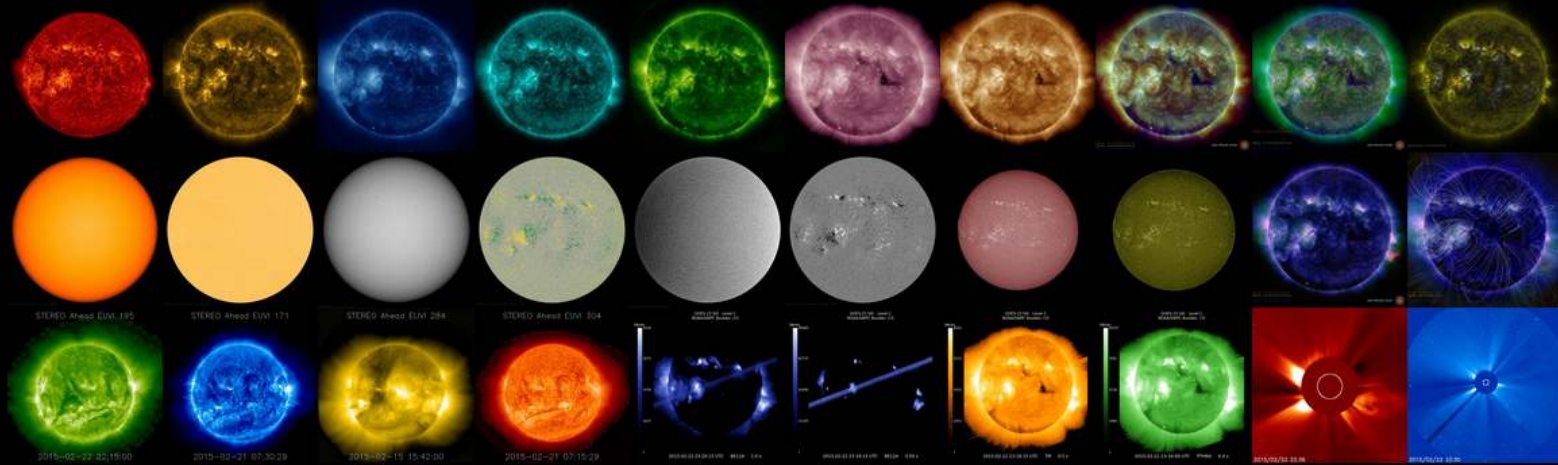
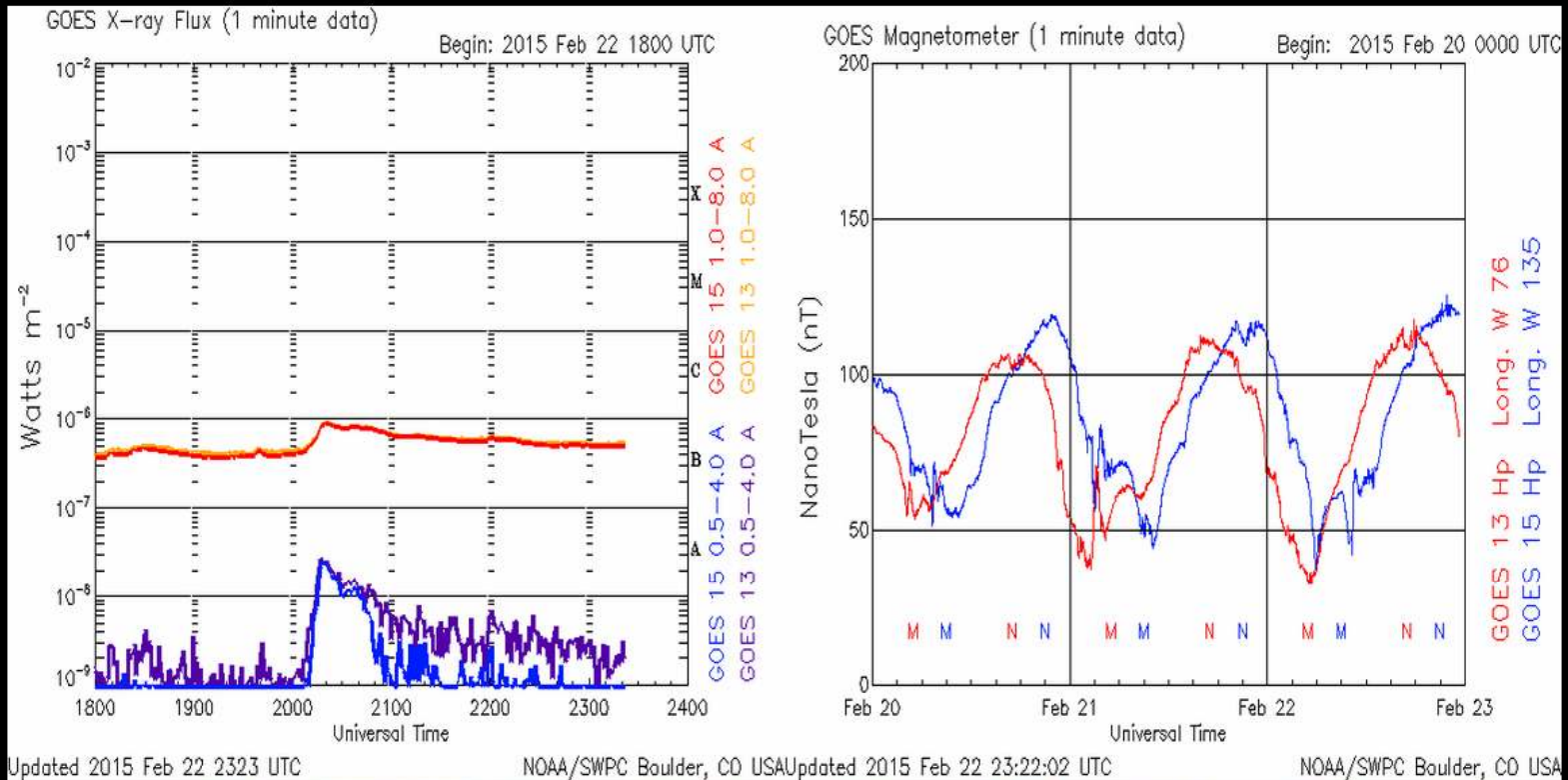
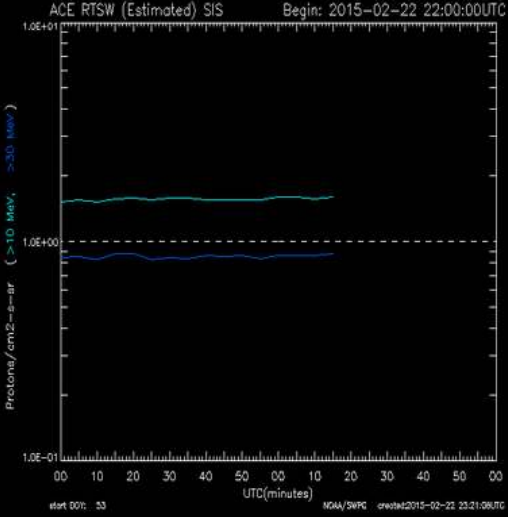
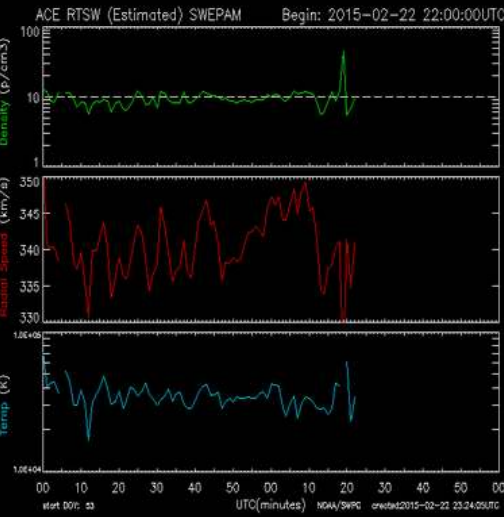
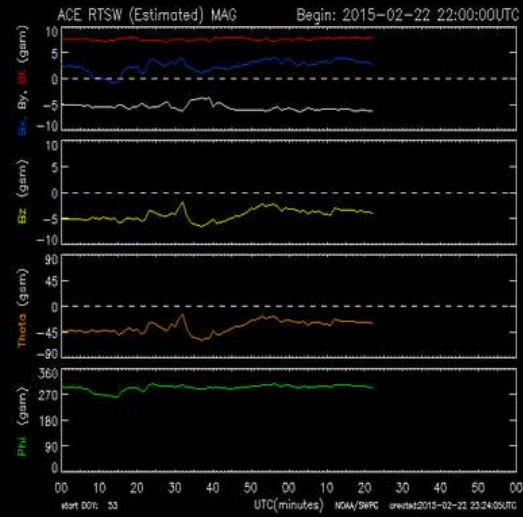
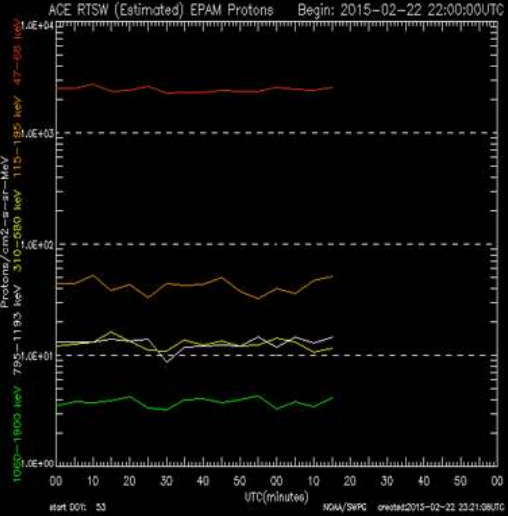
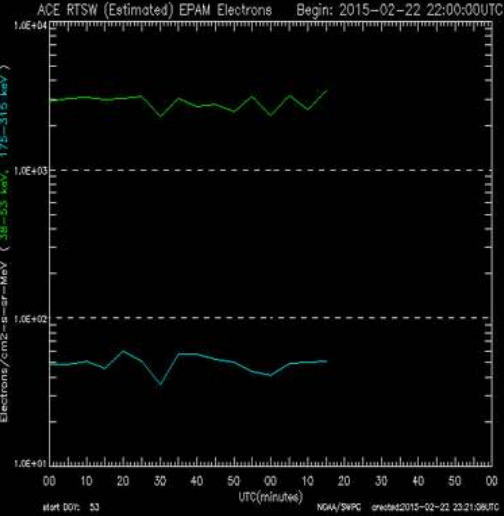
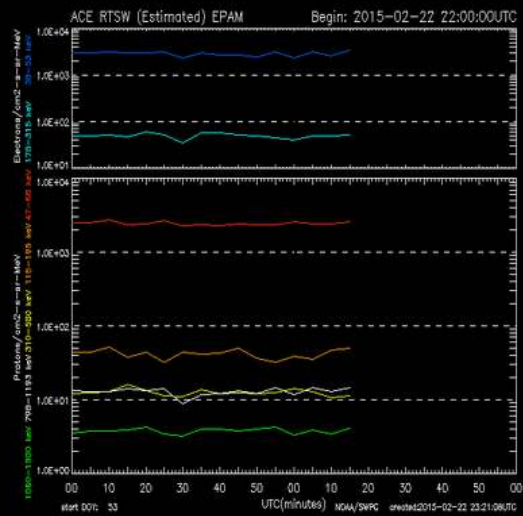


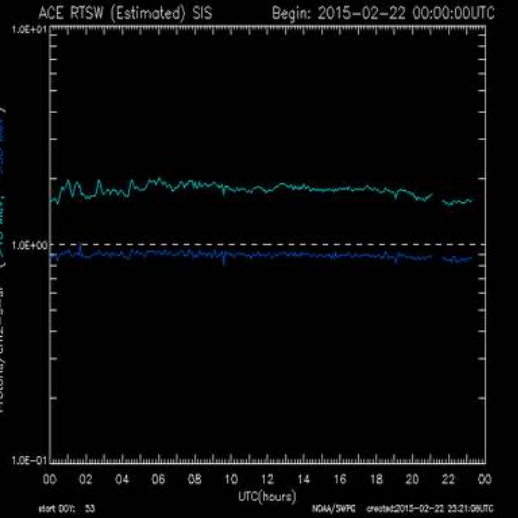
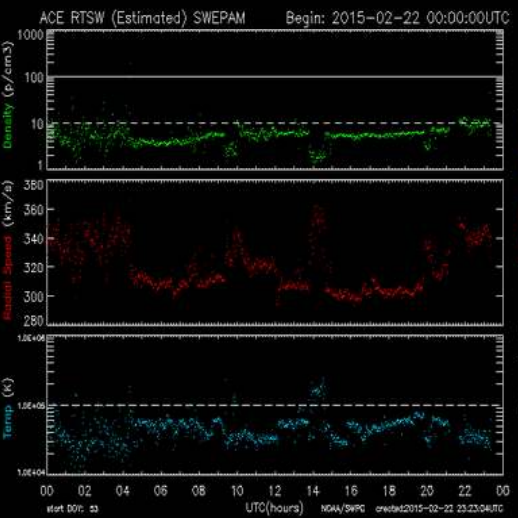
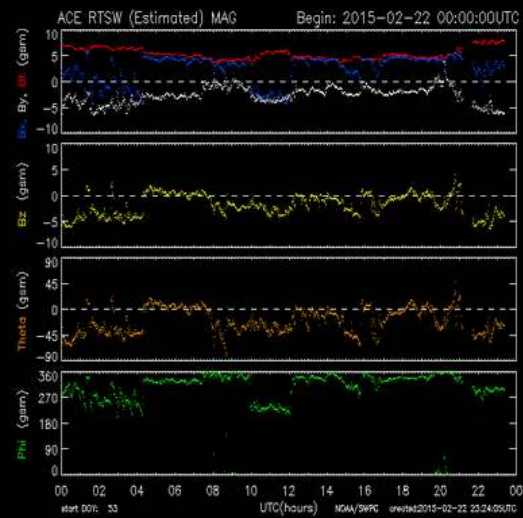
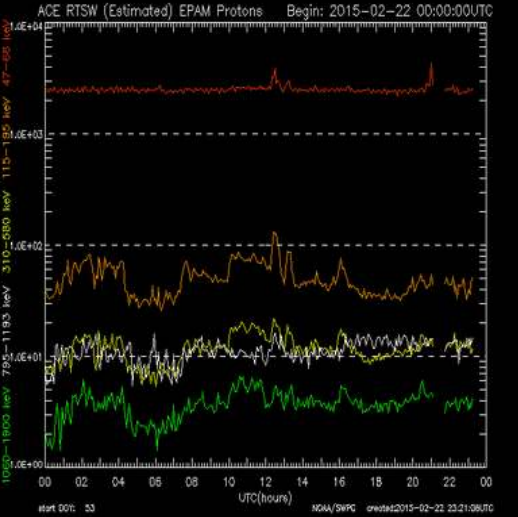
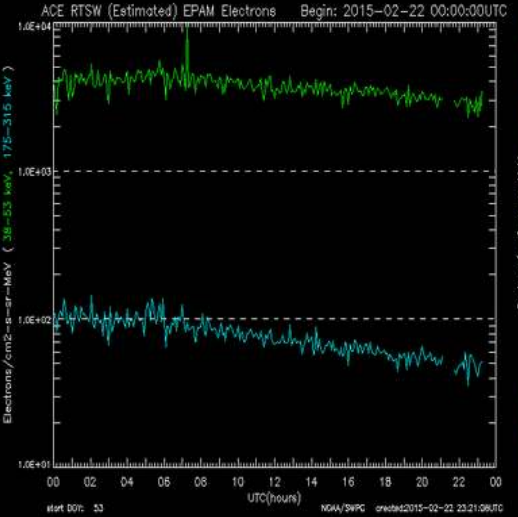
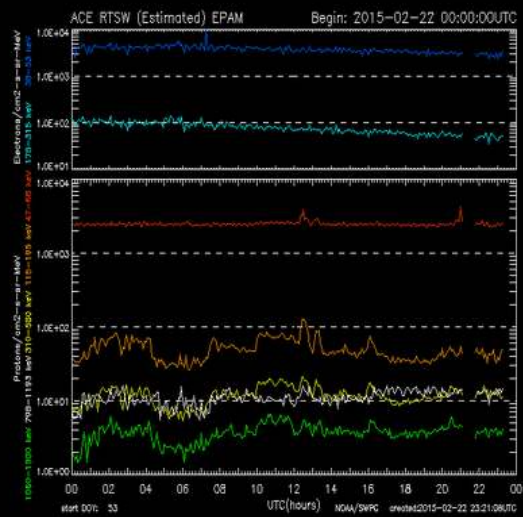
Sun, 22 Feb 2015 23:23:58 GMT Sun Feb 22 2015 16:23:58 GMT-0700 (US Mountain Standard Time)
 Sun, 22 Feb 2015 23:23:52 GMT Sun Feb 22 2015 16:23:52 GMT-0700 (US Mountain Standard Time)



