

Tonga's volcano eruption signals measured by the environmental monitoring systems of KAGRA Observatory

On January 15, 2022, at 04:14:45 (UTC), the undersea volcano of Hunga Tonga-Funga Ha'apai erupted and caused global seismic, atmospheric, and electromagnetic waves. They were transmitted to Kamioka, more than 8000 km away, and were observed by environmental sensors not only on the ground but also inside KAGRA's underground facility. In this talk, these signals measured by KAGRA's environmental monitors and the transfer functions from the air-pressure wave in the atmosphere to the underground environmental disturbances (e.g., air-pressure, seismic motion) will be reported.

Primary author: WASHIMI, Tatsuki (NAOJ)

Session Classification: Poster session III

Track Classification: Missing issues for low frequencies