

1975

# UNIVERSITY - NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM

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

UNOLS Office  
Woods Hole Oceanographic Institution  
Woods Hole, Massachusetts 02543

## SUMMARY REPORT OF ANNUAL MEETING

26-27 May 1976 - Washington, D.C.

### 1. General

Chairman of the meeting was John A. Knauss, Provost for Marine Affairs, University of Rhode Island. A total of 109 attendees representing 27 academic institutions and 8 Federal agencies were present. A list of registered participants is attached.

### 2. Report by Executive Secretary

The Executive Secretary reported on the activities of the UNOLS Office over the past year and on ship operations and support statistics. Copies of statistical material are attached.

### 3. Ship Support

Funding for UNOLS Ship Operations is about \$19.8M in 1975, \$20.4M in 1977. This compares with actual ship costs of \$19.1M, \$21.3M and \$23.0M. The anticipated 1976 deficit will have to be met by operating reductions. Outlook for 1977 shows a smaller projected deficit than any similar point in past four years. Shipboard technician and equipment funding continue to be critical items.

### 4. Long-Range Ships Plan

Summary of the UNOLS Long Range Ships Plan was discussed. The goals by general classes were agreed upon in principle as follows except #9, #10 and #11 where more information and justification is required prior to acceptance by UNOLS:

CLASS OF VESSEL	UNOLS LONG-RANGE REQUIREMENT	PRESENT INVENTORY
1. Global General Purpose, over 250-ft,	2	0
2. Ocean-wide General Purpose, over 200-ft	5	6
3. Underway Geology & Geophysics, over 200-ft	2	1
(Total over 200-ft.)	(9)	(7)
4. Medium Size General Purpose, 150-200 ft	10	9
5. Arctic Research, 150-200 ft	1	0
(Total 150-200 ft.)	(11)	(9)
6. Coastal Regional, 125-150 ft	8	4 3/
7. Coastal Institutional, 80-125 ft	16	12 3/
8. Specialized Geo-Sampling	[1] 1/	0
<b>TOTAL SHIPS</b>	<b>64</b>	<b>32</b>
9. Manned Ocean Station	1 2/	0
10. Deep Submergence Research Vehicle	2 2/	1
11. Mobile Shallow Shelf Habitat	1 2/	0

1/ May be included in Class #4 or #7  
2/ UNOLS Approval remains pending

5. Ship Design Studies

Based upon the 1975 UNOLS recommendations and reviews by the Advisory Council over the past year, NSF is funding conceptual design studies for four coastal research vessels and a Polar (Arctic) research vessel. These studies will be an important step toward the final acquisition of the ships. If this is a successful effort similar studies will be applied toward other type ships in the Long-Range Plan.

6. Safety Standards

The Draft UNOLS Safety Standards were approved and accepted for UNOLS use. Although these standards are voluntary, all UNOLS Members agree to make every effort for compliance with applicable provisions.

7. Uniform Cost Accounting

UNOLS Members agreed to comply with the approved set of uniform definitions for ship use accounting, and to continue to work toward further uniform procedures. A proposal to consider a fixed daily rate system was not accepted.

8. Manned Undersea Vehicles and Habitats

Dr. George Crozier, Director of the University of Alabama Dauphin Island Laboratory, through a message to the Meeting expressed concern over the support management, and future of manned undersea vehicles and platforms. He requested that UNOLS take the matter up as a matter of urgency. This was referred to the Advisory Council for future action.

9. Law of the Sea

Dr. John Knauss reported on his participation in the current Law of the Sea Conference. He advised that the current text does not favor science. A 200 mile economic zone is inevitable and the question now is what rates will apply to the conduct of research. Choice is between a "consent" regime and an "obligation" regime. The latter sets up pre-arranged conditions which if complied with do not require consent but rather notification. Without a treaty a 200 mile consent regime is inevitable. UNOLS role should be to develop an image for fleet which might facilitate, expedite, or possibly obviate consent mechanism.

