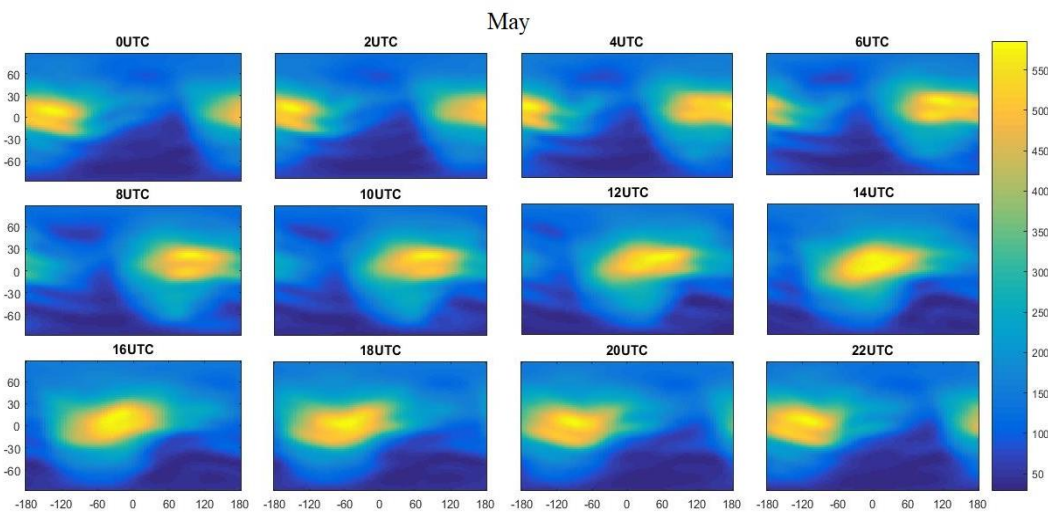
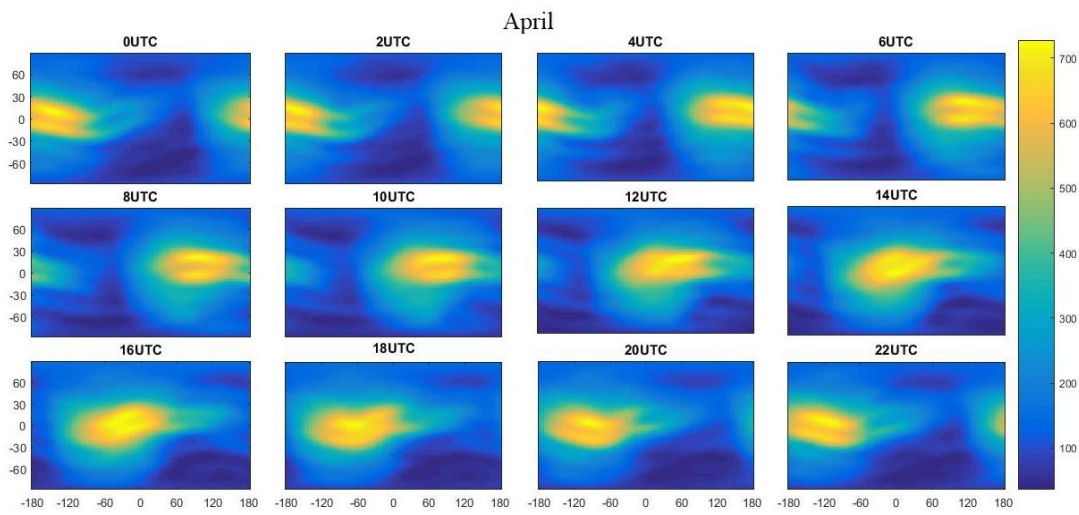
