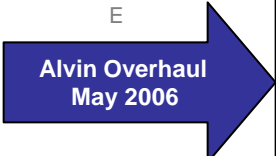


2005 ALVIN Schedule

NDSF Operator's Report

DESSC
December 2005

JAN		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
INSPECTION	TRANSIT	KARSON WALDEN (ENG. DIVE) Jason II DSL-120 PITO DEEP	VRIJEN-HOEK VAN DOVER S. PAC	TRANSIT - Easter I - Manzanillo	LUTZ TOLSTOY SHANK LUTHER EPR	SHANK GALAPAGOS RIDGE NOAA	BROWN HILTON COSTA RICA Ridge	TRANSIT Puntarenas - San Diego	HICKEY JdF NON-ALVIN	MAINTENANCE SEATTLE	BOOKSH SEYFRIED TIVEY WALDEN JdF	BECKER COWEN JdF	TRANSIT SEATTLE - WOODS HOLE	BABB NEW ENGLAND NOAA	ALVIN OVERHAUL WOODS HOLE

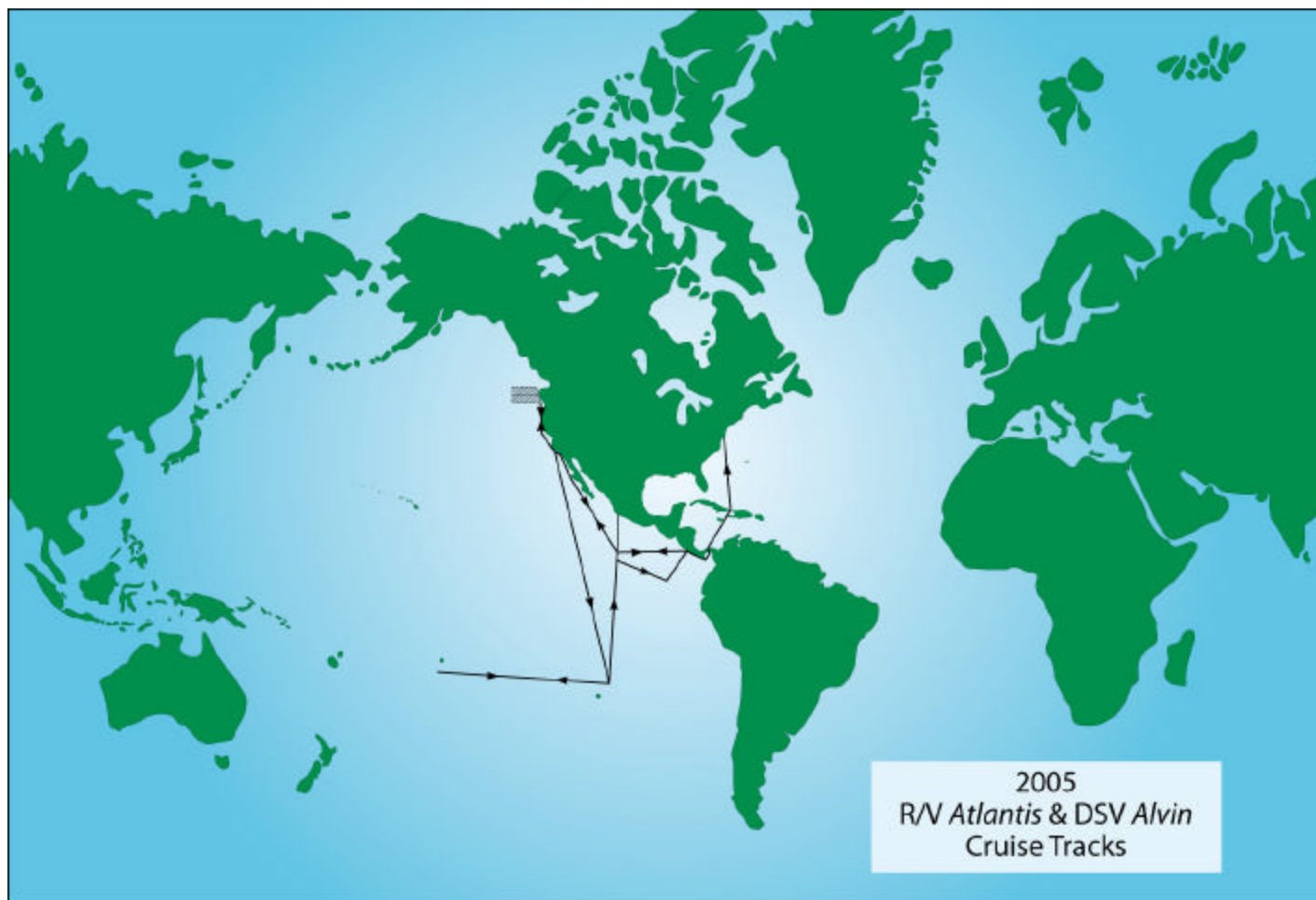


NSF	232
NAVY	1
NOAA	29
OTHER	<u>9</u> (WHOI & COMRA)
TOTAL DAYS	271



2005 *ALVIN* Operation Areas

NDSF Operator's Report



2005 *Alvin* Operations Summary

National Deep Submergence Facility Operator's Report

- **278 operating days**
- **8 science cruises**
- **101 days on station**
- **85 dives**
- **15 dives lost**
(10 weather, 3 medical emergency, 2 ship-related)
- **677 hrs submerged (28 days)**
- **8.0 hrs avg/dive**
- **433 hrs on bottom (18 days)**
- **5.1 hrs avg bottom time/dive**
- **2,443 m average depth**
- **\$1.9M budget**



Current Ops Group:

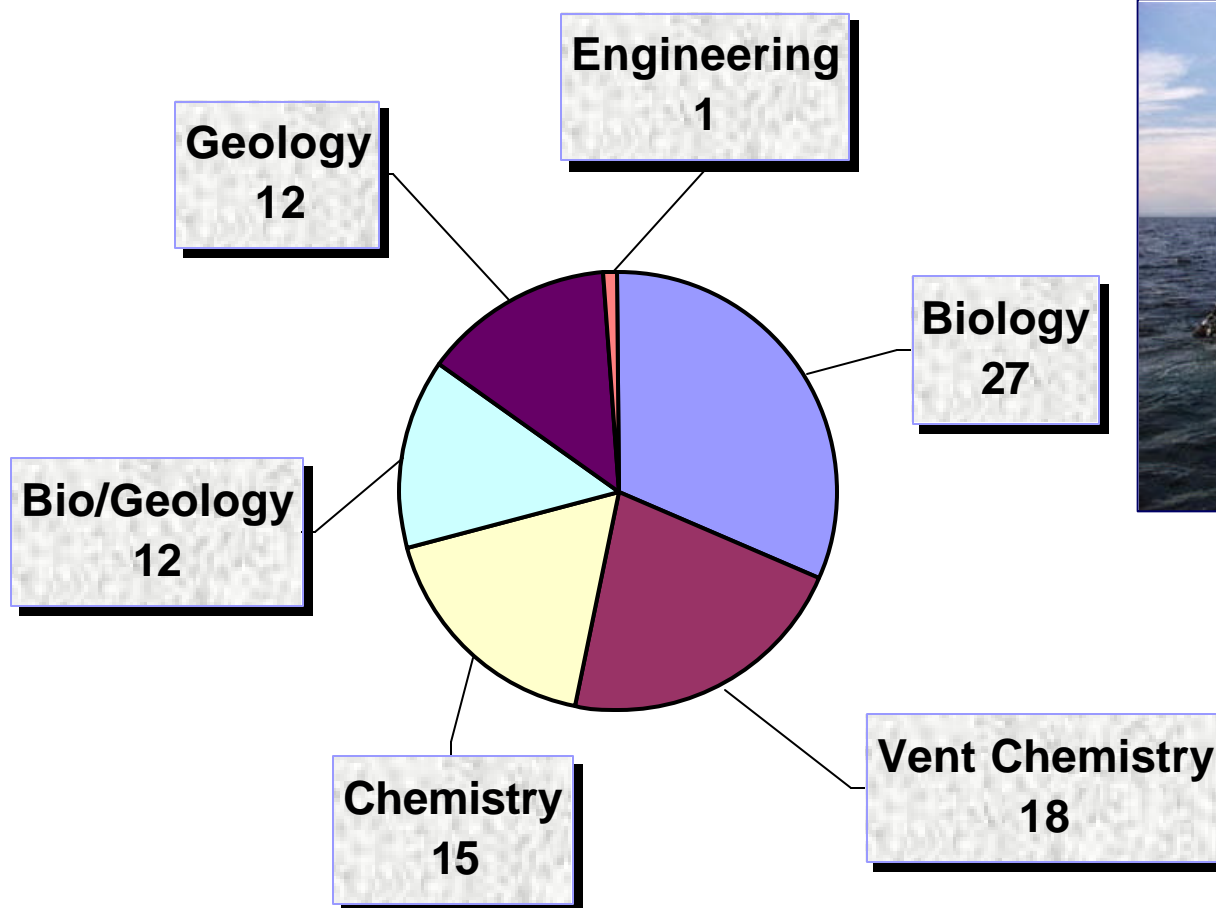
4 pilots

3 technicians



2005 *Alvin* Dive Discipline Breakout

National Deep Submergence Facility Operator's Report



Alvin Overhaul Disassembly Time Lapse

National Deep Submergence Facility Operator's Report

Wed Nov 2 8:00:00 AM 2005



2005 ROV Schedule NDSF Operator's Report

DESSC
December 2005

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	KARSON WALDEN		TIVEY Meg WALDEN	VRIJEN HOEK VAN DOVER	C H I L D R E S S			KELLEY WALDEN	M c D U F F	S M I T H	H A Y M O N
	ALVIN JASON II DSL-120 PITO DEEP R/V ATLANTIS		JASON II Eng Dive LAU BASIN R/V MELVILLE	JASON II LAU BASIN R/V MELVILLE	JASON II LAU BASIN R/V MELVILLE			JASON II Eng Dive JdF R/V THOMPSON	JASON II JdF R/V T H O M P S O N	JASON II So. Cal R/V T H O M P S O N	DSL-120 MEDEA GALAPAGOS RIFT R/V THOMPSON



NSF
Washington State
TOTAL DAYS

184
17
201



2005 ROV Operation Areas NDSF Operator's Report



2005 ROV Operations Summary

National Deep Submergence Facility Operator's Report

- 201 operating days
- 6 science cruises, 1 to go
- 67 lowerings
 - ✍ 66 *Jason*, 1 *DSL120* sonar
- 1,100 hrs on bottom (46 days)
