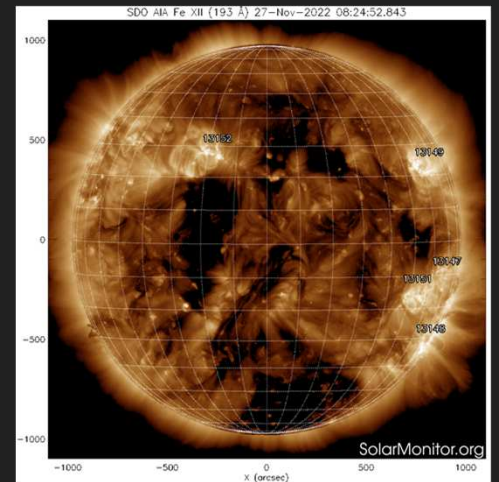
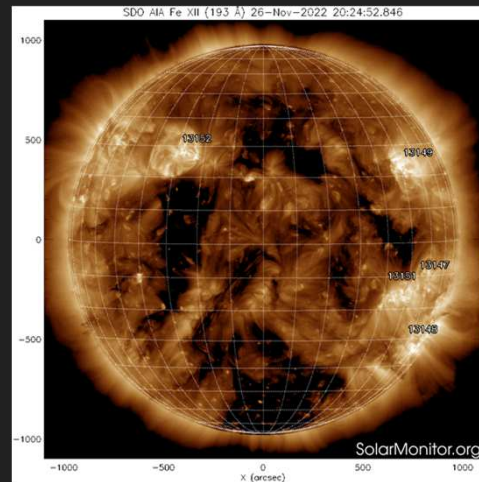
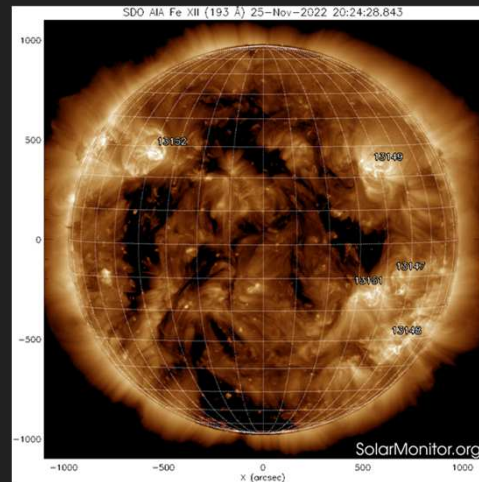
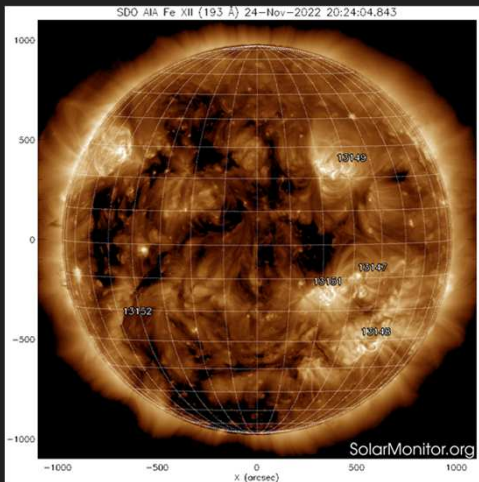
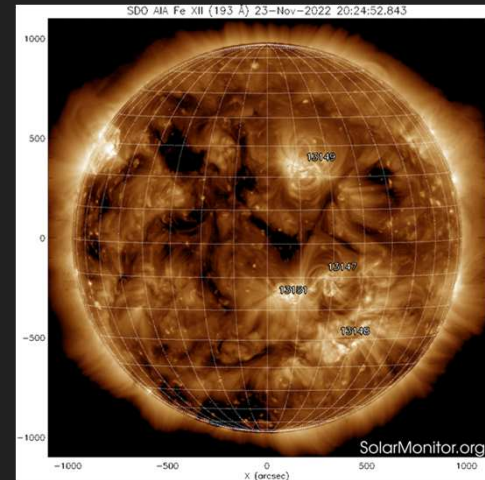
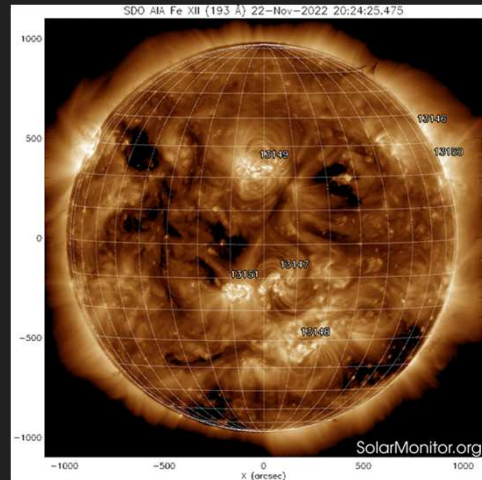
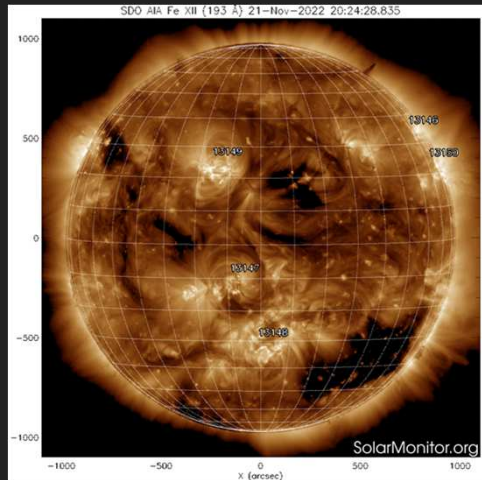


