APPENDIX VII



NSF Budget Request - FY 1999

(figures in millions)

	FY 1998	FY 1999	Increase	Percent
Research and Related Activities			111010000	reiceill
Biological Sciences*	370.82	416.52	45.70	12.3%
Computation and Information Sciences	307.17	329.64	22.47	7.3%
Engineering	357.97	400.55	42.58	11.9%
Geosciences	455.11	507.31	52.20	11.5%
Math & Physical Sciences	715.71	792.03	76.32	10.7%
Social & Behavioral Sciences	130.66	150.26	19.60	15.0%
Polar Sciences	228.53	244.96	16.43	7.2%
Critical Tech. Institute	2.73	2.73	0.00	0.0%
	\$2,568.70	\$2,844.00	\$275.30	10.7%
Education & Human Resources	\$632.50	\$683.00	\$50.50	8.0%
Major Research Equipment**	\$109.00	\$94.00	(\$15.00)	-13.8%
Administration/Operations	\$141.80	\$152.00	\$10.20	7.2%
NSF Total	\$3,452.00	\$3,773.00	\$321.00	9.3%

^{*}BIO includes \$40.0M for Plant Genome Research

^{**}MRE includes \$31.0M for MPS projects, \$42.0M for Polar Sciences projects, and \$21.0M for GEO projects



MSF Budget Request - FY 1999

(figures in millions)

	FY 1998	FY 1999	Increase	Percent
Geosciences	• ^			
Atmospheric Sciences*	153.82	170.22	16.40	10.7%
Earth Sciences	95.13	106.70	11.57	12.2%
Ocean Sciences	206.16	230.39	24.23	11.8%
-	\$455.11	\$507.31	\$52.20	11.5%
	FY 1998	FY 1999	Increase	Percent
Ocean Sciences				
Ocean Sciences Research	112.15	127.50	15.35	13.7%
Support				
Oceanographic Centers &	52.26	56.96	4.70	9.0%
Facilities	•			
Ocean Drilling Program	41.75	45.93	4.18	10.0%
_	\$206.16	\$230.39	\$24.23	11.8%

^{*}MRE account includes \$21.0M for Polar Cap Observatory



NSF OCEAN SCIENCES PRIORITIES -FY1999

Ocean Sciences Research Support - \$127.50 M

- enhanced support for individual investigator research projects
- expanded support for interdisciplinary studies of Life in Extreme Environments
- increased support for coastal ocean process studies
- increased support for field programs in earth system history and ecosystems
- expanded modeling and data assimilation efforts for ocean circulation and ocean flux studies
- joint effort with Earth Sciences for more focused studies of continental margins
- continue long term process studies of deep ocean systems and amplify efforts to develop new technologies and instrument systems for "seafloor observatory" capabilities
- additional funds for projects of significance to society in partnerships with national consortia such as National Oceanographic Partnership Program (NOPP) or with international funding agencies such as the European Union.



FY1999

Oceanographic Centers and Facilities - \$56.96 M

- provide support for academic research fleet at level to ensure required ship time and capabilities are provided to satisfy research project requirements
- enhance technical and shared-use instrumentation support for research projects to reduce burdens on sea-going scientists
- continue maintenance and ship-improvement programs for modern and efficient academic research fleet.

Ocean Drilling Program - \$45.93 M

- enhance operational support to ensure research project requirements are met
- complete refit of the JOIDES Resolution
- enhance support for research project awards with focus on earth system history and continental margin studies.



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AND MANAGEMENT REVIEW

Context

- National Science Board reviewed request for continuation of Oceanographic Research Vessel and Submersible Operations awards for 5 years in November, 1997.
- Operations awards were approved for a shorter duration -- 2 years, 1998 and 1999.
- NSF staff are to review and report back on the cost-effectiveness of the present and possible alternative methods of managing ship operations
- Review procedures will follow principles outlined in NSB Resolution concerning Competition, Recompetition, and Renewal of NSF Awards for facilities operations (NSB 97-224).



Action

- Establish Academic Research Fleet Operations Review Panel
 - Six to eight members
 - Academic, industry, and government representatives
- Provide a comprehensive and balanced evaluation of science support services and capabilities, ship operations, and size and organizational structure for the support of the academic research fleet.
- Recommend actions by NSF to ensure the most cost-effective means of organizing and managing the research fleet for support of research requirements.



Terms of Reference

1) Review and evaluate the current and projected research vessel fleet required for research sponsored by the National Science Foundation within a national framework that includes research requirements of other federal agencies, state and local governments, and private sources.

This review should be done in the context of environmental and geoscience research, in general, and the specific contributions the Academic Research Fleet provides to the research enterprise as a whole.

