DEPARTMENT OF THE NAVY FISCAL YEAR (FY) 2000/2001 BIENNIAL BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES FEBRUARY 1999

OTHER PROCUREMENT, NAVY BUDGET ACTIVITY 7

UNCLASSIFIED

Department of the Navy

FY 2000/2001 Procurement Program

Exhibit P-1

			(DOLLARS)	TOR, \$ IN MILLION5									
LINE		IDENT	FY 2000	FY 1998		FY 1999		FY 2000		FY 2001			
NO	ITEM NOMENCLATURE	CODE	UNIT COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST C		
BUDGET	ACTIVITY 07: Personnel and	Command	l Support Equ	ipment									
Traini	ng Devices												
192 808	1 Training Support Equipment	A			2.0		5.2		3.1		2.2 U		
Comman	d Support Equipment												
193 810	6 Command Support Equipment	A			21.7		22.0		14.5		10.7 U		
194 810	8 Education Support Equipment	A			2.1		-		-		- U		
195 810	9 Medical Support Equipment	A			-		2.5		5.0		7.8 U		
196 811	5 Intelligence Support Equipm	ien A			23.6		21.6		19.4		17.4 U		
197 811	8 Operating Forces Support Eq	rui A			10.2		6.2		5.8		4.4 U		
198 812	6 Environmental Support Equip	ome A			20.9		16.6		18.4		22.5 U		
199 812	8 Physical Security Equipment	A			.3		-		1.4		2.5 U		
Other													
200 815	0 Cancelled Account Adjustmer	its A		_	10.0	_	-	_	-	_	- U		
TOTAL	Personnel and Command Suppor	t Equip	oment		90.9		74.1		67.6		67.6		

999

Other Procurement, Navy

	Other Procurement, N	Navy			
	Program and Financing (in Thousar	nds of dollars) Budget P ac	elan (amounts tions program	for PROCUREM	IENT
Identifi	cation code 17-1810-0-1-051	1998 actual	1999 est.	2000 est.	2001 est.
P	rogram by activities:				
	Direct program:				
00.0101	Ships support equipment	727,750	954,401	858,709	703,509
00.0201	Communications and electronics equipment	1,095,702	1,629,901	1,845,227	1,531,094
00.0301	Aviation support equipment	204,148	243,679	216,237	215,043
00.0401	Ordnance support equipment	520,423	715,972	629,418	668,357
00.0501	Civil engineering support equipment	48,370	54,856	67,144	94,062
00.0601	Supply support equipment	54,583	89,537	139,628	180,239
00.0701	Personnel and command support equipment	136,986	74,063	67,598	67,570
00.0801	Spares and repair parts	219,654	246,506	276,130	180,279
00.9101	Total direct program	3,007,616	4,008,915	4,100,091	3,640,153
01.0101	Reimbursable program	49,428	42,000	42,000	42,000
10.0001	Total	3,057,044	4,050,915	4,142,091	3,682,153
F	inancing:				
	Offsetting collections from:				
11.0001	Federal funds(-)	-1,417	-42,000	-42,000	-42,000
14.0001	Non-Federal sources(-)	-48,011			
17.0001	Recovery of prior year obligations				
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans				
21.4003	Available to finance new budget plans	-7,700	-28,500		
21.4009	Reprograming from/to prior year budget plans	-20,391			
22.1001	Unobligated balance transferred to other accounts	11,177			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans				
24.4003	Available to finance subsequent year budget plans	28,500			
25.0001	Unobligated balance expiring	9,214			
39.0001	Budget authority	3,028,416	3,980,415	4,100,091	3,640,153
	Budget authority:				
40.0001	Appropriation	3,136,505	4,005,415	4,100,091	3,640,153
40.3601	Appropriation rescinded (unob bal)		-28,500		
40.7601	Reduction pursuant to P.L. 105-56 (-), 8035	-56,735			
41.0001	Transferred to other accounts (-)	-82,017			
42.0001	Transferred from other accounts	30,663	3,500		
43.0001	Appropriation (adjusted)	3,028,416	3,980,415	4,100,091	3,640,153

Other Procurement, Navy Program and Financing (in Thousands of dollars)

Obligations

Identifi	cation code 17-1810-0-1-051	1998 actual	1999 est.	2000 est.	2001 est.
I	Program by activities:				
	Direct program:				
00.0101	Ships support equipment	730,410	803,087	845,223	739,332
00.0201	Communications and electronics equipment	1,127,427	1,479,892	1,756,499	1,583,160
00.0301	Aviation support equipment	222,704	210,650	212,051	216,653
00.0401	Ordnance support equipment	511,296	612,449	611,088	664,897
00.0501	Civil engineering support equipment	46,899	46,682	62,833	88,063
00.0601	Supply support equipment	57,524	74,718	127,586	169,612
00.0701	Personnel and command support equipment	85,983	122,715	76,319	67,896
00.0801	Spares and repair parts	220,864	204,354	263,425	197,969
00.9101	Total direct program	3,003,107	3,554,547	3,955,024	3,727,582
01.0101	Reimbursable program	46,543	47,000	42,526	42,000
10.0001	Total	3,049,650	3,601,547	3,997,550	3,769,582
I	'inancing:				
	Offsetting collections from:				
11.0001	Federal funds(-)	-4,242	-42,000	-42,000	-42,000
14.0001	Non-Federal sources(-)	-46,448			
17.0001	Recovery of prior year obligations	-9,138			
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans	-439,651	-437,055	-886,423	-1,030,964
21.4003	Available to finance new budget plans	-7,700	-28,500		
21.4009	Reprograming from/to prior year budget plans				
22.1001	Unobligated balance transferred to other accounts	11,177			
24 4002	For completion of prior year budget plans	437 055	886 423	1 030 964	943 535
24 4003	Available to finance subsequent year budget plans	28 500	000,120	1,000,001	20,000
25 0001	Unobligated balance expiring	9 214			
23.0001	Shobiigacea baranee expring				
39.0001	Budget authority	3,028,416	3,980,415	4,100,091	3,640,153
	Budget authority:				
40.0001	Appropriation	3,136,505	4,005,415	4,100,091	3,640,153
40.3601	Appropriation rescinded (unob bal)		-28,500		
40.7601	Reduction pursuant to P.L. 105-56 (-), 8035	-56,735			
41.0001	Transferred to other accounts (-)	-82,017			
42.0001	Transferred from other accounts	30,663	3,500		
43.0001	Appropriation (adjusted)	3,028,416	3,980,415	4,100,091	3,640,153

Other Procurement, Navy Program and Financing (in Thousands of dollars)

Obligations

cation code 17-1810-0-1-051	1998 actual	1999 est.	2000 est.	2001 est.
Relation of obligations to outlays:				
Obligations incurred	2,998,960	3,559,547	3,955,550	3,727,582
From Federal sources: Receivables and unpaid, unfilled orders, SOY	-89,947	-78,045	-78,045	-78,045
Obligated balance, start of year	3,407,474	3,193,644	3,249,253	3,563,053
From Federal sources: Receivables and unpaid, unfilled orders, EOY	78,045	78,045	78,045	78,045
Obligated balance, end of year	-3,193,644	-3,249,253	-3,563,053	-3,492,582
Adjustments in expired accounts (net)	-230,320			
Adjustments in unexpired accounts	-9,138			
Outlays (net)	2,961,430	3,503,938	3,641,750	3,798,053
	.cation code 17-1810-0-1-051 Relation of obligations to outlays: Obligations incurred From Federal sources: Receivables and unpaid, unfilled orders, SOY Obligated balance, start of year From Federal sources: Receivables and unpaid, unfilled orders, EOY Obligated balance, end of year Adjustments in expired accounts (net) Adjustments in unexpired accounts Outlays (net)	.cation code 17-1810-0-1-051 1998 actual Prom Federal sources: Receivables and unpaid, unfilled orders, SOY 2,998,960 Prom Federal sources: Receivables and unpaid, unfilled orders, SOY 3,407,474 Prom Federal sources: Receivables and unpaid, unfilled orders, EOY 78,045 Obligated balance, end of year -3,193,644 Adjustments in expired accounts (net) -230,320 Adjustments in unexpired accounts -9,138 Outlays (net) 2,961,430	.cation code 17-1810-0-1-051 lelation of obligations to outlays: Obligations incurred From Federal sources: Receivables and unpaid, unfilled orders, SOY Obligated balance, start of year From Federal sources: Receivables and unpaid, unfilled orders, SOY Obligated balance, end of year Adjustments in expired accounts (net) Adjustments in unexpired accounts Outlays (net) .cation code 17-1810-0-1-051 1998 actual 1999 est. 2,998,960 3,559,547 -89,947 -78,045 3,407,474 3,193,644 -3,249,253 -3,193,644 -3,249,253 -3,193,644 -3,249,253 -3,193,644 -3,249,253 -230,320 -9,138 	.cation code17-1810-0-1-0511998 actual1999 est.2000 est.Welation of obligations to outlays: Obligations incurred2,998,9603,559,5473,955,550From Federal sources: Receivables and unpaid, unfilled orders, SOY Obligated balance, start of year2,998,9603,559,5473,955,550From Federal sources: Receivables and unpaid, unfilled orders, SOY Obligated balance, end of year3,407,4743,193,6443,249,253Adjustments in expired accounts Outlays (net)-3,193,644-3,249,253-3,563,053Outlays (net)2,961,4303,503,9383,641,750

Other Procurement, Navy Object Classification (in Thousands of dollars)

Identification code 17-1810-0-1-051	1998 actual	1999 est.	2000 est.	2001 est.
Direct obligations:				
125.101 Advisory and assistance services	20,243	25,686	25,286	25,804
Purchases goods/services from Government accounts				
125.301 Purchase of goods/services from Government accounts	50,825	48,754	56,614	56,259
125.303 Purchases from revolving funds	647,649	708,534	799,399	737,514
126.001 Supplies and materials	109,613	133,007	105,941	58,389
131.001 Equipment	2,174,777	2,638,566	2,967,784	2,849,616
199.001 Total Direct obligations	3,003,107	3,554,547	3,955,024	3,727,582
Reimbursable obligations:				
231.001 Equipment	46,543	47,000	42,526	42,000
299.001 Total Reimbursable obligations	46,543	47,000	42,526	42,000
999.901 Total obligations	3,049,650	3,601,547	3,997,550	3,769,582

Comparison of FY 1998 Financing as reflected in FY 1999 Budget with 1998 Financing as Shown in the FY 2000 Budget

(\$ In Thousands)

	Financing Per FY 1999 Budget	Financing Per FY 2000 Budget	Increase (+) or Decrease (-)
Program Requirements (Total)	\$3,030,074	\$3,057,044	+\$26,970
Program Requirements (Service Account)	(\$2,988,074)	(\$3,007,616)	(+19,542)
Program Requirements (Reimbursable)	(\$42,000)	(\$49,428)	(+7,428)
Appropriation (Adjusted)	\$2,982,574	\$3,028,416	+\$45,842

Explanation of Changes in Financing

The Fiscal Year 1998 program has changed since the presentation of the FY 1999 budget as noted below:

1. <u>Program Requirements</u>. There has been a net increase to the appropriation (adjusted) of (+\$45,842). This net change is comprised of an increase in program requirements (+\$19,542) plus an increase in reimbursable authority of (+\$7,428).

Comparison of FY 1998 program requirements as reflected in the FY 1999 Budget with FY 1998 program requirements as shown in the FY 2000 Budget

Summary of Requirements (\$ in Thousands)

	Total Program Requirements per EX 1999 Budget	Total Program Requirements per EX 2000 Budget	Increase (+) or
Ships Support Equipment	\$721,811	\$724,150	+\$2,339
Communications and Electronic Equip	1,165,616	1,141,796	-23,820
Aviation Support Equipment	188,669	204,148	+15,479
Ordnance Support Equipment	517,909	520,423	+2,514
Civil Engineering Support Equip	46,404	51,970	+5,566
Supply Support Equipment	51,902	54,583	+2,681
Personnel and Command Support Equip	79,788	90,892	+11,104
Spares and Repair Parts	215,975	219,654	+3,679
Total Fiscal Year Program	\$2,988,074	\$3,007,616	+\$19,542

Explanation by Budget Activity (\$ In Thousands)

1. <u>SHIP SUPPORT EQUIPMENT (+\$2,339)</u> - Net increase reflecting (-\$8,300) FY 1998 Congressional recissions and internal reprogrammings (+\$10,639) including (+\$4,606) for Counter Drug Interdiction.

Explanation by Budget Activity (Continued) (\$ In Thousands)

2. <u>COMMUNICATIONS & ELECTRONIC EQUIPMENT (-\$23,820)</u> - Net decrease reflecting (-\$2,300) FY 1998 Congressional recission, decrease for economic assumptions (-\$7295), offsets for higher priority Navy programs, (-\$7829), and internal reprogramming actions of (-\$6396).

3. <u>AVIATION SUPPORT EQUIPMENT (+\$15,479)</u> - Net increase reflecting (+\$17,779) Congressional adjustments, and FY 1998 recisions (-\$2,300).