Week 11

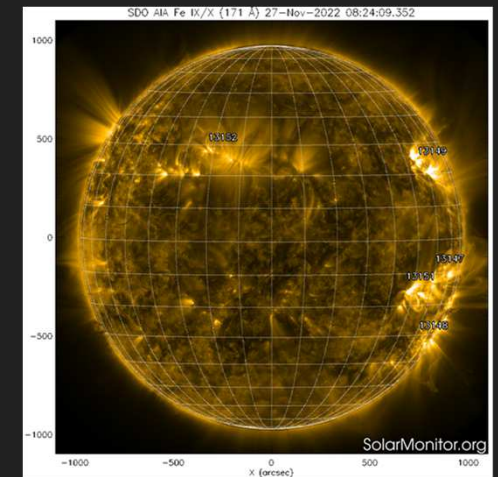
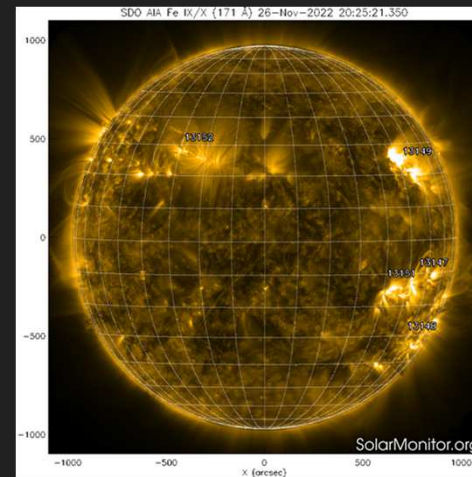
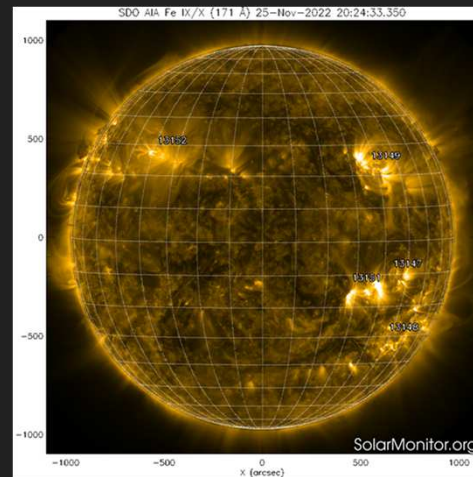
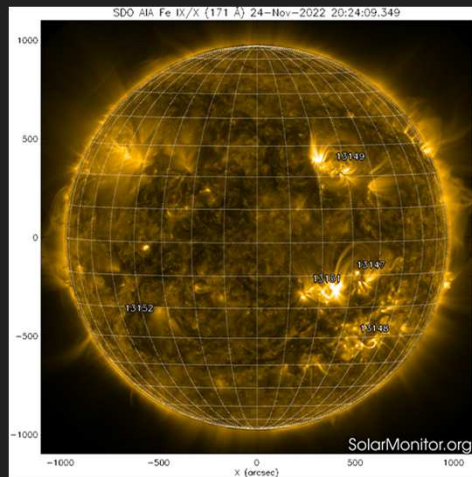
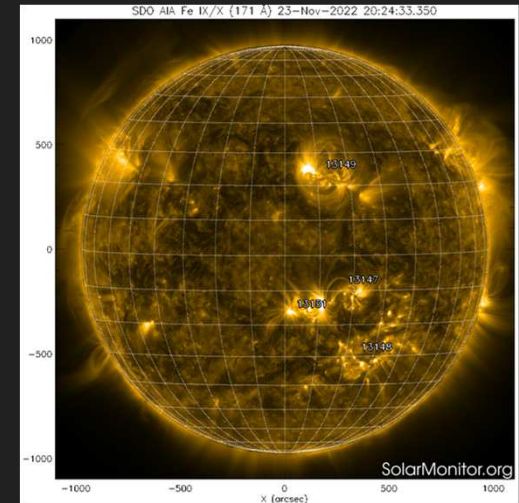
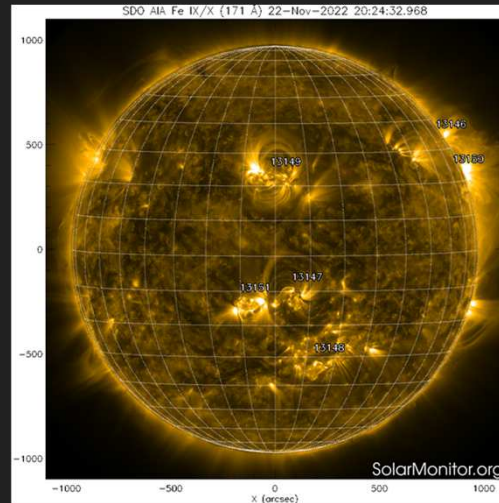
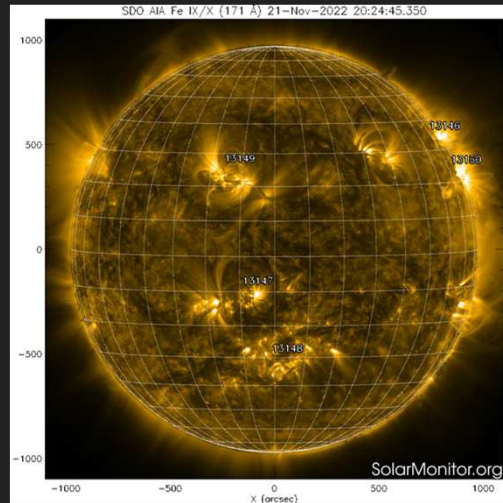
11/21 ~ 11/27

