

UNIVERSITY - NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM

ALVIN REVIEW COMMITTEE

Summary Report of the
April 22-23, 1982 Meeting

Carriage House
Woods Hole Oceanographic Institution
Woods Hole, MA 02543

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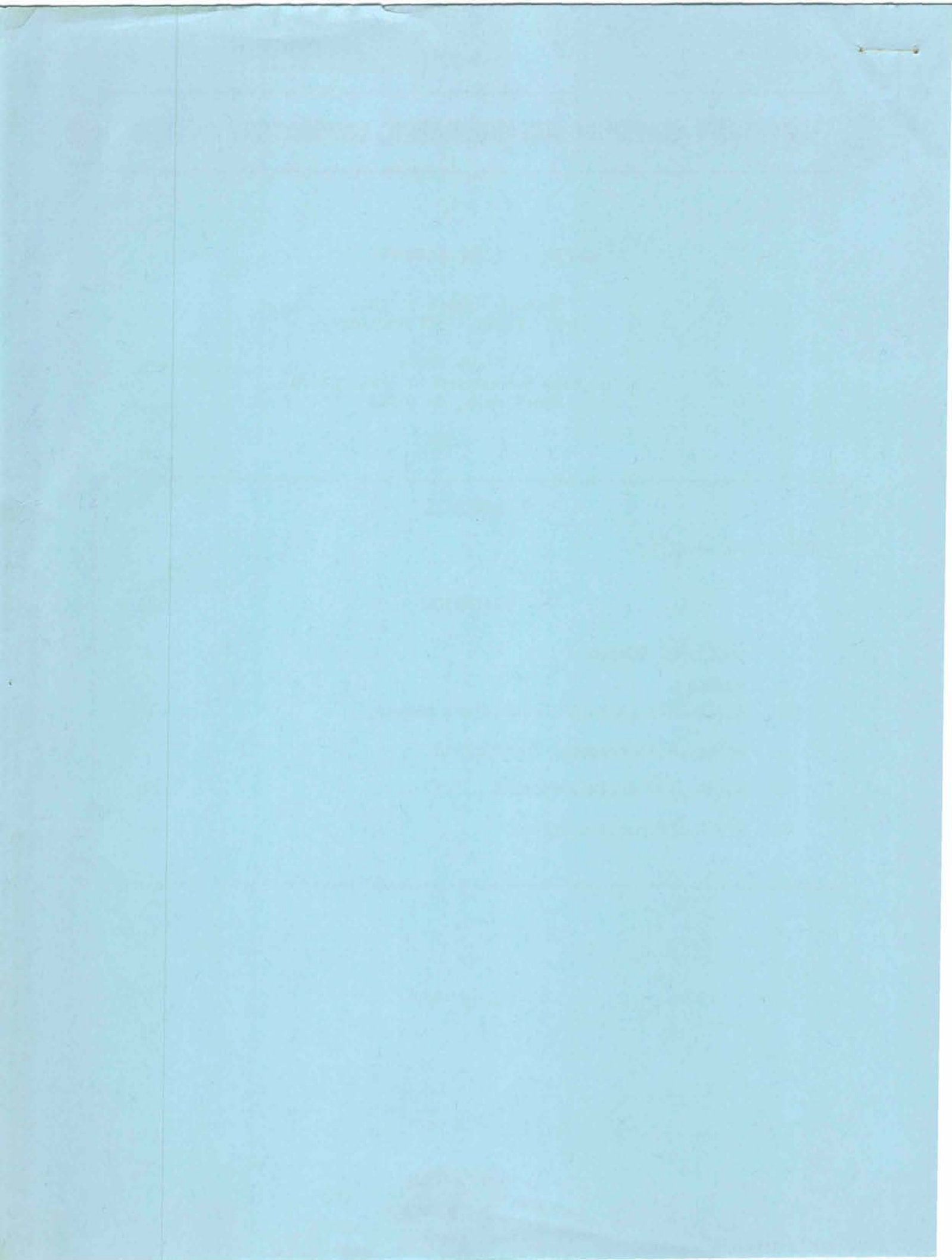
Minutes of Meeting

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July 1982





ALVIN REVIEW COMMITTEE

Minutes of Meeting
April 22, 23, 1982
Carriage House
Woods Hole Oceanographic Institution
Woods Hole, MA 02543

The meeting was called to order by Chairman, Robert W. Corell at 0830, April 22, 1982. Committee members, observer representatives, the funding agencies, NSF, ONR and NOAA, and representatives of the operator, W.H.O.I. were introduced. Present were:

ALVIN REVIEW COMMITTEE

R.W. Corell, Chairman
R.C. Aller
R.N. Anderson
D.E. Karig
G.D. Grice, *ex-officio*
G.T. Rowe
F.L. Sayles
M. Wimbush
A.A. Yayanos

UNOLS OFFICE

W.D. Barbee
T. Stetson, Prev. Ex. Sec.

