

Hydrophones

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[Instrument Point People](#)

Ocean Sonics Hydrophones

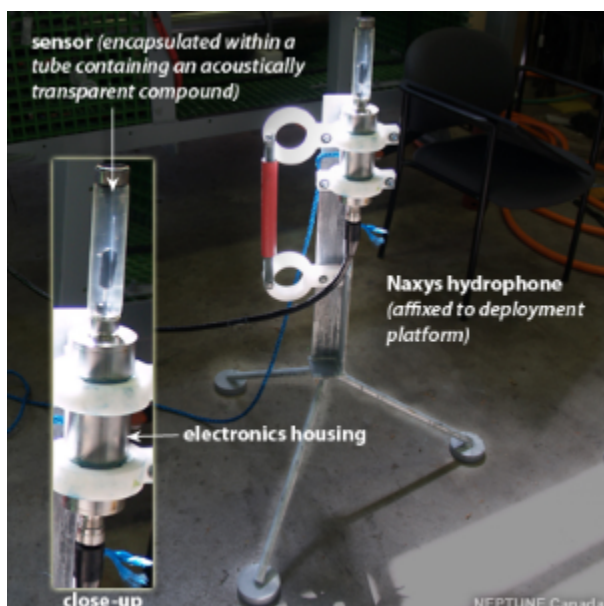
Ocean Sonics instruments produce high quality recordings, and are designed to be simpler to use than traditional analog hydrophones. Ocean Sonics hydrophones include high Frequency (10 to 200, 000 Hz) and low Frequency (0.1 to 1600 Hz) models. These hydrophones process data while it is being collected and produce calibrated waveforms. Ocean Sonics hydrophones in titanium housings can be deployed to 3500m depth.



(Above: Click the pictures to enlarge.)

Naxys Hydrophones

The Naxys hydrophone sensor element is encased within an acoustically transparent compound, allowing omni-directional detection of audio signals at frequency ranges between 5Hz and 300kHz. Signals are processed in 16-bit resolution. These instruments are pressure-rated to 3000m.



Scientific Applications

Hydrophone data are used to monitor whale populations. The hydrophones are able to detect vocalizations used to study the season shifts in cetacean populations. Whale songs are detectable from 10s to 100s of kilometers away from the source. Species (such as orcas) and sub-populations (such as resident, transient or offshore orcas) are identified by their unique calls. (NEPTUNE Canada: An Invitation to Science).

Listen to the Deep (LIDO)

Acoustic readings from hydrophones have been analyzed and incorporated into the [Listen to the Deep](#) website. The 'LIDO' website was developed by researchers at Spain's Technical University of Catalonia and analyzes hydrophone data from many networks around the world. The LIDO research aims to understand organisms responses to anthropogenic sound sources and informs on long-term management of noise pollution in the oceans (NEPTUNE Canada: An Invitation to Science, 2012).

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