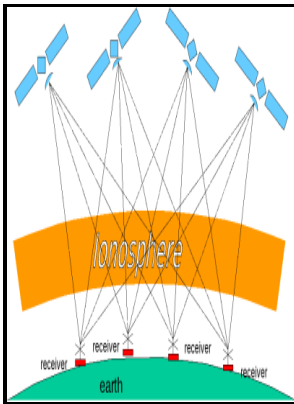


Ionospheric tomography

Springer - GPS ionospheric tomography: A comparison with the IRI



Description: -

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Tomography -- Scientific applications

Ionosphere -- Remote sensing Ionospheric tomography

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Physics of earth and space environments Ionospheric tomography

Notes: Includes bibliographical references (p. [242]-255) and index.

This edition was published in 2003



Filesize: 29.72 MB

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SGO Ionospheric tomography

The goal is to determine the best representing basis function from the set of Squeezed Legendre polynomials, truncated Legendre polynomials, Haar Wavelets and singular value decomposition SVD.

Ionospheric Tomography

Ionospheric Tomography SGO tomography chain: A chain of five satellite receivers observed signals from the Russian Low Earth Orbit LEO satellites. Tereshchenko Series Title Copyright 2003 Publisher Springer-Verlag Berlin Heidelberg Copyright Holder Springer-Verlag Berlin Heidelberg eBook ISBN 978-3-662-05221-1 DOI 10. In practice, the available TEC data are inevitably sparse and incomplete and this imposes certain limitations on the reconstructed images.

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However, due to the slow-moving ground tracks and high elevation angle of GPS satellite, the spatial distribution of GPS-TEC observation data is not enough to reconstruct the three-dimensional electron density structure if the ground-based receivers are sparse. These are often referred to as the Halloween Storms of 2003.

SGO Ionospheric Tomography Description

Earth Planet Sp 59, 287—292 2007. Finally, the paper is concluded with a short review of experimental work that has been reported in the literature to date. The disturbances to the high-latitude regions set off several large-scale travelling ionospheric disturbances LSTIDs, wave-like perturbations in the ionospheric electron density.

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LSTIDs are wave-like perturbations in the ionospheric electron density, with typical wavelengths over 1000 km and periods between 0. Kamei, Geomagnetic AE index, , 2015.

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