- Longest *Jason* dive to date: 60 hrs
- Single *DSL120* dive of 104 hrs
- Highlights:
 - ✍ Upgraded *Medea*: additional telem/control, added 2 thrusters
 - ✍ Added Insite DSC on science pan & tilt
 - ✍ Tested components of new suction sampler
 - ✍ Operated rock drill
 - ✍ Supported HiDef video camera (*Visions '05*)
 - ✍ ABE rescue



Other NDSF Vessel Operations

National Deep Submergence Facility Operator's Report

NDSF Support Ships

- Extensive use of *Melville* and *Thompson*
- Scheduling has been smooth
- *Jason* test on *Kilo Moana* -- Fall 2006



Major 2006 Shipyard Projects for *Atlantis*

NDSF Operator's Report

February – March 2006

- Overhaul bow thruster (*address vibration issues*)
- Repair Hydro Lab deck (*sound insulating false deck*)
- Tank repairs and inspections (*routine maintenance*)
- Routine underwater body preservation and coating of bottom and freeboard
- A-frame maintenance, including climber rail



2006 SSSE Proposal – *Atlantis*

NDSF Operator's Report

Requesting in Dec '05 proposal for *Atlantis*:

- **New Kongsberg DP system**
- **New Isotope van**
- **Winch slip ring assemblies (ROV Use)**

