SOL (Cecatto) - 2024, Feb. 19 – Feb. 26

Summary

02/19 – No M/X flare; No fast wind stream; 5 CME can have component toward the Earth;
02/20 – No M/X flare; No fast wind stream; 4 CME can have component toward the Earth;
02/21 – X1.8, M1.5 flares; No fast wind stream; 9 CME can have component toward the Earth;
02/22 – X1.7, M4.8, X6.3 flares; No fast wind stream; 6 CME can have component toward the Earth;
02/23 – M1.0, M1.4, M2.6 flares; No fast wind stream; 4 CME can have component toward the Earth;
02/24 – M4.5, M2.2, M3.6 flares; ; No fast wind stream; 5 CME can have component toward the Earth;
02/25 – M2.0 flare; Fast (=< 450 km/s) wind stream; 11 CME can have component toward the Earth;
02/26 – No M/X flare; Fast (=< 450 km/s) wind stream; 2 CME can have component toward the Earth
Prev.: Fast (=< 450 km/s) wind stream for today and next 1-2 days; for while low (70% M, 30% X) probability of M / X flares next 2 days; also, occasionally some other CME can present a component toward the Earth.

Resumo

19/02 – Sem "flare" M/X; Sem vento rápido; 9 CME podem ter uma componente para a Terra;
20/02 – Sem "flare" M/X; Sem vento rápido); 2 CME podem ter uma componente para a Terra *;
21/02 – "Flares" X1.8, M1.5; Sem vento rápido; 5 CME podem ter uma componente para a Terra;
22/02 – "Flares" X1.7, M4.8, X6.3; Sem vento rápido; 6 CME podem ter uma componente para a Terra *;
23/02 – "Flares" M1.0, M1.4, M2.6; Sem vento rápido; 11 CME podem ter uma componente para a Terra *;
24/02 – "Flares" M4.5, M2.2, M3.6; Sem vento rápido; 14 CME podem ter uma componente para a Terra;
25/02 – "Flare" M2.0; Vento rápido (< 450 km/s); 7 CME podem ter uma componente para a Terra;
26/02 – Sem "flare" M/X; Vento rápido (< 450 km/s); 3 CME podem ter uma componente para a Terra
Prev.: Vento rápido para hoje e próximos 1-2 dias; probabilidade de “flares” M/X (70% M, 30% X) nos próximos 02 dias; eventualmente alguma outra CME pode apresentar componente dirigida para a Terra.

Ionosfera – Digissonda (Laysa Resende)

Summary

We observed the F spread F in Fortaleza and Cachoeira Paulista every day during this week (Figure 1). The Es layers reached a maximum of scale 2 and 3 in Cachoeira Paulista and Fortaleza, respectively.

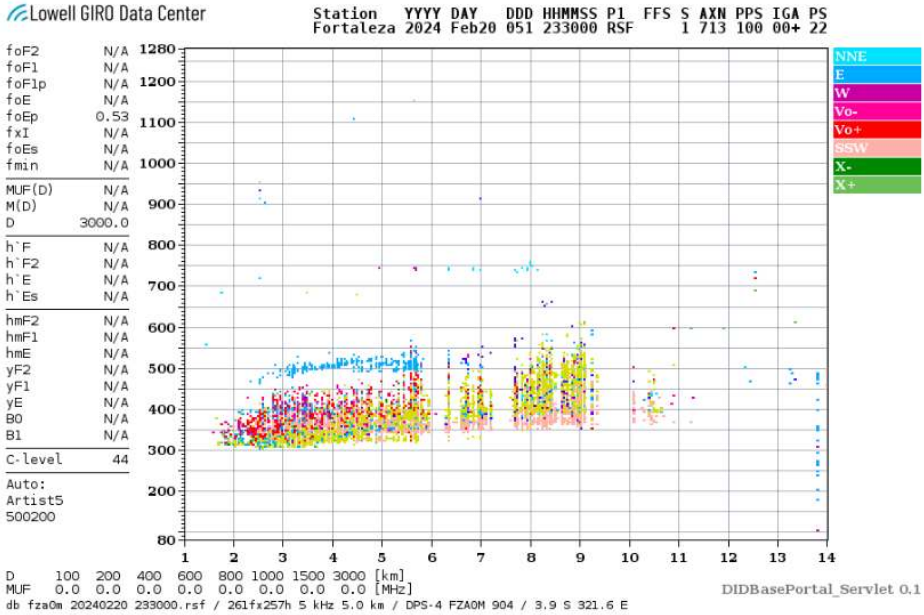

Figure 1 – Ionogram over Fortaleza, showing the spread F occurrence on February 20, 2024.

