



National Oceanic and Atmospheric Administration FY 2006 Operational Information Technology Plan

Version 0.5

**Office of the Chief Information Officer
December 5, 2005**



FY 2006 NOAA Information Technology (IT) Operations Plan
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Section 1, Description of IT Organization and Management Processes

1.1. A description of your operating unit's IT management organization.

NOAA Office of Chief Information Officer (OCIO)

The Office of the Chief Information Officer and High Performance Computing and Communications (OCIO/HPCC) implements the provisions of:

- The E-Government Act of 2002 (Public Law No: 107-347)
- Clinger-Cohen Act of 1996 (Public Law No: 104-208)
- Paperwork Reduction Act (Public Law No: 12005-277)

and other directives regarding the acquisition, management, and use of information technology (IT) resources. The OCIO leads the improvement of NOAA operations and service delivery using IT systems, promoting NOAA's effective use of IT to accomplish its mission. NOAA's Chief Information Officer (CIO) is Mr. Carl Staton.

The OCIO leads NOAA's principal IT research through the NOAA High Performance Computing and Communications (HPCC) program, and provides advice to NOAA management on information resources and information systems management. The OCIO also promotes and shapes an effective strategic and operational IT planning process for NOAA, coordinates the preparation of NOAA's IT budget and associated materials, oversees selected NOAA-wide operational IT systems and services, and is responsible for other assigned programs that are interagency and/or international in scope.

Each NOAA Line Office has a designated CIO. The following are the current CIOs for NOAA and their respective Line Offices.

- NOAA - Carl Staton
- NOAA National Environmental Satellite, Data and Information Service (NESDIS) - Zachary Goldstein
- NOAA National Marine Fisheries Service (NMFS) - Larry Tyminski
- NOAA National Ocean Service (NOS) - Hugh Johnson
- NOAA National Weather Service (NWS) - Paul Chan
- NOAA's Office of Oceanic and Atmospheric Research (OAR) - Nancy Huang
- NOAA Marine and Aviation Operations (NMAO) - Gregory Bass
- Information Systems Management Office (ISMO)- John Villemarette

The NOAA's CIOs regularly meet in a Council to discuss IT issues. The CIO Council advances the management and utilization of IT to achieve NOAA corporate goals and objectives. The CIO Council accomplishes this by establishing enterprise wide IT policies, procedures, standards, and practices. Best practices promulgated by DOC, OMB, and the Federal CIO Council are coordinated and integrated by the Council. In addition, the CIO Council oversees NOAA wide IT projects and operations which are funded via organizational cost distribution and other projects

as tasked by the NOAA CIO, or NOAA management. The Council approves and prioritizes the NOAA OCIO budget including projects and services supported by NOAA corporate funds.

A series of committees serve the CIO Council as resources to help address, research, define, analyze, develop, and promote specific subject areas/programs assigned to them. The committees are as follows:

- NOAA Enterprise IT Architecture Committee.
- NOAA Enterprise Messaging Committee.
- NOAA Geographic Information Systems (GIS) Committee.
- NOAA High Performance Computing and Communications Committee.
- NOAA IT Security Committee.
- NOAA Network Advisory Committee.

The CIO Council also occasionally meets as the NOAA Information Technology Review Board (NITRB), reviewing major systems and IT budget initiatives. The NITRB is further discussed in Section 1.2.

1.2. NOAA's Investment Management Process.

NOAA has various mechanisms for planning for IT investments and makes a number of submissions of IT-related documents. The former includes the CIO Council, the Enterprise IT Architecture process, and telecommunications policies; and the latter includes Strategic and Operational IT Plans, and OMB Exhibits 53 and 300.

OMB Circular A-11 provides guidance to Federal agencies on the preparation and submission of budget estimates and related plans. Two of the exhibits required by A-11 affect Information Technology. Exhibit 53 is the Agency IT Investment Portfolio, providing budget estimates for overall IT investments and for major and significant IT systems. Exhibit 300 is a Capital Asset Plan completed for major IT systems and IT budget initiatives. OMB Exhibit 53 reports on IT expenditures by the agency. The Exhibit 300 is a Capital Asset Plan completed for each major IT system or IT budget initiative. NOAA collects information for its Exhibit 53 report by use of another, more detailed financial summary format that provides NOAA and the Department with additional data for planning.

NOAA's Exhibit 53 submission feeds into the Department of Commerce submission, and the Department has the official submission made to OMB. NOAA does not use OMB's format to collect its IT expenditure information. NOAA's Exhibit 300s are written for IT budget initiatives and major IT systems.

The preparation of OMB Exhibit 53 and 300 are coordinated by NOAA's OCIO Planning, Policy and Analysis Office. The Office oversees IT strategic and operational planning. The Office also coordinates the development of IT architectures and the development and use of IT standards, including those relating to telecommunications and office automation.

The NITRB acts as an advisory board for NOAA management on critical IT matters. The NITRB ensures that proposed investments contribute to NOAA's strategic vision and mission, employ sound IT investment methodologies, comply with NOAA systems architectures, and provide the highest return on the investment with acceptable project risk.

Additional information about the NOAA OCIO, the CIO Council, NOAA's IT Committees and the NITRB can be found at the following web sites:

- <http://www.cio.noaa.gov/>
- <http://www.cio.noaa.gov/itmanagement/ciator.htm>.

Table 1 below provides the review schedule for FY 2006.

NITRB Schedule
2005 - 2006 System Reviews of IT Investments

Review Date	Line Office	Exhibit 300 Investment Name	EVM/OA	Mission Goal	Program
* 11/1/05	OAR	IT Services Support Contract		Mission Support	Information Technology
12/13/05	OCIO	NOAANet		Mission Support	Information Technology
12/13/05	NESDIS	Global Earth Observing Integrated Data Environment (GEO IDE)	EVM	Climate	Climate Observations & Analysis
1/10/06	OAR	Geophysical Fluid Dynamics Laboratory (GFDL) High Performance Computing (will be combined with R&D	OA	Weather & Water	Environmental Modeling
1/10/06	CIO	NOAA R&D High Performance Computing System	OA	Weather & Water	Environmental Modeling
2/14/06	NESDIS	NPOESS Data Exploitation (NDE)	EVM	Weather & Water	Local Forecasts and Warnings
2/14/06	NWS	NOAA's Environmental Real-Time Observations	Mixed Life Cycle	Weather & Water	Local Forecasts and Warnings
3/14/06	NESDIS	Environmental Satellite Processing Center (ESPC)	Mixed Life Cycle	Mission Support	Satellite Services – Satellite Services
3/14/06	OCIO	NOAA Grants Back-End System Development	Mixed Life Cycle	Mission Support -	Acquisitions and Grants
4/11/06	NOS	PORTS & NWLON	Mixed Life Cycle	Commerce & Transportation	Marine Transportation Systems
4/11/06	NESDIS	Polar-orbiting Operational Environmental Satellite (POES) Ground System (IT portion)	OA	Mission Support	Satellite Services – Satellite Services
5/9/06	OCIO	Financial Management IT Operations	Mixed Life Cycle	Mission Support -	Information Technology
5/9/06	NWS	Next Generation Weather Radar (NEXRAD) Planned Product Improvement	EVM	Weather & Water	Local Forecasts and Warnings
6/13/06	NOS	Geodetic Support System	OA	Commerce & Transportation	Geodesy
6/13/06	NWS	National Weather Service Telecommunications Gateway (NWSTG) System (consolidates Legacy, Replacement, & CIP)	Mixed Life Cycle	Weather & Water	Local Forecasts and Warnings
7/11/06	NWS	NOAA Weather Radio All Hazards Weather Network	EVM	Weather & Water	Local Forecasts and Warnings
8/8/06	NESDIS	Comprehensive Large Array-data Stewardship System (CLASS)	Mixed Life Cycle	Climate	Climate Observations & Analysis
* Budget/Planning Review					
Non-Major IT Systems					
7/11/06	NMFS	Vessel Monitoring System	Mixed Life Cycle	Ecosystem	Fisheries Management

The Planning, Programming, Budgeting, and Execution System (PPBES) is the process that the National Oceanic and Atmospheric Administration (NOAA) uses to link NOAA’s strategic vision with programmatic detail, budget development, operating activities and information technology. The PPBES meets the Office of Management and Budget’s requirements for a “comprehensive system that integrates analysis, planning, evaluation and budgeting.” A major decision-making process, the PPBES permits the NOAA Undersecretary and Executive Committee to establish strategic directions, specific requirements, corporate performance measures and strategic targets for NOAA’s missions.

Figure 1 below illustrates, the PPBES process is an inclusive process that ties planning, programming, budgeting, and execution together to ensure activities the agency undertakes are effective in meeting NOAA’s mission and vision.

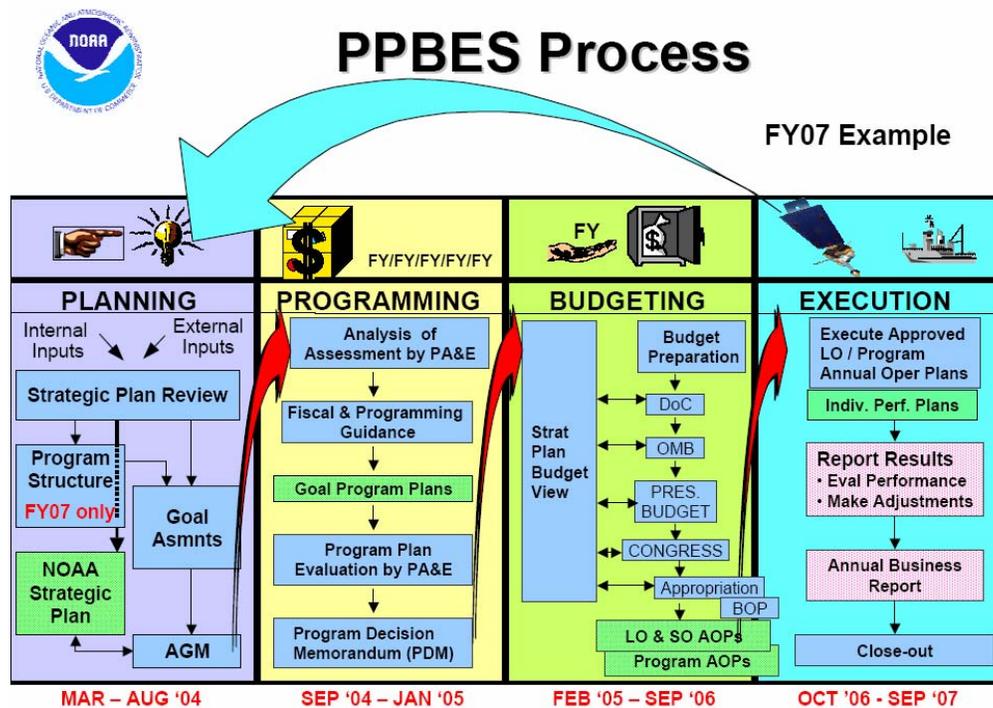


Figure 1 - PPBES Overview

Annually, PPBES has the following objectives:

- Organize and align NOAA’s resources toward achieving Strategic Plan outcomes
- Assess progress in meeting Strategic Plan outcomes
- Prioritize resources among competing requirements
- Select the best alternative program plan to meet Strategic Plan outcomes
- Focus budgeting and accountability on expenditure details (inputs) and on the results (outputs and impact) from the expenditures
- Manage the cost, schedule, and performance of programs
- Adjust resource requirements based on execution performance

There are four major interrelated phases in the PPBES process. These are:

- Planning
- Programming
- Budgeting
- Execution.

Additional information about NOAA's PPBES process can be found at following URL, <https://www.ppbs.noaa.gov/>.

NOAA has adopted a structure of four Mission Goals and a Mission Support Goal around which all of its work is planned. The Mission Goals are:

- **Ecosystems:** Protect, Restore, and Manage the Use of Coastal and Ocean Resources Through an Ecosystem Approach to Management
- **Climate:** Understand Climate Variability and Change to Enhance Society's Ability to Plan and Respond
- **Weather and Water:** Serve Society's Needs for Weather and Water Information
- **Commerce and Transportation:** Support the Nation's Commerce with Information for Safe, Efficient, and Environmentally Sound Transportation
- **Mission Support:** Provide Critical Support for NOAA's Mission

The current program structure by Mission Goal is shown in the table on the next page.

