



LOWELL INSTRUMENTS NEWSLETTER

In this Winter 2021 issue:

- **RESEARCHER SPOTLIGHT:**
- **Sharklife Conservation Group**
- **TCM-3s in Hydrothermal Vent Research**
- **UPCOMING FIELD SEASON PREP**

WE REMAIN OPEN DURING THE PANDEMIC:

We are hoping our customers have stayed safe and healthy during this crazy time. Our office hours are generally 9-5pm EST, Mon-Fri, but email is the best way to reach us:
sales@lowellinstruments.com
-or-
info@lowellinstruments.com

LOWELL INSTRUMENTS LLC

Tilt Current Meters

- Low Cost
- Accurate
- Rugged Design
- Small & Light
- Long Battery Life
- Large Memory

LOWELLINSTRUMENTS.COM

RESEARCHER SPOTLIGHT: SHARKLIFE CONSERVATION GROUP Pregnant Ragged-Toothed Shark Research in South Africa

[Sharklife Conservation Group](#), a non-profit organization out of South Africa,

deployed our Tilt Current Meters (TCM-1s) in [iSimangaliso Wetland Park Marine Protected Area](#) to collect temperature and current data as part of a 3-year research project. They are studying the effects these environmental conditions have on pregnant Spotted Ragged-toothed sharks (*C. Taurus*).

These sharks, also known as "Raggies", have a nine-month gestation period and congregate every year in this marine protected area off South Africa from December through March. The TCM's are easy for a diver to deploy and most importantly, are non-intrusive to sensitive habitats and animals.

Read the full application story on our website [here](#).



A pregnant Ragged-toothed Shark swims by a TCM-1 in South African Waters.
PhotoCredit:SharklifeConservationGroup.



An up-close shot of a Ragged-toothed Shark swimming next to a TCM-1 with caution tape on it, in South African waters. Photo Credit: Sharklife Conservation Group.

Deep Water Tilt Current Meters featured in ECO Magazines DEEP SEA Digital Issue

Did you know that our [TCM-3](#) deep water Tilt Current Meter is designed to operate off the continental shelf in water up to 4500m depth?! The TCM-3 is constructed with a titanium pressure housing and is easily deployed by small ROVs.

Read about the hydrothermal vent studies using our TCM-3s and watch them being deployed by [ALVIN](#) at 2500 meters ECO's digital edition [HERE](#).

DEEP SEA 2020
eco
environment coastal & offshore
SCIENCE | REGULATION | ASSESSMENT | MITIGATION | RESTORATION
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THIS SPECIAL ISSUE
IN PARTNERSHIP WITH

Featured in the ECO Deep Sea Special Issue

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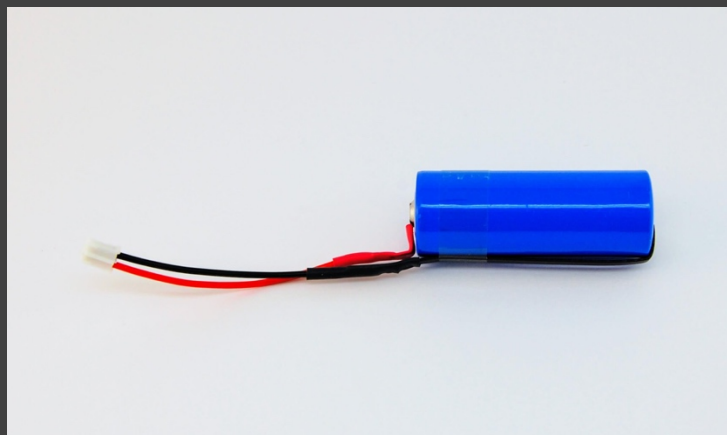
Affordable and Easily Deployable Tilt Current Meters for Deep Sea Research
By David Forman, ECOMAG

Should you use a tilt current meter for deep sea research? The answer is yes, if you can afford it. The TCM-3 is a small, lightweight, and easy-to-deploy current meter that can be used in a variety of deep sea environments. It is designed to be used in a variety of deep sea environments, including the deep ocean, the continental shelf, and the continental slope. The TCM-3 is a small, lightweight, and easy-to-deploy current meter that can be used in a variety of deep sea environments. It is designed to be used in a variety of deep sea environments, including the deep ocean, the continental shelf, and the continental slope.

Deep Sea Research
The deep sea is a vast and mysterious world, and it is one of the last frontiers of exploration. Deep sea research is a multidisciplinary field that involves the study of the deep ocean, the continental shelf, and the continental slope. The deep sea is a vast and mysterious world, and it is one of the last frontiers of exploration. Deep sea research is a multidisciplinary field that involves the study of the deep ocean, the continental shelf, and the continental slope.

IMPORTANT FIELD SEASON PREP: BATTERY REPLACEMENT AND DOMINO SOFTWARE!

Have you replaced batteries on your current meters recently?
Generally, our lithium batteries last one year but should be checked and replaced if needed before a new field season deployment. It's easy to replace them with a battery replacement tool kit or replacement batteries available on our website: [HERE](#)



Have you checked to make sure you have the most up-to-date software?

DOMINIO, is not only our beloved office dog, but also our python based, open sourced software for use with our data loggers and current meters. Domino has replaced MAT Logger Commander, which is our legacy software and is no longer recommended for use by new users. Please check our website [HERE](#) on how to update our free software, and be sure that you have the most recent firmware version [HERE](#).



Lowell Instruments - Domino 0.5.6

Create Setup File Start/Stop Device Convert Files

Connected on USB


Device is halted

File size 0.00 MB
SD card free space: 3.67 of 3.69 GB available
Logger Time: 2019/07/03 10:52:47
Computer Time: 2019/07/03 10:52:48

Sensor	Enabled	Value
Accelerometer X	Yes	0.864
Accelerometer Y	Yes	-0.519
Accelerometer Z	Yes	0.000
Magnetometer X	Yes	473
Magnetometer Y	Yes	105
Magnetometer Z	Yes	310
Temperature	Yes	23.450
Battery	Yes	3.67

Serial Number: 1802000
Firmware Version: 1.8.68_MAT
Model Number: MAT-1
Deployment Number: 17

Auto Connect Connected to 1802000 Halted



Lowell Instruments is committed to creating tools and solutions to help you with your research.

We want to hear from loyal customers like you.

**Follow us on Twitter at [@Lowell_Inst](#) or [Facebook](#) and
let us know what you think about our products** and customized support.

Thanks,
Nick Lowell
Founder & President

We created this newsletter so that our customers can stay informed about the latest updates from Lowell Instruments.

Thank you for reading! If you wish to opt out you may [unsubscribe](#) at any time.