



Solar - WSA-ENLIL

EMC (<https://ccmc.gsfc.nasa.gov/donki/>):

WSA-ENLIL(CMEs 2024-08-04 23:12:00 UT, 2024-08-05 03:12:00 UT, 2024-08-05 05:48:00 UT and 2024-08-05 16:00:00)
The simulation results indicate that the flank of CME will reach the DSCOVR mission between 2024-08-08 09:00:00 UT and 2024-08-08 23:00:00 UT.

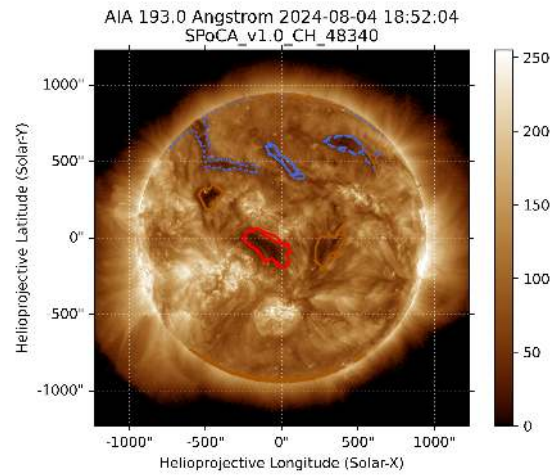
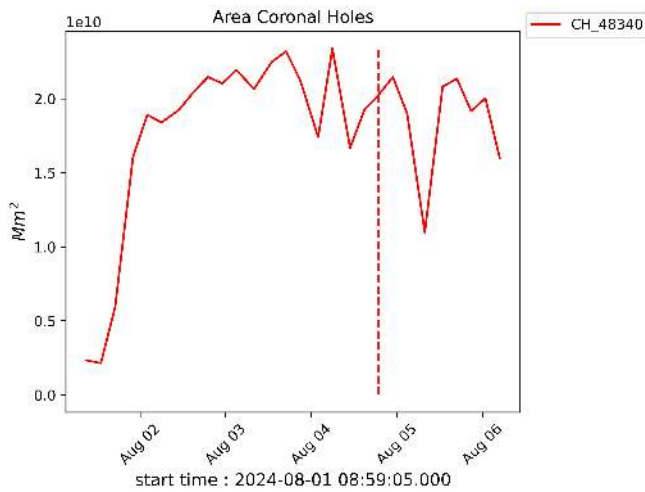
WSA-ENLIL(CME 2024-08-07 19:36:00 UT)
The simulation results indicate that the flank of CME will reach the DSCOVR mission between 2024-08-10 23:00:00 UT and 2024-08-11 13:00:00 UT.

WSA-ENLIL(CMEs 2024-08-09 08:24:00 UT and 2024-08-09 12:53:00 UT)
The simulation results indicate that the flank of CME will reach the DSCOVR mission between 2024-08-12 09:00:00 UT and 2024-08-12 23:00:00 UT.

WSA-ENLIL(CME 2024-08-10 03:12:00 UT)
The simulation results indicate that the flank of CME will reach the DSCOVR mission between 2024-08-12 21:00:00 UT and 2024-08-13 11:00:00 UT.

