

# Ocean Alliance Announces First-Ever Successful Drone-Based Tagging of Endangered Blue and Fin Whales

## *SnotBot® Goes Tagging*

GLOUCESTER, MA, USA, April 19, 2023 /EINPresswire.com/ -- For the first time ever, Ocean Alliance and their collaborators have successfully deployed suction cup data-tags on blue and fin whales in the Gulf of California using a drone (UAV). This new method of deploying tags is detailed in an April 2023 publication in the journal Royal Society Open Science and could have significant positive implications for whale science and conservation.

Deployment of Biologging Tags on Free Swimming Large Whales using Uncrewed Aerial Systems. R. Soc. open sci. April 19, 2023

<https://dx.doi.org/10.1098/rsos.221376>



Close up of a UAV tag Deployment on a blue whale

“

This method allows for tags to be attached to whales that might otherwise be difficult to approach with a boat and minimizes any disruption to their normal behaviors.”

*Dr. Susan Parks*

SnotBot® is Ocean Alliance’s drone that collects the blow or snot from whales by hovering above the whale as the whale exhales.

This work shows that UAVs are capable of attaching biologging tags to free-swimming large whales. This method may hold advantages for studying vulnerable or hard to study species by potentially reducing stress from tagging activities. The work was carried out in collaboration with researchers from Ocean Alliance, Stellwagen Bank

National Marine Sanctuary, Universidad Autónoma de Baja California Sur, University of Michigan, and Syracuse University.

“The ability to use the aerial platform for tag deployment provides a huge step forward for the science. This method allows for tags to be attached to whales that might otherwise be difficult to

approach with a boat and minimizes any disruption to their normal behaviors. This gives us an opportunity to better understand their behavior to aid in conservation efforts." Dr. Susan Parks, whale acoustics expert and Biology Professor from Syracuse University.

Biologging data tags are critical tools for marine mammal research. The tags are equipped with specialized sensors for recording depth, orientation, acceleration, temperature, acoustics, and even video.

In addition to reduced behavioral impact, "efficient tag deployment enables targeting of specific animals in a group or multi-animal tagging. This ability to target an individual animal and/or doubling or tripling sample size

for an experiment will greatly enhance the science and our understanding of these animals." Dr. Alex Shorter, Mechanical Engineering Professor University of Michigan.

Stellwagen Bank National Marine Sanctuary Research Ecologist Dr. David Wiley, who has used suction-cup tags to study the behavior of whales for almost 30 years, said, "A lot of time and funds have gone into improving tag design and capability, but this is the first real improvement in tag delivery!" Wiley also stated, although the use of UAVs for tag attachment is a major advancement, it, "Takes more than just the desire and a drone to make it happen. The synergy of combining our expertise and experience greatly contributed to our success."

Learn more at [instagram.com/SnotBot](https://www.instagram.com/SnotBot) or [www.whale.org](http://www.whale.org).

# # #

About Ocean Alliance

Dr. Iain Kerr leads Ocean Alliance's Drones for Whale Research Program. Ocean Alliance is a 501(c)3 non-profit whose mission is to protect whales and their ocean environment through research, scientific collaboration, public education, and the arts.

Dr. Iain Kerr  
Ocean Alliance



UAV named SnotBot deploying a bio logging tag on a blue whale



Photo sequence of a UAV deploying a DTag on a blue whale

+1 978-281-2814

[email us here](#)

Visit us on social media:

[Facebook](#)

[Instagram](#)

[YouTube](#)

---

This press release can be viewed online at: <https://www.einpresswire.com/article/628853442>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2023 Newsmatics Inc. All Right Reserved.