

# APPENDIX VI

## Summary of 1997 ALVIN/ROV Requests

Listing of [ROV Letters of Intent](#) - Summary 1997 and Beyond

[MAP](#) of ROV Areas of Interest

Listing of ALVIN Letters of Interest - Summary 1997 and Beyond, [Page 1](#) and [Page 2](#).

[MAP](#) of ALVIN Areas of Interest

Details of ALVIN/ROV Letters of Interest - Summary 1997- 1999

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[WHOI](#) individual scientists ROV requests 1996 - 1997

ALVIN 1996 [Highlights](#)

[1996 ALVIN/ROV Operations](#)

[1997 ATLANTIS/ALVIN/ROV Operations](#)

## ROV Letters of Interest - Summary 1997 and Beyond

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>ATLANTIC</b>					
3	Sempere	37			
4	Smith	24			
6	Fornari	8			
9	Smith (use of UK TOBI Veh.)	33			
<b>Total</b>		<b>102</b>	<b>0</b>	<b>0</b>	<b>0</b>

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>MEDITERRANEAN</b>					
12	Ballard, Yoerger/, indell	21	0		
<b>Total</b>		<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>JUAN DE FUCA</b>					
13	Becker		6		6
14	Chadwick	4		9	
15	Delaney	33		27	
17	Lilley/Mottl	21			
<b>Total</b>		<b>58</b>	<b>6</b>	<b>36</b>	<b>6</b>

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>PRINCE WILLIAM SOUND</b>					
20	Cowan (ROV Not identified)	28			
<b>Total</b>		<b>28</b>	<b>0</b>	<b>0</b>	<b>0</b>

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>NORTH EAST PACIFIC RISE</b>					
26	Carbotte, Ryan, Fornari	32			
27	Lutz		23		46
<b>Total</b>		<b>32</b>	<b>23</b>	<b>0</b>	<b>46</b>

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>EQUATORIAL PACIFIC</b>					
33	Karson, Klein, Hurst, et al	15			
34	Detrick (Canadian ROBOS)	16			
<b>Total</b>		<b>31</b>	<b>0</b>	<b>0</b>	<b>0</b>

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>SOUTH EAST PACIFIC RISE</b>					
36	Hey/Baker/Lupton	29			
41	Sinton	2.5			
<b>Total</b>		<b>32</b>	<b>0</b>	<b>0</b>	<b>0</b>

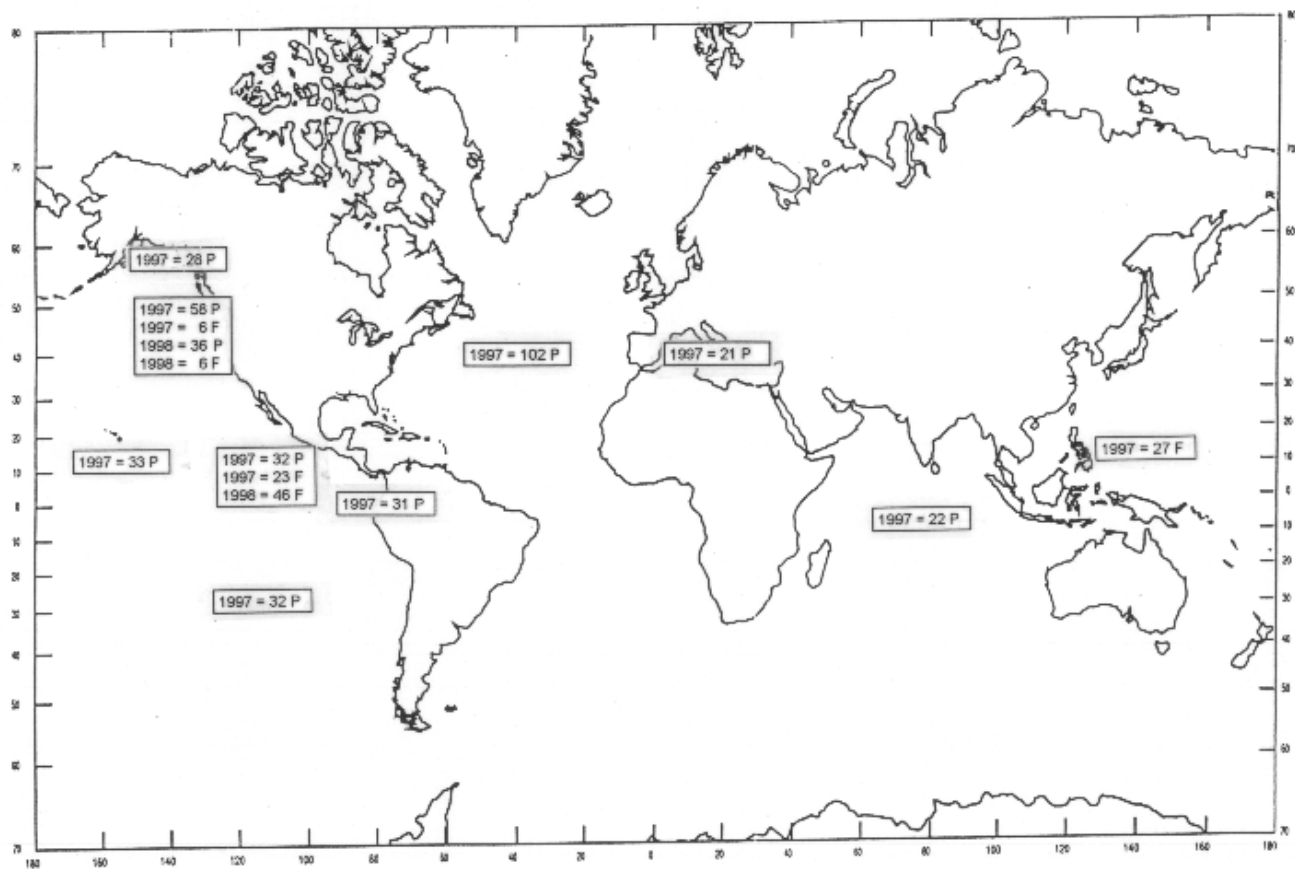
		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>Hawaii</b>					
43	Chave, Butler, et al				10
44	J.R. Smith	7			
45	Smith, Long, Parfitt, Gregg	26			
<b>Total</b>		<b>33</b>	<b>0</b>	<b>0</b>	<b>10</b>