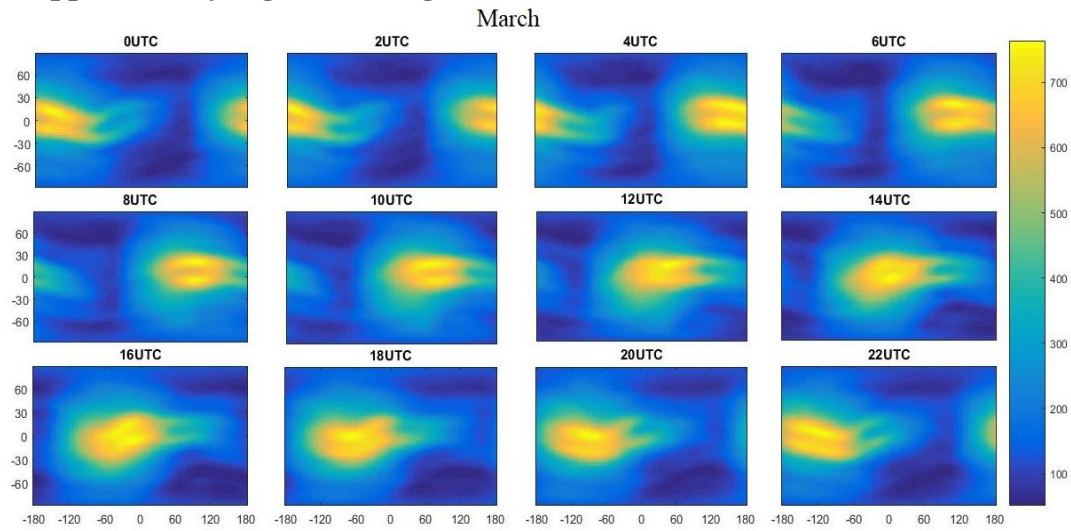
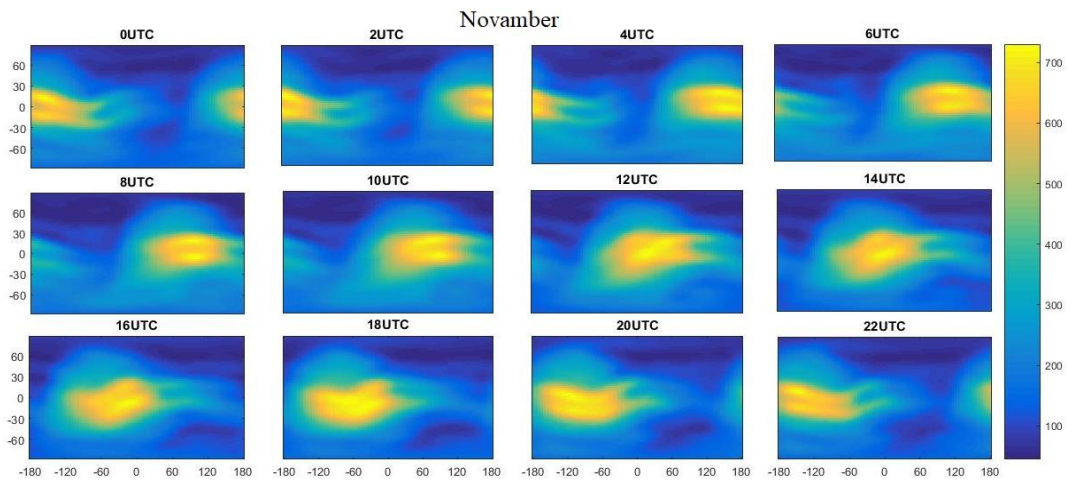
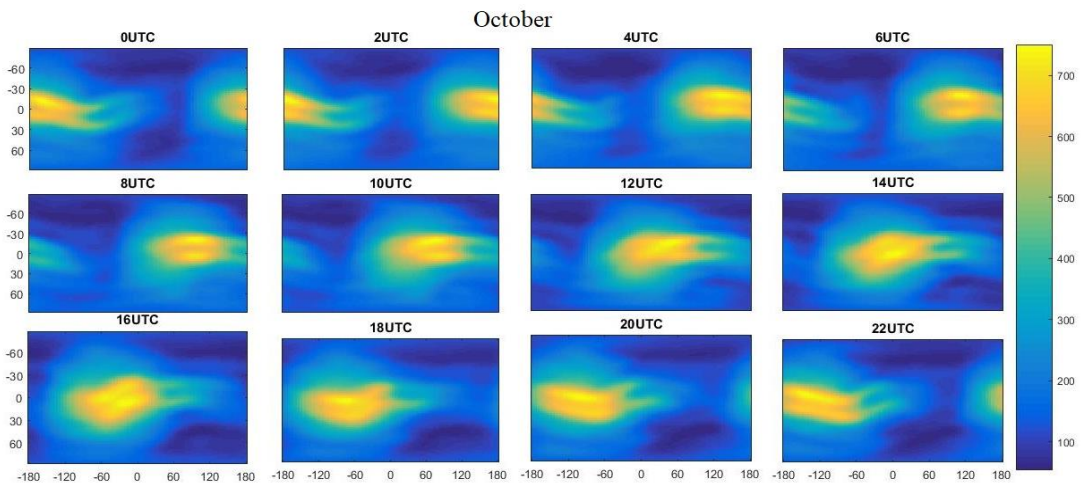
