

APPENDIX XVII

ALVIN/ROV Letters of Interest Summary

ALVIN AND ROV SUMS

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#	PI	97		97		98		98		98+		98+		98+	
		ALVIN	ROV	ALVIN	ROV	ALVIN	ROV	ALVIN	ROV	ALVIN	ROV	ALVIN	ROV	ALVIN	ROV
		PROP	FUND	PROP	FUND	PROP	FUND	PROP	FUND	PROP	FUND	PROP	FUND	PROP	FUND
ATLANTIC															
1	BLACKMAN	14		15											
2	RONA	10													
3	VRIJENHOEK/BRIDGE		20												
4	TUCHOLKE					15		13							
		24	20	15	0	15	0	13	0	0	0	0	0	0	0
MEDITERRANEAN															
5	BALLARD				21										
		0	0	0	21	0	0	0	0	0	0	0	0	0	0
GULF OF MEXICO															
6	ROBERTS					15									
7	AHARON					10		5							
8	MACDONALD										10			10	
		0	0	0	0	25	0	5	0	0	10	0	0	10	
JUAN DE FUCA															
9	EMBLEY			10											
10	BECKER				5										
11	KARSTEN	17													
12	COLLIER					20									
13	JOHNSON					12						5			
14	DELANEY			33				27							
-	CHADWICK				5										
-	JOHNSON				3										
		17	0	43	14	32	0	27	0	0	0	5	0		
OFF CALIFORNIA															
15	ECKMAN					12									
16	C.R. SMITH		4												
		0	4	0	0	12	0	0	0	0	0	0	0	0	0
NORTH EAST PACIFIC RISE															
17	FISHER				14										
18	FISHER						10								
19	CARBOTTE			36											
20	LUTZ		18												
21	LUTZ						11		12		11		12		
22	FORNARI	2													
23	TAYLOR/WIRSEN		5												
24	BALLARD					21		21							
25	FORNARI			5											
26	MEG TIVEY					20									
27	TOLSTOY					8									
28	VON DAMM	10				10					10				
29	CHAVE		6												
30	MULLINEAUX					10					10				
31	MANAHAN					6					16				
32	CHILDRESS		12												
		12	41	41	14	77	21	21	12	36	11	0	12		

GUAYMAS BASIN													
33	BALLARD					21		21					
		0	0	0	0	21	0	21	0	0	0	0	0
EQUATORIAL PACIFIC													
34	KARSON		15		5								
		0	15	0	5	0	0	0	0	0	0	0	0
SOUTHERN EAST PACIFIC RISE													
35	KLEINROCK					6		21					
36	HEY				12								
37	LILLEY						25						
38	FORNARI					2		3					
39	LUPTON					20							
40	LUTZ						14						
41	NAAR					18		12					
42	URABE						5						
43	SINTON		20		3								
44	VAN DOVER					3		7					
		0	20	0	15	49	44	43	0	0	0	0	0
HAWAII													
45	D.K. SMITH							25					
46	GARCIA					10							
47	CHAVE							10					
		0	0	0	0	10	0	25	10	0	0	0	0
WESTERN PACIFIC													
48	PERFIT					15		5					
49	TBA					6							
50	CLEFT						25						
51	FRYER				27								
-	DERBYSHIRE				47								
		0	0	0	74	46	0	5	0	0	0	0	0
INDIAN OCEAN													
52	FORNARI									15		15	
		0	0	0	0	0	0	0	0	15	0	15	0
		97	97	97	97	98	98	98	98	99+	99+	99+	99+
#		ALVIN	ALVIN	ROV	ROV	ALVIN	ALVIN	ROV	ROV	ALVIN	ALVIN	ROV	ROV
		PROP	FUND	PROP	FUND	PROP	FUND	PROP	FUND	PROP	FUND	PROP	FUND
	TOTALS	53	100	99	143	287	65	160	22	51	21	20	22