- 4. <u>ORDNANCE SUPPORT EQUIPMENT (+\$2,514)</u> Net increase reflecting FY 1998 recisions (-\$15,000), and Congressional adjustments (+\$18,514).
- 5. <u>CIVIL ENGINEERING SUPPORT (+\$5,566)</u> Net increase reflecting Congressional adjustments (+\$4,500), and internal realignments (+\$1,566).

6. <u>SUPPLY SUPPORT EQUIPMENT (+\$2,691)</u> - Net increase reflecting Congressional adjustments (-\$1,279), internal realignments (-\$330), and adjustment for Automated Teller Machines at Sea (+\$4,300).

7. <u>PERSONNEL & COMMAND SUPPORT (+\$11,104)</u> - Net increase reflecting Congressional adjustments (+\$8,000), economic assumptions (-\$932), and increases for high priority Navy programs including paperless acquisition (+\$4,036).

8. <u>SPARES & REPAIR PARTS (+\$3,679)</u> - Net increase reflecting economic assumptions (-\$1,381), and internal realignments (+\$5,060).

Comparison of FY 1999 Financing as reflected in FY 1999 Budget with 1999 Financing as Shown in the FY 2000 Budget

(\$ In Thousands)

	Financing Per FY 1999 Budget	Financing Per FY 2000 Budget	Increase (+) or Decrease (-)
Program Requirements (Total)	\$3,979,737	\$4,050,915	+\$71,178
Program Requirements (Service Account)	(\$3,937,737)	(\$4,008,915)	(+71,178)
Program Requirements (Reimbursable)	(\$42,000)	(\$42,000)	Ó
Appropriation (Adjusted)	\$3,937,737	\$3,980,415	+\$42,678

Explanation of Changes in Financing

The Fiscal Year 1998 program has changed since the presentation of the FY 1998 budget as noted below:

1. <u>Program Requirements</u>. There has been a net increase to the appropriation (adjusted) of +\$42,678. This net change is comprised of an increase in program requirements (+\$71,178), less rescissions of (-\$28,500).

Comparison of FY 1999 program requirements as reflected in the FY 1999 Budget with FY 1999 program requirements as shown in the FY 2000 Budget

Summary of Requirements (\$ in Thousands)

	Total Program Requirements per FY 1999 Budget	Total Program Requirements per FY 2000 Budget	Increase (+) or Decrease (-)
Ships Support Equipment	\$963,074	\$954,401	-\$8,673
Communications and Electronic Equip	1,530,802	1,629,901	+99,099
Aviation Support Equipment	245,663	243,679	-1,984
Ordnance Support Equipment	674,703	715,972	+41,269
Civil Engineering Support Equip	69,902	54,856	-15,046
Supply Support Equipment	108,905	89,537	-19,368
Personnel and Command Support Equip	65,660	74,063	+8,403
Spares and Repair Parts	279,028	246,506	-32,522
Total Fiscal Year Program	\$3,937,737	\$4,008,915	+\$90,546

Explanation by Budget Activity (\$ in Thousands)

1. <u>Ships Support Equipment (-\$8,673)</u> – Net changes reflect FY 1998 Congressional adjustments (-\$8,673).

2. <u>Communications and Electronics Equipment (+\$99,099)</u> – Net changes reflect FY 1998 Congressional reductions (-\$61,730), Congressional increases(+\$155,206), and DoN internal realignments (+\$5,623).

Comparison of FY 1999 program requirements as reflected in the FY 1999 Budget with FY 1999 program requirements as shown in the FY 2000 Budget

Explanation by Budget Activity (Continued) (\$ in Thousands)

3. <u>Aviation Support Equipment (-\$1,984)</u> - Changes reflect FY 1998 Congressional reductions (-\$9,551), Congressional increases(+\$18,000), and DoN offsets for higher priority programs (-\$6,465).

4. <u>Ordnance Support Equipment (+\$41,269</u>) - Changes reflect FY 1998 Congressional reductions (-\$7,960), Congressional increases(+\$47,800), and DoN internal realignments (+\$1,429).

5. <u>Civil Engineering Support Equipment (-\$15,046</u>) - Changes reflect FY 1998 Congressional reductions (-\$7,260), and DoN offsets for higher priority programs (-\$7,786).

6. <u>Supply Support Equipment (-\$19,368)</u> - Changes reflect FY 1998 Congressional reductions (-\$27,417), and DoN realignments for Automated Teller Machines at Sea (+\$8,049).

7. <u>Personnel and Command Support (+\$8,043)</u> - Changes reflect Congressional reductions (-\$297), Congressional increases (+\$6,500), and DoN realignments for Paperless Acquisition (+\$2,200).

8. <u>Spare and Repair Parts (-\$32,522)</u> - Changes reflect FY 1998 Congressional reductions (-\$32,522).

DEPARTMENT OF THE NAVY OTHER PROCUREMENT, NAVY FY 2000 PRESIDENT'S BUDGET

	r																1	
		APPROPRIATIO	N		BUI	DGET ACTIV	ITY: 7					LINE ITEM: 8081						
		OTHER PROCU	REMEN	IT, NAVY	PEF	SONNEL AN	ND CON	MMAND SUPP	PORTE	EQUIPMENT		TRAINING SUPPORT EQUIPMENT FEB 1999						1999
								TOTAL COS	IS IN T	HOUSANDS								
NO	ITEM	END USER	F	Y 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAI COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
1	STASS	VARIOUS		1,884		2,15	4	3,076		2,242		2,	232	2,226		2,27	3	2,320
2	PRIOR YEAR PAYMENT			105			0	C		0			0	0			0	0
3	LASER MARKSMANSHIP																	
	TRAINING SYSTEM(LMTS)					3,00	0											
	TOTAL			1,989		5,15	4	3,076		2,242		2,	232	2,226	i	2,27	3	2,320

P40 - JUSTIFICATION STATEMENT:

1. STASS is a mission critical training management system approved by CNET as delegated by ASN (RD&A) to be implemented at 90+ Navy training activities. STASS will eliminate seven legacy systems that are more than 15 years old, obsolete both technically and functionally, and becoming cost prohibitive to maintain. STASS will provide comprehensive automation support tools for the day to day schoolhouse training functions. In today's environment when accurate and current information is critical to the training mission and in accordance with SECNAV's direction, there are no alternatives. STASS "up-line" reporting provides accurate student status and quota utilization information to the Navy Integrated Training Resource Management System (NITRAS) and the planned Navy Training Reservation System (NTRS). These systems, STASS/NITRAS/NTRS, form the overarching strategy which integrates the critical functions required for the efficient and effective recruiting, training, and distribution of personnel to the fleet. Together these systems, known as the Integrated Navy Training Requirements and Planning Data Base (INTRPD), will support on-line real time synchronization of data bases and will provide timely accurate processing of military manpower between the personnel and training commands. STASS is a major building block and key element to the success of the INTRPD concept.

2. As directed by the Assistant Secretary of the Navy (Financial Management and Comptroller) in the letter dated 27 January 1998, CNET has used \$105K of FY 1998 funds to pay a prior year bill to the IBM Corporation.

3. The Laser Marksmanship Training System (LMTS) will enable military personnel to train with their own weapons and do so under home station conditions thereby conserving ammunition and other resources. LMTS is so precise that it can be used to correct the aim of both weapons and aiming devices. Congress provided funding for the LMTS in FY 1999.

EXHIBIT P-40 P-1 Line Item No. 192 Page 1 of 2

Appropriation/Budget Activity:			P-1 Line Item No	omenclature:
OTHER PROCUREMENT, NAVY		TRAINING SUP	PORT EQPT	
BA-7 - Training Support Equipment			LI: 8081	
COST ELEMENTS:	ID Code	FY 98	FY 99	FY00
Hardware for		Total	Total	Total
STASS Locations		Cost	Cost	Cost
NAVSUBSCOL NEW LONDON		0.417		
NETC NEWPORT RI		0.121		
EWTGPAC		0.121		
FTC SAN DIEGO/WTG/NI		0.417		
NAVSUBTRACENPAC		0.232		
SUBTRACENPACDet SAN DIEGO		0.121		
EWTGL LCREEK		0.121		
NAVTECHTRACEN CORRY		0.232		
NAVLEADTRU CORON		0.043		
NTTC LACKLAND AFB, TX		0.059		
SWOSCOLCOM NEWPORT			0.121	
FCTCP SAN DIEGO			0.121	
			0.121	
			0.043	
			0.232	
			0.121	
			0.232	
NATTCDET LAKEHURST			0.006	
NAVSCSCOL ATHENS			0.006	
NAVNUPWRTRAU CHARLESTON			0.121	
FITCPAC SAN DIEGO			0.006	
NAVRESPRODEVCEN			0.121	
LTA SAN DIEGO			0.043	
CNATRA			0.043	
NAVCONSTRACEN DET SHEPPARD			0.006	
DENTAL SCHOOL			0.006	
NAVSCSCOLDET FT GORDON			0.043	
NAVSPECWARCEN			0.043	
NAVTECHTRACEN DET FT HUA			0.043	
			0.121	
			0.043	
			0.043	
			0.043	
FASOTRAGRUPAC			0.043	
TACTRAGRULANT			0.043	
TACTRAGRUPAC			0.043	
COMNAVAIRLANT			0.022	0.021
COMNAVAIRPAC				0.043
COMNAVSURFPAC				0.043
COMNAVSURFLANT				0.043
AFLOATRAGRU WESTPAC				0.121
COMSUBPAC				0.043
COMSUBLANT				0.043
				0.043
NAMIRAGRODET Corpus Christi NAVAIRSYSCOM Pax River				0.121
Schoolhouse Technology Upgrade				1.415
Corporate Host Backup				0.425
Regional Host Backups				0.534
STASS RTM Upgrade/Expansion				0.138
Replace Obsolete HP Servers				
LMTS			3.000	
Prior Year Legal		0.105		
TOTALS		1.989	5.154	<u>3.</u> 076

UNCLASSIFIED

P-40 FEB 1999 APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA7 Prior NUCLATURE/LINE ITEM # BLI: 8106 Command Support Equipment OTHER RELATED PROGRM ELEMENTS Program Element for Code B Items: OTHER RELATED PROGRM ELEMENTS Prior ID FY 1998 FY 1999 FY 2000 FY 2001 FY 2003 FY 2004 FY 2005 Complete Total QUANTITY I			BUDGE	FITEM JUSTIFIC	ATION SHE		DATE:								
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA7 Program Element for Code B Items: Prior ID Years Code FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 Complete Total QUANTITY COST SPARES COST (In Millions) SPARES COST (In MILL OF SPARE				P-40				FEB 1999							
OTHER PROCUREMENT, NAVY/BA7 BLI: 8106 Command Support Equipment Program Element for Code B Items: Prior ID FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 Complete Total QUANTITY I	APPROPRIATION/BUI	OGET ACTIV	ΊΤΥ					P-1 ITEM NO	DMENCLATUR	E/LINE ITEM	#		-		
BLI: 8106 Command Support Equipment Program Element for Code B Items: OTHER RELATED PROGRM ELEMENTS Prior ID FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 Complete Total QUANTITY Image: Code Image: Code Sector State Image: Code State Image: Code State Sector State Image: Code State Image: Code State Sector State Image: Code State Sector State Image: Code State Image: Cod	OTHER PROCURE	MENT, NA	VY/BA7												
Program Element for Code B Items: OTHER RELATED PROGRM ELEMENTS Prior Years ID Code FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 To Complete Total QUANTITY Image: Code Image: Code FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 Complete Total QUANTITY Image: Code Image: Code<								BLI: 8106 Command Support Equipment							
Prior Years ID Code FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 To Complete To tal QUANTITY Image: Complete	Program Element for (s:		OTHER RELATED PROGRM ELEMENTS											
YearsCodeFY 1998FY 1999FY 2000FY 2001FY 2002FY 2003FY 2004FY 2005CompleteTotalQUANTITYImage: Complete co		Prior	ID									То			
QUANTITY Image: second sec		Years	Code	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Complete	Total		
EQUIPMENT COST \$21.7 \$22.0 \$14.5 \$10.7 \$11.5 \$11.0 \$9.8 \$9.8 N/A (In Millions) SPARES COST Image: Cost of the second sec	QUANTITY														
(In Millions) N/A SPARES COST In Millions) (In Millions) In Millions)	EQUIPMENT COST			\$21.7	\$22.0	\$14.5	\$10.7	\$11.5	\$11.0	\$9.8	\$9.8				
SPARES COST (In Millions)	(In Millions)											N/A			
(In Millions)	SPARES COST														
	(In Millions)														

PROGRAM DESCRIPTION/JUSTIFICATION:

Naval Sea Systems Command (NAVSEA)

FY98 funding procures Advanced Technical Information System (ATIS), to be attached to ship local area networks to allow access to technical drawings/tech manuals and other CD ROMs. The funding will allow completion of 50 ships. The specific ships will be determined by Fleet priorities, but most likely will be tied to deploying battlegroup ships.