10. Charter Amendment

A proposed change to the UNOLS Charter having been recommended by the Advisory Council and circulated on April 25, 1976 was adopted. The change provided for a four-year term operation of the UNOLS Office by a Member, to be decided by the Membership based on a review and recommendation by the Advisory Council; and appointment of the Executive Secretary by UNOLS Members following agreement by the institution hosting the UNOLS Office.

11. Election of Officers

Dr. Warren S. Wooster (Univ. Washington) and Dr. Ferris Webster (W.H.O.I.) were elected as Chairman and Vice Chairman of UNOLS respectively. The members expressed appreciation to Drs. Knauss and Shor for their two years of service as Chairman and Vice Chairman.

12. Election of Advisory Council

The following were elected to the Advisory Council as indicated:

Dr. Dirk Frankenberg, UNC	3 year term
Dr. George Keller, OSU	1 year term
Dr. John Martin, Moss Landing	3 year term
Dr. Richard Barber, Duke Univ.	3 year term

The following members are carried over:

Dr. Richard C. Dugdale, Bigelow Lab.	exp. 6/77
Dr. M. Grant Gross, JHU	exp. 6/78
Mr. T. K. Treatwell, TAMU	exp. 6/78

(Note: Immediately following the meeting, the Advisory Council met and re-elected Dr. Dugdale as its Chairman)

13. Review Committees

On the nomination of the Advisory Council the following were appointed to Review Committees as indicated:

R/V ALPHA HELIX

Dr. John Costlow, Duke  
Dr. Holgar Jannasch, W.H.O.I.  
Dr. Burr Steinbach, Oceanic Fdn.

R/V EASTWARD

Dr. Larry Atkinson, Skidaway  
Dr. Robert Beardsley, W.H.O.I.

Remaining Members are:

Dr. Vera Alexander, Alaska	Dr. Dirk Frankenberg, UNC
Dr. Ed Chin, Georgia	Dr. D. K. Atwood, Puerto Rico
Dr. A. Benson, Scripps	Dr. R. T. Barber, Duke
Dr. J. Case, Univ. Calif.	Dr. Reuben Lasker, SW Fisheries
Dr. W. M. Sackett, TAMU	Dr. Lynton Land, Texas
	Dr. W. F. Ryan, LDGO

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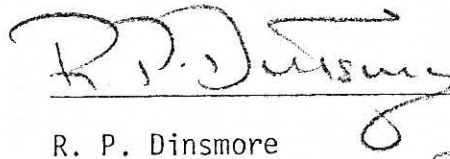
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New Appointees:

Dr. D. Hayes, LDGO - Dr. R. Corell, UNH - Dr. M. Gregg, Univ. Wash.

Remaining Members are:

Dr. A. F. Richards, Lehigh  
Dr. R. R. Hessler, Scripps  
Dr. George Keller, OSU  
Dr. Tj van Andel, Oregon  
Dr. K. K. Turekian, Yale  
Dr. G. Grice, WHOI



R. P. Dinsmore  
Executive Secretary

*Si transit*

LIST OF ATTENDEES  
6th Annual UNOLS Meeting  
26-27 May 1976

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CURRENT UNOLS FUNDING PROFILE

\$ M

	1973	1974	1975	EST. 1976	PROJ 1977
NSF SHIP OPERATIONS	11.6	12.7	13.4	13.4	15.5
ONR SHIP OPS & TECHS	3.8	3.8	3.5	3.2	3.5
"OTHER" SHIP OPS	1.5	1.5	2.9	3.8	3.5
TOTAL	16.9	18.0	19.8	20.4	22.5
<i>ACTUAL COSTS</i>	<i>16.9</i>	<i>18.0</i>	<i>19.1</i>	<i>21.3</i>	<i>23.0</i>
NSF TECHNICIAN FUND.	0.8	1.0	1.1	1.1	1.1
NSF SHIP EQPT. FUND	1.2	1.0	1.0	1.2	1.0
NSF SHIP CONSTRUCTION	0	3.5	4.0	0.3	0