ALVIN/ROV Letters of Interest - Summary 1997 - 1999

#	Source	Investigator	Area	Title	Sponsor	Date	Alternate	Dives	Platform/Remarks	Disc.
ATLANTIC:										
1	web 12/6/96	D. K. Blackman, UCSD J. Karson, Duke D. Kelly, UW M. Zumberge, SIO	Atlantic Transform 30 N, 42 W	Structural mapping of the eastern Atlantic ridge-transform intersection high: an oceanic analog to continental core complexes?	NSF R/15/96 9618213	1997	1998	14 10 5	ALVIN Jason DSL-120	G&G
2	web 11/21/96	P. Rona, Rutgers Kleinrock, Vanderbilt M.A. Tivey, WHOI M. Hannington, GSC P. Herzig, Germany C. Lalou, CFR R. Lowell, GIT	TAG 26N, 45 W	Evolution of a Volcanic-hosted Hydrothermal System on a Slow-spreading Ocean Ridge: Relict Zones of TAG Hydrothermal Field	NSF Aug-96 9618961	except Sept 97/98		10	ALVIN	G&G
3	web 12/2/96	R.C. Vrijenhoek, Rutge R.A. Lutz, Rutgers P. Rona, Rutgers P. Tyler Southampton Alan & Eve Southward, Plymouth Marine Lab	between 38N and 14 deg 44' Menez Gwen, Lucky Strike, Rainbow, TAG, Broken Spur Snake Pit	Gene Flow and Species Diversity in Deep-Sea Hydrothermal Vent Communities(NSF) Shrimp Nutrition/Lipid Biomarker Studies (BRIDGE)	NSF 9633131 BRIDGE funded scheduled	Jun-Jul 97	Jul-Aug 97	20	ALVIN	Biol.
4	web 12/6/96	B. Tucholke, WHOI H. Dick, S. Allerton, G. Hirth, C. MacLeod, M. Tivey, J. Carr, J. Lin, J. Escartin	MAR 23N 45W and 27N, 44W	Geological geophysical investigation of metamorphic core complexes on the Mid-Atlantic Ridge	NSF Feb-97	May to Jul 1998	April or Aug-Sep 1998	15 5 8	ALVIN Argo-II DSL-120	G&G
MEDITERRANEAN										
5	paper form 11/28/95	R.D. Ballard, Inst. for F D. Yoerger, WHOI D. Mindell, MIT	Straits of Sicily north of Skerki Bank	Exploration of the Straits of Sicily	ONR funded	Jun/Jul 1997		21	MEDEA-JASON	Other
GULF OF MEXICO										
6	WEB 12/3/96	H. Roberts, LSU R. Carnay	Gulf of Mexico 28 deg 10'N, 15W 26 deg 22'N, 30 W	A test of Salt Tectonics Cold-Seep Model: Comprehensive sampling at seepage stratified sites in the Gulf of Mexico	NSF MMS Industry Feb/Mar 97	Jun 98	Jul/Aug 98	15	ALVIN	G&G

ALVIN/ROV Letters of Interest - Summary 1997 - 1999

#	Source	Investigator	Area	Title	Sponsor	Date	Alternate	Dives	Platform/Remarks	Disc
7	web 12/8/96	P. Aharon, LSU LSU: B.K. Sen Gupta, J.M. Larkin, H. Roberts M. Taviani, CNR H. Schwarcz, McMaster E. Aguayo-Camargo, UNAM	Gulf of Mexico central and northern	Reconstruction of the History of Hydrocarbon Seepage and Chemosymbiosis in the Deep Gulf of Mexico.	May/June 1997	Jul-Aug 1998	Oct-Nov 1998	10 5	ALVIN Jason	G&G
8	web 12/6/96	I. MacDonald, TAMU CR Fisher, WW Sager, D. Nelson, K Nelson, S. Nelson, J. Morse, RS Sasson, NI Guineaco	Green Canyon 27-27.5N, 92-91W Alaminos Canyon 26-26.5N, 95-94W	Stability and change in Gulf of Mexico Chemosynthetic Communities	MMS FUNDED 1435-01-96-CT	Jul-98	Jul-98	10 10	ALVIN Jason	G&G
JUAN DE FUCA										
9	web 11/27/96	R. Embley, NOAA/PME Chadwick Butterfield G. Massoth J. Lupton J. Baross R. Fealy	JDF 46 N 130 W	Multidisciplinary Studies to Understand Changes in the Hydrothermal Systems at Axial Volcano Induced by Volcanic Events	NURP 9/1/96	Aug-mar Sep 1997	Jan-Jul or late Sep 1997	10	Jason	Multi
10	web 12/6/96	K. Becker, UM E. Davis, PGC	Middle Valley, 48 27N, 128 43 W; Endeavor Ridge, 47 50N, 127 40W	Instrumented borehole seals for 1996 ODP drilling on the Juan de Fuca Ridge Service 6 ODP borehole instruments in Middle Valley and east flank of Endeavor Ridge	NSF ODP FUNDED 9530426	late Aug/Sep 1997	June 1997	6	Jason	G&G
11	web 11/26/96	J. Kasten, UH J. Head, Brown V. Robigou-Nelson K. Rubin	Endeavor Seg. JDF 48 N, 129 W	ALVIN Submersible Investigation of Volcanic Processes at the Endeavor Segment, JDF Ridge: Consequences of Magma supply variations at intermediate spreading rate ridges.	NSF 8/15/96 9618400	Summer 1997	summer 98	17	ALVIN	G&G
12	paper form 10/25/96	R. Collier, OSU G. Klinkhammer, OSU M. Tamres, OSU J. McManus, OSU	Off Newport, OR 50km 44 N, 125 W	Proposals to support dives for TECFLUX program. Continental Margin 50-100 km from Newport, OR	NSF 2/15/97	Jun/Jul 98 Aug/Sep 98		10 10	ALVIN ALVIN	
13	e-mail 12/6/96	P. Johnson, UW J. Cowen, UH	JDF	Study to sub-surface biochem.	NSF submitted 9618284	summer 98 summer 99		12 5	ALVIN Jason	G&G
14	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	ul 15-Aug 1 1997 1998	Jul 15-Sep 15 1997 1998	33 27	JASON, DSL 120	G&G

