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# ICTP-SCOSTEP-ISWI Workshop on the Predictability of the Solar-Terrestrial Coupling - PRESTO | (smr 3898)

## Friday 02 June 2023

**SESSION 3. Effect of Space Weather on the Earth's ionosphere, thermosphere, and magnetosphere system - Budinich Lecture Hall (LB) (10:20-13:45)**

***SESSION 3 Organisers: Duggirala PALLAMRAJU (Physical Research Laboratory, India), Loren CHANG, and Nicholas PEDATELLA (National Center for Atmospheric Research, USA)***

***Chair: Nicholas PEDATELLA (National Center for Atmospheric Research, USA)***

| time  | title  | presenter             |
|-------|--|-----------------------|
| 10:20 | Towards a better understanding of the ionosphere-thermosphere responses to magnetospheric and wave forcings                    | XIAN LU               |
| 10:45 | Inference of Full Ionospheric Electron Density Profiles from Ionosonde Measurements  | JEAN DE DIEU NIBIGIRA |
| 11:00 | Observations of ionospheric irregularities and its correspondence with sporadic E occurrence over South Korea and Japan        | PATRICK MUNGUFENI     |
| 11:15 | Predictability of vTEC time series   | MASSIMO MATERASSI     |
| 11:30 | On the daytime precursors of the equatorial spread F   | PALLAM RAJU DUGGIRALA |
| 11:45 | Impact of Coronal Mass Ejection Induced Geomagnetic Storms on Satellite Orbital Decay  | YOSHITA BARUAH        |
| 12:00 | Machine Learning based ionospheric forecasting for space weather: comparisons and considerations for operative implementation. | MARIA GRACIELA MOLINA |
| 12:15 | Localized Geomagnetic Disturbance Forecasting: Evaluating Physics and Numerics in Global Models                                | ELIZABETH VANDEGRIFF  |
| 12:30 | Lunch Break  |                       |