

Space Studies of the Upper Atmospheres of the Earth and Planets including Reference Atmospheres (C)
Multi-Scale Wave Coupling and Energetics from the Troposphere to the Ionosphere (C22)
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MONTHLY PROFILES OF AIRGLOW EMISSIONS (OI 557.7 AND OI 630 NM) AT THE SOUTH REGION OF BRAZIL

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Since 2001, airglow emissions of OI 630.0 nm and OI 557.7 nm have been constantly monitored at INPE's Southern Space Observatory – SSO/CRS/INPE-MCT, São Martinho da Serra, South of Brazil (29° S, 53° W). A photometer to monitor the zenith intensity has been used in the data acquisition. The data were normalized to obtain the different monthly profiles. An average with the respective standard deviations of least 3 days per month were correlated with the average of others years and used in the calculation of the monthly profiles. In terms of OI 630nm emissions, from October to February typical oscillations with presence of inflexions were observed, while from March to September tendencies of exponential decays were registered. Besides, from April to September an increase in the emission intensity was visualized. However, from October to February an opposite comportment was reported. For the OI 557.7nm emissions, from April to September the emission profiles show an intensity increase along the monitoring. From October to February the emissions profile revealed a constant variability.