

FOR IMMEDIATE RELEASE

The University of Alaska, Fairbanks Acquiring New Customized Teledyne G3 Glider *Teledyne G3 Glider Will Investigate Environmental Issues in the Bering Sea*

Alaska, U.S. April 5, 2023 - Teledyne Marine is pleased to announce a new customized Teledyne Webb G3 Glider order for the University of Alaska Fairbanks, Institute of Marine Science. The new glider is being purpose-built to investigate several environmental issues in the Bering Sea, including documenting the migratory pathways and habitat utilization of the endangered North Pacific Right Whale. A three-channel optical fluorometer and a dissolved oxygen sensor will be added to the standard suite of sensors. The new Teledyne Webb G3 glider will also be equipped with a passive acoustic hydrophone called the DMON, designed by Dr. Mark Baumgartner at Woods Hole Oceanographic Institute. This will help research scientists at the University of Alaska, Fairbanks, like Hank Statscewich, better understand the whales' response to climate change and the risks posed by anthropogenic activities in the subarctic.

This glider will also be outfitted with a Vemco receiver to pick up transmissions from tagged Bering Sea King and Tanner crabs. The Bering Sea crab fishery is experiencing an unprecedented crash right now, and the Alaska Department of Fish and Game, along with NOAA fisheries, are working to ascertain potential reasons for the absence of these animals in their trawl surveys. The addition of glider-based surveys will open many doors for this promising technology.

The gliders will utilize the Simrad WBT echosounder's active acoustics to quantify acoustic backscatter and an instrument called a Shadowgraph manufactured by Williamson and Associates (WASSOC) to collect images of the scattering creatures. They will deploy a combination of Machine Learning and Automated Intelligence feature recognition software onboard the glider to perform real-time target identification. This cutting-edge environmental sampling capability will provide a multi-trophic level in situ marine ecosystem monitoring to support NOAA's fisheries management goals.





“We are building a consortium of scientists from the University of Alaska, Fairbanks, NOAA Pacific Marine Environmental Lab, Alaska Fisheries Science Center, and the University of Washington to add transformative new sensing capability to the Slocum platform. It should be exciting!” - Hank Statscewich, Research Scientist, University of Alaska, Fairbanks.

About Teledyne Marine:

Teledyne Marine is a group of leading-edge technology companies that are part of Teledyne Technologies Incorporated. Through acquisitions and collaboration, Teledyne Marine has evolved into an industry powerhouse, bringing Imaging, Instruments, Interconnect, Seismic, and Vehicle technology to provide solutions to our customers. www.teledynemarine.com

About The University of Alaska, Fairbanks, Institute of Marine Science:

MS has the most significant combined expertise and knowledge of any research group regarding the oceanography, marine biology, and fisheries of the Gulf of Alaska and the Bering, Chukchi, and Beaufort Seas. Over the past few decades, IMS has maintained ongoing field research activities in all four marginal seas surrounding Alaska. The institute’s experience is unrivaled in successfully carrying out year-round observation programs and hypothesis-driven research in high-latitude systems. uaf.edu

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