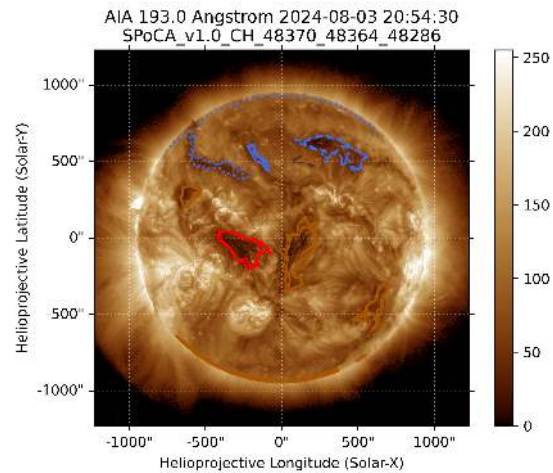
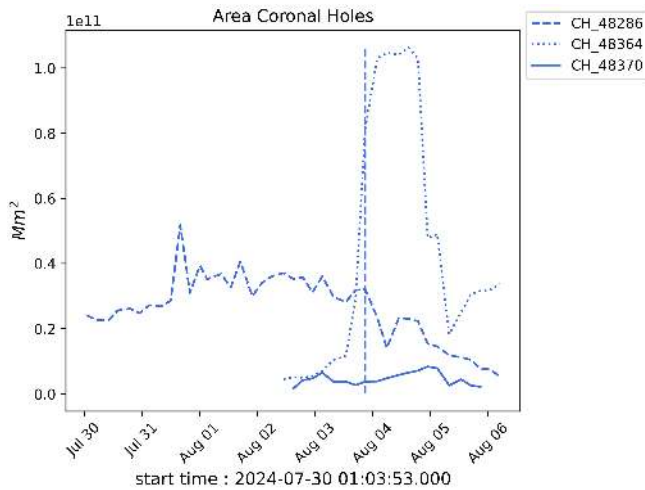
WSA-ENLIL(CME 2024-08-09 21:48:00 UT)
The simulation results indicate that the flank of CME will reach the DSCOVR mission between 2024-08-13 05:00:00 UT and 2024-08-13 19:00:00 UT.

Solar - Coronal holes Spatial Possibilistic Clustering Algorithm (SPoCAS):



(a) The solid black line depicts the products of the sum of areas for each detection interval performed by SPOCA between July 29 and August 06,2024.

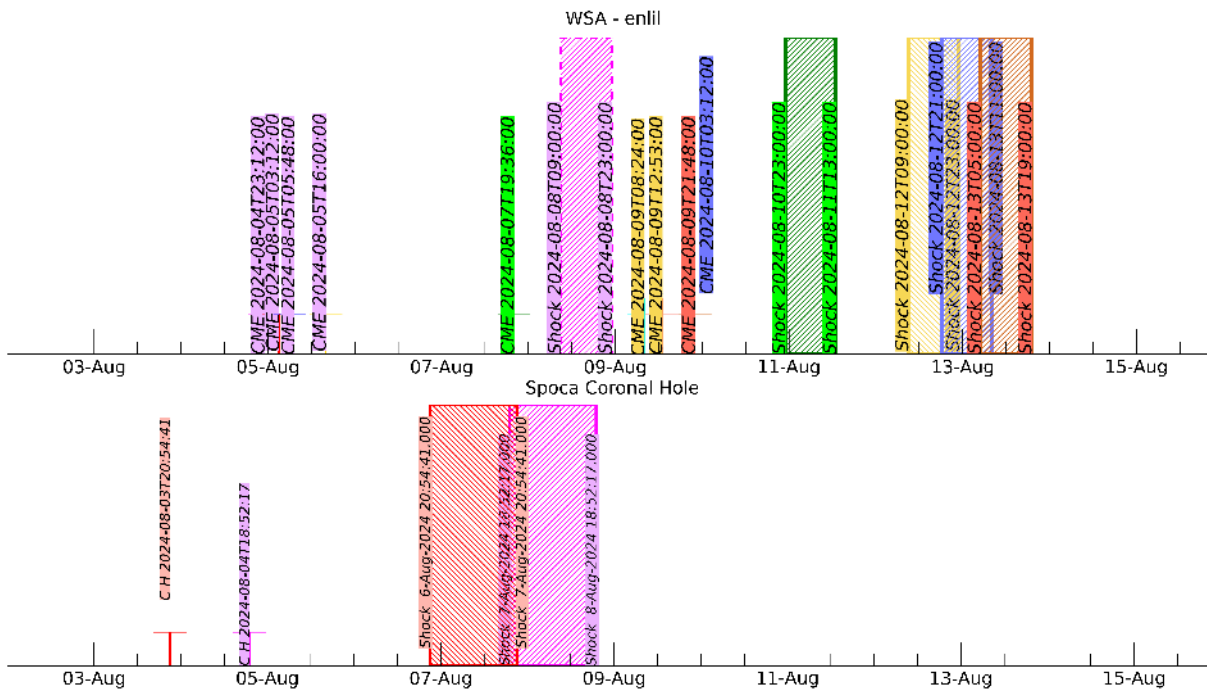
(b) Above the 193 Å image of the Sun are highlighted coronal holes observed by SPOCA around 18:52 UT on August 04, 2024 (red dot line).



