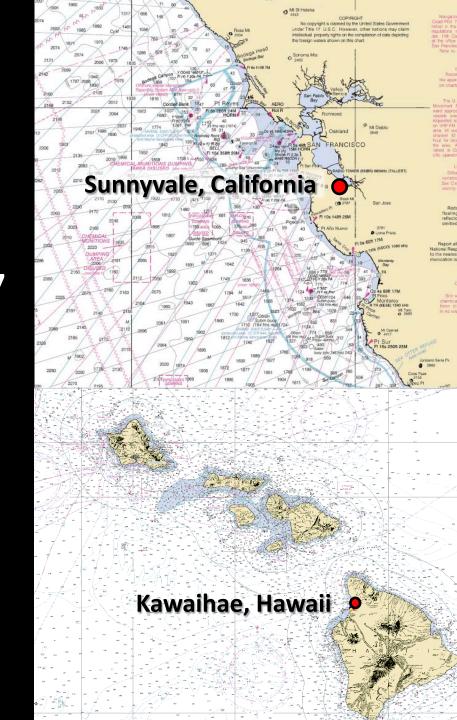


- Project Start: April 2005
- Company Founded: January 2007
- Product Introduction: 2009
- Today: 48 employees
- Headquarters:Sunnyvale California
- Test & Development:Big Island of Hawaii