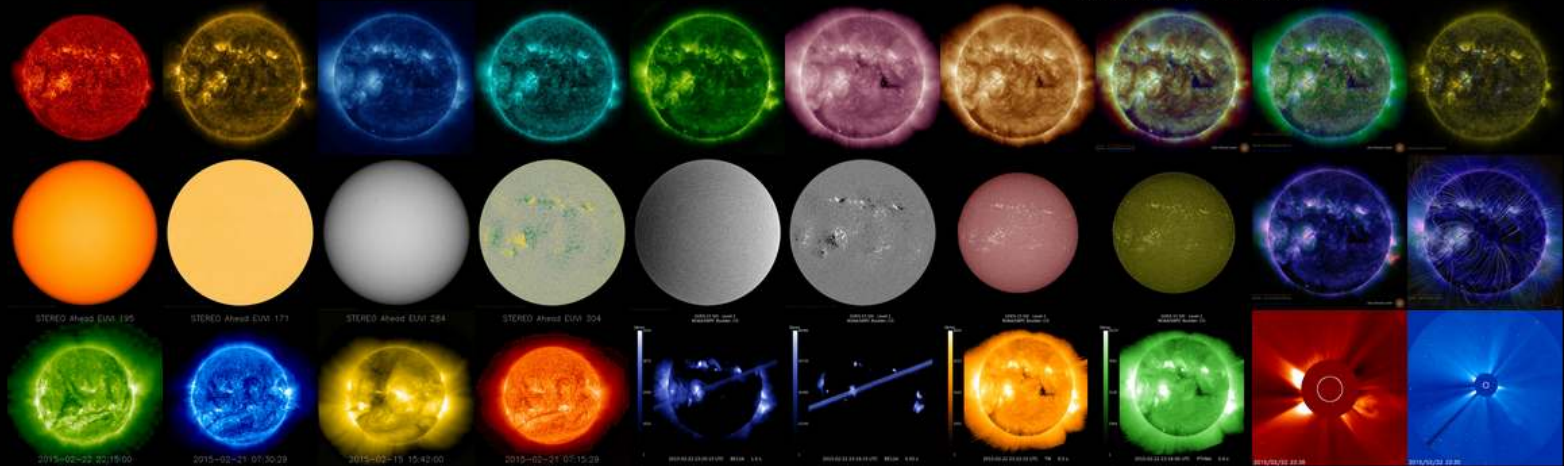
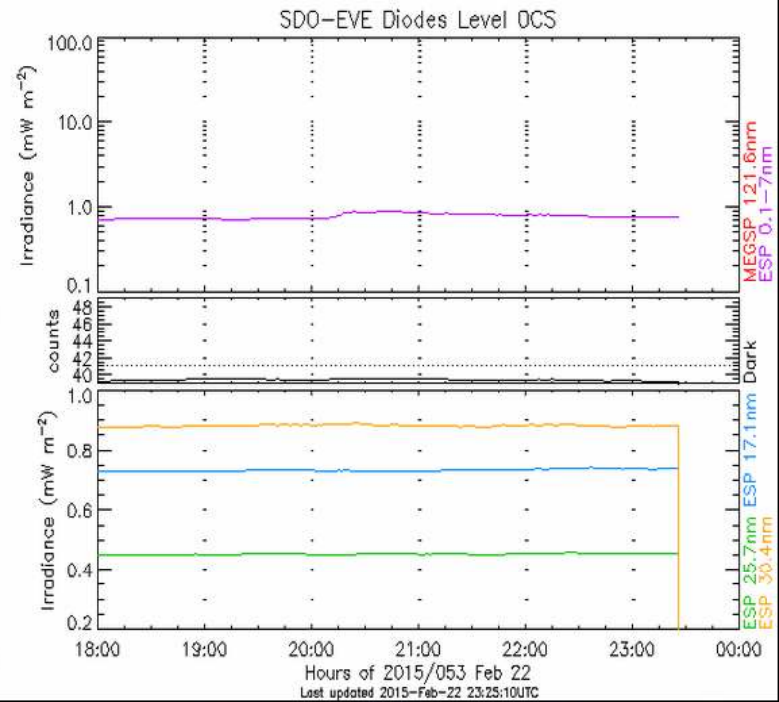
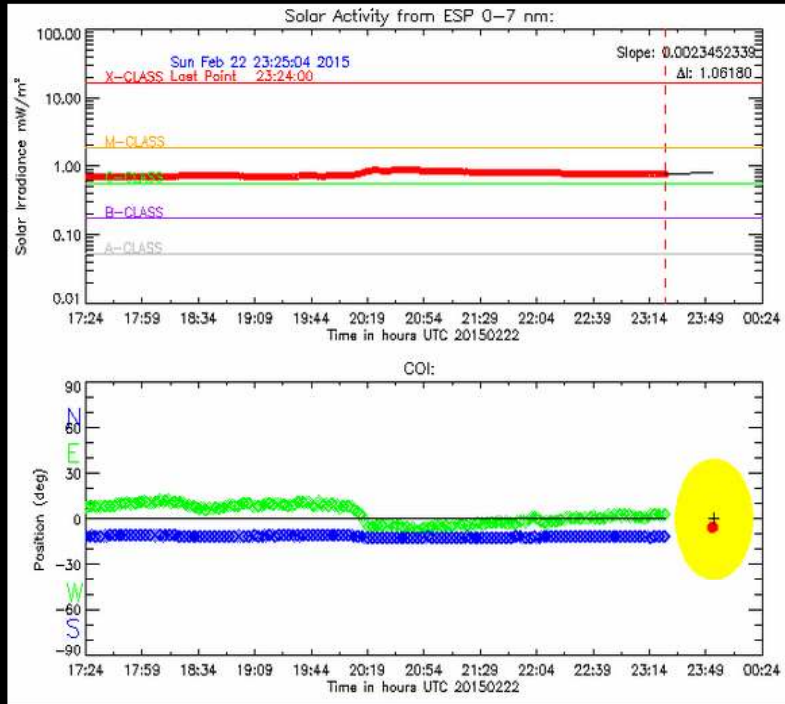
Sun, 22 Feb 2015 23:24:35 GMT Sun Feb 22 2015 16:24:35 GMT-0700 (US Mountain Standard Time)
Sun, 22 Feb 2015 23:24:25 GMT Sun Feb 22 2015 16:24:25 GMT-0700 (US Mountain Standard Time)

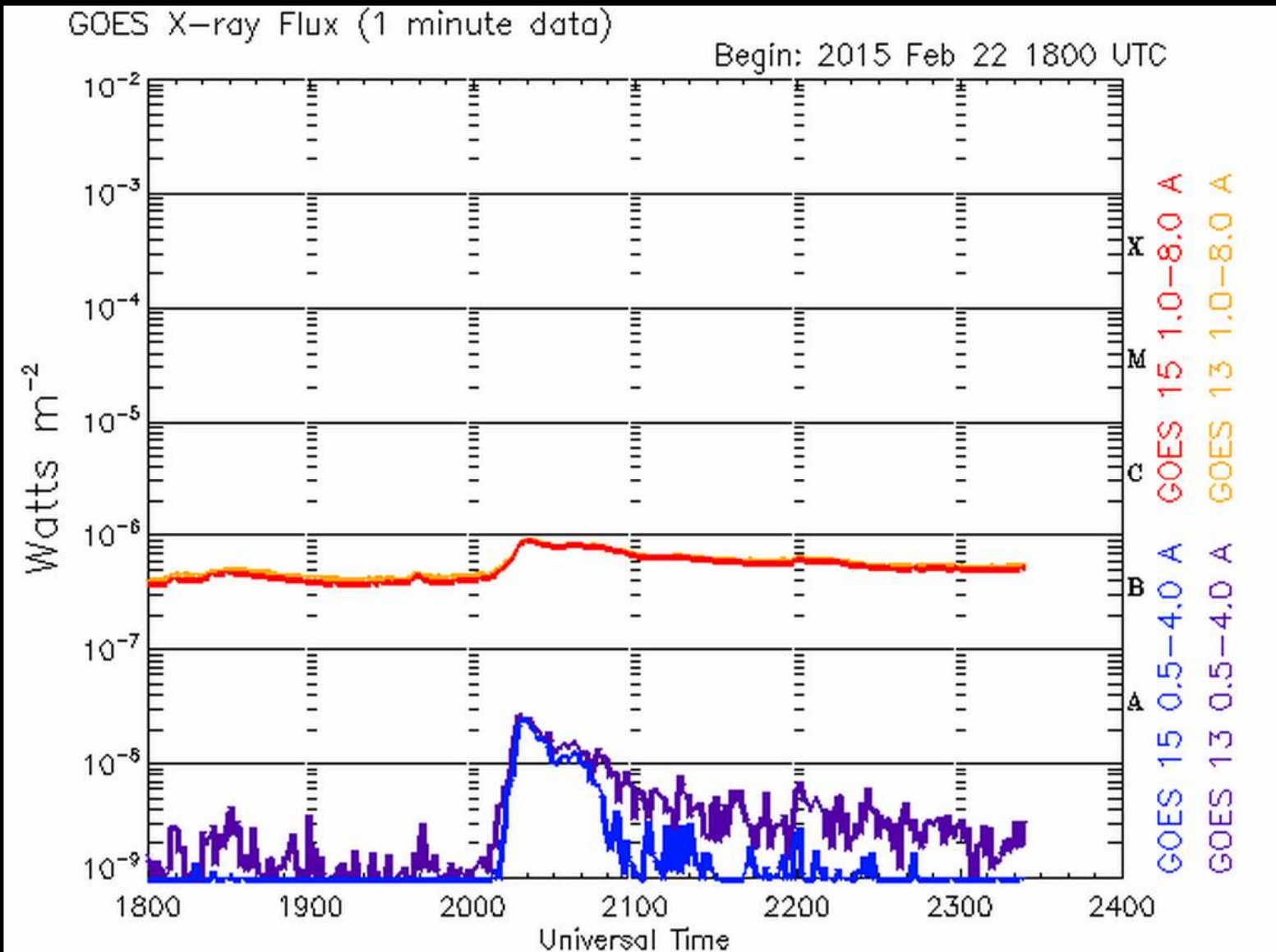


Sun, 22 Feb 2015 23:25:05 GMT Sun Feb 22 2015 16:25:05 GMT-0700 (US Mountain Standard Time)
Sun, 22 Feb 2015 23:24:57 GMT Sun Feb 22 2015 16:24:57 GMT-0700 (US Mountain Standard Time)



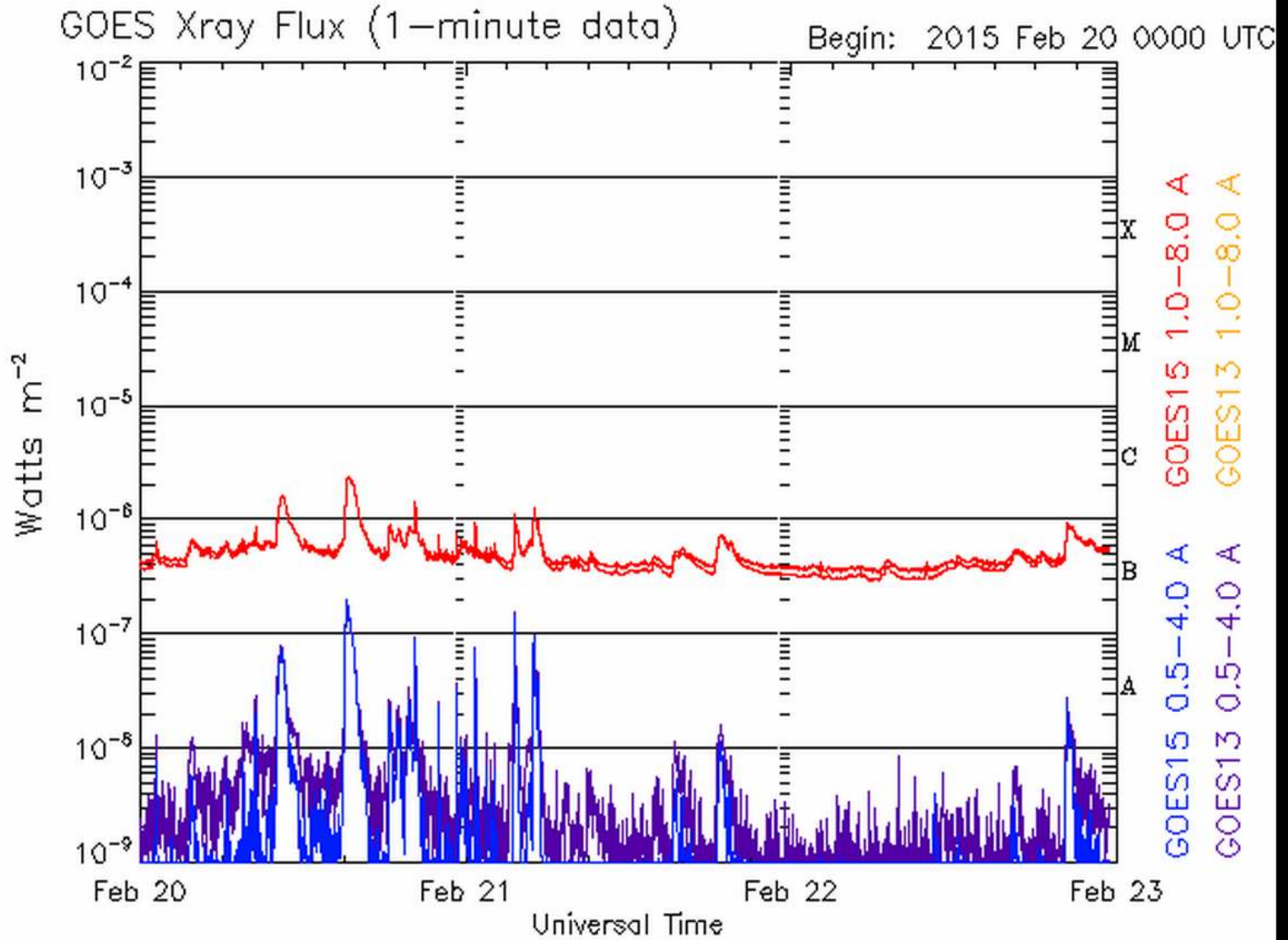
Sun, 22 Feb 2015 23:25:51 GMT Sun Feb 22 2015 16:25:51 GMT-0700 (US Mountain Standard Time)
 Sun, 22 Feb 2015 23:25:45 GMT Sun Feb 22 2015 16:25:45 GMT-0700 (US Mountain Standard Time)

