

APPENDIX XIV

NSF Report

NSF Ocean Sciences Division

	FY 1994	FY 1995	FY 1996	FY 1997
Ocean Sciences Research	100.0M	102.6M	104.9M	109.3M
Oceanographic Centers & Facilities	50.3M	50.4M	48.9M	52.3M
Ocean Drilling Program	38.7M	39.8M	39.9M	40.2M
	<u>\$189.0M</u>	<u>\$192.8M</u>	<u>\$193.7M</u>	<u>\$201.8M</u>
OCEANOGRAPHIC FACILITIES DETAIL				
Operations				
Ship Operations*	32.2M	35.1M	31.1M	31.4M
ALVIN, Aircraft, etc.	2.2M	2.1M	2.4M	2.7M
Marine Techs.	4.2M	4.4M	3.8M	4.0M
	<u>\$38.6M</u>	<u>\$41.6M</u>	<u>\$37.3M</u>	<u>\$38.1M</u>
Infrastructure				
Major Research Inst.	--	--	--	4.5M
Science Instruments	2.5M	1.9M	2.3M	2.1M
Shipboard Equipment	2.1M	1.1M	1.7M	1.5M
Ships, Upgrades	2.1M	0.2M	1.5M	1.0M
UNOLS, misc.	0.5M	0.5M	0.3M	0.5M
	<u>\$7.2M</u>	<u>\$3.7M</u>	<u>\$5.8M</u>	<u>\$9.6M</u>
Centers & Reserves				
AMS	1.2M	1.0M	1.4M	1.2M
IAI	1.3M	2.0M	1.9M	1.6M
Cross Directorate/Reserves	2.0M	2.1M	2.5M	1.8M
	<u>\$4.5M</u>	<u>\$5.1M</u>	<u>\$5.8M</u>	<u>\$4.6M</u>

*Plus \$1.5M from ODP (1994), \$1.8M (1995), \$1.4M (1996), \$2.0M (1997)

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Ocean Sciences Division Budget (in \$M)

	FY 1995	FY 1996	FY 1997*	% Change 96 to 97
	102.60	104.92	109.32	+4.2%
	50.45	48.91	52.26	+6.8%
	<u>39.76</u>	<u>39.85</u>	<u>40.25</u>	<u>+1.0%</u>
	\$192.81	\$193.68	\$201.83†	+4.2%

† Includes \$4.47M which is committed to the centrally managed Academic Research Infrastructure program. Excluding these funds the OCE total is \$197.38M for 1997, a 1.9% increase over 1996.

* unofficial estimate.



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1997 UNOLS Ship Classification (Heinrichs Model)

Large Ships

- THOMPSON
- KNORR
- MELVILLE
- EWING
- ATLANTIS
- REVELLE

Local

- PELICAN
- LONGHORN
- BLUE FIN
- SEA DIVER
- BARNES
- CALANUS
- LAURENTIAN
- URRACA

Intermediate Ships

- MOANA WAVE
- OCEANUS
- WECOMA
- ENDEAVOR
- GYRE
- NEW HORIZON
- S. JOHNSON
- E. LINK

Regional

- ALPHA HELIX
- POINT SUR
- CAPE HATTERAS
- SPROUL
- CAPE HENLOPEN
- WEATHER BIRD



UNOLS Operations Support Trends 1993-1997 (\$K)

	ACTUAL 1993	ACTUAL 1994	ACTUAL 1995	PRELIM 1996	REQUEST* 1997
NSF	30,558	33,338	36,022	30,785	32,815
ONR/NRL	6,484	3,588	6,455	4,530	4,358
NOAA	1,981	1,956	2,209	1,143	3,509
OTHER	2,982	2,479	2,280	2,798	7,634
INST/STATE	3,074	2,591	1,563	3,112	2,536
	\$45,079	\$43,960	\$48,529	\$42,366	\$50,862
	ENDEAVOR midlife	OCEANUS, WECOMA, and S. JOHNSON midlife	ISELIN retired	CAPE HATTERAS layup PT. SUR overhaul N. HORIZON midlife, ATLANTIS II retired	REVELLE and URRACA added ATLANTIS replaces ATLANTIS II

* 1997 Request In Ship Operations Proposals. Some Projects Still Pending.
Expect Some Reduction In Actual Support.

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"Other Support" -- UNOLS Operations Trends 1993-1997

	ACTUAL 1993	ACTUAL 1994	ACTUAL 1995	PRELIM 1996	REQUEST 1997
NAVOCEANO	---	---	---	---	4,655
INTERNATIONAL	815	191	687	494	1,849
INDUSTRY	467	119	614	652	551
DOE	401	641	36	950	---
NAVY	322	338	202	86	294
POSTGRAD					
"NAVY LABS"	521	281	8	136	---
ARPA	44	442	284	175	---
MMS	325	145	117	124	---
USGS	15	88	144	7	103
ALL OTHERS	72	<u>234</u>	<u>188</u>	<u>172</u>	<u>183</u>
	\$2,982	\$2,479	\$2,280	\$2,796	\$7,635

Notes:

"NAVY LABS" -- NRAD, NOSC, ARI, NUSC, "NAVY", JHU/APL
 ALL OTHER -- MBARI, JOI, EPA, NASA, ARMY, MUSEUMS

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"Other Support" - UNOLS Ship Classes 1994-1997

SHIPS	ACTUAL 1994	ACTUAL 1995	PRELIM 1996	REQUEST 1997
Large	338	403	60	4,670
Intermediate	814	736	1,465	614
Regional	732	896	1,039	1,858
Local	<u>595</u>	<u>245</u>	<u>232</u>	493
	\$2,479	\$2,280	\$2,796	\$7,635

1997 DETAIL

	NAVOCEANO	UK	OTHER
Large	3,084	1,381	205
Intermediate	614	--	--
Regional	776	--	1,080
Local	<u>179</u>	<u>--</u>	<u>314</u>
	\$4,655	\$1,381	1,599



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UNOLS Operations Support Trends Summary

Ships

- One Or More Intermediate/Regional Ship with Reduced Operations 1993-1996
- One Additional Large Ship 1997
- One Additional Local Ship 1997

Funds

- Traditional Sponsors Have Modest Decline In Total Support 1993-1996
- Additional Ships Increase Overall Fleet Cost By Approx. \$4.8m In 1997
- New (One Time?) Funds From Navoceano and United Kingdom Of \$6.0M In 1997
- NOAA Increase Of Approx. \$2.4m In 1997

Future

- ??????
- Probable Reduction Of Academic Fleet If Support Returns To Traditional Sponsors Only
- Large Ships Vulnerable



"Oceanography in the Next Decade" Building New Partnerships

- **The Board recommends that federal agencies with marine-related missions find mechanisms to guarantee the continued vitality of the underlying basic science on which they depend.**
- **NSF, and secondarily ONR, should retain primary responsibility for the vitality of the basic science....**
- **It is particularly important to encourage involvement of mission agencies in sampling and monitoring programs.**
- **At present, a disproportionate share of funds is provided by NSF.**
- **...resources for individual investigator grants could be reduced if other agencies do not assume responsibility for some of the funding.**

(Ocean Studies Board, NAS, 1992)

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