

Aug 14, 2023

Version 2

Detection of Equatorial Plasma Bubbles V.2

DOI

<https://dx.doi.org/10.17504/protocols.io.rm7vzbb12vx1/v2>

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Protocol Citation: Swapna Raghunath 2023. Detection of Equatorial Plasma Bubbles. [protocols.io](https://dx.doi.org/10.17504/protocols.io.rm7vzbb12vx1/v2)
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Protocol status: Working

We use this protocol and it's working

Created: August 13, 2023

Last Modified: August 14, 2023

Protocol Integer ID: 86419

Keywords: equatorial plasma bubbles slant total electron content value, equatorial plasma bubbles in the ionosphere, equatorial plasma bubble, ionosphere, plasma, global navigation satellite system

Abstract

Slant Total Electron Content values from Global Navigation Satellite System are used to detect the Equatorial Plasma Bubbles in the Ionosphere.

Attachments



MATLAB Code for dete...

29KB



- 1 Download GPS data from SOPAC website in RINEX format
- 2 Data is converted from RINEX to .cmn format using GPS TEC software
- 3 Calculate ROT and ROTI
- 4 Difference between Evening ROTI and Day time ROTI is calculated
- 5 If the difference exceeds 0.05, then Equatorial Plasma Bubble is Detected