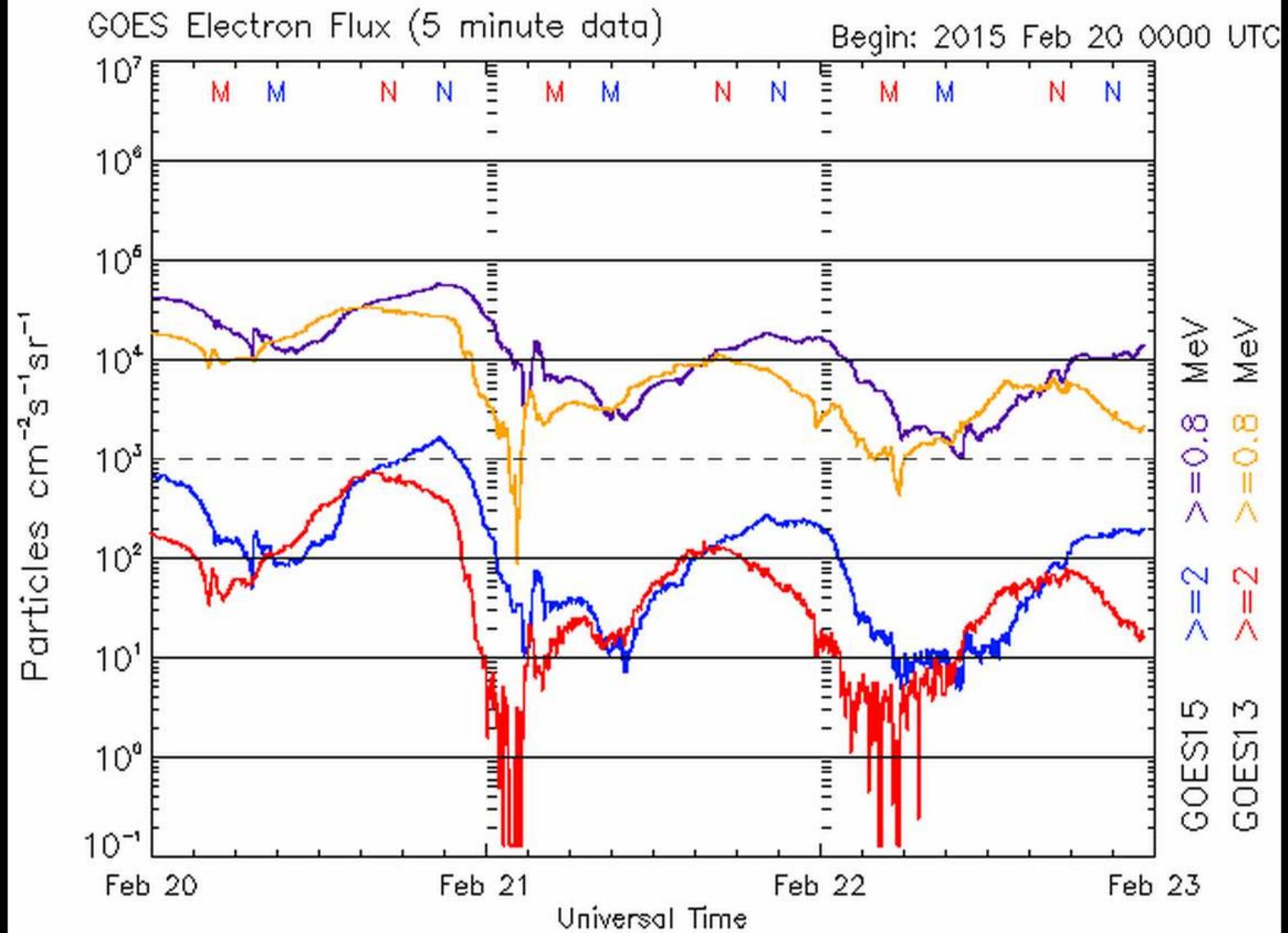




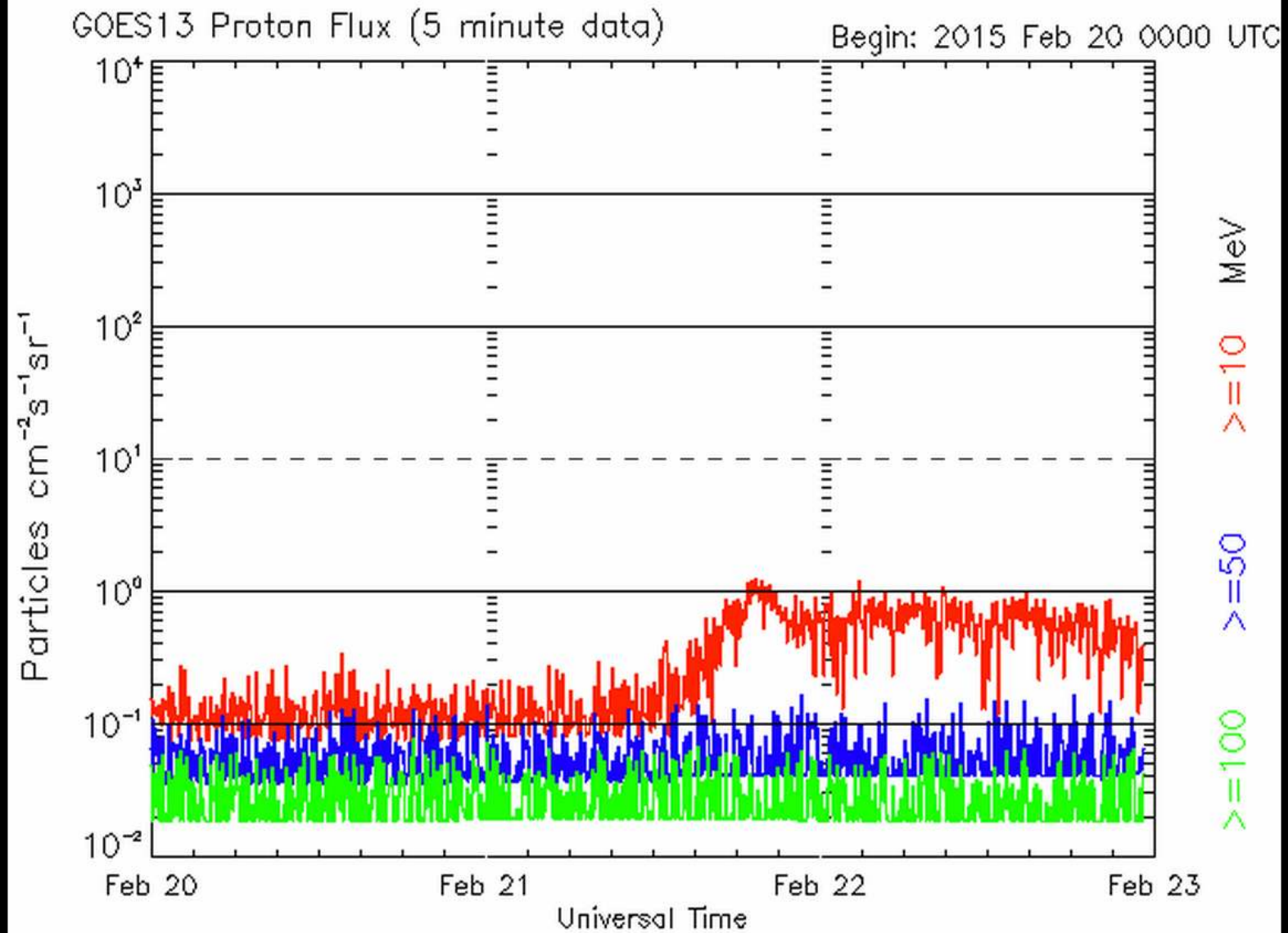
Updated 2015 Feb 22 2325 UTC

NOAA/SWPC Boulder, CO USA





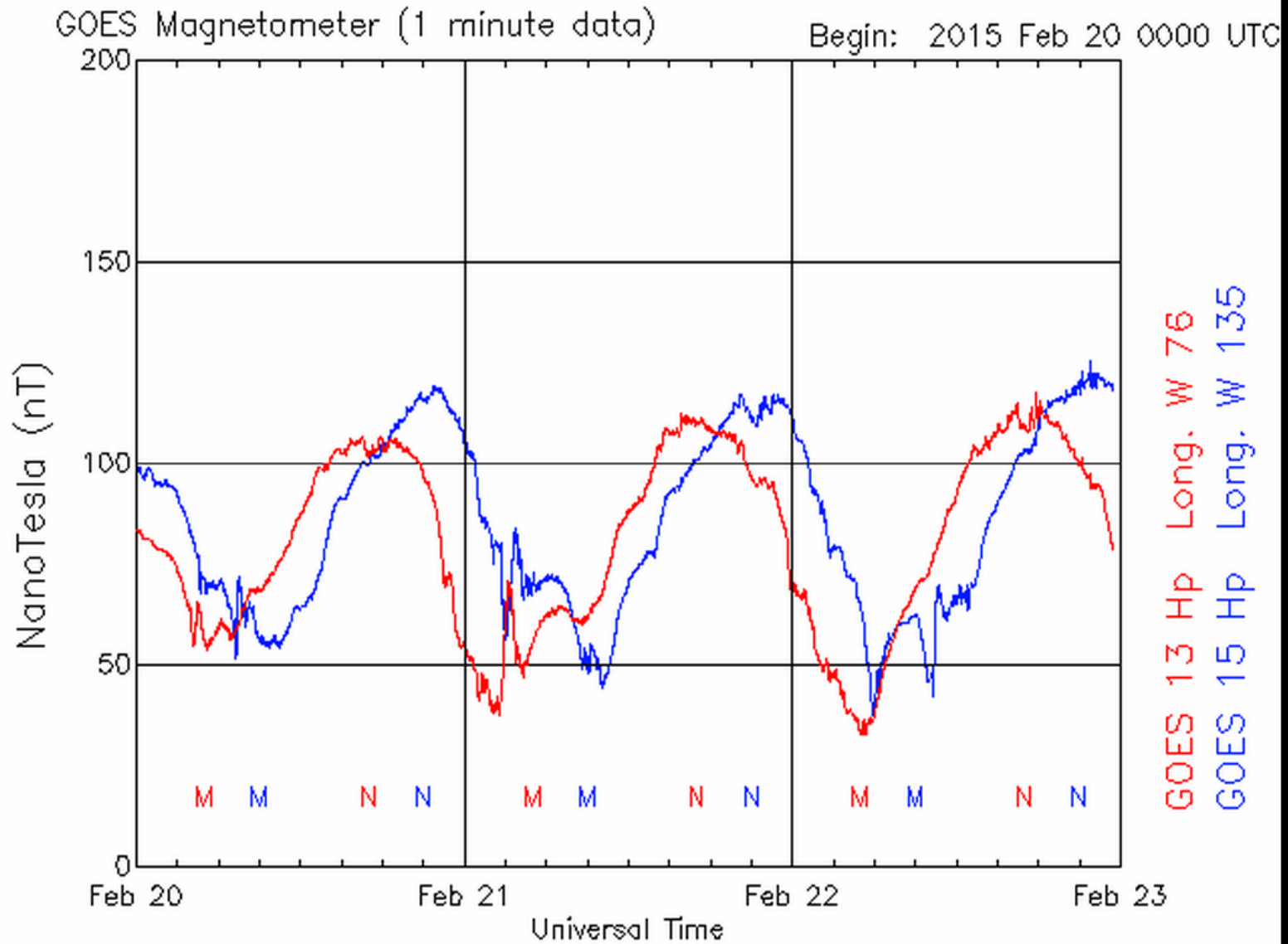
Sun, 22 Feb 2015 23:27:55 GMT Sun Feb 22 2015 16:27:55 GMT-0700 (US Mountain Standard Time)
Sun, 22 Feb 2015 23:27:49 GMT Sun Feb 22 2015 16:27:49 GMT-0700 (US Mountain Standard Time)



Updated 2015 Feb 22 23:26:03 UTC

NOAA/SWPC Boulder, CO USA

Sun, 22 Feb 2015 23:28:31 GMT Sun Feb 22 2015 16:28:31 GMT-0700 (US Mountain Standard Time)
Sun, 22 Feb 2015 23:28:25 GMT Sun Feb 22 2015 16:28:25 GMT-0700 (US Mountain Standard Time)



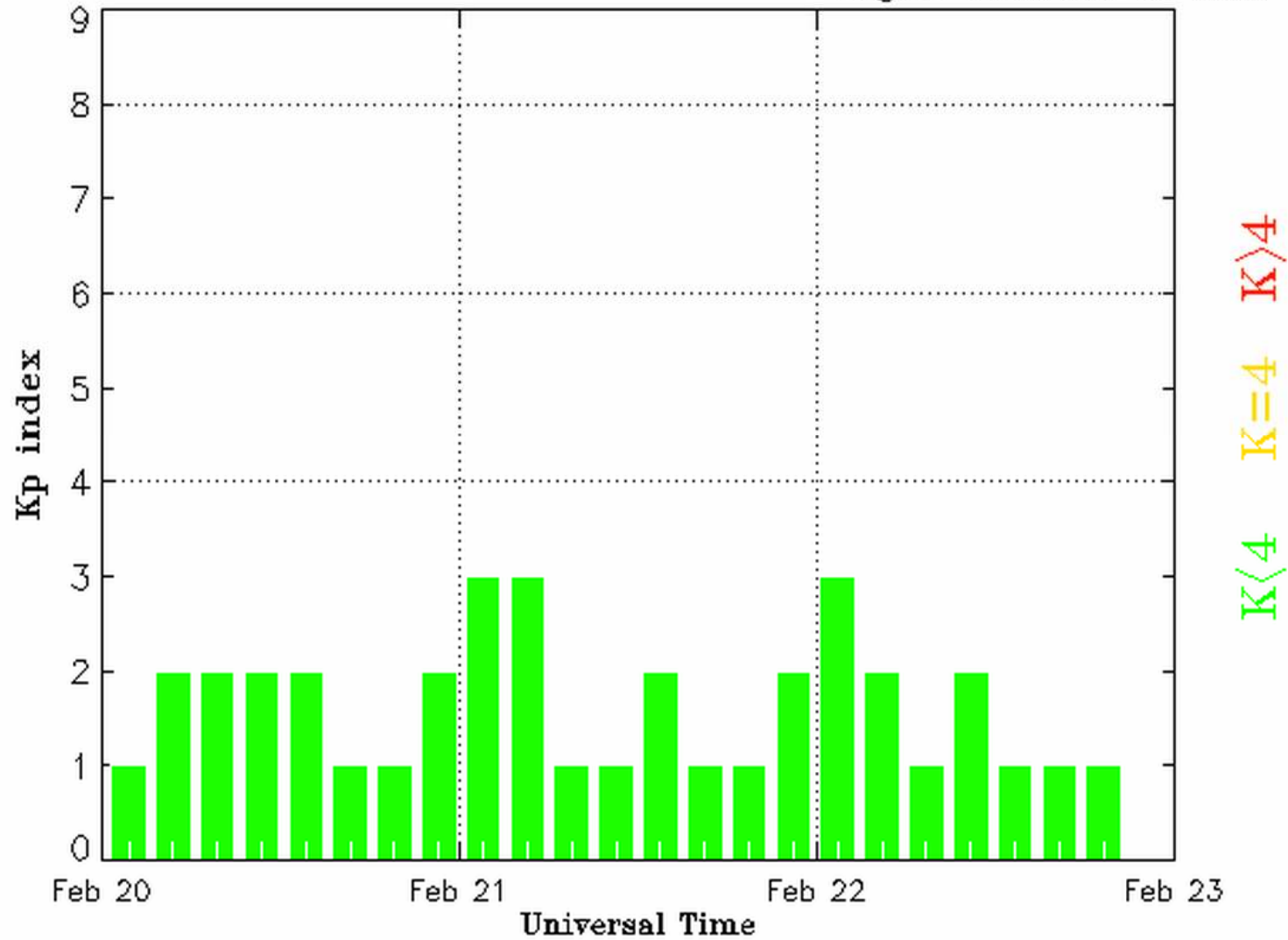
Updated 2015 Feb 22 23:28:02 UTC

NOAA/SWPC Boulder, CO USA

Sun, 22 Feb 2015 23:29:19 GMT Sun Feb 22 2015 16:29:19 GMT-0700 (US Mountain Standard Time)
Sun, 22 Feb 2015 23:29:12 GMT Sun Feb 22 2015 16:29:12 GMT-0700 (US Mountain Standard Time)

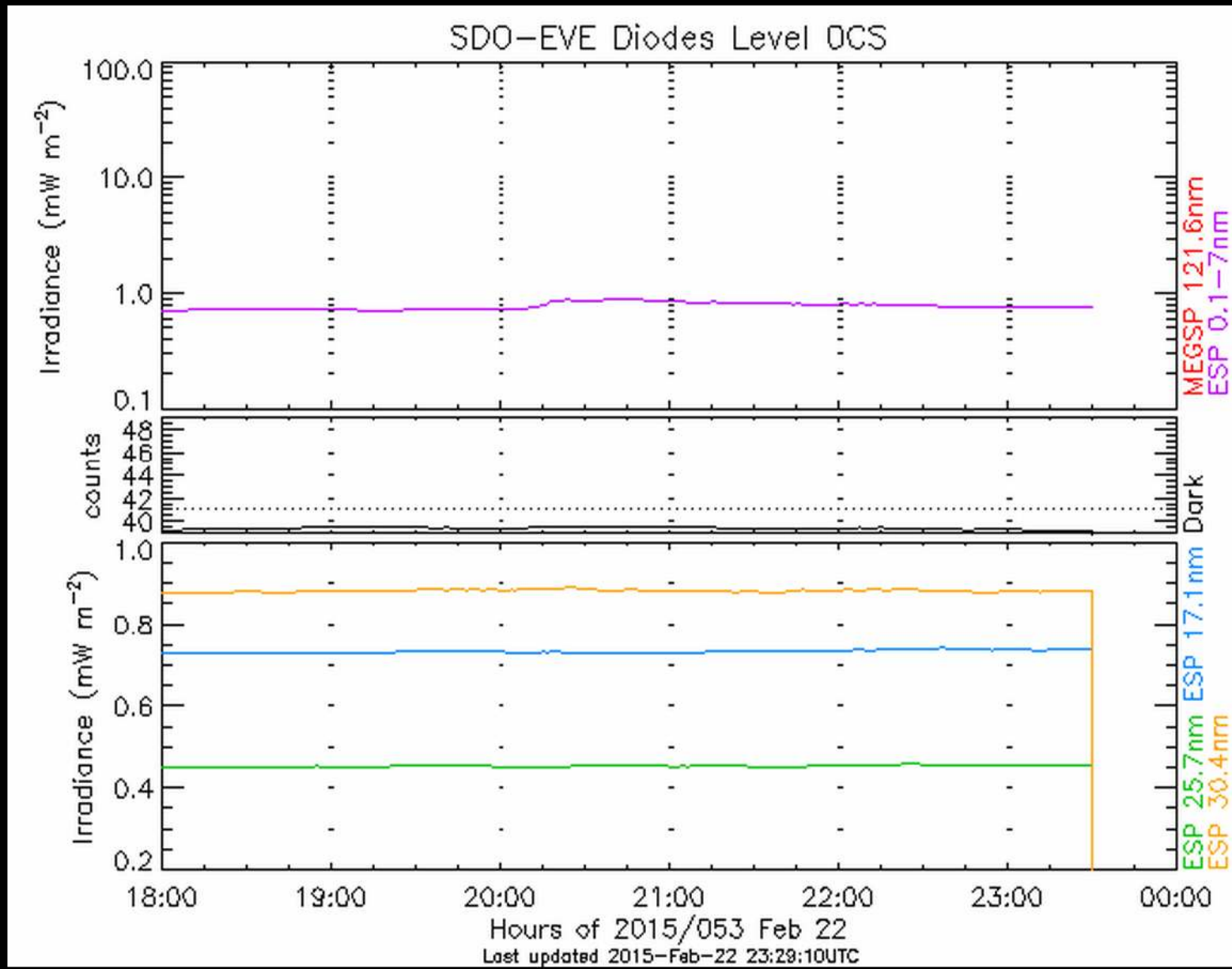
Estimated Planetary K index (3 hour data)