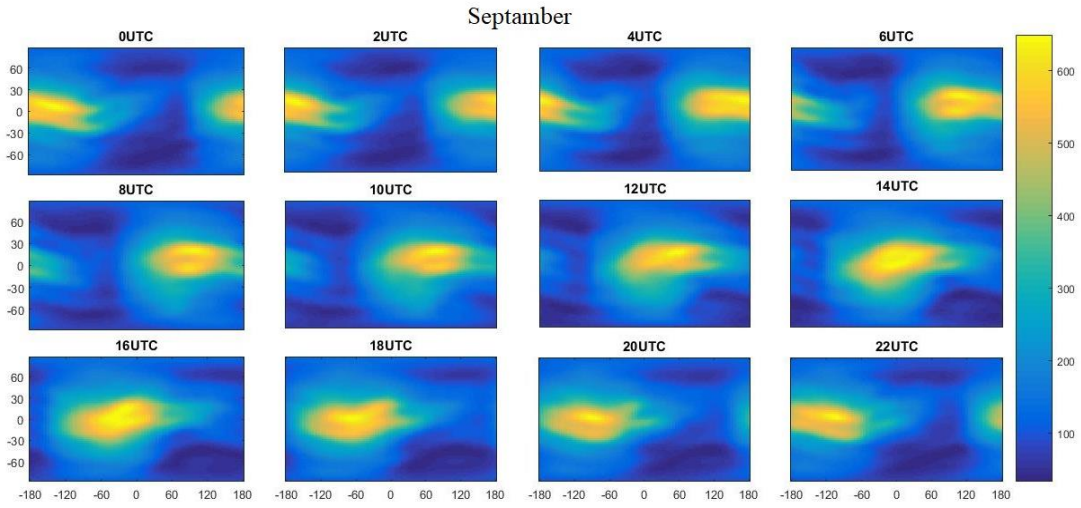
**Supporting Information for**