AGENCY REPRESENTATIVES

P.B. Brewer, NSF
B.T. Malfait, NSF
J.G. McMillan, NSF
P. Penhale, NSF
M. Reeve, NSF
K. Kaulum, ONR
W. Busch, NOAA

W.H.O.I.

R.P. Dinsmore
J.D. Donnelly
W.M. Marquet

Report From Federal Sponsors

Brief reports were given on the 1983 funding outlook for ALVIN by representatives of the Federal funding agencies, John McMillan, NSF, Keith Kaulum, ONR and William Busch, NOAA. In summary they projected a tight budget outlook, potentially for level funding. Agency interest in using ALVIN remains high.

Report on 1981 ALVIN Operations

Jack Donnelly, Deep Submergence Group, W.H.O.I. reported on last year's ALVIN operations. He reported highly successful operations. ALVIN/LULU were in St. Croix at the beginning of 1981. They operated in the vicinity of the Virgin Islands for about one month and then returned to W.H.O.I. for maintenance and overhaul. Upon completion, ALVIN/LULU transited by way of the Panama Canal to the Pacific to undertake operations there. ALVIN/LULU will continue on operations in the Pacific at the end of April, 1982. Operations summaries were presented (Appendix III) showing 124 use days in 1981 and projecting 200 use days in 1982. The 1982 operations will include the most use days and ALVIN dives ever.

The presentation included brief discussions concerning the operational impact of scheduled escort ship breakdowns (MELVILLE) and of the continuing problems of a means of replacement for LULU.

Minutes of Alvin Review Committee Meeting

The minutes of the April, 1981 ALVIN Review Committee meeting had been distributed in draft prior to this meeting. They were accepted by the Committee.

The minutes of the February 13, 1982 ALVIN Review Committee meeting had also been distributed and were accepted.

LULU Replacement

The subject of LULU replacement was introduced by noting the joint UNOLS Advisory Council-ALVIN Review Committee resolution passed April 23, 1982:

Resolution Recognizing the need for an immediate replacement for R/V LULU as the support vessel for ALVIN, as set forth in the Submersible Science Study of February, 1982, it is the recommendation of the UNOLS Advisory Council and the ALVIN Review Committee that:

- 1. Woods Hole Oceanographic Institution prepare a full documented proposal for the conversion of ATLANTIS II for ALVIN support.*
- 2. As a second phase, that a proposal be prepared for conversion of KNORR and/or MELVILLE.*
- 3. The ATLANTIS II conversion proposal should be completed by April 15, 1982, anticipating ATLANTIS II/ALVIN operations would commence in 1983.*
- 4. Simultaneous review of the ATLANTIS II conversion should be accomplished by Federal Funding agencies within the ALVIN inter-agency Agreement, with the goal of committing the necessary funds to achieve the above schedule.*
- 5. The ALVIN Review Committee will continue to review the submersible science program and make further recommendations for both near and far term utilization.*

In response to those recommendations, Robertson Dinsmore, presented the pre-proposal studies that W.H.O.I. has conducted toward providing an adequate support vessel for ALVIN. On the basis of studies to date Captain Dinsmore advanced one possible scenario for ALVIN operations in 1983 and beyond. This scenario is based on conversion of ALVIN and ATLANTIS II to allow for single-point at-sea deployment and recovery. Conversion would be done during the first half of 1983. LULU would be retired on conclusion of the present (1982) operating season. ALVIN/ATLANTIS II would be available for limited scientific diving beginning about July, 1983 and extended operations in about September.

Although this scenario is highly tentative--a proposal has not yet been submitted, reviewed or accepted--the ARC decided to accept it as their working premise for setting a 1983 ALVIN operating schedule. Information from Captain Dinsmore's presentation is in Appendix IV.

Review of ALVIN Proposals for 1983 Schedule

The Chairman outlined a strategy for the review, which was accepted by the Committee:

1. Recognize the constraints to 1983 operations that would be imposed by ALVIN/ATLANTIS II conversion.
2. Review the 33 proposals received in response to the ALVIN flyer.
3. Consider also the 22 letters of interest in response to the ALVIN Western Pacific schedule.
4. Devise a provisional schedule for July-December, 1983, starting at Woods Hole and going to the Pacific.
5. Defer final schedule for 1983 until additional ARC consideration in December, 1982 (when many uncertainties should be resolved).

The 33 proposals on hand were then considered. These proposals, except for four from NOAA, had been circulated to the ARC. A tabulation of the 33 proposals appears as Appendix V. The mechanics of the review were similar to those of previous years: discussion, vote by Committee members in unison and tabulation of vote. By vote of the Committee, the *ex-officio* Member did not vote on proposals from his Institution. All proposals were reviewed, deferred or tabled. A provisional schedule was devised but will not be published pending a December, 1982 meeting. Appropriate letters were directed to the principal investigator of each proposal.