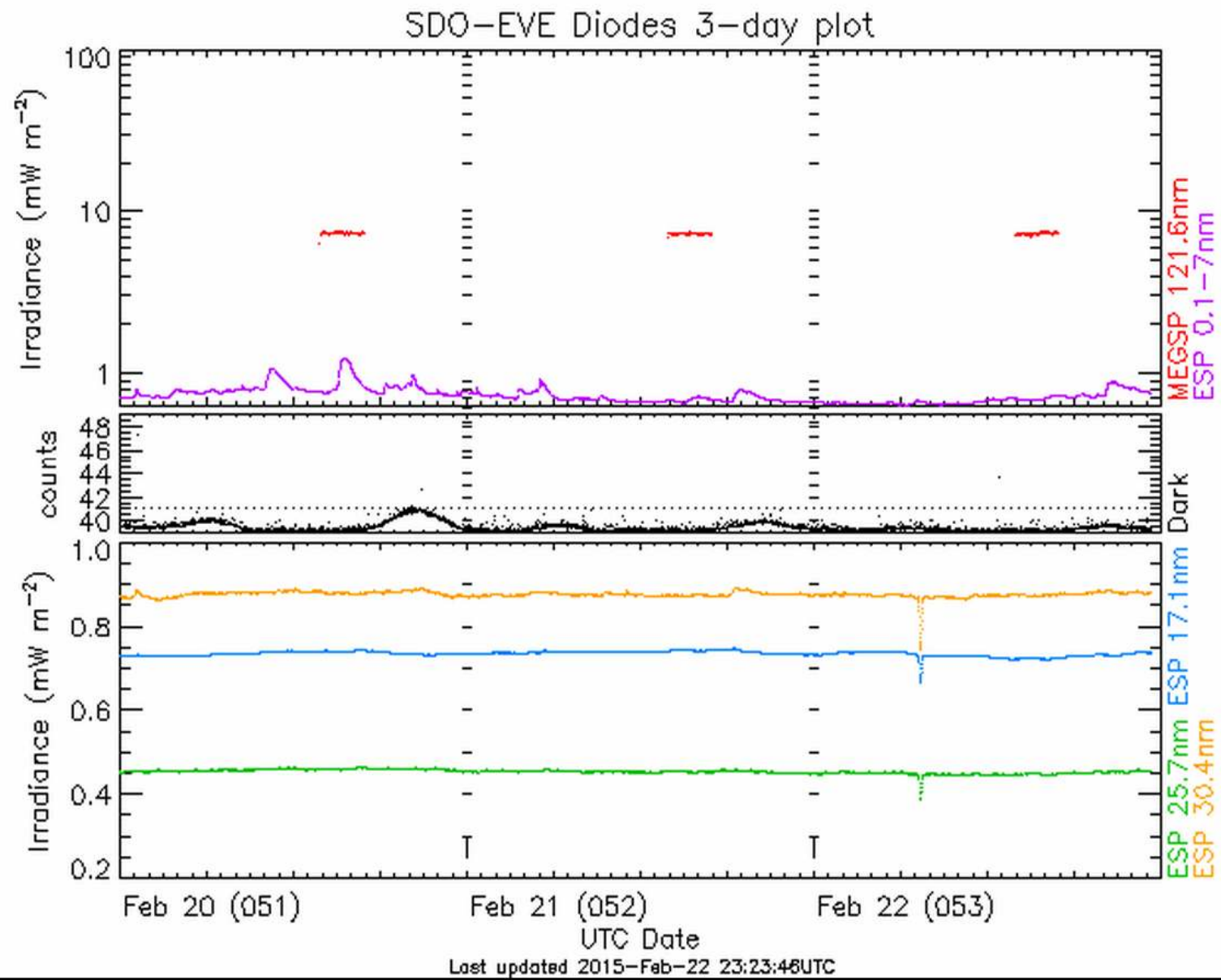
Begin: 2015 Feb 20 0000 UTC

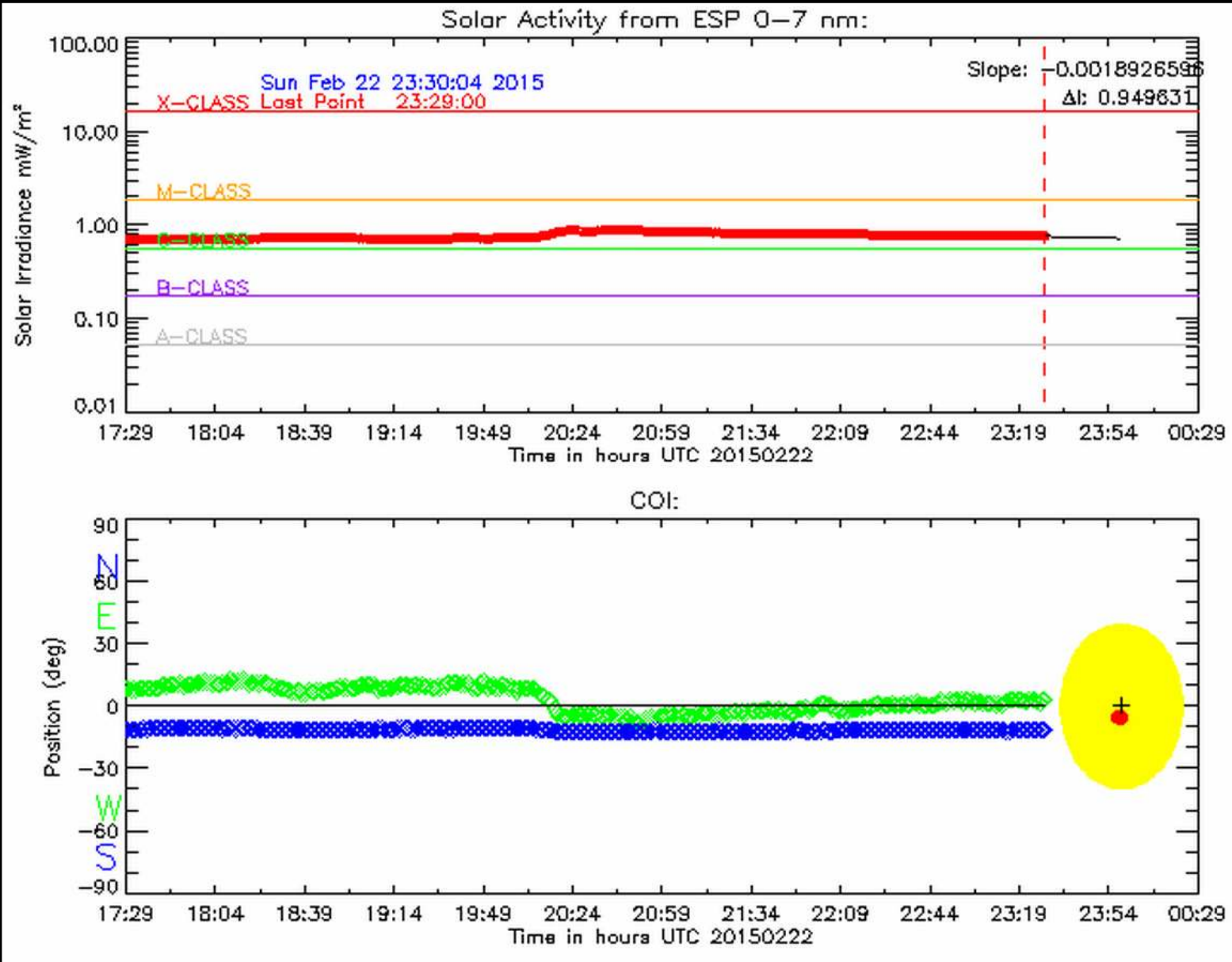


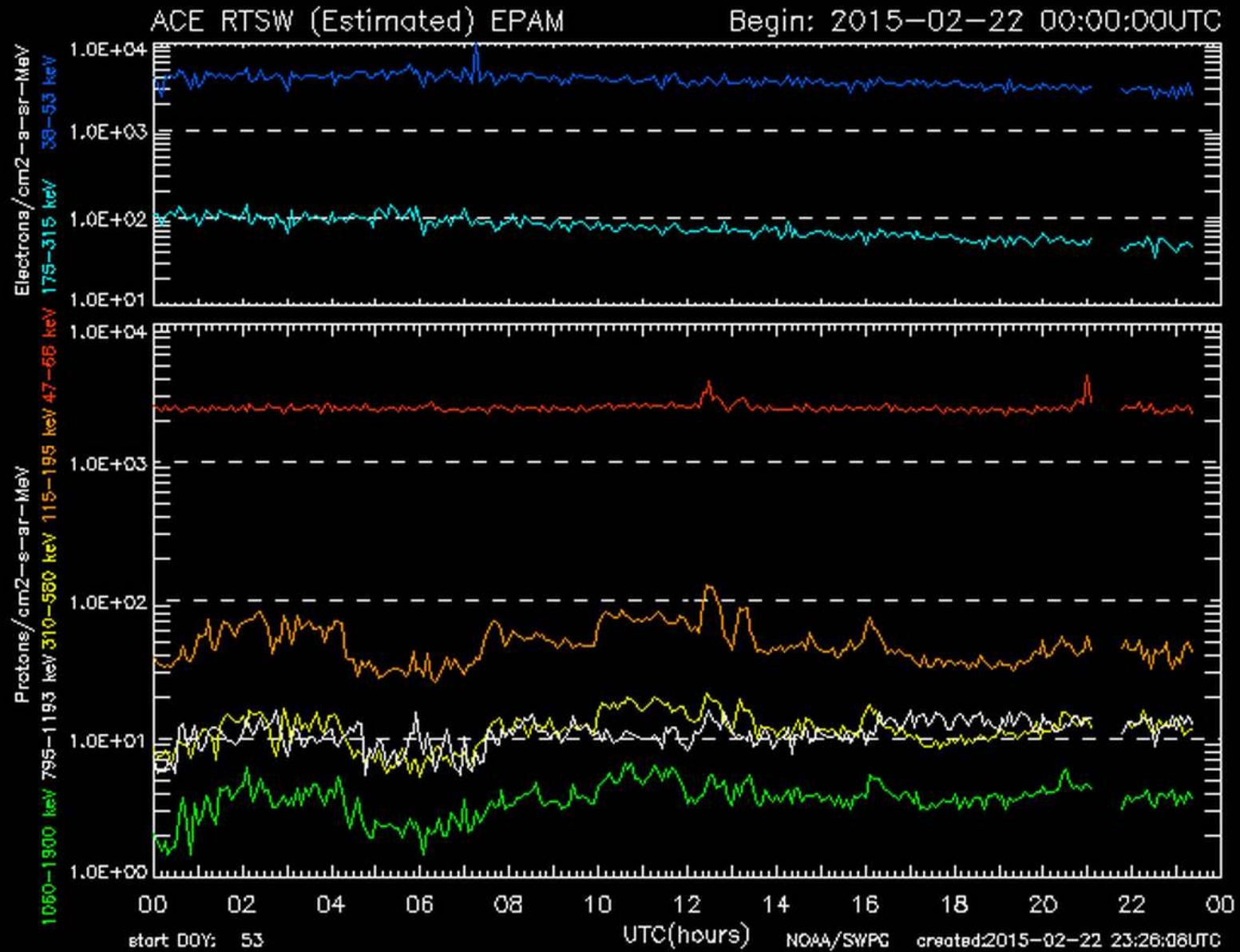
Updated 2015 Feb 22 23:25:21 UTC

NOAA/SWPC Boulder, CO USA

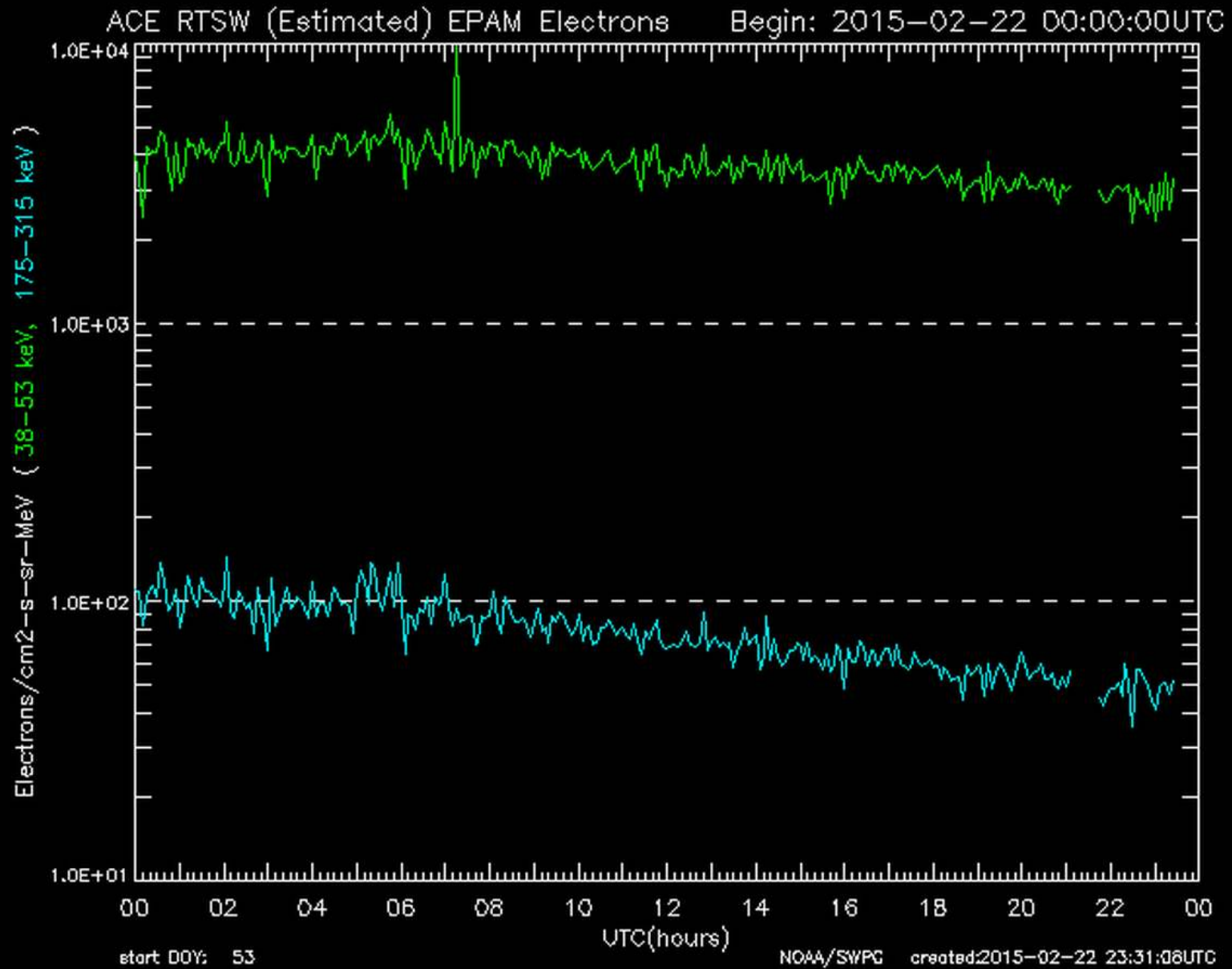


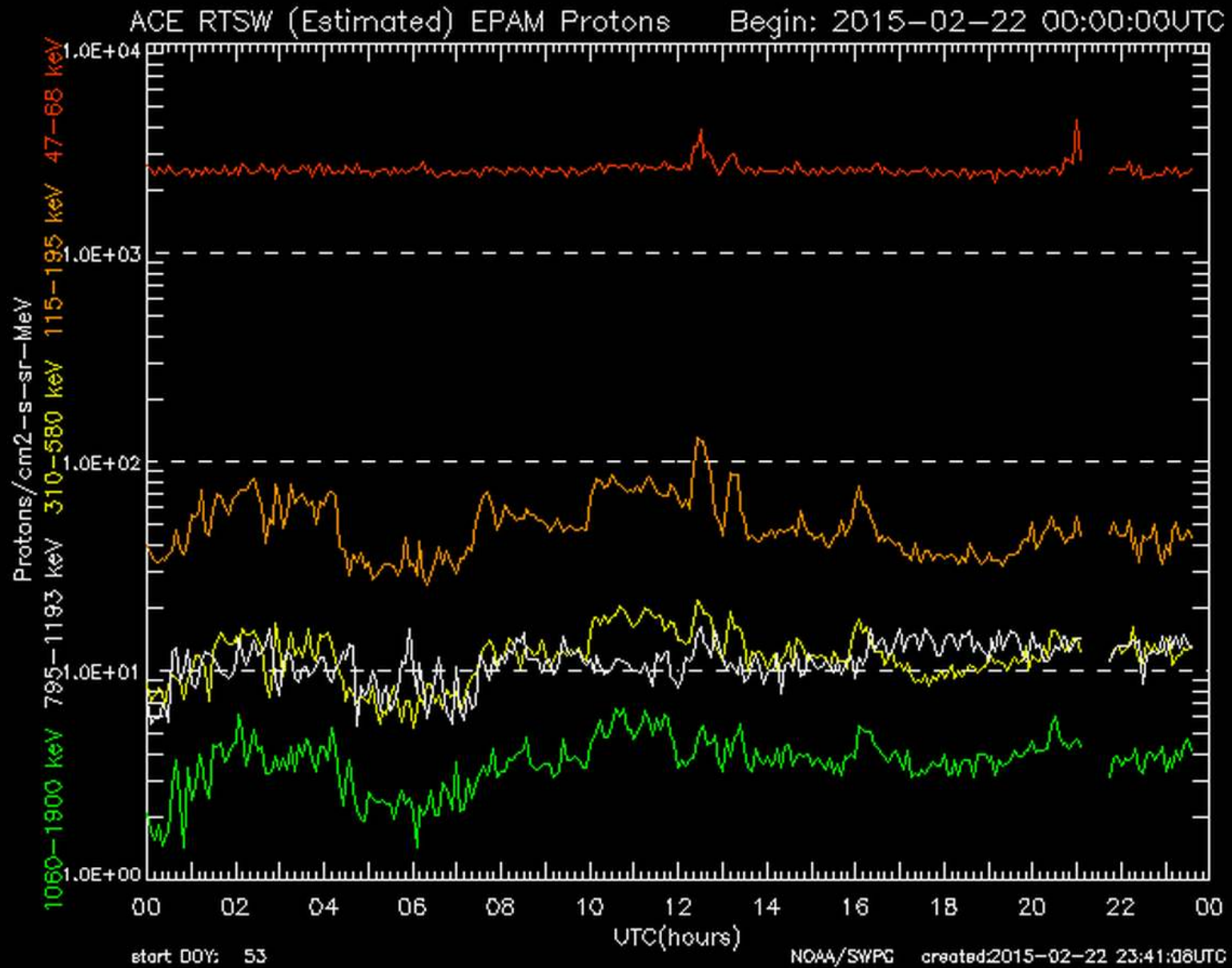




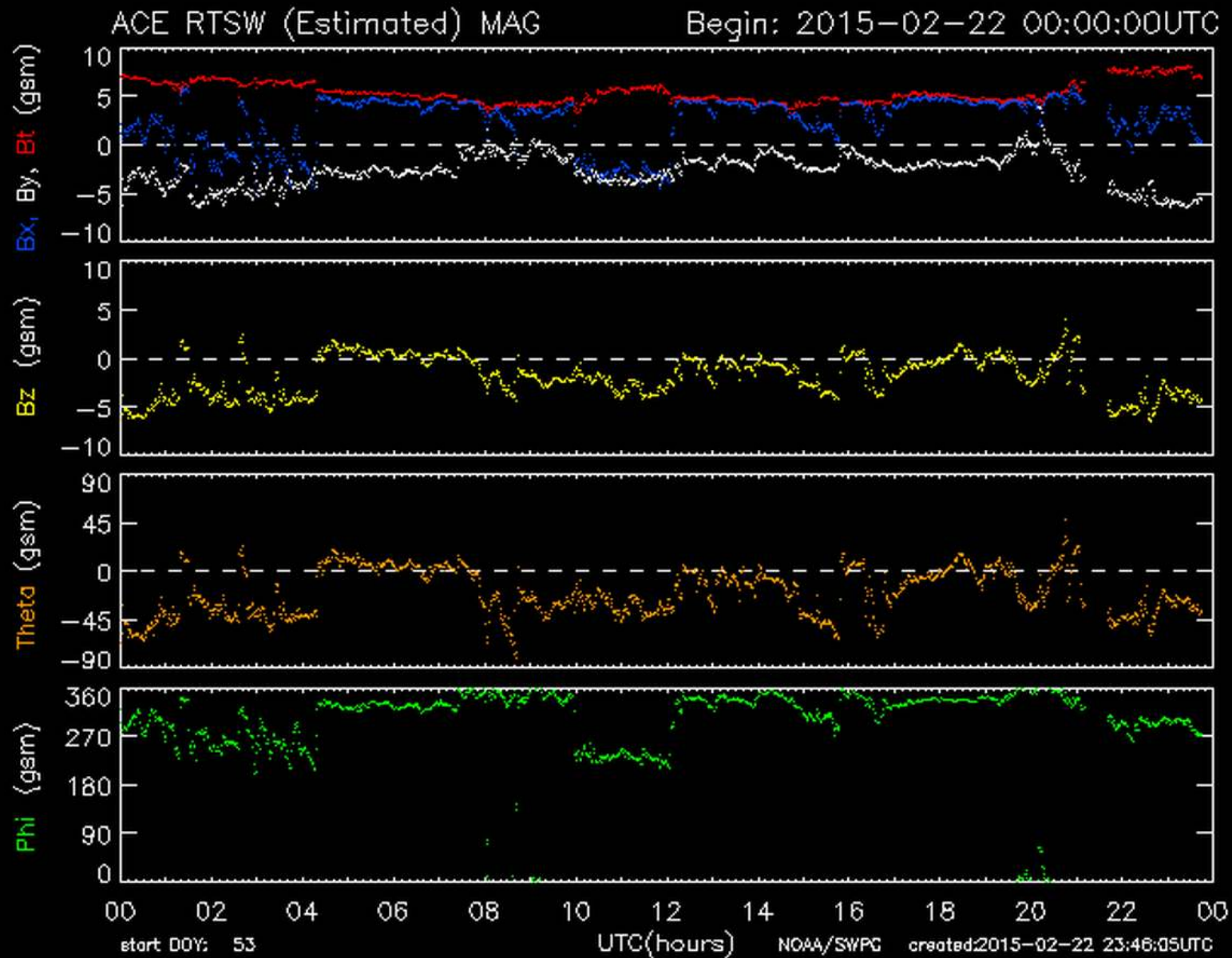


Sun, 22 Feb 2015 23:32:09 GMT Sun Feb 22 2015 16:32:09 GMT-0700 (US Mountain Standard Time)
Sun, 22 Feb 2015 23:32:02 GMT Sun Feb 22 2015 16:32:02 GMT-0700 (US Mountain Standard Time)

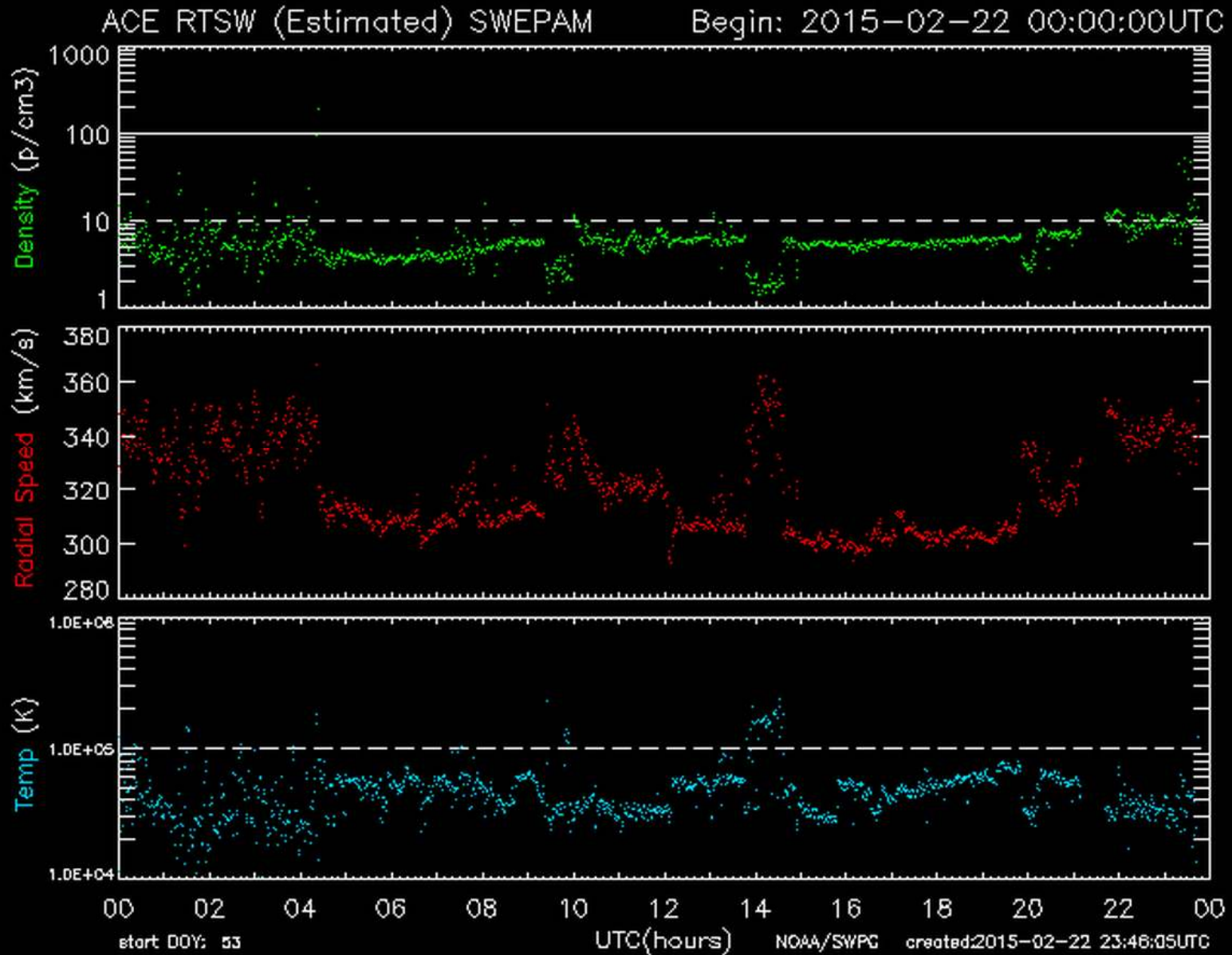




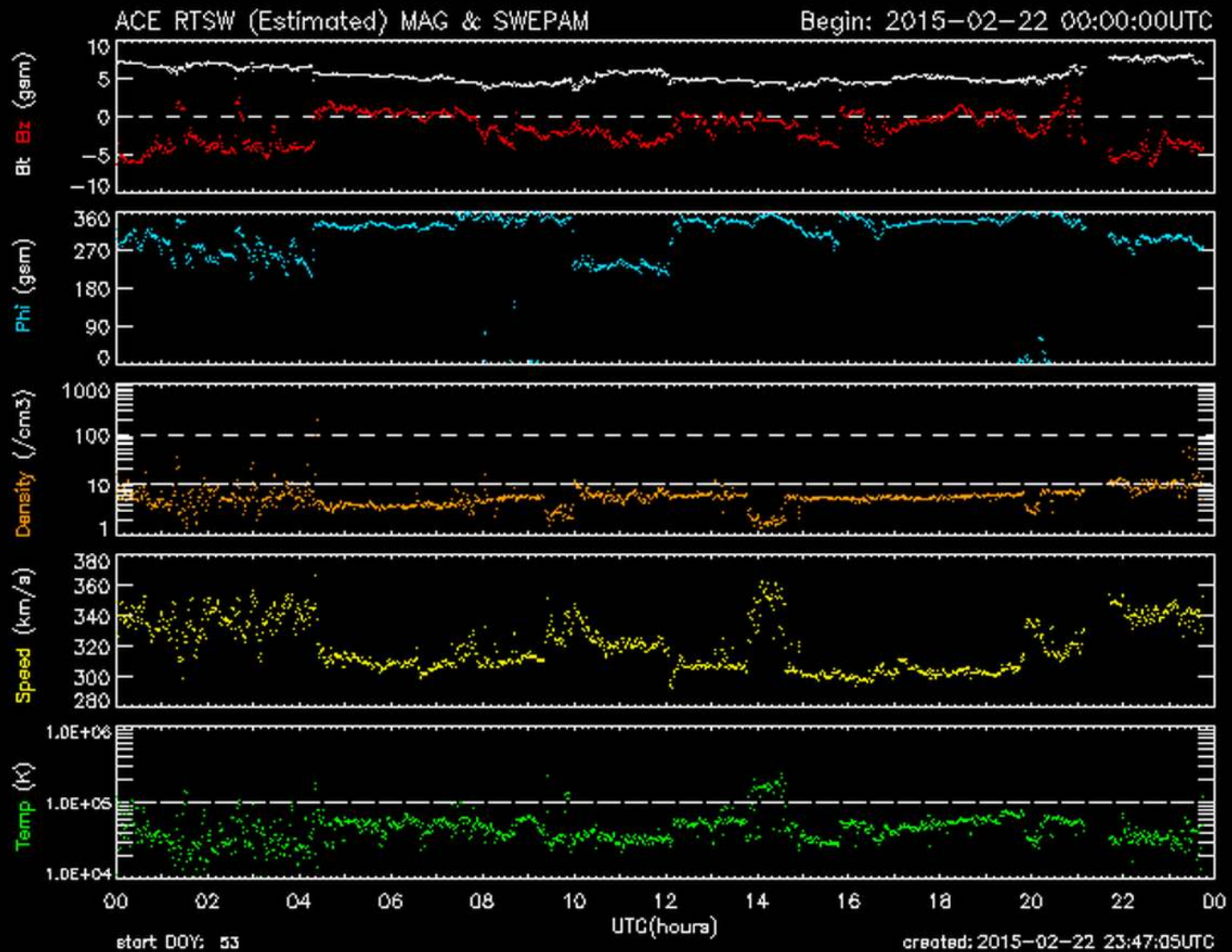
Sun, 22 Feb 2015 23:47:21 GMT Sun Feb 22 2015 16:47:21 GMT-0700 (US Mountain Standard Time)
Sun, 22 Feb 2015 23:47:14 GMT Sun Feb 22 2015 16:47:14 GMT-0700 (US Mountain Standard Time)



