

Solar Activity and Geomagnetic Indices forecast CLS Center

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CLS is operating a Solar and Geomagnetic Activity forecast Center, providing solar F10.7 flux and K indices predictions every day. Our main users are satellite orbit calculation centers. To improve our forecast service, we use new data and model results from CNES R&T studies: improvement of F10.7 cm solar flux forecast from the current day to 14 days using Swan/SOHO far side of the Sun data, improvement of Solar flares and CME (coronal mass ejection) probability prediction. We are developing collaborations with French laboratories to help service evolution and improvement. The service evaluation is regularly performed through Argos LEO satellite orbit calculation and through comparisons with other sources of forecasted and measured data.

CLS is also involved in the SWENET network and is responsible for a Pilot Project about ionospheric scintillations.