VARIATION OF TOTAL ELECTRON CONTENT (TEC) DURING DAY TIME AND NIGHT TIME

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ABSTRACT

The ionosphere over Malaysia is unique because of its location near the equator line. Equatorial over a world are directly receive more sun radiation or ultra violet. The purpose of this project is about to study Total Electron Content (TEC) based on different time to evaluate the variation of TEC during day time and night time. The research of TEC is based on varies of data GPS from GPS receiver station Universiti Sains Malaysia(Penang), Politeknik Ungku Omar(Ipoh) and Universiti Teknologi Mara (Arau). Normally for every difference time the ionosphere will give difference value of electron. Recent studies parameter of ionosphere will change due to solar activity [1]. The sun releases electromagnetic radiation, which is absorbed by the atmosphere around the earth. This radiation has the potential to disturb or ionize the ionosphere, the outer most layer of the atmosphere, and this then affects radio waves, including VLF waves, that are reflected by the ionosphere [16].

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