Sol – Cecatto
Period: Jun. 02 – Jun. 09, 2025

Summary

06/02 – M3.4, M1.2 flares; Fast (=< 900 km/s) wind stream; 4 CME can have component toward the Earth;
06/03 – M1.5 flare; Fast (=< 650 km/s) wind stream; 1 CME can have component toward the Earth;
06/04 – M1.1 flare; Fast (=< 800 km/s) wind stream; 1 CME can have component toward the Earth;
06/05 – No M/X flare; Fast (=< 750 km/s) wind stream; 4 CME can have component toward the Earth;
06/06 – No M/X flare; Fast (=< 550 km/s) wind stream; 2 CME can have component toward the Earth;
06/07 – No M/X flare; Fast (=< 450 km/s) wind stream; No CME can have component toward the Earth;
06/08 – No M/X flare; Fast (=< 450 km/s) wind stream; 3 CME can have component toward the Earth;
06/09 – No M/X flare; Fast (=< 550 km/s) wind stream; No CME can have component toward the Earth
For.: Fast wind stream for the next 1-2 days; for while (25% M, 05% X) probability of M / X flares next 2 days; also, occasionally some other CME can present a component toward the Earth.

Resumo

02/06 – "Flares" M3.4, M1.2; Vento rápido (=< 900 km/s); 4 CMEs podem ter componente p Terra;
03/06 – "Flare" M1.5; Vento rápido (=< 650 km/s); 1 CME com componente p/ Terra;
04/06 – "Flare" M1.1; Vento rápido (=< 800 km/s); 1 CME com componente p/ Terra;
05/06 – Sem "Flare" M/X; Vento rápido (=< 750 km/s); 4 CME podem ter componente p Terra;
06/06 – Sem "Flare" M/X; Vento rápido (=< 550 km/s); 2 CME podem componente p Terra;
07/06 – Sem "Flare" M/X; Vento rápido (=< 450 km/s); No CME com componente p Terra;
08/06 – Sem "Flare" M/X; Vento rápido (=< 450 km/s); 3 CME podem ter componente p/ a Terra;
09/06 – Sem "Flare" M/X; Vento rápido (=< 550 km/s); Sem CME com componente para a Terra
Prev.: Vento rápido para o(s) próximo(s) 1-2 dia(s); probabilidade de “flares” M/X (25% M, 05% X) nos próximos 02 dias; eventualmente alguma(s) outra(s) CME pode(m) apresentar componente dirigida para a Terra.

Interplanetary Medium – IM – Daniele da S. F. Medeiros and Paulo R. Jauer
Period: June 2nd to 9th.

Summary

Summary of IM conditions for the last week. The interplanetary medium region in the last week showed a low to moderate level of plasma disturbances due to the possible interaction of a combined solar wind structure identified by the DSCOVR satellite in the interplanetary medium.

- The magnitude of the interplanetary magnetic field component peaked on June 7th at 22:30 UT at +15.96 nT due to a combined solar wind structure.

- The BxBy components presented variations in the analyzed period, keeping both oscillating within the interval [-11, +12] nT. Showing a possible rotation of the By component due to a combined solar wind structure.

- The Bz component presents negative values for most of the week with a maximum negative -11.82 nT at 09:30 UT on June 2nd. It presented positive value of +11.01 nT on June 8th at 02:30 UT.

- The solar wind density maximum peaked on June 8th at 17:30 UT at 12.44 protons/cm^3.

- The solar wind speed fluctuated between 383 to 848 km/s with the presence of a discontinuity on June 4th at 20:30 UT.

- The magnetopause position remained above the equilibrium position throughout the week.

Figure 1 illustrates a set of parameters observed in the solar wind by the DSCVR satellite. The measured solar wind parameters can be identified in the following order starting in column 1: Interplanetary magnetic field modulus (IMF), the Bx and By components, Bz component, convection electric field Ey. Column 2: Solar wind density, speed, temperature and the last graph represents the position of the subsolar magnetopause.

