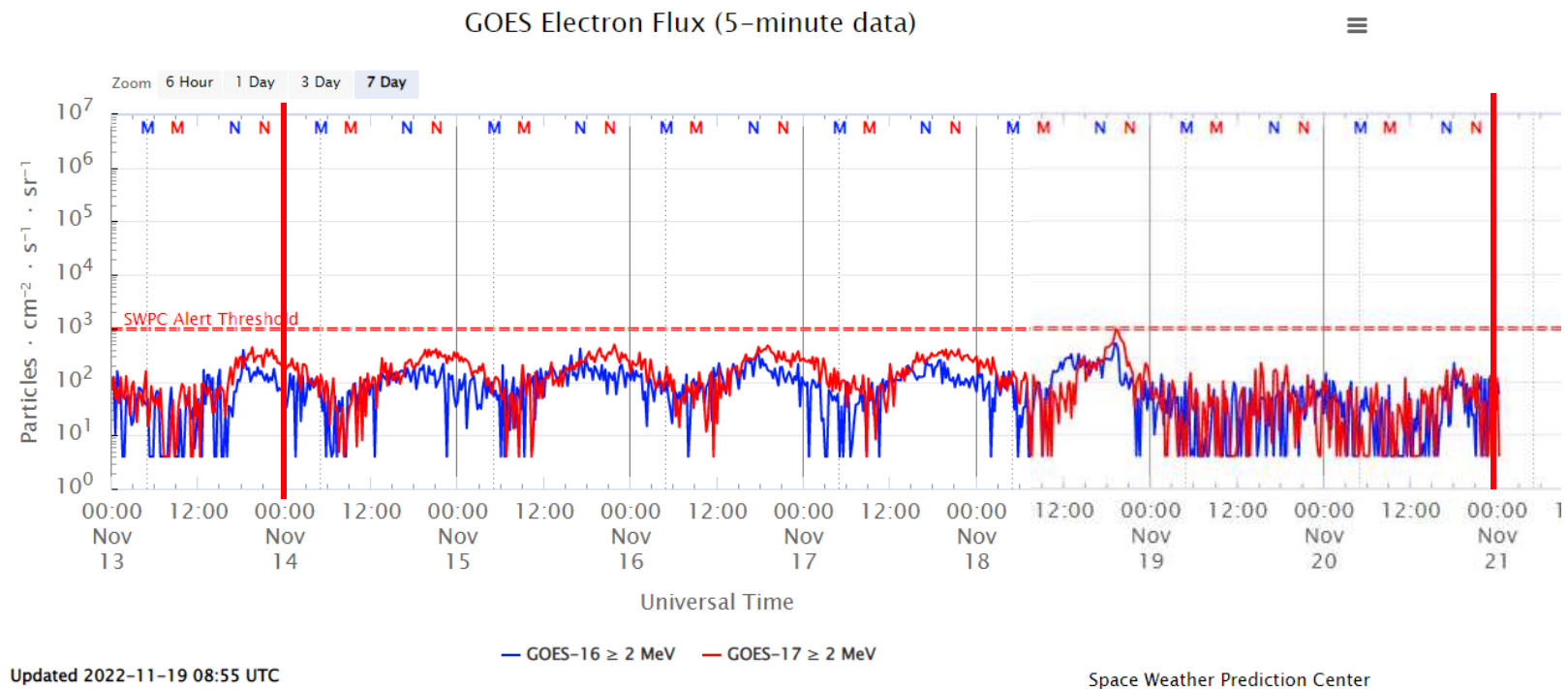
<https://kp.gfz-potsdam.de/en/hp30-hp60/10-days-plot>

Proton flux



<https://www.swpc.noaa.gov/products/goes-proton-flux>

Electron flux



<https://www.swpc.noaa.gov/products/goes-proton-flux>

太空新聞

Artemis I



- Wednesday, Nov. 16, 2022
- the Orion spacecraft & Space Launch System (SLS) rocket
- 25.5 days
- 無人繞月任務



https://www.nasa.gov/sites/default/files/styles/side_image/public/umbnails/image/52503690288_9bb22ec573_o.jpeg?itok=jJTrk6Pe

