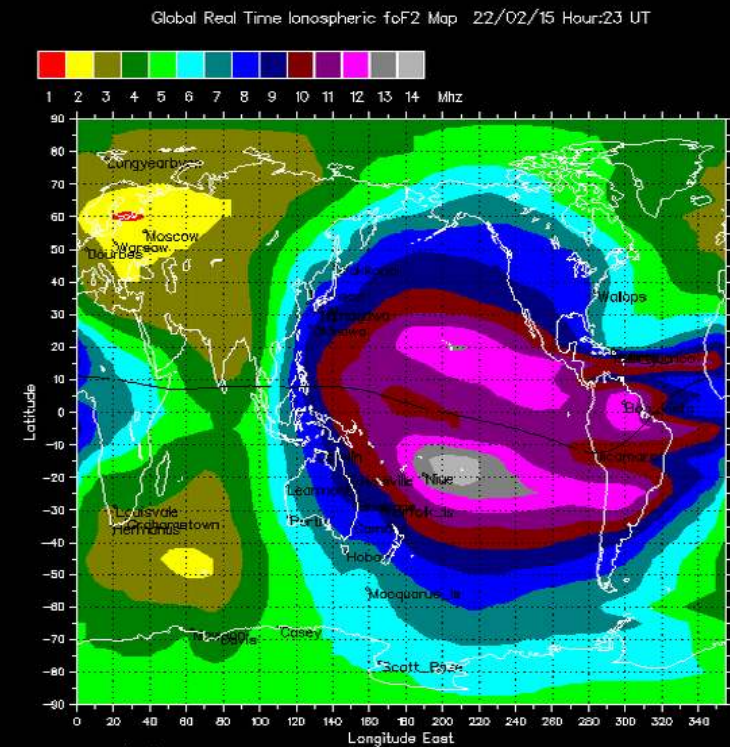
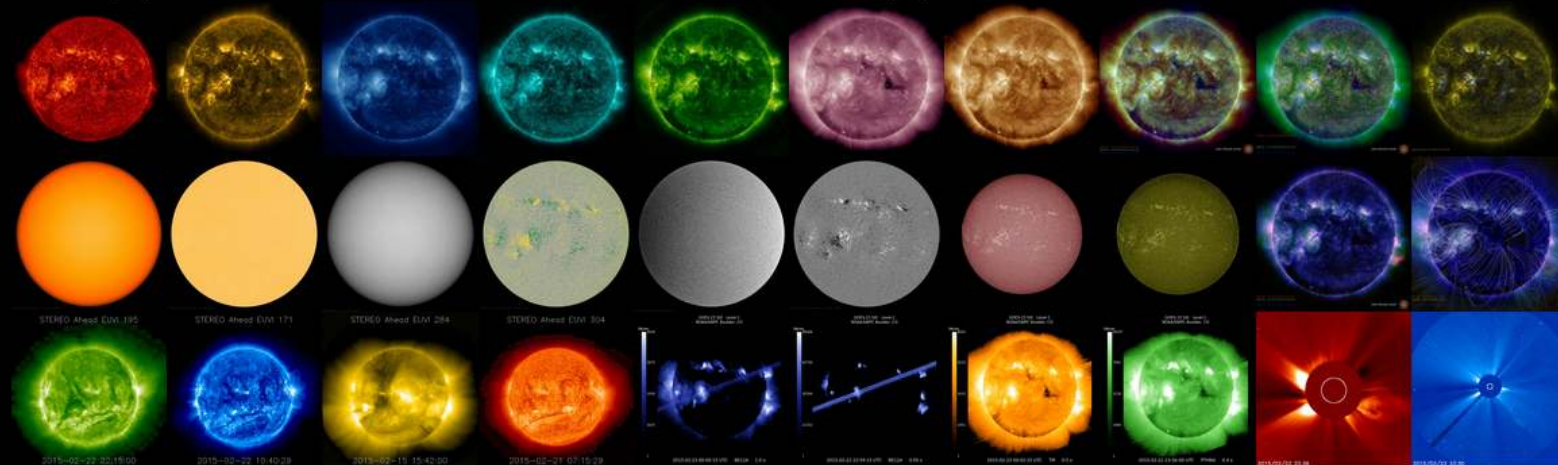


Created at 22/02/2015 23:38:03 UT



Created at 22/02/2015 23:36:00 UT





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

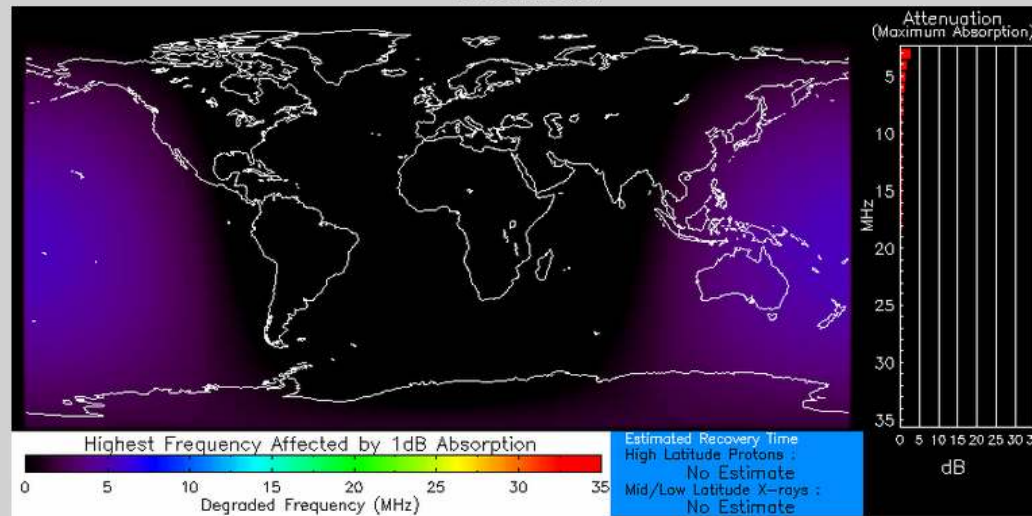
15 MHz

20 MHz

25 MHz

30 MHz

GLOBAL (1 DB ABS)



Normal X-ray Background
Product Valid At : 2015-02-23 00:06 UTC

Normal Proton Background
NOAA/SWPC Boulder, CO USA

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.

Mon, 23 Feb 2015 00:09:33 GMT Sun Feb 22 2015 17:09:33 GMT-0700 (US Mountain Standard Time)
Mon, 23 Feb 2015 00:09:25 GMT Sun Feb 22 2015 17:09:25 GMT-0700 (US Mountain Standard Time)