FY98 funding (\$2,413K) procures hardware (PCs/servers/printers/memory upgrades, etc) for the Standard Procurement System (SPS) which supports DOD procurement functions that include acquiring supplies and services and paperless acquisition.

FY99 funding for this line item provides ADP/IT Equipment and Software funding for the newly established consolidated Pearl Harbor Naval Shipyard/Intermediate Maintenance Facility. Funds will be used for the procurement and execution of ADP/IT equipment projects (hardware and software) to maintain, modernize, and improve the PHNSY/IMF infrastructure and industrial base. Funding will allow PHNSY/IMF to support the mission of repairing, conversion, and modernization of fleet ships and submarines in the most economical, efficient, environmentally sound, and safe manner possible. As this is a pilot program having impact on other fleet depot maintenance activities, it is critical these projects be funded in order to most accurately determine the economic and operational success or failure of the program itself.

FY00 and outyear funding provides support for the Regional Maintenance Automated Information System (RMAIS) Initiative. Specifically the funds will be used to procure computer hardware and software needed to connect existing Maintenance Automated Information Systems with established Local Area Networks (LANs) and Wide Area Networks (WANS) to facilitate the transfer of maintenance data. The per unit cost for this effort is \$100K per server, which includes hardware, software and installation.

Naval Computer and Telecommunications Command (NCTC)

Command Support Equipment for NCTC involves the purchase of various pieces of equipment, such as: reprographic equipment and security disintegrators. This program provides the systematic replacement of investment items required in support of the operational mission of the claimancy.

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ITEM NO.	193	PAGE NO.	1	

UNCLASSIFIED

		BU	DGET ITE	M JUSTIFIC	ATION SHE	ET				DATE:						
				P-40							FEB 1999					
APPROPRIATION/BUD	GET ACTIV	ΊTΥ						P-1 ITEM NOMENCLATURE/LINE ITEM #								
OTHER PROCURE	MENT, NA	VY/BA7	7													
								BLI: 8106 Command Support Equipment								
Program Element for C	s:				OTHER REL	ATED PROGR		6								
	Prior	ID										То				
	Years	Code	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Complete	Total			
QUANTITY																
EQUIPMENT COST				\$21.7	\$22.0	\$14.5	\$10.7	\$11.5	\$11.0	\$9.8	\$9.8					
(In Millions)												N/A				
SPARES COST																
(In Millions)																
DDAAD (11 DEAAD																

PROGRAM DESCRIPTION/JUSTIFICATION:

Chief of Naval Operations

Command Support Equipment Supports the U.S. Atlantic Command in performing its mission of commanding most continental U.S. combat forces. Various systems to be kept operational include those for Information Transfer, Information, Training, Analysis, Modeling and Simulation and Command/Control Computers/Communications Intelligence (C4I). It also supports the Naval Space Command, which budgets for satellite/ground/fleet interface equipment., and the Naval Central Command, which budgets for satellite/ground/fleet interface equipment.

Bureau of Naval Personnel

The Chief of Naval Personnel Claimancy is charged with the responsibility of providing the quantitative and qualitative manpower requirements of the United States Navy as determined by the Chief of Naval Operations. To accomplish this task, the Claimancy is concerned with the conception, development, execution, appraisal and management of plans and programs for the recruitment; distribution; accounting; utilization; morale, welfare, and recreation; religious programs; and discipline of the members of the Navy. Programs include: Navy Recruiting Command; Human Resource Management Support System; United States Navy Bands; Enlisted Personnel Management Center; and various other functions and activities. Funds requested provide necessary equipment for the Defense Message System, Memphis Local Area Network, Recruiting Tools - Twenty-first Century, and Personalized Recruiting for Immediate and Delayed Enlistment.

Department of the Navy, Information Network Program Office

The Department of the Navy, Information Network Program Office (DoNINPO) is a SECNAV directed program tasked to consolidate the disparate DoN HQ Local Area Networks (LANs) and resources within the Pentagon, interconnect the major Navy Wide Area Networks (WANs) in the National Capitol Region (NCR), and to facilitate the development of DoN Information Technology (IT) standards.

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				UNCLASSIFIED

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		BU	DGET ITE	M JUSTIFIC	ATION SHE	ET				DATE:						
				P-40							FEB 1999					
APPROPRIATION/BUD	OGET ACTIV	ΊΤΥ						P-1 ITEM NO	MENCLATUR	E/LINE ITEM	#					
OTHER PROCURE	MENT, NA	VY/BA7	7													
								BLI: 8106 Command Support Equipment								
Program Element for (Code B Item	s:				OTHER RELATED PROGRM ELEMENTS										
	Prior	ID										То				
	Years	Code	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Complete	Total			
QUANTITY																
EQUIPMENT COST				\$21.7	\$22.0	\$14.5	\$10.7	\$11.5	\$11.0	\$9.8	\$9.8					
(In Millions)												N/A	<u>. </u>			
SPARES COST													I			
(In Millions)																
DDOODAM DECOL			A TIONI													

PROGRAM DESCRIPTION/JUSTIFICATION:

Department of the Navy, Information Network Program Office (cont.)

Included in this effort are the architectures, technologies, standards, policies, and profiles necessary to provide or direct the acquisition and installation of the plethora of common information infrastructure tools and E-apps including those listed here as well as those emergent in the future to include: local area networks (LAN), remote and mobile network connectivity, palm-top and Personal Digital Assistant (PDA) technologies, wireless networking, wide area networks (WAN), network management, Edesktop applications, file standards, groupware applications, E-tools, E-data and repositories, telephony and telephone switching, cellular, Personal Communications Systems (PCs), television, desktop video teleconferencing technology (DT-VTC), low bit rate video (LBRV) and theater or conference room video teleconferencing technologies (VTC) used in support of connectivity and communications between Headquarters elements within the Washington region. In conjunction with the Defense Messaging System (DMS) architecture, an electronic mail system supporting both the X.400 and X.500 messaging protocols will be implemented on both the Classified and Unclassified LANs. Desktop and network hardware and software updates will be accomplished over a four year refresh cycle.

DoNINPO also supports the Electronic Acquisition-21 Program. This program was created to develop and implement the plan to move the Navy to a paperless environment by 1 January 2000. The Navy established a Program Executive Officer for Acquisition Related Business Systems (PEO ARBS) to oversee the functional and technical efforts required to provide the Navy Acquisition Workforce with effective and supportable business systems. The identification and development of most promising business processes and hardware/software alternatives is necessary to achieve the goal of a paperlss acquisition process.

		P-1 SHOPPIN	NG LIST		CLASSIFICATION:	
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	WEAPONS			Weapon Sy	stem	DATE:				000				
APPRO	PRIATION/BUDGET ACTIVITY	P-	5			ID Code	P-1 ITEM	NOMENCLA	TURE/SUB	HEAD		I	FEB 1999	
Other F	Procurement, Navy/BA-7													
	[]		TOTAL CO					BLI: 8106	Commar	d Suppor	t Equipme	nt		
			TOTAL CC		USANDS U	F DULLAR	5							
COST	ELEMENT OF COST	ID Code		FY 1998			FY 1999		FY 2000					
CODE		Coue	ΟΤΥ	UNIT	TOTAL	οτγ	UNIT	TOTAL	οτγ		TOTAL	οτγ	UNIT	TOTAL
		0400	- Crit		0001	Q.I.	0001	0001	- Carr		0001	- Carr	0001	0001
NAVSEA	Advanced Technical Info System	8106	49		1,954	50	40	2,000			0			
	Standard Procurement System (SPS)		500		2,413			0			0			
	Pearl Harbor ADP/IT Equipment and Software (Pearl Harbor Pilot)				0	659	2	1,570			0			
	Regional Maintenance AIS TOTAL NAVSEA				0 4,367			0 3,570	100	9.9	992 992			
NCTC	Command Support Equipment	8106			2,091			1,307			1,653			
BUPERS	Memphis Local Area Network Defense Message System Recruiting Tools - 21st Century Personal Recruitment Immed/Delay Enlist Mail Sorting Eqpt TOTAL BUPERS				5,340 500 0 0 300 6,140			0 350 0 0 3 50			317 0 300 481 0 1,098			
CNO	USACOM NAVSPACECOM NAVCENT TOTAL CNO				5,499 137 0 5,636			6,285 0 418 6,703			7,321 1,441 0 8,762			
AAUSN	EA-21 Electronic Commerce Commerce Online CPARS Electronic Mall/E-Catalog DONINPO TOTAL AAUSN				2587 914 3,501			997 550 620 7,936 10,103			1,966 0 1,966			
TOTAL					21 735			22.033			14 474			
DD FORM	1 2446, JUN 86		1	P-1 SHOP	PING LIST	<u>I</u>	<u> </u>	22,033		1	14,471	CLASSIFIC	ATION:	<u>I </u>
			ITEM NO	. 193		PAGE NO	. 4					UNCL	ASSIF	IED

		В	OTHER F UDGET ITE	PRC EM .	DCUREMEI JUSTIFICA	NT, TIC	NAVY ON SHEET			(DC	DD EXHIB	IT P	P-40)		
BUDGET ACTIVTY BA-7										P-1 BLI	ITEM NC : 8109 ME	DME EDIC	NCLATURE CAL SUPPOI	RTI	EQUIP
QUANTITY	FY 98		FY99		FY00		FY 01		FY02		FY 03		FY 04		FY 05
COST (in millions)	\$-	\$	2.5	\$	5.0	\$	7.8	\$	7.9	\$	9.4	\$	9.8	\$	9.6

This line provides funding for the Fleet Hospital Program whose mission is to provide comprehensive medical support to the Fleet and Fleet Marine Forces engaged in combat operations. Fleet Hospitals complement and expand the medical capabilities of the Fleet and play a critical role in the Navy's doctrinal concept of overseas theater support. Fleet Hospitals will deliver definitive health care (surgical or other acute) necessary to stabilize, treat, and rehabilitate (in-theater) wounded Sailors and Marines through relocatable, prepositioned, modular, rapidly erectable medical and surgical facilities accommodating 500 beds.

This line item also provides deployable medical support equipment to CINCLANTFLT for the USNS Comfort hospital ship and to CINCPACFLT for the USNS Mercy. These ships are deployed in the combat theater to treat wounded sailors and marines.

P-1 SHOPP. LIST	PAGE NO.	UNCLASSIFIED
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Classification: Unclassified	lustification	for Aggreg	ated Items	e								Echruchy 00
							т					(In Millione)
OTHER TROCOREMENT,							PY		CY		BY1	
Procurement Items \ Quantity	Code						FY 1998	F	TY 1999	F	Y 2000	
The area in the second se	Couc						111000		1 1000		1 2000	
COMP RAD (C-R) WORKSTATION (2)	A							\$	1.263	\$	-	
C-ARM (2)	А							\$	-	\$	0.442	
ENDOSCOPIC SYSTEM (1)	А							\$	-	\$	-	
X-RAY ROOM W/TOMOGRAPHY (1)	А							\$	-	\$	-	
NON-STEAM STERILIZER (1)	А							\$	-	\$	-	
TOTAL PACFLT							0.000	\$	1.263	\$	0.442	
Comp BAD (C r) Workstation	8100							¢	1 262	¢		
C ADM	8109							¢ ¢	1.203	ф Ф	- 0.442	
C-ARM Endesconio System	8109							ф Ф	-	ф Ф	0.442	
X Roy Room W/Tomography	8109							¢ ¢	-	ф Ф	-	
A-Ray Room W/Tomography	8109							¢ ¢	-	ф Ф	-	
TMID Hardware	8109							¢ ¢	-	ф Ф	-	
	8109						0.000	ф ф	4 269	ф ф		
							0.000	Þ	1.200	Ð	0.442	
Tractor 25 Ton	8109									\$	\$1,478	
Laundry	8109										\$250	
Fire Truck	8109										\$92	
TRK, Wrecker	8109										\$570	
Ambulance	8109										\$373	
Bus Ambulance	8109										\$344	
Pickup - 6 Passenger	8109										\$583	
TRK, Stake 15 Ton	8109										\$88	
TRK, Fuel and Lube	8109										\$0	
TRK, Util/Maint	8109										\$0	
TRK, Septic, Clean	8109										\$0	
RTCH	8109										\$371	
TOTAL BUMED												
									0	\$	\$4,149	
TOTAL MEDICAL SUPPORT EG	QUIPMENT						\$-	\$	2.526	\$	5.033	
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						(DOD EXHIB	IT P-40)				
		OTHER BUDGET IT	PROCUREME EM JUSTIFIC	ENT, NAVY ATION SHEET							
BUDGET ACTIVTY 07 - Personnel and Comman	id Support Equipn	nent		P-1 ITEM NOMENCLATURE Operating Forces Support Equipment BLI: 8118							
QUANTITY	FY 98	FY 99	FY00	FY01	FY02	FY03	FY04	FY05			
COST (in millions)	\$10.2	\$6.2	\$5.8	\$4.4	\$4.4	\$4.4	\$4.4	\$4.5			
This category includes fundi LANTFLT: (a) Information T computers, ancillary equipm for warfare and Battle Group upgrades and emergency g floats, and fenders (submari PACFLT: Firetrucks, Gener Systems, and Central Dispar	ng for Technology System ent, software, and o commanders (CO enerators; and (o ne, Arleigh Burke rators, Security Ca tch Systems.	ns of automated fir I support services; OMNAVBASE Nort c) Waterfront Eq Class, and Yokoha ameras, Security M	nancial equipm an automated folk); (b) Gen juipment which ama). fotion Detector	ent (FMIS); other i warfare system (F eral Purpose Equip includes camels (rs, High Presure W	information tech TWC); and comr oment which end carrier, Trident, /ashers, Ship to	nology system nunications an compasses tele wooden, and o Shore Convey	s inclusive of ad connectivity L/ ephone system deep draft), paint vors, Access Cor	AN : htrol			

