

## IONOSPHERE STATE ABOVE TSUNAMI

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**Abstract.** A brief review of the research results in impact of the tsunami on the lower and upper ionosphere is presented. It was shown that this action caused by tsunami-driven atmospheric internal gravity waves, which propagate to the ionosphere. The action of the atmospheric waves upon the ionosphere is accompanied by their dissipation and momentum transfer due to rather large ion-neutral collision frequency and plasma magnetization leading to the neutral particle redistribution and observed electron density, and airglow variations. These disturbances can be detected with GPS satellites and using VLF probing. Tsunami-driven atmospheric gravity waves due to radiation condition can propagate ahead of tsunami and this circumstance may be used in the tsunami warning system.

**Keywords:** ionosphere, tsunami, internal gravity waves.