Specific issues include:

- Do the capabilities and operating modes of the academic ships meet research requirements?
- Are the number of ships overall, and distribution within size categories, consistent with the level of research support and type of seagoing research projects expected in the future?
- Are specialized capabilities required to meet research priorities adequately included in the overall fleet profile?



Terms of Reference

2) Review and evaluate overall management structure of the Academic Research Fleet; review and evaluate existing capabilities and services provided by the operating organizations; and review and evaluate possible future changes in academic fleet operations to ensure optimal operations of the academic fleet to support research requirements.

The review context should include consideration of the distributed ownership of the fleet, cost sharing for both capital acquisition and operations and requirements of multiple research sponsors who participate in scientific, operational and financial support.

Specific issues include:

- Are organizational arrangements and structures appropriate?
- Can the Academic Research Fleet system be managed in a more cost-effective manner?
- Should elements of the research fleet be recompeted?

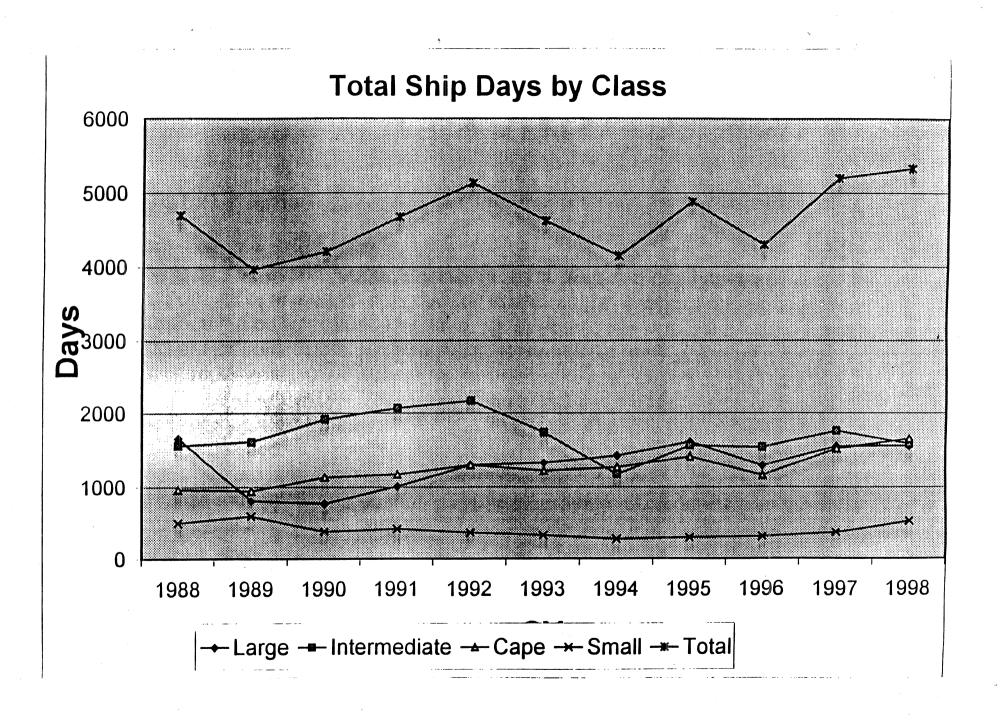


Terms of Reference

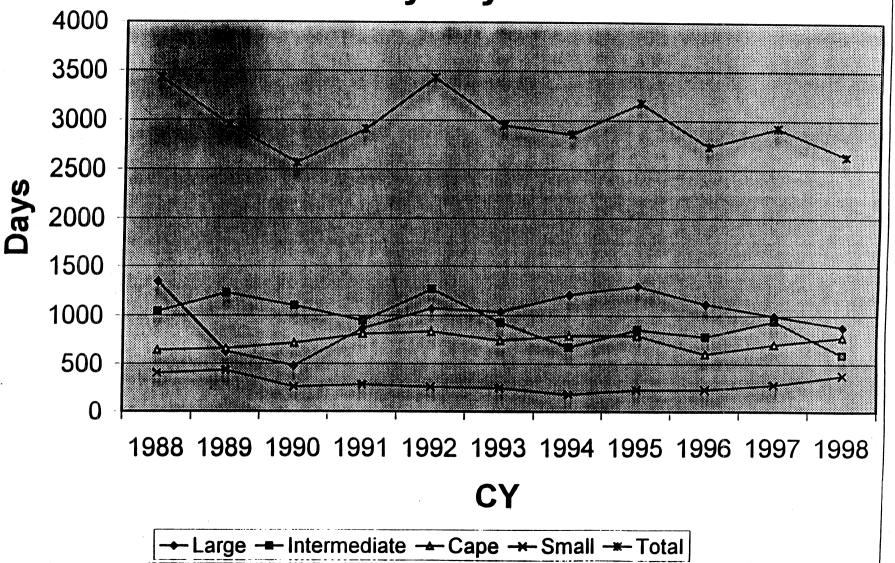
3) Provide recommended actions by NSF to improve the organization, management, and cost effective operation of the Academic Research Fleet in support of scientific capabilities required to maintain world leadership in ocean and environmental science research.