郭家欣、賴以芸

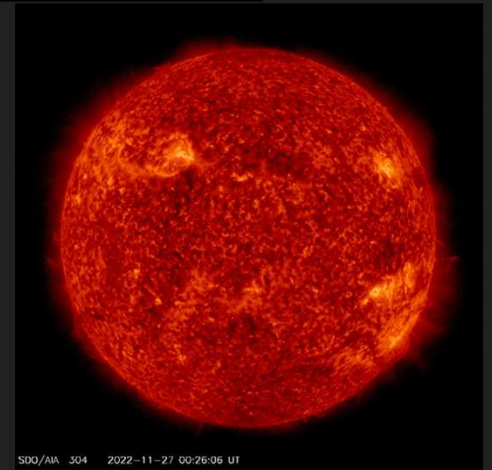
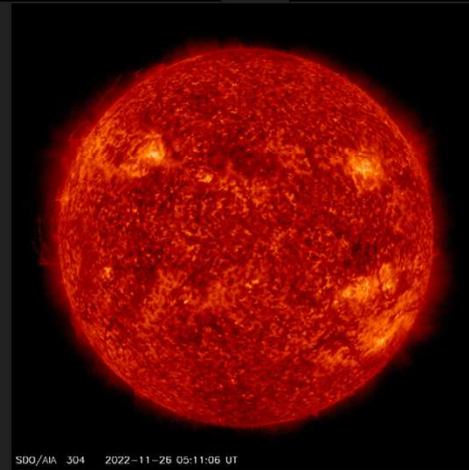
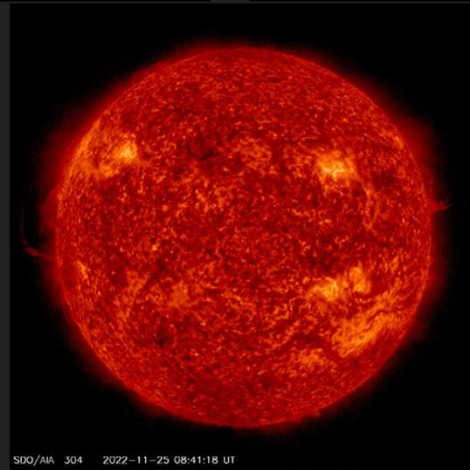
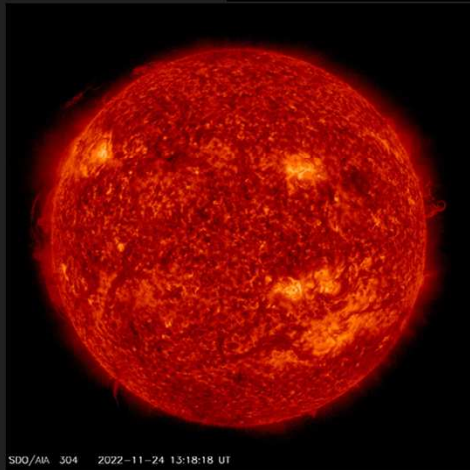
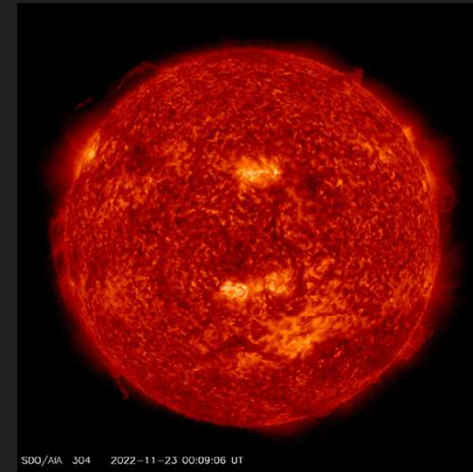
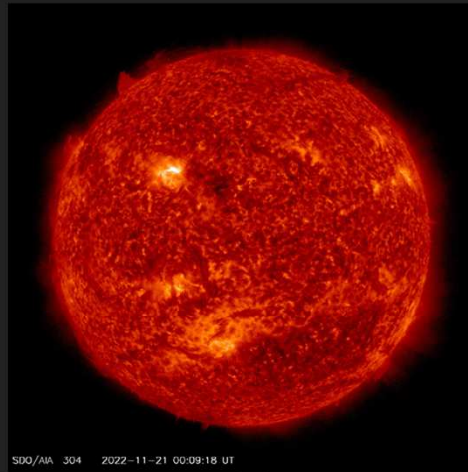
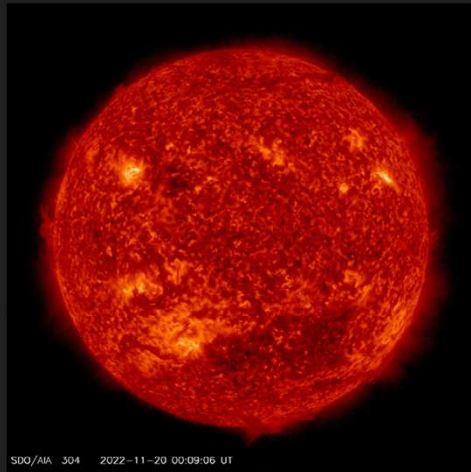
193Å (日冕洞)



171Å (日冕環)

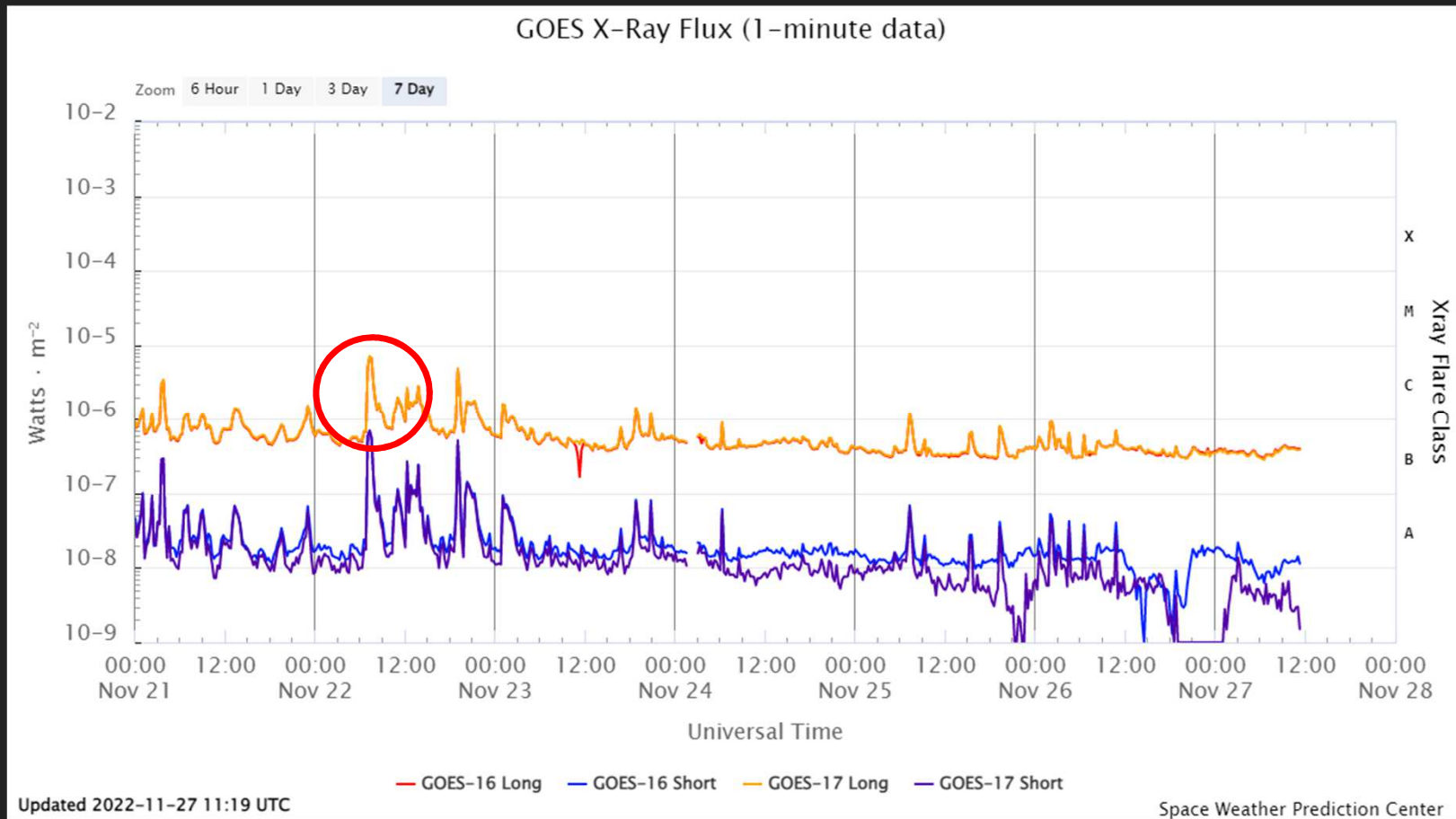


304Å (日珥)