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CLASSIFICATION

APPROPRI	ATION	PROG	RAM COS		(DOD Exhibit P-5)						
OTHER PRO	OCUREMENT, NAVY										
BUDGET AG	CTIVITY	P-1 IT	EM NOMEN	ICLATURE			SUBHE	AD NO.			
07 - Personi	nel and Command Support Equipment	Opera	Operating Forces Support Equipment								
			TOTAL C								
				FY 1998		FY 1999		FY 2000			
COST		IDENT		TOTAL		IOTAL		TOTAL			
CODE	ELEMENT OF COST	CODE	QTY	COST	QIY	COST	QIY	COST			
	IDS System	Δ					1	0.496			
	Security Communications System	Δ					1	0.430			
	Fire Truck	A					1	0.209			
	Emergency Generator	A					1	0.104			
	Ship to Shore Conveyor	А		0.500							
	Access Control System			0.668							
	Ultra High Pressure Washers			1.800							
	Central Dispatch System			0.352							
	TOTAL (PACFLT)			3.320		-		0.925			
	General Power Sources	8118		0 487		0 353					
	Waterfront	8118		2.853		2.515		2.030			
	IT	8118		3.575		1.791		2.893			
	NOC Capital Equipment										
	Reverse Osmosis Desalination Gear					1.500					
	TOTAL (LANTFLT)			6.915		6.159		4.923			
	TOTAL OPERATING FORCES SUPPORT	EQUIPMEN		10.235		6.159		5.848			

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	BUDGET IT	EM JUST	IFICATIO	ON SHEE	Т				DATE:			
	P-40								FE	BRUARY 1	999	
APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM NOMENCLATURE/LINE ITEM #						
OTHER PROCUREMENT, NAVY						OCEANOGRAPHIC SUPPORT EQUIPMENT LI:8126			LI:8126			
BA-7 PERSONNEL & COMMAND SUPPORT EQUIPMENT												
Program Element for Code B	Program Element for Code B Items:					OTHER RELATED PROGRAM ELEMENTS						
Pric	or ID									То		
Yea	rs Code	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Complete	Total	
QUANTITY		N/A	N/A	N/A								
EQUIPMENT COST												
(In Millions)		\$20.9	\$16.6	\$18.4	\$22.5	\$27.6	\$23.7	\$24.2	\$24.7		\$178.6	
SPARES COST												
(In Millions)												

PROGRAM DESCRIPTION/JUSTIFICATION:

The Oceanographic Support Equipment line provides funding for equipment to support a large inventory of oceanographic, hydrographic, geodetic, meteorological and astronomical equipment, systems and instrumentation. This equipment is required by the Naval Meteorology and Oceanography Command and the U.S. Naval Observatory to collect, process, analyze and disseminate environmental data to operating forces, DoD and other agency users. This data is critical for precise positioning, navigation and targeting of friendly and enemy air, surface, and sub-surface weapons systems and space vehicles.

Funding within this lineitem supports the performance of Naval meteorological and oceanographic mission functions including eight ships operated by the Military Sealift Command, Meteorology and Oceanography centers, facilities, and detachments at locations worldwide. It also supports the Naval Observatory mission.

A major portion of our equipment inventory is dedicated to our survey mission and is deployed at sea. Most equipment includes sensitive instruments and contains sophisticated electronics that have a short service life in a harsh marine environment (salt spray, humidity, shock, vibration, corrosion). Cyclical replacement of related instruments is a large part of our equipment acquisition program. A significant part of our program contains the high speed computers and communications network required to run the complex geophysical models that predict the state of the atmosphere and oceans. Additionally, the Naval Observatory's astronomical equipment is a diverse and highly specialized suite of instrumentation supporting all DoD and U.S. Time and Positioning requirements.

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BUDGET ITEM JUSTIFICATION SHEET	DATE:			
P-40 CONTINUATION	FEBRUARY 1999			
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE/LINE ITEM #			
OTHER PROCUREMENT, NAVY	OCEANOGRAPHIC SUPPORT EQUIPMENT LI:8126			
BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT				
U.S. NAVAL OBSERVAT	ORY			
The Naval Observatory, Washington, DC, provides the astronomical and timing data required by t agencies and the general public. Precise time and astronomical data are essential for command, positioning; and targeting of tactical and strategic weapons systems.	he Navy, the Department of Defense, other government control and communications; navigation and precise			
Mark IV VLBI CORRELATOR				
Very Long Base Interferometer (VLBI) provides the most accurate means of determining astronomical time and the celestial reference frame. These data are required for GPS operations. Precision of GPS navigation is directly related to the accuracy of estimates of astronomical time. VLBI uses complex RF, IF, recording, playback and correlator systems. The present correlator has been in use since 1980 and has reached the end of its operational lifetime.				
VLBI SUBSYSTEM				
VLBI provides the most accurate means of determining astronomical time and the celestial referer program in Earth orientation in operation. These are data acquisition systems (receivers, digitizing needed at the three observation sites in Kokee Park, Hawaii; Fairbanks, Alaska; and Green Bank,	nce frame. Subsystems are needed to keep the VLBI g and recording systems) and hydrogen maser clocks West Virginia.			
1.3M CHARGED COUPLED DEVICE ARRAY				
Procurement of this array is to enable the 1.3M astrometric telescope to track Earth satellites and readout capability in order to achieve this.	space debris. This array must have a state-of-the-art			
	CLASSIFICATION:			

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET	DATE:
P- 40 CONTINUATION	FEBRUARY 1999
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE/LINE ITEM #
	OCEANOGRAPHIC SUPPORT EQUIPMENT LI:8126
BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT	
<u>METROLOGY/DELAY LINES & SIDEROSTATS</u> The optical interferometer is coming on-line to drastically improve observation of star positions a autonomous modern navigation and guidance systems. The interferometer will establish a stella The interferometer consists of four separate siderostats. The siderostats are interconnected with together with an accuracy greater than 1 millionth of a meter. The optical interferometer has a m extensive metrology in the central building. The delay lines condition the light from each of the fe aperture. This aperture will precisely measure the positions of stars by time difference of arrival positions are needed for the guidance and pointing of military and surveillance platforms.	and stellar inertial reference frame which is needed by all ar optical reference frame to an accuracy of 10 milliarcseconds. In a highly sophisticated meteorology system which ties them hetrology system attached to all four siderostats as well as pour siderostats to coherently combine it to form a synthetic to an accuracy of a milliarcsecond. These accurate star
INDIUM ANTIMONIDE ARRAY DETECTORS. These array detectors with sensitivities between 1 and 5 micron wavelengths are needed to astro	nomically map the celestial background emission. The
TIME TRANSFER RECEIVER	seekers.
These receivers are needed to monitor the time on the GPS code signal. They are to be multi-ch Washington, D.C. and Falcon, AFB. This information is needed to maintain time on the GPS sate between the Observatory and the Air Force.	annel in order to monitor all satellites above the horizon at ellites in accord with an Interface Control Document
	CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET	DATE:					
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APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE/LINE ITEM #					
	OCEANOGRAPHIC SUPPORT EQUIPMENT LI:8126					
BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT						
MARK IV UPGRADE This procurement will upgrade the VLBI Data Acquisition System to Mark IV capability. These capabilities will replace the data acquisition hardware at the VLBI station at Kauai (Hawaii) and Green Bank (West Virginia) currently equipped with Mark IIIA or VLBA style systems. This is also essential to maintain compatibility with other VLBI stations in the global network, some of which have already made the upgrade.						
CESIUM SYSTEM The Master Clock consists of over 10 hydrogen masers, 45 cesium standards and associated electronics, computer and communications systems to establish the time scale. Additional maser and cesium atomic clock standards must be procured to replace those that have reached the end of their useable ten-year lifetime. The hydrogen maser atomic clocks are very precise in short-term stability and are utilized in conjunction with cesium beam atomic clocks that provide long-term stability to ensure the accuracy of the Navy/DOD/National Master Clock System. The components of the clock must be replaced as they age to maintain the accuracy of the timescale. This system must continue to provide a timescale stable to 12 billionths of a second for GPS operations. Smart weapons, long-range Cruise missiles and weapons delivery platforms need near-perfect positioning and precise time (nanoseconds) information. Lack of replacement of the hydrogen maser and cesium standards will degrade the accuracy of the Maser Clock, leading to the possibility of failing to meet the requirements for accurate time for precise targeting systems and degraded security for secure communication systems. The Observatory will not be able to meet its mission of providing time to GPS and other DOD users who need accurate time without the Master Clock Replacement						
OPTICAL INTERFEROMETER SUBSYSTEM						
These subsystems are necessary to bring the optical interferometer into full operation. Subsystems inc the beam size and fast steering mirror systems to compensate for the atmosphere. These observations of the celestial reference frame for guidance systems.	clude mirror systems for conditioning and reducing s are necessary for the maintenance of the accuracy					
OPTICAL INTERFEROMETER (INFRARED) The optical interferometer must operate at Infrared wavelengths in order to obtain complete information objects at optical wavelengths. This will allow the interferometer to operate at wavelengths of 1-5 micro frame for the precise determination of satellite positions and space debris. It can also be used for guida	regarding the astrometric precision of celestial ons. This capability is needed to establish a reference ance systems with Infrared Sensors.					

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BUDGET ITEM JUSTIFICATION SHEET	DATE:
P-40 CONTINUATION	FEBRUARY 1999
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE/LINE ITEM #
OTHER PROCUREMENT, NAVY	OCEANOGRAPHIC SUPPORT EQUIPMENT LI:8126
BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT	
BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT ILEET NUMERICAL METEOROLOGY AND OCEANO Rete Numerical Meteorology and Oceanography Center (FNMOC), Monterey, CA provides ress (METOC) guidance and information to Navy and other Department of Defense activities worldw of platforms, weapons, sensors and facilities. METOC support to the operating forces is provid commands (four USN sites located in Fleet concentration areas, and Air Force Global Weather connectivity and through DoD circuits. Additionally, thousands of DoD PC users receive their in mathematical techniques on high-performance computers. Analyses are used to predict the st a few hours to a week. These analyses and predictions are used as the basis of specific, fleet- sensors. DD's role of "global presence" has stressed the current super computer architecture beyond it critical functions will be addressed through the use of additional processors and disk storage de to client/server architecture of the worldwide distribution system. Greater emphasis on prepara littoral threat has resulted in a greatly increased demand for high resolution, coupled model me oceanographic support to tactical coastal operations. The capability to produce and distributer proved atmospheric model output will be available for regional centers to initialize locally-run available to ships to run local area analysis and short duration forecasts. This upgrade will pro oceanographic forecasts at longer ranges as a result of sharper data focus, improvements in pl including a coupled atmosphere/wave model. It will also provide improved operational data me variational data assimilation.	SRAPHY CENTER ponsive quality meteorological and oceanographic vide to increase safety of forces and to optimize the use ed principally through five geographically dispersed Center which supports USAF and USA) via direct product support directly from FNMOC using advanced ate of atmosphere and oceans for periods ranging from related products for platforms, weapon systems and s capacity to provide adequate support. Mission evices. Customer service will be improved via upgrades tion for and reaction to regional conflicts and the teorological guidance and forecasts, as well as orducts to users will be significantly improved as well. mesoscale models. Higher resolution nests will be vide FNMOC customers with better atmospheric and hysics and increase in the resolution of the models, nagement and implementation of 3-dimensional

CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET	DATE:	E:
P-40		FEBRUARY 1999
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	E/LINE ITEM #
OTHER PROCUREMENT, NAVY	OCEANOGRAPHY SUP	JPPORT EQUIPMENT LI:8126
BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT		

NAVAL OCEANOGRAPHIC OFFICE

The Naval Oceanographic Office, Stennis Space Center, MS collects processes, analyzes and provides oceanographic, hydrographic and geophysical data worldwide to meet requirements for precise bathymetric, gravity, magnetic and environmental measurements. This data is critical for navigation, positioning and alignment, and targeting of both tactical and strategic subsurface, surface, air and space vehicles, and weapons systems. The office is supported by eight ocean survey ships and one dedicated project aircraft.

