



Study of cyclone effect in Kamchatka on electron distribution in the ionosphere by satellite tomography in the conditions of low seismicity

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The paper presents the results of investigation of cyclone possible effect on ionosphere parameters. Monitoring of ionosphere state has been carried out by automatic sounding applying low orbital navigational spacecrafts in the conditions of low seismicity. Receiving stations were locating in meridian direction of Kamchatka peninsular in Paratunka, Mil'kovo and Esso villages. It has been shown that during night time cyclone passage (according to local time) on 18.01, 03.02 and 17.02 2013 over Kamchatka, synchronous increase of electron concentration occurred in the region over its epicenter in comparison to the next days without cyclones. With the increase of the latitude, i.e. further from the center of the cyclone, electron concentration decreased in comparison to calm days. The work has been realized within the FEB RAS special-purpose program "Satellite monitoring of the Far East for fundamental researches of FEB RAS" and the project on RAS Presidium Program RAS #12-1-P22-01.