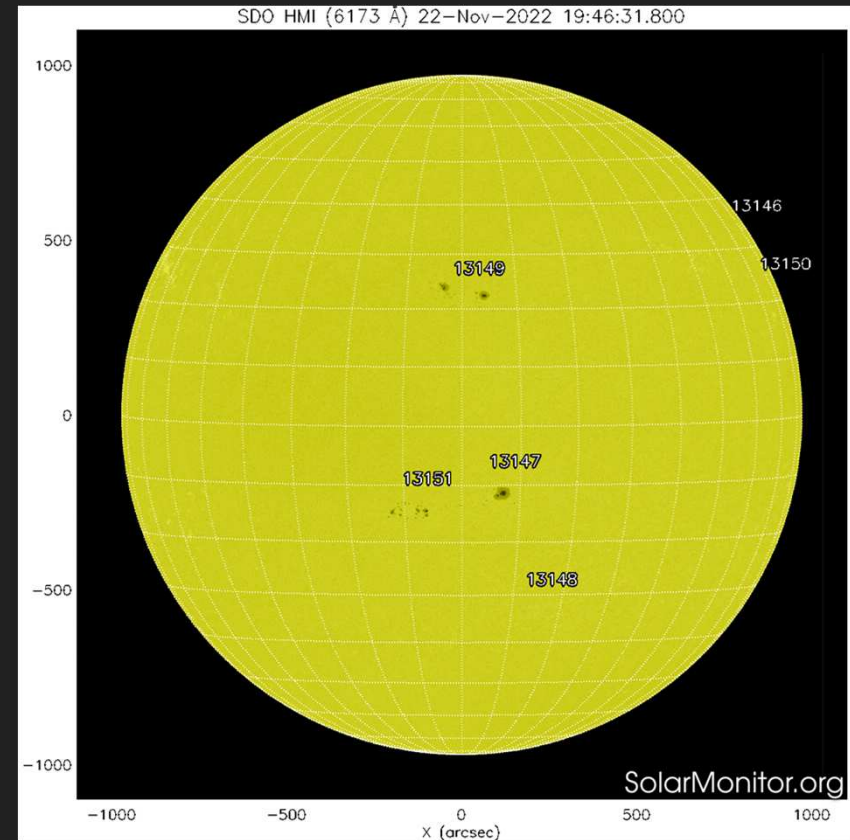
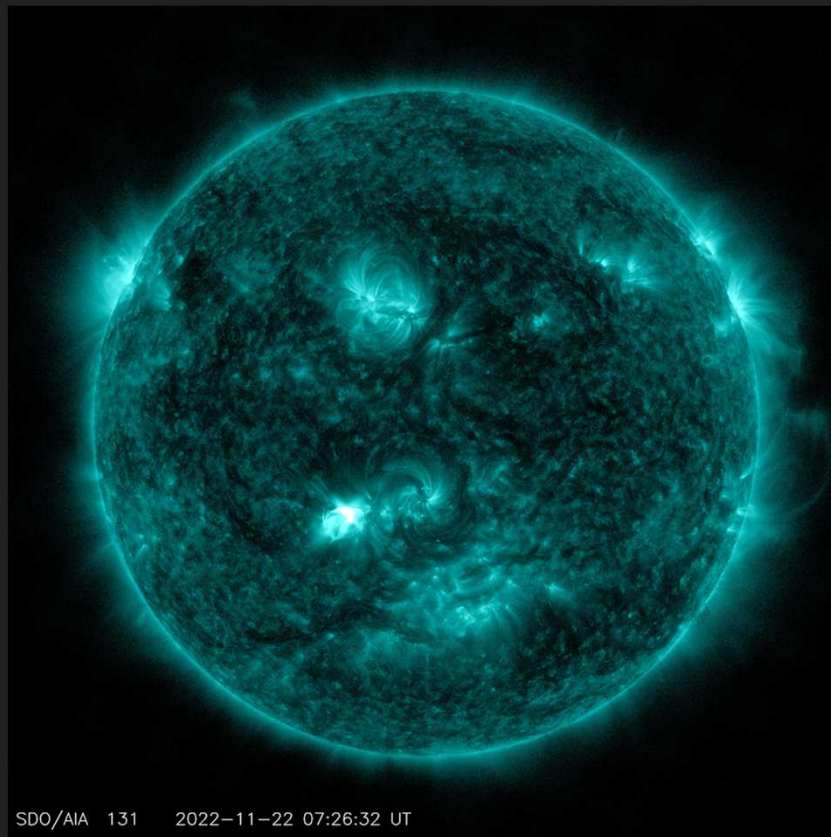