AIRCRAFT DATA ACQUISITION SYSTEM

This lineitem is for portable data acquisition and processing systems for use on either Fleet aircraft Fleet aircraft or dedicated aircraft (Naval Research Laboratory (NRL). The systems will have the capability to collect/process physical oceanographic (temperature, conductivity, and sound speed versus depth) and acoustic data (ambient noise, bottom reverberation and tranmission loss). The data will be collected via expendable sensors (physical oceanography (AXBT, ACTD, AXSV) and Acoustics (sonobuoys). One of the systems will be UNIX-based and be derived from AIRDALE technology. A significant portion of its mission will include in-house processing and training for NAVOCEANO personnel. The other systems shall utilize a PC-based technology. All the systems will provide field personnel with data to prepare near real time briefings to support Fleet exercises such as SHAREM and Rapid Response.

ALTIMETRY DATA FUSION CENTER

NAVOCEANO'S Altimetry Data Fusion Center (ADFC) is the DoD processing center for all military, civilian, and foreign altimetry data streams (USN GEOSAT Follow-On, NASA Topex, European Space Agency ERS-2) as mandated by CNO OCEN 90-02. Altimetry is an essential input to modeling and determining ocean currents as required by LITT OCEN 93-01 (Improved Mine Drift Predictions), LITT OCEN 93-06 (High Resolution Surface/Subsurface Current Predictions), and CINC OCEN 91-06 (Ocean Prediction Models). Two additional data streams will become operational in the FY00 timeframe, namely NASA's JASON and the European Space Agency's ENVISAT. These systems will dramatically improve the Navy's capability to meet the above requirements through improved ocean circulation modeling, but will also dramatically increase the data volume and processing load on the ADFC. In addition, by FY00 much of the ADFC hardware will be 5 to 7 years old. This acquisition is for hardware replacements and upgrades to the baseline ADFC system.

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AUTONOMOUS UNDERWATER VEHICLE/ RECOVERY SYSTEM	

The Autonomous Underwater Vehicle (AUV) technology has reached a point where it is now a cost effective means for environmental data collection. Examples of this data include: Q-Route data to assist in the identification and neutralization of mine threats, identification of navigational hazards for nautical charts, and bottom composition and current data which directly impacts amphibious and SPECWAR operations. The importance of this system is that NAVOCEANO and government contracted organizations required the assurance of recovery of AUVs. The cost of the large AUV requires this recovery system as assurance of safe and efficient operations.

CENTRAL DATA BASE SERVER

NAVOCEANO scientific data are stored within the Data Warehouse (DW) in standardized formats. The DW, using a distributed client-server architecture, is used to manage the 600 plus gigabytes of on-line storage needed to provide responsive access to users that include DoD and non-DoD agencies. The existing DW servers and mass storage are at the end of their life cycle and are constrained in the number of data request transactions that may be simultaneously processed, as well as the quar of data that may be stored and managed.

SURVEY WORKSTATIONS/MASS STORAGE

Workstations aboard NAVOCEANO survey platforms are presently used to quality control data as it is acquired to ensure its validity and content. This process allows technical specialists to quickly identify problems associated with the collection sensors so that immediate corrective actions may be taken. Using this approach, NAVOCEANO maximizes ship collection time while assuring that all survey expenditures result in valid, useful data. Present workstations and associated mass storage are at the end of their life cycle and are inadequate to process the greater volumes of data generated by the current generation of collection sensors coming on-line. In addition, NAVOCEANO is re-engineering the data processing function such that the final quality control steps are performed at sea vice the current process in which the final quality control is performed at Stennis Space Center. This approach will push activities associated with the final data quality control closer to the collection point resulting in a higher quality product. Further, by more fully utilizing the technical specialists at sea, NAVOCEANO will be able to more quickly make the data available for the office wide product lines.

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ATM CAPABILITY/LAN UPGRADE

This effort is to equip the current classified and unclassified Local Area Network (LAN) Ethernet hardware with microprocessor controlled LAN and cell switching units. In addition, fiber optic cable will replace existing Ethernet coaxial cable through the network. The topology upgrade will provide NAVOCEANO's classified and unclassified networks with a minimum capacity of 155 Mbs backbone and switched 10 Mbs Ethernet to the desktop. Selected workstations will have 100 Mbs Ethernet, 100 Mbs FDDI, or 155 Mbs ATM interfaces. This will provide a hardware topology that supports existing bandwidth demands, and scalability to support high-speed data requirements. The new NAVOCEANO network topology will immediately support higher speed information transfer, data will be analyzed faster, and imagery will be delivered to the warfighter closer to real-time. After completion, the NAVOCEANO network will be seamlessly interoperable with all external ATM network connections.

INTEGRATED DRIFTING BUOYS

The Integrated Drifting Buoy Program supports Fleet activities ashore and afloat with near real-time environmental data. The buoys are deployed in Navy operational areas and disseminate oceanographic, acoustic, and meteorological data to operational commands in the area, through various real-time means. These near real-time data are used for severe weather forecasting and typhoon warning, ground truthing satellite-derived multi-channel sea surface temperature extraction, refining the fronts and eddies bogus, and initializing the Modular Ocean Data Assimilation System. Procurement has been centrally managed through Naval Air Warfare Center, Indianapolis. This will ensure a smooth transition of the WSQ (SAN-1 through 6) series drifting buoy into the Fleet supply system. This transition to central management necessitated a change in funding and these funds were transferred from NAVOCEANO's O&M,N allotment accordingly.

KLEIN 5000 TOWFISH/TOPSIDER

NAVOCEANO currently collects high speed side scan imagery data in support of Q-Route and Mine Warfare (MIW) requirements. Requirements for this type of data have been increasing and NAVOCEANO has only a single system of this type in the inventory. This significantly limits the ability to collect high resolution data in more than one operational area, or to have an installed backup capability on another platform. A spare towbody is needed to serve as a backup.

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OPTICS MEASUREMENT ARRAY

Validated Fleet requirements task NAVOCEANO to provide optics support to warfare areas including Mine, Special, and Undersea Operations. This information is vital to the Navy's ability to operate undetected and to locate/identify threats based on non-acoustic methods. The function of the Optics Measurement Array is to acquire core data for IDBMS to apply such Fleet products as STOIC and STORM and to support in-house requirements such as the Laser Airborne Bathymetry System (LABS). This sensor system measures optical properties of the water column over various temporal an spatial scales so that the impact of the optical environment on a number of issues pertinent to the warfighter can be comprehensively characterized.

DTC/GFMPL SYSTEMS

NAVOCEANO is tasked to provide deployed on-scene environmental prediction systems to the Fleet. These high visibility systems are developed to provide a local resource to predict the effects of the environment on Fleet platforms, sensors, and systems. NAVOCEANO must maintain currency with the Navy's Tactical Advanced Computer (TAC-n) family which includes the base line TAC-n processor with standard 3-D display subsystems (or "g3" subsystems as described by TAC-3 and TAC-4). Acquisition of a high-end TAC-n visualization system (i.e. "g4" for TAC-4) which will allow NAVOCEANO to develop advanced visualization capabilities for deployment on Fleet assets.

GFMPL HARDWARE UPGRADE

NAVOCEANO is tasked to provide deployed on-scene environmental prediction systems to the Fleet. These high visibility systems are developed to provide a local resource to predict the effect of the environment on Fleet platforms, sensors, and systems. The Tactical Environmental Prediction System (TESS) is a bundled hardware/software package, while the Geophysical Fleet Mission Program Library (GFMPL) essentially consists of the TESS software configured to be run on the Fleet users' own computer resources. This equipment will allow TESS (3) software to be rehosted for subsequent distribution to the Fleet for use on their systems.

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ISS-60 T-AGS 51/52

ISS-60 was developed for the T-AGS 60 class ships to allow them to collect and monitor a broad spectrum of oceanographic data both on station and underway. While performing data collection tasks, the ship's position will be continuously determined by an integrated navigation system using all available navigation sources. The underway data collected will include swath an single beam bathymetry, imagery, gravity, magnetic field intensity, sea-surface expendable probes. Periodically the ship will switch to an on-station mode of operation where the ISS-60 will provide e4nvironmental and navigation information to systems such as Conductivity/Temperature/Depth sensors. The ISS-60 consists of collection (navigation, real-time, echo sounding system) security, diagnostic, archiving, processing and communication capabilities. The system's distributed design provides a separate computer for Inertial Navigation System and environmental data acquisition and distributes the processing and archiving requirements for four computers. The design will provide NAVOCEANO with the maximum opportunity for standardization and flexibility.

ISS-60/SYSTEM INTEGRATION LAB UPGRADE

The ISS-60 systems integration laboratory upgrade will greatly improve the training, integration, and testing facility in support of the T-AGS 51 class, T-AGS 60 class and Hydrographic Survey Launch (HSL) deployed acquisition systems. Incorporating this increased capability into NAVOCEANO's ISS-60 configuration, making it a better training facility to prepare ship riders.

METEOROLOGY PHASE II UPGRADE

The Meteorological (MET) Phase II Upgrade will provide upgrades to existing NSDS-G computers at NAVPACMETOCCEN Pearl Harbor, NAVEURMETOCCEN Rota, NAVLANTMETOCCEN Norfolk. These upgrades will provide faster and more accurate environmental forecasting for each site. The upgrades will also provide faster and more accurate environmental forecasting for each site. These upgrades will also provide faster and more accurate environmental forecasting for each site. These upgrades will replace aging (1990) computers with state-of-the-art Sun Ultra computers.

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MWF GRAPHICS/ANALYSIS COMPUTER SYSTEM

The Mine Warfare Graphics/Analysis Computer System will be used to produce Mine Warfare Pilots (MWPs) and Special Tactical Oceanographic Information Charts (STOICs) in-house for Commander, Mine Warfare Command in support of both contingency planning exercises. MWPs are now produced digitally and there is a need for a digital STOIC. All current data provided for the hard-copy STOIC are produced digitally. A replacement computer system is required to upgrade the present graphic, digitizing and scanning capability. The replacement systems would also be used for oceanographic analysis using NIDAS software, other IDBMS data base analysis, and for acoustic prediction modeling and analysis. Additional local storage space is required for the large working files. NAVOCEANO has lost a substantial amount of inhouse production capability, particularly digitizing, and large format scanning. Other SUN and SGI workstations are no longer supported by the manufacturer.

GEODETIC GPS - T-AGS 51

A geodetic capability is required aboard each ship that deploys Hydrographic Survey Launches (HSLs) in order to establish the location of Differential Global Positioning Systems (DGPS) reference stations and tidal measurement benchmarks. In addition, this system is used for calibration of swath systems and benchmarks as well as calibration of swath systems and the location of aids to navigation. The new systems are in full compliance with the location of aids to navigation. The new systems are in full compliance with DoD GPS regulations an capable of negating the effects of Selective Denial when keyed. The present systems in inventory do not comply with DoD regulations and are over 7 years old and technically out-of-date.

GEODETIC GPS - T-AGS 52

A geodetic capability is required aboard each ship that deploys Hydrographic Survey Launches (HSLs) in order to establish the location of Differential Global Positioning Systems (DGPS) reference stations and tidal measurement benchmarks. In addition, this system is used for calibration of swath systems and benchmarks as well as calibration of swath systems and the location of aids to navigation. The new systems are in full compliance with the location of aids to navigation. The new systems are in full compliance with DoD GPS regulations an capable of negating the effects of Selective Denial when keyed. The present systems in inventory do not comply with DoD regulations and are over 7 years old and technically out-of-date.

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SATELLITE PROCESSING UPGRADE

NAVOCEANO is the National Center of Expertise for the production of multi-channel sea surface temperatures (MCSSTs). MCSSTs are produced from NOAA's Polar Orbiting Environmental Satellites using the Satellite Processing System (SPS). Recent improvements to NOAA's Geostationary Orbiting Environmental Satellites (GOE make it possible for the first time to produce MCSSTs from the GOES data stream. These GOES MCSSTs will dramatically improve the coverage, resolution, timeliness and accuracy of sea surface temperatures. Ingest and processing of the GOES data stream will require acquisition of GOES antenna/receiver equipment. Production automation and data storage will require an integrated computer system upgrade for the current SPS. Sea surface temperatures are a critical element of information for (1) support of DoD personnel exposed to in-water activity (e.g. SEALs), (2) acoustic prediction in support of ASW, and (3) input to numerical circulation models providing ocean currents affecting mine countermeasures an amphibious operations. NAVOCEANO production of MCSSTs is required by the Joint Navy/Air Force/NOAA Shared Processing Memorandum of Agreement. Production of MCSSTs supports a number of validated requirements including USMC-OCEN 93-01 (Littoral Sea Environment), LITT OCEN 93-01 (Improved Mine Drift Predictions), LITT OCEN 93-06 (High Resolution Surface/Subsurface Current Predictions), and CINC OCEN 91-06 (Ocean Prediction Models).