VVave Glider™ Autonomous Ocean Vehicle

No Fuel, No Crew, Low Capital Cost

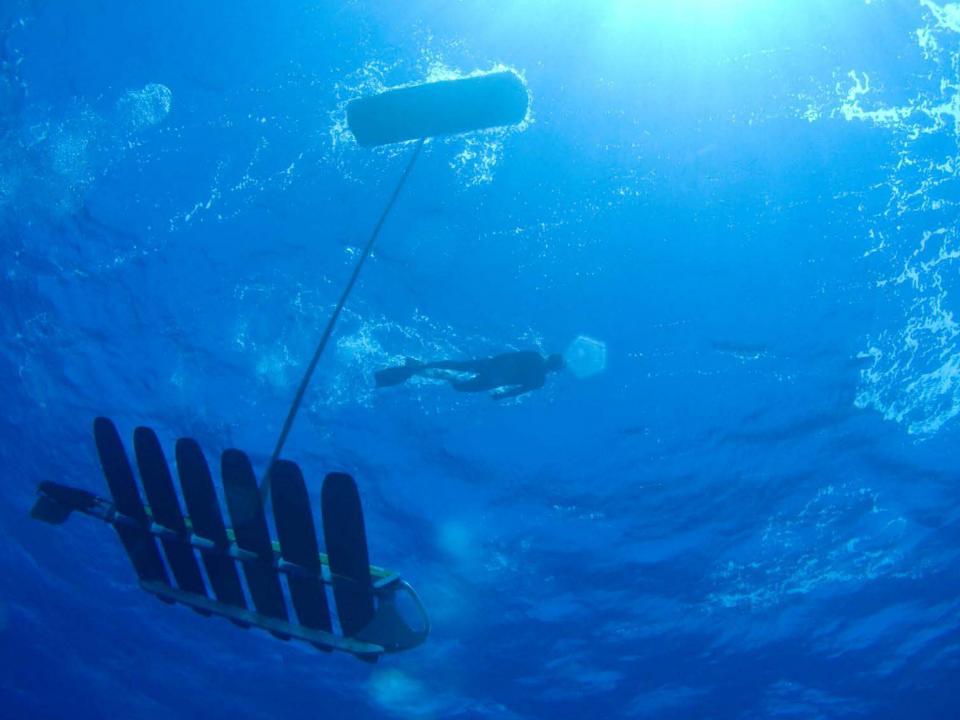




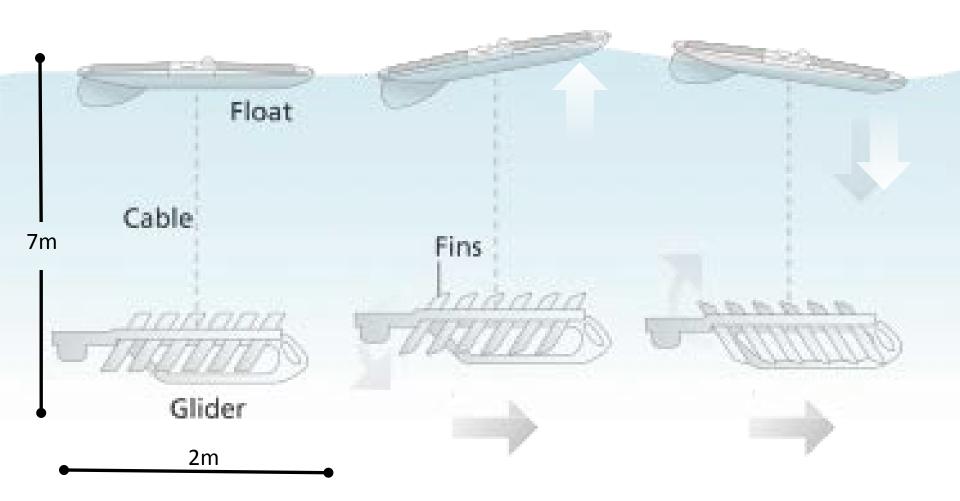
VVave Glider™ Autonomous Ocean Vehicle

Natural Energy Conversion Enables **Sustained** Unmanned Ocean Operations

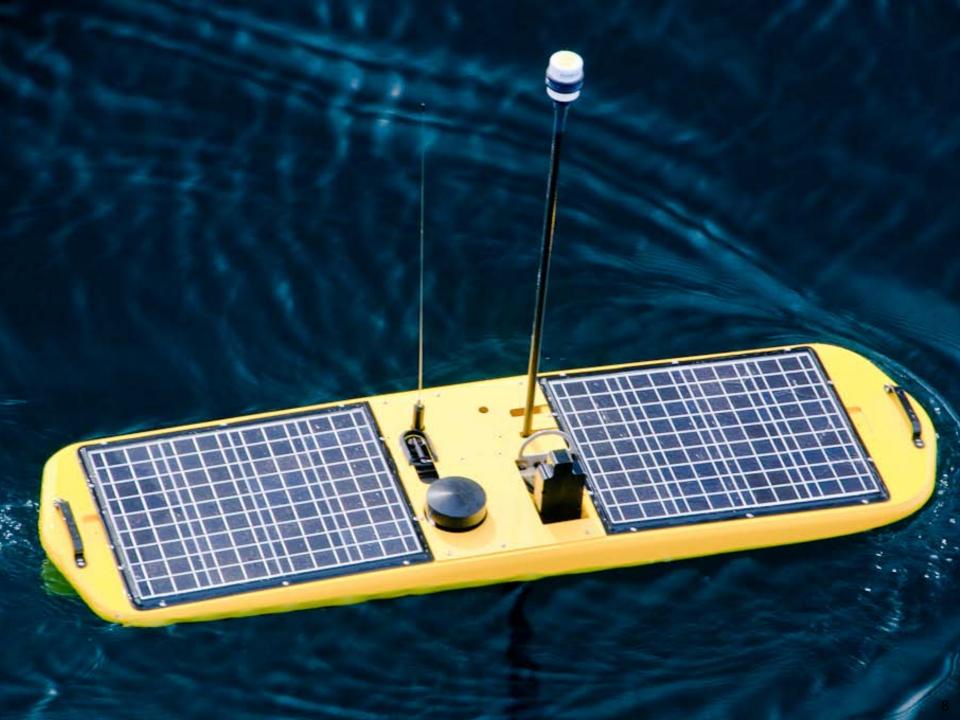


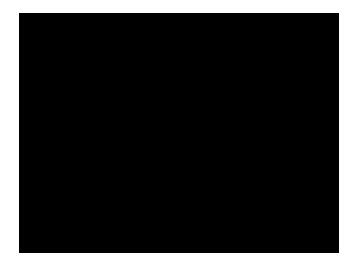


Wave Glider Concept Submerged glider converts vertical motion into forward thrust





