

Física de la Tierra

ISSN: 0214-4557

Vol. 20

2008

LA IONOSFERA Y SU INFLUENCIA EN EL POSICIONAMIENTO Y LA NAVEGACIÓN SATELITAL

Contents

	Pages
<i>Foreword</i> F. GONZÁLEZ	7
<i>Scientific Editors Note</i> M. HERRAIZ SARACHAGA and B.A. DE LA MORENA CARRETERO	9-10
1. <i>Ionospheric Impact on GNSS Signals</i> N. JAKOWSKI, CH. MAYER, V. WILKEN and M.M. HOQUE	11-25
2. <i>Ionospheric Models for GNSS Single Frequency Range Delay Corrections</i> S.M. RADICELLA, B. NAVA and P. COÏSSON	27-39
3. <i>Applications of Vertical Incidence Sounding and GPS measurements to Ionospheric Research</i> G. MIRÓ AMARANTE, K. ALAZO, L. CIRAIOLO and S.M. RADICELLA	41-59
4. <i>Low-latitude Ionosphere: Effects on Satellite Signals Received at Tucuman</i> R.G. EZQUER and S.M. RADICELLA	61-81
5. <i>SBAS Type Ionospheric Correction and Integrity Assessment Experiment in Central and South American Region</i> C. BRUNINI and FCO. AZPILICUETA	83-98
6. <i>Plasma Bubbles Detection in the African Equatorial Ionosphere</i> A. PORTILLO, M. HERRAIZ and S.M. RADICELLA	99-113
7. <i>Response of the Mid-Latitude Ionosphere to Strong Geomagnetic Storms</i> D. ALTADILL, E. BLANCH and V. PAZNUKHOV	115-132
8. <i>A Method to Estimate the Ionospheric Bias by Using the New GNSS Frequencies: an Analysis of its Theoretical Accuracy in a PPP Context</i> M.C. DE LACY, A.J. GIL, G. RODRÍGUEZ-CADEROT and B. MORENO	133-150
9. <i>MSTID Detection, Characterization and Modelling: A Key Point to Improve the Precise GNSS Navigation</i> M. HERNÁNDEZ-PAJARES, J.M. JUAN, J. SANZ and A. ARAGÓN-ÁNGEL	151-165

Contents

10. *A Neuro-Fuzzy Modelling-Based Short-Term foF2 Prediction Method for its Application in High Precision Satellite Communications Systems* 167-182
J.M. CORDOBA, D. MARÍN, J.M. ANDÚJAR, I. BLANCO and B.A. DE LA MORENA
11. *Ionospheric Scintillation and its Impact on Spatial Communications Test Campaign* 183-197
I. RUIZ GÓMEZ, J.A. RUIZ DEL ÁRBOL, B. DE LA MORENA and F. MACIÁ
12. *LISN: a Network for Nowcasting and Forecasting of the South American Ionosphere* 199-213
C.E. VALLADARES and J. VILLALOBOS