



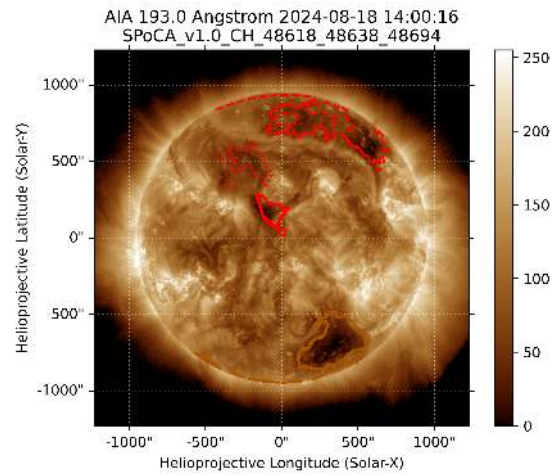
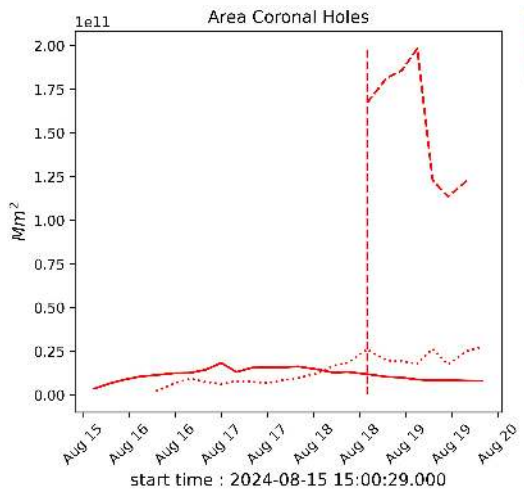
## Solar - WSA-ENLIL

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

WSA-ENLIL(CME 2024-08-23 02:00:00 UT )

The simulation results indicate that the flank of CME will reach the DSCOVR mission between 2024-08-26 07:22:00 UT and 2024-08-26 21:22:00 UT.

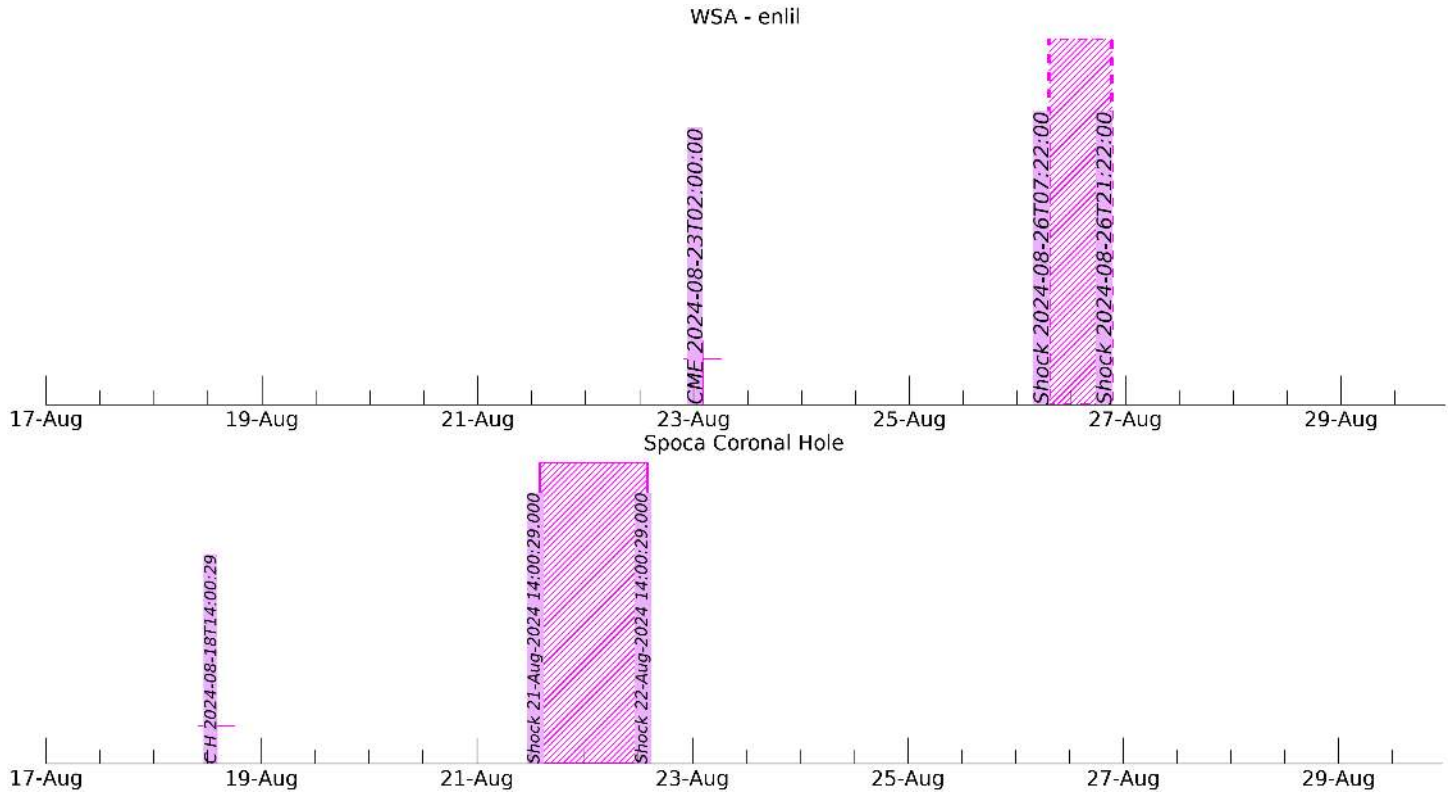
# Solar - Coronal holes Spatial Possibilistic Clustering Algorithm (SPoCAS):