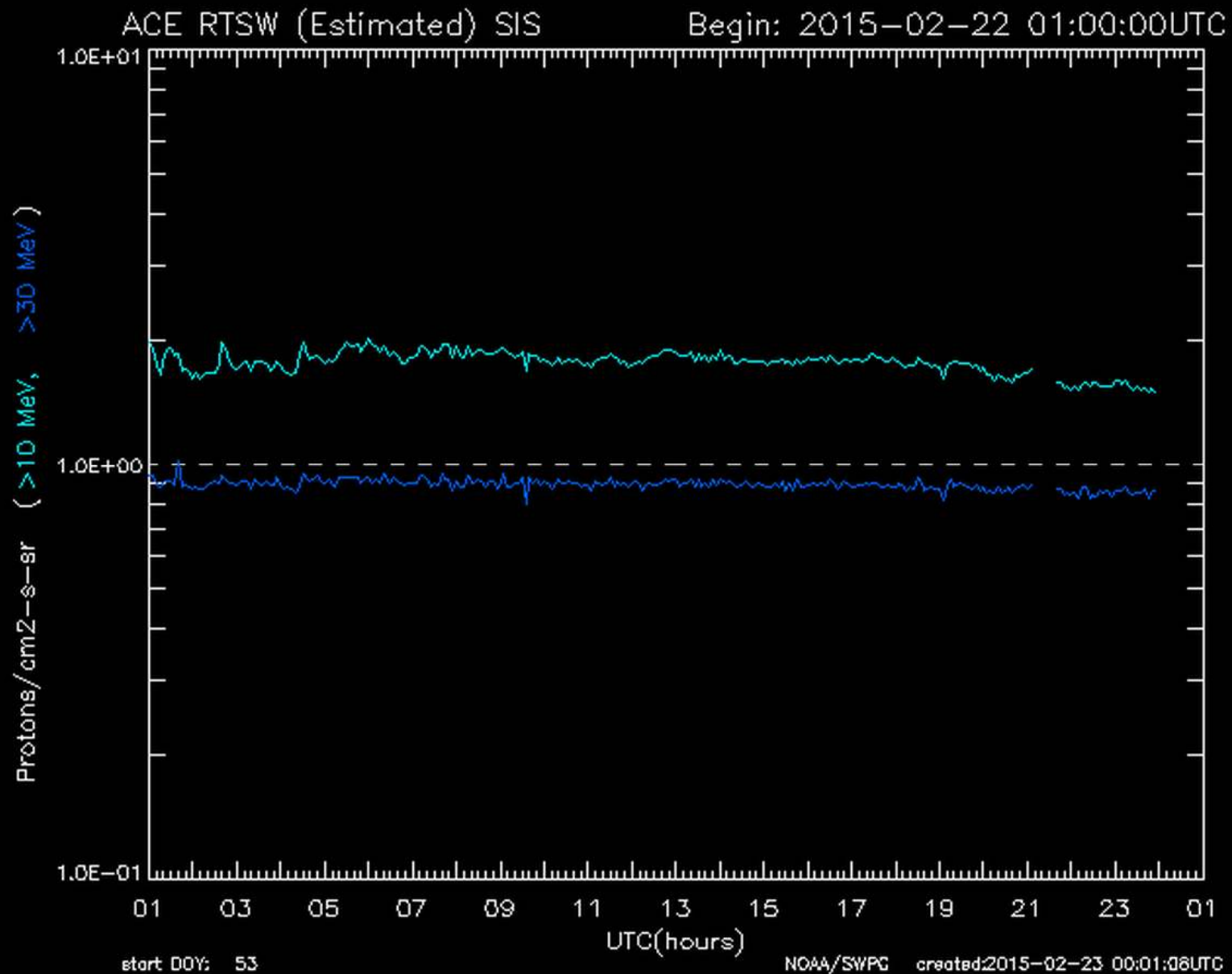
Sun, 22 Feb 2015 23:47:53 GMT Sun Feb 22 2015 16:47:53 GMT-0700 (US Mountain Standard Time)
Sun, 22 Feb 2015 23:47:46 GMT Sun Feb 22 2015 16:47:46 GMT-0700 (US Mountain Standard Time)



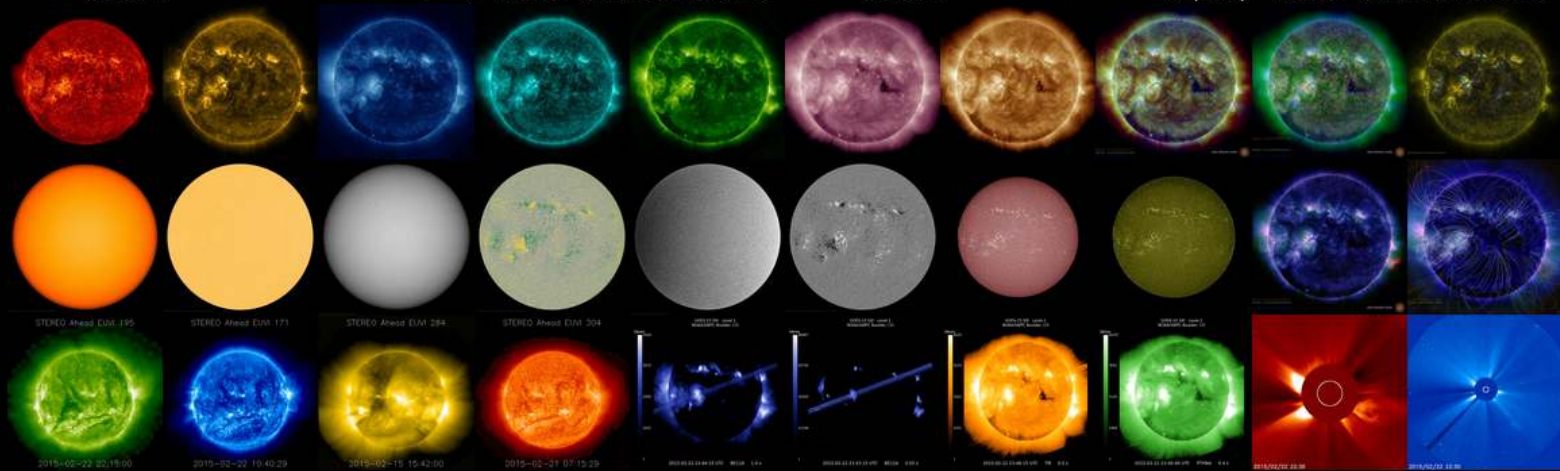
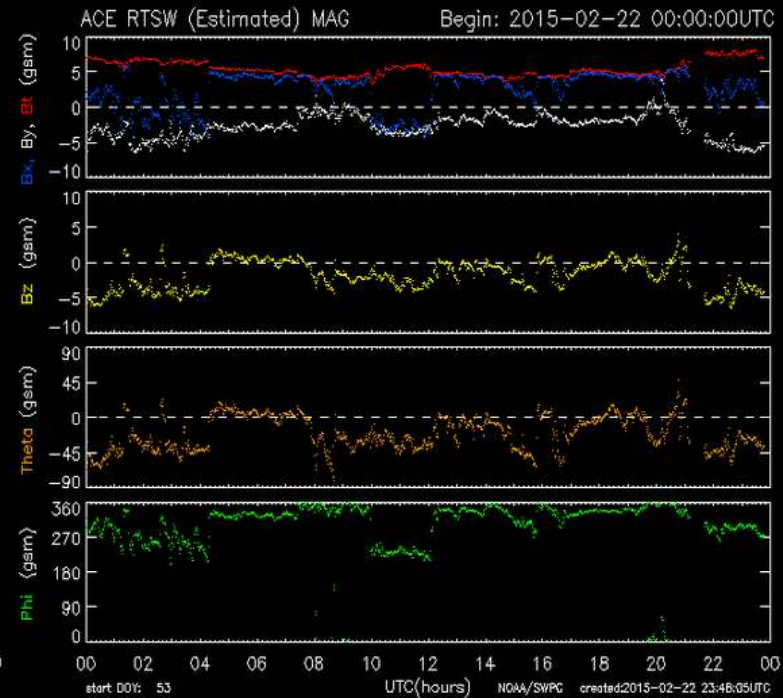
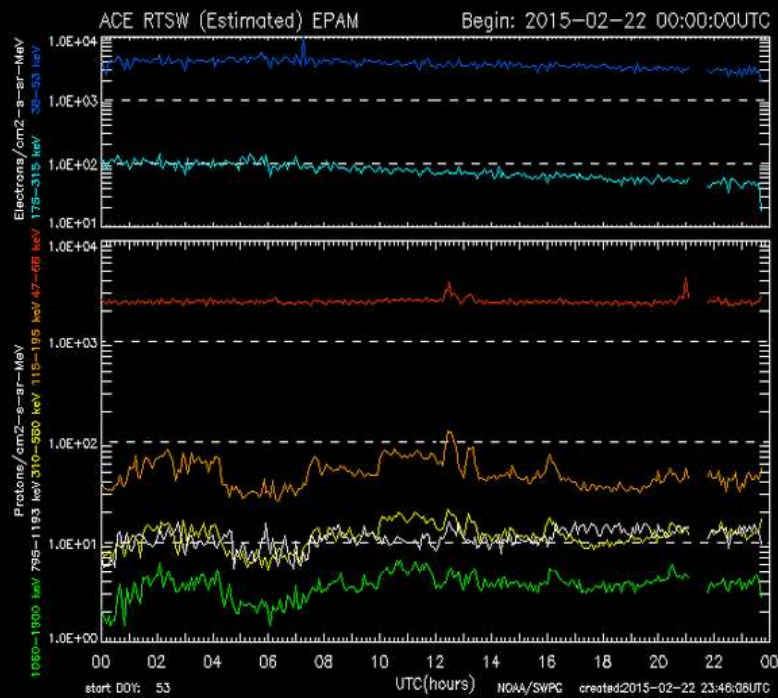
Sun, 22 Feb 2015 23:48:23 GMT Sun Feb 22 2015 16:48:23 GMT-0700 (US Mountain Standard Time)
Sun, 22 Feb 2015 23:48:17 GMT Sun Feb 22 2015 16:48:17 GMT-0700 (US Mountain Standard Time)



Mon, 23 Feb 2015 00:05:31 GMT Sun Feb 22 2015 17:05:31 GMT-0700 (US Mountain Standard Time)
Mon, 23 Feb 2015 00:05:23 GMT Sun Feb 22 2015 17:05:23 GMT-0700 (US Mountain Standard Time)



Sun, 22 Feb 2015 23:49:27 GMT Sun Feb 22 2015 16:49:27 GMT-0700 (US Mountain Standard Time)
Sun, 22 Feb 2015 23:49:18 GMT Sun Feb 22 2015 16:49:18 GMT-0700 (US Mountain Standard Time)



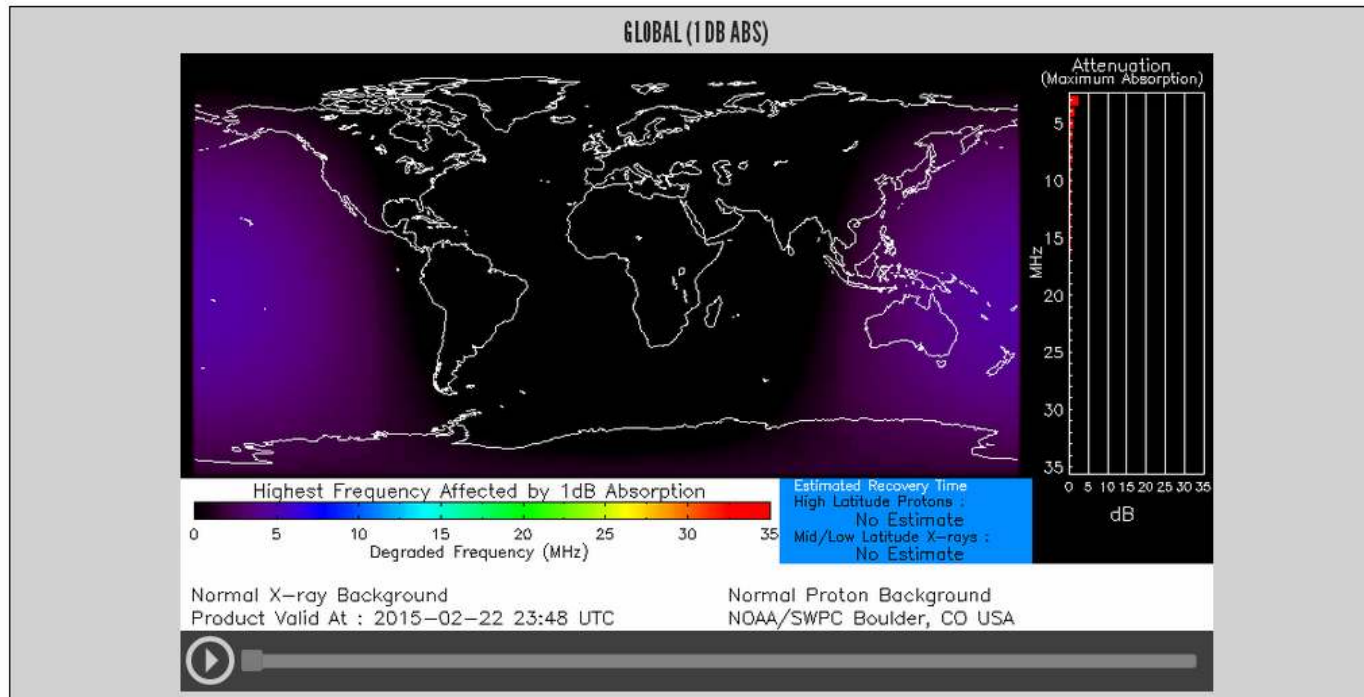


CURRENT SPACE WEATHER CONDITIONS on NOAA Scales



D REGION ABSORPTION PREDICTIONS (D-RAP)

Global (1 dB ABS) Polar (10 dB ABS) 5 MHz 10 MHz 15 MHz 20 MHz 25 MHz 30 MHz



Usage Impacts Details History Data

The D-Region Absorption Product addresses the operational impact of the solar X-ray flux and SEP events on HF radio communication. Long-range communications using high frequency (HF) radio waves (3 - 30 MHz) depend on reflection of the signals in the ionosphere. Radio waves are typically reflected near the peak of the F2 layer (~300 km altitude), but along the path to the F2 peak and back the radio wave signal suffers attenuation due to absorption by the intervening ionosphere.

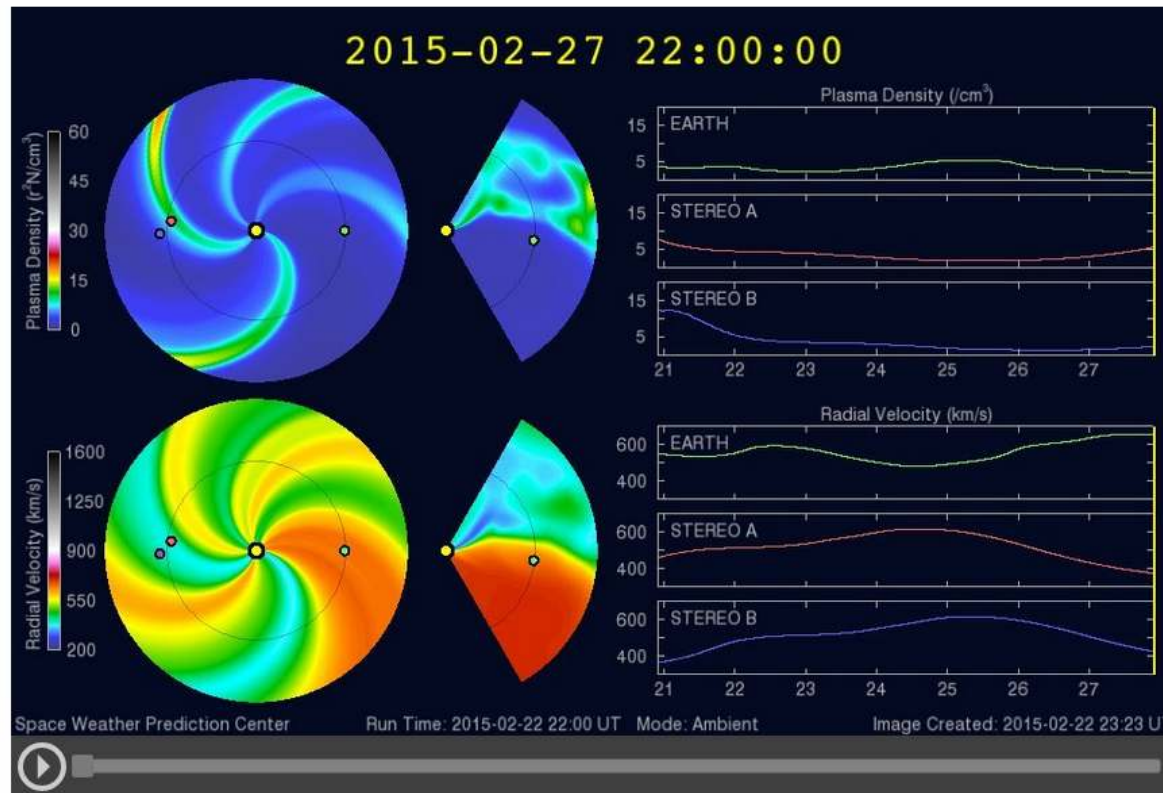
The D-Region Absorption Prediction model is used as guidance to understand the HF radio degradation and blackouts this can cause.