FY08 Program Structure: Program Managers					
Goal	Program	Program ID Code	Goal and Sub-goal Leads	Program Manager	Note
Ecosystem Goal			Jack Dunnigan (NMFS)		
	Habitat	HAB		Garry Mayer Acting (NMFS)	
	Corals	COR		David Kennedy (NOS)	
	Coastal & Marine Resources			Doug Brown (NOS)	
		CMR			
	Protected Species	PSP		Phil Williams (NMFS)	
	Fisheries Management	FMP		Galen Tromble (NMFS)	
	Aquaculture	AQC		Michael Rubino (NMFS)	
	Enforcement	ENF		Dale Jones (NMFS)	
	Ecosystem Observations	EOP		Steve Murawski (NMFS)	
	Ecosystem Research	ERP		Leon Cammen (OAR)	
Climate Goal/Program			Chet Koblinsky (OAR)	Chet Koblinsky (OAR)	
	- Climate Observations & Analysis	COA		Tom Karl (NESDIS)	
	- Climate Forcing	CLF		Dan Albritton (OAR)	
	- Climate Predictions & Projections	CPP		Ants Leetmaa (OAR)	
	- Climate & Ecosystems	CLE		Ned Cyr (NMFS)	
	- Regional Decision Support	RDS		Bob Livezey (NWS)	
Weather & Water Goal			Frank Kelly (NWS)		
	Local Forecasts and Warnings			Don Wernly (NWS)	
		LFW			
	Coasts, Estuaries, and Oceans	CEO		Paul Scholz (NOS)	
	Space Weather	SWX		Ron Zwickl Acting (NWS)	
	Hydrology	HYD		Gary Carter (NWS)	
	Air Quality	AQL		Jim Meagher (OAR)	
	Environmental Modeling	MOD		Fred Toepfer (NWS)	
	Weather Water Science, Technology, and Infusion Program	WWS		Marty Ralph (OAR)	
	Tsunami	TSU		David Green (NWS)	
Commerce & Transportation Goal			Steve Barnum Acting (NOS)		
	Marine Transportation Systems			Rich Edwing (NOS)	
		MTS			
	Aviation Weather	AWX		Kevin Johnston (NWS)	
	Marine Weather	MWX		Therese Pierce (NWS)	
	Geodesy	GEO		Dave Zilkoski (NOS)	
	NOAA Emergency Response	EMR		David Kennedy (NOS)	
	Commercial and Remote Sensing Licensing	CRS		Kay Weston (NESDIS)	
	Surface Weather	SFC		Mike Campbell (NWS)	
Mission Support					
	Satellite Sub-goal		Gary Davis Acting (NESDIS)		
	Geostationary Satellite Acquisition	STG		Gary Davis (NESDIS)	
	Polar Satellite Acquisition	STP		Michael Mignogno Acting (NESDIS)	
	Satellite Services	SSV		Richard Barrazotto (NESDIS)	
	Fleet Services Sub-goal		Elizabeth White (NMAO)		
	Aircraft Replacement	ACR		Elizabeth White (NMAO)	
	Fleet Replacement	FLT		Elizabeth White (NMAO)	
	Marine Operations and Maintenance	SHP		Elizabeth White (NMAO)	
	Aircraft Services	ACF		Elizabeth White (NMAO)	
	Leadership Sub-goal		Mitchell Luxenberg (NOS)		
	NOAA Headquarters	MGT		George White (USAO)	
	Line Office Headquarters	LHQ		Mitchell Luxenberg (NOS)	
	Homeland Security Program Support Sub-goal	SEC	Lead - William Broglie Deputy Lead - Vacant	Phil Kenul (CIO)	
	Administrative Services	AOS		William Broglie (CAO)	
	Financial Services	FIN		Sherry Morrissette (CFO)	
	Workforce Management	WMP		Barbara Boyd (WFM)	
	Acquisitions and Grants	AQP		Bob Stockman (AGO)	
	Information Technology Services	ITS		John Villemarette (CIO)	
	Facilities	FAC		William Broglie (CAO)	
	LEGEND:				
Matrix Program			Revised: 10/1/05(a)		
Non-Matrix Program					

1.3. NOAA's Current and Planned Enterprise Architecture.

NOAA's current and target Enterprise Architecture are documented in NOAA Enterprise Architecture Version 1.5 dated August 30, 2005.

The Lines of Business for NOAA's Five Mission Goals as defined by The Federal Enterprise Architecture Program Management Office Business Reference Model Version 2.0 are shown in the table below

Mission Goal	Lines of Business	Sub Function
Coastal and Marine Ecosystems	Environmental Management	Environmental monitoring and forecasting
	Environmental Management	Environmental remediation
	Law Enforcement	Criminal Investigation & Surveillance
	Natural Resources	Conservation, Marine & Land Management
	Government Service Delivery	Regulatory Compliance and Enforcement /Permits and licensing
	Regulatory Development	Regulatory Creation
Climate	Environmental Management	Environmental Monitoring & Forecasting
Weather and Water	Disaster Management	Emergency Response
	Education	Higher Education
	Environmental Management	Environmental Monitoring and Forecasting
	Internal Risk Management and Mitigation	Contingency of Operations
	Recreational Resource Management & Tourism	Water Resource Management
Commerce & Transportation	Disaster Management	Emergency Response
	Information & Technology Management	IT Infrastructure Maintenance
	Natural Resources	Conservation, Marine & Land Management
	Transportation	Water Transportation
Mission Support: Satellites	Environmental Management	Environmental Monitoring & Forecasting
Mission Support: Administration and IT Services	Federal Financial Assistance	Federal Grants (Non-State)
	Financial Management	Reporting and Information
	Information and Technology Management	System Maintenance
		IT Infrastructure Maintenance
		IT Security

1.4. NOAA's Compliance with the Departmental IT Security Program Requirements.

IT Security within NOAA is addressed through the following activities:

- Certification and Accreditation
- Security Awareness training for all employees and contractors, and specialized training for system and network administrators
- IT Network Protection through virus protection and patching
- Annual FISCAM Audits
- Network scans performed at least quarterly to identify potential vulnerabilities including unused services and ports.

To ensure confidentiality, integrity, and availability of all NOAA's IT systems and data, all national critical systems have been certified and accredited (C&A) in FY2005. All other IT systems (mission critical and business essential systems will have C&A completed by end of FY2006. NOAA reviews and ensures that all NOAA administrative systems fully comply with DOC and NOAA security policy related to software applications. This includes review of all administrative application procurement documents such as Statements of Work and contractor proposals to ensure proper IT security is provided and followed. NOAA ensures all systems have a completed C&A package in place prior to implementation. Personnel are required to take the annual IT Security Awareness training online. In addition, all incoming contractors are required to take this course prior to access to NOAA's systems. Specialized training is provided through a SANS training agreement program. This is on-line specialized training .

Based on past experiences with computer infections NOAA has become much more aggressive in preparing for future computer infections. NOAA continues to implement the following actions to improve our response to computer threats:

- Requiring physical and technical access to all machines on client networks, including training and special software computers, regardless of who is responsible for updating and maintaining the machines;
- Restricting and monitoring access to local area network (LAN) server rooms;
- Investigating the use of Instant Messaging to improve communications with users and among systems support staff;
- Reconfiguring and activating software (E-Policy Orchestrator) to scan for infections every 4 hours; if an infection is found, additional software (Stinger Tool) will clear the machine;
- Establishing and configuring a Microsoft System Update Server to automatically identify and push updates to computers.
- Establishing and configuring an imaging server to ensure consistency in loading standard software configurations on desktop machines.

The **NESDIS** IT Security Program continues to mature. During FY 2005 all NESDIS National Critical (NC) Systems were reaccredited. DOC OCIO recognized NESDIS for its leadership in the Certification and Accreditation (C&A) process, noting that the C&A effort was the standard for the Department. The DOC IG also noted the significant improvement that NESDIS has

made. DOC OCIO and IG recognition in this area validates our compliance with Departmental requirements. The balance of NESDIS IT systems will be reaccredited during FY 2006.

Implementation of the newly revised DOC IT Security Program Manual, as amplified by the pending NOAA Manual, will occur in FY 2006. These requirements will drive the need for additional security resources to maintain our compliance level. To this end NESDIS has added security staff, both from the contractor and Government arenas, to drive the program. In FY 2005, vulnerability testing efforts increased both in frequency and scope, and independent penetration testing of NESDIS NC systems was conducted. To ensure continued compliance, NESDIS is implementing a configuration management approach that will provide standards, and enforce compliance through regular in-house review and testing.

All NESDIS employees received security awareness training during FY 2005.

NWS is in compliance with DOC's IT Security Program Implementation Policy. It has completed the Certification and Accreditation of all national critical systems.

NMAO's IT Security Program complies with the DOC and NOAA IT Security Program. Security Awareness is provided through inter office eMail announcements, alerts, warnings and posters. The NOAA on-line Security Awareness Training is mandatory for all shore based NMAO employees. A mandatory off-line version has been implemented for employees on NOAA ships to take the training and automatically register their completion in the NOAA ITSEC Awareness Student Data Base.

- NMAO plans to complete Information Technology Security Certification and Accreditation for all Mission Critical and Business Essential Systems by April 30, 2006 in accordance with DOC and NOAA Standards and Guidelines.
- For all NMAO Mission Critical and Business Essential systems performance vulnerability assessments will be conducted quarterly
- NOAA audits will be conducted as requested
- For all NMAO Mission Critical systems contracted Independent Verification & Validation will be performed by September 30, 2006
- Employees of NMAO who perform IT work have an element in their performance plan that evaluates their improvement in the way their IT work is performed. This element is established and evaluated by the employee's direct supervisor and the most senior IT manager for those personnel.

1.5. Summary of NOAA's FY 2005 IT Accomplishments.

1.5.1. Coastal and Marine Ecosystems

NMFS/Vessel Monitoring System (VMS)

- INITIATIVE - In FY 2005 the VMS program expanded, increased efficiency, and enhanced services: 800 new vessels were added during FY 2005; service level management was fully automated onto a centralized service management system; system administration procedures were standardized; all remaining divisions were added to the NOAA/USCG data sharing and replication program; new, lower cost transponders were added to divisions with enhanced communications features.
 - PROJECT MANAGEMENT
 - The total program cost for FY 2005 was \$3,425,200. Total allocated funding for the VMS program for FY2005 was \$2,956,000. Obligations totaled \$2,117,600, with a variance of \$839,400. Additionally, \$1,366,300 of carryover funds was allocated and \$1,307,600 was obligated with a variance of \$58,700. The variance is due to service contract awards being delayed until the 2nd quarter of FY2006.
 - All implementations and planned milestones have been met.
 - The VMS system maintained an uptime rate exceeding 99% during FY 2005.
 - IMPACT/BENEFITS
 - Better rule enforcement capability without increased costs. Enhanced safety of the vessels at sea.
 - Enhanced system availability and reliability through better oversight of system service levels.
 - Increasing options available to the industry resulted in increased competition among VMS providers reducing the overall cost of VMS and related services.

NMFS/Fisheries Information System (FIS)

- INITIATIVE: Phase I of National Permits Project: The first phase of the National permits project conducted stakeholder meetings in headquarters and all six regions of the Agency to assess the status of current regional business practices and information systems for permits and other forms of participant registration.
 - PROJECT MANAGEMENT
 - Cost: The IT component of this work cost \$300K.
 - Schedule: The work started late, March 2005. It was completed on schedule by September 30, 2005.
 - Performance: The performance measure for this initiative was a series of 7 meeting reports. The baseline was 0 and the target of 7 reports was attained.
 - IMPACT/BENEFIT: These meetings obtained and documented critical needs which must be addressed in evaluating and selecting an appropriate business model for an efficient national permits information system that better serves the needs of both participants and the different regional and headquarter offices.

- INITIATIVE: Formal governance structure and process for the Fisheries Information System Program: The Program Management Team (PMT) consisting of representatives from all six regions, two headquarters offices, and three state/federal cooperative fisheries information programs worked collaboratively through a series of meetings to develop a consensus governance structure and process for the Fisheries Information System Program.
 - PROJECT MANAGEMENT
 - Cost: The IT component of this work cost \$20K.
 - Schedule: The work started in October of 2004 and was completed on schedule in March of 2005.
 - IMPACT/BENEFITS: Program Governance Structure approved by all agency and state/federal partners.

- INITIATIVE: Reconciliation of dealer and vessel trip reports of commercial fisheries landings. This project initiated transport and adaptation of the reconciliation system developed in FY04 for the Southeast Region to implement a system that will meet the needs of the Pacific Islands Region for reconciliation of dealer and vessel trip reports of commercial fisheries landings.
 - PROJECT MANAGEMENT
 - Cost: The FY2006 IT component of this work cost \$100K.
 - Schedule: The work started late (March 2005). It continued on schedule through September 30, 2005. The planned completion date is September 30, 2006.
 - Performance: The performance measure for this initiative is the number of states in which the electronic dealer reporting system has been completed. The baseline is 0 states and the target is all 3 Pacific states.
 - IMPACT/BENEFITS: More complete and accurate information for policy and planning.