The recommendations should be formulated in the context of the results of the review and evaluations of the first two terms of reference. Key elements include providing a perspective on Academic Research Fleet operations within a national context, relevance and quality of scientific, educational, and technical support; and benefits and added value of any recommended actions for peer reviewed competition or recompetition of research fleet components.

01/30/98



NSF Days by Class



NOF TOTAL DAYS

Ship	Length	1988	1989	1990	1001	4000	4000	4004				
Melville	279	145	148 m/		1991	1992	1993	1994	1995	1996	1997	1998
Knorr	279	280 m			n/)	137	241	302	256	291	200	154
	274	200 M	/l m/	и п	1/1	271	167	218	350	267	153	190
Thompso		•			0	231	223	146	215	171	62	131
Revelle		-								1	233	128
Atlantis		•									157	202
Ewing	239			111	300	190	221	292	180	311	192	76
ΑII	210	254	194	147	247	146	183	253	296	78 o/s	3	
Conrad	208	275	58 o/s	•		. *						
Thompso	208	121 o/s										
Washingt	208	269	229	224	320	94 o/s						
	Sub Total	1344	629	482	867	1069	1035	1211	1297	1119	997	881
Vickers	220			10	86	55	115 o/s					
M.Wave	210	281	285	166	218	223	183	142	171	105	179	111
Johnson	204	12	0	12	12	36	31	50	81	208	179	124
Wecoma	185	169	157	190	154	229	135	75	70	103	116	70
Endeavor	184	144	193	134	67 ^ ^	150 m/l		127	191	78	117	0
Gyre	182	10	91	118	7	51	23	49	0	0	9	31
Oceanus	177	148	227	96	51	171	87 m/l		124	71	155	161
N.Horizon	170	104	67	105	89	130	170	175	193	148	143	60
Iselin	170	164	172	271	228	197	159	4 o/s				
Link	168	7	37	0	34	24	21	51	22	68	43	37
	Sub Total	1039	1229	1102	946	1266	924	673	852	781	941	594
P.Sur	135	41	60	79	49	79	93	119	110	46	81	121
Hatteras	135	137	178	146	187	168	168	130	133 Vu	,-	120	111
Helix	133	194	115	105	109	102	129	145	89	27	71	139
Sproul	125	121	83	101	121	96	30	64	78	79	118	65
Henlopen	120	30	101	35	136	125	128	117	167	158	84	106
Wbird II	115			225	193	215	99	140	151	144	130	134
Sea.Diver	113	,						8	30	57	6	18
Warfield	106	111	107 o/s								•	• • •
Pelican	105	9	16	28	0	34	56	. 29	0	23	54	62
Longhorn	105	0	0	0	15	14 .	39	39	36	70	4	6
Urraca	96 -									0	38	15
	Sub Total	643	660	719	810	833	742	791	794	604	706	777
Laurentia	80	46	46	25	50	28	56	59	79	46	35	140
BlueFin	72	51	37	51	25	72	53	26	72	94	68	76
Calanus	68	116	94	55	72	85	91	50	22	28	76	90
Barnes	66	60	70	129	139	75	46	46	57	61	101	72
WBI	65	130	186 o/s							- •	•	
	Sub Total	403	433	260	286	260	246	181	230	229	280	378
	Total	3429	2951	2563	2909	3428	2947	2856	3173	2733	2924	2630

