Title:

The Ionospheric Products of Taiwan/TriG Radio Occultation Process System (TROPS)

Author(s):

Wen-Hao Yeh¹, Cheng -Yung Huang¹, Tzu-Pang Tseng², Kun-Lin Chen¹, Hsu-Hui Ho³, Jing-Mei Wu⁴, Chih-Chen Hsu³, Jyun-Ying Huang³, and Hsiu-Wen Li⁴

¹ National Space Organization (NSPO), Taiwan
² Cooperative Research Centre for Spatial Information, Australia
³ Taiwan Analysis Center for COSMIC (TACC), Taiwan
⁴ GPS Science and Application Research Center (GPSARC), National Central University, Taiwan

Abstract:

Taiwan/TriG Radio Occultation Process System (TROPS) is a process system in cluding the retrieval procedure and user interface, which is developing by National Space Organization (NSPO), GPS Science and Application Research Center (GPSARC), and Taiwan Analysis Center for COSMIC (TACC). TROPS is developing for the data analysis of FORMOSAT-7/COSMIC-2 (F-7/C-2) mission, which will have the first launch 6 LEO satellites in 2018. In this study, the ionospheric data of FORMOSAT-3/COSMIC (F-3/C) mission is used for TROPS calibration. In ionospheric retrieval procedure of TROPS, the ionospheric parameters profiles, which including the electron density and the absolute total electron content profiles, are retrieved from RO observation. The retrieval methods and processes are introduced in this poster.