ALVIN/ROV Letters of Interest - Summary 1997 - 1999

#	Source	Investigator	Area	Title	Sponsor	Date	Alternate	Dives	Platform/Remarks	Disc.
SOUTHERN CALIFORNIA/SAN DIEGO TROUGH/MONTEREY CANYON										
15	web Nov-96	J. Eckman, Skid D. Thistle W. Burnett	San Diego Trough 32 deg 51' N, 117 deg 46' W	Evaluation impacts of predation by large, motile epifauna on macrofauna and meiofauna in the deep sea: a test of cage performance	NSF 9616676 Jul-96	Jan-98 Apr-98	Jan-Apr 98 3-6 mo. later	6 6	ALVIN ALVIN	Biol
16	paper form 11/24/95	C. R. Smith, U.H. D. DeMaster, NCSU	S. California 32d 12' N, 118d 30' W	Age dependent bioturbation of deep-sea sediments; tests at three bathyal sites.	NSF FUNDED OCE 9022116 scheduled	Jul-Dec 1997	Jan - Mar 1998	4	ALVIN (MEDEA-JASON if ALVIN not available)	Biol
NORTH EAST PACIFIC RISE										
17	Web 11/18/96	C. Fisher, Penn K. Juniper V. Tunnicliffe	Endeavor Seg JDF Ridge 44 N, 130 W	Primary production and nutritional interactions in vestimentiferan aggregations on the Juan de Fuca Ridge	NSF FUNDED 9633105	Aug-97	Sep-97	14	Jason	Biol
18	Web 11/18/96	C. Fisher, Penn K. Juniper V. Tunnicliffe D. Nelson	Endeavor Seg JDF Ridge 44 N, 130 W	Primary production and nutritional interactions in vestimentiferan aggregations on the Juan de Fuca Ridge	NSF FUNDED 9633105	Jul, Aug 98/99	Jun, Sep 98/99	10	Alvin	Biol
19	Web Nov 96	S. Carbotte, LDEO W. Ryan, LDEO D. Fornari, WHOI C. Kessler, UNH P. Cowie, Edinburg	EPR 9 deg 30' N and 10 deg 35' N	DSL 120 sensor survey of two contrasting segments of the EPR crest and flanks near 9 deg 30' N and 10 deg and ROV Jason surveys along transects across the crest and flanks in both survey areas.	NSF RIDGE Aug 96	Nov-Dec 97	Jan-May 98	6 30	Jason DSL-120	G&G
20	web 12/3/96	R.A. Lutz, Rutgers T. Shanks, Rutgers	9 51' N EPR	Temporal Changes in Biological Community Structure at Nascent Hydrothermal Vents on the EPR Crest	NSF FUNDED 9529819	Oct 97	Nov-97	18	ALVIN	Biol
21	web 12/3/96	R.A. Lutz, Rutgers T. Shanks, Rutgers	9 50' N EPR	Temporal Changes in Biological Community Structure at Nascent Hydrothermal Vents on the EPR Crest	NSF FUNDED 9529819	Oct 98 Oct-99	Nov-98 Nov-99	11/12 11/12	ALVIN/Jason ALVIN/Jason	Biol
22	web 11/13/96	D. Fornari, WHOI R. Lutz, Rutgers K. Von Damm, UNH M. Lilley, UW	EPR 9 deg 50' N	Redeployment of self-recording temperature probe arrays at high- and low-temperature vent sites in the Bio-Geologic Transect on the East Pacific Rise crest 9 deg 49'-51' N	NSF RIDGE Feb-97	Oct-Dec 97		2	ALVIN	G&G
23	web 11/19/96	C. D. Taylor, WHOI C. O. Wirsen, WHOI E. DeLong, UCSB	9 - 10 N NEPR	Microbiology and Ecology of filamentous sulphur formations	NSF IBN 9630054 funded scheduled	Nov-Dec 1997	Mar-Apr 1998	5 Dives	ALVIN	Biol.