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>WESTERN PACIFIC</b>					
50	Fryer		27		
<b>Total</b>		<b>0</b>	<b>27</b>	<b>0</b>	<b>0</b>

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>INDIAN OCEAN</b>					
51	Dick (Canadian ROBOS)	22			
<b>Total</b>		<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>SUMMARY</b>					
<b>Total</b>		<b>359</b>	<b>56</b>	<b>36</b>	<b>62</b>

# ROV AREAS OF INTEREST - 1997 AND BEYOND



## ALVIN Letters of Interest - Summary 1997 and Beyond

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>ATLANTIC</b>					
1	Calder			2	
2A	Chave, Van Dover, Tyson		6		
22ALT	Lutz, Delaney, Humphris			12	
5	Rona, Kleinrock, Tivey	10			
6	Fornari	4			
7	Johnson, Tivey, Honnorez	21			
8	Vrijenhoek, Lutz	14			
10	Becker				2
52	Martin		12		
<b>Total</b>		<b>49</b>	<b>18</b>	<b>14</b>	<b>2</b>

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>ROMANCHE TRENCH</b>					
11	Bonarti		16		
<b>Total</b>		<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>JUAN DE FUCA</b>					
2B	Chave, Van Dover, Tyson		6		6
13	Becker, Davis, Pettigrew		8		8
16	Karsten	10			
18	Tivey, Bradley	5			
19	Seyfreid, Tivey	3		3	
<b>Total</b>		<b>18</b>	<b>14</b>	<b>3</b>	<b>14</b>

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>S. CAL/SAN DIEGO TROUGH</b>					
21	Smith, DeMaster		3		
<b>Total</b>		<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>NORTH EAST PACIFIC RISE</b>					
22	Lutz, Delaney, Humphris			12	
23	Mullineaux, Peterson, Fisher	14		10	
24	Manahan, Mullineaux, Young	10		20	
25	Mann, Manahan, Mullineau, Yo	28		63	
28	Tolstoy, Orcutt, Fornari	8		4	
29	Childress	6		6	
30	Taylor, Wirsén	5			
31	Felbeck, Childress, Fisher, Lutz	10			
32	Cary, Epifanio, Dittel	4		8	
<b>Total</b>		<b>85</b>	<b>0</b>	<b>123</b>	<b>0</b>

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>EQUATORIAL PACIFIC</b>					
33	Karson, Klein, Hurst, Gillis, Ma	15			
<b>Total</b>		<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>SOUTH EAST PACIFIC RISE</b>					
2B ALT	Chave, Van Dover, Tyson				4
32 ALT	Cary, Epifanio, Dittel	4		8	
35	Edmond			30	
37	Lilley, VonDamm		27		
38	Lupton	25			
39	Lutz, Vrijenhoek			14	
40	Mullineaux, France			8	
41	Sinton	21			
42	Childress			6	
<b>Total</b>		<b>50</b>	<b>27</b>	<b>66</b>	<b>4</b>