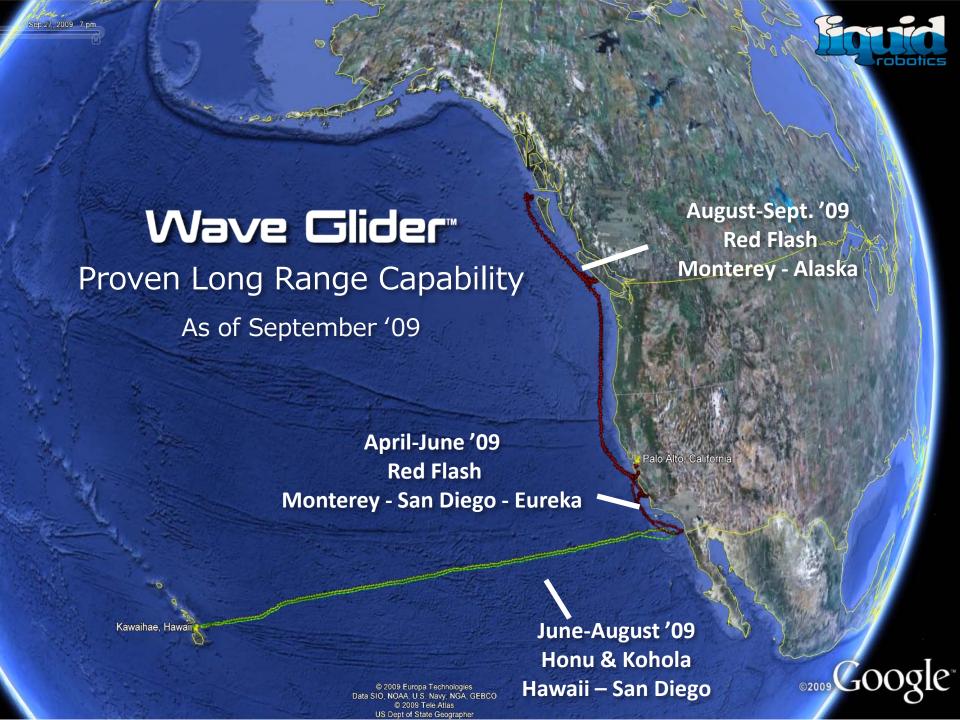




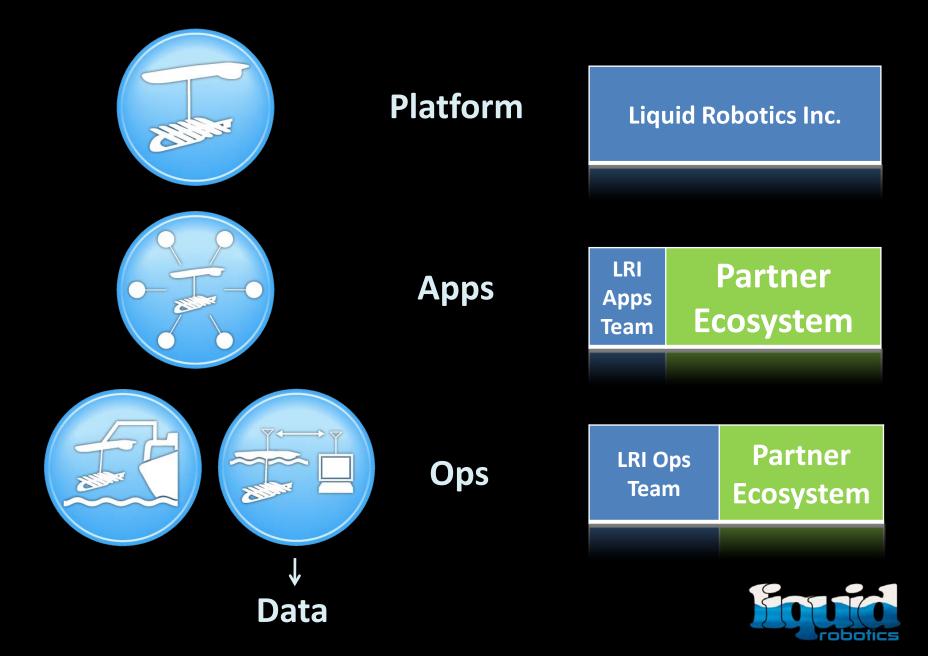
Wave Glider Basics

- Unique Two Part Vehicle:
 - Converts wave motion into thrust
 - Calm and rough seas
 - Thrust generation increases with sea state
 - Long mission durations possible
- Both a Buoy and a Vehicle
 - Travel to operation area
 - Return for maintenance
 - Patrol, survey or hold station
- It's Real:
 - Existing fleet has traveled over 100,000 nmi
 - Long Distance Missions
 - "Iron Man" vehicle approaching two years service





What We Sell



The Wave Glider Partner





OCEANEERING

AXYS TECHNOLOGIES INC

Sensor Manufacturers



Strategic Relationships













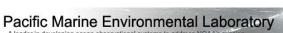
















SHINE MICRO



Any Sensor, Any Telemetry, Any Environment









International Channel Partners





Australia & New Zealand







Italy

Communication Technology



Spain













Japan

Germany

Liquid Robotics Confidential



THE WALL STREET JOURNAL.

DOWJONES

A NEWS CORPORATION COMPANY

MONDAY, SEPTEMBER 27, 2010 - VOL. CCLVI NO. 74

*** \$2.00

Lastweek: DJIA 10860.26 ▲ 252.41 2.4% NASDAQ 2381.22 ▲ 2.8% NIKKEI 9471.67 ▼ 1.6% STOXX 600 263.97 ▲ 0.4% 10-YRTREASURY ▲ 1 6/32, yield 2.610% OIL \$76.49 ▲ \$1.57 EURO \$1.3491 YEN 84.2

The Wall Street Journal 2010 Technology Innovation Awards

Among the winners: computer screens that can bend, adjustable eyeglasses, a low-cost genetic test, an online marketplace for receivables and a new way to battle malware