(a) The solid black line depicts the products of the sum of areas for each detection interval performed by SPOCA between July 29 and August 06,2024.

(b) Above the 193 Å image of the Sun are highlighted coronal holes observed by SPOCA around 20:54 UT on August 03, 2024 (blue dot line).

Solar - WSA - ENLIL and SPoCA



EARTH'S RADIATION BELT

Responsible: Ligia Da Silva

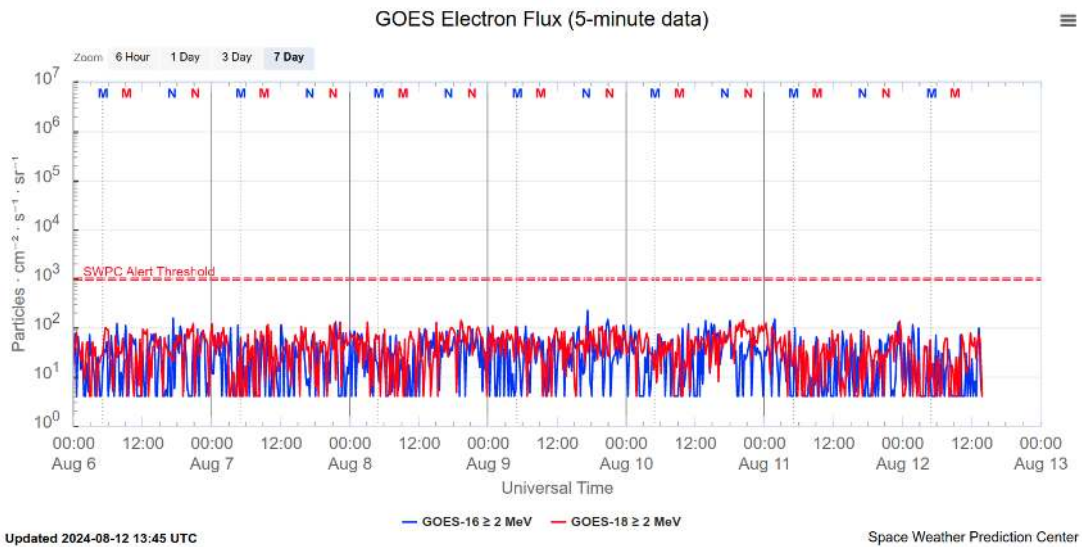


Figure 1: High-energy electron flux (> 2MeV) obtained from GOES-16 and GOES-18 satellite. Source: <https://www.swpc.noaa.gov/products/goes-electron-flux>

Summary

The high-energy electron flux (>2 MeV) in the outer boundary of the outer radiation belt obtained from geostationary satellite data GOES-16 (Figure 1 – blue line) and GOES-18 (Figure 1 – red line) is confined below 10^2 particles/(cm² s sr) during the entire analyzed period.

Ionosphere – Digisonde (Laysa Resende)

Summary

We observed the typical F layer's trace over Cachoeira Paulista. Also, we observed the E2 region's trace on August 19, 2024, for the same station (Figure 1).

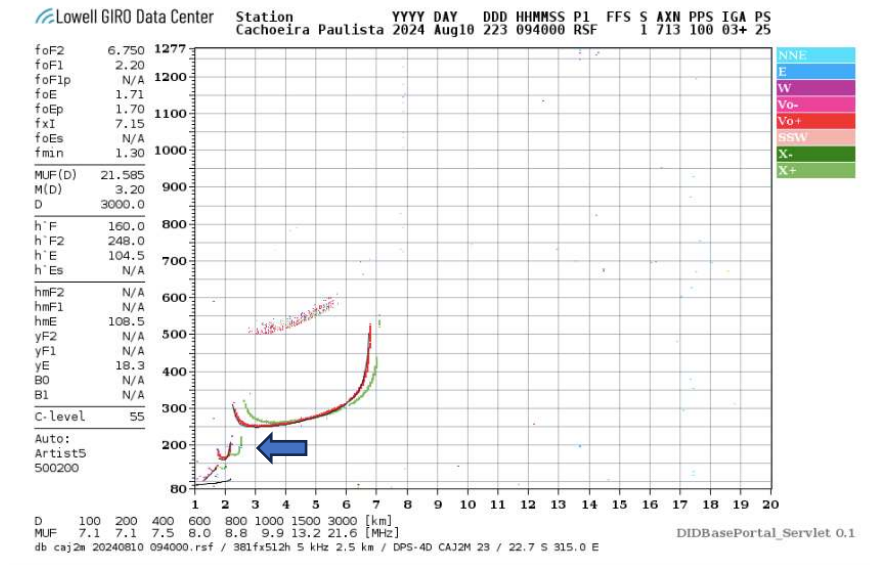


Figure 1 – Ionogram over Cachoeira Paulista, showing the E2 region's trace.