CURRENT SPACE WEATHER CONDITIONS on NOAA Scales



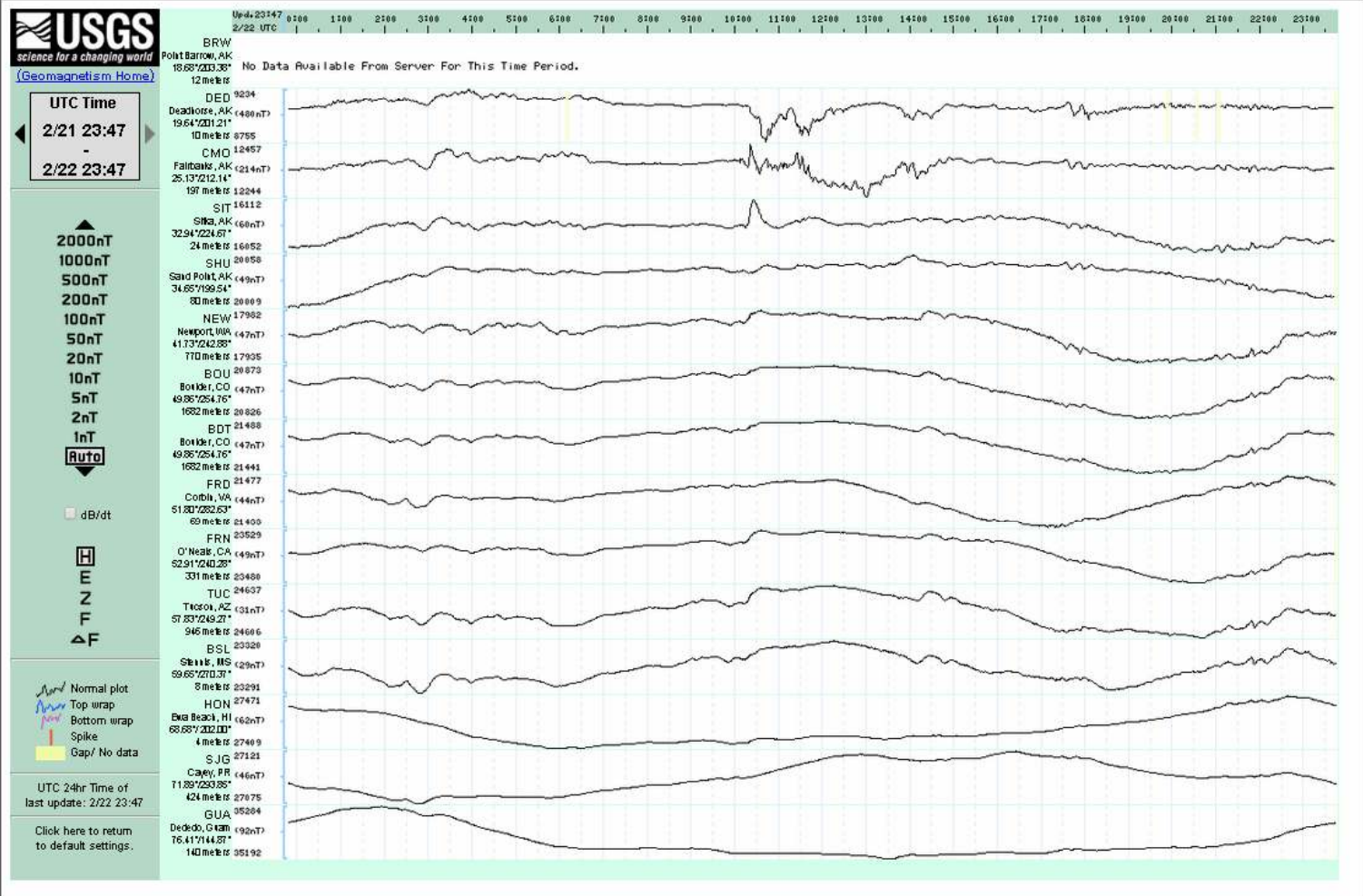
WSA-ENLIL SOLAR WIND PREDICTION



[Usage](#) [Impacts](#) [Details](#) [History](#) [Data](#)

WSA-Enlil is a large-scale, physics-based prediction model of the heliosphere, used by the Space Weather Forecast Office to provide 1-4 day advance warning of solar wind structures and Earth-directed coronal mass ejections (CMEs) that cause geomagnetic storms. Solar disturbances have long been known to disrupt communications, wreak havoc with geomagnetic systems, and to pose dangers for satellite operations.

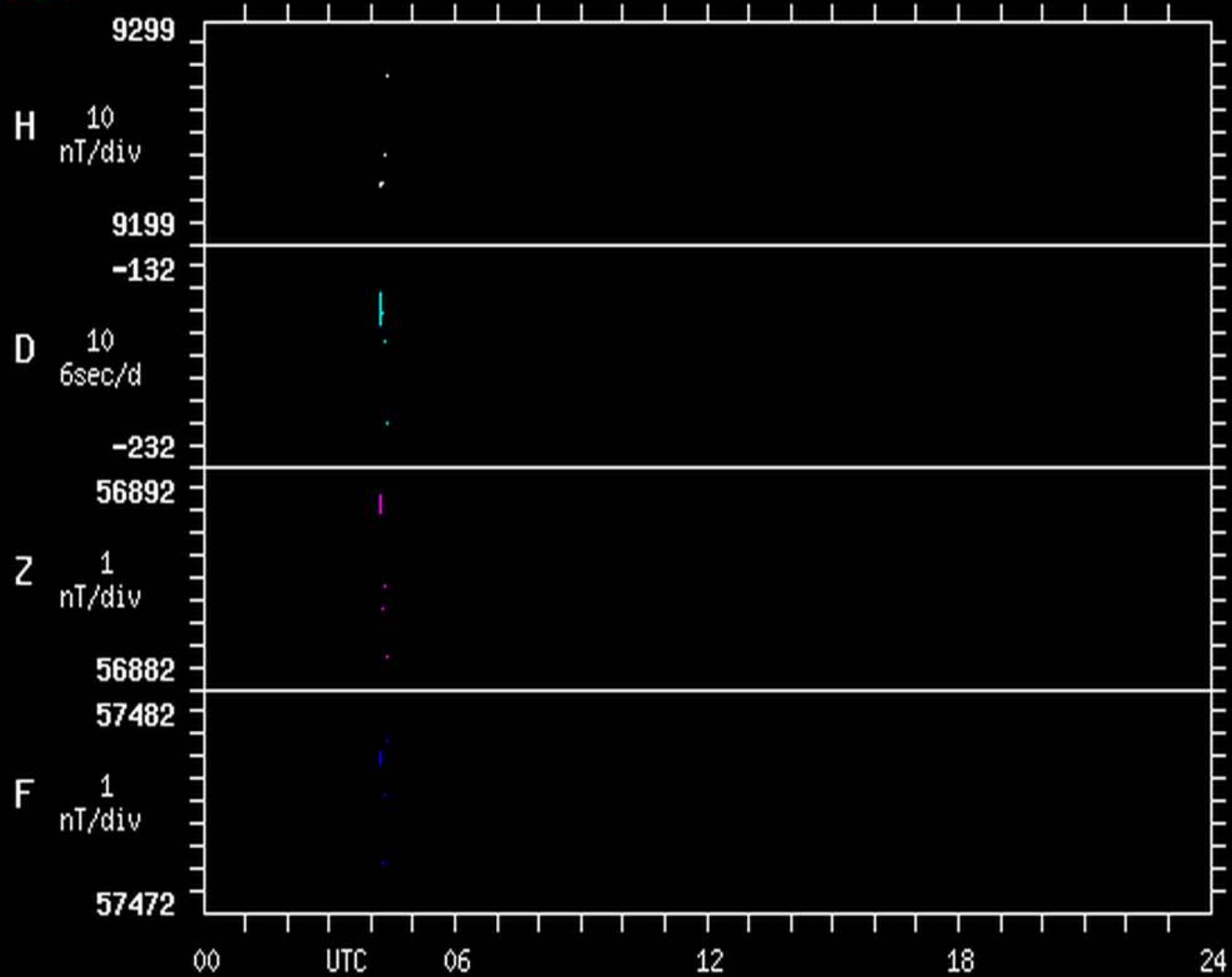




USGS Golden

BRW

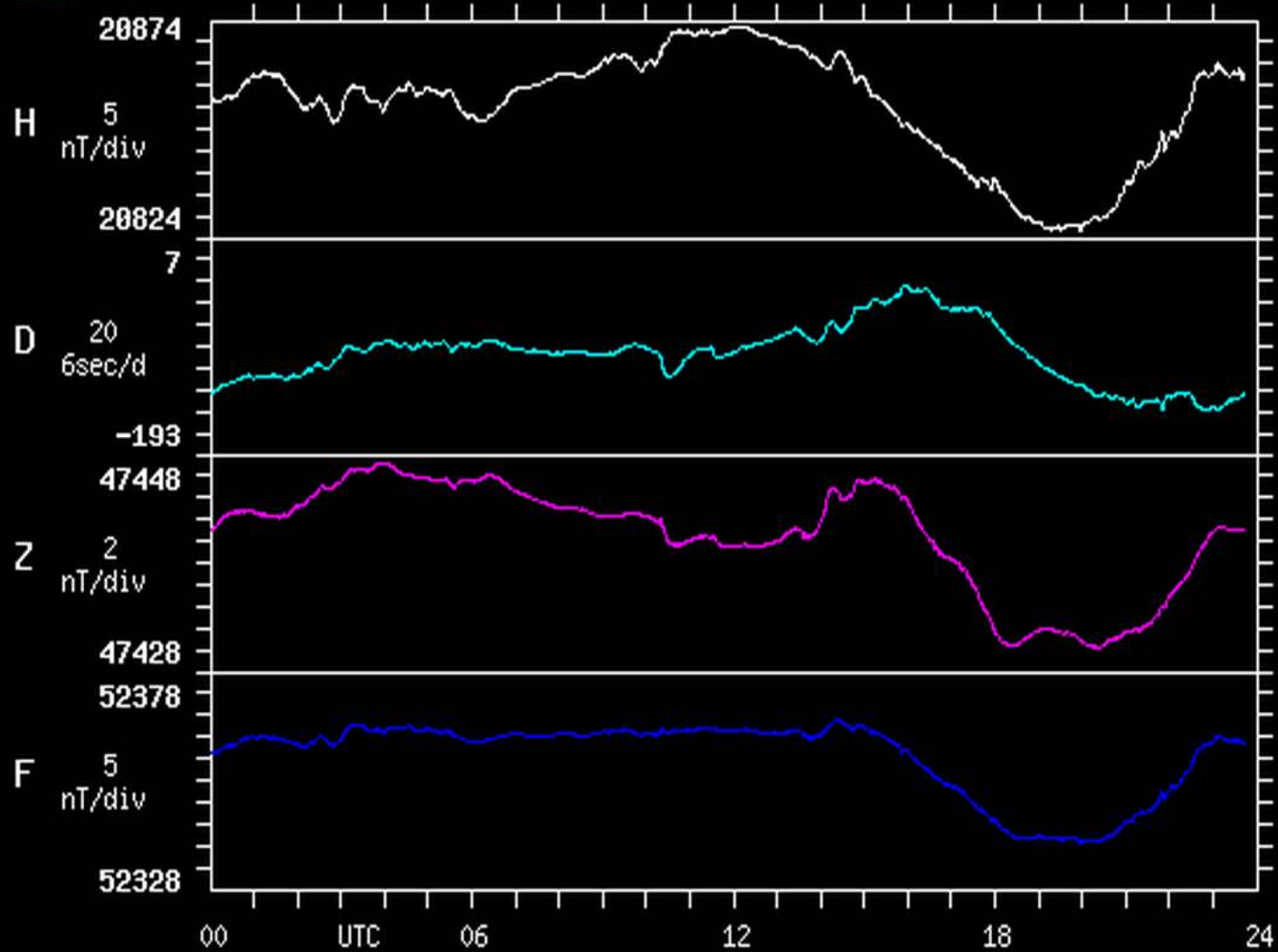
Barrow 2015/02/22

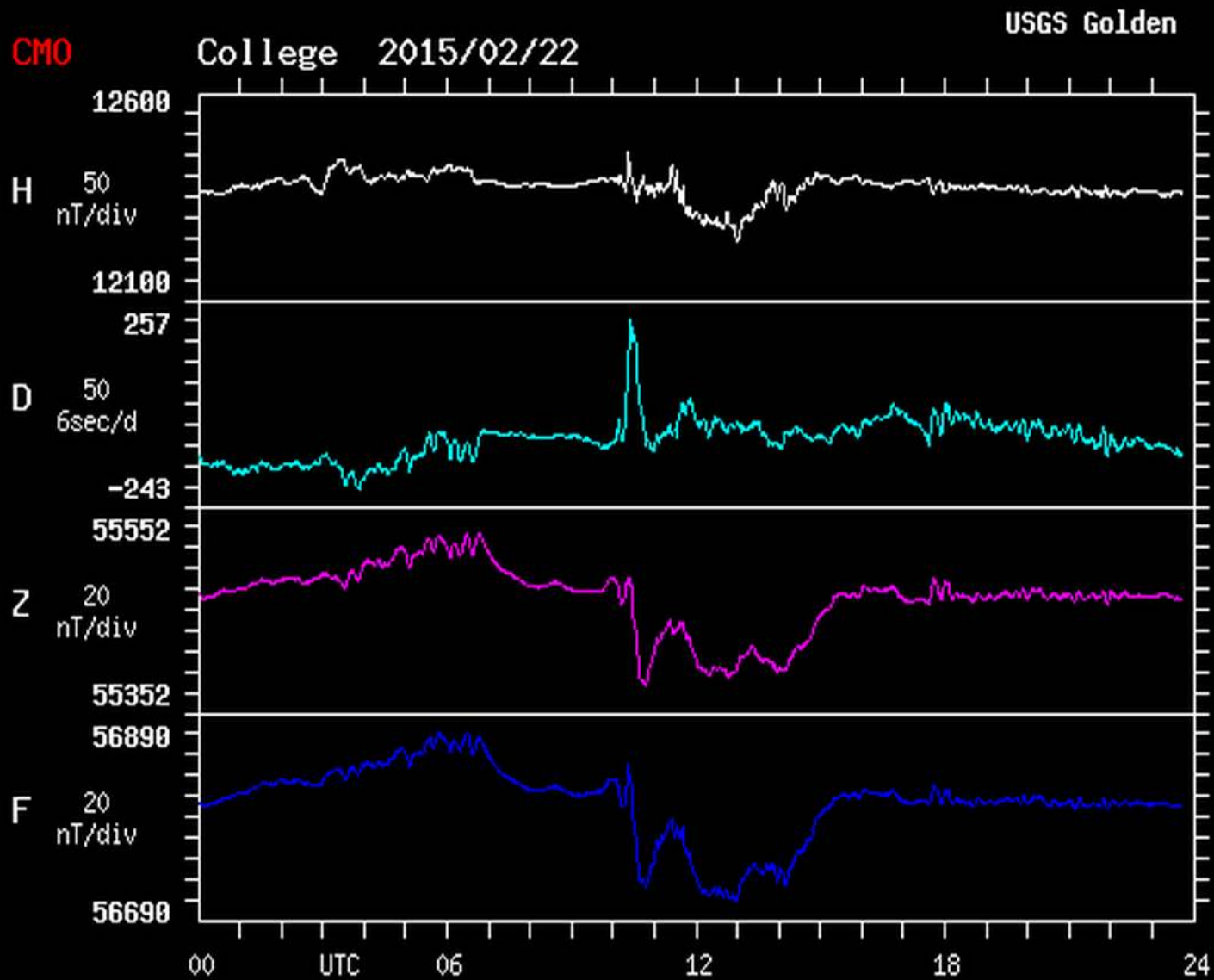


USGS Golden

BOU

Boulder 2015/02/22



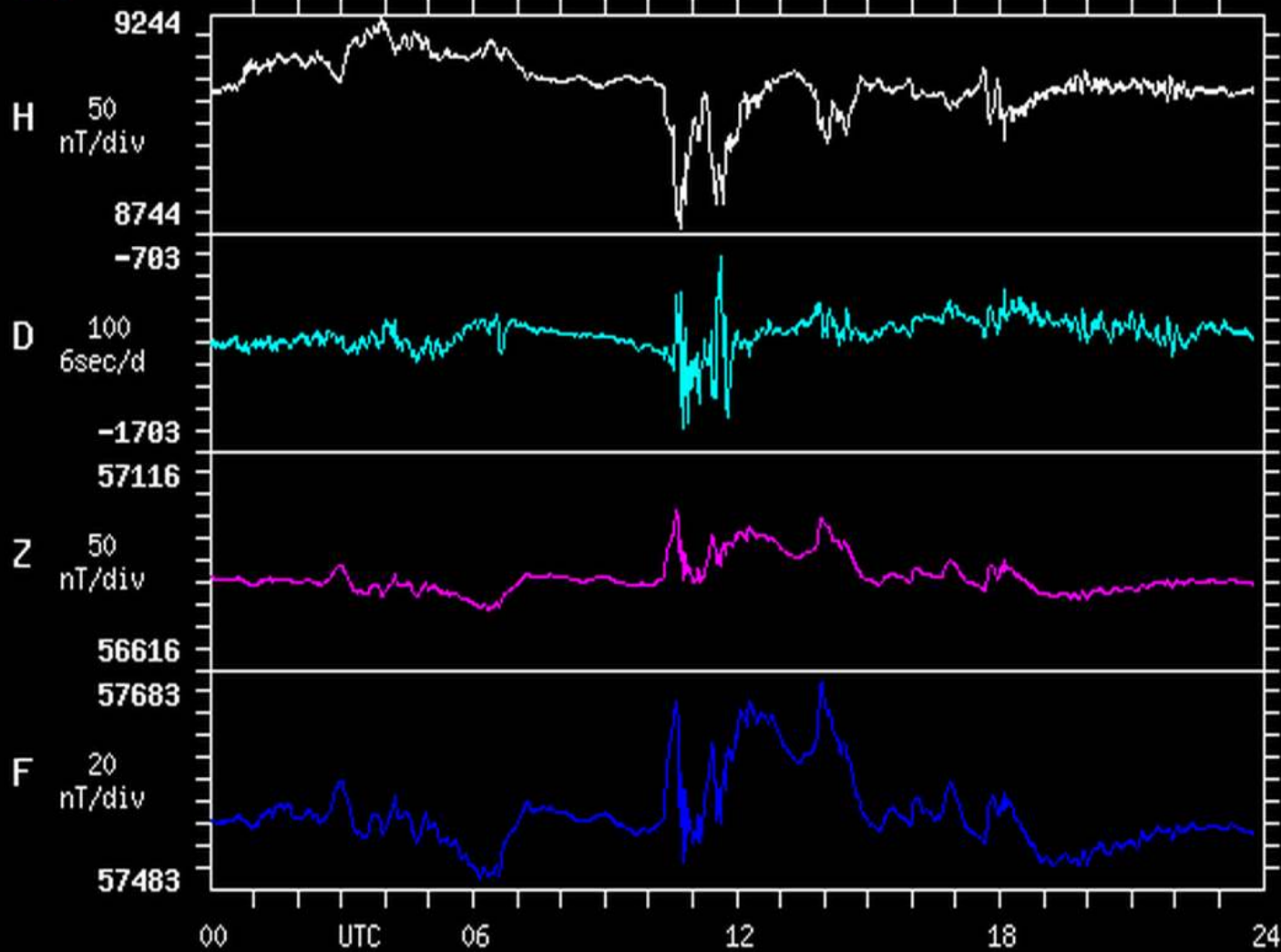


Sun, 22 Feb 2015 23:53:11 GMT Sun Feb 22 2015 16:53:11 GMT-0700 (US Mountain Standard Time)
Sun, 22 Feb 2015 23:53:05 GMT Sun Feb 22 2015 16:53:05 GMT-0700 (US Mountain Standard Time)