TOTAL DAYS

Ship	Length	1988	1989	1990	1991	1992	1993	4004				
Melville	279	207	224	m/l	m/l	170	306	1994	1995	1996	1997	1998
Knorr	279	303	m/l	m/l	m/l	271	278	303	297	297	308	216
Thompso	274		••••	*****	83	277		253	350	269	284	266
Revelle	274				. 03	211	282	255	333	246	214	277
Atlantis	274									71	288	316
Ewing	239			198	300	299	224	0.10			185	272
AII	210	343	223	281	292	179	221	310	310	315	273	215
Conrad	208	352	103	o/s	232	175	247	306	319	93	o/s	
Thompso	208	128	o/s	0,0								
Washingt	208	331	260	293	336	105	- 1-					
•	Sub Total	1664	810	772	1011	1301	o/s	4400				
			0.0	***	1011	1301	1334	1427	1609	1291	1552	1562
Vickers	220			10	86	226	203	o/s				
M.Wave	210	300	295	283	269	278	249	215	195	144	202	400
Johnson	204	12	0	177	220	211	136	88	271	305	290	169
Wecoma	185	226	218	239	212	270	220	84	145	198	199	281
Endeavor	184	224	259	220	196	201	m/l	130	228	147	201	226
Gyre	182	133	163	212	220	129	159	148	122	219		158
Oceanus	177	230	252	157	213	313	189	m/l	187	168	184	144
N.Horizon	170	216	169	233	207	175	239	241	240	174	209	245
Iselin	170	217	222	279	239	206	221	21	240 o/s	1/4	259	221
Link	168	7	37	107	206	157	122	247	175	400	o'a a	
	Sub Total	1565	1615	1917	2068	2166	1738	1174	1563	186 1 541	214 1758	141 1585
P Sur	135	141	163	177	155	477	47.					1000
Hatteras	135	204	190	180	155	177	174	185	164	118	188	193
Helix	133	198	155	109	228	216	194	173	175	Vu	221	205
Sproul	125	159	117	135	112	146	167	163	144	73	118	172
Henlopen	120	57	121	64	181	140	146	111	145	155	182	164
Wbird II	115	31	121	238	159	170	157	170	198	185	195	195
Sea Diver	113			230	204	225	109	144	154	167	153	134
Warfield	106	112	107	o/s				138	180	134	105	133
Pelican	105	93	89	121	93	400						
Longhorn	105	0	0	111	93 44	168 58	224	134	182	201	203	244
Urraca	96			111	. 44	28	53	53	72	130	46	63
	Sub Total	964	942	1135	1176	1300	4004				112	147
			042	1133	1170	1300	1224	1271	1414	1163	1523	1650
Laurentia BlueFin	80 72	58	57	53	83	59	62	83	91	72	44	148
		72	61	71	49	108	96	59	75	96	82	95
Calanus Barnes	68	137	160	101	127	110	106	54	48	50	111	167
WBI	66 65	80	108	154	157	87	60	72	77	86	126	119
AADI	- -	154	211	0/s								
	Sub Total	501	597	379	416	364	324	268	291	304	363	529
	Total	4694	3964	4203	4671	5131	4620	4140	4877	4299	5196	5326
	Total										-	

RESULTS FROM SHIP DATA QUERIES

Overview:

Data were queried from two separate data bases the IBM/NSF data base and the Access/OCE panel data bases for the four disciplinary OCE programs (BO, CO, MGG, and PO). The IBM system was queried based on SPDE code entered under the subsection I. Data with codes containing A (Large Shipprimary user) and C (Small Ship-primary user) were returned under this query. Data for the overall number of proposal for each fiscal year, as well as, success rate were gathered using the Executive Information System (EIS). The data covers the period between fiscal year 1988 to fiscal year 1996.

For the Access data bases, data were queried from each separate access file for each program and panel. Data from the various panels, both special panels (e.g. GLOBEC, JGOFS, MESH) and core panels, were combined under one spreadsheet for each program. Data for ship time were based on the information entered under the ship request form in the Access data base. Program Managers provided a detailed list of proposals which have been awarded or declined over the last three to four years. These two data bases were then combined to determine the success rates of proposal with and without ship request, as well as, trends in the number of ship request. Access data covers the period between fiscal year 1996 (1995 for some programs) to fiscal year 1998. In all graphs, data retrieved from the IBM system (1988-1995) are indicated by filled symbols and solid lines. Data retrieved from the Access data base (1996-1998) are indicated by unfilled symbols and dashed lines.

The major difference between the two data bases is that the IBM uses proposals, where as, Access uses projects (treats collaborative proposals as one project) as the basic unit. Generally, the number of projects is 10 - 15% lower than the number of proposals.

NOTE:

The proposal, award and success rate data in this report only track the four large disciplinary program areas in the Ocean Sciences Research Section -- Physical Oceanography, Biological Oceanography, Marine Geology and Geophysics and Chemical Oceanography. Collectively these programs represent approximately 85% of the "research funds" in the division.

The Oceanographic Technology and Interdisciplinary Cooperation (OTIC) program and Education and Human Resources (EHR) program in the research section and the Ocean Drilling Program (ODP) grants program are not included. OTIC was transferred to the research section from the facilities section in 1993 with an expansion of scope and the EHR program was established from ongoing distributed activities in 1997. They and the ODP grants program do not have historical "data bases" equivalent to those used for these statistics.

Figure 1: Overall trends in ship requests-total number of proposals with ship requests (Total), number of awards with ship requests (Awards), and number of declines with ship requests (Declines). Data retrieved from the IBM system (1988-1995) are indicated by filled symbols. Data retrieved from the Access data base (1996-1998) are indicated by unfilled symbols.

