CY-2002
WHOI Outreach Related to Deep Submergence

WHOI, as the UNOLS National Deep Submergence Facility Operator, undertakes outreach activities on behalf of the ocean sciences and deep submergence research communities.

Part of this responsibility entails maintaining and providing access to the Deep Submergence Data Archives at WHOI.

WHOI also provides deep submergence and general oceanographic imagery and information to the new media (print, TV, and magazine), educational organizations and publishers, and the commercial entertainment industry.

Summary of WHOI Activities- 2002

• Deep Submergence Data Archives
• Museum, Television and other Outreach Activities
• Future Outreach Efforts

•WHOI fielded ~3,000 requests for visuals or information related to deep submergence.

•500 press kits or information packages in hard copy and another 500 electronic packages have been distributed

Special Projects

- The Galapagos 25th anniversary CD
- May-June 2002 Galapagos Rift 25th anniversary cruise with participation by National Geographic Channel (program aired mid-Oct.)
- Port call by R/V ATLANTIS in Kodiak, Alaska, related to a NOAA-OE funded cruise
- July briefing for members of Congress on deep submergence activities and the excitement of ocean exploration, and a number of Ocean Commission activities.
- Additional IMAX filming off San Diego

400 visual requests to date in **2002**, compared to 342 in 2001, 234 in 2000 and 214 in 1999 (total requests).

The requestors include:

Congressional Quarterly
Addison Wesley Publishing
German Museum of Oceanography
National Park Service
The Open University, UK
Dorling Kindersley Publishing, UK,
Canadian Museum of Nature

WHOI has provided materials for many exhibits and special presentations at such locations as the

National Air and Space Museum,
Jet Propulsion Laboratory,
American Museum of Natural History
Discovery Centre in Canada.

WHOI responded to dozens of educators around the country sharing information with their classrooms separate from the many web sites and other educational activities we also support with images and information, such as Dive and Discover, Extreme 2002 and others.

A number of visiting journalists heard presentations on and/or viewed NDSF assets during the year, among them the Institution's own Ocean Science Journalism Fellows in January 2002 and in September 2002, and the Knight Science Journalism Fellows from MIT in October 2002.

Dozens of articles appeared in print in the U.S. and abroad, and dozens of radio and television programs and web sites featured the National Deep Submergence Facility, including National Public Radio, ABC News, National Geographic Channel, Discovery Channel, Science Channel (formerly Discovery Science Channel), PBS, The Learning Channel, The History Channel, and The Travel Channel.

NDSF -Related Licensing Revenue

Video and Still Imagery = $29k
National Geographic = $25k (2001 not reported)
Total Income = $54k

Video

Income received to date from video from the National Deep Submergence Facility Archive amounts to $17,107.33.

Break down:

$11,920 from the 1985/86 TITANIC expeditions for a 90-minute History Channel special broadcast in April 2002,

$5,187.33 from hydrothermal vent cruises (underwater footage and NDSF vehicles, some of it topside and not actually part of the facility archives).

Still Images

Income received to date from still images for 2002 related to the NDSF amounts to $11,988.35.

Break down:

Hydrothermal vents	=$7,996.85
1985/1986 TITANIC images	=$3,991.50

Approximately 1/2 FTE in the WHOI Media Relations office handles requests associated with NDSF outreach and imagery licensing and distribution.

Table 1. (continued)

	Type	Number
OTHER		
Audio Tape	tapes	450
Dives:	1-1247	
1628, 1633		~150
1645		

Table 1 Notes:

For 8mm movie film, WHOI NDSF Archives doe have a projector, however, this film becomes brittle when manipulated and should be migrated by professional conservators. The 1-reel video cannot be viewed at the Archives. Archives holds two 3/4" tape players. The tape is a good, sturdy format, but the players are becoming scarce. Archives holds two 8mm players. Betacam video cannot be viewed at the Archives, but there are other resources at WHOI for viewing and converting Betacam video to other video formats. Archives holds three VHS players. VHS format is not durable, but players are common and inexpensive because it is a consumer standard. Archives holds one hi8 video player. Hi8 format is not durable and should be migrated soon. Archives holds one DVCam digital video player.

35mm reel films can be seen with a light table and rewinds, the easiest duplication and distribution for these is to scan them. This is currently being done with internal WHOI funds and the digital images are made accessible via the WWW on the WHOI library server with links from the NDSF web page. Currently, the best Alvin 35mm images from dive 1-2700 have been scanned and made available in this manner. 35mm mounted slides represent some original Alvin film cut into slides, and other images from hand held cameras. The 35mm negative film has an unknown provenance.