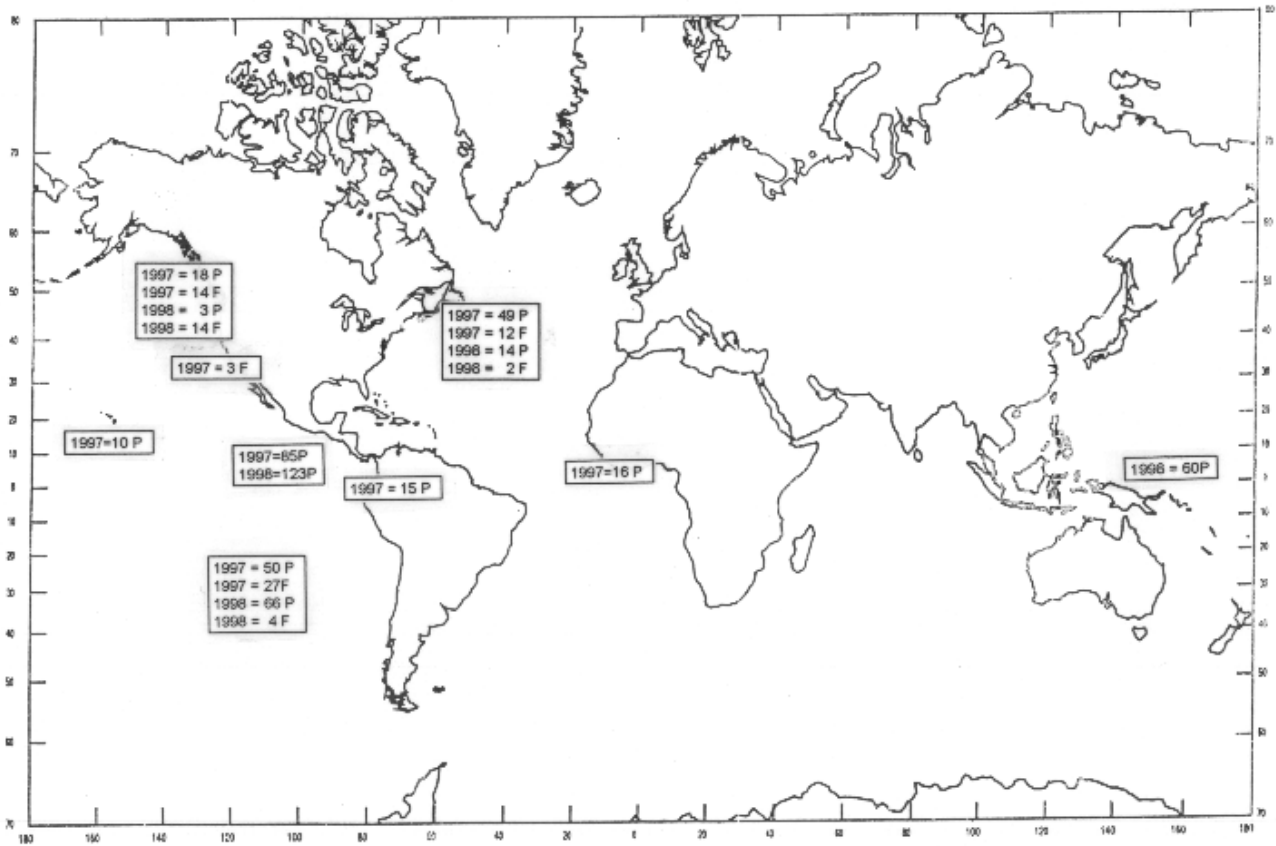
### ALVIN Letters of Interest - Summary 1997 and Beyond (Cont'd.)

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>HAWAII</b>					
46	Garcia, Rhodes, Kurz	10			
<b>Total</b>		<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>

		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
<b>WESTERN PACIFIC</b>					
47	Perfit et al.			20	
48	Stem			20	
49	Stem, Cleft			20	
<b>Total</b>		<b>0</b>	<b>0</b>	<b>60</b>	<b>0</b>

<b>SUMMARY</b>		1997	1997	1998 +	1998 +
		Prop.	Funded	Prop.	Funded
		<b>243</b>	<b>62</b>	<b>266</b>	<b>20</b>