- INITIATIVE: FIS Program Management Plan. The PMT completed development of a high level multi-year Fisheries Information System Program Plan.
 - PROJECT MANAGEMENT
 - Cost: The IT component of this work cost \$100K.
 - Schedule: The work started in March of 2004 and was completed on schedule in September of 2005.
 - Performance: The performance measure for this initiative was a formal FIS Program Plan document that was approved by all agency and state/federal partners.
 - IMPACT/BENEFITS: Foundation for more comprehensive and cost-effective FIS program management.

NMFS/E-Gov Initiatives: e-Rulemaking Federal Docket Management System (FDMS)

- INITIATIVE: Establishment of overall project plan for deploying and migrating to the Federal Docket management System (FDMS). Established the roles of NOAA E-Rulemaking Coordinator and NOAA Fisheries E-Rulemaking Headquarters and Regional Coordinators. Developed Business Rules for using FDMS.

- PROJECT MANAGEMENT INFORMATION:
 - Project Cost: Contractor cost: approx \$5K
 - Schedule: NOAA Fisheries is scheduled to be fully migrated to FDMS by June 30, 2006. The remainder of DOC including NOAA will migrate by September 30, 2006
- IMPACT/BENEFIT:
 - Allows citizens to easily access and participate in the rulemaking process.
 - Improves the access to, and quality of, the rulemaking process for individuals, businesses, and other government entities while streamlining and increasing the efficiency of DOC and NOAA internal processes.
 - More public involvement in the rulemaking process results in rules and regulations that more effectively meet constituent requirements

NMFS/Paperwork and Regulatory Information Management Environment (PRIME)

- INITIATIVE: Established overall detailed project plan for developing and deploying PRIME. Completed software development of phase 1 program modifications to meet Magnuson Stevens Act rulemaking requirements. Conducted phase 1 system testing.
 - PROJECT MANAGEMENT INFORMATION:
 - Project Cost: Contractor cost: approx \$200K
 - Schedule: NOAA Fisheries is scheduled to conduct a pilot in Jan 6 and fully deploy by March 15, 2006.
 - IMPACT/BENEFIT:
 - Streamlined internal regulation development
 - Provides management a dashboard of the status of all NMFS regulatory activities from inception to promulgation
 - Implement the Regulatory Streamlining process

1.5.2. Climate

NESDIS/Comprehensive Large Array-data Stewardship System (CLASS)

- INITIATIVE – During FY 2005, CLASS developed and fielded upgraded versions of its core system, conducted data campaigns for expanded access to NESDIS-managed data sets and products, and developed appropriate metadata
 - PROJECT MANAGEMENT INFORMATION - The CLASS system upgrades, data campaigns, and metadata development efforts were completed on schedule at the as-planned cost of \$9,100K.
 - IMPACT/BENEFIT – The FY 2005 CLASS initiative provided more-efficient customer service, faster data throughput, increased online access to datasets (e.g. GOES, EOS, NPP) and higher-quality metadata.

NESDIS/ NOAA National Data Centers (NNDC)

- INITIATIVE: Climate Database Modernization Program (CDMP) continued to image and key historical climate and environmental records bringing the total number on-line to 45 million, 6 terabytes. Additionally, 8 million records were added to NOAA’s databases
 - PROJECT MANAGEMENT INFORMATION: Conversion contracts and tasks were completed on schedule and as budgeted \$6.2M
 - IMPACT/BENEFIT: Completions provided increased access to climate records via the Internet and provided extended databases farther back in time to the climate community
- INITIATIVE: NCDC - improved IT infrastructure and security by installing failover servers and “bullet-proofing” the IT Architecture, purchased fire suppression system and improved data management capabilities for the increasing numbers of users.
 - PROJECT MANAGEMENT INFORMATION: Archived large volumes of data and provided data products to a wide range of government entities, scientists, farmers, lawyers and the general public within project cost
 - IMPACT/BENEFIT: Over 7 terabytes of data and 114 products made available to customers online
- INITIATIVE: NCDDC - Upgraded the Metadata Management System, developed additional data access gateways, migrated email services and developed an authentication capability to limit access and migrated email to NOAA Messaging Operations Center
 - PROJECT MANAGEMENT INFORMATION: Gateway and Map service development is on-going and is consistently within 10% of planned schedules and costs. End of year deliverables were delayed due to the center’s shutdown caused by Hurricane Katrina.
 - IMPACT/BENEFIT: provided additional capabilities and access to data users (coastal managers, scientists and the public) to manage and study coastal resources in an efficient manner; mail migration to MOC servers provided economy of scale; Cataloging allowed enhanced search capabilities.

- INITIATIVE: NGDC improved IT infrastructure, security, archive/access system to improve data management capabilities for users. Also provided planning for the creation of a new CLASS archive node at NGDC.
 - PROJECT MANAGEMENT INFORMATION: Provided large volumes of geophysical data and data products to a wide range of government, scientists and general public decision makers.
 - IMPACT/BENEFIT: Initiatives resulted in delivering 24.5 Terabytes of online data to 3.28 million individual users, an annual increase of 88% in data volume and 20% increase in users.

- INITIATIVE: NODC improved IT infrastructure, security, and archive/access system to improve data management capabilities for increasing numbers of users. Reduced the types of servers and operating systems that need to be maintained
 - PROJECT MANAGEMENT INFORMATION: Provided large volumes of data and data products to a wide range of government, scientists and general public decision makers.
 - IMPACT/BENEFIT: Initiatives resulted in an enhanced delivery mechanism so more data can be delivered online, in a more efficient way. Delivered 3.7 terabytes of online data, in 35 million files, to 1.5 million unique users.

- INITIATIVE: National Virtual Data System (NVDS) implemented the NESDIS e-Commerce System (NeS), a web-based application that fulfills on-line service requirements...expanded and improved metadata and geospatial services.
 - PROJECT MANAGEMENT INFORMATION: Provides an e-Government component for purchase and order fulfillment of environmental data, information, and products within budget.
 - IMPACT/BENEFIT: Delivered over 25TB of data.

NESDIS Headquarters (HQ)

- INITIATIVE: Continue CasaNOSA's ability to provide collaboration support to NOAA Programs
 - PROJECT MANAGEMENT INFORMATION: Upgrade server was procured costing 6.2K and a failover system was created within the estimated time frame.
 - IMPACT/BENEFIT: The upgraded server allows more users at the same time, the creation of the failover allows for continuation of service in the event of a failure on the primary server. IT security measures were also increased as part of the improvements.

1.5.3. Weather and Water

NWS Telecom Gateway Replacement and Backup

- INITIATIVE: Developed a new message switch system to meet increasing communication demands and replace end-of-life-cycle equipment.
 - PROJECT MANAGEMENT INFORMATION: The development is now complete and the system is currently being tested. Construction of the Backup Gateway building was completed on schedule in 11/2004. The Gateway team has

been installing equipment in this Mt. Weather facility to prepare for systems and network integration.

- IMPACT/BENEFIT: Improved capacity and availability of this national critical system.
- INITIATIVE: Strengthened supporting infrastructure for the Gateway.
 - PROJECT MANAGEMENT INFORMATION: Installed new power distribution units and uninterruptible power supply, rewired the fire alarm circuits, installed blast protection film on windows; installed new reserve water system and air handler units to improve climate control.
 - IMPACT/BENEFIT: Improved uninterrupted availability of system: over 99% with no complete system outages.

NWS Telecom Gateway Operations

- INITIATIVE: Improvement of Telecom Gateway operations.
 - PROJECT MANAGEMENT INFORMATION:
 - Completed the implementation of the Most Efficient Organization in the Gateway.
 - Began radar Level II data monitoring
 - Monitoring support of 18 FAA Automated Weather Sensor Systems (10 operational so far)
 - Monitoring support for 72 DoD ASOSs (9 operational so far)
 - IMPACT/BENEFIT: The Gateway currently closes an average of over 7000 trouble tickets a month and meets the MEO performance standards over 92% of the time.

NWSNet

- INITIATIVE: Continue to replace the legacy network with new MPLS technology,
 - PROJECT MANAGEMENT INFORMATION:
 - Since 12/2004, all the regional HQs and the Gateway have been connected to the MPLS.
 - Tools have been installed for continuous network monitoring.
 - A prototyping effort is currently underway to eventually connect every NWS location to this network and allow AWIPS to share NWSNet's communication lines to reduce overall costs.
 - Improved data availability by strengthening the network that distributes Level-2 NEXRAD data and developed monitoring capability for its distribution.
 - IMPACT/BENEFIT: Improved data availability, higher bandwidth, lower costs, and fewer single-points-of failures. The consistent configuration of the network across NWS will make it more robust and secure.

NWS web dissemination

- INITIATIVE: Increase capacity to meet information demands during high-demand periods.

- PROJECT MANAGEMENT INFORMATION: The web team coordinated load-balancing among the web farms and outsource high-volume web traffic to meet extreme demands. The global load balancing distributed hits across the NWS farms. Over an 8-day period each for Katrina and Rita, user access to the NWS websites reached 2.3 and 2.9 billion hits, respectively (as compared to 255 million hits during the 5-day Isabel and 341 million hits during the 4-day Charley hurricanes). During Rita, there were about 50 million user-access sessions.
- IMPACT/BENEFIT: The web response time averaged 0.35 seconds for both Katrina and Rita (compared to 1.7 seconds for Charley and 1.01 seconds for Ivan). There was no major glitch during these hurricanes.

NWS New radar display

- INITIATIVE: A NWS-wide team developed a new format for displaying web radar and the infrastructure for creating the displays.
 - PROJECT MANAGEMENT INFORMATION: Format and infrastructure were completed; complete deployment planned for January 2006.
 - IMPACT/BENEFIT: This effort improved the reliability of the data feeds, increased the number of products, and provided more options for users. More than 20,000 public comments on this new radar product have been received, almost all favorable.

1.5.4. Commerce and Transportation

NESDIS/ Search and Rescue Satellite-Aided Tracking (SARSAT)

- INITIATIVE: Introduced the use of the Aeronautical Fixed Telecommunications Network (AFTN) and File Transfer Protocol/ Virtual Private Network (FTP/VPN) over the Internet.
 - PROJECT MANAGEMENT INFORMATION: It costs approximately \$400 for the contractor staff to implement one AFTN connection and \$5600 to implement one FTP/VPN connection. All conversions were on schedule and within planned costs.
 - IMPACT/BENEFIT: A savings of approximately \$100K per year will be realized when all MCCs no longer use the X.25 Packet Switched Data Network.
- INITIATIVE: Life-cycle refresh of the SARSAT U.S. Mission Control Center. The refresh included replacement of all operational servers, workstation hardware, operating systems and SQL database.
 - PROJECT MANAGEMENT INFORMATION: SARSAT was allocated \$200K for the life cycle refresh and all funds were expended for this purpose. There was a delay in completing the work due to a delay in the delivery of equipment from the vendor.
 - IMPACT/BENEFIT: The refresh of aging hardware allowed SARSAT to maintain stated system availability performance measures. Replacement of the operating system allowed SARSAT to maintain application of appropriate critical operating system patches.

NOAA E-Gov Geospatial One-Stop

- INITIATIVE: Geospatial One-Stop development
 - PROJECT MANAGEMENT INFORMATION:
 - Regular meetings of GOS steering committees
 - Responded to E-Gov reporting requirements
 - IMPACT/BENEFIT: Compliance with PMA

NOAA GIS Technologies

- INITIATIVE: Development of NOAA architecture
 - PROJECT MANAGEMENT INFORMATION: Regular meetings of NOAA GIS committee
 - IMPACT/BENEFIT: Improved collaboration among NOAA offices and other government partners

NOS Integrated Ocean Observation System (IOOS) Participation

- INITIATIVE: Implemented Network Common Data Format (netCDF) data server.
 - PROJECT MANAGEMENT INFORMATION: Center for Operational Oceanographic Products and Services (CO-OPS) IOOS Team formation, dedication of supporting staff, action plan developed.
 - IMPACT/BENEFIT:
 - Improved interoperability
 - Supported 14 extramural data sharing entities

NOS Active Directory Migration

- INITIATIVE: Migration of NOS program offices to Active Directory
 - PROJECT MANAGEMENT INFORMATION:
 - Implemented domain level group policy
 - Employed configuration management strategies
 - 90% completion of migration
 - IMPACT/BENEFIT:
 - Improved security
 - Improved collaboration

NOS Hurricane Response

- INITIATIVE: Support to hurricane response efforts
 - PROJECT MANAGEMENT INFORMATION:
 - Obtained and made available over 14000 post-hurricane digital images
 - Supported the ICC GIS analysis efforts
 - IMPACT/BENEFIT:
 - Provided rapid access to imagery for responders, government entities and public to aid the response efforts.
 - Provided ICC and NOAA managers with graphic depiction of NOAA assets to assess the situation and aid the response effort.

