

## 2 MHz Channel - ASL's Latest Addition to the Acoustic Zooplankton Fish Profiler™ Product

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With its selection for inclusion in the US Ocean Observatories Initiative (OOI) in 2014, the Acoustic Zooplankton Fish Profiler™ (AZFP) is rapidly becoming the global standard for autonomous scientific multi-frequency echosounders.

ASL has now added a 2MHz channel to its product, which already includes 38, 70, 125, 200, 455 and 769 kHz. This new high-frequency, short-range channel is aimed at studies involving sediment and small zooplankton. The cabled single frequency 2 MHz transducer is shown in figure 1. The nominal beam angle of 7 degrees at -3dB matches the other high frequency AZFP channels, ideal for multiple-frequency studies. The acoustic performance of the new channel is shown in the AZFP brochure available here: [www.aslenv.com/brochures/AZFP\\_2.pdf](http://www.aslenv.com/brochures/AZFP_2.pdf)

The AZFP is a powerful tool for scientific research and environmental monitoring in oceans, lakes, and rivers. The ASL AZFP offers an economical way of obtaining reliable measures of marine environmental conditions in the water column. Using onboard data storage, the AZFP can collect data continuously for periods of up to one year at high temporal and spatial resolution and is available with up to four frequencies. It can be operated in bottom-mounted, upward looking mode, on a glider, or in downward looking mode from a buoy, and is ideally suited for taut-line mooring operation, but many other options are available. The AZFP has highly configurable sampling programs.



**Figure 1:** 2 MHz single-frequency transducer