(a) The solid black line depicts the products of the sum of areas for each detection interval performed by SPOCA between August 12 and 19, 2024.

(b) Above the 193 Å image of the Sun are highlighted coronal holes observed by SPOCA around 14:00 UT on August 18, 2024 (red dot line).

# Solar - WSA - ENLIL and SPoCA



## EARTH'S RADIATION BELT

**Responsible: Ligia Da Silva**

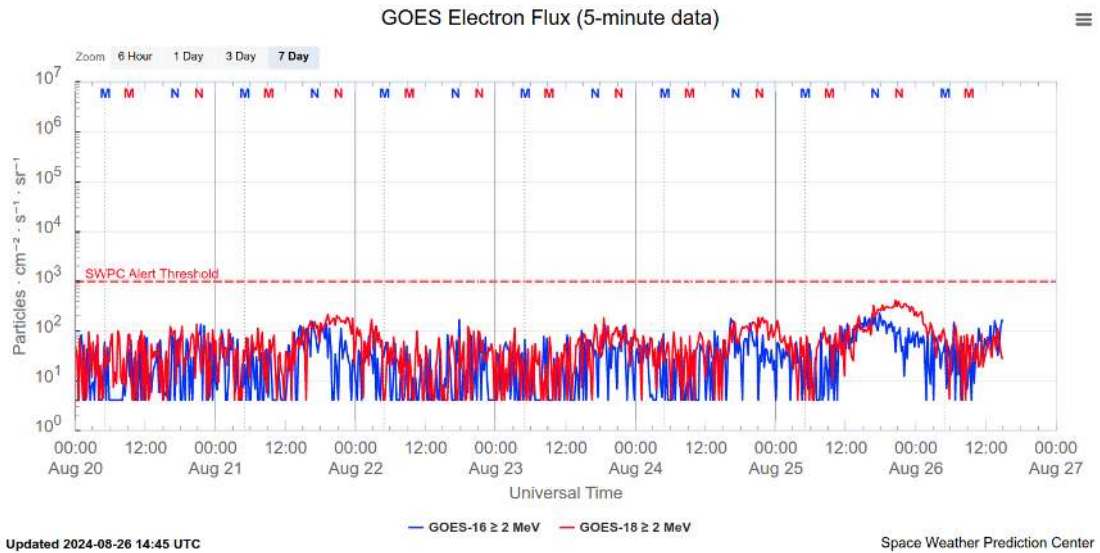


Figure 1: High-energy electron flux (> 2MeV) obtained from GOES-16 and GOES-18 satellite. Source: <https://www.swpc.noaa.gov/products/goes-electron-flux>