1.5.5. Mission Support: Satellite

NESDIS Environmental Satellite Processing Center (ESPC)

- INITIATIVE: Application needs/Upgrades for porting source code
 - PROJECT MANAGEMENT INFORMATION: 43 of 61 identified milestones met on schedule at a cost of \$4.9M
 - IMPACT/BENEFIT: Furthers consolidation of SATEPS and CEMSCS which will result in substantial cost savings

NESDIS GOES Ground System

- INITIATIVE: During FY 2005, the GOES Ground System enhanced and upgraded its data capture, ingest, processing, commanding, and communications and developed a prototype for the Data Collection System (DCS) Automated Processing System (DAPS).
 - PROJECT MANAGEMENT INFORMATION: The general [IT-related] GOES GS enhancements and upgrades and the DAPS system-specific upgrade were completed on schedule at the as-planned cost of \$18,450K.
 - IMPACT/BENEFIT: The “steady state” enhancements and upgrades ensured mission continuity while the system-specific DAPS upgrade demonstrated techniques to increase DCS system capacity and improve data throughput.

NESDIS NPOESS Ground System

- INITIATIVE: Completion of the NPOESS Preparatory Project interface command test 1
 - IMPACT/BENEFIT: Early verification of Command, Control and Communications (C3) compatibility.
- INITIATIVE: Completion of all NPP Visible Infrared Imager Radiometer Suite (VIIRS) algorithm drops to the Interface Data Processing Segment (IDPS)
 - IMPACT/BENEFIT: Any IDPS development will now include all VIIRS algorithms.
- INITIATIVE: Completion of NPOESS Delta Preliminary Design Review
 - IMPACT/BENEFIT: Ensures NPOESS system concept and requirements are completely understood and allocated to the appropriate subsystem. It is the gateway which allows the program to proceed to Critical Design Review.

NESDIS Office of Satellite Data Processing and Distribution (OSDPD) Systems CIP

- INITIATIVE: During FY 2005, the OSDPD CIP initiative completed development of an OSDPD backup facility at the Wallops CDA station and acquired the equipment for a new OSDPD capability at the NOAA Satellite Operations Facility (NSOF).
 - PROJECT MANAGEMENT INFORMATION: The [IT-related] OSDPD CIP development and acquisition activities were completed on schedule at the as-planned cost of \$1,559K.
 - IMPACT/BENEFIT: The OSDPD CIP removes a critical single point of failure in the delivery of weather forecasts and severe storm warnings.

NESDIS POES Ground System

- INITIATIVE: During FY 2005, the POES Ground System enhanced and upgraded its capabilities for command and control and for operational management. It also made changes to accommodate the IJPS mission and to improve offline testing.
 - PROJECT MANAGEMENT INFORMATION: The [IT-related] POES GS enhancements and upgrades were completed on schedule at the as-planned cost of \$18,267K.
 - IMPACT/BENEFIT: These “steady state” enhancements and upgrades ensured mission continuity by maintaining reliable operations.

NESDIS Satellite Operations Control Center Command and Data Acquisition (SOCC/CDA)

- INITIATIVE: Successful installation and deployment of new IT Systems.
 - PROJECT MANAGEMENT INFORMATION: Installed Patch Management systems, Intrusion Detection Systems and Harris Stat system at OSO sites. The email system for all sites was consolidated into the NOAA Email servers. Updated legacy network equipment completed.
 - IMPACT/BENEFIT: Greater IT security controls implemented. Consolidated email resources generated cost savings. On going IT refresh of network and PC devices has increased the level of IT security.

- INITIATIVE: Wallops CDA completed upgrade to Meteosat Second Generation (MSG) System
 - PROJECT MANAGEMENT INFORMATION: MSG data sent to the CDA in an unencrypted format... must be encrypted prior to being re-transmitted for distribution...completed project on time and on schedule for a cost of \$200K.
 - IMPACT/BENEFIT: MSG upgrade provided the ability to encrypt data and also decrypt the same data for quality monitoring purposes.

- INITIATIVE: Wallops CDA completed Phase2 Homeland Security Upgrades
 - PROJECT MANAGEMENT INFORMATION: Upgrades completed on schedule for a cost of \$39K. Included installation of new intruder detection and video surveillance equipment.
 - IMPACT/BENEFIT: Increased effectiveness and reliability of the Wallops CDA Station's security systems to protect it's personnel and physical assets.

- INITIATIVE: Wallops CDA completed Facility Upgrades (Utility and Road Improvements)
 - PROJECT MANAGEMENT INFORMATION: Occurred on time and within budget in FY2005 for a cost of \$1.1M. Included completion of the connection of the potable water supply and sewage discharge to NASA's water supply system and sewage treatment processing plant.
 - IMPACT/BENEFIT: Provided a reliable supply of potable water and source for treating it's waste stream...reduced environmental concerns

- INITIATIVE: Provided support to the NOAA-N launch...received operational handover 21 days after
 - PROJECT MANAGEMENT INFORMATION: Completed on schedule with planned cost of \$425K. This was the fourth in a series of five Polar-orbiting Operational Environmental Satellites with instruments that provide improved imaging and sounding capabilities.
 - IMPACT/BENEFIT: Provide global weather forecasting and monitor environmental events...data input to long-range climate and seasonal outlooks.

- INITIATIVE: Fairbanks CDA completed building renovations including roof repairs
 - PROJECT MANAGEMENT INFORMATION: Power House and facilities building roof leaks patched and repaired. The administrative area of the building had completely failed and was replaced...completed on schedule with a cost of \$30K.
 - IMPACT/BENEFIT: Prevented future mission threatening water leaks in the powerhouse, facilities building, and administrative areas.

- INITIATIVE: Fairbanks CDA completed participated in Buffer Zone Protection Plan with Alaskan Department of Homeland Security
 - PROJECT MANAGEMENT INFORMATION: Participated in the Buffer Zone Protection Plan in the 1st Quarter of FY2005 at the Alaska Department of Homeland Security with an associated cost of \$20K. AK DoHS applied for a \$75,000 Buffer Zone grant for the FCDAS to install the first Alaska Land Mobile Radio system (ALMR) site north of Fairbanks on the Stations' west collimation tower.
 - IMPACT/BENEFIT: FCDAS will be connected to the ALMR system...inter-operable 2-way radio standard used by the military; Federal non-DoD agencies; State agencies; and local first responders

NESDIS/Office of Satellite Data Processing and Distribution (OSDPD)

- INITIATIVE: ESPC contract awarded
 - PROJECT MANAGEMENT INFORMATION: OSDPD consolidated CEMSCS and SATEPS O & M contracts. Both had high overhead costs; they were merged into a single contract, awarded in Sep. 2005.
 - IMPACT/BENEFIT: Consolidation results in substantial cost savings. The new contract will be utilized to consolidate SATEPS and CEMSCS.

1.5.6. Mission Support: Administration and IT Services

1.5.6.1 Enterprise Architecture

NWS IT procurement and planning

- INITIATIVE: A procedure for planning and controlling NWS-wide IT spending was implemented to ensure IT procurements follow the enterprise architecture.
 - IMPACT/BENEFIT: More cost-effective acquisitions. In the new procedure, planning is more detailed and comprehensive and there is a control mechanism that holds FMC more accountable for the procurements.

NOAA Enterprise Architecture

- INITIATIVE: Comprehensive EA Planning and Performance.
 - PROJECT MANAGEMENT INFORMATION:
 - Completed Version 1.5 of NOAA Enterprise Architecture, dated August 31, 2005. Document is posted to NOAA CasaNOSA Web site at https://casanosa.noaa.gov/docman/?group_id=139 .
 - Achieved a score of 3.1 on OMB EA Assessment Framework Version 1.5 as part of Department of Commerce EA Submission.
 - IMPACT/BENEFIT: Confirmation of clear direction for further planning and design.

Administrative Services/Information Systems Management Office (ISMO)

- INITIATIVE: Coordination and consultation of key enterprise architecture planning tasks.
 - PROJECT MANAGEMENT INFORMATION:
 - Established a Section 508 Coordinator as liaison to the NOAA Section 508 Coordinator and to client offices.
 - Participated, as “Tiger Team” members in the NOAA Facilities Management Program to evaluate organizational components of NOAA Facilities and evaluate activities and processes within those components to determine areas for improvements and opportunities for internal reorganization.
 - Participated, as the technical expert and advisory organization to the NOAA Facilities, in the requirements development, solution design, vendor system evaluation, and procurement of a solution to provide a facilities management tool which will report on the condition of NOAA facilities.
 - IMPACT/BENEFIT: Cost-effective, regulations-compliant acquisitions.

1.5.6.2 Infrastructure

NESDIS Headquarters (HQ)

- INITIATIVE: Instituted Microsoft Office Products multi-year Enterprise Agreement
 - PROJECT MANAGEMENT INFORMATION: Contract established through DOC, first year cost to NESDIS of \$198,349.78.
 - IMPACT/BENEFIT: Single contract for all NOAA, PC desktop suites are maintained same at the version level, version level of products are consistent and IT support for desktops is easier.

- INITIATIVE: Continued technology refresh of the NESDIS Headquarters LAN installed Personal Computer (PC), Laptop, audio visual support and VTC base.
 - PROJECT MANAGEMENT INFORMATION: Expenditures of 34.5K on track
 - IMPACT/BENEFIT: New and improved IT applications and Operating Systems require enhanced IT infrastructure to adequately support the users and in some cases to run the applications at all.

- INITIATIVE: Continued technology refresh of the NESDIS Headquarters LAN backbone.
 - PROJECT MANAGEMENT INFORMATION: IT expenditures of 20K on track.
 - IMPACT/BENEFIT: New rack mounted servers provided better application service as well as allowing consolidation in the Computer Room and more efficient and safer use of the space and LAN switches upgraded to improve service, throughput and security.

- INITIATIVE: Support OMB Exhibit 300 process
 - PROJECT MANAGEMENT INFORMATION: The Exhibit 300 for NESDIS HQ was delivered on time
 - IMPACT/BENEFIT: Assure DOC and OMB acceptance of NESDIS 300s and thus funding for our projects.

- INITIATIVE: Establish IT Help Desk performance based contract to provide support for NESDIS Offices OSD, OCIO and IPO to replace previous expired contract
 - PROJECT MANAGEMENT INFORMATION: NESDIS HQ input helped see the contracted established in time.
 - IMPACT/BENEFIT: IT services support to maintain and improve IT infrastructure and operation insuring the continued ability of the offices to meet their production responsibilities.

- INITIATIVE: Better support questions from the customers of the NOAA Home Page including the public by improving the automated software tool used.
 - PROJECT MANAGEMENT INFORMATION: Select/implement better tool
 - IMPACT/BENEFIT: Decrease cost and management overhead while increasing customer support.

- INITIATIVE: Support NOAA PBA effort by including Information Technology areas.

- PROJECT MANAGEMENT INFORMATION: Provide IT area questions to the goal team members to obtain IT costs in the programs.
- IMPACT/BENEFIT: Make sure that the real costs of IT are covered in the budget exercises

NESDIS Office of Research and Applications (ORA)

- INITIATIVE: Executed a review of ORA's IT Infrastructure
 - PROJECT MANAGEMENT INFORMATION: Contracted ERT, Inc. to lead a week-long review of ORA's IT infrastructure with input from scientists and IT personnel from inside and outside ORA.
 - IMPACT/BENEFIT: Produced a 90-page report and 121 recommendations to improve ORA's current and future IT environment in terms of performance, administration, funding, efficiency, etc.

- INITIATIVE: Migrated Linux domain to Red Hat Enterprise
 - PROJECT MANAGEMENT INFORMATION: Migrated our 140 Red Hat Linux computers from the free version 9 to Red Hat Enterprise Linux.
 - IMPACT/BENEFIT: Red Hat 9 is not adequately supported, while Enterprise is stable and supported via automatic updates. This increases its security and manageability, thus saving system administration time, and therefore, money.

- INITIATIVE: Retired ORA's Solaris, HP-UX, and VMS computers
 - PROJECT MANAGEMENT INFORMATION: Retired ORA's remaining Solaris, HP-UX, and VMS operating systems computers.
 - IMPACT/BENEFIT: Reduces the number of operating systems needing administration, thus saving system administration time and money.