Ionosphere - ROTI
Summary for Week 2302 (February 18 to 24, 2024)

Carolina de Sousa do Carmo

In the week 2302 (February 18 to 24, 2024) there were ionospheric irregularities (plasma bubbles) on all nights analyzed. The Figure below shows the ROTI time series for four stations in the Brazilian sector (Natal (RNNA), Bacabal (MABB), Cuiabá (CUIB) and São José dos Campos (SJSP)).

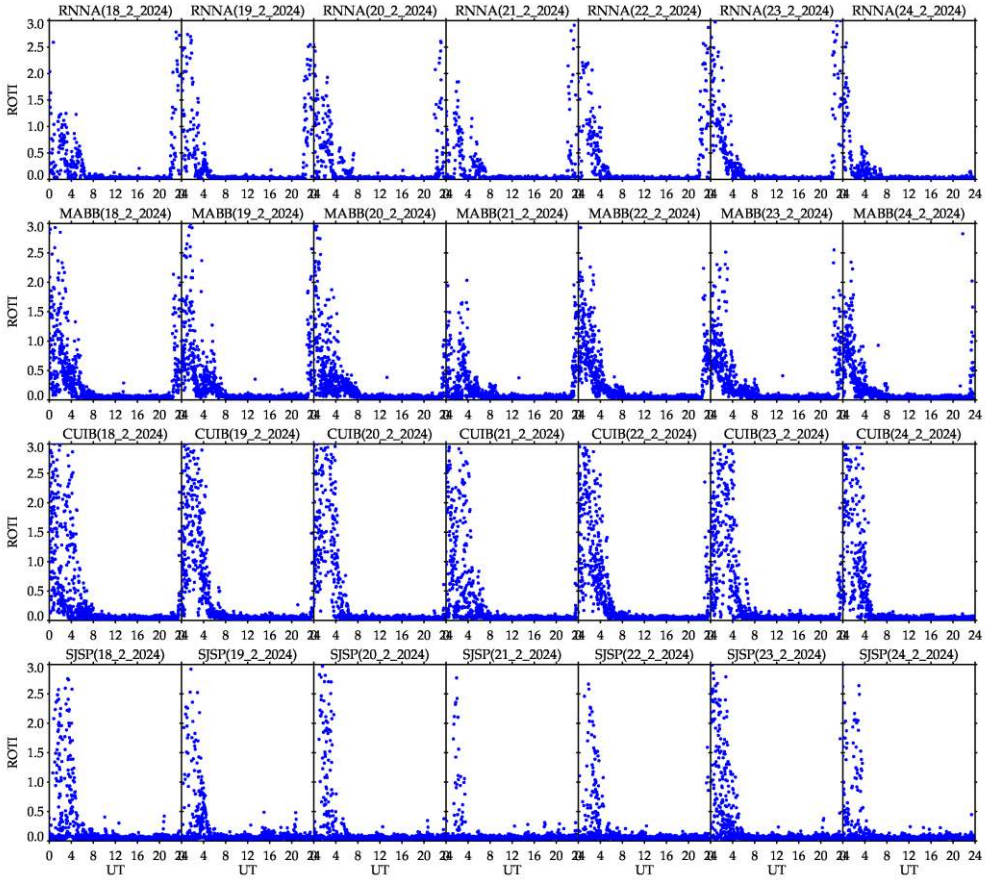

Figure – ROTI time series for four stations in the Brazilian sector (Natal (RNNA), Bacabal (MABB), Cuiabá (CUIB) and São José dos Campos (SJSP)), from February 18 to 24, 2024.