#### **Other Facility Operator Reports**

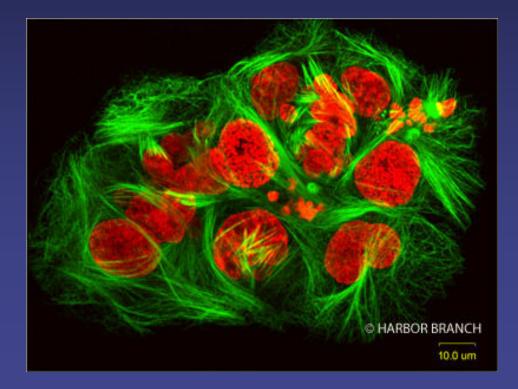
### Harbor Branch Oceanographic Institution (HBOI)



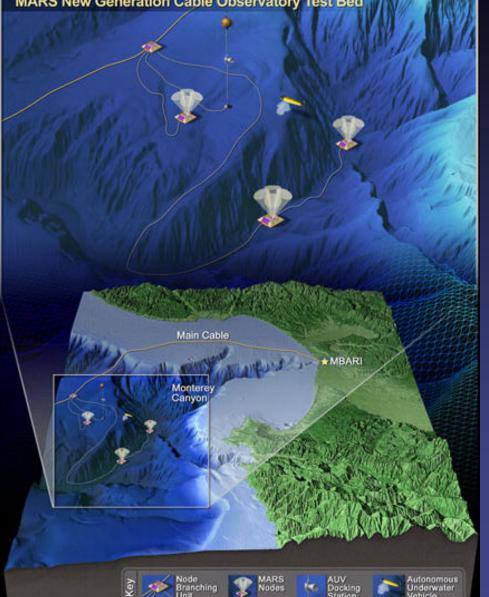
http://www.hboi.edu/

Summary of 2003 operations

08/18-31 Biomed research (Clelia) 09/09-27 Georges Bank, Gulf of Maine zooplankton research (JSL) 10/9-27 - Bahamas biomedical research (JSL)



# MARS New Generation Cable Observatory Test Bed



## Institute (MBARI)

The Monterey Accelerated Research (MARS), a System cabled observatory system, with benthic instrument nodes, AUVs, and various benthic and moored instrumentation. MARS will enable the community to test arrays of sensors and data handling for future observatory needs. MBARI operated several scientific research expeditions outside of Monterey Bay in 2003.

http://www.mbari.org

### Marine Physical Laboratory (MPL) **ATV** Operations



ROGER REVELLE

ATV transferred from Navy to SIO in 2000.

With ONR support, SIO reactivated and evaluated the ATV.

#### Advanced Tethered Vehicle

- US Navy Asset
- Designed and built by NOSC
- 6100 m rating
- 200+ lb nominal payload
- Work class ROV capabilities



(Written report available at back table.)

### Marine Physical Laboratory (MPL)



- Recorded dive video
- Collected 35 kg of rock samples
- Recovered lost acoustic transponder
- Streamed real-time video to the Internet, via RoadNet

#### ATV Sea Trials May 2003

- Operations area west of San Diego
- 3 dives over two days
- Max depth 1100m



### Hawaii Undersea Research Laboratory (HURL)



http://soest.hawaii.edu/HURL.hurl.html

#### 2003 Operations

- 08 test and certification dives for P-IV
- 09 NW Hawaiian islands and banks P-IV, V and ROV dives on flanks of Nihoa is, Maro, Pearl and Hermes Reefs, Midway, Kure Atoll
- 10 continue dives on NW Hawaiian islands and banks
- 11 finish NW Hawaiian islands dives and commence NE Oahu work with P-V and ROV
- 12 dives on LOIHI and W. coast of Big Island with P-V. Mid-month <u>simultaneous two-sub dives (P-IV</u> <u>& -V)</u> in marine sanctuaries sites

2004/5 expedition to SW pacific

## ROPOS, The Canadian Scientific Submersible Facility



#### 2004 Operations

http://www.ropos.com

## ROPOS, The Canadian Scientific Submersible Facility

Current Draft Schedule for ROPOS (2004) :