# ALVIN AREAS OF INTEREST - 1997 AND BEYOND



## ALVIN/ROV Letters of Interest - Summary 1997 - 1999

#	Source	Investigator	Area	Title	Sponsor	Date	Alternate	Dives	Platform/Remarks	Disc.
1	reconfirm	D. Calder, ROM	Bermuda Pedestal	Bathymetric zonation of hydroids, from shallow waters to deep-sea, at Bermuda	Canada	Jul-Aug 1997/8		2	ALVIN	Biol.
2A.	831 7/21/95	A. Chave, WHOI C. Van Dover, U.Alask J. A. Tyson, AT&T	32 35'N, 64 55' W MAR TAG/Snakepit hydrothermal areas	ALISS: Ambient light Imaging and Spectral System	Sub 10/15/95 NSF FUNDED OCE 9407774	Oct-Nov 1997	Jan-Feb 1998	6	ALVIN	Biol.
3	831 8/9/96	J.-C. Sempere, UW	MAR, 29 N	Fine-scale segmentation and structural variability within a slow-spreading segment	NSF RIDGE	1997		37	DSL-120 AGOR II	G&G
4	831 8/11/95	D. K. Smith, WHOI S. Humphre, WHOI W. Bryan, Whoi M. Tivey, WHOI	25 35'N, 45 05'W, 24 50'N, 45 30' W, 25 55 N, 45 05'W, 25 15 N, 45 25 W	Linking Morphology, Petrology and Geochemistry to understand crustal construction at the Mid-Atlantic Ridge	NSF RIDGE	Feb - Jul 1997		24	AMS 120 & ARGO II	G&G
22 Alt	No 831	R. Lutz, Rutgers J. Delaney, UW S. Humphre, WHOI	TAG - MAR or 9-10 NEPR	Research and Educational Opportunities Associated with Production of an IMAX documentary on Deep-Sea Hydrothermal Vents	NSF Sub 11/96	Feb-Jun 1998		12	ALVIN	Biol.
5	831 5/14/96	P. Bona, Rutgers Kleinrock, Vanderbilt M.A. Tivey, WHOI	TAG 26N, 45 W	TAG Relict Hydrothermal Zones: Role in Evolution of the TAG field	NSF sub 2/15/96	1997		10	ALVIN	G&G
6	831 2/14/96 NEW	D.J. Fornari, WHOI	32 N, 64 30'W 36-38 N, 30-31 W	Science Testing of UNOLS Integrated Deep Science on R/V ATLANTIS: Sequential use of vehicle systems for data acquisition	NSF	Jun 1997	JUL 1997	4 5 days 3 days	ALVIN, MEDEA-JASON 120 kHz Sonar	other
7	831 2/6/96 NEW	H.P. Johnson, U Wash M Tivey, WHOI J Honnorez, Strasbourg	10-12 N, 43 W	A geophysical study of a vertical section of ocean crust: the southern transverse ridge of the Vema Fracture Zone	NSF			21	ALVIN	G&G
8	NEW No 831	R.C. Vrijenhoek, Rutge R.A. Lutz, Rutgers	14 46'N 37 36'W	Gene Flow and Species Diversity in Deep-Sea Hydrothermal Vent Communities	NSF	1997	1998	14 Dives	ALVIN	Biol.
9	831 2/12/96 NEW	D.K. Smith, WHOI S. Humphre, WHOI M. Tivey, Whoi I. Parson, SOC W. Bryan, WHOI	MAR 35 N	Geological and Geophysical Investigation of Two Constricting Segments at the Mid-Atlantic Ridge, 35 Degrees N	NSF	Feb-Jul 97		33 Days	UK Tobi Vehicle	G&G
10	NEW MSG 1/22/96	K. Becker, RSMAS	MAR	Instrumented Borehole 385A Seals	NSF FUNDED	1998	1999	2	ALVIN	Other
52	831 10/20/94	W. Martin, WHOI	NW Atlantic	Benthic Fluxes and Sediment Irrigation on the Continental Margin, NW Atlantic	NSF FUNDED	Jul-97	Jun, Aug 97	12	ALVIN	Chem.

