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Turbulence in the near-Venusian space: Venus Express observations (doi: 10.26464/epp2020012)

Guest Editors: Jun Cui and Yong Wei

COVER

In Li SB and Lu HY et al. (10.26464/epp2020005), ion fluxes of O⁺, O₂⁺ and CO₂⁺ in the Martian meridian plane, resulting from a multi-fluid code in conjunction with a simplified photochemical scheme for four ionospheric species. Comparisons of numerical cases in the absence and presence of an ideal dipole-like crustal magnetic field on the southern hemisphere indicate that the crustal field has an inhibiting effect on the flux of ions escaping from Mars, which occurs primarily in the region between the terminator (SZA 90°) and the Sun–Mars line of the magnetotail (SZA 180°), partially around the terminator region. See pages 23–31.