Case Study:

IMPACT SUBSEA'S ISA500 ALTIMETER ON ICEFIN ROBOT FOR ANTARCTIC RESEARCH

FEATURES & BENEFITS

120+ METER RANGE

Proven long range measurement.

1MM ACCURACY

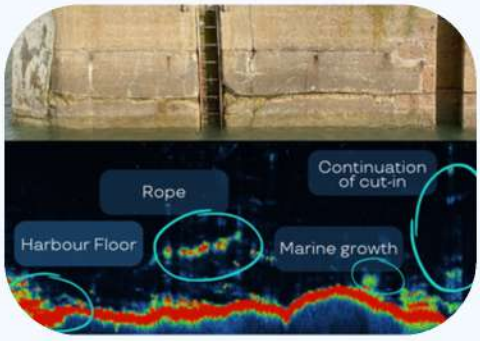
Proven millimetre accuracy.

INTEGRATED AHRS*

Provides Magnetic Heading to ±1°
Pitch & Roll to 0.2° accuracy.

ECHOGRAM*

Visualise sonar backscatter data.
Up to 2,000 samples per ping.



EMULATE ANY DEVICE

Direct replacement of existing equipment.

VARYING DEPTH RATINGS

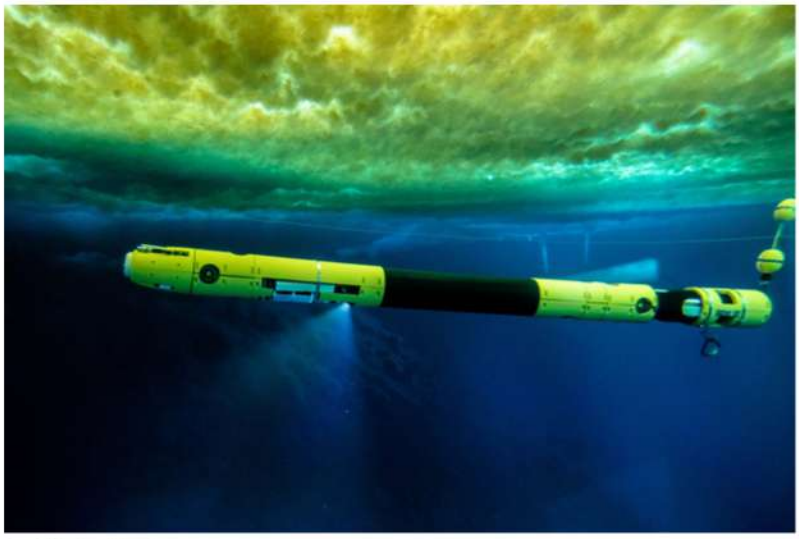
Available in 1000m, 6000m and 11,000m depth ratings.

*Optional

Impact subsea's ISA500 Underwater Altimeter is being successfully utilised on the Icefin autonomous underwater vehicle.

Developed by The Planetary Habitability and Technology Lab at Cornell University, Icefin is designed to explore the aphotic regions beneath Antarctic ice shelves.

Icefin is a uniquely designed underwater vehicle that can fit through narrow ice shelf boreholes while maintaining its full complement of oceanographic instruments.



Icefin Robot

Icefin website

ISA500 APPLICATIONS INCLUDE:

Scour Monitoring | Touchdown Monitoring | Hydro-graphic Survey | Motion Reference | Wave Height Measurement | Equipment Deployment | Under Ice Measurement | Underwater Positioning | ROV & AUV Altitude, Heading & Attitude |

IMPACT SUBSEA
INNOVATIVE SENSORS

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ISA500 Altimeter installed on the Icefin Robot

Icefin's exploration offers invaluable insights into the impacts of climate change on polar regions.

By monitoring ice coverage, melting rates and glacial ice movement, researchers can gain a deeper understanding of how these changes are affecting our planet.

This data is vital for predicting future climate scenarios and developing effective strategies to mitigate the effects of global warming.

"We are honored that our ISA500 is contributing to such groundbreaking research,"

said Ben Grant, Managing Director at Impact Subsea.

"Our commitment to providing innovative solutions for underwater exploration aligns perfectly with the goals of the Icefin project."

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