organizations and individuals in 30 countries.

Journal editors reviewed the entries and

The Winners, Category by Category

This year the Innovation Awards judges chose winners in 17 categories. Here's a look at the winning entries.

BY Michael Totty

Robotics

Liquid Robotics Inc., based in Sunnyvale, Calif., is the winner in this category for developing an unmanned seagoing craft propelled by the power of ocean waves.

Most unmanned ocean craft can remain at sea for only a short time, relying on batteries to power propellers or pumps. The heavier their payload, the less time they have.

Thanks to its propulsion system, Liquid

panels, converts the up-and-down motion of waves into forward thrust, making it possible to propel the buoy indefinitely without relying on batteries or other power sources.

The craft can be controlled remotely via satellite over an Internet connection. Instruments are powered by a solar panel on the surface of the floating buoy. Innovation Awards judge William Webb says the technology is "simple, novel and very workable."

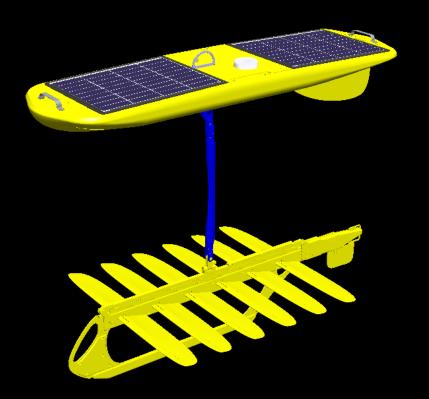
The vehicle originally was designed by co-inventor Roger Hine, a Silicon Valley engineer and now the company's chief executive, to monitor the activities of humpback whales. It can also be used for tsunami warnings, observing weather and ocean conditions



