

## Observation of UHF Television Broadcasting Waves over the Japan Sea

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The terrestrial digital TV broadcasting of starting in May 2006 in the Ishikawa prefecture use the same frequency band between 470 MHz and 770 MHz as the UHF conventional analog TV broadcasting. In order to investigate radio waves in this frequency band, we had observed wave intensities at the Ishikawa National College of Technology from May 2005 to August 2005 in the previous period. The west side of this place faces the Japan Sea, and the other side faces mountain. So, the directive antennas measured the radio waves over the Japan Sea from the San'in region of Japan, or South Korea. As a result, the antennas sometimes measured the broadcasting waves of both 30 and 34 channels of the UHF analog TV broadcasting. These waves had been received over one day for several cases. There is a TV broadcast station transmitter use 30 channel and 34 channel in Matsue, Shimane Prefecture that is 350km away across Japan Sea. We think that these two waves were transmitted from there. And now, we have observed the wave intensities in the same UHF band since May 2007, after the terrestrial digital TV broadcastings, again. We will present annual characteristics of the UHF broadcasting waves over the Japan Sea including digital broadcasting waves.