USGS Golden

DED

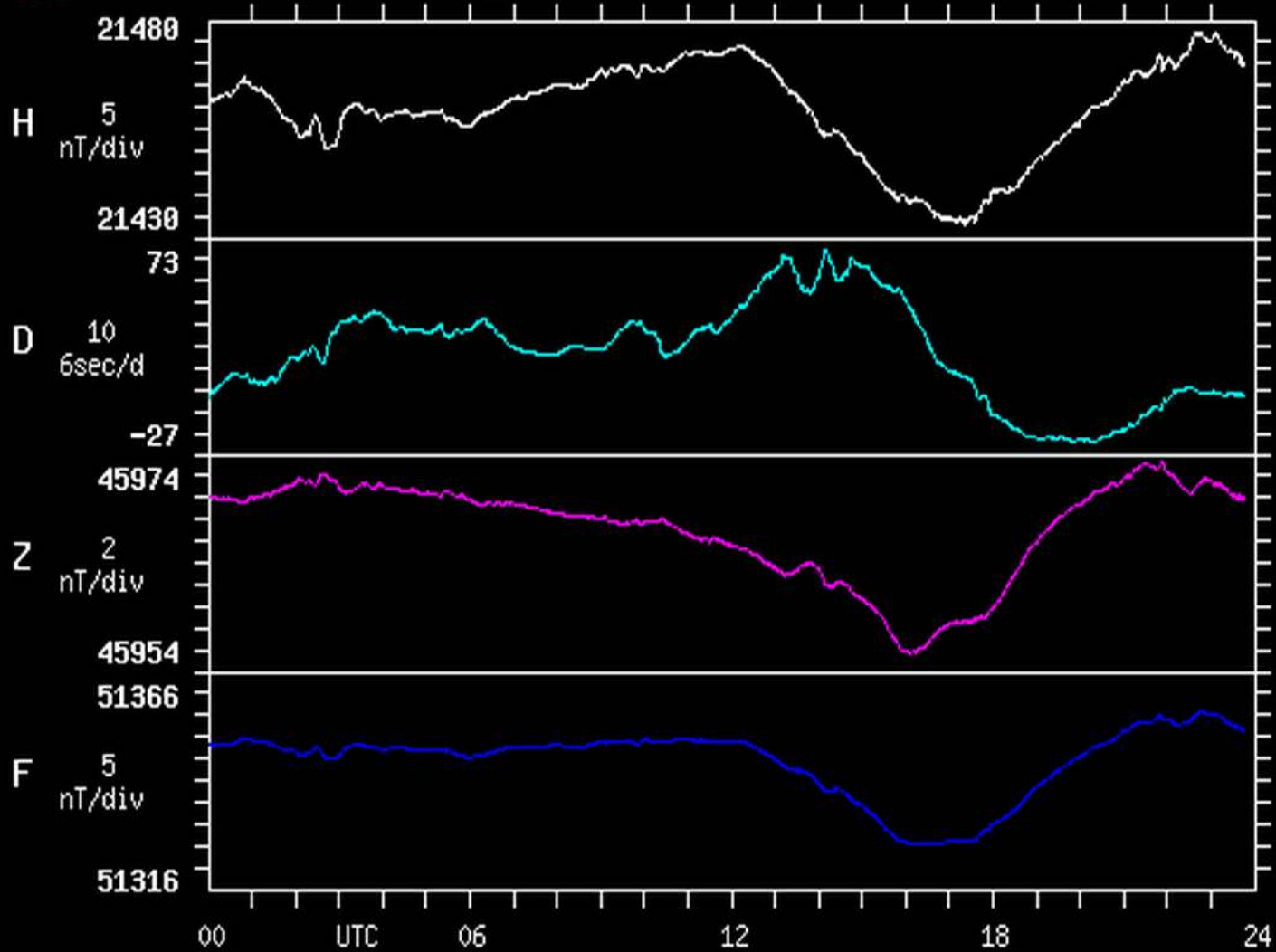
Deadhorse 2015/02/22

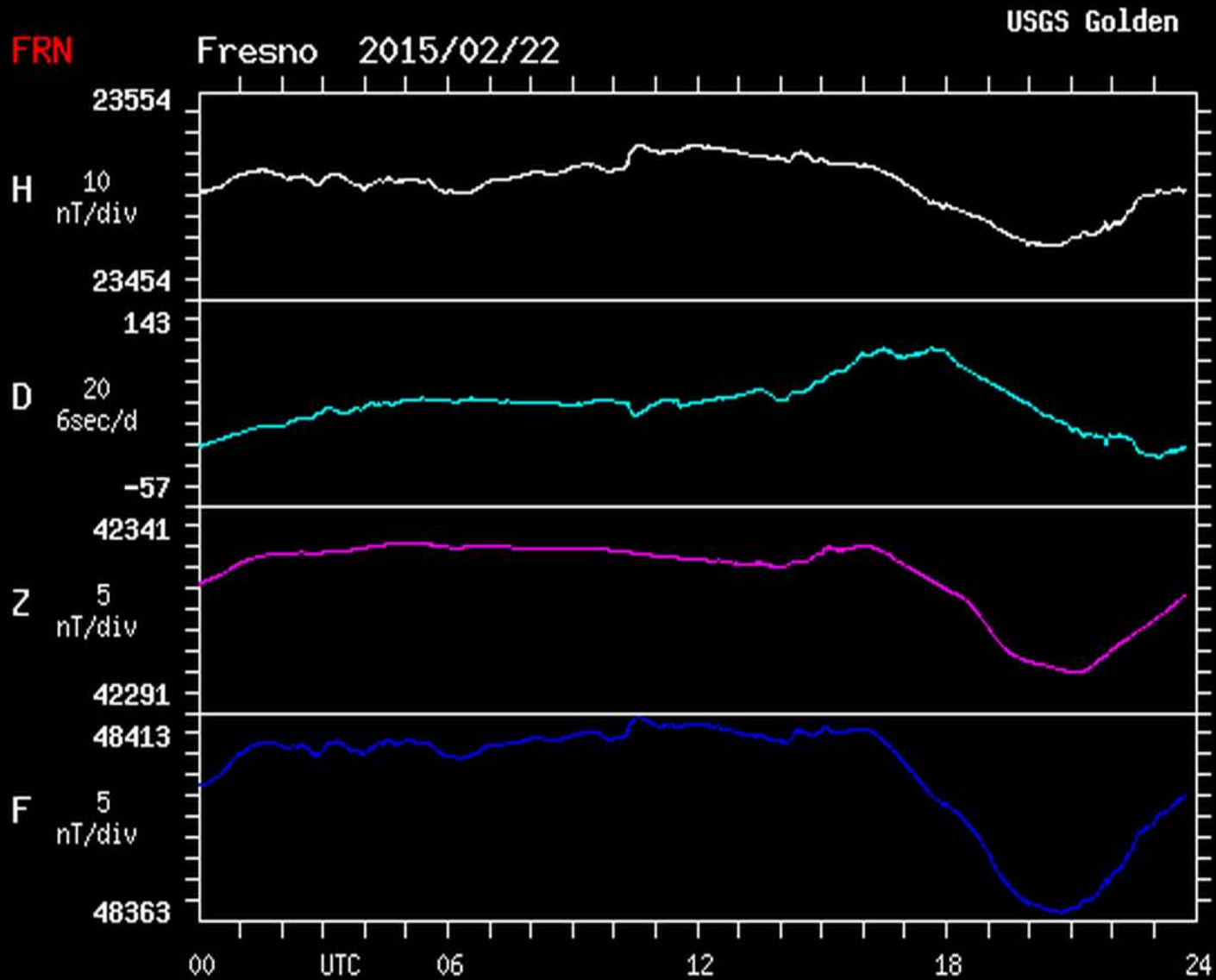


USGS Golden

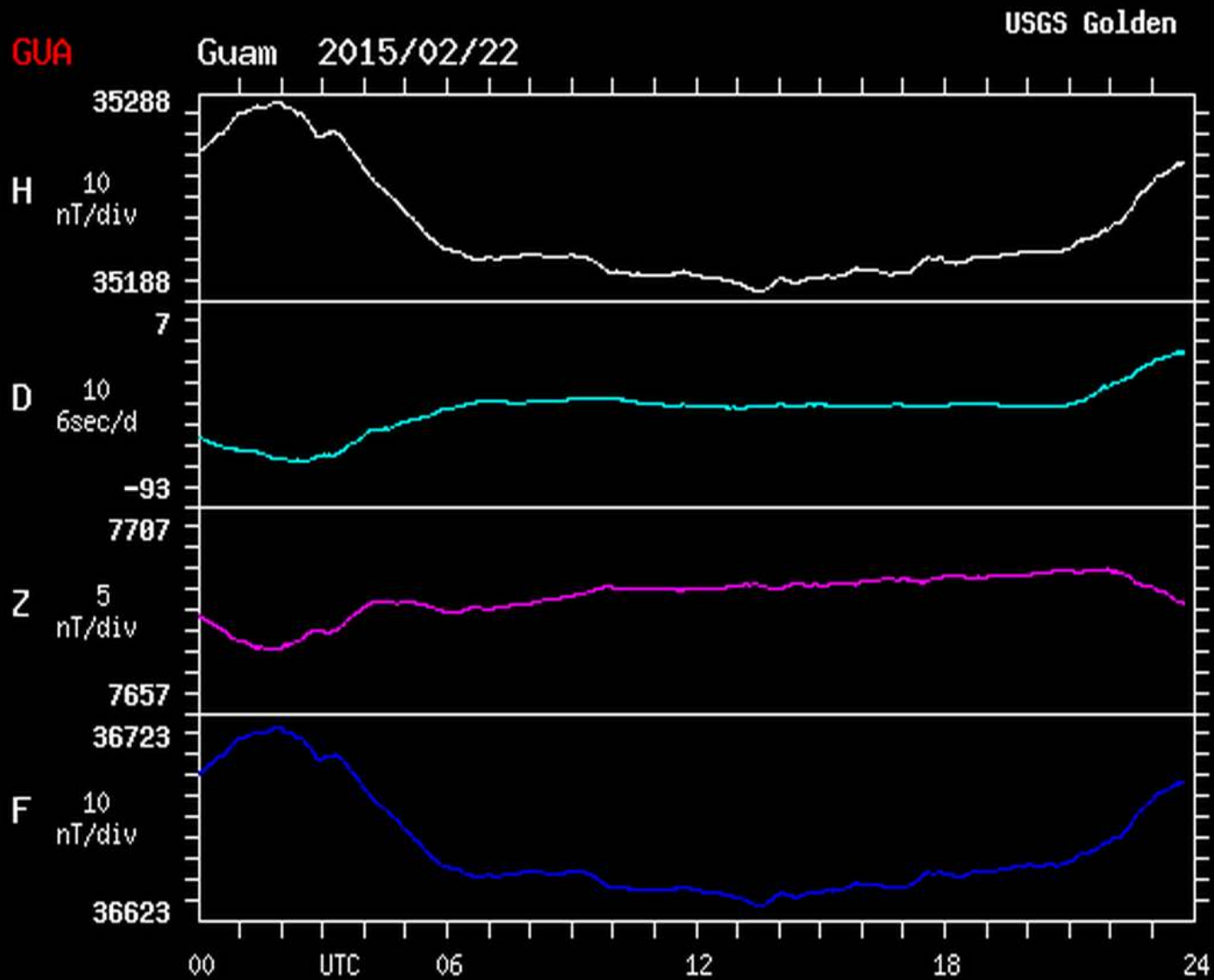
FRD

Fredericksburg 2015/02/22

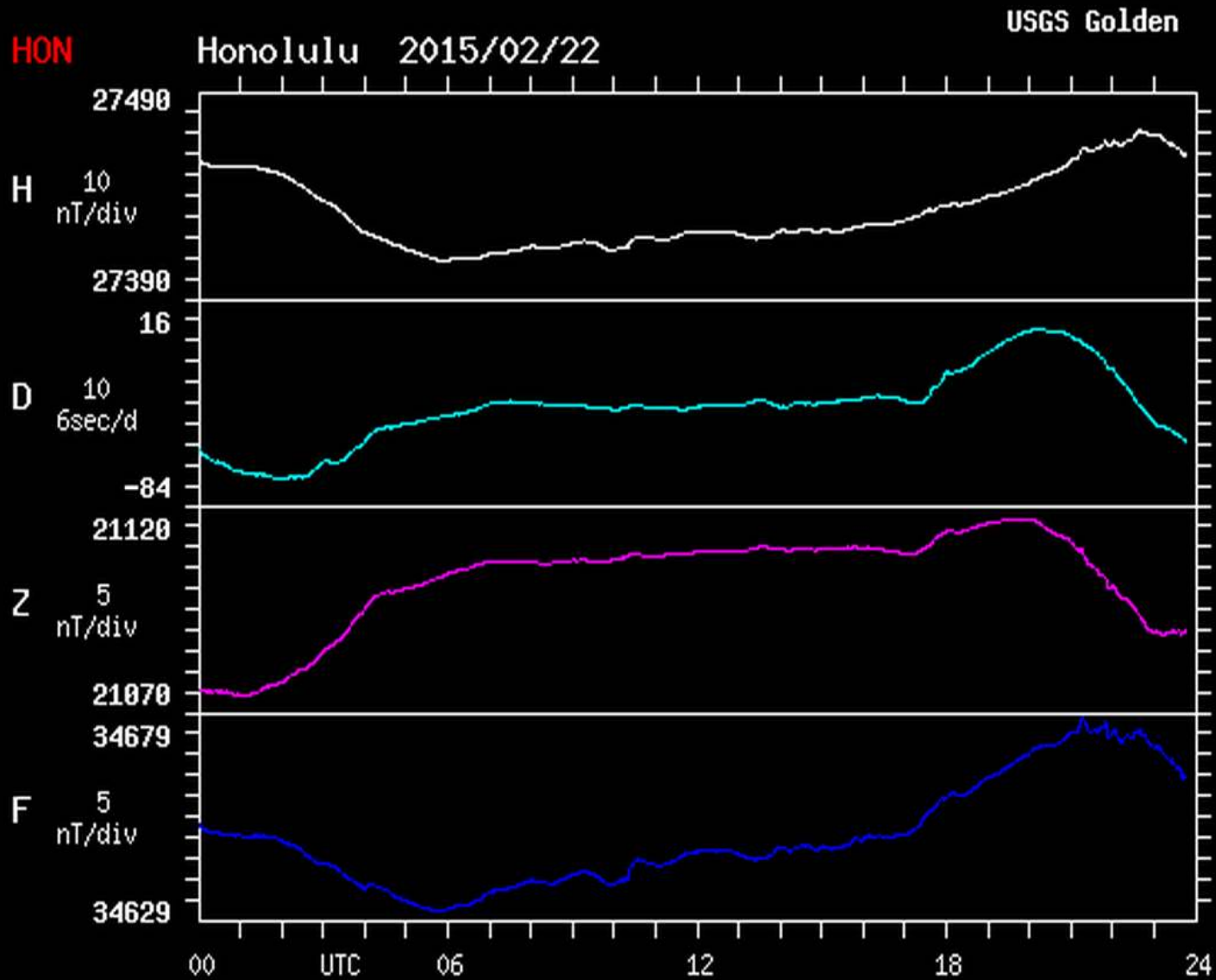




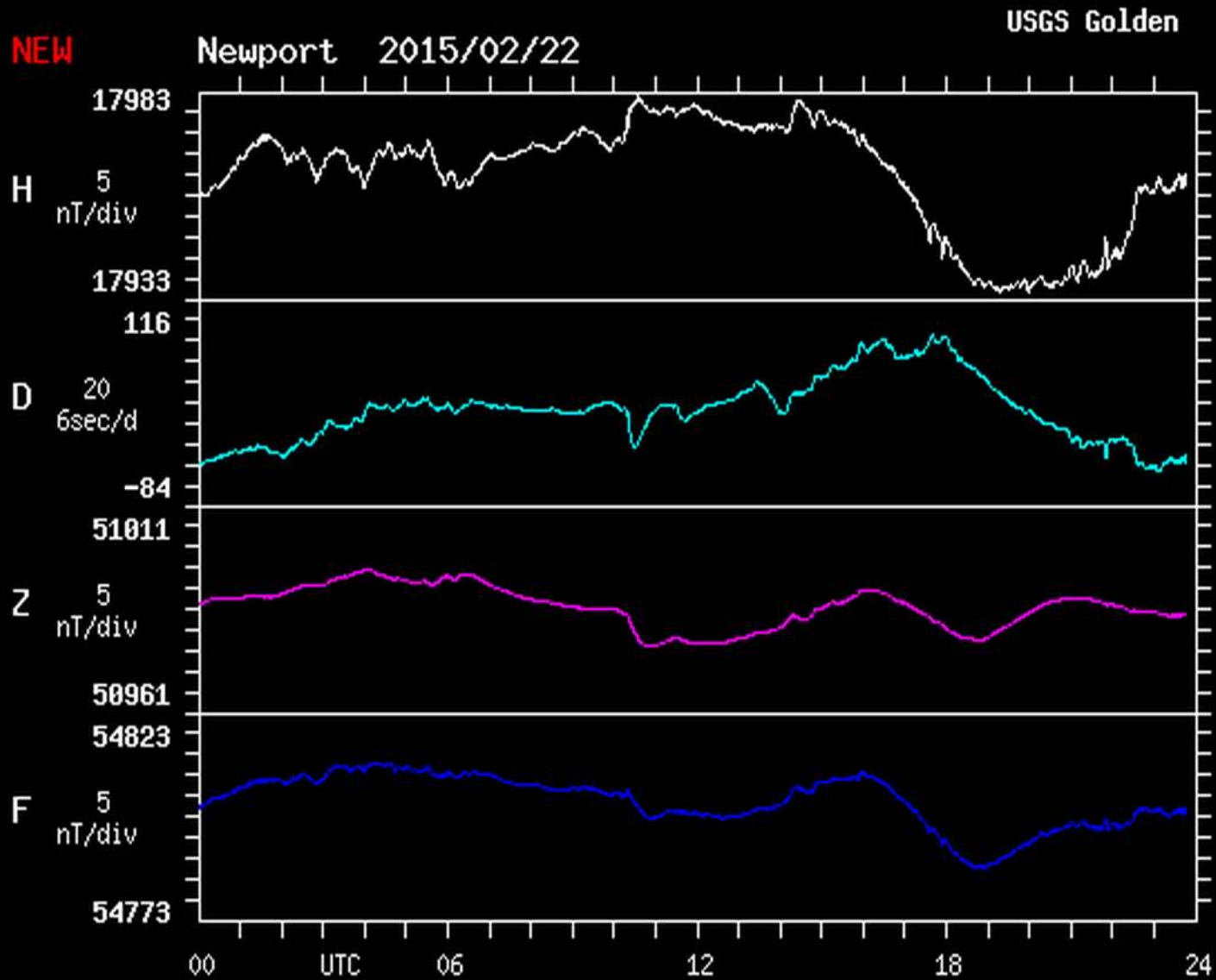
Sun, 22 Feb 2015 23:54:51 GMT Sun Feb 22 2015 16:54:51 GMT-0700 (US Mountain Standard Time)
Sun, 22 Feb 2015 23:54:44 GMT Sun Feb 22 2015 16:54:44 GMT-0700 (US Mountain Standard Time)

