

## **Ionospheric Plasma Bubbles observed at 29 degree south**

H. O. Goulart (1,2), E. A. Grellmann (1,2), C. M. Wrasse (3), K. Makita (4), H. Takahashi (3) and N. J. Schuch (1).

(1) Centro Regional Sul de Pesquisas Espaciais, Santa Maria, Brazil,(2)Universidade Federal de Santa Maria, Santa Maria, Brazil, (3) Instituto Nacional de Pesquisas Espaciais, São José dos Campos, Brazil, (4) Takushoku University, Tokyo, Japan.

(hog@lacesm.ufsm.br / Fax: +55 55 32208007)

Ionospheric plasma bubbles have been observed by airglow OI6300 imaging technique at the Southern Space Observatory, San Martino da Serra (29 S, 54 W), Brazil, since 2004. The bubbles (plasma depletion along the magnetic field line) are frequently observed in a period from September to March, during the southern spring equinox to autumn equinox seasons. The frequency of occurrence, average of eight bubbles for the period, and its seasonal dependency are presented and compared to the observations of other locations.