

Occurrence study of long distance propagated hybrid tweek wave

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The authors studied the occurrence and generation mechanism of anomalous long distance propagated hybrid tweek atmospheric waves by means of the data obtained at Awara Space EM Research Lab. of Fukui Univ. of Tech. By the analyzed data of FFT real-time spectrum analyzer, we estimated the propagation distance of hybrid tweek waves were approximately between 3000km to 6700km, and the signal source area was spreaded around Borneo, Indonesia and central Australia which located the zero dip angle area of geomagnetic flux. Also we found the occurrence characteristics have affected to the Solar X-ray activity.