Recommended 1982 Schedule

In keeping with the review strategy adopted by the Committee, a provisional schedule was developed for the approximate period July-December, 1983. Because of the high degree of uncertainty and potential for change the ARC decided not to publish the schedule until after further review in December, 1982. However, individual principal investigators and the Deep Submergence Group, W.H.O.I. are advised of the Committee's scheduling recommendations.

Information on Future ALVIN Operations

In a discussion of projected ALVIN use the ARC reached a recommendation that a program should be developed for program use in the Pacific for the period late 1983 to early 1985. The Committee decided on an invitation and review process to develop that program and directed that information on these ARC recommendations and on ALVIN status be distributed to the community. A summary schedule for the recommended program follows:

The tentative schedule for 1983 ALVIN/ATLANTIS II operations include scientific program dives that can be accommodated during at-sea testing of new systems out of the Woods Hole and later, convenient to a transit to Panama Canal, all during July and August, 1983. Operations during September-December would be in the eastern Pacific, south of San Diego. The proposals accommodated in this tentative schedule are from among those received by ARC in response to the ALVIN flyer on research opportunities in 1983. (Individual responses are in preparation for all proposals received and considered.) The Committee next considered 1984 ALVIN/ATLANTIS II operations and recommended that they be scheduled in

the eastern Pacific.

The ARC decided that because of the possible curtailed ALVIN season in 1983, the tentative status of ALVIN and ATLANTIS II modifications and uncertainties concerning the ALVIN/ATLANTIS II mode of operations that they could not publish even their provisional scheduling recommendations at this time. The Committee has set a meeting for December, 1982 (in conjunction with the winter AGU meeting) to finalize the 1983 operating schedule and to begin to formulate the ALVIN schedule for 1984. In addition, the Committee will hold a workshop to help general information on which to develop the scientific diving program for 1984 and 1985. At the December ARC meeting new proposals for ALVIN operations, especially during 1984 in the eastern Pacific, will be welcome. The Committee's work will also be aided by the submission of supplemental information for the proposals that were submitted before the March 1, 1982 ARC deadline. Information bearing on specific questions indicated in Committee responses to individual proposals will be especially helpful. Finally, the committee will be aided by the submission of letters of intent indicating interest in ALVIN dives in the Pacific during early 1985.

A regular ALVIN Review Committee Scheduling Meeting will be held about April 1983. The 1984 ALVIN operating schedule will be finalized at that time. The ARC will consider proposals received after the December 1982 meeting in setting the 1984 schedule. However, potential ALVIN users should note that to receive consideration during the entire 1984 scheduling process, their proposals should reach UNOLS Office by November 1, 1982.

A letter from the Chairman, ARC (Appendix VI) is the first step in the recommended information dissemination.

It was also recommended that the ALVIN Flyer be modified to reflect the Committee's projected program and to address the deficiencies noted in many proposals and then be re-issued during summer, 1982.

Use of Navy Submersibles

During the review of proposals, the Committee discussed the desirability of promoting the use of Navy submersibles including SEA CLIFF, TURTLE and NR1. Their use was deemed especially desirable for projects near the Navy's operating bases (e.g. for projects near San Diego). The Committee formed a subgroup of Jack Donnelly, Deep Submergence Group, Robert Corell, Gilbert Rowe and Mark Wimbush, ARC who, together with Keith Kaulum, ONR will pursue the matter with the Navy.

ALVIN Review Committee Terms

The terms of Robert Corell, Roger N. Anderson and Mark Wimbush expires this June. Dr. Anderson chooses not to be considered for re-appointment. The Committee considered and recommended a slate of candidates to begin ARC terms in July, 1982. The slate, if willing to serve, will be presented for approval at the UNOLS Semiannual Meeting in May, 1982.

Other

The Committee, by acclamation, gave a vote of thanks to Mr. Thomas Stetson, just-retired UNOLS Executive Secretary for his aid and support to ARC.

The Committee, by acclamation, expressed its appreciation to Mr. J.D. Donnelly, ALVIN Operations Manager for his and the Deep Submergence Group's contribution to the ARC and to the excellence of ALVIN operations.