SEAMAP TOWFISH UPGRADE

This upgrade to the SEAMAP system will allow survey requirements to be met without interruption. Fleet requirements for seafloor bathymetric and acoustic backscatter maps, and quantitative backscatter measurements for SWASI, Mine Warfare, and Route Survey data collection can be accomplished.

TOWED BIO-ASSAYER SYSTEM

This roll-on/roll-off (ro/ro) Towed Bio-Assayer System provides a complete volume reverberation data collection system including bottom-backscatter data. The data will support the Oceanographic and Atmospheric Master Library (OAML) and OAML data bases. Without the Towed Bio-Assayer System, NAVOCEANO would not be able to collect volume-scattering data needed for the OAML data bases.

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TRANSMISSION LOSS/BOTTOM LOSS SYSTEM UPGRADE

This acquisition will provide for the complete upgrade and replacement of the existing Transmission Loss/Bottom Loss (TL/BL) Measurement Systems. The primary purpose of this acquisition is to provide life cycle replacement of aging and obsolete equipment. The goal is to maintain a minimum capability of three field systems in order to meet our survey requirements. The goal is to maintain a minimum capability of three field systems will be available for use on all NAVOCEANO surface platforms for the collection of acoustic data received/transmitted by sonobuoys. The data collected by this system supports the Oceanographic and Atmospheric Master Library (OAML), provides acoustic properties of the water column in high priority areas of interest to the Fleet, and supports acoustic model validation.

CTD ACQUISITION & PROCESSING SYSTEM CALIBRATION UPGRADE

The existing inventory of CTD sensors consists primarily of underwater units and deck units. Due to problems associated with design and quality control there have been complaints about performance and reliability. NAVOCEANO is working directly with the manufacturer to resolve these issues at this time. However, it is imperative that NAVOCEANO has a plan in place in the event that the problems with the current systems cannot be resolved. The CTD is one of the primary sensor systems used in the NOLS program throughout the research community. This CTD system will be evaluated "in-house" and at sea as a potential replacement for the system.

DIGITAL SIDE SCAN T-AGS 51/52

The collection and analysis of side scan sonar data is used to determine shoal depth between survey lines. This acquisition will enable the digital recording and archiving of side scan data to facilitate its use in sonar mosaics to better "see" the entire area. It incorporates the display onto video monitor and allows fast, accurate and simple target marking/identification. This computerized approach will dramatically improve production time of side scan data analysis. Additionally, the acquisition of digital technology will expand the system dynamic range and enable the use of NAVOCEANO in-house digital signal and image processing techniques to extract detailed information from the data. These data are used to populate imagery data bases and various Mapping, Charting, and Geodesy products.

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DIGITAL SIDE SCAN WITH CHIRP 915

The collection and analysis of side scan sonar data is used to determine shoal depth between survey lines. This acquisition will enable the digital recording and archiving of side scan data to facilitate its use in sonar mosaics to better "see" the entire area. It incorporates the display onto video monitor and allows fast, accurate and simple target marking/identification. This computerized approach will dramatically improve production time of side scan data analysis. Additionally, the acquisition of digital technology will expand the system dynamic range and enable the use of NAVOCEANO in-house digital signal and image processing techniques to extract detailed information from the data. These data are used to populate imagery data bases and various Mapping, Charting, and Geodesy products.

DIGITAL SIDE SCAN WITH CHIRP - T-AGS 63

NAVOCEANO does not currently have side scan sonar capability aboard T-AGS 63. It is anticipated that these vessels will be fitted with Hydrographic Survey Launches (HSLs) at some point. Side scan sonar capability is required to effectively meet DMA hydrographic and Mine Warfare (MIW) data requirements. T-AGS 63 and later HSLs will be outfitted with these systems, which will provide the capability to (1) digitally archive raw side-scan data to be used in populating sea floor trackline databases, (2) precisely geo-referenceside scan sonar scan-line data for accurate target location and identification, and (3) monitor real-time data collection using a video display with optional and concurrent hardcopy output. Current systems collect analog data only and are limited to hardcopy archiving. This is a significant operational and processing limitation, supporting only marginal data analysis and subsequent product development.

EM1000 MULTIBEAM SYSTEM-PATHFINDER/SUMNER

Increased littoral survey requirements require use of higher shallow water multibeam systems. These ships are only equipped with 12 KHz full ocean depth multibeam systems which do not provide sufficient data resolution at depths more shallow than 300m. Without this system the ships cannot perform bathymetric surveys in depths less than 300m which is not sufficient for mapping and charting.

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OTHER PROCUREMENT, NAVY	OCEANOGRAPHIC SUPPORT EQUIPMENT LI:8126
BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT	
EM1000 MULTIBEAM UPGRADE - T-AGS 51 T-AGS 51 is currently equipped with an EM100 Shallow Water Multibeam. This system is no longer in replacements part availability and long lead time logistics support. This EM100 multibeam has been in u Without the EM1000 system, the ability of the ship to conduct multibeam surveys will degrade as equip EM1000 MULTIBEAM UPGRADE - T-AGS 52 T-AGS 51 is currently equipped with an EM100 Shallow Water Multibeam. This system is no longer in replacements part availability and long lead time logistics support. This EM100 multibeam has been in u	production and is expensive to maintain, especially with regard to use for approximately 10 years and required life cycle replacement. ment becomes unsupportable. production and is expensive to maintain, especially with regard to use for approximately 10 years and required life cycle replacement.
Without the EM1000 system, the ability of the ship to conduct multibeam surveys will degrade as equip <u>GEODETIC GLOBAL POSITIONING SYSTEM - TAGS 64</u>	ment becomes unsupportable.
systems replace older versions that become obsolete in CY97. DGPS Reference Stations and landrr capability. Set up time can be reduced by 90 to 95%. Since JPO will be eliminating non-military ar systems will be immediately degraded. This affects NAVOCEANO since we use untended receivers ar	ographic accuracy specified on hydrographic charts. These new narks can be rapidly positioned if the DGPS includes a geodetic ccess to the L2 frequency on GPS satellites, accuracy of civilian nd currently employ civilian systems.

CLASSIFICATION:

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET	DATE:	
P-40 CONTINUATION	FEBRUARY 1999	
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE/LINE ITEM #	
OTHER PROCUREMENT, NAVY	OCEANOGRAPHIC SUPPORT EQUIPMEN	LI:8126 آل
BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT		
HSL T-AGS 63 The procurement and outfitting of a shore-based Hydrographic Survey Launch (HSL) provides NAVOC HSLs that will be deployed on T-AGS 60 class ships. This platform will be used for at-sea testing of sur provide NAVOCEANO the capability to provide its survey personnel with comprehensive hydrographic NAVOCEANO's operating tools will increase the effectiveness of hydrographic survey efforts by provide improved personnel training in the local commuting area.	EANO with a local system integration platform that is ide vey system installation or upgrade. The shore-basedHSL training prior to field assignment. Incorporating this capa ding the ability to perform integration and engineering te	ntical to t . will also bility into sting and
HIGH SPEED DIGITAL SIDE SCAN SONAR-T-AGS 62		
NAVOCEANO currently collects high speed side scan imagery data in support of Q-Routes and Mine have been increasing and NAVOCEANO has only a single system of this type in the inventory. This s than one operational area, or to have an installed backup capability on another platform. Without the ac 62, our ability to collect this data will remain very limited.	e Warfare (MW) requirements. Requirements for this typ ignificantly limits the ability to collect high resolution data ddition of this high speed digital side scan sonar system t	e of data a in more o T-AGS
HSL T-AGS 62		
The Hydrographic Survey Launch (HSL) is required to accomplish procurement and retrofit of H. Oceanography Policy Statement to incorporate near-shore hydrographic capability into all ships. NA imagery data in littoral areas. Presently the near-shore data (less than 50 meters) is collected from HS	SLs aboard T-AGS 60 class ships in support of CNC VOCEANO has multiple requirements to collect bathyn Ls having a single beam sounder and imagery data is col)'s Naval netry and lected by

imagery data in littoral areas. Presently the near-shore data (less than 50 meters) is collected from HSLs having a single beam sounder and imagery data is collected by towing a side scan sonar. The replacement of the single beam sonar with a high resolution swath multibeam capable of collecting 140 degrees swath to 20 meters, 100 degrees swath 20 to 50 meters and 60 degrees swath 50 to 150 meters. The system will collect concurrent bathymetry and imagery data. In 25 meters the HSL would need less than 10% of the time to survey a given area and would collect higher resolution bathymetry and imagery.

CLASSIFICATION:

UNCLASSIFIED

	WEAPONS		Weapon System					DATE:						
		P-{	5										FEBRUA	RY 1999
APPROPR	RIATION/BUDGET ACTIVITY				11	D Code								
BA-7 PE	SONNEL AND COMMAND SUP			лт			UCEANC	JGRAPHIC SU	PPORTE	QUIPMEN				
	TOTAL COST IN THOUSANDS OF DOLLARS													
												1		
COST	ELEMENT OF COST	ID Code		FY 1998		FY 1999			FY 2000					
				UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
			QTY	COST	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
	U.S. NAVAL OBSERVATORY													
	1.3 Charged Coupled Device Array		2	142.5	285.0	1	150.0	150.0	2	136.5	273.0			
	Indium Antimonide Array Detectors					1	190.0	190.0						
	Metrology/Delay Lines & Siderostats/BD		4	220.8	883.0									
	Mark IV VLBI Correlator		1	271.0	271.0									
	Optical Interferometer Subsystem					1	388.0	388.0						
	Optical Interferometer (Infrared)								2	150.0	300.0			
	Cesium System					2	335.0	670.0	3	306.7	920.0			
	Time Transfer Receiver		1	100.0	100.0	2	146.0	291.0	4	146.0	583.0			
	Mark IV Upgrade					1	240.0	240.0						
	VLBI Subsystem					2	125.0	250.0	1	150.0	150.0			
	OBSERVATORY SUBTOTAL		8		1,539.0	10		2,179.0	12		2,226.0			

CLASSIFICATION:

UNCLASSIFIED EXHIBIT P-5

	WEAPONS	SYSTEN P-5	I COST AN	ALYSIS			V		DATE: FEBRUARY 1999					
APPRO Other	OPRIATION/BUDGET ACTIVITY Procurement, Navy PERSONNEL AND COMMAND SUPP			NT		ID Code	P-1 ITEM N OCEANO	IOMENCLATU	RE/SUBHE PPORT E	AD QUIPMENT	L7Z7	I		1 1000
			TOTAL CO	ST IN THOU	JSANDS OF	DOLLARS								
COST	ELEMENT OF COST	ID Ou du		FY 1998			FY 1999			FY 2000				
CODE		Code	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
	NAVAL OCEANOGRAPHIC OFFICE													
	Aircraft Systems													
	Aircraft Data Acquisition System		2	150.0	300.0) 1	200.0	200.0						
	Altimetry Data Fusion Systems													
	Altimetry Data Fusion Center					1	200.0	200.0						
	AUTONOMOUS UNDERWATER VEHICLE													
	Autonomous Underwater Vehicle Recovery		1	300.0	300.0)								
	Autonomous Underwater Vehicle					1	2,650.0	2,650.0	1	2,656.0	2,656.0			
	Central Site Systems													
	Central Data Base Server					1	216.0	216.0						
	Survey Workstations/Mass Storage					3	130.0	390.0						
	Communications Systems													
	ATM Capability/LAN Upgrade		1	972.0	972.0)			1	274.0	274.0			
	Environmental Systems													
	Integrated Drifting Buoys					145	4.0	580.0	130	4.0	518.0			
	Klein 5000 Towfish/Topsider		1	280.0	280.0)								
	Optics Measurement Array		1	120.0	120.0) 1	120.0	120.0						
	NAVOCEANO PAGE TOTAL		6		1,972.0	153	- 1	4,356.0	132		3,448.0			

CLASSI	FICATION: UNCLASSI	FIED												
	WEAPONS	SYSTEN	I COST AN 5	ALYSIS			v	leapon Syster	m			DATE: FEBRUARY 199		
APPRO	DPRIATION/BUDGET ACTIVITY		-			ID Code	P-1 ITEM N	OMENCLATU	RE/SUBH	EAD				
Other	Procurement, Navy						OCEANOC	RAPHIC SU	PPORT E		T L7Z7	7		
BA-7 F	PERSONNEL AND COMMAND SUP	PORTE					1							
			TOTAL CO	TOTAL GOST IN THOUSANDS OF DOLLARS										
COST	ELEMENT OF COST	ID Code		FY 1998			FY 1999			FY 2000				
OODL		ooue	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
	GFMPL SYSTEMS													
	DTC/GFMPL System					1	150.0	150.0						
	GFMPL Hardware Upgrade					1	150.0	150.0						
	HYCOOP SYSTEMS													
	HYCOOP Digital Side Scan Sonar HYDROPHONE SYSTEMS					1	515.0	515.0						
	Hydrophone Collection System					1	250.0	250.0						
	ISS SYSTEMS													
	ISS-60 T-AGS 51/52		1	230.0	230.0									
	ISS-60/System Integration Laboratory UG		1	275.0	275.0									
	METEOROLOGY SYSTEMS													
	Meteorology Phase II Upgrade		4	150.0	600.0									
	MINE WARFARE SYSTEMS													
	MWF Graphics/Analysis Computers		1	160.0	160.0									
	NAVIGATION SYSTEMS													
	Geodetic GPS - T-AGS 51		1	171.0	171.0									
	Geodetic GPS - T-AGS 52					1	171.0	171.0						
					4 400 0			4 000 0	•				<u> </u>	
	NAVOCEANO PAGE TOTAL		8		1,436.0	5		1,236.0	U		0.			