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24	Web Nov-98	R. Ballard, IFE H. Jannasch R. Lutz Meg Tivey F. Grassle	Guaymas Basin and/or EPR 21 N	JASON Project - Inet for Exploration Exhibition Center Hydrothermal Vent Systems and Plate Tectonics	ONR Aug-98	Apr-98	Jan-Mar 1998	21 21	ALVIN Jason	Other
25	web 11/13/98	D. Fornari, WHOI R. Haymon, UCSB	EPR 9-10 N, 104 W	DSL-120 sonar imaging of the axial summit caldera of te EPR 9 - 10 N	NSF RIDGE Aug-98	Nov-Dec 97	Jan-May 98	5	DSL-120	G&G
26	web 12/2/98	Meg Tivey, WHOI D. Kaelko, U.Miami A. Schultz, UK D. Butterfield, NOAA	Endeavor 48N, 129W	Monitoring Short-term Variability of Fluid Flow from the ROSE site	NSF RIDGE 9618262 Aug-98	Jun-98 Sep-98	Jul-98 Oct-98	12 8	ALVIN ALVIN	G&G
27	web 12/8/98	M. Toletoy, LDEO D. Fornari, WHOI J. Orcutt, SIO F. Wyatt, SIO	NEPR 9 50N, 104 17W	Installation of sea floor tilt meter arrays along and across the EPR axis over a known area of recent volcanism and hydrothermal activity	NSF Feb-97	Nov97 to Jun-98	Nov-98 Jun-99	8	ALVIN	G&G
28	831 9/9/98	K. Von Damm, UNH M. Lilley, UW	NEPR 9 50N, 104W	The Geochemical relationship between coupled high temperature and diffuse flow and related biological communities.	NSF RIDGE Sep-98 9618614	fall 97 fall 98 fall 99		10 10 10	ALVIN ALVIN ALVIN	Geo- chem
29	831 7/21/98	A. Chave, WHOI C. Van Dover, U. Alaska J. A. Tyson, AT&T	NEPR	ALISS: Ambient light Imaging and Spectral System	NSF FUNDED OCE 9407774 SCHED	Oct-Nov 1997	Jan-Feb 1998	6	ALVIN	Biol.
30	e-mail 12/10/98	L. Mullineaux, WHOI C.H. Peterson, UNC C.R. Fisher, Penn S	9 50N, 104W	Role of Larve Settlement, Species Interactions and Physiological Adaptations in colonization and Community Development of Hydrothermal Vents	NSF sub 2/97	1) win/spr 98 2) year later		10 10	ALVIN ALVIN	Biol
31	e-mail 12/10/98	D. Manahan, USCal L. Mullineaux, WHOI C. Young, HDOI	9 50N, 104W	Dispersal Potential Hydrothermal Vent Animals: Larval Energetics, Depth regulation and Field Distribution	NSF RIDGE Sub 2/98	1) feb 98 2) feb 99 3) oct 99		8 8 8	ALVIN ALVIN ALVIN	Biol.
32	e-mail 5/2/98	J.J. Childress UCSB	9 & 13 N EPR	Studies on the Ecological Physiology of Hydrothermal Vent chemoautotrophic	NSF RIDGE 9632861	1997		12	ALVIN	Ecog.

