

LIQUID ROBOTICS

instrument the ocean



METEOROLOGY / OCEANOGRAPHY

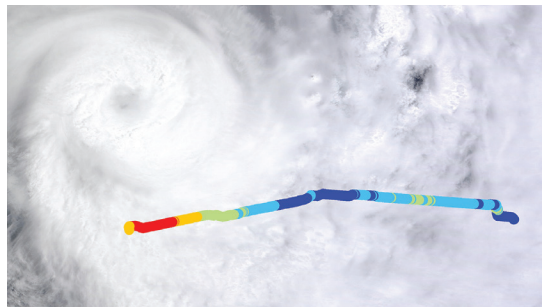
Weather forecasting has developed little since the advent of satellites. The next big leap is not possible without direct measurements in the ocean. While there are over 70,000 weather stations on land, there are fewer than 1,200 in the ocean.

Oceans drive the world's weather. Forecasting will only improve with more data, but the cost of buoys makes this impossible.

A NEW APPROACH TO METOC

Collecting the necessary meteorological and oceanographic data to improve weather models and forecasting is made possible and affordable with Wave Gliders.

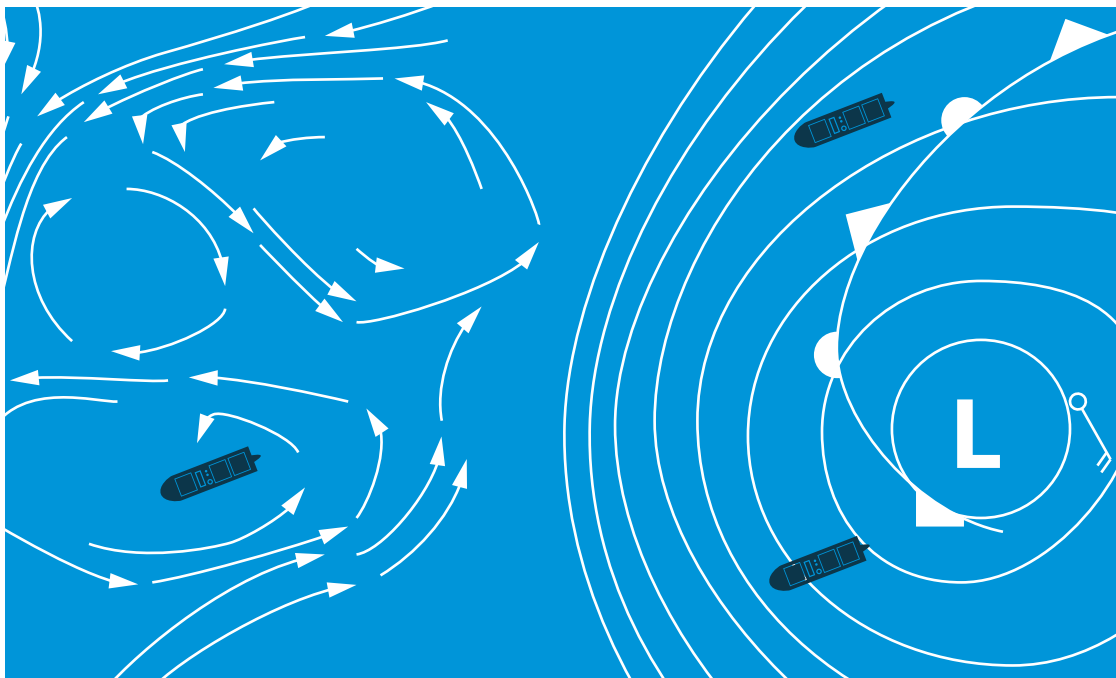
- More cost-effective and more reliable than buoys
- Adaptable to evolving demands and ship operations
- Long duration, 24/7/365 operations
- Unaffected by cloud cover
- Improved data accuracy with in situ measurements



Wave height data gathered from Tropical Cyclone Freda, Dec. 2012

HOW DO WAVE GLIDERS COMPARE TO BUOYS?

	SURFACE TEMP	WATER TEMP	AIR PRESSURE	DEW POINT	WAVE HEIGHT	WAVE + WIND SPEED	WAVE + WIND DIR.	TEMPORAL RES.	SPATIAL RES.	REAL-TIME DATA	REMOTE DEPLOYMENT	VIDEO/IMAGES	ADRIFT PREVENTION	95% DATA UPTIME
Wave Glider	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Standard buoy	●	●	●	●	●	●	●	○	○	○	○	○	○	○



CONCEPT OF OPERATIONS

Wave Gliders perform continuous collection of all standard METOC data, both at and below the surface.

Wave Gliders can be directed to hold station at specific locations or be positioned dynamically.

This METOC concept supports forecasting, nowcasting and hindcasting, with data available in real time.

Liquid Robotics, Inc.

1329 Moffett Park Drive, Sunnyvale, CA 94089, USA

+1 408 636 4250 • info@liquidr.com • www.liquidr.com