

**Subject:** Administrative: GOES-14/15/16/17 Fall 2020 Solar RFI predicted times are now available - Issued September 29, 2020 1522 UTC

**From:** Trusted NESDIS NSOF Sender - NOAA Service Account <trusted.nesdis.nsof.sender@noaa.gov>

**Date:** 9/29/2020, 11:22

**To:** espc.notification@noaa.gov

**Topic:** GOES-14/15/16/17 Fall 2020 Solar RFI predicted times are now available

**Date/Time Issued:** September 29, 2020 1522 UTC

**Product(s) or Data Impacted:** GOES-14/15/16/17 Imager Data plus Ancillary Services (GVAR, SAR, LRIT, EMWIN, DCS, GRB, etc.)

**Date/Time of Initial Impact:** October 3, 2020 1642 UTC

**Date/Time of Expected End:** October 17, 2020 2129 UTC

**Length of Outage:** See table in details.

**Details/Specifics of Change:** The potential for solar radio frequency interference (RFI) with a satellite downlink circuit will occur whenever the Sun passes into the beam of the ground station receiving antenna.

We received the following information from our Mission Operations Division concerning the potential for outages of the GOES data stream including GVAR (GOES Variable) Imager and Sounder, EMWIN (Emergency Managers Weather Information Network), SAR (Search and Rescue), Low Rate Information Transmission (LRIT), High Rate Information Transmission (HRIT), GOES Data Collection System (DCS), Sensor Data (SD), Telemetry and Command (T&C), Weather Facsimile (WEFAX), Data Collection Platform Report (DCPR), Multi-use data link (MDL), Raw Data Link (RDL), etc.

The Dongara Command and Data Acquisition Stations (CDAs) and Environmental Satellite Processing Center (ESPC) receiving antennas may experience periods of Solar RFI as predicted below. Solar RFI can cause loss of telemetry lock and command capability, as well as degradation or loss in the GVAR data.

Solar RFI predicted times for the Fall 2020:

#### SOLAR RFI PREDICTED TIMES FOR FALL 2020

<u>SPACECRAFT</u>	<u>DATE</u>	<u>TIME</u>	<u>STATION</u>	<u>OPERATIONAL IMPACT</u>
GOES-14	<b>5 OCT – 12 OCT</b>	1855 - 1906Z	WALLOPS	T&C
	<b>5 OCT – 12 OCT</b>	1854 - 1905Z	SUITLAND	
	<b>5 OCT – 12 OCT</b>	1852 - 1904Z	FAIRMONT	
GOES-15	<b>3 OCT – 10 OCT</b>	2042 - 2053Z	WALLOPS	T&C
	<b>3 OCT – 10 OCT</b>	2041 - 2052Z	SUITLAND	
	<b>3 OCT – 10 OCT</b>	2040 - 2051Z	FAIRMONT	
	<b>10 OCT – 17 OCT</b>	2013 - 2024Z	FAIRBANK	
GOES-16	<b>4 OCT – 11 OCT</b>	1645 - 1656Z	WALLOPS	RDL, GRB, T&C, HRIT, DCPC,
	<b>4 OCT – 11 OCT</b>	1644 - 1655Z	SUITLAND	SAR
	<b>4 OCT – 11 OCT</b>	1642 - 1653Z	FAIRMONT	
GOES-17	<b>3 OCT – 10 OCT</b>	2118 - 2129Z	WALLOPS	RDL, GRB, T&C, HRIT, DCPC,
	<b>3 OCT – 10 OCT</b>	2117 - 2128Z	SUITLAND	SAR
	<b>3 OCT – 10 OCT</b>	2116 - 2127Z	FAIRMONT	

**Contact Information for Further Information:**

For information on the status of this work, please contact ESPC Operations at [ESPCOperations@noaa.gov](mailto:ESPCOperations@noaa.gov) and 301-817-3880 and [SPSD.Userservices@noaa.gov](mailto:SPSD.Userservices@noaa.gov)