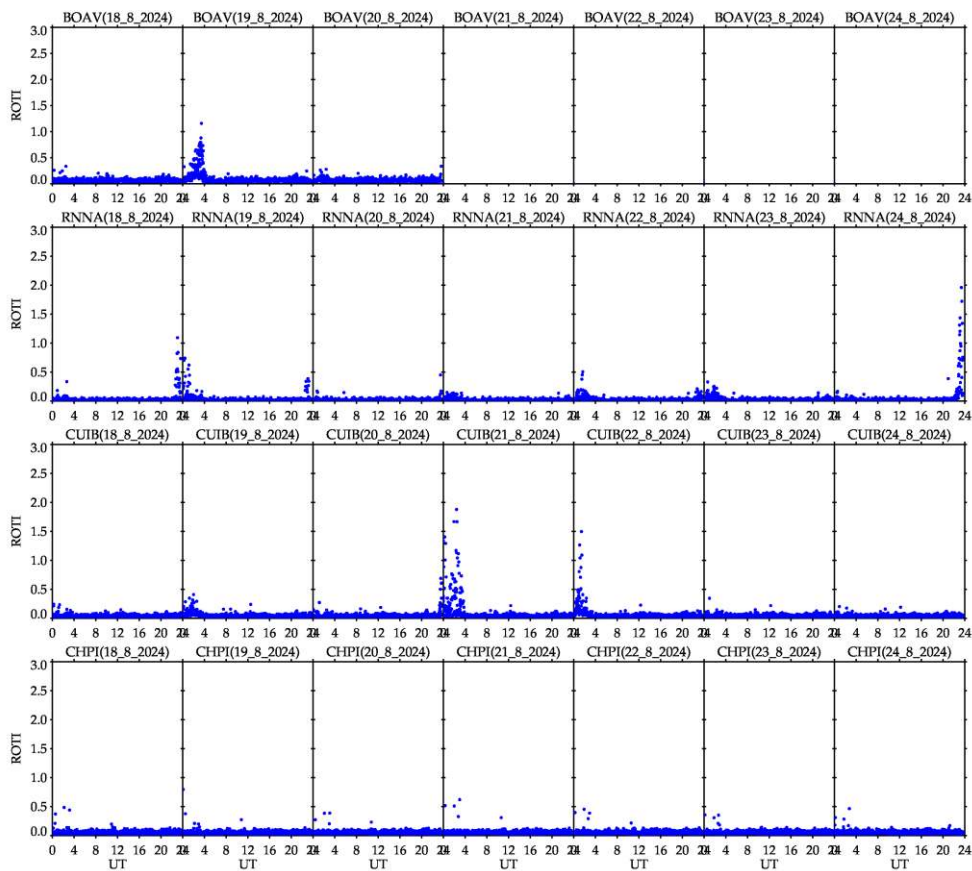
### Summary

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  $10^3$  particles/(cm<sup>2</sup> s sr) during the entire analyzed period, presenting a slight increase on August 21<sup>st</sup>, 24<sup>th</sup> and 25<sup>th</sup>.

## Ionosphere - ROTI Summary for Week 2328 (August 18 to 24, 2024)

Carolina de Sousa do Carmo

In the week 2328 (August 18 to 24, 2024), ionospheric irregularities (plasma bubbles), were observed on August 19 at Boa Vista and Natal. Also, there are irregularities on August 21 and 22 at Cuiabá, as shown in the Figure. 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 18 to 24, 2024.