## ALVIN/ROV Letters of Interest - Summary 1997 - 1999

#	Source	Investigator	Area	Title	Sponsor	Date	Alternate	Dives	Platform/Remarks	Disc.
<b>ROMANCHE TRENCH</b>										
11	831 8/30/95 NEW	E. Bonatti	Start 1N 15 W End 0 30'S 17 30"	A Submersible Study of Exposed Mantle Mesozoic Crust and Drowned Reefs of the Eastern Romanche RTI	NSF	1996	1997	16 Days	ALVIN	G&G
<b>MEDITERRANEAN</b>										
12	No 831	R.D. Ballard, Inst. for E D. Yoerger, WHOI D. Mindell, MIT	Straits of Sicily north of Skerki Bank	Exploration of the Straits of Sicily	ONR	Jun/Jul 1997		21	MEDEA-JASON	Other
<b>JUAN DE FUCA</b>										
28	831 7/21/95	A. Chave, WHOI C. Van Dover, U.Alaska J. A. Tyson, AT&T	Juan De Fuca Ridge	ALISS: Ambient light imaging and Spectral System	NSF FUNDED OCE 9407774	Jun-Jul 1998	Jul-Aug 1998	6	ALVIN	Biol.
13	831 8/15/95	K. Becker, UM E. Davis, PGC T. Pettigrew, ODP	JDF Ridge - ODP 48 N, 129 W	Instrumented borehole seals for 1998 ODP drilling on the Juan de Fuca Ridge.	NSF ODP FUNDED	1) Sum 97 2) Sum 98		1) 8 Days 2) 8 Days	1) JASON 2) ALVIN	G&G
14	831 5/21/95	W. Chadwick, OSU	JDF Ridge, Clift Segment	Acoustic Extensometer: A seafloor Observatory Experiment	NSF RIDGE sub R/15/95	1) Sum 1996 2) Sum 1997 3) Sum 1998 4) Sum 1999 5) Sum 2000		1) 12 2) 4 3) 3 3) 3 3) 3	MEDEA-JASON (Could be added on to P. Johnson 1996 Cruise)	G&G
15	831 3/1/96	J.R. Delaney, UW	ROBE sites 44 N 130 W 44 N 129 W	Spatial Control for Temporal Variability Studies: 3-D Multiscale Mapping of seafloor features and Water Column Plumes within the RIDGE observatory (ROBE) sites.	NSF	Jul 15-Aug 1 1997 1998	Jul 15-Sep 15 1997 1998	33 27	JASON, DSL 120	G&G
16	831 2/20/96	J. Karsten, UH J. Head, Brown et al	Endeavor Seg. JDF 48 N, 129 W	Submersible and petrologic study of the recent magmatic history of the Endeavour Segment, Juan de Fuca Ridge: Establishing a time-series of ridge axis volcanism.	NSF Sub 2/15/96	Summer 1997		10	ALVIN	G&G
17	831 3/19/95	M.D. Lilley, UW M. Mottl, UH et al.	1) JDF, 48 N Middle Valley ) Escanaba Trough Gorda Ridge, 41 N	Temporal variations in sedimented-ridge hydrothermal systems at Middle Valley and Escanaba Trough: an ROV study	NSF - MGG proposal ODP	late spring early sum '96 and Summer 87		1996 1) 14 2) 7 1997 1) 14 2) 7	JASON	G&G
18	831 2/14/95	M.A. Tivey, WHOI A. Bradley, WHOI	Juan de Fuca: 48N, 129W	Development of Flow Sensors for Active High and Low Temperature Seafloor Vents	NSF RIDGE	Jun-Sep 1997		6	ALVIN any active sites would be acceptable if ALVIN	G&G
19	NEW No 831	W.E. Seyfried, U of M. M.K. Tivey, WHOI	Endeavour Main Field 47 58'N 129W	In-situ Measurement and Monitoring of Dissolve H <sub>2</sub> , H <sub>2</sub> S, and pH in Mid-Ocean Ridge Hydrothermal Fluids	NSF	1997 1998		3 Dives 3 Dives	ALVIN ALVIN	G&G



## ALVIN/ROV Letters of Interest - Summary 1997 - 1999

#	Source	Investigator	Area	Title	Sponsor	Date	Alternate	Dives	Platform/Remarks	Disc.
<b>PRINCE WILLIAM SOUND</b>										
20	831. 8/3/95 NEW	E. Cowan, Appalachian R. Powell, No. Ill Univ	Prince William Sound 60 15' N 147 44" 59 56' N 139 35'	Collaborative Research: Sedimentary Forcing of Temperate Marine Glacier Behavior During Climate Change	NSF	May 15-30 97 Jul 15-30 97	Aug 1-15 97	14 Days 14 Days	Some ROV-not identified	G&G
<b>SOUTHERN CALIFORNIA/SAN DIEGO TROUGH/MONTEREY CANYON</b>										
21	No 831	C. R. Smith, U.H. D. DuMestre, NCSU	S. California 32d 12' N, 118d 30' W	Age dependent bioturbation of deep-sea sediments: tests at three bathyal sites.	NSF FUNDED OCF 9022116	Jul-Dec 1997	Jan - Mar 1998	4	ALVIN (MEDUSA-JASON if ALVIN not available)	Biol
<b>NORTH EAST PACIFIC RISE</b>										
22	No 831	R. Lutz, Rutgers J. Delaney, UW S. Humphris, WHOI	9-10 NEPR or D168TAG - MAR	Research and Educational Opportunities Associated with Production of an IMAX documentary on Deep-Sea Hydrothermal Vents	NSF Sub 11/96	Feb-Jun 1998		12	ALVIN	Biol
23	831 2/9/96 Reconfirm 5/20/96	L. Mullineux, WHOI C.H. Peterson, UNC C.R. Fisher, Penn S	9-10 N, EPR	Role of Larve Settlement, Species Interactions and Physiological Adaptations in colonization and Community Development of Hydrothermal Vents	NSF sub 2/96	Oct-97 Oct-98		14 10	ALVIN	Biol
24	831 2/15/95	D. Manahan, USCal L. Mullineux, WHOI C. Young, HSOI	9-10 N, EPR	Dispersal Potential Hydrothermal Vent Animals: Larval Energetics, Depth regulation and Field Distribution	NSF RIDGE Sub 2/96	1) late 1997 2) 1998 3) 1999		1) 10 2) 10 3) 10	ALVIN	Biol.
25	831 2/14/96 NEW	R. Mann, VIMS D. Manahan, USC L. Millineau, WHOI C. Young, WHOI S.C. Cary, U Del	9-10 N, EPR	Quantitative studies of temporal and spatial variability in reproduction of communities associated with hydrothermal vents	NSF	1) Oct 97 2) Mar 98 3) Oct 98 4) Oct 98		28 21 21 21	ALVIN	Biol.
26	831 2/19/95 NEW	S. Carbotte, LDEO W.B.F. Ryan, LDEO D. Fornari, WHOI	9 30' N 104 30' W	Collaborative research: Exploiting high resolution Digital elevation models and imagery to study deformation and volcanic processes at a fast spreading ridge	NSF	Oct-Dec 97	Jan-May 98	32 Days	dag-120kHz sonar	G&G
27	NEW No 831	R.A. Lutz, Rutgers	9 50' N EPR	Temporal Changes in Biological Community Structure and Associated Geological Features at Newly-Formed Hydrothermal Vents on the EPR	NSF FUNDED	1) 1997 2) 1998 3) 1999		23 23 23	JASON/MEDIA	Biol
28	831 2/19/95 NEW	M. Tolatey, SIO J. Orcutt, SIO D.Fornari, WHOI	9 51' N 104 17' W	An experiment of measureground deformation at a fast spreading Mid-Oceanridge	NSF RIDGE	1) Oct-Dec 97 2) Oct-Dec 98	Jan-May 98 Jan-May 98	8 Dives 4 Dives	ALVIN ALVIN	G&G G&G
29	NEW No 831	J.J. Childress UCSB	9 & 13 N EPR	Studies on the Ecological Physiology of Hydrothermal Vent chemoautotrophic	NSF RIDGE	1997 1998		6 Dives 6 Dives	ALVIN ALVIN	Ecog.