UNOLS Review Committee
for DSRV ALVIN

1975
(First Meeting 2/19/75)

	Term Expires
A.R. Richards, Ch., Lehigh	7/78
C.L. Drake, Dartmouth	7/76
G. Grice, WHOI	7/78
R.R. Hessler, SIO	7/77
G. Keller, NOAA/AOML	7/77
S. Murphy, U/Wash	7/76
C. Rooth, RSMAS	7/76
K.K. Turekian, Yale	7/78
Tj. van Andel, Stanford	7/77
A.E. Maxwell, WHOI, <i>ex-officio</i>	

	Term
R.W. Corell, Ch., UNH	7/76-6/82
R.N. Anderson, L-DGO	7/79-6/82
J.B. Corliss, OSU	7/77-6/80
J.M. Edmond, MIT	7/78-6/81
K.C. Macdonald, SIO	7/78-6/81
D.C. Rhoads, Yale	7/78-6/81
R.D. Turner, Harvard	7/77-6/80
M. Wimbush, URI	7/79-6/82
A.E. Maxwell, WHOI, <i>ex-officio</i>	

1976

A.F. Richards, Ch., Lehigh	7/78
R. Corell, UNH	7/79
M. Gregg, U/Wash	7/79
G. Grice, WHOI	7/78
D. Hayes, L-DGO	7/79
R.R. Hessler, SIO	7/77
G. Keller, OSU	7/77
K.K. Turekian, Yale	7/78
Tj. van Andel, Stanford (resigned 9/76)	
A.E. Maxwell, WHOI, <i>ex-officio</i>	

1980

R.W. Corell, Ch., UNH	7/76-6/82
R.N. Anderson, L-DGO	7/79-6/82
J.M. Edmond, MIT	7/78-6/81
D.E. Karig, Cornell	7/80-6/83
K.C. Macdonald, UCSB	7/78-6/81
D.C. Rhoads, Yale	7/78-6/81
G.T. Rowe, Brookhaven	7/80-6/83
M. Wimbush, URI	7/79-6/82
A.E. Maxwell, WHOI, <i>ex-officio</i>	

1977

	Term
R.W. Corell, Ch., UNH	7/76-6/79
J.B. Corliss, OSU	7/77-6/80
M.C. Gregg, U/Wash	7/76-6/79
G.D. Grice, WHOI	2/75-6/78
D.E. Hayes, L-DGO	7/76-6/79
A.F. Richards, Lehigh	2/75-6/78
K.K. Turekian, Yale	2/75-6/78
R.D. Turner, Harvard	7/77-6/80
A.E. Maxwell, WHOI, <i>ex-officio</i>	

1981

R.W. Corell, Ch, UNH	7/76-6/82
R.C. Aller, U.Chicago	7/81-6/84
R.N. Anderson, L-DGO	7/79-6/82
D.E. Karig, Cornell	7/80-6/83
G.T. Rowe, Brookhaven	7/80-6/83
F.L. Sayles, WHOI	7/81-6/84
M. Wimbush, URI	7/79-6/82
A.A. Yayanos, Scripps	7/81-6/84
G.D. Grice, <i>ex-officio</i>	

1978

R.W. Corell, Ch., UNH	7/76-6/79
J.B. Corliss, OSU	7/77-6/80
J.M. Edmond, MIT	7/78-6/81
M.C. Gregg, U/Wash	7/76-6/79
D.E. Hayes, L-DGO	7/76-6/79
K.C. Macdonald, Scripps	7/78-6/81
D.C. Rhoads, Yale	7/78-6/81
R.D. Turner, Harvard	7/77-6/80
A.E. Maxwell, WHOI, <i>ex-officio</i>	

UNIVERSITY - NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM

An association of Institutions
for the coordination and support
of university oceanographic facilities

ALVIN REVIEW COMMITTEE MEETING

0830, 22-23 April 1982, W.H.O.I. Carriage House

DRAFT AGENDA

Welcome & Introduction

Report on Last Year's Season

A brief report given by J. Donnelly

Acceptance of the April 1981 Meeting Report

Comments should have been forwarded to UNOLS Office in advance of the meeting

Review of Proposals for 1983 & Beyond

Committee discussion & review

Recommended ALVIN/LULU Scheduling for 1983

A tentative schedule will be developed

Comments on ALVIN Program by Funding Agencies

An opportunity for representatives to comment

The Committee Will Review Text of ALVIN Flyer for 1984

This will inform potential ALVIN users of its likely whereabouts

Three ARC Members' Terms Expire in June

The Nominating Committee welcomes suggestions of names, present incumbents are eligible for reelection

Other:

A chance to bring up additional business or questions

3/18/82

ALVIN/LULU
1981 Operations Summary

<u>From</u>	<u>To</u>	<u>Investigator</u>	<u>Use Days</u>	<u>RECOMMENDED APPORTIONMENT</u>			
				<u>NSF</u>	<u>ONR</u>	<u>NOAA</u>	<u>OTHER*</u>
1/8	1/9	Keach/Training	2			2 IMI	
1/10	1/13	Sobel/Recovery	4			4 NADC	
1/15	1/21	Ballard/Imaging	7		7		
1/22	1/22	Weiss/Orientation	1	1			
1/28	1/28	Williams/Recovery	1			1 FWTF	
1/30	2/1	Hubbard/Biology	3			3	
6/30	7/4	Donnelly/Certification	0				
		Buttman/Recovery	1			1 USGS	
7/7	7/21	Hecker/Biology	15			15 BLM	
8/13	9/2	Malahoff/Geology	21			21	
9/5	9/13	Grassle/Biology	9	9			
9/21	10/5	K. Smith/Biology	15	15			
10/10	10/27	Murray/Manop	18	12	6		
11/9	11/25	Edmond/Geo Chem	17	15	2		
12/4	12/13	Alldredge/Biology	<u>10</u>	<u>10</u>	<u>—</u>	<u>—</u>	
		TOTAL	124	62	15	24	23

*International Maritime Inc - Training Japanese Pilots
 Naval Air Development Center
 Fleet Weapons Training Facility, St. Croix
 U.S. Geological Survey
 Bureau of Land Management

ALVIN/LULU
1982 Projection Based On
Schedule Issued 1/26/82

<u>From</u>	<u>To</u>	<u>Investigator</u>	<u>Use Days</u>	<u>PROJECTED APPORTIONMENT</u>			
				<u>NSF</u>	<u>ONR</u>	<u>NOAA</u>	<u>OTHER*</u>
1/5	1/23	Lonsdale	19	19			
1/28	2/14	Lonsdale	18		18		
2/19	3/2	Childress	12	9	3		
3/6	3/15	K. Smith	10		10		
4/3	4/6	Hessler	4		4		
4/11	4/28	K. Smith	18	18			
5/2	5/15	K. Smith	14	14			
5/30	6/12	Grassle	14	14			
7/5	7/31	Rona	27	17		10	
8/5	8/18	Sayles	14	10			3, 1
8/23	9/1	Cooper	10			10	
9/6	9/19	Hecker	14				14
9/23	10/5	Stubblefield	13			13	
10/26	10/28	Hecker	3	3			
10/31	11/9	Neumann	<u>10</u>	<u>10</u>			
TOTAL			200	114	35	33	18

R.P. Dinsmore
April 1, 1982

LULU REPLACEMENT SCHEDULE

Second Draft

Proposal to NSF - Replacement of ALVIN Support Vessel

Two-year Proposal: Start Date- 1 July 1982

Budget:

1. Design & Engineering: R/V's ATLANTIS II, KNORR and GYRE	\$ 95,000
2. Procurement: Submersible Handling System	975,000
3. Procurement: ATLANTIS II Bow Thruster	190,000
4. ATLANTIS II Conversion:	
Deckhouse modifications	120,000
Bow Thruster Installation	50,000
After Deck arrangements	30,000
Install handling system	110,000
Services & Misc.	60,000
Testing & Certification (at sea)	120,000
<hr/>	
TOTAL	\$ 1,750,000

Schedule:

1 May 1982	- Submit Proposal
1 June 1982	- Long lead orders (handling system and bow thruster)
1 July 1982	- Proposal Start Date
Jul - Dec 1982	- ATLANTIS II Dockside Modifications
Jan - Mar 1983	- Shipyard installation of bow thruster and transducers
Mar - Apr 1983	- Installation of sub handling system
May 1983	- Test system using dummy loads
Jun - Aug 1983	- ALVIN on board. Tests, training, certifi- cation, local operations.
1 Sep 1983	- Departure for extended voyage operations

April 20, 1982

ALVIN/ATLANTIS II Schedule

December 1, 1982	ALVIN completes 1982 schedule and enters overhaul and conversion to single point lift. LULU available for disposal.
March-April, 1983	ATLANTIS II to shipyard for drydocking and installation of bow thruster. Sub handling system delivered and installed on ATLANTIS II.
May, 1983	Tests of sub handling system on ATLANTIS II using dummy load. Dockside and at-sea tests.
June, 1983	ALVIN on ATLANTIS II. Tests and certification. Crew training. Outfitting.
July, 1983	At-sea testing. Limited science dives.
August, 1983	East Coast science dive period; returning to Woods Hole.
September, 1983	ATLANTIS II/ALVIN depart on extended voyage operations.

