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Modelling of the Equatorial coupled Ionosphere-Thermosphere system

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A time-dependent self-consistently coupled model of the Ionosphere and Thermosphere has been developed to understand the equatorial upper atmosphere. The model is made up of three codes with independent origins. A high- and mid-latitude ionospheric convection model was developed by Quegan et al. [1982]; a global thermospheric model was presented by Fuller-Rowell and Rees [1980; 1983] and was later evolved to the Coupled Thermosphere-Ionosphere Model (CTIM) by incorporating the ionospheric model. The low-latitude ionospheric code originated from the work by Watanabe [1995] has now been included into the low-latitude coverage of the CTIM.