For data, archives currently holds a cartridge player, but we have not yet tried to read these tapes. Archives cannot read the 7-9 track tapes. RCA format disks cannot be read in standard 3.5" drive. All readable floppies have already been converted to CD. The existing CDs are all readable. For audio tapes, archives holds both reel-to-reel and cassette players.

Some of the audio tapes may hold data, not voice. We cannot read the data tapes, but if they are Exabyte tapes there are various resources at WHOI to permit reading these tapes.

URL for Alvin 'Best Hits' Photos to dive 3245 – July 1998
http://www.marine.whoi.edu/alphotos.nsf?OpenDatabase

Table 1. Inventory of Alvin Image and Vehicle Data in WHOI NDSF Archives.

IMAGES			Type	Number
	8mm Movie Film		reels	117
	Dives:	1-982		
	One Reel Video		reels	155
	Dives:	502-895		
	3/4" Video (Umatics)		tapes	393
	Dives:	800s		
		1095-1098		
		1150-1160		
		1595, 1598		
		1705-1716		
	8mm Video		tapes	1874
	Dives:	1862-2468		
		2483-2565		
		2641-2669		
	Betacam		tapes	82
	Dives:	2864-2694		
		2840-2854		
	VHS		tapes	1488
	Dives:	646-895		
		1070-1949		
		2483-2487		
		3651		
	Hi8 Video			
	Dives:	2469-2482	tapes	4327
		2566-2639		
		2670-3653		
	DVCam			
	Dives:	3114-3115	tapes	674
		3660-3827		
	35mm Photographs			
	Dives:	111-3653	reels	3200
	35mm Slides			
	Dives :	109-1229	slides	8,200
	35mm Negatives			
	Dives:	800-1200	negatives	~4,000
	Scanned photos			
	Dives	208-2620	cds	62
DATA			**Type**	**Number**
	Data Cartridges		cart.	18
	Dives:	518-535		
	9 or 7 Track Tapes			
	Dives:	611-1240	tapes	~150
	3.5" disks			
	Dives:	1329-2150	disks	1000
	Cd-Rom			
	Dives:	2197-3744	cds	130

Migration of Alvin Datalogging Data

The NDSF Archives at WHOI contain a vast amount of digital and photographic data that extends back to the mid-1970s, when Alvin was first used extensively for science. Since that time the types of computer media used to record vehicle parameters and navigation data have changed considerably. The media types include 5 1/4" floppy disks, 3.5" diskettes (both DOS and RCA formats), 8-track tapes and most recently CDs.

In an effort to continue to migrate data to useful media, we propose a modest effort that will look at the variety of older datalogger media and determine the following:

1) what media can still be easily read,

2) how can data on the older media be extracted and put into a common format (e.g. ASCII flat file and/or excel file with headers),

3) the availability of the necessary I/O devices and software for data migration to newer media,

4) the general quality of the older data and associated metadata. This effort will provide a reasonable first-cut at defining the issues associated with preserving older Alvin dive data and determining what is useful for ongoing research in seafloor areas visited with Alvin over the last 30 years.