UNOLS SHIP STATISTICS - 1975

	OVER 200'	150' TO 200'	100' TO 150'	UN- DER 100'	ALL SHIPS
NUMBER OF SHIPS INCLUDED	8	8	4	9	29
AVERAGE OPERATING DAYS	243	243	227	152	213
AVERAGE ACTUAL DAYS AT SEA	229	211	215	146	196
AVERAGE COST 1975 (\$K)	1,249	723	473	155	657
AVERAGE DAILY RATE (\$)	5,202	3,370	2,122	998	2,935
AVERAGE MAN DAYS AT SEA	3,380	2,844	2,172	886	2,291
OUTSIDE PARTICIPATION (U.S. INSTS)	37%	34%	49%	16%	31%
FOREIGN PARTICIPATION	7%	1%	3%	0%	3%
SHIP SUPPORT FUNDING					
NSF	68%	61%	83%	53%	66%
ONR	22%	19%	3%	9%	19%
OTHER	10%	20%	14%	38%	15%



MAY

1976

AVERAGE ANNUAL SHIP OPS. COST - \$ K

	1973	1974	1975	EST. 1976	AVE ANNUAL INCREASE
OVER 200FT	1,026	1,193	1,249	1,461	13%
150FT - 200FT	632	696	723	835	10%
100FT - 150FT	370	367	473	540	14%
50FT - 100FT	149	154	155	229	13%
TOTAL FLEET COSTS	15,442	17,960	19,058	21,908	12½%

NUMBER OF UNOLS SHIPS / AVERAGE OPERATING DAYS AT SEA

	1972	1973	1974	1975	EST. 1976
OVER 200FT	8/ 264	8/ 280	8/ 277	8/ 243	7/ 280
150FT - 200FT	7/ 253	7/ 259	8/ 252	8/ 243	9/ 261
100FT - 150FT	6/ 193	6/ 219	4/ 211	4/ 227	4/ 256
50FT - 150FT	13/ 180	11/ 187	10/ 174	9/ 152	9/ 194
TOT	34 SHIPS	32 SHIPS	30 SHIPS	29 SHIPS	29 SHIPS

AVERAGE DAILY COST RATE

	1973	1974	1975	1976
OVER 200FT	\$3,749	\$4,363	\$5,144	\$4,525
150FT - 200FT	2,453	2,807	2,969	3,049
100FT - 150FT	1,388	1,715	2,079	2,050
50FT - 100FT	974	1,046	1,024	1,289

NUMBER OF SCIENTISTS PER CRUISE —

COST PER SCIENTIST PER DAY

	1973		1974		1975	
OVER 200FT	16.9	\$223	17.3	\$252	15.7	\$370
150FT - 200FT	11.3	\$217	12.4	\$226	11.5	\$270
100FT - 150FT	10.2	\$136	11.0	\$156	7.4	\$210
50FT - 100FT	5.8	\$168	6.1	\$171	5.5	\$170

1976 'COST PROFILE - \$K

	over 200'	150' to 200'	100' to 150'	50' to 100'	Tot.	
CREW SALARIES	585	313	220	66	8,709	- 44%
MARINE STAFF	68	53	47	24	1,346	- 5%
MAINTENANCE	117	96	64	26	2,165	- 10%
FUEL	298	143	64	22	3,813	- 17%
FOOD	81	54	25	10	1,230	- 5%
INSURANCE	37	23	23	6	648	- 3%
TRAVEL	28	14	8	1	363	- 1%
OTHER	113	80	46	17	1,823	- 8%
INDIRECT	146	67	45	24	1,786	7%
TOT	1,461	835	540	196	21,908	

PROFILE OF UNOLS FLEET

BY AGE & SIZE

	UNDER 10 YRS.	10-20"	20-30	OVER 30 YRS.	TOT.
OVER 200 FT.	2	5	0	0	7
150 - 200 FT.	8	0	0	1	9
100 - 150 FT.	2	1	1	0	4
UNDER 100 FT.	4	2	2	1	9
ALL SHIPS	15	8	3	3	29