LIQUID ROBOTICS Wave Glider

This summer, BP PLC deployed two Wave Gliders to the Gulf of Mexico to monitor water quality near the site of the well that exploded in April and spewed millions of gallons of oil into

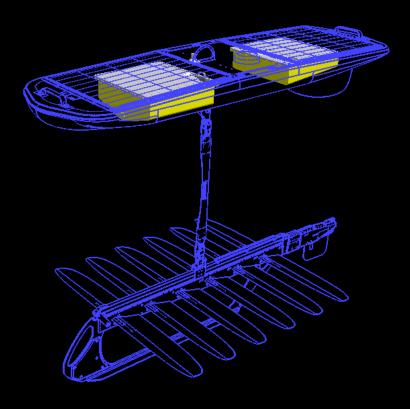
Core Platform



This is the core Wave Glider™ vehicle. It comprises the float body with two photovoltaic panels; removable foam spacers; umbilical release; antenna mounting deck; core electronics package with Iridium uplink, GPS, command, control, navigation, and payload interfaces; submarine wavepowered thruster with shockabsorbing composite spring-bar; streamlined umbilical; documentation; crates and packaging. Customer must select a Paint Option and a Comms Option.



Standard Options



- Payload Boxes
- Maintenance Contract
- Data Infrastructure
- Training
- Ops Support