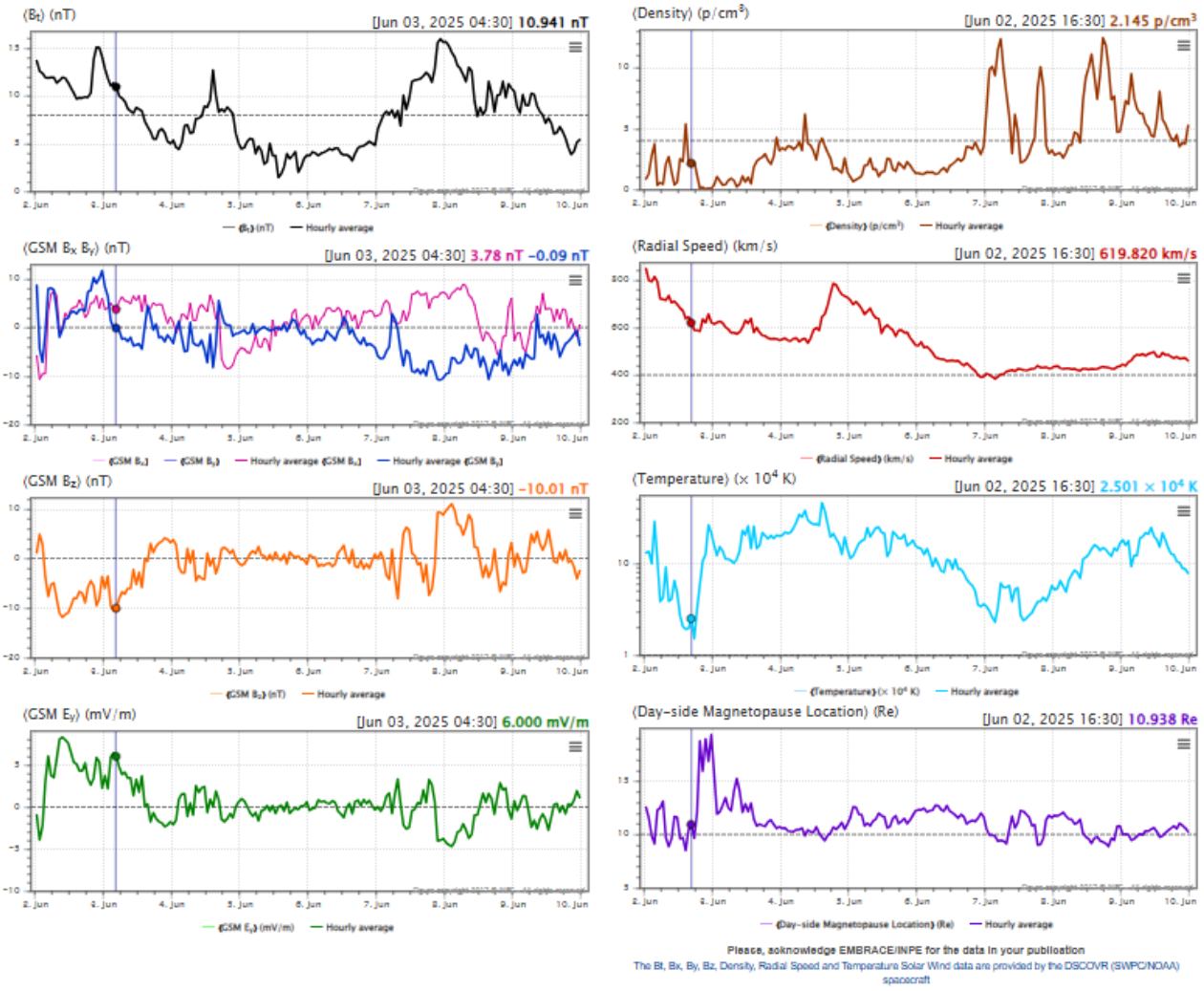

Figure 1: Illustrates a set of parameters observed in the solar wind by the DSCVR satellite.

Resumo

Durante toda a semana, a estação de Boa Vista registrou spread F de forma consistente, enquanto quase nenhuma ocorrência foi observada em Cachoeira Paulista. Em 08 de junho, o spread F apareceu em Cachoeira Paulista. A camada Es em Boa Vista atingiu escala 4 (Figura 1).

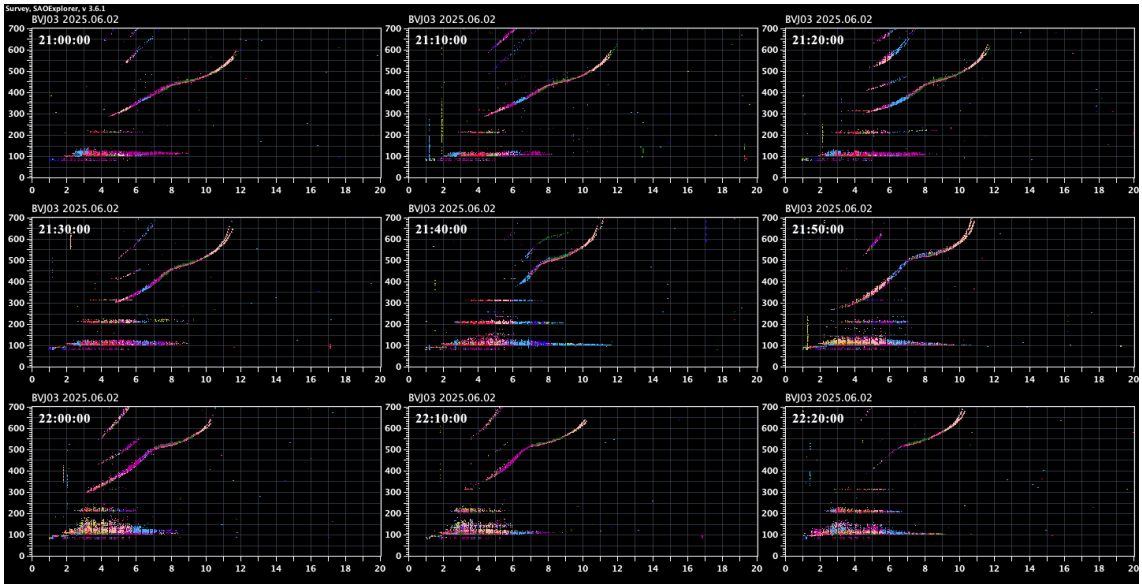

Figure 1 – Sequência de ionogramas de Boa Vista, mostrando a forte camada Es que ocorreu no dia 02 de junho de 2025.