<https://sdo.gsfc.nasa.gov/data/latest48.php?q=0304>

GOES X-ray flux



C7.1 Solar Flare

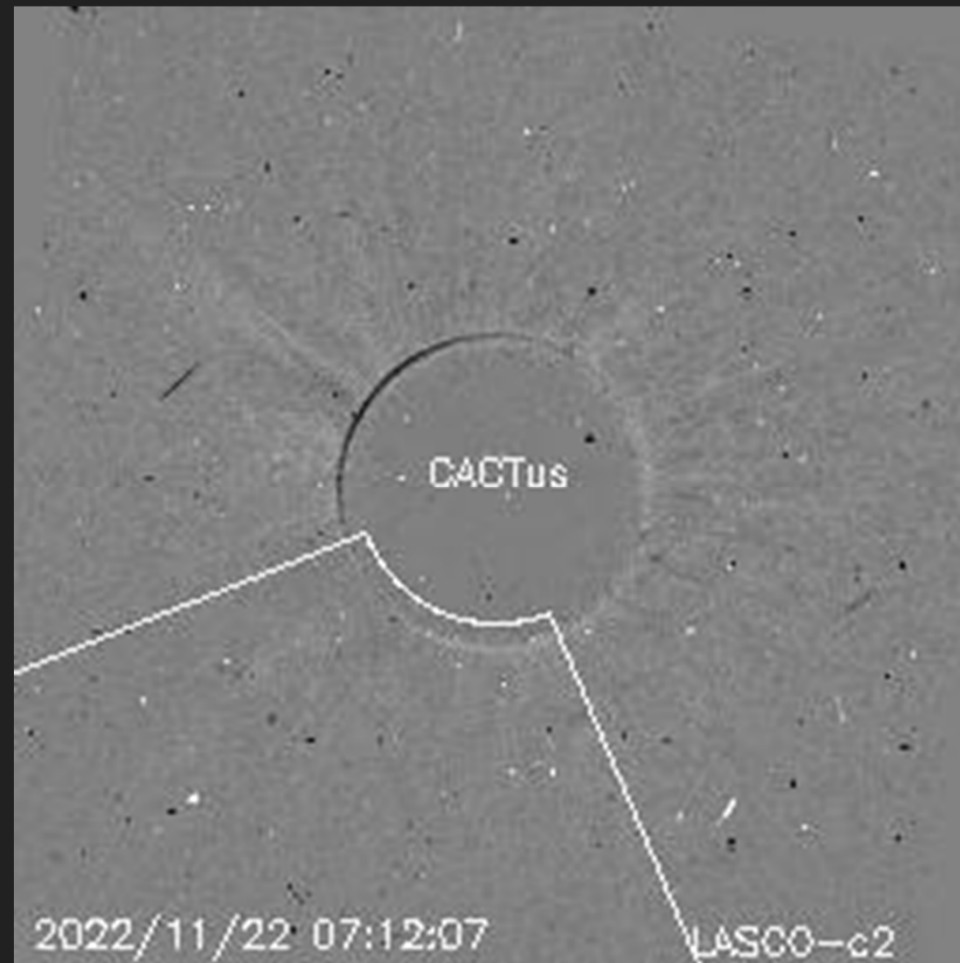


<https://sdo.gsfc.nasa.gov/data/latest48.php?q=0304>
www.SolarMonitor.org

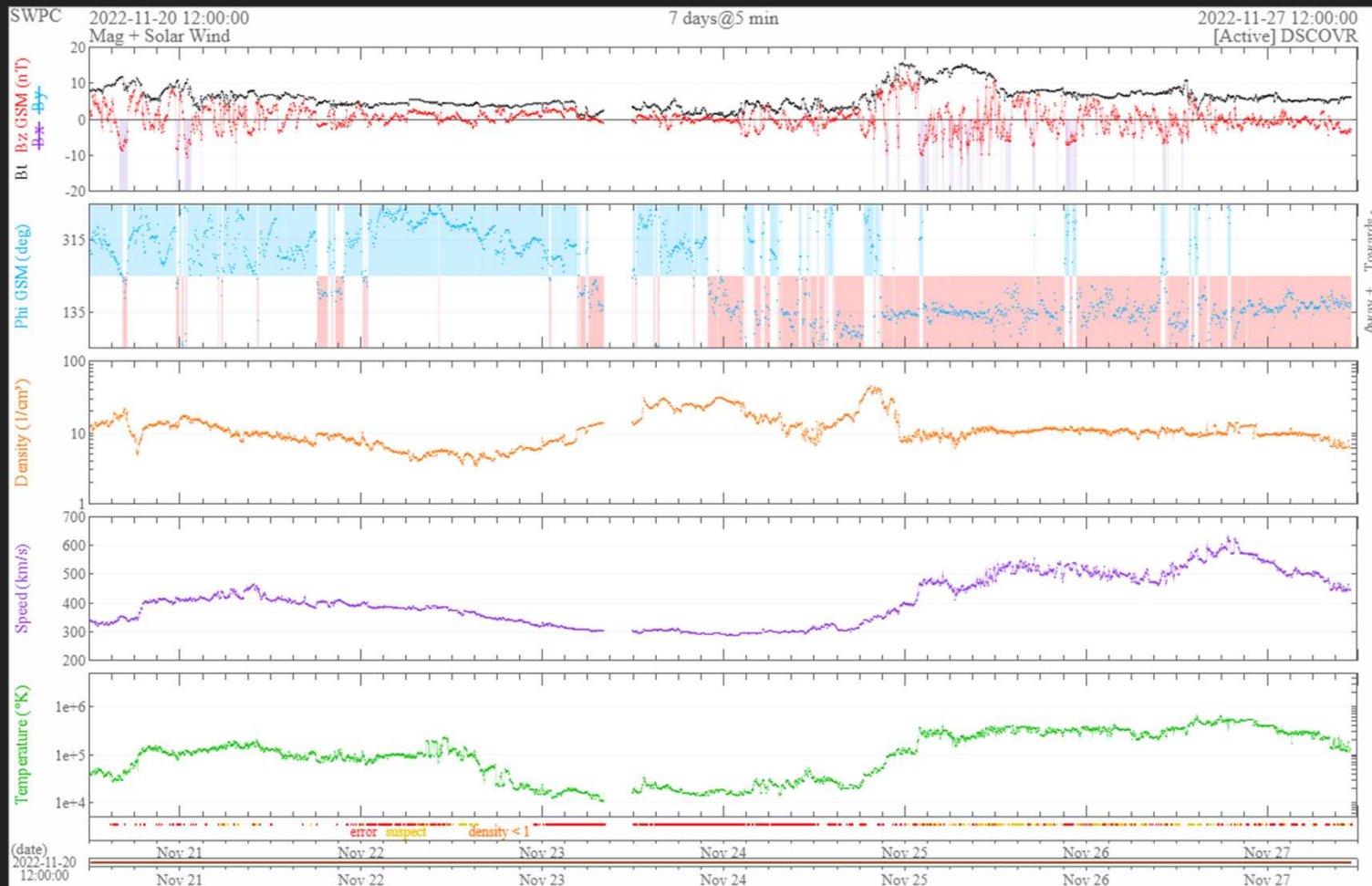
31 times CME last week

# CME	t0	dt0	pa	da	v	dv	minv	maxv	halo?
0031	2022/11/27 06:36	02	104	074	0331	0060	0217	0438	
0030	2022/11/26 17:24	02	117	048	0156	0059	0107	0283	
0029	2022/11/26 16:00	04	305	052	0227	0032	0155	0297	
0028	2022/11/26 10:48	01	076	010	1079	0111	0946	1249	
0027	2022/11/26 08:48	01	055	008	0267	0109	0189	0466	
0026	2022/11/26 08:48	00	063	008	0292	0147	0229	0553	
0025	2022/11/26 08:00	01	173	012	0234	0049	0173	0318	
0024	2022/11/26 05:12	02	184	010	0125	0056	0113	0238	
0023	2022/11/25 23:12	00	186	006	0108	0003	0101	0111	
0022	2022/11/25 23:12	05	194	062	0186	0062	0095	0343	
0021	2022/11/25 22:24	02	300	070	0466	0191	0142	0868	
0020	2022/11/25 09:48	01	188	006	0206	0678	0187	1562	
0019	2022/11/25 09:48	00	023	008	0151	0227	0102	0600	
0018	2022/11/25 09:36	01	194	014	0726	0330	0578	1358	
0017	2022/11/25 03:12	02	190	006	0368	0541	0097	1385	
0016	2022/11/24 14:24	01	284	006	0236	0020	0204	0250	
0015	2022/11/24 10:12	01	299	012	0260	0029	0244	0312	
0014	2022/11/24 10:12	03	287	048	0209	0037	0153	0309	
0013	2022/11/24 10:00	01	017	012	0491	0086	0341	0625	
0012	2022/11/24 01:48	06	164	034	0126	0013	0102	0143	
0011	2022/11/23 21:24	01	128	006	0424	0259	0167	0694	
0010	2022/11/23 15:48	11	303	076	0279	0084	0114	0496	
0009	2022/11/23 07:24	02	292	034	0265	0079	0168	0422	
0008	2022/11/23 07:24	01	284	010	0332	0079	0194	0411	
0007	2022/11/23 00:48	02	188	010	0672	0163	0452	0909	
0006	2022/11/22 20:36	02	297	028	0234	0046	0201	0376	
0005	2022/11/22 20:12	01	327	012	0452	0282	0334	0976	
0004	2022/11/22 18:00	02	137	036	0307	0040	0212	0372	
0003	2022/11/22 13:36	02	092	038	0258	0119	0192	0578	
0002	2022/11/22 07:48	02	157	092	0248	0054	0131	0400	II
0001	2022/11/22 03:48	01	044	022	0546	0114	0281	0694	