APPENDIX V

INVESTIGATOR	ASSOCIATES	AREA	PURPOSE	SPONSOR	DATE	ALTERNATE	ESCORT*	DIVES	COMMITTEE ACTION
1. WISNER, K. URI	Gowing, M. Silver, M.	Off Woods Hole, DOS 1	Zooplankton trophodynamics	NSF-1	Summer 83	Spring or Fall	None	6	Tentative Sched.
2. WILLIAMS, S.L. Knolls Atomic	Boylan, C. Sheldon, R. Jannasch, H. et al	Off Woods Hole, DOS 2 & Site 1032	Experiment retrieval	DOE-1	Open 83		None	4	Tentative Sched.
3. WILLIAMS, S.L. Knolls Atomic	Grassle, F. et al	St. Croix DOS 4	Experiment retrieval	DOE-1	Open 83		None	2	May be inserted '82
4. FLOOD, R.D. L-DGO	Biscaye, P.	Off S. C.	Abyssal sediment furrows	NSF-2	JN 83	Summer 83	C. HENLOPEN	7	Tentative Sched.
5. CURRAY, J.R. UCSD	Paul, C.K. Neumann, A.C.	W. Fla. Escarpment	Geology of scarp	NSF-2	Spring 83	Fall 82	None	10	
6. GEORGE, R.Y. UNC	Brauer, R. Staiger, J.	Mona Canyon or TOTO	Biology of entrophic deepsea environment	NSF-1	Summer 83	Dec 83		6	
7. BALLARD, R.D. W.H.O.I.	Marquet, W. Hightower, J.	Andros I. or St. Croix	ARGO-JASON equipment tests	ONR-2	Winter 83	Fall 83	None	7	May be inserted '82
8. GRASSLE, J.F. W.H.O.I. TURNER, R. MCZ	Williams, S. Petrecca, R. Ogden, J.	Off St. Croix, USVI	Deepsea ecosystems	NSF-3 ONR-3	83, not Dec.		None	5	May be inserted '82
9. HUBBARD, D.K. W. I. Lab	Williams, S. Stanley, D. Suchanek, T. Ogden, J.	St. Croix, USVI	Fate transported sediment, etc.	NSF-1	Open, 83			6	

Sponsor Code:

1. Proposal to be submitted
2. Proposal submitted
3. Funded

* Escort preferred by P.I.

INVESTIGATOR	ASSOCIATES	AREA	PURPOSE	SPONSOR	DATE	ALTERNATE	ESCORT*	DIVES	COMMITTEE ACTION
10. GRASSLE, J.F. W.H.O.I. WHITLACH	Murray, J. Aller, R.	Panama Basin	Animal-sediment relationships	NSF-3	83, not Dec			12	Tentative Sched.
11. HONJO, S. W.H.O.I.	Cole, J. Bacon, M. Thunell, R. et al	Panama Basin	Benthic transition layer	NSF-3	Summer, Fall 83	Not Nov., Dec.		6	Tentative Sched.
12. EDMOND, J.M. MIT	Lupton, J. Simonet, B. Gieskes, J.	Guaymas Basin	Hot spring chemistry	NSF-1	83 or 84 not Dec-Mar.		N. HORIZON or E.B. SCRIPPS	12	
13. GRASSLE, J.F. 13a. JANNASCH, H.	Gagosian, R. Lonsdale, P.	Guaymas Basin	Biology, Geochemistry Geology of vents	NSF-1	AP-AU 83/84 Not DE-JA			12 total	
14. BALLARD, R.D. 14a. MOTTI, M.J. W.H.O.I.	Francheteau, J. Thompson, G. Holland, H.	EPR 10-150N	Axial processes	NSF-1	Winter 83	Fall 83	None	12 6	Tentative Sched.
15. CHILDRESS, J.J. UCSB	Somers, G. Smith, K. Felbeck, H.	210N or Guaymas Basin	Vent animals	NSF-1	Late 83	Early 84	N. HORIZON	20	
CORLISS, J.B. OSU	Gordon, L. Baross, J. Simonet, B. et al	EPR 210N	Life at vents	NSF-				12-16	Proposal not received
17. HESSLER, R.R. UCSD		New vents preferred	Mega fauna at vents	NSF-1	Open 83			5	Tentative Sched.
18. HESSLER, R.R. UCSD	Smith, C.	Off San Diego	Organic falls on bathyal communities	ONR-1	Spring 83	Winter, Summer 83		5	Tentative Sched.

Sponsor Code:

1. Proposal to be submitted
2. Proposal submitted
3. Funded

* Escort preferred by P.I.