- INITIATIVE: Implemented centralized logging and log checking for ORA computers.
 - PROJECT MANAGEMENT INFORMATION: ORA Windows and UNIX/Linux computers now log their system messages to a central log server, which checks the logs for suspect activity.
 - IMPACT/BENEFIT: Having to scan only one log for suspect activity instead of one log on each of our 300+ computers is an obvious system administration time and money saving capability and increases security.

- INITIATIVE: Implemented spherical projection display of global data
 - PROJECT MANAGEMENT INFORMATION: Purchased and implemented a Magic Planet spherical projection system for display of global data; migrated global datasets to it.
 - IMPACT/BENEFIT: Its display at conferences, symposiums, open houses, schools, etc., increases public knowledge of ORA and NOAA's mission and accomplishments.

NESDIS Integrated Program Office (IPO)

- **INITIATIVE:** Integration of Citrix Metaframe which allows for remote access users the capability to connect into the Citrix applications server to access IPO resources (software) and access data with the same restrictions as if the user was physically connected.
 - **PROJECT MANAGEMENT INFORMATION:**
 - Cost for project: \$3,500.00.
 - Began and completed in February 2005.
 - **IMPACT/BENEFIT:** Enables remote access, either dial-up or VPN, gives users the capability to access large size data securely without the limitation of bandwidth.

- **INITIATIVE:** Implementation of a secure IPO LAN network extension at the California Northrop Grumman facility. This network extends IPO LAN access to the IPO users visiting Northrop Grumman facilities in California.
 - **PROJECT MANAGEMENT INFORMATION:** Cost for project: \$389.00. Began and completed in April 2005.
 - **IMPACT/BENEFIT:** Allows IPO users visiting the California facility for meetings the capability to access IPO resources through a secure IPsec tunnel.

- **INITIATIVE:** Upgrade of Voice OverInternet Protocol (VoIP) configuration change effort.
 - **PROJECT MANAGEMENT INFORMATION:** Cost for project: \$9,000.00 Began and completed in July 2005.
 - **IMPACT/BENEFIT:** The new release allows for a much greater scalability than the old system and supports a better and robust real-time broadcast system. In addition, enhanced security features have been added and implemented to ensure confidentiality and integrity of communication.

- **INITIATIVE:** Migration to Windows 203 Active Directory (AD) configuration change effort.
 - **PROJECT MANAGEMENT INFORMATION:** Cost for project: \$17,000.00. Began November 2004, completed August 2005.
 - **IMPACT/BENEFIT:** Provides for enhanced security and availability features. Windows AD focuses on a centralized distributed policy allowing for secure scalability. Additional security features have been added to ensure confidentiality and integrity. This feature includes better encryption (NTLM version 2), Encrypted File System.

- **INITIATIVE:** Rollout of Thunderbird: Mandated configuration change to comply with NOAA in establishing a centralized email system.
 - **PROJECT MANAGEMENT INFORMATION:** \$19,000 (initial capital investment)
 - **IMPACT/BENEFIT:** Centralized NOAA e-mail system

- INITIATIVE: Relocation of mailboxes for IPO mail server to NOAA Mail Operation Center: Mandated configuration change to comply with NOAA in establishing a centralized email system.
 - PROJECT MANAGEMENT INFORMATION: No additional cost required.
 - IMPACT/BENEFIT: Centralized NOAA e-mail system.

NWS Active Directory Migration

- INITIATIVE: Replace the current, obsolete, network operating system with Active Directory (AD).
 - PROJECT MANAGEMENT INFORMATION: Initiated extensive preparation for the replacement: AD will be deployed in SSMC2 in 10/2005.
 - IMPACT/BENEFIT: Enables central deployment and enforcement of security policies and the implementation of remote desktop management.

NOAA Marine & Aviation Operations

- INITIATIVE: Upgrade of NMAO IT infrastructure.
 - PROJECT MANAGEMENT INFORMATION: Technology was refreshed as a matter of planning instead of an unplanned reaction to equipment failure or obsolescence.
 - Windows NT4 servers were retired and Windows 2003 servers are the current standard in NMAO. A significant effort was expended in migrating applications and user accounts to the new environment.
 - User workstation systems were upgraded to the NMAO standard Windows XP Pro operating system.
 - Implemented Microsoft Active Directory NMAO-wide, unifying NMAO and sharing resources. Coordinated with other NOAA Line Offices eliminating duplication of effort, ensuring consistency, and compatibility, which will enable a possible NOAA wide implementation in the future.
 - Aircraft Operations Center completed implementation of the Microsoft SharePoint Services on Windows 2003 SharePoint Portal Server. This will serve as a model for the NMAO enterprise.
 - A "Virtual Commissioned Personnel Center on line" was rolled out which allows individual NOAA Corps officers to review their Official Personnel records anywhere at any time in a secure environment. Errors and omissions now can be corrected in a timely manner prior to scheduled Boards of Review.
 - A NMAO Intranet was posted on the NOAA web farm. This site is organized by function not by organization and provides common answers to common questions throughout NMAO.
 - Four major NMAO components, Headquarters, Commissioned Personnel Center, Marine Operations Center-Atlantic, and Aircraft Operations Center, consolidated their eMail to the NOAA consolidated eMail server in Silver Spring.
- IMPACT/BENEFIT: Cost-effective desktop and communications improvements.

NOAA Help Desk Consolidation

- INITIATIVE: Preliminary analysis and planning for consolidating help desks within NOAA.
 - PROJECT MANAGEMENT INFORMATION: NOAA IT Services Committee managed.
 - IMPACT/BENEFIT:
 - Cost avoidance by eliminating multiple contracts
 - Elimination of redundant services
 - Consistent delivery of service across NOAA

NOAA High Performance Computing

- INITIATIVE: Acquire the next generation of R&D HPC resources.
 - PROJECT MANAGEMENT INFORMATION:
 - Issued RFP for R&D HPCS – Jan 2005
 - Received Initial Proposals - May 2005
 - Determined Competitive Range – June 2005
 - Held Live Test demonstrations – July 2005
 - Received Revised Proposals – August 2005
 - Held Vendor Discussions and received BAFOs – September 2005
 - IMPACT/BENEFITS: Significant progress toward acquisition and improved high performance computing capacity.

NOAA-Wide Research

Department of Commerce RedHat BPA

- INITIATIVE: Establishment of an enterprise-wide acquisition vehicle for purchasing RedHat Linux product/service entitlements.
 - PROJECT MANAGEMENT INFORMATION:
 - Cost: NOAA May 2005 renewals \$470,071; subsequent purchasing \$2,079,991, which now includes other Departmental Operating Units.
 - Schedule: Awarded May 2005, 3 year period of performance, quarterly bulk buys
 - Performance: no administrative processing delays – licensing entitlements are activated as soon as the order is placed (gov't purchase card can be used; patches can be downloaded online).
 - IMPACT/BENEFITS: Economies of scale, streamlined acquisition process, alignment with OMB/GSA SmartBUY initiative

Administrative Services/Information Systems Management Office (ISMO)

- INITIATIVE: Maintenance and upgrade of ISMO systems.
 - PROJECT MANAGEMENT INFORMATION:
 - Added 250KVa generator to lease to avoid ITC system shutdown due to power loss.
 - Upgraded Cisco routers for the WAN and the ITC data center.
 - The Power Distribution Unit (PDU) was upgraded at the ITC to provide greater capacity and future expansion.

- ITC IT Support services contract was recompleted and awarded.
- Grants Online hardware was deployed at the ITC.
- Acquired two H-P ES80 systems to improve performance and concurrent user support Production CBS and CBS Data Warehouse.
- Installed Sun V880s and V240s to replace CBS and multi-application servers.
- Acquired three Sun V490s to upgrade CPCS E3500 servers and provide greater concurrent user support and availability.
- Acquired servers to support TIBCO and CCR applications.
- Upgraded CBS OLTP databases from Oracle 7.3.4 to Oracle 9i.
- Upgraded CBS data warehouse databases from Oracle 8.1.7 to Oracle 9i.
- Completed multiple upgrades of the Oracle 9iAS application server software used for NOAA Bankcards servers.
- Migrated CBS databases from legacy RAID file systems to EVA virtualized storage arrays while increasing storage to 3 terabytes.
- Acquired 10 terabytes of SAN-based storage for CBS and added SAN-attached 8-drive SDLT tape library for improved system backups in significantly shorter period.
- Completed the design, development, and implementation of the NOAA Speech Tracking and Retrieval System (NSTAR) for the NOAA Decision Coordination Office (DCO).
- Completed the design, development, and implementation of the Publications Tracking Database System for the NOAA Decision Coordination Office (DCO) for the management, information retrieval, and location identification of Publications maintained within the DCO.
- Completed the design, development, and implementation of the Future Significant Actions Database for the NOAA Decision Coordination Office (DCO), to log, track, report, and maintain a list of upcoming activities and actions taking place by NOAA upper management and NOAA Line Office senior managers.
- Completed the requirements development, system design, and system prototype development of the “Cash-In-Your-Account” processing web application in support of Workforce Management.
- Completed enhancements to the NOAA ELearning processes for compatibility with changed DOC and NOAA ELearning agreements as described by NOAA Workforce Management.
- Provided technical consulting services to the NOAA Acquisitions in the evaluation and procurement of the Appian Procurement Commercial Off-the-Shelf (COTS) software product for Advanced Acquisition Planning.
- Provided technical consulting services to the NOAA PA&E in the contractor re-engineer of the Program Information Reporting System (PIRS).
- Completed the deployment of approximately 50 new WebCIMS users throughout NOAA.
- Completed efforts, working with the NOAA Table of Organization (TO) contractor, to include NOAA Corp data in the NOAA TO processing and

- to implement the updated software version.
- IMPACT/BENEFIT: Enhanced capability, improved functioning and increased capacity of systems.

NOAA Web Presence

- INITIATIVE: Creation of a unified environment to improve NOAA's internal and external Web communications to meet mission goals.
 - PROJECT MANAGEMENT INFORMATION:
 - Cost: \$55,396 (annual maintenance for Stellent Content Server and related products)
 - Schedule: Accomplishments were met in the 3rd quarter of FY2006, projects will continue to develop as the Web program matures.
 - Performance: Created a unified prototype NOAA Intranet site using a content management system (CMS) for supporting infrastructure.
 - Revised the following NOAA Web Directives: Department of Commerce Web Policies Directive, Web Content Management Directive, and the Provision of Internet Services Directive. Suspended the Common Look & Feel Directive until revised style guidance, in-line with the new OneNOAA Web direction is in place. Removed the Web Server Inventory Directive.
 - NOAA's Web Directives are undergoing continuous review to ensure they are inline with other mandates as well as aiding the implementation success of NOAA Web transformation projects as they unfold.
 - Created a Web Governance Structure, separating management and oversight for information technology (Infrastructure / Architecture / Security) and communications (content management & coordination).
 - The Governance structure will provide a mechanism for properly aligning and organizing the human aspect of our Web resources. Separating content and infrastructure provides a strong environment to support ongoing internal and external Web initiatives by removing Web content and communications management from IT and beginning to integrate it into NOAA's business processes, thus taping subject matter experts to contribute content to the right customer at the right time without duplication or conflict within the organization
 - IMPACT/BENEFITS: NOAA employees execute groundbreaking science, regulatory, and development programs cooperating with partners at locations throughout the globe. The Intranet prototype presents a single unified vision to NOAA employees, organizes and simplifies access to internal information for NOAA employees, and maximizes time-to-value by rapidly deploying a solution in a phased approach that provides immediate and visible results.

NOAA E-mail Server Consolidation

- **INITIATIVE:** NOAA is working to move all end-user email boxes from approximately fifty organizationally and geographically distributed email servers to a system of no more than five centrally managed, highly available servers.
 - **PROJECT MANAGEMENT INFORMATION:** At least 4000 email boxes will be moved to the new system by Q4 FY2006, and 5-10 servers will be eliminated. The cost to provide new hardware and move 4000 mailboxes is approximately \$160k.
 - **IMPACT/BENEFIT:** Email will be provided more reliably and consistently for less overall cost. Fewer ingress and egress points and the ability to implement security and other issues in a reduced amount of time will provide better security and easier Spam filtering.

NOAA/Next generation Internet Protocol (IPv6)

- **INITIATIVE:** NOAA is working to prepare its computing and network infrastructure to support the IPv6.
 - **PROJECT MANAGEMENT INFORMATION:** NOAA will compile a comprehensive inventory of existing computing and network systems by Q4 FY06. A preliminary implementation plan will be developed by Q2 FY2006. The estimated cost for compiling the inventory is at least \$100k. The estimated cost of the preliminary implementation plan is approximately \$10k.
 - **IMPACT/BENEFIT:** Positioning NOAA to accommodate emerging technologies is critical for scientific organizations. NOAA would not be able to provide critical data to clients worldwide if it was not IPv6 ready when the world implements this standard. Many of the world's nations will be dependent on IPv6 early in its implementation.

