

Ionospheric disturbances induced by tsunami of Sumatra earthquake

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We report some characteristics of ionospheric disturbances induced by tsunami of Sumatra earthquake on December 26, 2004. We have analyzed GPS data obtained from COCONA (IGS) to investigate TEC variations comparing with ray tracing result of waves in neutral atmosphere. In COCONA (Lat.-12:07, Lon.96:53), arrival time of tsunami was 3:20(UT), TEC enhancement started about 3:10(UT) with 10 minutes periods detected only east and west direction. For ray tracing result with model calculation, gravity waves induced by tsunami reached ionosphere much later. We will discuss the time difference between TEC enhancement and model calculation.