



DEPARTMENT OF THE NAVY

COMMANDER

NAVAL OCEANOGRAPHY COMMAND

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03 DEC 1986

From: Commander, Naval Oceanography Command
To: Chief of Naval Operations (OP-006)

Subj: SUBMISSION FOR FEDERAL PLAN FOR METEOROLOGICAL SERVICES
AND SUPPORTING RESEARCH, FISCAL YEAR 1988

Ref: (a) CNO ltr Ser 006D/6U449063 of 22 Oct 86

Encl: (1) U.S. Navy Budgetary Data for FY 1988 Federal Plan
(Resource and Program Narratives and Tables 1 through
3, 5 and 6)

1. Reference (a) requested that we complete the appropriate (operational) sections of the tables and related resource and program narratives.

2. Enclosure (1) is provided in accordance with the Planning Guidance provided by reference (a). Table 4 is negative because it pertains to research programs rather than "operational".

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RESOURCE NARRATIVE FOR FY88 FEDERAL PLAN FOR MET SERVICES AND SUPPORTING RESEARCH:

a. Observations:

Most funding under this functional category is applied toward the Navy share for procurement of a microwave imager for the Defense Meteorological Satellite Program (DMSP), a joint USN/USAF project. This special sensor is tailored for operation aboard a new DMSP spacecraft which will fulfill Navy data requirements for surface wind speed, precipitation intensity and identification of Arctic environmental parameters of tactical interest. Approximately \$10M of FY87 dollars targeted toward this sensor were deleted, resulting in the large (\$19.9M) requirement in FY88. Additional items increased under this category include an upgraded tactical user's terminal to replace aging and unsupportable equipment used with DMSP data, and the procurement of two additional lightning detection and tracking systems (LDATS) to upgrade our capability to observe and track lightning at shore facilities. Category decreases are a reduced number of planned upper air soundings by meteorological rockets and a slight decrease in planned contractor engineering support.

b. Analysis and Forecasts:

The Satellite Processing Center Upgrade (SPCU) at Fleet Numerical Oceanography Center (FLENUMOCEANCEN) will upgrade our ability to assimilate and analyze the vast amounts of oceanographic data which will be available with the launch of the Navy Remote Ocean Sensing System (NROSS) - new equipment and software will be required to support this major program. Additionally, COMNAVOCEANCOM plans to procure upgrades for the Primary Environmental Processing System Upgrade and Expansion (PEPSUE) Information Systems (ISs) at FLENUMOCEANCEN to provide improved and timelier support to operational fleet units. A capability is also included for the Joint Typhoon Warning Center (JTWC) at Naval Oceanography Command Center, Guam to automate the procedures for predicting the formation and forecasted track of tropical cyclones in the Pacific and Indian Oceans - this system will be called the Typhoon Information Processing System (TIPS). By FY88, the Tactical Environmental Support System (TESS), a system which provides afloat oceanographers ready access to environmental data upon which to base tactical forecasts, will be installed at approximately 60 sites. Funding for TESS in FY87 had included installation and training costs, equipment upgrades and interface costs not reflected in FY88. Upgraded data processing capabilities for the NEDN Oceanographic Data

Distribution System/Satellite Processing and Display System (NODDES/SPADS) are also included in this category as are funds for contractor support of climatological studies.

c. Communications:

The Consolidated Communication System (CCS) Replacement at FLENUMOCEANCEN will upgrade obsolete, logistically unsupportable data communications hardware used to transmit environmental data and tailored tactical products to shore activities. CCS interfaces to several networks and ties FLENUMOCEANCEN to data sources worldwide, including USAF and NOAA. Satellite display devices/receivers are part of the Aviation Support Display System (ASDS) which will be installed at CONUS oceanography detachments and serve as stand-alone interfaces to provide a downlink capability for GOES-TAP satellite data and also distribute data to customers such as aviation squadrons, thereby greatly improving the dissemination ability within NAVOCEANCOM.

d. Dissemination to Users:

The principal item under this category is an upgrade to the capability to provide satellite imagery and data to both ashore and afloat units. Six AN/SMQ-11 sets will be purchased in addition to those previously planned. Other category items include funding the ASDS system mentioned in the previous category to interface with external circuits and sources of environmental data, and meteorological and oceanographic sensors and equipment to replace antiquated and unsupportable versions in use within NAVOCEANCOM.

e. General Agency Support:

Items listed under this category involve upgrading existing meteorological equipment - overhauls, rework and reinstallation, and providing training to Navy personnel concerning the observing and tactical useage of data. End strength increases in officer personnel are reflected as is an anticipated military pay raise in FY88. Military construction increases are to provide space for additional environmental equipment - observational and communications - expected in the next few years.