NOAAnet

- **INITIATIVE:** NOAA will complete detailed target architecture of an integrated network infrastructure to interconnect all NOAA sites. The NOAA CIO Council must approve this target upon its completion.
 - **PROJECT MANAGEMENT INFORMATION:** NOAA will migrate NWS national and regional networks to the new system. NOAAnet will also be integrated into regional campus and metropolitan networks and a network for the CLASS system will be built using the NOAAnet infrastructure. The cost of this project is difficult to estimate until after the completion of the detailed target architecture.
 - **IMPACT/BENEFIT:** A single network infrastructure will provide more consistent and reliable services as well as better overall security. Greater bandwidth will be provided for equal or less cost than legacy networks. Consistency through the network will in itself justify this initiative, as it will provide NOAA with a modern, flexible, and manageable network infrastructure that will continue to accommodate up-to-date security practices and dissemination tools.

Spam Filtering

- **INITIATIVE:** NOAA will evaluate optional Spam services and determine if they provide NOAA with the ability to improve e-mail Spam filtering enough to satisfy all the NOAA expectations.
 - **PROJECT MANAGEMENT INFORMATION:** NOAA messaging staff will provide recommendations to the CIO council for obtaining optional services and/or evaluating other solutions. Recommendations may also be made to better manage the expectations of end users and management. This project is estimated to cost approximately \$40k.
 - **IMPACT/BENEFIT:** Currently the perception is that the NOAA Spam filtering system does not meet NOAA requirements. The impact of this project is primarily improved convenience and less wasted time for NOAA staff.

Public Law 16-554, Section 515, Information Quality (IQ)

- **INITIATIVE:** Response to OMB and DOC requirements for Peer Review of Influential Scientific Information (ISI)
 - **PROJECT MANAGEMENT INFORMATION:** The Department of Commerce (DOC) Office of the Chief Information Officer has established a unified peer review agenda for all DOC Operating Units through its Information Quality (IQ) web site, at http://www.osec.doc.gov/cio/oipr/info_qual.html. The initial agenda was posted there on June 16, 2005. The Department is now preparing to update the site to include all ISI by December 16.

NOAA:

- Responded to two Requests for Correction
 - automated weather forecasts provided by telephone
 - turtle counts in, e.g., jeopardy opinions
- Implemented new OMB Peer Review Bulletin (PRB) requirements
- Conducted training on peer review plans
- Developed data base and web site (at DOC) for peer review information and reporting
- Identified 35 ISI and posted plans for four highly influential scientific assessments (HISAs) for first bi-annual report, June 16, 2005
- For first reporting period, ISI plans did not have to be posted. Both HISAs and ISI are subject to the Peer Review Bulletin as of June 16, 2005, but ISI are not subject to the planning requirements until December 16, 2005. Hence, the initial set of ISI was for internal use and tracking and was not posted.
- No new funds used.
- **IMPACT/BENEFIT:** Considerable impact on staff time in all affected Line Offices. Ultimately will improve information quality.

Paperwork Reduction Act (PRA)

- **INITIATIVE – PRA website update**
 - **PROJECT MANAGEMENT**(steps in order of priority and completion):

- All approved information collection (IC) submissions now posted; this site updated weekly.
 - General guidance and complete instructions for IC request submissions, revised and amplified.
 - Regulatory requirements contained in approved ICs now current; to be updated monthly.
 - IMPACT/BENEFITS: A current and much improved resource for IC sponsors is giving these program staff much more control over the quality of their submissions.
- INITIATIVE – Improved IC request review process
 - PROJECT MANAGEMENT:
 - Instituted pre-review of all IC submissions by NOAA PRA Clearance Officer before finalization at line office level, with sponsor cc'ing Clearance Officer on submission to line office.
 - PRA Clearance Officer developed detailed tracking spreadsheets and updated daily
 - IMPACT/BENEFITS: NOAA was able to track all PRA-related documents efficiently and to focus effectively on rule-related IC requests. All rule-related ICs approved on schedule so that final rules could be published on time: 20 approved during FY2005.

1.5.6.3. IT Security

NESDIS Headquarters (HQ)

- INITIATIVE: New C&A packages for NESDIS National Critical (NC) systems
 - PROJECT MANAGEMENT INFORMATION: C&A packages met DOC muster
 - IMPACT/BENEFIT: Improve IT Security baseline and satisfy IG's concerns
- INITIATIVE: Work at behest of NOAA OCIO Council in Working Group under the NOAA IT Security committee to find a Patch Management tool for NOAA based on previously developed requirements, field an RFQ and procure tool set in FY2005
 - IMPACT/BENEFIT: Deploying a single tool across NOAA providing for a consistent application of patches as well as reporting. In addition an enterprise tool reduces cost and assures that all required patches are installed, which improves the IT Security posture of NESDIS as a whole and improves governance by the delivery of uniform reports

NESDIS/Office of Research and Applications (ORA)

- INITIATIVE: Implemented PatchLink patch reporting/installation software
 - PROJECT MANAGEMENT INFORMATION: Implemented PatchLink patch reporting and installation software on our computers. The licenses were purchased by NESDIS.

- IMPACT/BENEFIT: Allows central monitoring and installation of (especially security) patches on our Windows and Red Hat Linux computers. This increases security and the centralization saves system administration time and money.

NESDIS/Office of Satellite Operations (OSO)

- INITIATIVE: Ground Systems and NSOF IT security planning
 - PROJECT MANAGEMENT INFORMATION: The addition of Patch Management, Intrusion Detection and Harris Stat systems was completed for the GOES, POES and DMSP ground systems. The Consolidated Workstation project for all OSO operations programs was moved to the testing phase. Planning for the SOCC Suitland NSOF move was completed.
 - IMPACT/BENEFIT: Greater IT security controls have been implemented. The continued development of the CWS system will improve IT security through tracking of individual accounts and improve reliability through the use of state of the art equipment. The planning of the NSOF move will insure program reliability during the transition phase.

NESDIS/ Integrated Program Office (IPO)

- INITIATIVE: Integration of an Intrusion Prevention System (IPS) for Security efforts.
 - PROJECT MANAGEMENT INFORMATION: Cost for project: \$23,000.00. Began November 2004, completed August 2005.
 - IMPACT/BENEFIT: Provides the capability to monitor, detect, and prevent malicious ingress/egress traffic in real-time.

- INITIATIVE: Completed required security training for all IT personnel performing security roles.
 - PROJECT MANAGEMENT INFORMATION: Cost for project: \$15,000.00. Ongoing security activity.
 - IMPACT/BENEFIT: Training of IT staff who have root access or of staff performing security functions must be provided to ensure and enforce government security regulations.

- INITIATIVE: Implemented Patchlink – A Patch and asset management tool to deploy and enforce patch management process.
 - PROJECT MANAGEMENT INFORMATION: Cost: \$4,500.00. Began and completed.
 - IMPACT/BENEFIT: The patch management solution allows for the distribution and maintenance of new released patches and hot fixes for deployment across a system.

NOS Certification and Accreditation

- INITIATIVE: Completion of C&A on all mission critical systems.
 - PROJECT MANAGEMENT INFORMATION: Completed: performed thorough risk assessments and controls testing; updated policies, plans and procedures.
 - IMPACT/BENEFIT:
 - Compliance with FISMA requirements

- Improved security of systems by identifying and mitigating vulnerabilities
- Increased awareness by managers of importance of IT security
- Improved policies, plans and procedures

NWS IT Security

- INITIATIVE: Strengthen IT Security systems and operations:
 - PROJECT MANAGEMENT INFORMATION:
 - Completed IT security certification and accreditation for four National Critical systems: AWIPS, NCEP Central Operations, Telecom Gateway, and Space Environment Center.
 - Linux patch management: A Red Hat solution has been implemented to provide strong configuration management, software distribution, and patch management
 - Security monitoring: Use a central console to apply active and passive vulnerability scans for SSMC2, the NWSTG, and several regions
 - SSMC2 security: SSMC2 had 9 legacy Ethernet subnets on the Open Campus Network, which is not protected by NWS enterprise firewalls. Many compromised systems were among those that were placed there. As of the end of FY2005, the IT security staff has relocated 5 of these 9 subnets behind the enterprise firewalls and the remaining four will be relocated before the end of 2005.
 - IMPACT/BENEFIT: Significantly improved maintenance and preventative capacity of IT security.

Section 2, Financial Summary

2.1 Financial Summary of NOAA's IT Expenditures.

The following table shows NOAA IT expenditures as reported using the OMB Exhibit 53 template.

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
Agency Total IT Investment Portfolio		521.20067	552.395	571.029						150.33	155.58	161.477	370.737	396.815	408.777		
Part 1. IT Systems by Mission Area		411.245	433.248	447.466						131.889	137.416	142.869	279.356	295.832	304.597		
Financial Management		8.203	9.463	11.82005						2.165	3.085	5.7	6.038	6.378	6.12005		
NOAA/OCIO/ Financial Management IT Operations	This system provides the central computing services for NOAA financial and administrative activities.	7.275	8.535	10.93			50	10		2.075	3.085	5.7	5.2	5.45	5.23	55	1
NOAA ORF 02006-48-1450		7.275	8.535	10.93						2.075	3.085	5.7	5.2	5.45	5.23		
Funding Source Subtotal		7.275	8.535	10.93						2.075	3.085	5.7	5.2	5.45	5.23		
NOAA/OCIO/ NOAA Non-Core CBS Financial Management System (PCS)	In addition to DOC CBS, NOAA uses its non-core CBS financial system module, Permanent Change Station (PCS) in accordance with departmental guidelines.	0.928	0.928	0.875			100	3		0.09	0	0	0.838	0.928	0.875	55	1
NOAA ORF 02006-48-1450		0.928	0.928	0.875						0.09	0	0	0.838	0.928	0.875		
BIS: Operations and		0	0	0						0	0	0	0	0	0		

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
Administration 02006-30-0300																	
Funding Source Subtotal		0.928	0.928	0.875						0.09	0	0	0.838	0.928	0.875		
NOAA - Weather and Water		307.134	322.043	347.152						115.707	119.62005	120.434	191.427	202.438	226.718		
NOAA/NWS/Advanced Weather Interactive Processing System	AWIPS is a nationwide interactive computer and communications system that integrates all meteorological, hydrologic, satellite, and weather radar data that enables the forecaster to prepare and issue more accurate and timely forecasts and warnings.	49.403	50.435	50.435	202	70	0	3	5	12.708	12.894	12.894	36.695	37.541	37.541	55	1
NOAA PAC 02006-48-1460		12.708	12.894	12.894						12.708	12.894	12.894	0	0	0		
NOAA ORF 02006-48-1450		36.695	37.541	37.541						0	0	0	36.695	37.541	37.541		
Funding Source Subtotal		49.403	50.435	50.435						12.708	12.894	12.894	36.695	37.541	37.541		
NOAA/NWS/Next Generation Weather Radar (NEXRAD) System Product Improvement	The objectives of the NEXRAD Product Improvement (NPI) Program are to apply advancements in radar meteorology and information technology to improve the performance of the nation's weather radar network.	10.665	8.46	8.46	202	69	0	2		10.665	8.46	8.46	0	0	0	0	1

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
NOAA PAC 02006-48-1460		10.665	8.46	8.46						10.665	8.46	8.46	0	0	0		
Funding Source Subtotal		10.665	8.46	8.46						10.665	8.46	8.46	0	0	0		
NOAA/NWS/ NCEP Weather and Climate Operational Supercomputer Systems (WCOSS Primary and Backup)	The NOAA NCEP Weather & Climate Supercomputer Systems (Primary and Backup) produces environmental forecasts and assimilate data used to execute the numerical models that form the basis for all routine weather and climate forecasts produced in the US.	26.368	26.368	20.568	202	70	0	1	5	0	0	0	26.368	26.368	20.568	55	1
NOAA PAC 02006-48-1460		26.368	26.368	20.568						0	0	0	26.368	26.368	20.568		
Funding Source Subtotal		26.368	26.368	20.568						0	0	0	26.368	26.368	20.568		
NOAA/NWS/ National Weather Service Telecommunication Gateway System (Legacy, Replacement, and CIP)	The NWS Telecommunications Gateway disseminates (message-switching services) weather observations and guidances to a national and international community of customers. The Gateway services this customer base in a near-real-time operational	12.936	11.071	13.684			0	4	4	4.956	1.091	0	7.98	9.98	13.684	25	1