## ALVIN/ROV Letters of Interest - Summary 1997 - 1999

#	Source	Investigator	Area	Title	Sponsor	Date	Alternate	Dives	Platform/Remarks	Disc.
30	B31 12/19/95 NEW	C. D. Taylor, WHOI C.O. Wirren, WHOI	9 51'N 104 17.5' NEPR	Microbiology and Ecology of filamentous sulphur formations	NSF RIDGE	?	?	5 Dives	ALVIN	Biol.
31	B31 2/9/95 NEW	H. Fulbeck, SID Childress, UCSB Fisher, Penn State Lutz, Rutgers	N EPR	Metabolic Characterization of a Symbiotic System, the Hydrothermal Vent Tubeworm Riftia Pachyptile	NSF	1997		10 Dives	ALVIN	Biol
32	B31. 2/14/96 NEW	S. Cary, U Del C. Epifanio, U Del S. Dittel, U Del	9 50'N 104 17'W	Reproduction, Dispersal, and Recruitment of Hydrothermal Vent Crabs: a Tractable System	NSF	Nov-97 May-98 Nov-98	Oct-97 Jun-98 Oct-98	4 4 4	ALVIN ALVIN ALVIN	Bio
<b>EQUATORIAL PACIFIC</b>										
33	B31 2/21/96 NEW	J.A. Karson, Duke E. Klein, Duke S. Hunt, Duke K. Gillis, U Vic. (Canada) C. Macleod, IOS (UK) J-L. Cheminee, U Vic (Canada)	Hees Deep 2 22' N, 101 17'W	Jason/Media and ALVIN investigation of the Uppermost Oceanic Crust of Hees Deep	NSF	May-97	Jun-97	15 16	ALVIN Jason/Media	G&G
34	B31. 8/6/95 NEW	R. Detrick, WHOI M. Tracy, WHOI G. Christenson, UTIG M. Sen, UTIG K. Gillis, U of Victoria	Hees Deep 2 20'N 101 30'W	Origin of the Seismic Layer 2A/2B Boundary: Correlation of Geophysical Structure and Outcrop Geology in the Walls of Hees Deep	NSF	Feb-97	Jan-May 97	16 Days	Canadian Robos System	G&G
<b>SOUTHERN EAST PACIFIC RISE:</b>										
25 AL1	B31 7/28/95	A. Chave, WHOI C. Van Dover, U.Alaska J. A. Tyson, AT&T	SEPR - 17 S	ALISS: Ambient light imaging and Spectral System (This is alternative to item 2B)	NSF FUNDED OCE 9407774	Jan-Feb 1998	Mar-Apr 1998	4	ALVIN - Alternate for 9 N EPR site	Biol.
35	on file	J.M. Edmond, MIT	Southern EPR Easter Island and vicinity	Hydrothermal Studies on the Easter Microplate.	NSF 9312950	Austral Summer 1997/8		30	ALVIN	Chem
36	No B31	R. Hey, UH E. Baker, PMEL, NOAA J. Lupton, PMEL	S. EPR between Easter & Juan mandev microplate 28-32 S, 113-113 W	Hydrothermal and structural investigations along the fastest spreading center: The 28-32 S EPR reorganizing plate boundary.	NSF FUNDED	southern summer 1996/1997		29	120 KhZ side-looking Sonar	G&G
37	B31 6/10/94	M.D. Lilley, UW K.L. Von Dam, UNH I.E. Lupton, NOAA	17 S, 113 W 21 30 S, 113 W	Gas and fluid chemistry of hydrothermal systems on a superfast spreading center: Southern East Pacific Rise	NSF RIDGE FUNDED	1997		27	ALVIN	Chem