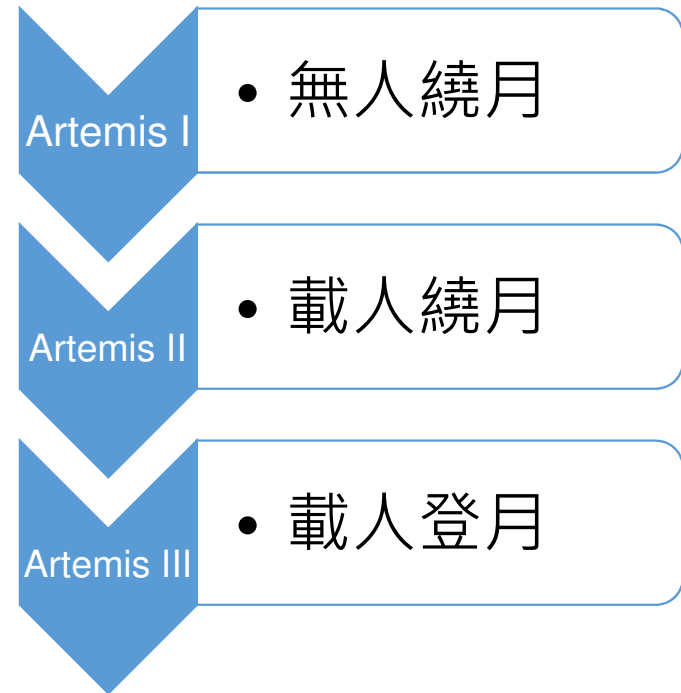
Artemis I

➤任務

- 驗證SLS火箭、獵戶座太空船的安全性
- Biology Experiment-1
- MARE(輻射防護背心之假體實驗)

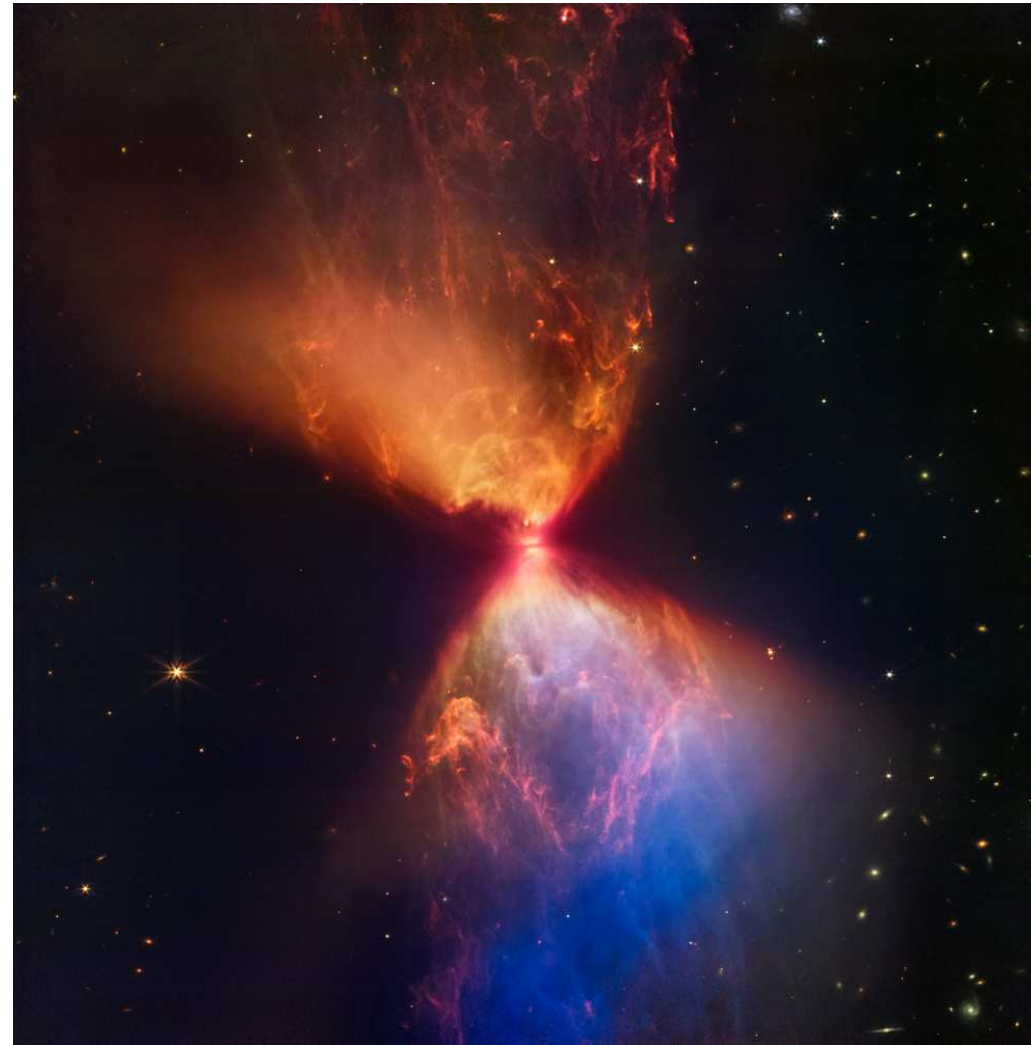
➤搭載乘客

- 史奴比 & 笑笑羊玩偶
- 三個假人(Moonikin Campos、Helga、Zohar)