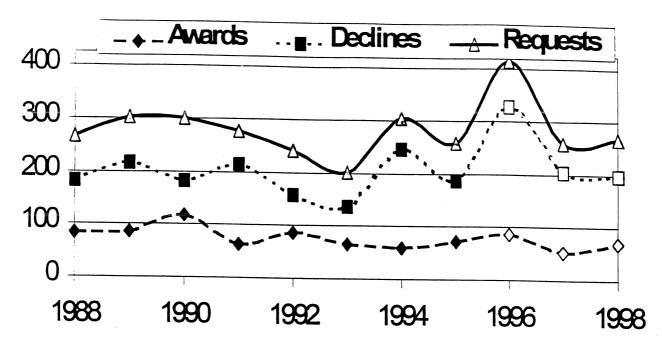


Fig 2. Number of proposals with ship request by program. Data retrieved from the IBM system (1988-1995) are indicated by filled symbols. Data retrieved from the Access data base (1996-1998) are indicated by unfilled symbols.

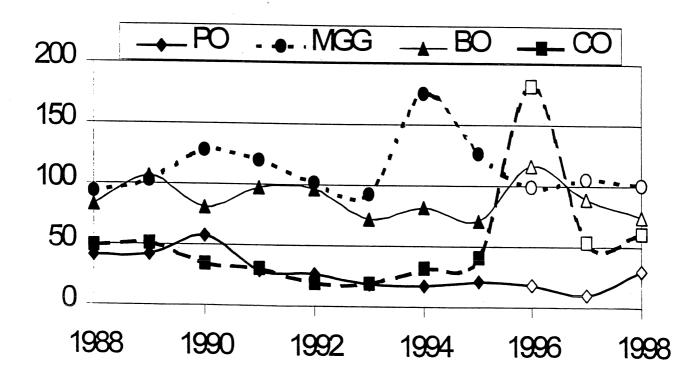


Fig 3. Overall success rates for the four disciplinary programs and success rates for proposal with ship requests. Data retrieved from the IBM system (1988-1995) are indicated by filled symbols. Data retrieved from the Access data base (1996-1998) are indicated by unfilled symbols.

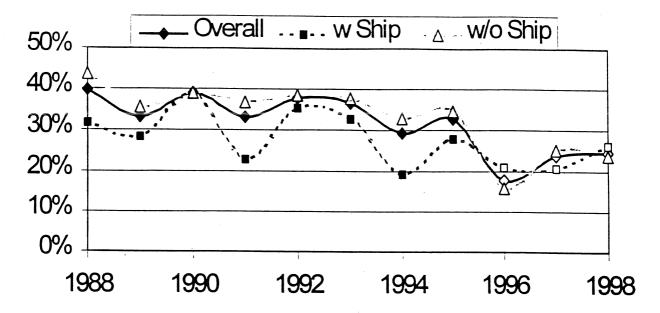


Fig 4. Total number of OSRS proposals and the percent of those proposals requesting ship time. Data retrieved from the IBM system (1988-1995) are indicated by filled symbols. Data retrieved from the Access data base (1996-1998) are indicated by unfilled symbols.

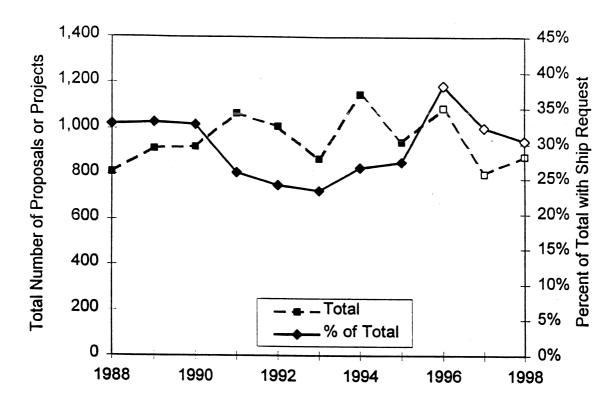


Fig. 5. Total number of OSRS awards and the percent of those awards requesting ship time. Data retrieved from the IBM system (1988-1995) are indicated by filled symbols. Data retrieved from the Access data base (1996-1998) are indicated by unfilled symbols.

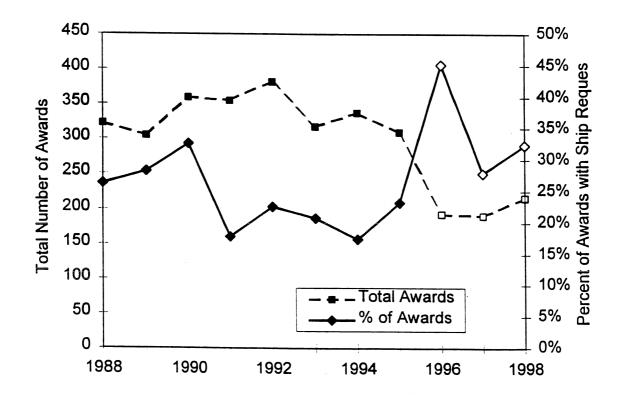


Table 1: Summary of ship request data used in this analysis. Difference refers to the difference between the success rate of projects with ship time and projects without ship time (a + number indicates projects with ship time had a higher success rate then those without ship time). Bold type indicates data retrieved from the Access system; all other data are from the IBM system.