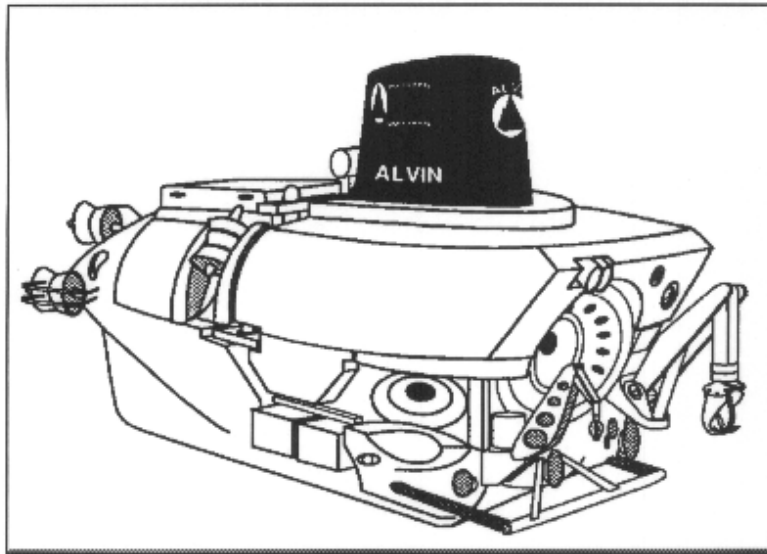
## ALVIN/ROV Letters of Interest - Summary 1997 - 1999

#	Source	Investigator	Area	Title	Sponsor	Date	Alternate	Dives	Platform/Remarks	Disc.
38	Letter 4/20/95	J. Lupton, NOAA	S. EPR 13.5 -20 S, 112-113	Investigation of hydrothermal systems This is in collaboration with the Japanese Ridge Flux Project.	NOAA NURP	Autstral Summer 1997-1998		25	ALVIN	G&G
39	No 831	R. Lutz, Rutgers R. C. Vrijenhoek, Rutg	17 22 S EPR	Gene Flow, Dispersal, and Systematics of Deep-Sea Hydrothermal Vent Organisms	NSF FUNDED will submit renewal 2/96	1996, 1997, 1998		14	ALVIN (may be able to use JASON)	Biol
40	No 831	L. Mullineaux, WHOI S. France, UNH	Sala y Gomez Ridge 22 S - East of Easter Is.	Genetic diversity and gene flow among populations of deep-seamount invertebrates	NSF	1998		6	ALVIN	Biol
41	Updated No 831	J. Sinton, U of Hawaii	16 40'S 113 24' W 17 25'S 113 13"W SEPR	Volcanological investigation of a superfast spreading ridge	NSF	Oct-97	Early 1998	21 Dives 2.5 Days	ALVIN DSL 120	G&G
42	No 831 NEW	J.J. Childress UCSB	18 & 20 S SEPR	Studies on the Ecological Physiology of Hydrothermal Vent chemoautotrophic	NSF RIDGE	1998		6 Dives	ALVIN	Ecog.
32ALT	831. 2/14/96 NEW	S. Cary, U Del C. Eoifanio, U Del S. Dittel, U Del	S EPR	Reproduction, Dispersal, and Recruitment of Hydrothermal Vent Crabs: a Tractable System	NSF	Nov-97 May-98 Nov-98	Oct-97 Jun-98 Oct-98	4 4 4	ALVIN ALVIN ALVIN	Bio
<b>HAWAII</b>										
43	831 2/10/95	A. Chave, WHOI R. Butler, IRIS Duennebaier, U Hawaii D. Yeager, WHOI J. Catipovic	Hawaii 2 Observatory 28 N, 140 W	Hawaii 2 Observatory - install a junction box and sensor on a submarine cable between Hawaii and California	NSF ARI FUNDED	Sep-98	Aug-98	10	JASON	EGR
44	No 831	J.R. Smith, U of Hawaii	Hawaii Hot spot 19 20N 155-157 W	High-resolution magneto-stratigraphic and U-series dating of giant submarine landslides and their correlation with explosive volcanism on the Hawaiian Hot Spot	NSF	Jan-Feb 97	Aug-Sep 97		ARGO II	G&G
45	831 2/12/96	D.K. Smith, U of Hawaii L. Long, U of Hawaii E. Parfitt, U of Leeds (UK) T. Gregg, WHOI	Puna Ridge 19 50' N 154 10' W	Understanding Volcanic Processes at the Submarine Puna Ridge	NSF	97/98		18 Dives 8 Days	DSL-120 AGRO-II	G&G
46	No 831 NEW	M. Garcia, U of Hawaii M. Rhodes, U of Mass M. Kurz, WHOI	Mauna Loa	Geology Evolution of Mauna Loa	NSF	Summer 199	Fall 1997	10 Dives	ALVIN	G&G