Ionosphere - ROTI Summary for Week 2326 (August 4 to 10, 2024)

Carolina de Sousa do Carmo

In the week 2326 (August 4 to 10, 2024), ionospheric irregularities (plasma bubbles) were observed at Boa Vista on August 7 and 8, and at Cuiabá on August 8, and 9. The Figure below shows the ROTI time series for four stations in the Brazilian sector (Boa Vista (BOAV), Natal (RNNA), Cuiabá (CUIB), and Cachoeira Paulista (CHPI)).

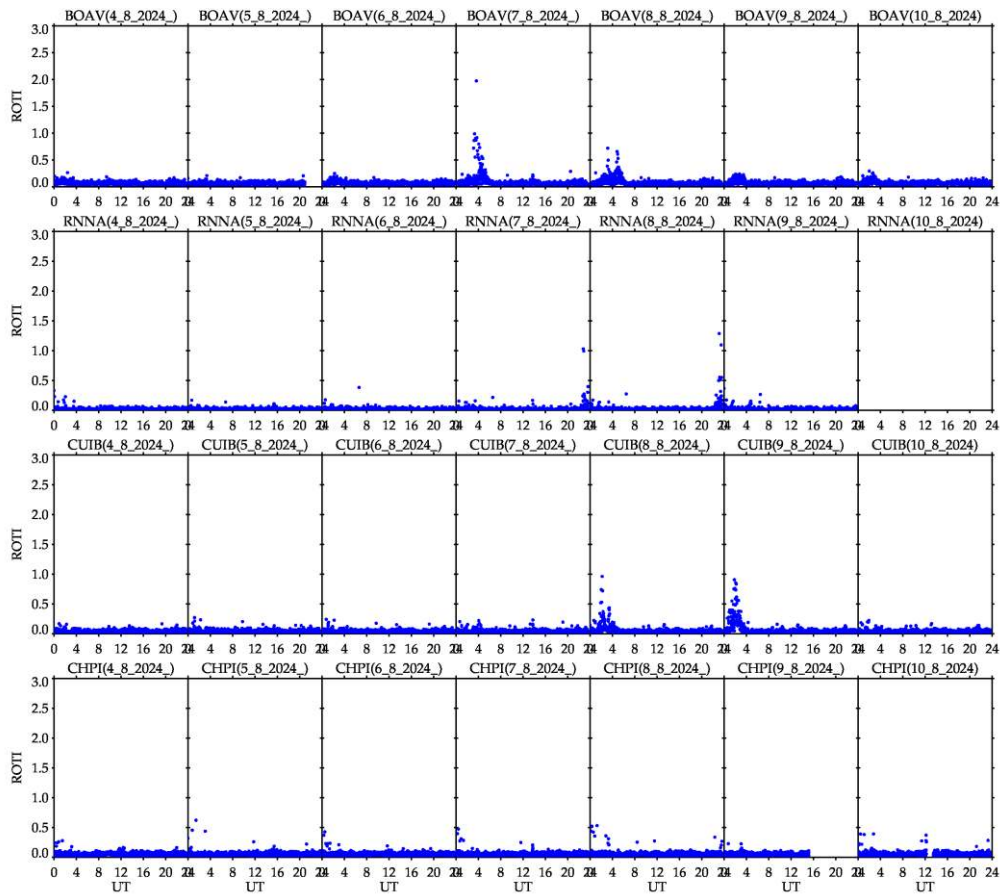


Figure – ROTI time series for four stations in the Brazilian sector (Boa Vista (BOAV), Natal (RNNA), Cuiabá (CUIB), and Cachoeira Paulista (CHPI)), from August 4 to 10, 2024.