Year Program	*********SI	hip Request:			otal Propos	ale Cons		Sircaco	77-	
	Awards 😅 [Declines ==:	Total	Awards	Declines &	STOLET 2	Overally	Wishin	WA3315	eli/-rences
1988 PO	12	29	41	72	78	150	48%	29%	55%	
1989 PO	14	28	42	52	87	139	37%	33%	39%	-26%
1990 PO	29	28	57	96	114	210	46%	51%	44%	-6% 7%
1991 PO	11	18	29	70	102	172	41%	38%	41%	-3%
1992 PO	-20	6	26	82	102	184	45%	77%	39%	38%
1993 PO	9	9	18	68	87	155	44%	50%	43%	7%
1994 PO	6	11	17	69	125	194	36%	35%	36%	0%
1995 PO	6	15	21	75	97	172	44%	29%	46%	-17%
1996 PO	4	14	18	35	121	156	22%	22%	22%	0%
1997 PO	2	8	10	40	61	101	40%	20%	42%	-22%
1998 PO	8	22	30	59	125	184	32%	27%	33%	-6%
1988 MGG	26	68	94	105	161	266	39%	28%	46%	-18%
1989 MGG	. 24	79	103	95	184	279	34%	23%	40%	-17%
1990 MGG 1991 MGG	43	85	128	128	193	321	40%	34%	44%	-10%
1991 MGG	27	93	120	118	250	368	32%	23%	37%	-14%
	23	79	102	101	219	320	32%	23%	36%	-13%
1993 MGG 1994 MGG	22	71	93	98	210	308	32%	24%	35%	-12%
1995 MGG	30	145	175	122	305	427	29%	17%	37%	-19%
1996 MGG	34	92	126	102	227	329	31%	27%	33%	-7%
1997 MGG	15	84	99	64	351	415	15%	15%	. 16%	0%
1998 MGG	14	91	105	69	248	317	22%	13%	26%	-13%
1988 BO	19	82	101	67	208	275	24%	19%	28%	-9%
1989 BO	24	59	83	74	160	234	32%	29%	33%	4%
1990 BO	30	76	106	94	224	318	30%	28%	30%	-2%
1991 BO	26 12	55 05	81	89	195	284	31%	32%	31%	1%
1992 BO	30	85 66	97	. 91	266	357	25%	12%	3 0%	-18%
1993 BO	27	66	96	127	262	389	3 3%	31%	3 3%	-2%
1994 BO	14	45 69	72	91	189	280	33%	38%	31%	7%
1995 BO	20	68	82	92	268	360	26%	17%	28%	-11%
1996 BO	37	51 7 9	71	80	191	271	30%	28%	30%	-2%
1997 BO	16	73	116 89	5 5	211	266	21%	32%	12%	20%
1998 BO	29	46	75	52 62	208	260	20%	18%	21%	-3%
1988 CO	23	26	49	62	198	260	24%	39%	18%	21%
1989 CO	18	33	51	72 64	90	162	44%	47%	43%	4%
1990 CO	19	16	35	64 46	114	178	36%	35%	36%	-1%
1991 CO	13	18	31	76	6 0 9 6	106	43%	54%	38%	16%
1992 CO	13	6	19	71	45	172 116	44%	42%	45%	-3%
1993 CO	8	11	19	61	64		61%	68%	60%	9%
1994 CO	9	23	32	5 5	114	125 169	49% 33%	42%	50%	-8%
1995 CO	12	29	41	53	118	171		28 %	34%	-5%
1996 CO	31	151	182	39	213	252	31% 1 5%	29% 17%	32%	-2%
1997 CO	21	33	54	29	93	122	24%	17 % 39 %	11%	6%
1998 CO	14	47	61	28	132	160	18%	23%	12% 14%	27%
1988 OSRS	85	182	267	323	489	812	40%	32%	44%	9%
1989 OSRS	86	216	302	3 05	609	914		28%	36%	-12%
1990 OSRS	117	184	301	359	562	921	39%	39%	39%	-7% 0%
19 91 OSRS	63	214	277	355	714	1069	3 3%	23%	37%	-14%
1992 OSRS	86	157	243	381	62 8	1009	38%	35%	39%	-3%
1993 OSRS	66	136	202	318	550	868	37%	3 3%	38%	-5%
1994 OSRS	59	247	306	338	812	1150		19%	33%	-14%
1995 OSRS	72	187	259	310	633	943	33%	28%	3 5%	-7%
1996 OSRS	87	328	415	193	896	1089	18%	21%	16%	5%
1997 OSRS	53	205	258	190	610	800		21%	25%	-5%
1998 OSRS	70	197	267	216	6 63	879	25%	26%	24%	2%



UNIVERSITY-NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM



An association of institutions for the coordination and support of university oceanographic facilities.