## ALVIN/ROV Letters of Interest - Summary 1997 - 1999

#	Source	Investigator	Area	Title	Sponsor	Date	Alternate	Dives	Platform/Remarks	Disc.
<b>WESTERN PACIFIC</b>										
47	831 2/15/96	M/R. Perfit, U. Fla K. Farley, Cal Tech B. McInnes, CSIRO D. Colodner, LDEO V. Tunnicliffe, U. Vic.	Solomon Is., Papua New Guinea S.W. Pacific	ALVIN Investigation of Hydrothermally Active Submarine Volcanoes in the New Ireland and Soloman Island Fore-arc, S.W. Pacific	NSF Imaybc ARC ReSub 1996	Fall 1998	Early 1999	20	ALVIN (possibly MEDEA-JASON & 120 KhZ Sonar)	G&G
48	No 831	R.J. Stern	13 15'N, 144 30 E 16 N, 145 40 E	Submarine Volcanism in the Southern Seamount Province of the Mariana Arc	NSF sub 2/15/96	TBA 1998?		20	ALVIN	G&G
49	No 831	R.J. Stern P. Cleft, WHOI	Mariana Trough 24 N, 141 E 22 n, 142E 22N, 143 E	Volcanic and Tectonic Activity in the Northern Mariana Trough - ODP Site Survey	NSF sub 2/15/96	TBA 1998?		20	ALVIN, ROV one site avoid Typhoon season	G&G
50	No 831	P. Fryer.	Mariana Arc	Survey of Mariana Arc	NSF FUNDED	1997	1998	27 Days		G&G
<b>INDIAN OCEAN</b>										
51	831 2/21/96 NEW	H. Dick, WHOI J. Natland, RSMAS J. Hirth, WHOI J. Robinson, Dalhousie et al	32 40'S 67 E	The Plutonic Foundation of a Very Slow-Spreading Ridge	NSF OPD	Jan-Feb 97	Prior Oct 97	22 Days	Canadian ROBOS	G&G





## *1996 Highlights*

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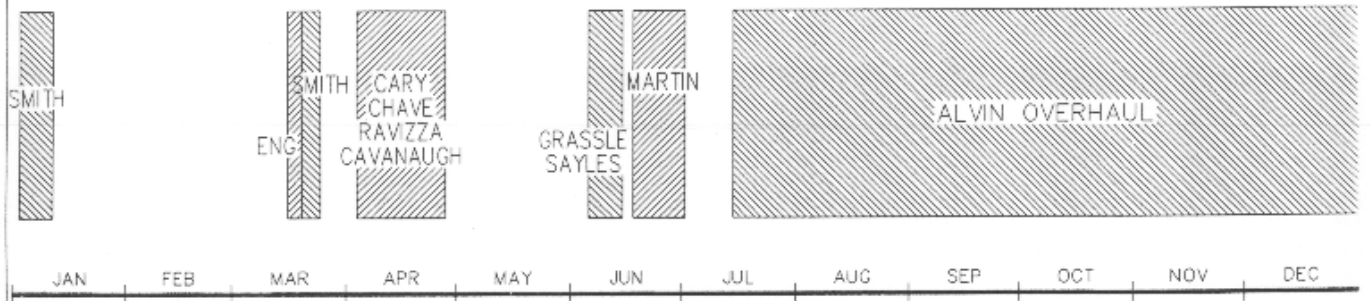
### ***So Far:***

- ✓ *4 cruises, January-April, in Pacific*
- ✓ *27 of 28 proposed dives completed*
- ✓ *4 engineering dives*

### ***Coming Up:***

- ✓ *2 cruises to the NW Atlantic  
Continental Margin (24 dives)*
- ✓ *Major overhaul*

## 1996 ALVIN OPERATIONS



## 1996 ROV OPERATIONS

1997

FEB    MAR    APR    MAY    JUN    JUL    AUG    SEP    OCT

ATLANTIS

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ALVIN

ALVIN OVERHAUL

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CERT  
&  
ENG  
DIVES

SCIENCE DIVES

ROV

DSL-120

HEY  
(R/V MELVILLE)

JASON

BALLARD  
(CAROLYN CHOUFESTE)

COMBINED  
SEA TRIALS  
(ATLANTIS)

(TBD)  
JASON  
BECKER  
(R/V THOMPSON)