ALVIN/ROV Letters of Interest - Summary 1997 - 1999

#	Source	Investigator	Area	Title	Sponsor	Date	Alternate	Dives	Platform/Remarks	Disc.
Guaymas Basin										
33	Web Nov-95	R. Ballard, IFE H. Jannasch R. Lutz Moj Tivey F. Grassle	Guaymas Basin and/or EPR 21 N	JASON Project - Inst for Exploration Exhibition Center Hydrothermal Vent Systems and Plate Tectonics	ONR Aug-96	Apr-98	Jan-Mar 1998	21 21	ALVIN Jason	Other
EQUATORIAL PACIFIC										
34	web 12/10/96	J.A. Karson, Duke E. Klein, Duke S. Huret, Duke K. Gills, U Vic. (Canada) C. Macleod, IOS IUK J-L. Cheminee, U Vic. (Canada)	Hess Deep 2 22' N, 101 17W	Jason/Media and ALVIN investigation of the Uppermost Oceanic Crust of Hess Deep	NSF funded	May-97	May-Sep 1997	15 5	ALVIN Jason/Media	G&G
SOUTHERN EAST PACIFIC RISE:										
35	web 12/6/96	M. Kleinrock, Vandy several	Juan Fernandez Microplate, SEPR 32 S, 111W	Seafloor investigations of compression in young oceanic lithosphere: Thrust faulting at an oceanic microplate?	NSF Feb-97	Austral summer 97-98	Other Austral Summer ASAP	6 7 4 10	ALVIN Jason ARGO-II DSL-120	G&G
36	Web 11/20/96	R. Hey, UH E. Baker, PMEL, NOAA J. Lupton, PMEL	SEPR south of Easter Is 8-32 S, 112-113	Hydrothermal and structural investigations along the fastest spreading center: The 29-32 S EPR reorganizing plate boundary.	NSF FUNDED scheduled	southern summer 1997/1998	other Austral summers	12	DSL-120 sonar	G&G
37	web 11/22/96	M.D. Lilley, UW K.L. Von Damm, UNH L.E. Lupton, NOAA D. Fornari, WHOI R. Collier	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 9417121	Jan-Mar 98		25	ALVIN	Chem
38	web 11/13/96	D. Fornari, WHOI T. Gregg, WHOI M. Perfit, UFL	SEPR 18 deg 34'S	Add-on survey using ALVIN and Jason to Lilley/ Von Damm/Lupton southern EPR diving program - focus on geological/vulcanological mapping around hydrothermal vent sites and detailed sampling and analysis of lava pillars as proxies for volcanic eruption processes.	NSF RIDGE Aug-96	Jan-May 98	Nov-Dec 98 early 99	2 3	ALVIN Jason	G&G

ALVIN/ROV Letters of Interest - Summary 1997 - 1999

#	Source	Investigator	Area	Title	Sponsor	Date	Alternate	Dives	Platform/Remarks	Disc.
39	Web 12/3/96	J. Lupton, NOAA NOAA: Butterfield, Massoth, Embley, Faily, Baker J. Tetry, FIT T. Urabe, GSJ Ishibashi, U. Tokyo UW: Baross, Summit U.Wi: V. Tunnicliffe EOS/NZ: Ronde	S. EPR .5 -20 S, 112-113	Investigation of hydrothermal systems on the Superfast-Spreading EPR	NOAA NURP 10/31/96	early 1998	late 1997	20	ALVIN possible use of Jason	G&G
40	web 12/2/96	R. Lutz, Rutgers R. C. Vrijenhoek, Rutg	13 and 26 S	Gene Flow, Dispersal, and Systematics of Deep-Sea Hydrothermal Vent Organisms	NSF FUNDED 9633131	Jan-Feb 98	Feb-Mar 98	14	ALVIN	Biol
41	web 11/18/96	D. Near, USF et al.	near Easter Is 22-27 S, 113 - 110 W	Collaborative Research: Ongoing Crustal Creation, Modification, and Overprinting near Easter Island	NSF 9819236 9/5/96	Austral Summer 97/98	other Austral Summers	18 12	ALVIN DSL-120 Sonar	G&G
42	web 11/19/96	T. Urabe, GS Japan K. Fujinks, JAMSTEC T. Yabuki, JHD H. Fujimoto, ORI	SEPR 7-19 S, 113-114	Ridge Flux Project of Science and Technology Agency (STA) of Japan to recover/display long-term monitoring instruments which are deployed during Shinkai 6500/Yokosuka cruise in July-August, 1997	STA Japan FUNDED	Jan-Feb 1998	none	5	ALVIN	G&G
43	web 12/9/96	J. Sinton, U of Hawaii K. Rubin R. Batiza	18 40'S 113 24' W 17 25'S 113 13"W SEPR	Volcanological investigation of a superfast spreading Mid-Ocean ridge	NSF- MGG funded 9633398	late 97	Early 1998	20 3	ALVIN DSL 120	G&G
44	831. 8/15/96 confirmed 12/10/96	C. L. Van Dover, UAF K. Rubin, UH J. Sinton, UH	17-18 S, 113 W SEPR	Chronoseeres Study of Hydrothermal Vents on the SEPR	NSF OCE 8/15/96	early 98		3 7	ALVIN Jason Add on to Sinton	Biol