URL
http://www.marine.whoi.edu/alphotos.nsf?OpenDatabase

ALVIN Photos

Views

- By Dive Number
- By Location

Next Browser Page

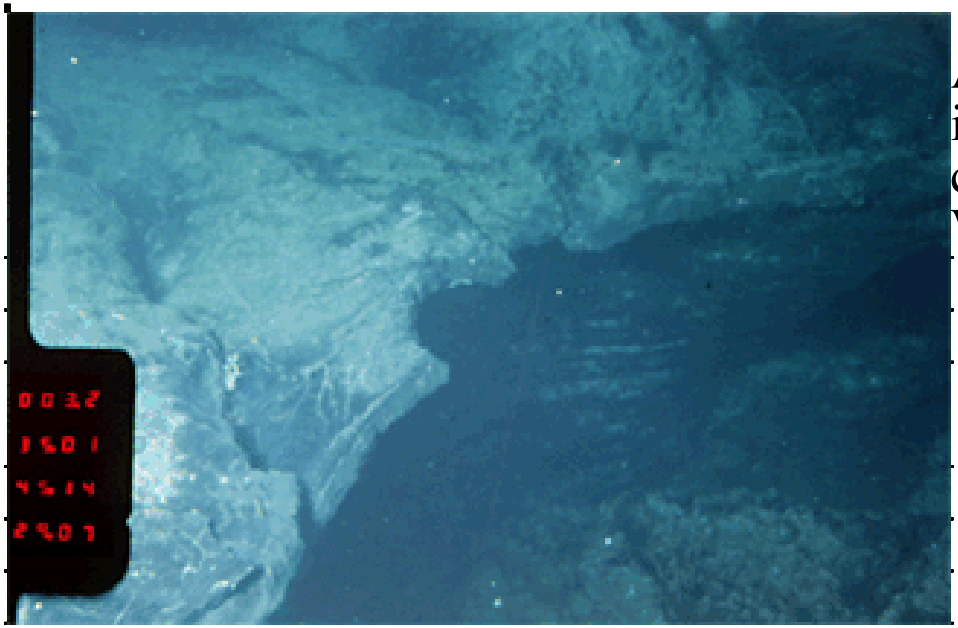
Previous Next Expand Collapse Search

By Dive Number

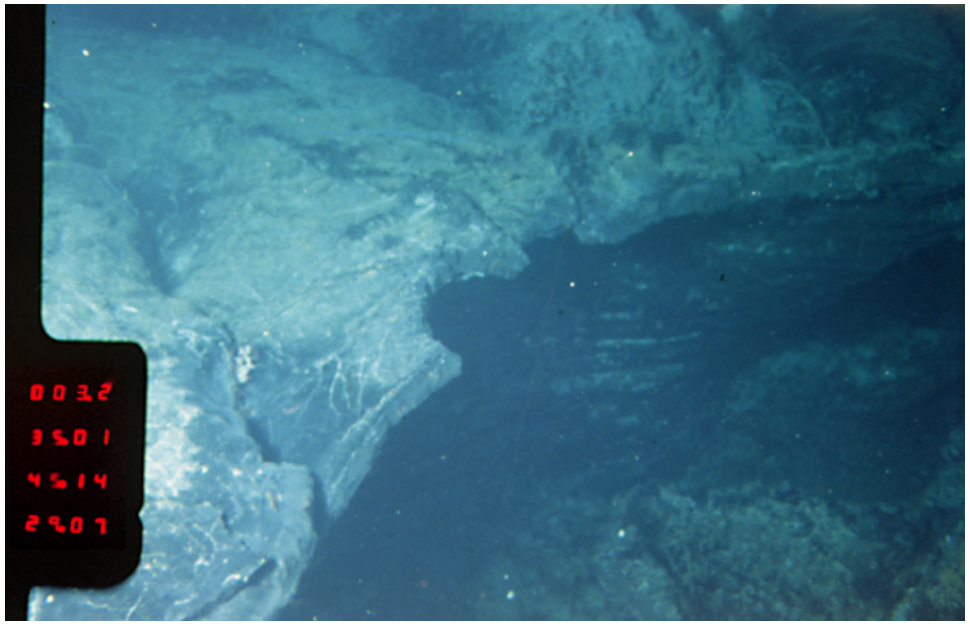
Dive #	Date	Scientist
3245	07/15/98	J. Cowen
3245	07/15/98	J. Cowen
3245	07/15/98	J. Cowen
3245	07/15/98	J. Cowen
3235	06/27/98	A. Chave
3235	06/27/98	A. Chave
3235	07/15/98	A. Chave
3233	06/20/98	B. Carson
3233	06/20/98	B. Carson
3233	06/20/98	B. Carson
3233	06/20/98	B. Carson
3233	06/20/98	B. Carson
3233	06/20/98	B. Carson
3232	06/19/98	B. Carson
3232	06/19/99	B. Carson
2268	08/29/90	R. Embley
2268	08/29/90	R. Embley
2267	08/28/90	R. Embley
2264	08/24/90	R. Embley
2263	08/23/90	R. Embley

ALVIN Photographs

Description: Rock overhang



Dive#: 3245
Date: 07/15/98
Depth in meters: 1235
Camera: 2
Location: Axial Volcano
Scientist: J. Cowen
Filename: 3245-2-142907.jpg
Notes:



HIGHER RESOLUTION PHOTO ACQUIRED BY CLICKING ON THE IMAGE ABOVE IN THE BROSWER PAGE