2022/11/22 07:48



Solar Wind

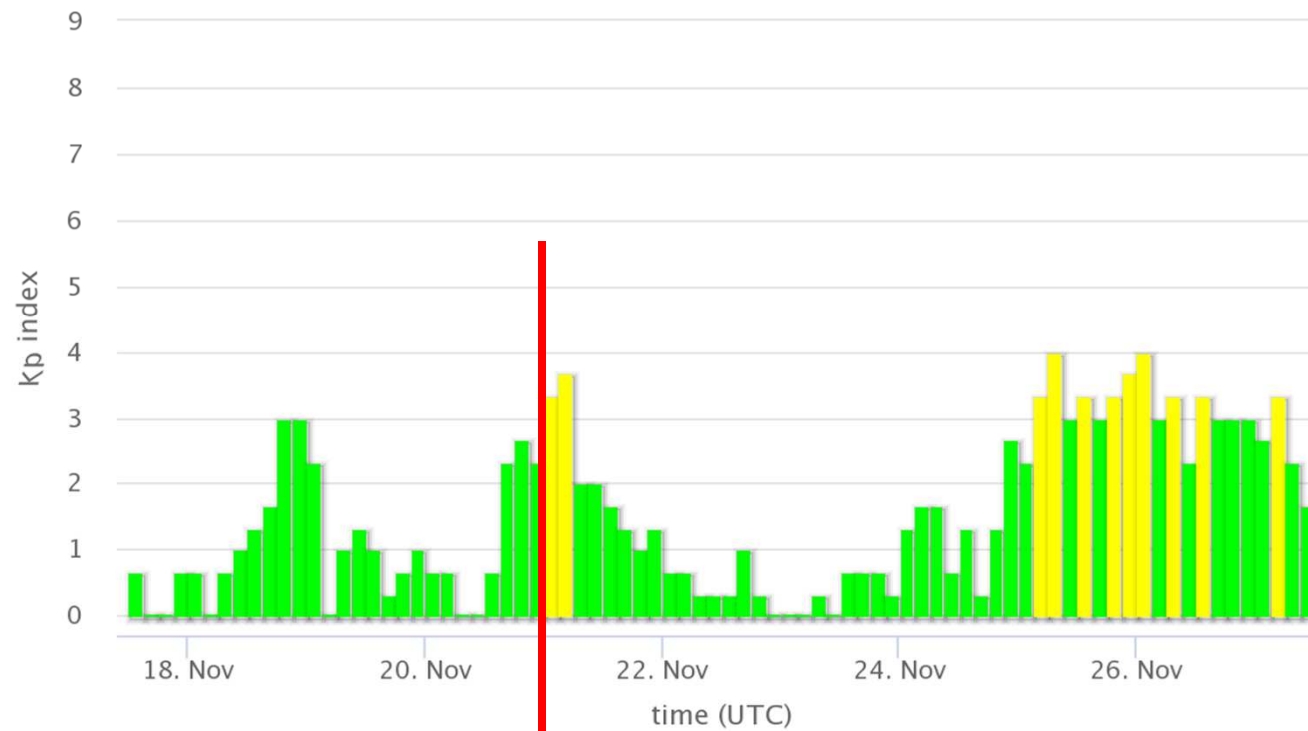


[Real Time Solar Wind | NOAA / NWS Space Weather Prediction Center](#)

Kp index

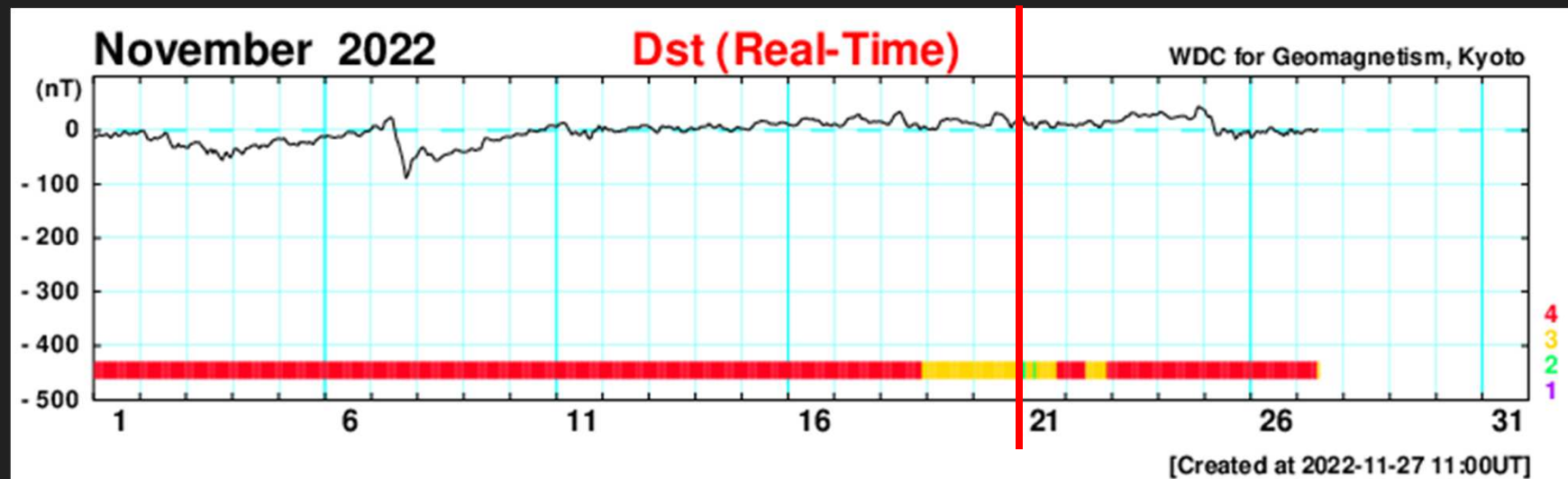
Current K_p index

GFZ German Research Centre for Geosciences (CC BY 4.0)



