



# Solar radio frequency data

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Solar Radio Data. Scientists monitor the structure of the solar corona, the outer most regions of the Sun's atmosphere, using radio waves -- the surface of the Sun is 6,000 degrees Kelvin, while the high corona can reach several million degrees Kelvin.

Each observatory monitors solar radio emissions on 8 discrete fixed frequencies (245, 410, 610, 1415, 2695, 4995, 8800 and 15400 MHz) as well as low frequency spectral emissions in the VHF band. This document is only concerned with the 8 discrete frequencies.

Solar Radio Datasets. The structure of the solar corona, the outermost regions of the Sun's atmosphere, can be monitored using radio waves (100's of MHz to 10's of GHz). Variations in the radio wave spectrum reveal characteristics of the corona and upper chromosphere in terms of altitude profile for the local plasma temperature, density and ...

Schmahl and Kundu (1995) find that the solar radio fluxes in the spectral range 1000-9400 MHz correlate well with the total solar irradiance. The intermediate frequencies (at 2800 and 3750 MHz) are produced mainly by free-free gyroresonance emission from sunspot structures, while 1000 and 9400 MHz flux are produced mainly by free-free processes ...

Solar-Geophysical Data Reports 54 Years of Space Weather Data. Solar ...

HF Radio: Weak or minor degradation of HF radio communication on sunlit side, ...

Outstanding Occurrences -- Solar radio emission bursts at fixed frequencies are ...

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Please Note: Most products and services now have a complete historical record, however a few datasets continue to be recovered after the impacts of Hurricane Helene. We apologize for any inconvenience.

The structure of the solar corona, the outermost regions of the Sun's atmosphere, can be monitored using radio waves (100's of MHz to 10's of GHz). Variations in the radio wave spectrum reveal characteristics of the corona and upper chromosphere in terms of altitude profile for the local plasma temperature, density and magnetic field. Typically, the lower the frequency, the higher the height of origin.



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NOAA NCEI has acquired these legacy data sets from multiple sources over many decades. The data presented here are provided, "as is," and in most cases the linked documentation is the entirety of available information. In some cases, older data may also be found in theSpace Weather Legacy Print Publications.

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