DATE:

10/9/98

TO:

Distribution

FROM:

Bob Knox, UNOLS Chair

SUBJECT:

Success rates of NSF proposals, ship and non-ship

At the September UNOLS Council meeting there was some discussion about the interpretation of a chart of historical proposal success rates (*Enclosure 1*) presented by Don Heinrichs. Don has kindly provided the underlying data to UNOLS, and I have done a small amount of additional analysis (*Enclosure 2*).

The table lists awards, declines, and the sum of these, by year and by NSF/OCE science program, broken into categories of proposals requesting ship use, proposals not requesting ship use, and the total. The fifth block on pg. 2 sums across the four disciplinary programs. A success is an award of any size, not necessarily the amount proposed, as Don has noted.

The only numbers I have added are "success ratio," i.e., the chance of getting a seagoing proposal funded as compared to a non-seagoing one. The algebra is just [(sum of seagoing awards)/(sum of seagoing awards and declines)]/[(sum of nonseagoing awards)/(sum of nonseagoing awards and declines)] using the data in the table. "Sum" in all cases is over the 11 years tabulated.

The overall success ratio, thus defined, is 82%, i.e. on average a seagoing proposer had 4/5 the prospect of success that a non-seagoer did. This varies significantly by program: it is a nearly even chance in PO and BO, a 7/8 shot in CO, and a 2/3 shot in MG&G. One also sees that MG&G has been fairly consistent over time in this pattern; the other programs show larger year-to year variations. I suppose these have to do with random statistics of proposal submissions and quality, and with time scales of major field programs like WOCE, JGOFS, etc.

Don has noted in providing these data that the NSF data system changed between 1995 and 1996. The main difference is that in the earlier years individual proposals were counted, whereas in the recent years a set of collaborative proposals is counted as one. It is estimated that this may shift the overall proposal count down by 10-15% in the later years compared to what the previous system would have counted. It seems unlikely that it would change the ship vs. non-ship comparison in any significant way.

Distribution:

UNOLS Council, current and immediate past

D. Hayes
D. Heinrichs
UNOLS Office

Enclosures:

1. NSF Overall Proposal Success Rate Chart (Fig. 3)

2. Bob Knox's Table - NSF Ship/non-ship proposal success data

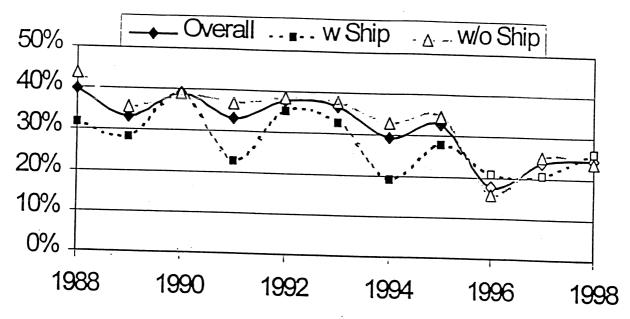
P.O. Box 392 aunderstown, RI 02874



Phone: (401) 874-6825
Fax: (401) 874-6167

E-mail: unols@gso.uri.edm

Fig 3. Overall success rates for the four disciplinary programs and success rates for proposal with ship requests. Data retrieved from the IBM system (1988-1995) are indicated by filled symbols. Data retrieved from the Access data base (1996-1998) are indicated by unfilled symbols.