[10 days plot - Kp index \(gfz-potsdam.de\)](https://www.gfz-potsdam.de/en/10-days-plot-kp-index)

Dst index

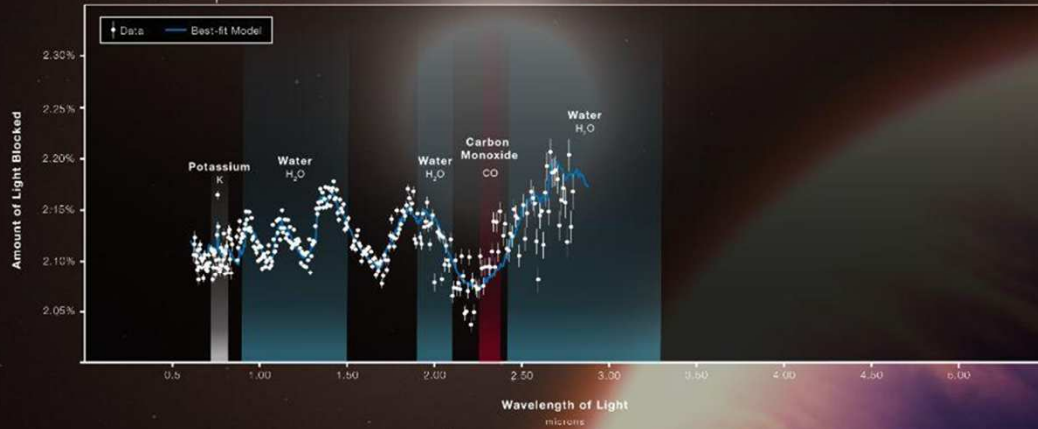


[Real-time \(Quicklook\) Dst Index Monthly Plot and Table \(kyoto-u.ac.jp\)](https://www.kyoto-u.ac.jp/~wdc/geomag/quicklook/dst/)

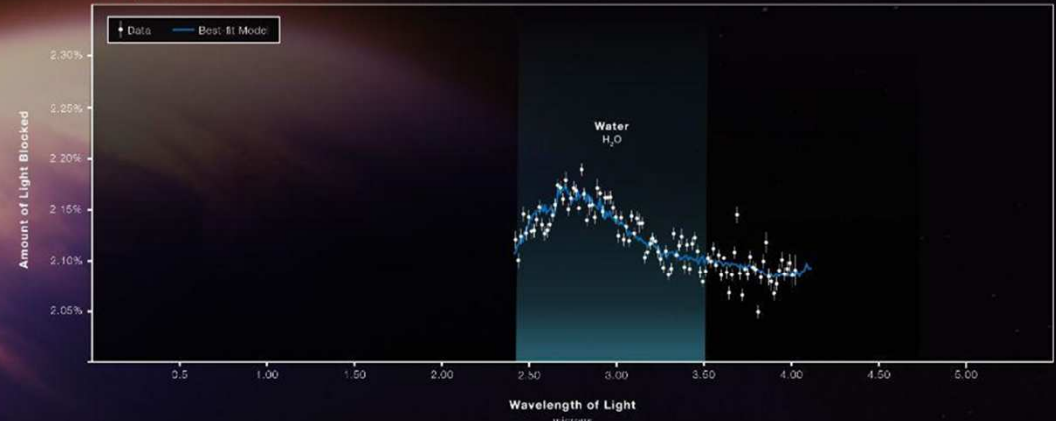
太空新聞

NASA's Webb Reveals an Exoplanet(WASP-39b) Atmosphere

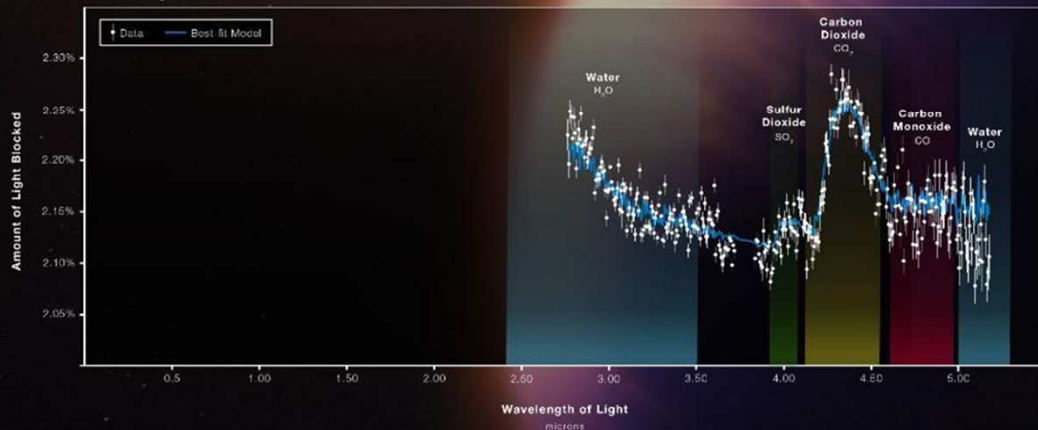
NIRISS | Single Object Slitless Spectroscopy



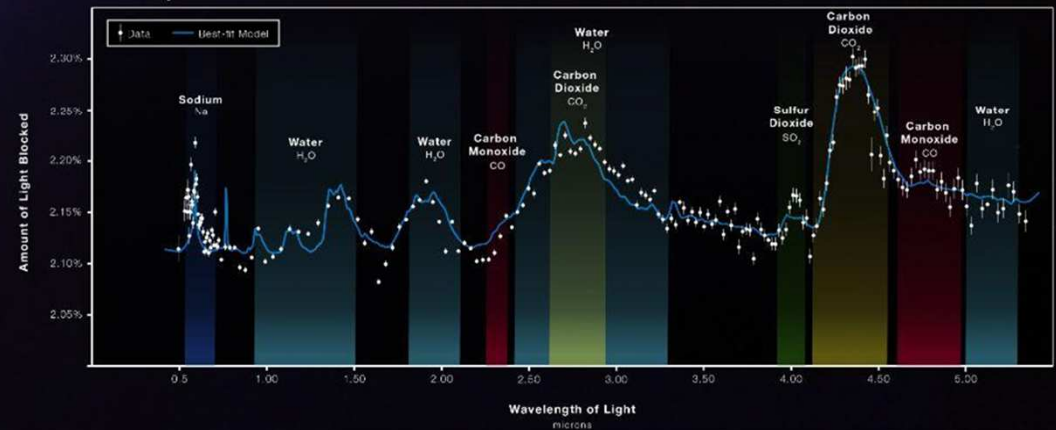
NIRCam F322W2



NIRSpec G395H



NIRSpec PRISM



<https://www.nasa.gov/feature/goddard/2022/nasa-s-webb-reveals-an-exoplanet-atmosphere-as-never-seen-before>