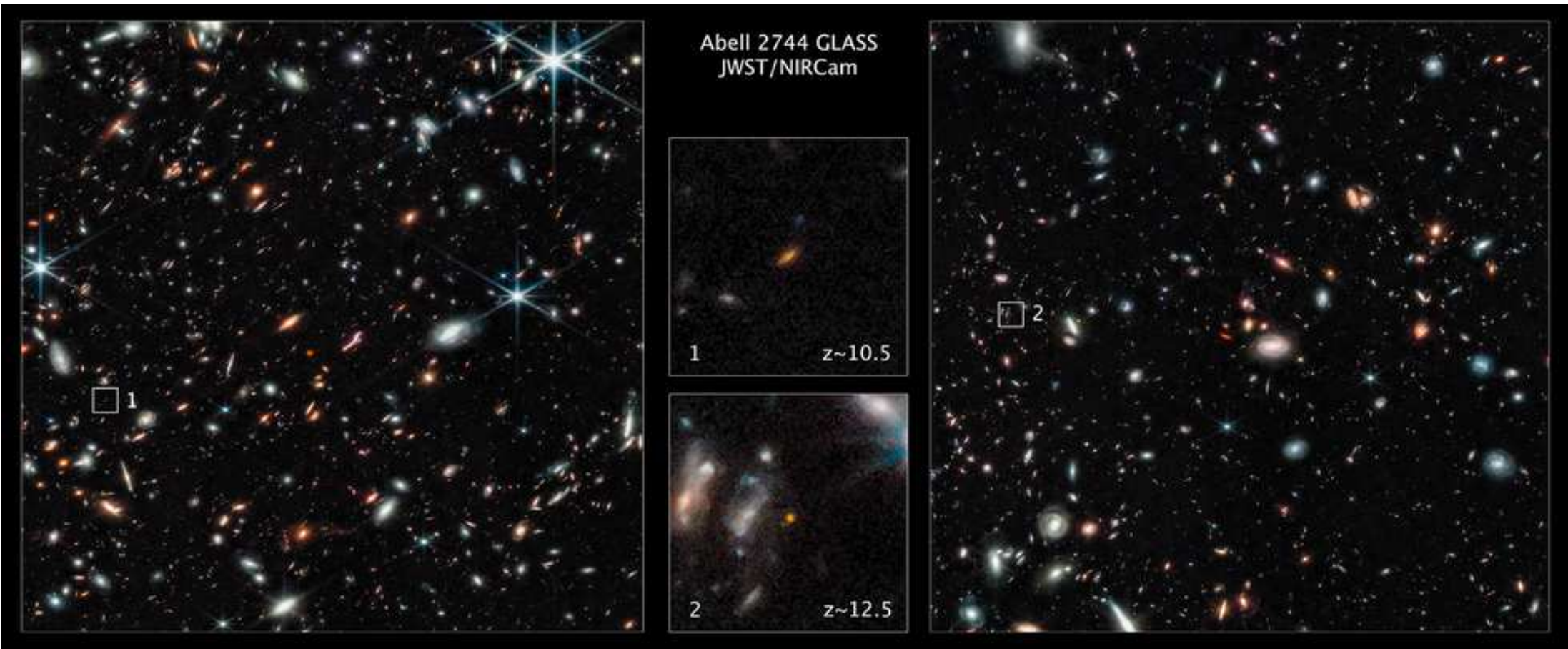
dark cloud L1527

- James Webb Space Telescope
- the earliest stage of star formation



https://www.nasa.gov/sites/default/files/styles/full_width/public/thumbnails/image/stsci-01ggwd2f59v4tbrremm03rztyb.png?itok=c4Mpuf2u

NASA's Webb Draws Back Curtain on Universe's Early Galaxies



https://www.nasa.gov/sites/default/files/styles/full_width/public/thumbnails/image/stsci-01gg7tepk32r6zyadyev5vrexv_1.png?itok=9el-mWxl

References

- <https://www.nasa.gov/press-release/liftoff-nasa-s-artemis-i-mega-rocket-launches-orion-to-moon>
- <https://news.ltn.com.tw/news/world/breakingnews/4125526>
- <https://www.nasa.gov/artemis-1>
- <https://www.nasa.gov/feature/goddard/2022/nasa-s-webb-draws-back-curtain-on-universe-s-early-galaxies>
- <https://www.nasa.gov/feature/goddard/2022/nasa-s-webb-catches-fiery-hourglass-as-new-star-forms>