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Magnetic registrations during the Tungus event.

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The Tungus event was associated with the solar eclipse on June 28, 1908, since Pc5 geomagnetic pulsations in Kiel on June 27-30, 1908 [1] were symmetrical with respect to the eclipse time. They began three days before the Tungus explosion and ended ~15 min. after it and, thus, had the correlation with the Tungus event. Since huge solar spots/eruptions were observed 27-30 June, the 3-m. pulsations' period in Kiel could be caused by resonance with the 'acoustic halo' of Sun's global earthquakes, having a 5-7 mHz frequency, i.e. 3-min period [2]. Resonance with them on the Earth arises due to the effect of the Sun's IMF on the geomagnetic field [3]. In the first two days (June 27-28, 1908), the registration beginning in Kiel at 18 LT coincided with: (1) the IMF's local peak uncompensated tangential component [4], (2) the maximum of solar wind plasma density in the Earth's plasmasphere [5], (3) the maximum of the thermal diurnal *S_I* tide [6]. Many earthquakes began at 18 LT, with precursors lasting ~7 h. [7], what conforms to records in Kiel from the Tunguska area [1].

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