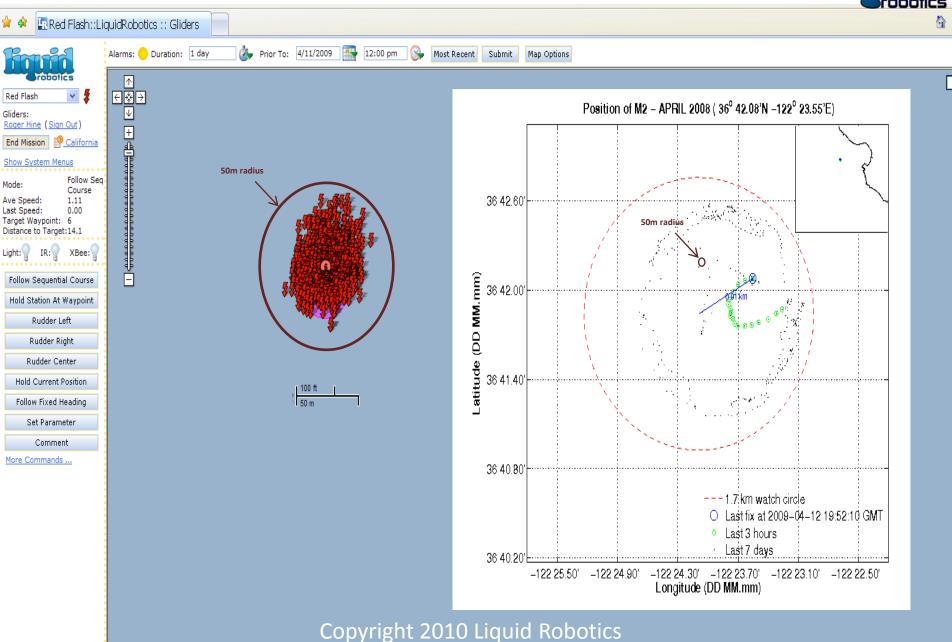
Government Weather Services



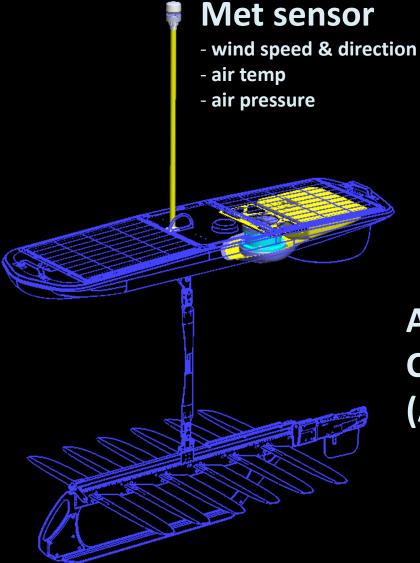
NOAA National Data Buoy Center
"1058 stations deployed
878 have reported in the past 8 hours"
\$500M/10year SAIC contract to operate ~160 buoys
Does not include cost of 65 USCG buoy tender vessels

Station Keeping Comparison – WG: 50m M2 1700m





Met-Ocean Configuration: (in development)



Wave Sensor

Acoustic Doppler Current Profiler (ADCP)



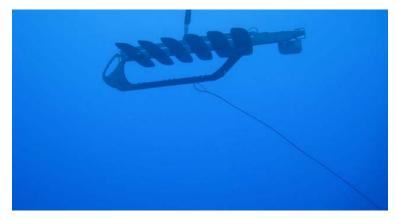
US Met Ocean Leadership

Rear Admiral White, Navy CNMOC Commander
Captain Brown, NAVO Commander
Helmut Portman, NDBC Director
Eddie Bernard, PMEL Director



