

Some effects of Space Weather in a 4GHz communication satellite link over the Brazilian Region

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Soares, A.

This work concerns a study of some effects of Space Weather in a C-band Satellite Link between Rio de Janeiro (22o57'S, 43o11'W) and Vitoria (20o10SS, 40o10SW), in the SouthEast of Brazil, from October 2000 to nowadays. An automatic acquisition system was developed to register the spectrum of the used frequencies and, since January 2002, this system has also registered the data corruption over a known information embedded in the link. As a result of this monitoring now we can know some useful things about the interference caused by geophysical phenomena like Plasma Bubbles.

Publication:

34th COSPAR Scientific Assembly, The Second World Space Congress, held 10-19 October, 2002 in Houston, TX, USA., meeting abstract, id.1437

Pub Date:

2002

Bibcode:

2002cosp...34E1437S



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