Dates 03/12 - 04/20;	Ship Thompso	on; Guam - Yokoh	ama; AIST, U of
Tokyo, NOAA	- First un	derwater eruption	observed.
06/14 - 06/28;	Tully;	West Coast Nor Am;	NSERC; Chapman, Leys
08/12 - 08/27; OCMS	Auriga;	Strait of Georgia;	Terrasen; Juan de Fuca NOAA
08/30 - 10/19;	Thompson;	West Coast Nor Am;	Delaney, Cork, Embley, Hufnagel
10/25 - 10/29;	Vector;	Strait of Georgia;	EPS; Sullivan
10/30 - 11/7;	Vector;	ROV left on board;	no operations
11/ 8 - 11/21;	TBD;	TBD;	VENUS; Hill, Tunnicliffe

Eos, Vol. 85, No. 4, 27 January 2004 Mariana Arc Explorations 9 February - 5 March, 2003 R/V Thomas G. Thompson 22N Submarine Volcanoes asuga-1? Mapped W Eifuku Hydrothermal aikoku Indicators Found 샀 Prior Discovery Farallon de Pajaros chahna Ahyi Reference to Δ Maug. Prior Discovery 20N lands Hydrophones Deployed Asuncion EM300 Multibeam ral Island Prov Bathymetry Coverage Agrigan MR1 Sidescan Coverage Ł Outer Bounds Pagan 18N /4\ Back-arc Spreading Center Axis Alamagan O Submarine Volcanoes with Guguan **Historical Activity in Red** Zealandia Bank Island Names in Green Sarigan Anatahan Island 0 400 (fig. 3) Farallon de -400 16N Medinilla East -800Diamante -1200 Esmeralda Saipan ABank -1600 Tinian Kilometers Depth (m) -2000 Aguijan 200 NW Rota 1 uthern -2400 W Rota Rota (fig. 2) 14N -2800 -3200 Guam -3600 South Seamount X -4000Back-Arc -4200 142E 44F 146E Mercator Projection

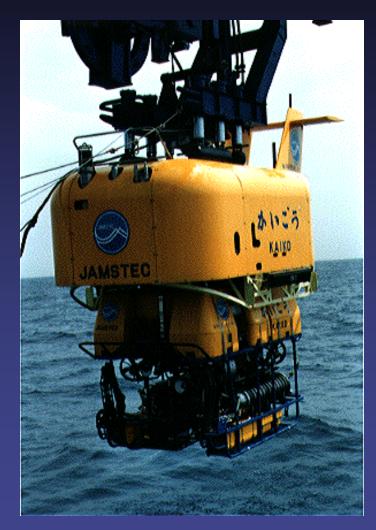
# The Mariana volcanic arc

-numerous submarine volcanoes in cross-chains

 hydrothermal activity observed on arc and backarc spreading center

(Embley et al., 2004)

#### Japan Marine Science and Technology Center (JAMSTEC)



http://www.jamstec.go.jp/jamstec-e/index-e.html

#### Replacing Kaiko, 11000 m ROV -(Lost at sea, May 2003)



Kyijiko Mitsuzawa, email: main@jamstecseattle.org

### Southampton Oceanographic Centre (SOC), Isis ROV



Lord Sainsbury launches ISIS, Nov. 11, 2003

#### Science Tools:

Coring system 10 -20 Samples 5cm diam. - 50cm Penetration

Suction Sampler approx. 10 Samples, approx. 3.5 L Fluid/Gas Samplers - Gas Tight Syringes, approx. 10 Sample, each. Approx. 1 L Water Sampler- Mini Rosette Butterfly Nets - 5 off samples Basket recovery for rock sample

#### Operations

06 MAR Atlantis, German, C. SOC Jacksonville Florida, Isis trials

4 APR ROV Mooring Ops. Barbados (rescuing the VEX Moorings, Vema Fracture Zone MAR)



http://www.soc.soton.ac.uk/