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status	
	environment.																	
NOAA ORF 02006-48-1450		10.46	10.571	13.184						2.48	1.091	0	7.98	9.48	13.184			
NOAA PAC 02006-48-1460		2.476	0.5	0.5						2.476	0	0	0	0.5	0.5			
Funding Source Subtotal		12.936	11.071	13.684						4.956	1.091	0	7.98	9.98	13.684			
NOAA/NWS/ NOAA Weather Radio (NWR) All Hazards Weather Network (NAHWN) aka All Hazards Emergency Message Collection System (HazCollect)	This project is to automate the collection and dissemination of non-weather civil-emergency messages over NOAA Weather Radio (NWR) and to quickly and securely authenticate messages received by emergency managers.	0	0	0	201	68	0	55	5	0	0	0	0	0	0	0	0	1
NOAA PAC 02006-48-1460		0	0	0						0	0	0	0	0	0			
Funding Source Subtotal		0	0	0						0	0	0	0	0	0			
NOAA/NWS/ National Air Quality Forecast Capability	This proposal is to implement NOAA Air Quality forecasting operationally.	4.65	6.79	6.79	202	70	0	4.5		4.12	5.43	4.31	0.53	1.36	2.48	55	1	
NOAA ORF 02006-48-1450		4.65	6.79	6.79						4.12	5.43	4.31	0.53	1.36	2.48			
Funding Source Subtotal		4.65	6.79	6.79						4.12	5.43	4.31	0.53	1.36	2.48			

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
NOAA/NWS/NCEP Weather and Climate Computing Infrastructure Services (WCCIS)	The NOAA NWS NCEP Weather and Climate Computing Infrastructure Services (WCCIS) provide support resources for (a) weather and climate forecasting capabilities and (b) operational model development for forecasts and warnings.	12.79	14.825	15.555	202	70	0	27	4,5	0	0	0	12.79	14.825	15.555	55	1
NOAA ORF 02006-48-1450		12.79	14.825	15.555						0	0	0	12.79	14.825	15.555		
Funding Source Subtotal		12.79	14.825	15.555						0	0	0	12.79	14.825	15.555		
NOAA/NWS/Office of Science and Technology - Other	IT resources are used for distribution of upper air data. NWS replacement system, Radiosonde Replacement System (RRS), provides upper-air-weather observations. RRS is a 1 to 1 replacement of NWS' current radiosonde system for technology obsolescence.	0.44	0	0	202	70	0	0		0.44	0	0	0	0	0	0	4
NOAA PAC 02006-48-1460		0.44	0	0						0.44	0	0	0	0	0		
NOAA ORF 02006-48-1450		0	0	0						0	0	0	0	0	0		
Funding Source Subtotal		0.44	0	0						0.44	0	0	0	0	0		

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
NOAA/NWS/ NWS Office of Hydrologic Development	Nationwide water resource forecasting capability, enhanced short-term predictions of river levels and longer-term probabilistic forecasts.	2.297	4.331	4.031	202	70	0	4		0.839	2.375	2.075	1.458	1.956	1.956	55	1
NOAA ORF 02006-48-1450		2.297	4.331	4.031						0.839	2.375	2.075	1.458	1.956	1.956		
Funding Source Subtotal		2.297	4.331	4.031						0.839	2.375	2.075	1.458	1.956	1.956		
NOAA/NWS/ Office of Operational Systems - Other	IT investments are for NOAA Weather Wire System, International Satellite Communication System, IT support services for weather data received from data buoys, and IT support for the Integrated Ocean Observing System Data Assembly Center.	4.8	4.8	6.4	202	70	0	6.5		0	0	0.5	4.8	4.8	5.9	55	1
NOAA ORF 02006-48-1450		4.8	4.8	6.4						0	0	0.5	4.8	4.8	5.9		
Funding Source Subtotal		4.8	4.8	6.4						0	0	0.5	4.8	4.8	5.9		
NOAA/NWS/ NERON- NOAA Environmental Real-time Observations Network (NERON)	IT resources for NERON are used to ingest, quality control and assure data, produce metadata and maintenance metrics and acquire and	0.865	4.277	4.277	202	70	0	1		0.724	3.746	2.649	0.141	0.531	1.628	0	1

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
	ensure continuous communications of NERON sites for near real-time temperature and precipitation data.																
NOAA ORF 02006-48-1450		0	0	0						0	0	0	0	0	0		
NOAA PAC 02006-48-1460		0.865	4.277	4.277						0.724	3.746	2.649	0.141	0.531	1.628		
Funding Source Subtotal		0.865	4.277	4.277						0.724	3.746	2.649	0.141	0.531	1.628		
NOAA/NWS/ NWS Regions & Field	IT resources for weather and water information and warning services are used by the NWS Regions & Fields, the single points of access, to federal, state and local governments and emergency manager coordinators in every state.	21.9	21.9	21.9	202	70	0	10		0	0	0	21.9	21.9	21.9	55	2
NOAA ORF 02006-48-1450		21.9	21.9	21.9						0	0	0	21.9	21.9	21.9		
Funding Source Subtotal		21.9	21.9	21.9						0	0	0	21.9	21.9	21.9		
NOAA/NESDIS/ GOES Ground System	GOES ground system monitors and controls NOAA's Geostationary environmental satellites.	17.23	18.727	17.239	202	70	0	4	5	0.55	0.2	0	16.68	18.527	17.239	55	1
NOAA PAC 02006-48-1460		17.23	18.727	17.239						0.55	0.2	0	16.68	18.527	17.239		

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
Funding Source Subtotal		17.23	18.727	17.239						0.55	0.2	0	16.68	18.527	17.239		
NOAA/NESDIS/ POES Ground System	An FY2006 Initiative, POES ground system monitors and controls NOAA's polar-orbiting operational environmental satellites. IT hardware/softw are upgrades are underway for future satellites.	15.277	14.727	13.841	202	70	0	4		0	0	0	15.277	14.727	13.841	55	1
NOAA PAC 02006-48-1460		15.277	14.727	13.841						0	0	0	15.277	14.727	13.841		
Funding Source Subtotal		15.277	14.727	13.841						0	0	0	15.277	14.727	13.841		
NOAA/NESDIS/ Office of Satellite Data Processing and Distribution (OSDPD) Systems CIP	The NESDIS CIP project will provide a backup facility to the primary facility, Environmental Satellite Processing Center (ESPC), that is the central processing system for environmental satellite data.	1.559	2.75	2.73			0	4.4	4	1.559	2.75	1.956	0	0	0.774	0	1
NOAA PAC 02006-48-1460		1.559	2.75	2.73						1.559	2.75	1.956	0	0	0.774		
Funding Source Subtotal		1.559	2.75	2.73						1.559	2.75	1.956	0	0	0.774		
NOAA/NESDIS/ Satellite Operations Control Center Command and Data Acquisition (SOCC/CDA)	This investment used by the Office of Satellite Operations (OSO) to command and control the	23.542	26.102	28.166	202	70	0	3.9		0	0.8	1.6	23.542	25.302	26.566	55	1

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
	POES and GOES satellites, to track the satellites, and to acquire their data.																
NOAA ORF 02006-48-1450		23.542	26.102	28.166						0	0.8	1.6	23.542	25.302	26.566		
Funding Source Subtotal		23.542	26.102	28.166						0	0.8	1.6	23.542	25.302	26.566		
NOAA/NESDIS/ Global Earth Observing Integrated Data Environmental (GEO IDE)	Development of a NOAA Global Earth Observing Integrated Data Environment to provide long term-management of environmental data and interoperability environmental information systems, leveraging the benefits of existing data management systems.	0	0	2			0	4		0	0	2	0	0	0	0	4
NOAA PAC 02006-48-1460		0	0	2						0	0	2	0	0	0		
Funding Source Subtotal		0	0	2						0	0	2	0	0	0		
NOAA/NESDIS/ NPOESS Data Exploitation (NDE)	The NDE project will develop new products and infrastructure to exploit observations from the National Polar-orbiting Operational Environmental Satellite System (NPOESS)	0	4.5	4.5	202	69	0	3		0	4.5	4.5	0	0	0	0	1

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
	satellites and their predecessor, the NPOESS Preparatory Project (NPP) satellite.																
NOAA PAC 02006-48-1460		0	4.5	4.5						0	4.5	4.5	0	0	0		
Funding Source Subtotal		0	4.5	4.5						0	4.5	4.5	0	0	0		
NOAA/NESDIS/NPOESS Ground System	IT support for the Nation's civil and military polar-orbiting operational meteorological satellite system into a single national entity capable of satisfying both civil and national security requirements for space-based remotely sensed environmental data.	74.71	72.811	68.37	201	68	0	4		74.71	72.811	68.37	0	0	0	0	1
NOAA PAC 02006-48-1460		74.71	72.811	68.37						74.71	72.811	68.37	0	0	0		
Funding Source Subtotal		74.71	72.811	68.37						74.71	72.811	68.37	0	0	0		
NOAA/NESDIS/Environmental Satellite Processing Center (ESPC)	This investment is for the consolidation of two environmental processing systems for Polar (CEMSCS) and GOES (SATEPS) satellite data, into one central	14.267	13.634	15.563	202	70	0	4.3		4.21	3.048	4.42	10.20057	10.586	11.143	25	1

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
	processing system for environmental satellite data, Environmental Satellite Processing Center (ESPC).																
NOAA ORF 02006-48-1450		4.847	5.102	5.37						0	0	0	4.847	5.102	5.37		
NOAA PAC 02006-48-1460		9.42	8.532	10.193						4.21	3.048	4.42	5.21	5.484	5.773		
Funding Source Subtotal		14.267	13.634	15.563						4.21	3.048	4.42	10.20057	10.586	11.143		
NOAA/OAR/ FSL - High Performance Computing and Communications	High performance computing resources to support describing and predicting the physical, chemical and biological makeup of the earth and its environment.	3.9	0	0	202	69	0	4		0.226	0	0	3.674	0	0	55	1
NOAA ORF 02006-48-1450		3.9	0	0						0.226	0	0	3.674	0	0		
Funding Source Subtotal		3.9	0	0						0.226	0	0	3.674	0	0		
NOAA/CIO/ NOAA R&D High Performance Computing System	High performance computing resources are used for weather and climate research in the development and use of sophisticated numerical models to predict and understand atmospheric and oceanic phenomena.	0	3.5	26.408	202	69	0	4.6		0	0	0	0	3.5	26.408	55	1

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
NOAA PAC 02006-48-1460		0	0	16.284						0	0	0	0	0	16.284		
NOAA ORF 02006-48-1450		0	3.5	10.124						0	0	0	0	3.5	10.124		
Funding Source Subtotal		0	3.5	26.408						0	0	0	0	3.5	26.408		
NOAA/NWS/Next Generation Weather Radar (NEXRAD) Operations and Maintenance - Ex53 DOC Funding	NEXRAD is NWS prime observation system for acquiring information about tornados & severe thunderstorms. IT resources are used in this doppler weather radar system, a tri-agency program of DOC, DOT, & DOD.	8.20054	8.20054	7.20054	202	70	0	4		0	0	0	8.20054	8.20054	7.20054	55	1
NOAA/NWS/Automated Surface Observing System (ASOS)	ASOS, the nation's primary surface weather observing network, supports aviation operations & weather forecasting. Replacing manual surface observation techniques, it provides improved efficiency to acquire & record surface atmospheric phenomena.	0.3	0.4	0.3	202	70	0	1		0	0.1	0	0.3	0.3	0.3	55	4

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
NOAA/NWS/Data Assimilation and Modeling	IT resources used to develop new methods for coupling atmosphere, ocean, land surface and cryosphere models which will enable the next generation of numerical forecast systems to be developed.	1.181	2.181	2.181	202	69	0	1		0	0	0	1.181	2.181	2.181		
NOAA/CAO/NOAA Center Weather and Climate Prediction (NCWCP) - Ex 53 (IT equipment)	This is for the IT component of the investment for the new construction of the NCWCP. The IT resources are to provide the critical IT and communications infrastructure in the NCWCP and will support parallel operations during the move.	0	1.4	6.7	202	70	0	10		0	1.4	6.7	0	0	0	0	1
NOAA - Climate		80.387	82.044	67.857						8.516	5.812	7.701	71.871	76.232	60.156		
NOAA/NESDIS/Comprehensive Large Array-data Stewardship System (CLASS)	The CLASS project will implement efficient management of high volumes (petabytes) of data and automate the means of data ingest, quality control and access.	10.92006	9.041	9.9	202	70	0	3.7		8.516	5.812	6.851	2.39	3.229	3.049	55	1
NOAA PAC		6.448	6.541	7.4						5.558	4.812	5.851	0.89	1.729	1.549		