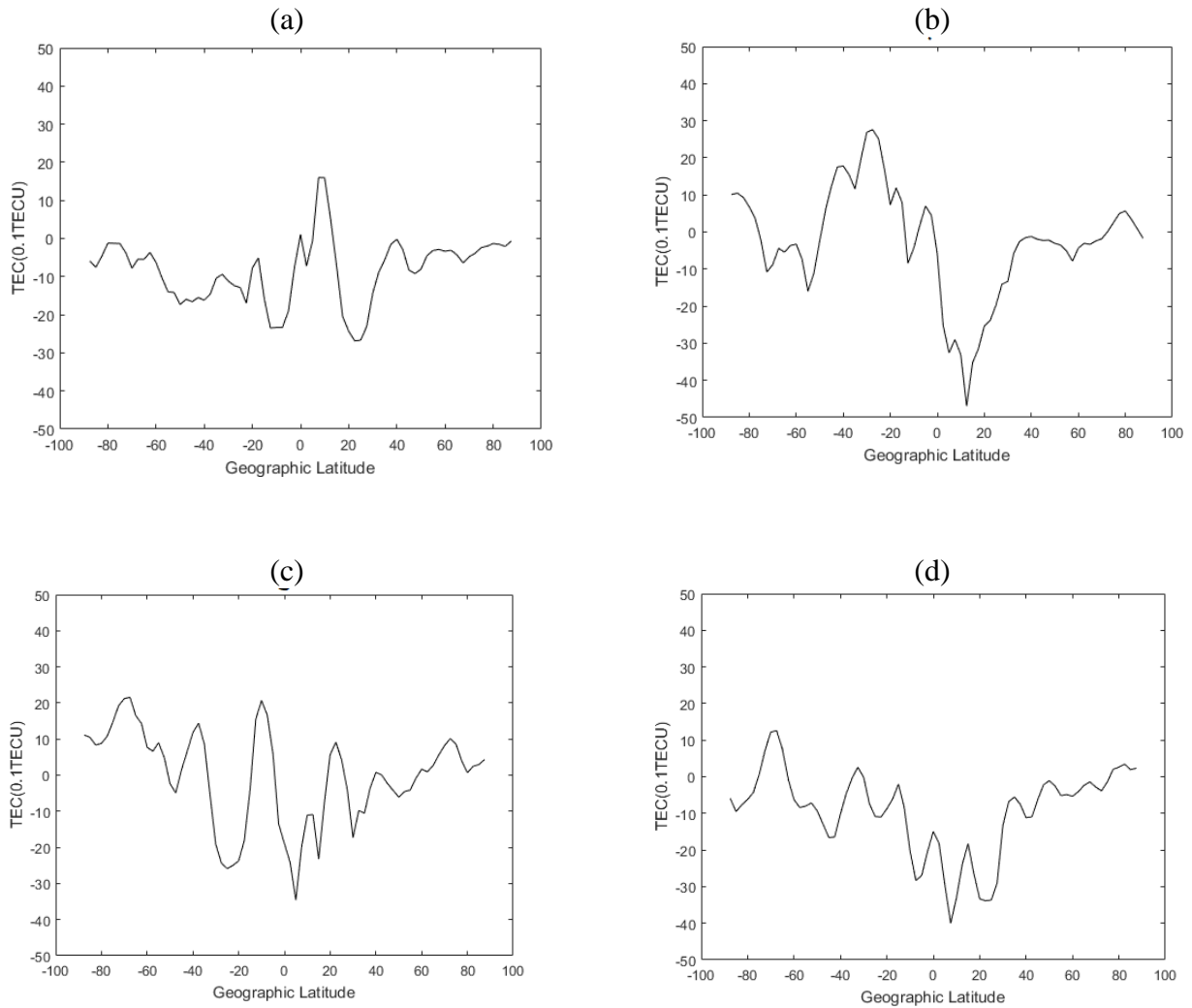
**"Latitude Oscillations of Zonal Mean Total Electron Content and Super-Fountain Effects Provided from Global GNSS Stations"**

**M. Joghataei[1], N. Jooyandeh[1] and M. H. Memarian[1]**

1- Department of Physics, Yazd University, Yazd, Iran

Contents
1. supplementary Figures for Figure.1 and 2
2. supplementary figures for Figure. 6 &7

# 1. supplementary Figures for Figure.1 & 2

**S1.** Hourly-monthly means of TEC for the months of March-May during 1999-2019

**S2**. Hourly-monthly means of TEC for the months of September-November during 1999-2019.

**2. supplementary figures for Figure. 6 &7**

**S3.** The super-fountain effect on zonal mean TEC (0.1 TECU) during geomagnetic storm a) 8 January, b) 9 January c) 10 January and d) 11 January of 2009.