## ВОЗМОЖНОСТИ ПРОГНОЗА СИЛЬНЫХ ЗЕМЛЕТРЯСЕНИЙ

## FORECASTING OF LARGE EARTHQUAKES BASED ON RADON MONITORING IN THE PETROPAVLOVSK-KAMCHATSKY GEODYNAMICAL TESTING AREA

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The paper presents the results from monitoring of soil radon in loose deposits within a network of observational sites in Petropavlovsk-Kamchatskiy geodynamical testing area. The paper describes the basic of radon technique for a short-term forecast of large earthquakes of M>5.5 for southern Kamchatka. The monitoring of seasonal component in volumetric radon activity in the saturation zone for the period 2000-2003 at Paratunka site allowed us to suggest the medium-term forecast of a M>7.5 earthquake for the 2014 autumn-winter period in southern Kamchatka and the Northern Kuriles.

Keywords: Kamchatka, soil radon, seismicity, the forecast of earthquake.