HAWAII

45	web 11/18/96	D.K. Smith, U of Hawa L.Kong, U of Hawaii E. Parfitt, U of Leeds T. Gregg, WHOI K. Johnson, Bishop M J. Reynolds, Hawaii	Puna Ridge 19 50' N 154 10"W 19 30'N, 154 46"W	Understanding Volcanic Processes at the Submarine Puna Ridge	NSF 8/15/96 9618226	Sep-Mar 97/98		18 7	DSL-120 AGRO-II	G&G
46	web 12/9/96	M. Garcia, U of Hawaii M. Rhodes, U of Mass M. Kurz, WHOI	SW flank of HI 19N, 156 W	Submarine geology of Moana Loa revealed by landslides: Implications for the geological evolution of Hawaiian volcanoes.	NSF Feb-96 9633404	summer 1998	anytime	10	ALVIN	G&G

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47	831 2/10/95	A. Chave, WHOI R. Butler, IRIS Duennebelr, U Hawaii D. Yeager, WHOI J Catiporlo	awaii 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
WESTERN PACIFIC										
48	web 12/4/98	M/R. Perfit, U. Fla K. Farley, Cal Tech B. Minnes, CSIRO G. Maxroth V. Tunnicliffe, U. Vic. I. Jonsson	Solomon Is.. Papua New Guinea New Ireland Tabar-Feni Islands 9deg 30'S 160E 4 S 152 E	Submersible Investigation of Hydrothermally Active Submarine Volcanoes in the New Ireland and Solomon Island Fore-arc, S.W. Pacific	NSF Feb-97	Sum-fall 1998	Sum-fall 1999	15 5	ALVIN Jason	G&G
49	web 11/18/96	TBA- American PI R. Binns, CSIRO S. Scott, U. Toronto Geol Survey-New Guin	Eastern Manus Basin, Bismarck Sea, Papua New Guinea	Chemistry of subsurface phase separation affecting vent fluids at the dacite-hosted PACMANUS hydrothermal field, eastern Manus Basin, Western Pacific		Nov-Dec 1998	anytime 1998	6	ALVIN -with Jason between dives	Chem
50	Web Nov-96	P. Goff, WHOI R. Stern, UT C. Van Dover, UAF D. Stuben, U. Karlsruhe K. Fujioka, JAMSTEC T. Ishii, ORI, U. Tokyo Ishibashi, U. Tokyo	Northern Marianas Trough 21 deg 30' N, 44 E to 23 deg 15' N 143 E	ALVIN investigations of propagating Backarc Rifting in the Northern Mariana Trough	NSF 9618189 Aug-96	1998		25	ALVIN avoid typhoon season Aug-Oct	G&G
51		P. Fryer,	Mariana Arc	Survey of Mariana Arc	NSF FUNDED	1997	1998	27 Days		G&G
INDIAN OCEAN										
52	WEB 12/6/96	D. Fornari, WHOI S. Humphris, WHOI K. Von Damm, UNH C. Van Dover, UAF M. Lilley, UW R. Collier, OSU A.L. Reysenbach, Rutgers C. Cavanaugh, Harvard	Central Indian Ridge near 24 S and 69 E	Mapping and sampling of hydrothermal vents on the central Indian Ridge near 24S.	NSF Feb-97	Dec-99 to Mar 2000	avoid monsoon season	15 5 5 5	ALVIN Jason ARGO II DSL-120	multi

ALVIN AND ROV REQUEST SUMMARY: 1997 AND BEYOND