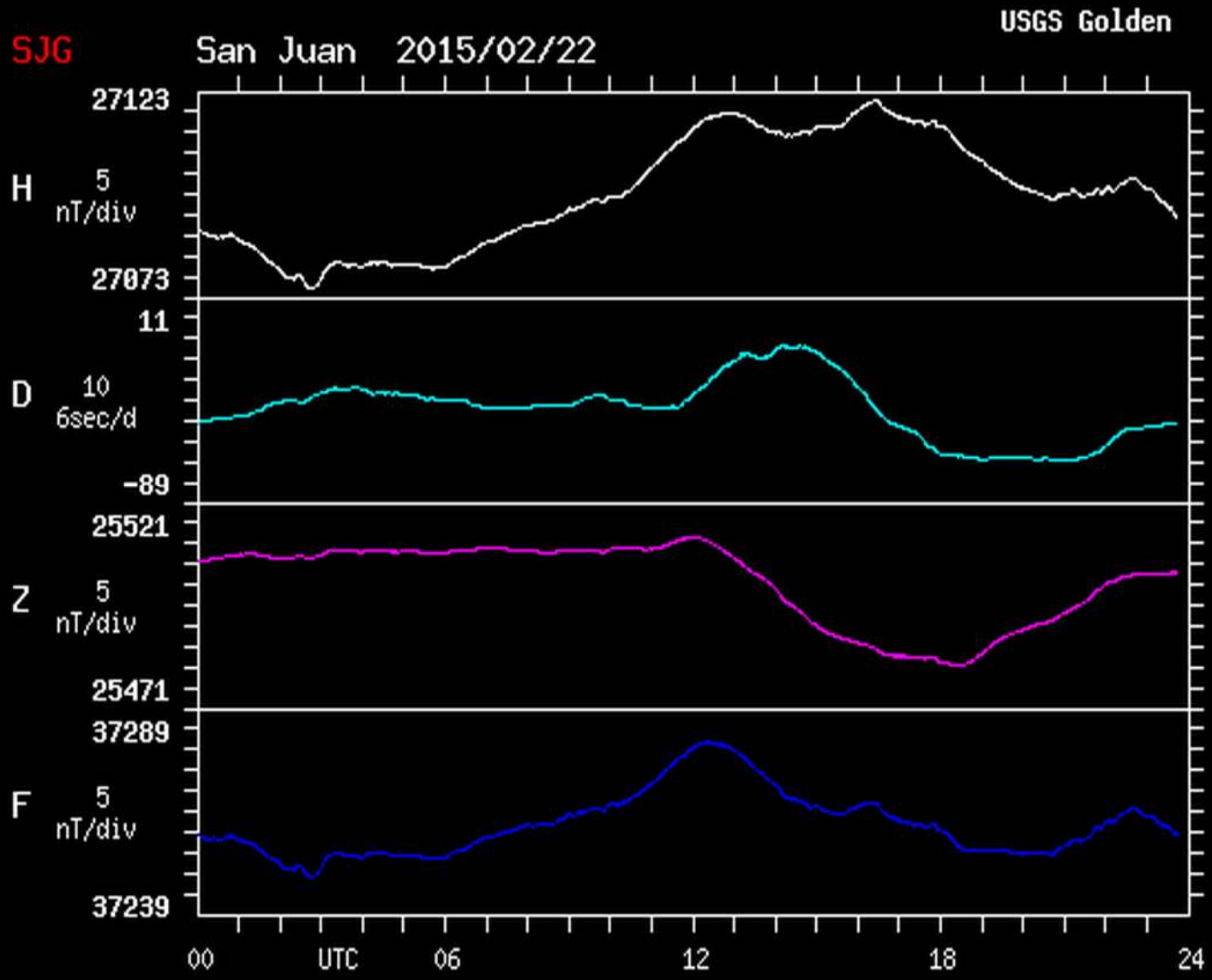


Sun, 22 Feb 2015 23:55:15 GMT Sun Feb 22 2015 16:55:15 GMT-0700 (US Mountain Standard Time)
Sun, 22 Feb 2015 23:55:09 GMT Sun Feb 22 2015 16:55:09 GMT-0700 (US Mountain Standard Time)



Sun, 22 Feb 2015 23:55:38 GMT Sun Feb 22 2015 16:55:38 GMT-0700 (US Mountain Standard Time)
Sun, 22 Feb 2015 23:55:31 GMT Sun Feb 22 2015 16:55:31 GMT-0700 (US Mountain Standard Time)



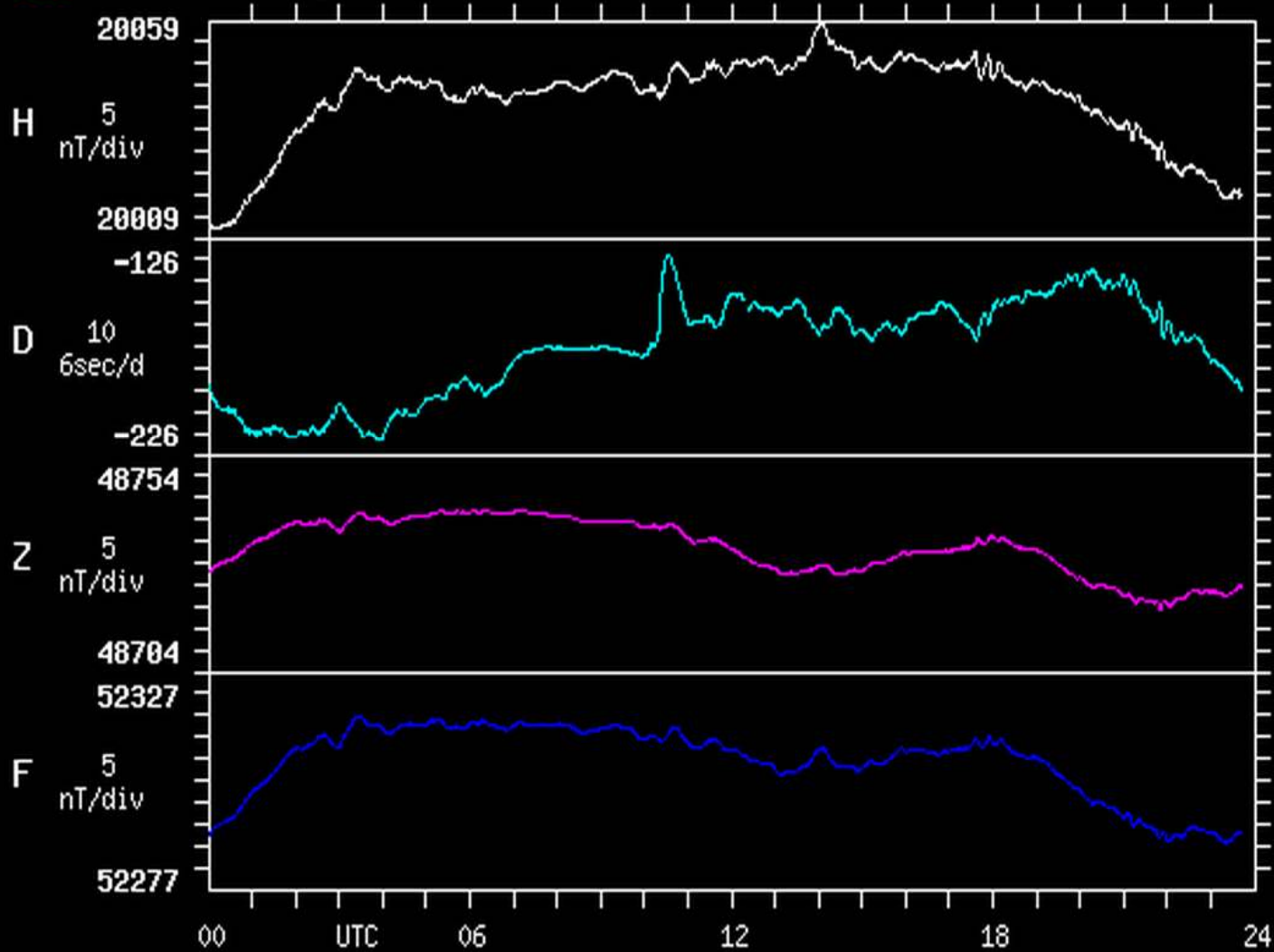


Sun, 22 Feb 2015 23:56:33 GMT Sun Feb 22 2015 16:56:33 GMT-0700 (US Mountain Standard Time)
Sun, 22 Feb 2015 23:56:27 GMT Sun Feb 22 2015 16:56:27 GMT-0700 (US Mountain Standard Time)

USGS Golden

SHU

Shumagin 2015/02/22

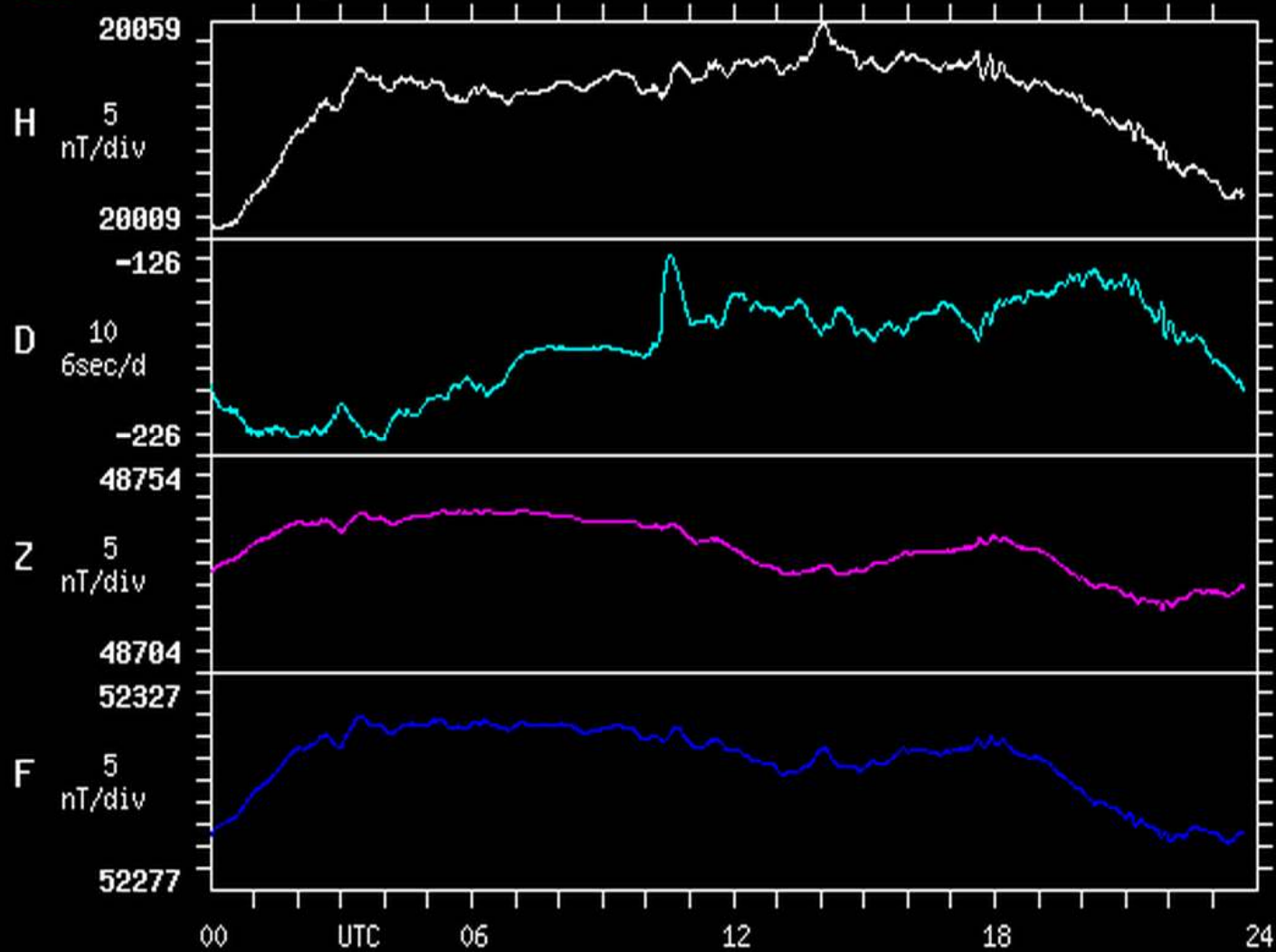


Sun, 22 Feb 2015 23:56:33 GMT Sun Feb 22 2015 16:56:33 GMT-0700 (US Mountain Standard Time)
Sun, 22 Feb 2015 23:56:27 GMT Sun Feb 22 2015 16:56:27 GMT-0700 (US Mountain Standard Time)

USGS Golden

SHU

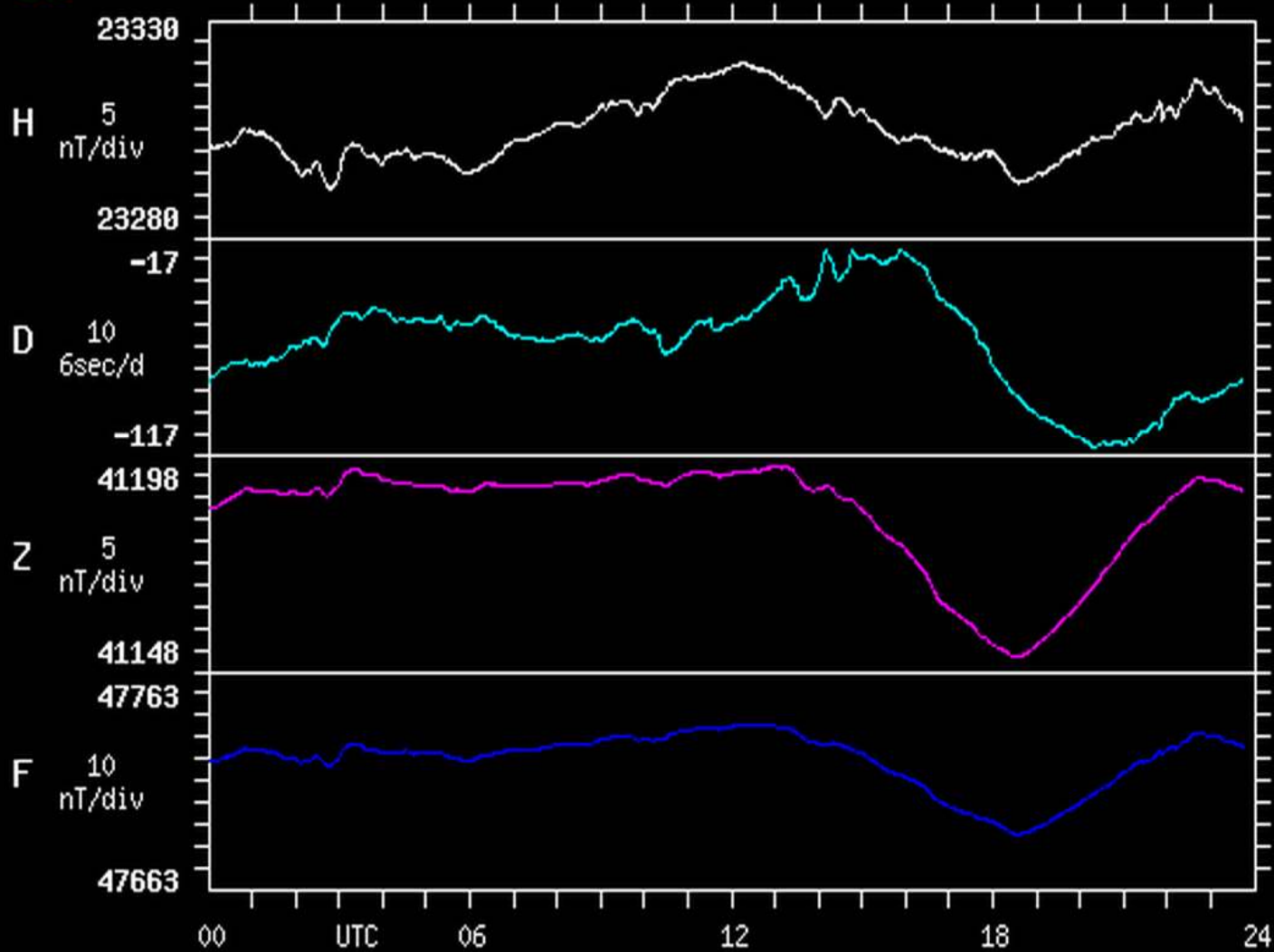
Shumagin 2015/02/22



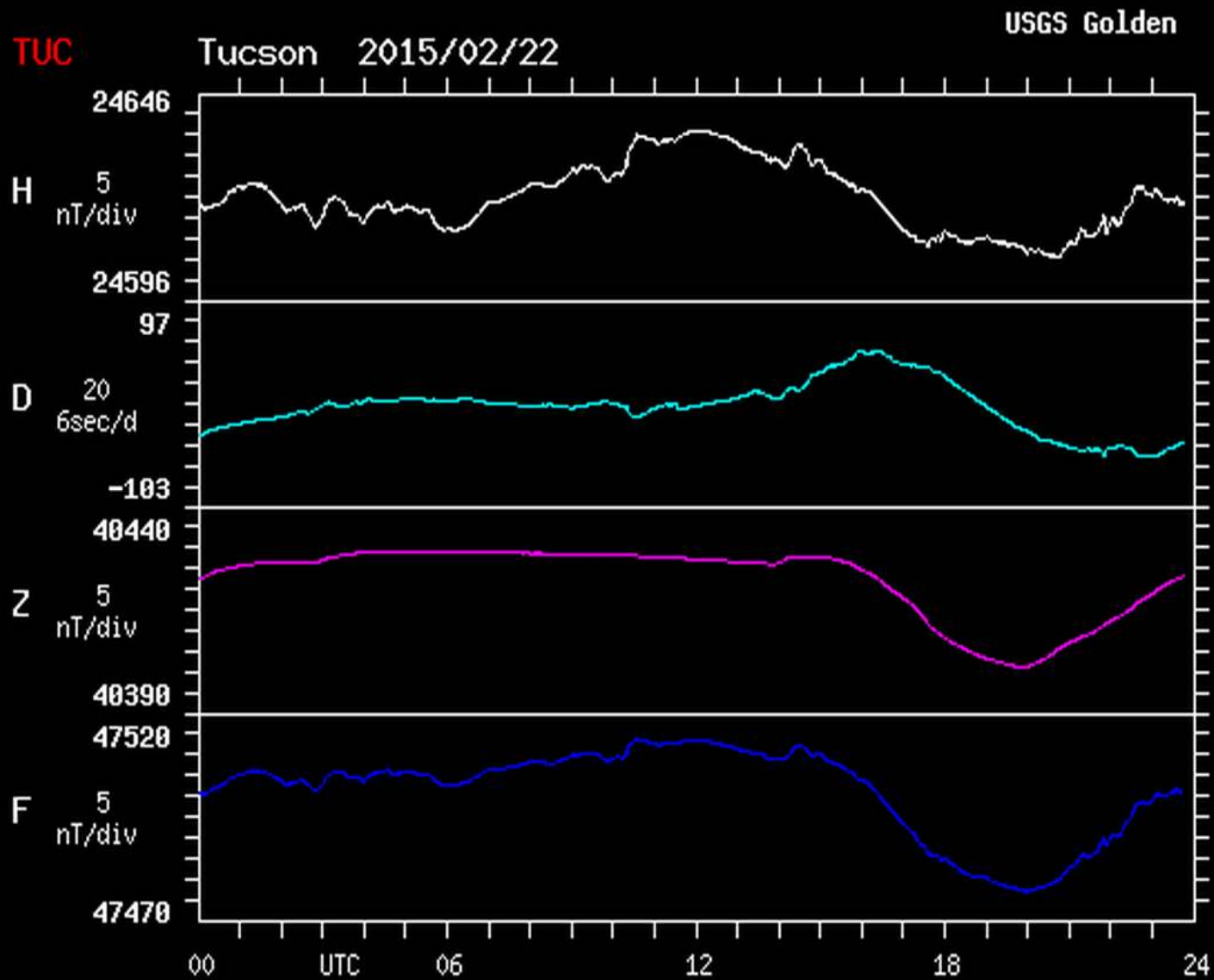
USGS Golden

BSL

Stennis 2015/02/22



Sun, 22 Feb 2015 23:58:00 GMT Sun Feb 22 2015 16:58:00 GMT-0700 (US Mountain Standard Time)
Sun, 22 Feb 2015 23:57:53 GMT Sun Feb 22 2015 16:57:53 GMT-0700 (US Mountain Standard Time)



Sun, 22 Feb 2015 23:58:56 GMT
Sun, 22 Feb 2015 23:58:47 GMT

Sun Feb 22 2015 16:58:56 GMT-0700 (US Mountain Standard Time)
Sun Feb 22 2015 16:58:47 GMT-0700 (US Mountain Standard Time)