FEDERAL PLAN FOR METEOROLOGICAL SERVICES AND SUPPORTING RESEARCH

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TABLE 1. PROGRAM CHANGES, FY 87

Date: NOV 1986

XX Operational Supporting Research AGENCY NAVY

TYPE/TITLE OF CHANGE
SERVICE AND FUNCTION
NEW OR ONGOING LINE
ITEM/PROGRAM ELEM.

REQUIREMENT

DESCRIPTION OF CHANGE

COSTS (\$K)

1. General PE 35111	Realign FY 1987 costs to reflect updated cost.	A net decrease of -\$20,799 applies to the revised program in the following areas:	
		a. A decrease of ten officers and eighteen enlisted with an increase of seven civilians involved in meteorological support.	-563K
		b. Decrease in funds for procurement of Microwave Imagers for DMSP.	-9,904K
		c. Decrease in MILCON P004 at Fleet Numerical Oceanographer Center.	-3,000K
		d. Decrease cost associated with MET rockets.	-145K
		e. Decrease in the Mini-Sondes System.	-195K
		f. Decrease in Positions and Tracking Systems and associated production engineering.	-61K
		g. Decrease in cost associated with Satellite Processing Center (SPC) Upgrade.	-238K
		h. Decrease to Primary Environmental Processing System (PEPS).	-3,606K

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TABLE 1. PROGRAM CHANGES, FY 87

Date: NOV 1986

XX Operational

 Supporting Research

AGENCY NAVY

TYPE/TITLE OF CHANGE SERVICE AND FUNCTION NEW OR ONGOING LINE ITEM/PROGRAM ELEM.	REQUIREMENT	DESCRIPTION OF CHANGE	COSTS (\$K)
1. General (Cont'd) PE 35111		i. Decrease to O&M,N Tactical Environmental Support System (TESS).	-2,075K
		j. Operation and Maintenance cost of automated data processing equipment and system software required for meteorology analysis, forecast and dissemination.	-200K
		k. SROE and MET associated equipment overhauls and leases.	-448K
		l. Decrease in NODDES/SPADS and NEDS procurement.	-529K
		m. Increase in Navy agency leased communications costs.	+165K

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Date: NOV 1986

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Supporting Research

AGENCY NAVY

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SERVICE AND FUNCTION
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ITEM/PROGRAM ELEM.

REQUIREMENT

DESCRIPTION OF CHANGE

COSTS (\$K)

1. <u>Observations</u> PE 35111N	Provide Equipment	Procurement of Production Engineering	+22,092K
		Procurement of DMSP Microwave Imagers	-5K
		Procurement of MET Rockets	+19,938K
		Procurement of LDATS	-172K
		Procurement of MET Sensors	+169K
			+2,162K
2. <u>Analysis & Forecasts</u> PE 35111N	Provide Equipment	Satellite Processing Center (SPC) Upgrade	-350K
		Procurement of NODDES/SPADS	+2,941K
		Procurement of PEPSR/PEPSUE	+76K
		Procurement of TESS	+15K
			-4,006K
	Climatology Studies	Contract Studies	+74K
		Typhoon Information Processing System (TIPS)	+550K
3. <u>Communications</u> PE 35111N	Provide Equipment	Procure Consolidated Communications System (CCS) Replacement for Environmental/Weather Networks	+2,600K
		Procure Synthetic Aperture Radar	+2,279K
		Procure Satellite Display/Receivers	-200K
			+521K

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TABLE 1. PROGRAM CHANGES, FY 88

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Supporting Research

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ITEM/PROGRAM ELEM.

REQUIREMENT

DESCRIPTION OF CHANGE

COSTS (\$K)

4. Dissemination to Users
PE 35111N

Provide Equipment

Procure Satellite Display System
Procure Sensors/MET Equipment
Procure AN/SMQ-11 Satellite Receiver/
Recorder

+6,540K
+682K
+99K
+5,759K

5. General Agency Support
PE 35111N

Environmental Training

Inflation supplies/aids, etc.

+3,731K
+200K

Personnel Costs

E/S increase in officer plus
military payraise

+190K

Provide Facility

MILCON

+1,440K

Provide Equipment

MET Equipment Installation,
Rework and Overhaul

+1,901K