INVESTIGATOR	ASSOCIATES	AREA	PURPOSE	SPONSOR	DATE	ALTERNATE	ESCORT*	DIVES	COMMITTEE ACTION
19. SMITH, K.L. UCSD	Azam, F. Carlucci, A. Hessler, R. et al	Santa Catalina Basin	BBL energetics	NSF-3	Sept 83	Oct 83	N. HORIZON	15	
20. THISTLE, D. FL State U.		Off San Diego	Community structure	NSF-1	Aug 83		None	4	
21. CRAIG, H. UCSD	Ballard, R. Hekinian, R.	EPR at 13°N	Sample vent fluids	NSF-3	Sept 83	Oct-Dec 83	T. WASHINGTON	10	Tentative Sched.
21a CRAIG, H. UCSD	Ballard, R. Macdougall, D.	Loihi Seamount off Hawaii	Sample vent fluids	NSF-3	Oct 83	Summer 83	MELVILLE	7	
22. EMBLEY, R.W. NOAA/NOS	Kulm, L. Carlson, B. Malahoff, A. et al	OR-WA coasts	Subduction processes	NSF-1	JL-SE 84-85	JL-SE 83-84		12 OR 8 WA 20	
23. JOHNSON, H.P. DELANEY, J.R. U. of WA	Bryan, W. Claque, D. Dymond, J. et al	OR-WA coasts Juan de Fuca R.	Petrology, Tectonics, etc.	NSF-1	Summer 84-85		T. WASHINGTON	20 ea. yr.	
24. LONSDALE, P.F. UCSD	Batiza, R. et al	Fieberling- Guadalupe	Nature of hot spot chain	ONR-1	Late 83		N. HORIZON	12	
25. ANDERSON, R.N. L-DGO	Edmond, J. Craig, H. Ballard, R. Corliss, J. Hussong, D.	Mariana Trough	Sample vent fluids	NSF-1	83-84			15	

Sponsor code:

1. Proposal to be submitted
2. Proposal submitted
3. Funded

*Escort preferred by P.I.

	INVESTIGATOR	ASSOCIATES	AREA	PURPOSE	SPONSOR	DATE	ALTERNATIVE	ESCORT	DIVES	COMMITTEE ACTION
19a.	SMITH, F. L. UCSD	Childress, J. Robison, B. Reardon, K.	Santa Catalina Basin	Ecol. Energetics, DSL	ONR-1	Fall '83	Spring, '84	-	8	
21b.	MACDONALD, J.D. UCSD	Lugmair, G. Finkle, R.	EPR 13°N	Isotopic Comp. EPR Basalts	NSF-1,2	Sept '83	Oct-Dec '83	-	3	
26.	MALAHOFF, A HOS/NOAA	Embley, R. Fornari, D. Ballard, R. Hekinian, R.	Galapagos	Polymetallic Sulfides	NOAA	Jan-Feb '83	Aug., '83	-	15	Tent. Sched.
27.	GREGG, R.W. U of HA	Uchida, R.	100 mi S.W. Hawaii	Ecology of Hawaiian Seamounts	NOAA	June-Sept. '83	-	-	10	
28.	MALAHOFF, A HOS/NOAA	Embley, R. Hammond, S. Fornari, D. McMurtry, G. Moore, J.	Loihi Sub. Volcano	Rift/vent geology Loihi	NOAA	When Available	-	-	10	
29.	MALAHOFF, A HOS/NOAA	Embley, R. Hammond, S. Rona, P. McMurtry, G. Heley, R. Fornari, D.	Gorda-Juan de Fuca	Rift morphology and potential hydrothermal deposits	NOAA	July-Aug., '83, '84	-	-	25	

Sponsor Code:

1. Proposal to be submitted
2. Proposal submitted
3. Funded

*Escort preferred by P.I.

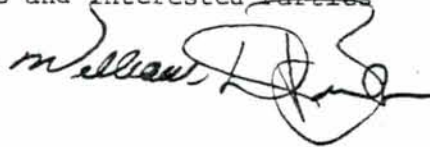
UNIVERSITY-NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM

An association of Institutions
for the coordination and support
of university oceanographic facilities

June 2, 1982

TO: ALVIN Users, ALVIN Sponsors and Interested Parties

FROM: *for* Robert W. Corell, Chairman
ALVIN Review Committee



SUBJECT: ALVIN Information

The ALVIN Review Committee (ARC) met in Woods Hole, Massachusetts on April 22, 23, 1982 to consider ALVIN operations and schedules for 1983 and beyond. Proposed changes in the mode of ALVIN operations, particularly concerning support vessels and the method of at-sea deployment, will probably result in an abbreviated schedule for 1983 operations and will be a factor in scheduling and operations for subsequent years. The ARC finds it essential that information on these changes and on the Committee's efforts to accommodate new factors in ALVIN scheduling promptly be made available to the community. Information is provided on the results of the April ARC meeting, on near-term committee plans to refine ALVIN schedules for 1983-1985 and on the probably mode of future ALVIN operations.

April ARC Meeting

Representatives from the federal funding agencies, NSF, ONR and NOAA gave reports that tentatively indicated 1983 funds for ALVIN would be roughly comparable to those available in 1982.

A review of 1981 and 1982 ALVIN operations to date was provided by WHOI ALVIN operations personnel. At the conclusion of 1982 operations, ALVIN/LULU will return to Woods Hole for periodic maintenance.

