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STAR : ODDI

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Implantable leadless heart rate loggers to monitor fish metabolic demand

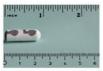


An ongoing project conducted at the French Research Institute for Exploitation of the Sea, Ifremer, aims at understanding the migratory behavior of the European sea bass along the coast of Western Europe. One objective of this project is to identify ecological entities that

would then be taken into account in sea bass stock management.

Ifremer's plan is to equip a subset of sea bass with <u>Star-Oddi's implantable leadless DST micro-HRT heart rate and temperature loggers</u>, allowing them to monitor fish metabolic demand in relation with their swimming activity, depth and temperature. This heart rate logger is unique on the market as it has no external leads and

therefore easy to implant. In preparation for this deployment, the researchers intend to equip sea bass with the DST micro-HRT and then submit these fish to sets of swimming trials under various temperature and oxygenation conditions. These tests will be conducted in a swim flume available at Ifremer research center in Brest (see photo). Expected results are sets of relationships that will then be compared with similar relationships obtained via other experimental approaches.



Between 2010 and 2012, a total of 246 adult bass have been equipped with archival tags. An average rate of recapture of

11% has been observed, with a time at liberty ranging from 1 to more than 24 months. In 2014 and 2015, 1200 additional tags will be deployed on 8 sites from Southern Bay of Biscay to North Sea and Eastern Channel. This new set of deployment will provide a unique opportunity to capitalize on a newly developed technology to investigate energetic ins and outs of sea bass migratory strategy.

Mapping the distribution of Whales and dolphins



The University of Iceland is studying the behaviour and distribution of whales in the Faxafloi bay in Iceland as part of a long-term whale study project.

For the study, researchers have been using <u>Star-Oddi's DST CTD</u> for conductivity, temperature and depth logging onboard the tourist Whale watching boat <u>Elding</u>. Photo identification pictures of the whales are also being taken, although not by the tourists onboard!

Release offer on DST milli-TD, Temp-Depth logger



As we announced in our April newsletter, Star-Oddi released a memory increase in the DST milli-TD data logger with a memory capacity of 1.4 million data points. Smaller memory capacities of 700 thousand and 87 thousand measurements are also available.

To celebrate the new memory increase we have decided to provide a 25% discount on DST milli-TD with any memory type on orders received before September 1st 2014.

Since its release 12 years ago, the small DST milli-TD data logger has been popular in fish and marine animal tagging projects as well as for use on fishing gear and mooring applications. Size is only $39.4~\text{mm} \times 14~\text{mm}$ and various depth ranges are available, up to 800~m. Depth loggers with different dimensions and higher pressure survival are also available.

You can view in-the-field stories, scientific publications and technical specifications on the <u>DST milli-TD product page</u>. For a quote, go to our website http://www.star-oddi.com/Order-Now/How-to-order/.

Published research using our sensors



You can view an extensive collection of scientific papers and posters using our sensors in various types of aquatic and fisheries research which can be found on our website. To view the research, please click on the following link.

If you have a story or research to share with us, please contact us.

CSIRO

Great offers on ebay!



We have added plenty of loggers or our ebay page. There is a variety of products for sale such as recorders' software and starter kits (recorder +

communication box/cable + Application software).

Click here to view our offers.

*Please note that as the recorders sold on eBay are "in stock" items we cannot guarantee full battery life and calibration accuracy may vary from the Technical specifications.

Fun fact: Comedian steps down after 4 years as mayor of Reykjavik



On May 31st municipal elections will theld in Iceland. The outcome won't be clear until all the votes have been counted, but Reykjavik will definitely be electing a new mayor as the currer one, Jon Gnarr, is stepping down afte serving for 4 years.

47 years old Jon Gnarr has had a quil interesting and often difficult life. As a child he was misdiagnosed with sever

mental retardation and was treated at a children's psychiatry ward at the State Hospital. He also suffered from dyslexia and was later diagnosed with attention deficit hyperactivity disorder (ADHD).

He first found fame in Iceland as part of the comedy duc Tvihofdi, that hosted a popular radio shows. Later he starred in various comedy sketch shows, movies and television programs.

In 2009, he, among other people who had no former experience in politics, formed the Best Party. The Party, which started out as a satirical political party gained six out of 15 seats on the Reykjavík City Council or 34.7 percent of the vote in the 2010 municipal elections. Among the party's campaign promises were free towels all swimming pools, a polar bear for the Reykjavík zoo, sustainable transparency and a promise to break all the campaign promises.

It is safe to say that Gnarr has caught people's attention

not only in Iceland, but all over the world. A staunch supporter of human rights, he has participated in Reykjavik's Gay Pride Parade in full drag and presented a peace award to Lady Gaga dressed as a Jedi.



After serving one term as mayor, Gnarr has decided not to continue his political participation and claims to be undecided about what he will do next.

Data Storage Tags - DSTs

Star-Oddi has been manufacturing and developing DSTs since 1993. The data loggers are used for various studies, such as fish tagging, fishing gear studies and oceanography. You can find our whole product range here. The following sensors are available:

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Star-Oddi Online

Now you can find product updates, video tutorials and general information about Star-Oddi on:





Star-Oddi | Skeidaras 12 | 210 Gardabaer | Iceland | Tel: +354 533 6060 | Contact | www.star-oddi.com

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