UNCLASSIFIED

APPROP Other Pr BA-7 PE	RIATION/BUDGET ACTIVITY rocurement, Navy RSONNEL AND COMMAND SUPPC						Weapon System							
			ENT		ID Code	P-1 ITEM N OCEANOC	OMENCLATU	RE/SUBHE PPORT E	AD QUIPMENT	r L727	1		<u></u>	
		TOTAL	COST IN THO	USANDS OF	DOLLARS									
COST	ELEMENT OF COST	ID Code	FY 1998			FY 1999			FY 2000					
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
	SATELLITE SYSTEMS													
	Satellite Processing Upgrade	3	128.0	384.0	1	200.0	200.0							
	SEAMAP SYSTEMS													
	SEAMAP Towfish Upgrade	1	250.0	250.0										
	SHALLOW WATER SYSTEMS													
	Towed Bio-Assayer System	1	400.0	400.0										
	Transmission Loss/Bottom Loss Upgrade	3	160.0	478.0										
	SHIPBOARD INSTRUMENTATION													
	CTD Acquisition & Processing System UG	4	128.5	514.0										
	Digital Side Scan T-AGS 51/52	1	265.0	265.0										
	Digital Side Scan with Chirp Subbottom T-AGS 63				1	530.0	530.0							
	EM1000 Multibeam Upgrade - T-AGS 51/52				2	684.0	1,368.0							
	EM1000 Multibeam Sys-Pathfinder	2	453.0	906.0										
	Geodetic Global Positioning Sys-T-AGS 64							1	175.0	175.0)			
	High Speed Digital Side Scan - T-AGS 62				1	400.0	400.0							
	Hydrographic Survey Launch T-AGS 60			0.407.0			0.400.0	2	2,050.0	4,100.0				

CLASSI	FICATION: UNCLASSIF	IED												
	WEAPONS	SYSTEM	COST AN	ALYSIS				Weapon Syster	n			DATE:		
APPRO	PRIATION/BUDGET ACTIVITY	P-:)		11) Code	P-1 ITFM	NOMENCI ATUI	RE/SUBHE	ΞΔD			FEBRUA	KY 1999
Other I	Procurement, Navy					00000	OCEANOGRAPHIC SUPPORT EQUIPMENT							
BA-7 P	PERSONNEL AND COMMAND SUPP	ORT E	QUIPME	NT										
			TOTAL COST IN THOUSANDS OF DOLLARS											
COST	ELEMENT OF COST	ID		FY 1998			FY 1999			FY 2000				
CODE		Code									TOTAL			TOTAL
			QTY	COST	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
	Hydrographic Survey Launch T-AGS 63		1	1,800.0	1,800.0									
	Multibeam - HSL 915 T-AGS 61		1	904.0	904.0									
	Hydrographic Survey Launch - T-AGS 62		2	2,035.0	4,070.0									
	NAVOCEANO PAGE TOTAL		4		6,774.0									
	NAVOCEANO SUBTOTAL		33		13,379.0	163		8,090.0	135		7,723.0			
	FLEET NUMERICAL METEOROLOGY AND OCEANOGRAPHY CENTER													
	POPS Enhancements		1		4,448.0	1		6,328.0	1		8,405.0			
	CNMOC HEADQUARTERS													
	World Magnetic Model		1		1,500.0									
			40		20.966.0	474		46 507 0	4.40		49.254.0			
[TOTAL		43		20,000.0	174		10,597.0	148		18,334.0	CLASSIFI		1

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B. APPROPRIATION/BUDGET ACTIVITY	Febru SUBHEAD	ary 1999	
B. APPROPRIATION/BUDGET ACTIVITY	SUBHEAD		
	SUBHEAD		
Other Procurement, Navy	L	L7Z7	
OPN BA-7: PERSONNEL AND COMMAND SUPPORT EQUIPMEN OCEANOGRAPHIC SUPPORT EQUIPMEN			
CONTRACT DAT	TE OF SPECS	IF NO	
Cost Element/ QTY UNIT LOCATION REP ISSUE METHOD CONTRACTOR AWARD FIL		WHEN	
(000)	IVERT NOW	AVAILABLE	
FY 1998			
CNMOC HEADQUARTERS			
World Magnetic 1 1,500.0 NAVOCEANO MS 12/97 MIPR USGS-DENVER, CO 04/98 06	6/98 YES		
Model			
NAVAL OBSERVATORY			
Mark IV VLBI 1 271.0 NASA GODDARD 12/97 C/FP NASA MARYLAND 01/98 05	5/98 YES		
Correlator SPACE FLIGHT CTR			
1.3M CCD Array 2 142.5 FISC WASH 10/97 C/FP SITE, INCBEAVERTON, OR 01/98 06	6/98 YES		
Metrology/DL & 4 220.8 NRL WASH 12/97 C/FP NRL WASH 08/98 10 Siderostats/BD	0/98 YES		
Time Transfer Receiver 1 100.0 NRL WASH 03/98 C/FP NRL WASH 04/98 08/98	8/98 YES		
METEOROLOGY &			
OCEANOGRAPHY CTR			
POPS Ennancements 1 2,470.0 GSA 08/98 C/PP LITTON PRC, INC 08/98 11	1/98 YES		
" " 1 1,978.0 TAC-JW SPAWAR 08/98 C/FP SUN MICRO SYSTEMS 08/98 11 SANTA CLARA. CA	1/98		

CLASSIFICATION:

UNCLASSIFIED

EXHIBIT P-5A

UNCLASSIFIED CLASSIFICATION: **BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)** Weapon System A. DATE February 1999 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD Other Procurement, Navy BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT L7Z7 OCEANOGRAPHIC SUPPORT EQUIPMENT CONTRACT DATE OF SPECS IF NO Cost Element/ QTY UNIT LOCATION **RFP ISSUE** METHOD CONTRACTOR AWARD FIRST AVAILABLE WHEN FISCAL YEAR COST OF PCO DATE & TYPE AND LOCATION DATE DELIVERY NOW AVAILABLE (000) FY 1998 NAVAL OCEANOGRAPHIC OFFICE AIRCRAFT SYSTEMS Aircraft Data Acquisition System 2 150.0 NAVOCEANO 06/98 C/FP UNKNOWN 09/98 11/98 YES AUTONOMOUS UNDERWATER VEHICLE C/FP Autonomous Underwater Vehicle NAVOCEANO UNKNOWN YES 1 300.0 06/98 09/98 12/98 COMMUNICATIONS SYSTEMS ATM Capability/LAN Upgrade 972.0 NAVOCEANO 12/97 C/FP FDC TECHNOLOGIES 08/98 09/98 YES 1 BETHESDA. MD ENVIRONMENTAL SYSTEMS C/FP KLEIN 5000 Towfish/Topsider 1 280.0 NAVOCEANO 06/98 KLEIN, INC. 08/98 10/98 YES SALEM, NH YES Optics Measurement System 1 120.0 NRL 06/98 WR SATLANTIC, INC 08/98 11/98 D. REMARKS

CLASSIFICATION:

CLASSIFICATION:	UNC	LASSI	FIED								
BUDGET PROCUREMENT H	IISTORY	Y AND PL	ANNING EXHIB	IT (P-5A)		Weapon System		A. DATE			
									Februar	y 1999	
B. APPROPRIATION/BUDG	SET ACT	ΓΙνιτγ			C. P-1 ITE	M NOMENCLATUR	E		SUBHEAD		
Other Procurement, Navy											
BA-7 PERSONNEL AND COMMAN	D SUPPO		IEN		OCEANOGRA	APHIC SUPPORT EQUI	PMEN				
Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST	AVAILABLE	WHEN AVAILABLE	
FY 1998											
ISS-60 SYSTEMS											
ISS-60 T-AGS 51/52	1	230.0	SPAWARS	12/97	WR	SPAWARS N. Charleston, SC	03/98	05/98	YES		
ISS-60/Systems Integration Laboratory UG	1	275.0	SPAWARS	07/98	C/FP	UNKNOWN	09/98	11/98	YES		
METEOROLOGY SYSTEMS											
Meteorology Phase II Upgrade	4	150.0	NAVOCEANO	05/98	C/FP	SUN MICRO SYSTEMS McLEAN, VA	07/98	09/98	YES		
MINE WARFARE SYSTEMS											
Mine Warfare Graphics/Analysis Computer	1	160.0	SPAWARS	03/98	RCP	SPAWAR Washington, DC	08/98	11/98	YES		
NAVIGATION SYSTEMS											
Geodetic Global Positioning System - T-AGS 51	1	171.0	NAVAL ORDINANCE Seal Beach, CA	05/98	RCP	Naval Ordinance Seal Beach, CA	07/98	10/98	YES		
SATELLITE SYSTEMS											
Satellite Processing System Upgrade	3	128.0	NAVOCEANO	07/98	C/FP	UNKNOWN	09/98	12/98	YES		
D. REMARKS											

CLASSIFICATION: UNCLASSIFIED											
BUDGET PROCUREMENT H	IISTORY	AND PL	ANNING EXHIB	IT (P-5A)		Weapon System		A. DATE	A. DATE		
					r				Februar	y 1999	
B. APPROPRIATION/BUDG	SET ACT	IVITY			C. P-1 ITE	M NOMENCLATUR	E				
Other Procurement, Navy											
BA-7 PERSONNEL AND COMMAN	D SUPPO	RTEQUIPM	IEN		OCEANOGRA	APHIC SUPPORT EQUI	PMEN		L7Z7		
Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST	AVAILABLE NOW	WHEN AVAILABLE	
FY 1998											
SEAMAP SYSTEMS											
SEAMAP Towfish Upgrade	1	250.0	NRL	06/98	RCP	Naval Research Laboratory Washington, DC	08/98	10/98	YES		
SHALLOW WATER SYSTEMS											
Towed Bio-Assayer System	1	400.0	NAVOCEANO	06/98	C/FP	UNKNOWN	09/98	11/98	YES		
Transmission Loss/Bottom Loss Upgrade	3	160.0	NAVOCEANO	03/98	C/FP	UNKNOWN	09/98	11/98	YES		
SHIPBOARD INSTRUMENTATION											
CTD Acquisition & Processing System UG	4	129.0	NAVOCEANO	08/98	C/FP	UNDER PROTEST	11/98	01/99	YES		
Digital Side Scan T-AGS 51/52	1	265.0	NRCC Philadelphia	12/97	RCP	Datasonics, Inc. Cataumet, MA	08/98	10/98	YES		
D. REMARKS											

CLASSIFICATION:	UNC	LASSI	FIED							
BUDGET PROCUREMENT H	IISTOR	AND PL	ANNING EXHIE	BIT (P-5A)		Weapon System		A. DATE		
					1				Februar	ry 1999
B. APPROPRIATION/BUDG	SET ACI	ΙΝΙΤΥ			C. P-1 ITE	M NOMENCLATUR				
Other Procurement, Navy										
BA-7 PERSONNEL AND COMMAN	D SUPPO		EN		CONTRACT	APHIC SUPPORT EQUI	PMEN		L7Z7	IE NO
Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST	AVAILABLE NOW	WHEN AVAILABLE
FY 1998										
EM1000 Multibeam Sys-PATHFINDER	2	453.0	SPAWAR	02/98	RCP	SIMRAD SEATTLE, WA	06/98	08/98	YES	
Hydrographic Survey Launch -T-AGS 62	2	2,035.0	NAVSEA	07/98	RCP	HALTER MARINE MOSS POINT, MS	09/98	11/98	YES	
Hydrographic Survey Launch T-AGS 63	1	1,800.0	NAVSEA	07/98	C/FP	HALTER MARINE MOSS POINT, MS	08/98	10/98	YES	
Multibeam - HSL 915 T-AGS 61	1	904.0	SPAWAR	08/98	C/FP	SIMRAD SEATTLE, WA	12/98	02/99	YES	
D. REMARKS	<u> </u>			<u> </u>	1	<u> </u>	<u> </u>		TION	<u> </u>