Robertson Dinsmore made a presentation on WHOI studies to support a proposal in preparation for ALVIN support. These studies and the proposal are for the modification and use of ATLANTIS II as ALVIN support vessel and for the modification of ALVIN to accommodate a single-point lifting mode of deployment and recovery. If funds are available and the proposal is accepted, work would be accomplished and testing completed during the period of March - August, 1983. Some scientific dives could be completed during at-sea testing, and ALVIN/ATLANTIS II could be available for extended operations beginning in September, 1983. This scenerio envisions that a significant but not as yet specified portion of the ATLANTIS II operations would be devoted to ALVIN support in 1983 and beyond.

ALVIN Operations
 June 2, 1982
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The ARC recognized that such a scenerio is tentative and contingent on funding-agency acceptance both of proposals and this new operational concept. The Committee also recognizes that both ALVIN and other UNOLS fleet users may have interests that must be considered. Nevertheless, the ARC accepted the scenerio as the probable outlook for ALVIN operations and used it as the basis for developing a tentative 1983 ALVIN operating schedule.

The tentative schedule for 1983 ALVIN/ATLANTIS II operations includes scientific program dives that can be accommodated during at-sea testing of new systems out of the Woods Hole and later, convenient to a transit to Panama Canal, all during July and August, 1983. Operations during September - December would be in the eastern Pacific, south of San Diego. The proposals accommodated in this tentative schedule are from among those received by ARC in response to the ALVIN flyer on research opportunities in 1983. (Individual responses are in prepration for all proposals received and considered.) The Committee next considered 1984 ALVIN/ATLANTIS II operations and recommended that they be scheduled in the eastern Pacific.

ARC Plans to Develop and Finalize Schedules

The ARC decided that because of the possible curtailed ALVIN season in 1983, the tentative status of ALVIN and ATLANTIS II modifications and uncertainties concerning the ALVIN/ATLANTIS II mode of operation that they could not publish even their provisional scheduling recommendations at this time. The Committee has set a meeting for December, 1982 (in conjunction with the winter AGU meeting) to finalize the 1983 operating schedule and to begin to formulate the ALVIN schedule for 1984. In addition, the Committee will hold a workshop to help generate information on which to develop the scientific diving program for 1984 and 1985. At the December ARC meeting new proposals for ALVIN operations, especially during 1984 in the eastern Pacific, will be welcome. The Committee's work will also be aided by the submission of supplemental information for the proposals that were submitted before March 1, 1982 ARC deadline. Information bearing on specific questions indicated in Committee responses to individual proposals will be especially helpful. Finally, the Committee will be aided by the submission of letters of intent indicating interest in ALVIN dives in the Pacific during early 1985.

A regular ALVIN Review Committee Scheduling Meeting will be held about April, 1983. The 1984 ALVIN operating schedule will be finalized at that time. The ARC will consider proposals received after the December, 1982 meeting in setting he 1984 schedule. However, potential ALVIN users should note that to receive consideration during the entire 1984 scheduling process, their proposals should reach UNOLS Office by November 1, 1982.

A revised ALVIN flyer will be distributed during summer, 1982. This revision will define the scheduling process above and will more sharply define the content and format desired of proposals for ALVIN use.

cc: ALVIN Review Committee
 UNOLS Advisory Council
 UNOLS Delegates
 Submersible Science Study Members

Attachment - 1


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Summary of Tentative Deadlines and Estimated Schedule

- April 1982
- ALVIN Review Committee considered 1983 proposals for ALVIN dive program. Tentative schedule developed for 1983.
- Summer/Fall 1982
- Formal proposal review for recommended conversion of ATLANTIS II as ALVIN support vessel.
- November 1, 1982
- Deadline for revised 1983 proposals and deadline for letters of intent for fall 1985 and beyond.
- December 1982
- ARC to make final 1983 program and to tentatively outline 1984-85 program.
 - ARC to hold workshop at AGU/ALOS meeting to develop initial projections for fall 1985 and beyond. Letters of intent are strongly encouraged to be submitted to UNOLS by November 1, 1982.
- March 1983
- Deadline for ALVIN 1984 and early 1985 proposals, directed primarily at the Pacific basin, both eastern and western.
- April 1983
- ARC meets to complete cruise plans through summer 1985.
- Summer 1983
- ALVIN/AII conversions completed and certification cruises.
- September 1983
- 1983 ALVIN program begins, most likely transit to Panama to begin in western Pacific near Panama.
- September 1983
- Summer 1984 - ALVIN program most likely to be located in eastern Pacific. Proposals for January 1984 through spring 1985 are due March 1983.
- Summer 1984
- Summer 1985 - ALVIN program in Pacific basin, with locations dependent on quality of proposed science. ALVIN returns to WHOI for overhaul by early summer 1985.