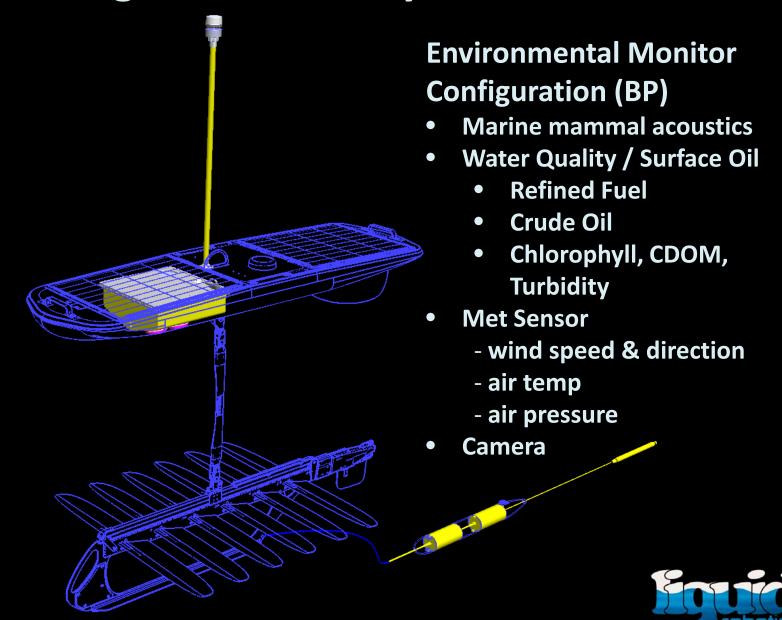
HARP Integration

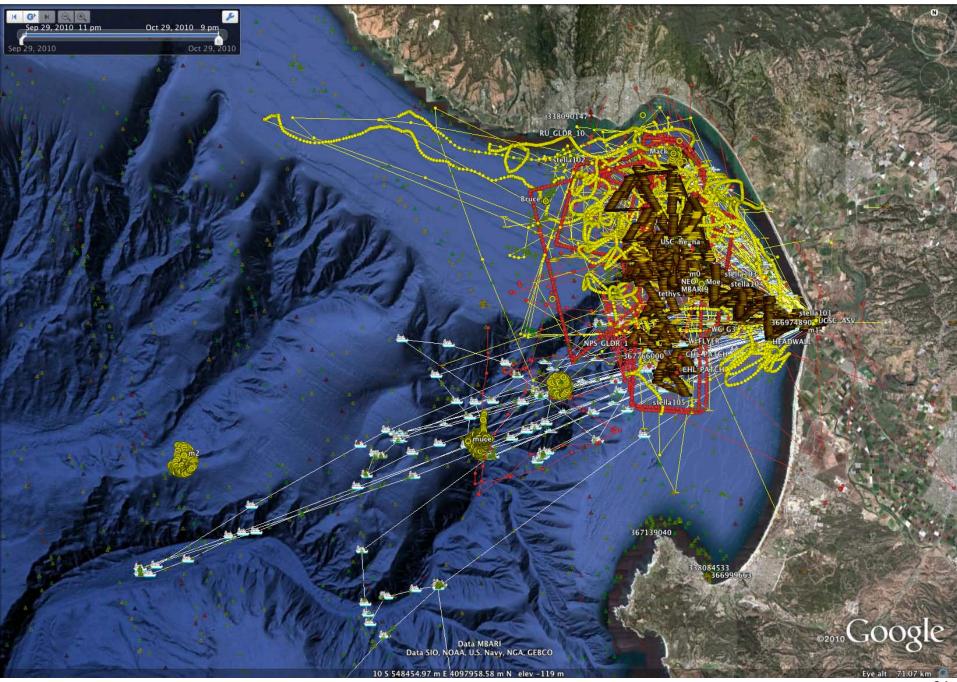
- Hydrophone
 - Designed to be towed behind the Wave Glider
 - small cross-sectional area (25.4mm diameter)
 - small diameter (6.3mm) electro-mechanical cable
 - Consists of two transducers:
 - Benthos AQ-1 cartridge for 10Hz 2kHz
 - Sonar Research HS-150 for 2kHz 100kHz.
 - Both are amplified and filtered with electronics inside the oil-filled hydrophone tube. Conditioned analog signals are digitized and stored to disk by the HARP data logger.





Fully Configured, with Payloads





MBARI/BloomEx Demo



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Products and services 🗸

Environment and society 🗸

Investors 🗸

Gulf of Mexico response ,

Gulf of Mexico response



Latest reports:

BP Deploying Advanced Unmanned Water Quality Monitoring Vehicles in Gulf of Mexico. As part of its long term monitoring and research program in the Gulf of Mexico, BP is deploying a new technology that will enable nearly constant monitoring by two satellite-controlled, unmanned vehicles.

▶ Read the full press release

Recent updates:

- Video: A look ahead with BP's Louisiana Incident Commander Brian Bauer
- Video: Marsh Washer: a Gulf Coast business provides a new technology
- ▶ Press release: BP Provides \$52 Million To Fund Behavioral Health Support
- ▶ Press release: Nearly \$400 Million in Claims Payments as Program Transitions to **GCCF**
- ▶ Live video: From Enterprise 'fishing' operation to remove well drill pipe ☐

Gulf of Mexico response homepage

Response quick links:

- Making it right
- Response in pictures
- Response in video
- Claims

Keep up to date





RP on Voutube (

Investors

Gulf restoration contacts

Unified Command Joint Information Center: +1 713 323 1670/1

- http://www.restorethegulf.gov =
- ▶ JIC archive website □

Gulf Coast Claims Facility: +1 800 916 4893

- ▶ Gulf Coast Claims Facility □
- www.bp.com/claims

TTY: 866 682 1758

Environmental hotline and community information: +1 866 448 5816

Wildlife distress hotline:

+1 866 557 1401

Volunteers: +1 866 448 5816

Vessels of Opportunity: +1866-279-7983

Further contact information

- Alabama response website 🗖
- Florida response website
- Louisiana response website
- Mississippi response website





VVave GliderOil & Gas Data Services

- MetOcean (Meteorological & Oceanographic)
 - Currents
 - Waves
 - Weather
- Ecosystem / Habitat Monitoring
 - Marine Mammal Acoustics
 - Water Quality / Surface Oil
 - Wildlife & Bio-Science
- Seep Detection & Monitoring
- Marine Seismic Survey
- Subsea Support
- Security & Situational Awareness





Contact Info

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