CLASSIFICATION: UNCLASSIFIED

BUDGET PROCUREMENT H	UDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5.						Weapon System A. DA				
							_		Februar	y 1999	
Other Procurement, Navy OPN BA-7: PERSONNEL AND CO	MMANDS				OCEANOGRA				L7Z7		
Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE	
FY 1999											
NAVAL OBSERVATORY Indium Antimonide Array Detectors	1	190.0	FISC WASH	10/98	C/FP	SBRC-ST BARBARA,CA	11/98	03/99	YES		
1.3M CCD Array	1	150.0	NRL WASH	10/98	C/FP	NRL WASH	11/98	03/99	YES		
Optical Interferometer Subsystem	1	388.0	NRL WASH	12/98	C/FP	NRL WASH	01/99	04/99	YES		
Cesium System	2	335.0	NRL WASH	12/98	C/FP	NRL WASH	01/99	05/99	YES		
Time Transfer Receiver	2	146.0	NRL WASH	03/99	C/FP	NRL WASH	04/99	08/99	YES		
Mark IV Upgrade	1	240.0	NASA MARYLAND	11/98	C/FP	NASA MARYLAND	12/98	04/99	YES		
VLBI Subsystem	2	125.0	NASA GODDARD SPACE FLIGHT CTR	11/98	C/FP	NASA MARYLAND	12/98	04/99	YES		
FLEET NUMERICAL METEOROLOGY & OCEANOGRAPHY CTR											
POPS Enhancements	1	6,354.0	GSA	10/98	C/FP	LITTON PRC, INC SAN DIEGO, CA	02/99	05/99	YES		

CLASSIFICATION:

CLASSIFICATION:	UNC	LASSI	-IED								
BUDGET PROCUREMENT H	IISTORY	AND PLA	ANNING EXHIE	BIT (P-5A)		Weapon System		A. DATE			
B. APPROPRIATION/BUDO Other Procurement, Navy	GET ACT	Ινιτγ			C. P-1 ITE		RE	SUBHEAD			
BA-7 PERSONNEL AND COMMAN	ID SUPPO	RT EQUIPM	EN'		OCEANOGR	APHIC SUPPORT EQUI	PMEN		L7Z7		
Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE	
FY 1999											
NAVAL OCEANOGRAPHIC OFFICE											
AIRCRAFT SYSTEMS											
Aircraft Data Acquisition System	1	200.0	NAVOCEANO	02/99	C/FP	UNKNOWN	03/99	06/99	YES		
ALTIMETRY DATA FUSION SYSTEMS											
Altimetry Data Fusion Center	1	200.0	NAVOCEANO	12/98	C/FP	UNKNOWN	01/99	03/99	YES		
AUTONOMOUS UNDERWATER VEH											
Autonomous Underwater Vehicle	1	2,650.0	NAVOCEANO	12/98	C/FP	UNKNOWN	01/99	03/99	YES		
CENTRAL SITE SYSTEMS											
Central Data Base Server	2	108.0	NAVOCEANO	12/98	C/FP	UNKNOWN	01/99	03/99	YES		
Survey Workstations/Mass Storage	3	130.0	NAVOCEANO	02/99	C/FP	UNKNOWN	03/99	06/99	YES		
ENVIRONMENTAL SYSTEMS											
Integrated Drifting Buoys	145	4.0	NAVAIR Crane, Ind	11/98	RCP	NAVAIR WARFARE Indianapolis, IN	12/98	02/99	YES		
Optics Measurement Array	1	120.0	NAVOCEANO	11/98	C/FP	UNKNOWN	12/98	02/99	YES		
D. REMARKS	<u> </u>								<u> </u>		

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION:	UNC	LASSI	FIED								
BUDGET PROCUREMENT	HISTORY	AND PL	ANNING EXHIB	IT (P-5A)		Weapon System		A. DATE			
B. APPROPRIATION/BUD Other Procurement, Navy BA-7 PERSONNEL AND COMMAN	GET ACT		1EN [.]		C. P-1 ITEM NOMENCLATURE			SUBHEAD			
Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE	
FY 1999											
GFMPL SYSTEMS											
DTC/GFMPL System	1	150.0	NAVOCEANO	01/99	C/FP	UNKNOWN	02/99	04/99	YES		
GFMPL Hardware Upgrade	1	150.0	NAVOCEANO	02/99	C/FP	UNKNOWN	03/99	05/99	YES		
HYCOOP SYSTEMS											
HYCOOP Digital Side Scan Sonar	1	515.0	NRCC Philadelphia	09/98	C/FP	UNKNOWN	10/98	02/99	YES		
HYDROPHONE SYSTEMS											
Hydrophone Collection Ssytem	1	250.0	NAVOCEANO	10/98	C/FP	UNKNOWN	11/98	03/99	YES		
NAVIGATION SYSTEMS											
Geodetic GPS - T-AGS 52	1	171.0	NAVAL ORDINANCE Seal Beach, CA	11/98	RCP	Naval Ordinance	12/98	02/99	YES		
SATELLITE SYSTEMS			,								
Satellite Processing System Upgrade	1	200.0	NAVOCEANO	11/98	C/FP	UNKNOWN	12/98	02/99	YES		
D. REMARKS											

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CLASSIFICATION:

CLASSIFICATION:	UNC	LASSI	FIED							
BUDGET PROCUREMENT H	ISTOR	AND PL	ANNING EXHIB	BIT (P-5A)		Weapon System		A. DATI	É 'FEBRU/	ARY 1999
B. APPROPRIATION/BUDG	ET ACI	IVITY			C. P-1 ITE	M NOMENCLATUR	RE	•	SUBHEAD	
Other Procurement, Navy										
BA-7 PERSONNEL AND COMMAN	D SUPPO	RT EQUIPN	IEN'	1		APHIC SUPPORT EQUI	PMEN	DATE OF	L7Z7	IE NO
Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST	AVAILABLE NOW	WHEN AVAILABLE
FY 1999										
SHIPBOARD INSTRUMENTATION										
Digital Side Scan with Chirp Subbottom 63	1	530.0	NRCC Philadelphia	11/98	C/FP	UNKNOWN	12/98	02/99	YES	
EM1000 Multibeam Upgrade - T-AGS 51/52	2	684.0	SPAWARS	12/98	C/FP	UNKNOWN	01/99	04/99	YES	
High Speed Digital Side Scan - T-AGS 62	1	400.0	NAVOCEANO	11/98	C/FP	UNKNOWN	12/98	02/99	YES	
D. REMARKS										
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BUDGET PROCUREMENT H	IISTOR	Y AND PL	ANNING EXHIB	IT (P-5A)	Weapon System A. D			A. DATE	DATE		
					1				Februar	y 1999	
B. APPROPRIATION/BUDG	SET ACI	ΓΙνιτγ			C. P-1 ITE	M NOMENCLATUR	E		SUBHEAD		
Other Procurement, Navy									L72	27	
OPN BA-7: PERSONNEL AND CO	MMAND S	SUPPORT E	QUIPMEN		OCEANOGRA	PHIC SUPPORT EQUIP	MEN				
Ocal Flamout	OTV				CONTRACT			DATE OF	SPECS	IF NO	
	QIT	COST							NOW		
HOUSE LEAN		(000)	01100	DATE	ame	AND LOCATION	DATE	DELIVENT	Non		
FY 2000											
NAVAL OBSERVATORY											
1.3M CCD Array	2	136.5	NRL WASH	10/99	C/FP	NRL WASH	01/00	05/00	YES		
Optical	2	150.0	NRL WASH	10/99	C/FP	NRL WASH	11/99	03/00	YES		
Interterometer (Infrared)											
(Initiated)											
Cesium System	3	306.7	NRL WASH	12/99	C/FP	NRL WASH	01/00	05/00	YES		
Time Transfer Receiver	4	145.8	NRL WASH	10/99	C/FP	NRL WASH	04/00	08/00	YES		
VLBI Subsystem	1	150.0	NASA GODDARD	11/99	C/FP	NASA MARYLAND	12/99	04/00	YES		
, ,			SPACE FLIGHT CTR								
FLEET NUMERICAL											
METEOROLOGY &											
OCEANOGRAPHY CTR											
POPS Enhancements	1	8 405 0	GSA	10/99	C/FP		02/00	05/00	YES		
TOTO Emilancementa		0,403.0	GOA	10/33	0/11	SAN DIEGO, CA	02/00	03/00	TEO		
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CLASSIFICATION:

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CLASSIFICATION:

BUDGET PROCUREMENT H	BIT (P-5A)	Weapon System A. DA			A. DATE	TE				
					1				Februar	y 1999
Other Procurement, Navy BA-7 PERSONNEL AND COMMAN	D SUPPC	RT EQUIPM	EN'		OCEANOGR	APHIC SUPPORT EQU	PMEN		L7Z7	
Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
FY 2000										
NAVAL OCEANOGRAPHIC OFFICE										
AUTONOMOUS UNDERWATER VEH										
Automomous Underwater Vehicle	1	2,656.0	NAVOCEANO	11/00	C/FP	UNKNOWN	12/00	03/01	YES	
COMMUNICATIONS SYSTEMS										
ATM Capability/LAN Upgrade	1	274.0	NAVOCEANO	12/99	C/FP	UNKNOWN	01/00	03/00	YES	
ENVIRONMENTAL SYSTEMS										
Integrated Drifting Buoys	130	4.0	NAVAIR Crane, Ind	01/00	C/FP	UNKNOWN	02/00	04/00	YES	
D REMARKS										
D. NEWARKO										

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BUDGET PROCUREMENT H	IISTOR	AND PL	ANNING EXHIB	IT (P-5A)		Weapon System		A. DATE			
				. ,	•			February 1999			
B. APPROPRIATION/BUDG	SET AC	ΙΝΙΤΥ			C. P-1 ITE	M NOMENCLATUR	RE		SUBHEAD		
Other Procurement, Navy											
BA-7 PERSONNEL AND COMMAN		RT EQUIPN	IEN'		OCEANOGR	APHIC SUPPORT EQUI	PMEN		L7Z7		
Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	AVAILABLE NOW	IF NO WHEN AVAILABLE	
FY 2000											
Shipboard Instrumentation											
Geodetic Global Positioning System T-AGS-64	1	175.0	NAVAL ORDINANCE Seal Beach, CA	12/99	C/FP	UNKNOWN	01/00	04/00	YES		
Hydrographic Survey Launch T-AGS 61	1	2,050.0	NAVSEA	12/99	C/FP	UNKNOWN	01/00	03/00	YES		
D. REMARKS						1			1	1	

CLASSIFICATION:

BUDGET ITEM JUSTIF		DATE FEB 1999						
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BUDGET ACTIVITY 7			P-1 ITEM N PHYSICAL	OMENCLATU SECURITY EC	RE QUIPMENT (8	12800)		
	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05
QUANTITY								
Cost (in millions)	\$0.3	-	\$1.4	\$2.5	-	-	-	-
Port Security Vehicles This line item provides for the establishment and outfitting of These Port Security Units will satisfy the validated DOD ne Up-Armored High Mobility Multipurpose Wheeled Vehic The SSP funding in this P-1 line in FY 2000 and FY 2001 p Atlantic (SWFLANT) and Strategic Weapons Facility, Pacif and SWFPAC are not HMMWV-type vehicles. SWFLANT Vehicles at both sites are becoming increasingly more diffic operability problems requiring significant management atte The HMMWV is the proposed replacement APC to both Dr has low projected major maintenance costs and has a projected major m	of new U.S. cles (HMMW provides for t ic (SWFPAC has a model cult and expe ntion to mair ragoons and ected long p	Coast Guard CONUS po /Vs) he procuren c). The curren of APC kno ensive to sup ntain the flee V-150s sinc roduction ru	d Port Secur rt security op nent of nucle ent armored wwn as Drago pport. The e et without pre et it fulfills all n.	ty Units. berations ar weapons se personnel carr bons and the s xisting vehicle esenting exces mission requir	ecurity vehicle: iers (APCs) in SWFPAC vehi s have major sive risk to sit rements, has p	s required at th use at SWFL cles are V-150 reliability and e security. Th proven reliabili	ne Strategic W ANT Is. e ty,	eapons Facility,
DD FORM 2454, JUL 88		P-1 SHOPP ITEM NO	PING LIST PAGE NO	EXHIBIT	P-40 BUDGE	ET JUSTIFICA	TION SHEET	
		199	1					
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	WEAPON SYSTEM COST ANALYSIS DATE:							
	EXHIBIT (P-5) PROGRAM COST BREAKDOWN FEB 1999							
A. APPROPRIATION/BUDGET ACTIVITY OPN BA-7:PERSONNEL AND COMMAND		P-1 ITEM NOME	ENCLATURE/S	UBHEAD PHYSIC	AL SECUI	RITY EQUI	PMENT	
SUPPORT EQUIPMENT		TOTAL COST IN THOUSANDS OF DOLLARS						
WEAPON SYSTEM	ldent.	FY 98	TOTAL	FY 99	TOTAL	FY 00	TOTAL	
COST ELEMENTS	Code	Qty	COST	Qty	COST	Qty	COST	
Up-Armored High Mobility Multipurpose Wheeled Vehicles (HMMWVs)						9	1,377	
Port Security Boats								
Ancillary Equipment for Boats								
Vehicles								
Communication Equipment								
Generators 15 kw								
Generators 3 kw								
Emergency Medical Equipment								
Equipment Support Kits								
Field Outfitting Equipment								
Sigonella Security System Upgrade			300					
Total			300				1,377	

P-1 Shopping List

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