Nsfdata2.xls

		Ship		ı	Ion-Ship	p	Ship a	and Nor	n-Ship	Success Rates			Diff.
	Awd.	Decl.	Tot.	Awd.	Decl.	Tot	Awd.	Decl.	Tot.	All	Ship	Non-Ship	S - NS
									-		-		
P088	12	29	41	60	49	109	72	78	150	48%	29%	55%	-26%
89	14	28	42	38	59	97	52	87	139	37%	33%	39%	-6%
90	29	28	57	67	86	153	96	114	210	46%	51%	44%	7%
91	11	18	29	59	84	143	70	102	172	41%	38%	41%	-3%
92	20	6	26	62	96	158	82	102	184	45%	77%	39%	38%
93	9	9	18	59	78	137	68	87	155	44%	50%	43%	7%
94	6	11	17	63	114	177	69	125	194	36%	35%	36%	0%
95	6	15	21	69	82	151	75	97	172	44%	29%	46%	-17%
96	4	14	18	31	107	138	35	121	156	22%	22%	22%	0%
97	2	8	10	38	53	91	40	61	101	40%	20%	42%	-22%
98	8	22	30	51	103	154	59	125	184	32%	27%	33%	-6%
											<u> </u>		
										PO Suc	cess Rati	0	99%
GG 88	26	68	94	79	93	172	105	161	260	200	2004	400/	100
89	24	79	103	79	105	176	95		266	39%	28%	46%	-18%
90	43	85	128	85	108	193	128	184	279 321	34%	23%	40%	-17%
91	27	93	120	91	157	248	118	193 250	368	40% 32%	34% 23%	44%	-10%
92	23	79	102	78	140	218	101	219	320			37%	-14%
93	22	71	93	76	139	215	98	210	308	32% 32%	23% 24%	36% 35%	-13% -12%
94	30	145	175	92	160	252	122	305	427	29%	17%	35%	-12%
95	34	92	126	68	135	203	102	227	329	31%	27%	33%	-1376
96	15	84	99	49	267	316	64	351	415	15%	15%	16%	0%
97	14	91	105	55	157	212	69	248	317	22%	13%	26%	-13%
98	19	82	101	48	126	174	67	208	275	24%	19%	28%	-9%
					, , ,		<u> </u>			2170	1070	20 /0	0 70
										MG&G	Success	Ratio	67%
													0,70
BO 88	24	59	83	50	101	151	74	160	234	32%	29%	33%	-4%
89	30	76	106	64	148	212	94	224	318	30%	28%	30%	-2%
90	26	55	81	63	140	203	89	195	284		 	31%	1%
91	12	85	97	79	181	260	91	266	357		+		-18%
92	30	66	96	97	196	293	127	262	389	33%	 		-2%
93	27	45	72	64	144	208	91	189	280	33%	38%	31%	7%
94	14	68	82	78	200	278	92	268	360	26%	17%	28%	-11%
95	20	51	71	60	140	200	80	191	271	30%	28%	30%	-2%
96	37	79	116	18	132	150	55	211	266	21%	32%	12%	20%
97	16	73	89	36	135	171	52	208	260	20%	18%	21%	-3%
98	29	46	75	33	152	185	62	198	260	24%	39%	18%	21%
										BO Suc	cess Rati	io	99%

Nsfdata2.xls

		Ship		Non-Ship			Ship a	and Nor	n-Ship	Suc	cess Rat	es	Diff.
	Awd.	Decl.	Tot.	Awd.	Decl.	Tot	Awd.	Decl.	Tot.	All	Ship	Non-Ship	S - NS
CO 88	23	26	49	49	64	113	72	90	162	44%	47%	43%	4%
89	18	33	51	46	81	127	64	114	178	36%	35%	36%	-1%
90	16	16	32	30	44	74	46	60	106	43%	50%	41%	9%
91	13	18	31	63	78	141	76	96	172	44%	42%	45%	-3%
92	13	6	19	58	39	-97	71	45	116	61%	68%	60%	9%
93	8	11	19	53	53	106	61	64	125	49%	42%	50%	-8%
94	9	23	32	46	91	137	55	114	169	33%	28%	34%	-5%
95	12	29	41	41	89	130	53	118	171	31%	29%	32%	-2%
96	31	151	182	8	62	70	39	213	252	15%	17%	11%	6%
97	21	33	54	8	60	68	29	93	122	24%	39%	12%	27%
98	14	47	61	14	85	99	28	132	160	18%	23%	14%	9%
										CO Suco	ess Ratio)	87%
ALL 88	85	182	267	238	307	545	323	489	812	40%	32%	44%	-12%
89	86	216	302	219	393	612	305	609	914	33%	28%	36%	-7%
90	117	184	301	242	378	620	359	562	921	39%	39%	39%	0%
91	63	214	277	292	500	792	355	714	1069	33%	23%	37%	-14%
92	86	157	243	295	471	766	381	628	1009	38%	35%	39%	-3%
93	66	136	202	252	414	666	318	550	868	37%	33%	38%	-5%
94	59	247	306	279	565	844	338	812	1150	29%	19%	33%	-14%
95	72	187	259	238	446	684	310	633	943	33%	28%	35%	-7%
96	87	328	415	106	568	674	193	896	1089	18%	21%	16%	5%
97	53	205	258	137	405	542	190	610	800	24%	21%	25%	-5%
98	70	197	267	146	466	612	216	663	879	25%	26%	24%	2%
											<u>-</u>		
									All OS	RS Succe	ss Ratio		82%