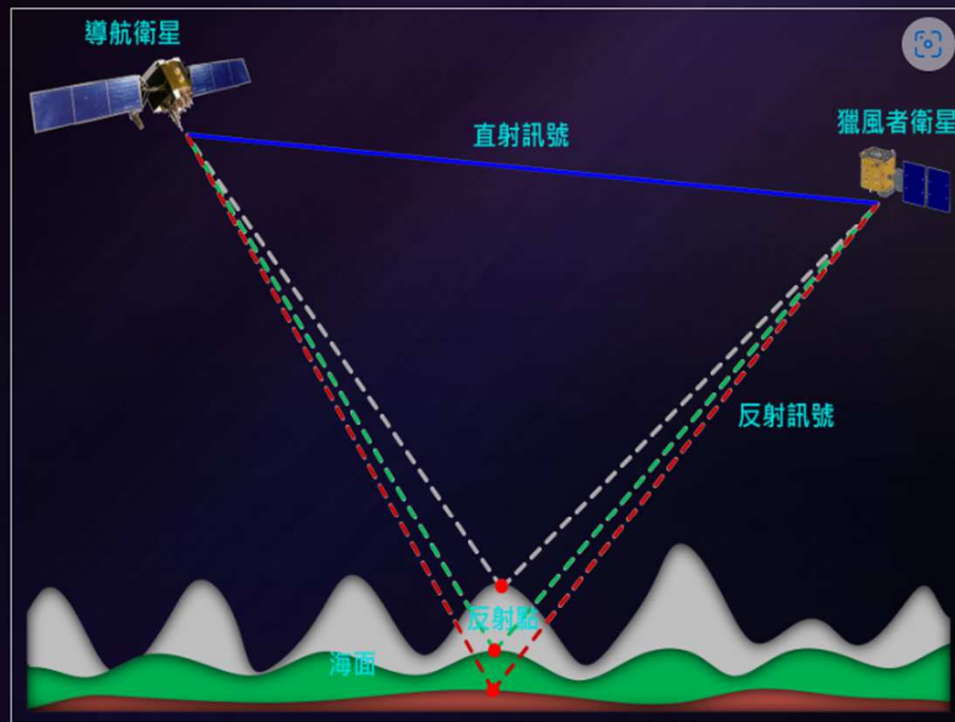
獵風者衛星完成測試



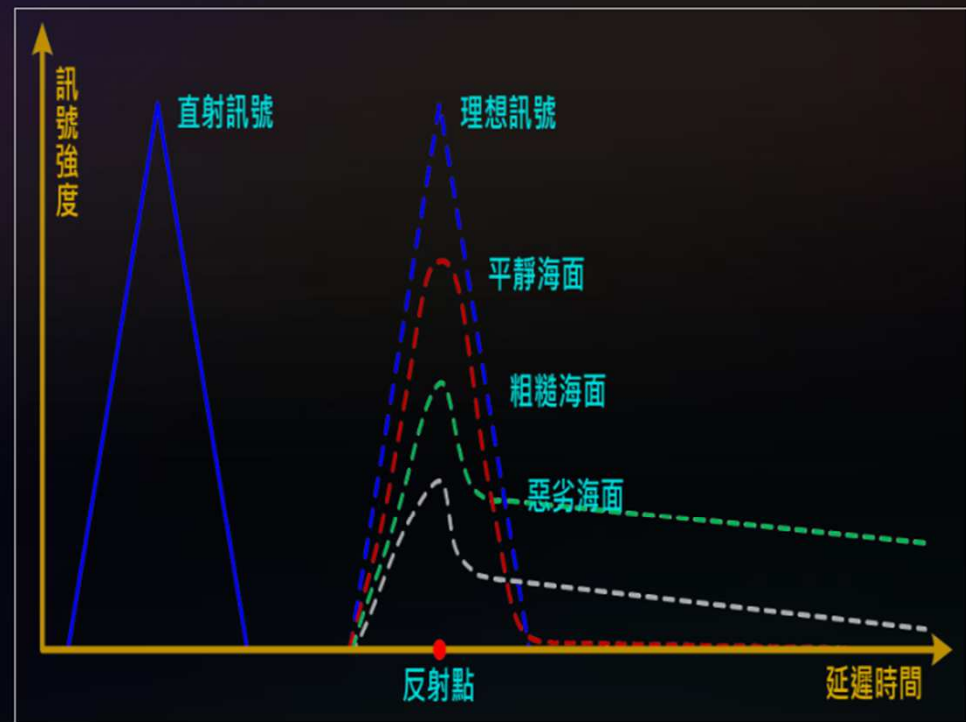
- 11/25完成全功能測試
- 預計將於明年1月初召開「運送前審查會議」
- 搭載太空中心自行研發的全球導航衛星系統反射訊號接收儀 (Global Navigation Satellite System-Reflectometry , GNSS-R)

https://www.nspo.narl.org.tw/news_view.php?c=221125001&ln=zh_TW

獵風者衛星



GNSS-R原理



GNSS-R原理

堅果立方衛星乘獵鷹九號升空，12 月由國際太空站入軌



- 堅果衛星 (NUTSAT) 在台灣時間 27 日凌晨 3 點 20 分，搭乘 SpaceX 的 Falcon-9 火箭發射至國際太空站
- 預計 12 月由國際太空站的機械手臂釋放入軌，未來將在軌道高度 420 公里的地球圓形軌道服役
- 搭載虎尾科大自製的廣播式自動回報監視(ADS-B)接收器

Reference

- <https://www.nasa.gov/feature/goddard/2022/nasa-s-webb-reveals-an-exoplanet-atmosphere-as-never-seen-before>
- https://www.nspo.narl.org.tw/news_view.php?c=221125001&ln=zh_TW
- <https://technews.tw/2022/11/27/cubesat-nutsat/>
- https://wdc.kugi.kyoto-u.ac.jp/dst_realtime/202211/index.html
- <https://kp.gfz-potsdam.de/en/hp30-hp60/10-days-plot>
- <https://www.swpc.noaa.gov/products/real-time-solar-wind>
- <https://www.swpc.noaa.gov/products/goes-x-ray-flux>
- <https://www.sidc.be/cactus/out/latestCMEs.html>
- <https://www.solarmonitor.org/index.php>
- <https://sdo.gsfc.nasa.gov/data/latest48.php?q=0304>
- <https://www.nspo.narl.org.tw/inprogress.php?c=20012001>