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
02006-48-1460																	
NOAA: PAC B 02006-48-1460		2.958	1	1						2.958	1	1	0	0	0		
NOAA ORF 02006-48-1450		1.5	1.5	1.5						0	0	0	1.5	1.5	1.5		
Funding Source Subtotal		10.92006	9.041	9.9						8.516	5.812	6.851	2.39	3.229	3.049		
NOAA/NESDIS/ NOAA National Data Centers (NNDC)	The NOAA NESDIS National Data Centers have the ultimate responsibility for the long term-management and stewardship of the bulk of NOAA's data, in addition to environmental data collected by other Federal agencies, countries and research programs.	35.826	35.793	35.793	201	68	0	6.5		0	0	0	35.826	35.793	35.793	55	1
NOAA ORF 02006-48-1450		35.826	35.793	35.793						0	0	0	35.826	35.793	35.793		
NOAA PAC 02006-48-1460		0	0	0						0	0	0	0	0	0		
Funding Source Subtotal		35.826	35.793	35.793						0	0	0	35.826	35.793	35.793		
NOAA/OAR/ GFDL High Performance Computing System	GFDL's High Performance Computing resources are used for climate and weather research in the development and use of sophisticated numerical models to predict and	18.02005	20.994	0	202	69	0	0		0	0	0	18.02005	20.994	0	55	1

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
	understand atmospheric and oceanic phenomena.																
NOAA ORF 02006-48-1450		8.642	10.51	0						0	0	0	8.642	10.51	0		
NOAA PAC 02006-48-1460		9.363	10.484	0						0	0	0	9.363	10.484	0		
Funding Source Subtotal		18.02005	20.994	0						0	0	0	18.02005	20.994	0		
NOAA/OAR/NOAA Scientific Computing Support	Periodic technical refreshment of IT computing resources and associated IT maintenance and support services used to conduct short, mid and long term climate and weather research.	15.65	16.216	22.164	202	69	0	11		0	0	0.85	15.65	16.216	21.314	55	1
NOAA ORF 02006-48-1450		15.65	16.216	22.164						0	0	0.85	15.65	16.216	21.314		
NOAA PAC 02006-48-1460		0	0	0						0	0	0	0	0	0		
Funding Source Subtotal		15.65	16.216	22.164						0	0	0.85	15.65	16.216	21.314		
NOAA - Ecosystems		4.7	8.14	8.52						2.4	5.58	5.82	2.3	2.56	2.7		
NOAA/NMFS/Vessel Monitoring System	The Vessel Monitoring System (VMS) is a satellite based tool for monitoring control and surveillance of the 3.4 million mile jurisdiction of the NOAA Office for Law Enforcement.	4.18	7.6	8	204	77	0	5		2	5.21	5.56	2.18	2.39	2.44	25	2

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
NOAA/NMFS/ Fisheries Information System	Harmonization and integration of disparate state and federal information collection systems to enhance the ecosystems-based management of marine fisheries through improved data quality and management.	0.52	0.54	0.52	202	70	0	5		0.4	0.37	0.26	0.12	0.17	0.26	55	4
NOAA Commerce and Transportation		10.821	11.558	12.132						3.101	3.334	3.214	7.72	8.224	8.918		
NOAA/NESDIS/ Search and Rescue Satellite-Aided Tracking (SARSAT)	SARSAT system locates those in distress almost anywhere in the world at anytime. Its Mission Control Center processes the distress signal and alerts the appropriate search and rescue authorities to who is in distress and where they are located.	2.987	2.559	3.042	201	68	0	8		0.3	0.2005	0.525	2.687	2.509	2.517	55	1
NOAA PAC 02006-48-1460		0.525	0.075	0.55						0.3	0.2005	0.525	0.225	0.025	0.025		
NOAA ORF 02006-48-1450		2.462	2.484	2.492						0	0	0	2.462	2.484	2.492		
Funding Source Subtotal		2.987	2.559	3.042						0.3	0.2005	0.525	2.687	2.509	2.517		

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
NOAA/NOS/ Nautical Charting System	The Nautical Charting System (NCS) supports the production of essential navigation products that currently comprise a suite of 1000 paper and raster products and ultimately 1000 Electronic Navigational Charts (ENC).	2.187	3.035	2.744	203	73	0	10		0.942	1.533	1.519	1.245	1.502	1.225	55	1
NOAA ORF 02006-48-1450		2.187	3.035	2.744						0.942	1.533	1.519	1.245	1.502	1.225		
Funding Source Subtotal		2.187	3.035	2.744						0.942	1.533	1.519	1.245	1.502	1.225		
NOAA/NOS/ PORTS & NWLON	PORTS and NWLON programs have become tightly integrated. PORTS brought to NWLON the ability to collect data in real-time and NWLON brought to PORTS a well-established network of stations from which to gather water level data.	2.37	2.61	2.8	203	76	0	3		1.17	1	1.16	1.2	1.61	1.64	55	1
NOAA ORF 02006-48-1450		2.37	2.61	2.8						1.17	1	1.16	1.2	1.61	1.64		
Funding Source Subtotal		2.37	2.61	2.8						1.17	1	1.16	1.2	1.61	1.64		
NOAA/NOS/ Geodetic Support System	The Geodetic Support System processes data for the National Spatial Reference	1.155	1.07	1.088	203	76	0	5		0	0.01	0.01	1.155	1.2006	1.078	55	1

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
	System and geoid models. Plans are to expand to 1,000 Continuously Operating Reference Stations (CORS).																
NOAA ORF 02006-48-1450		1.155	1.07	1.088						0	0.01	0.01	1.155	1.2006	1.078		
Funding Source Subtotal		1.155	1.07	1.088						0	0.01	0.01	1.155	1.2006	1.078		
NOAA/nmao/ NOAA Marine and Aviation Operations	NOAA ships use IT resources to support data acquisition capabilities, which enable scientists and environmental managers to make decisions based on real-time data access and visualization.	2.122	2.284	2.458			0	2.8		0.689	0.741	0	1.433	1.543	2.458	55	
Part 2. IT Infrastructure and Office Automation		104.722	114.482	118.714						15.373	16.189	16.528	89.349	98.293	101.411		
NESDIS IT Infrastructure		5.2006	6.094	7.364						0	0	0	5.2006	6.094	7.364		
NOAA ORF 02006-48-1450 NESDIS		3.588	3.743	3.818						0	0	0	5.588	3.743	3.818		
NOAA PAC 02006-48-1460 NESDIS		1.472	2.351	3.546						0	0	0	1.472	2.351	3.546		
NWS IT Infrastructure		21.687	23.20057	22.751				13		1.614	1.549	2.122	20.073	21.508	20.629		
NOAA ORF 02006-48-1450 NWS		21.687	23.20057	22.751						1.614	1.549	2.122	20.073	21.508	20.629		
NOAA PAC 02006-48-1460 NWS		0	0	0						0	0	0	0	0	0		

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
NOS IT Infrastructure		22.419	23.54	24.813				19		5.231	4.694	4.975	17.188	18.846	19.838		
NOAA ORF 02006-48-1450 NOS		22.419	23.54	24.813						5.231	4.694	4.975	17.188	18.846	19.838		
NOAA PAC 02006-48-1460 NOS		0	0	0						0	0	0	0	0	0		
NMFS IT Infrastructure		25.807	25.807	25.807				5		2.581	2.581	2.503	23.226	23.226	22.529		
NOAA ORF 02006-48-1450 NMFS		25.032	25.032	25.032						2.5032	25.032	2.503	23.226	23.226	22.589		
NOAA PAC 02006-48-1460 NMFS		0	0	0						0	0	0	0	0	0		
NMFS Reimbursable		0.774	0.774	0.774						0	0	0.0774	0.7742	0.774	0.6967		
OAR IT Infrastructure		11.374	12.133	12.972				18		0	0	0	11.374	12.133	12.972		
NOAA ORF 02006-48-1450 OAR		9.67	9.723	10.501						0	0	0	9.67	9.723	10.501		
NOAA PAC 02006-48-1460 OAR		0.913	0.28	0.281						0	0	0	0.913	0.28	0.281		
OAR Reimbursable		0.79	2.129	2.189						0	0	0	0.79	2.129	2.189		
NMAO IT Infrastructure		1.042	2.098	2.272				13		0.262	0.63	0.674	0.78	1.468	1.598		
NOAA ORF 02006-48-1450 NMAO		1.042	2.098	2.272						0.262	0.63	0.674	0.78	1.468	1.598		
NOAA PAC 02006-48-1460 NMAO		0	0	0						0	0	0	0	0	0		
OCIO-ISMO IT Infrastructure		11	10.769	11.20058				1		5.685	4.595	4.765	5.315	6.174	6.293		
NOAA ORF 02006-48-1450 OCIO-ISMO		11	10.769	11.20058						5.685	4.595	4.765	5.315	6.174	6.293		
NOAA PAC 02006-48-1460 OCIO-ISMO		0	0	0						0	0	0	0	0	0		
OCIO-IT Telecom IT Infrastructure		4.572	5.15	5.819				10			0	0	4.572	5.15	5.819		

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
NOAA ORF 02006-48-1450 OCIO-Telecom		4.572	5.15	5.819							0	0	4.572	5.15	5.819		
NOAA PAC 02006-48-1460 OCIO-Telecom		0	0	0							0	0	0	0	0		
OCIO-Security IT Infrastructure		1.761	5.834	5.858				100			2.14	1.489	1.761	3.694	4.369		
NOAA ORF 02006-48-1450 OCIO-Security		1.761	5.834	5.858							2.14	1.489	1.761	3.694	4.369		
NOAA PAC 02006-48-1460 OCIO-Security		0	0	0							0	0	0	0	0		
Part 3. Enterprise Architecture & Planning		2.231	4.34	4.419						0.249	1.7	1.7	1.982	2.64	2.719		
NOAA/noaa systems/ NOAA- Wide Enterprise IT Architecture	IT resources are used to support NOAA-wide IT Architecture activities for strategic, operational and capital planning and investment management.	0.249	1.7	1.7			0	0		0.249	1.7	1.7	0	0	0		
NOAA/noaa systems/ NOAA- Wide Enterprise IT Planning	IT resources are used to support NOAA-wide IT Planning activities for strategic, operational and capital planning and investment management.	1.982	2.64	2.719			0	3		0	0	0	1.982	2.64	2.719		
Part 4. Grants Management		2.869	0.325	0.43						2.819	0.275	0.38	0.2005	0.2005	0.2005		
NOAA/OCIO/ NOAA Grants Back-End System Development	The NOAA-wide Grants back-end processing system consists of a web-based	2.869	0.325	0.43	22005	80	5	10		2.819	0.275	0.38	0.2005	0.2005	0.2005	55	2

Investment Title	Investment Description (limited to 255 characters)	PY 2005	CY 2006	BY 2007	Mode of Delivery (LoB)	Mode of Delivery (sub-function)	% Financial	% IT Security	HS Priority ID	DME (\$M) FY 2005	DME (\$M) CY 2006	DME (\$M) FY 2007	SS (\$M) FY 2005	SS (\$M) FY 2006	SS (\$M) FY 2007	Investment C&A Status	Project Mgt Qualification Status
	application that will interface with grants.gov for the "Find and Apply" functions.																
NOAA ORF 02006-48-1450		2.839	0.295	0.4						2.789	0.245	0.35	0.2005	0.2005	0.2005		
MBDA: Minority Business Development 02006-40-0201		0.03	0.03	0.03						0.03	0.03	0.03	0	0	0		
Funding Source Subtotal		2.869	0.325	0.43						2.819	0.275	0.38	0.2005	0.2005	0.2005		
Part 5. IT Grants to State and Locals		0	0	0						0	0	0	0	0	0		

Section 3, Management and System Initiatives

3.1 List of all NOAA's IT systems.

Investment Name	Template	Class	Investment Type	Rev.	Point of Contact	Last Updated
Commerce Enterprise IT Architecture	IT Investment BY2006	IT	Major Investment	0	Admin, System	6/27/2005 10:02
NOAA/NESDIS/ Comprehensive Large Array-data Stewardship System (CLASS)	IT Investment BY2007	IT	Major Investment	7	Smith, Natalie	11/8/2005 14:54
NOAA/NESDIS/ Environmental Satellite Processing Center (ESPC)	IT Investment BY2007	IT	Major Investment	7	Smith, Natalie	11/8/2005 10:18
NOAA/NESDIS/ Global Earth Observing Integrated Data Environmental (GEO IDE)	IT Investment BY2007	IT	Major Investment	1	Smith, Natalie	9/14/2005 11:2006
NOAA/NESDIS/ GOES Ground System	IT Investment BY2007	IT	Major Investment	7	Smith, Natalie	9/14/2005 11:2005
NOAA/NESDIS/ JASON-2	IT Investment BY2007	IT	Major Investment	0	Smith, Natalie	10/26/2005 11:35
NOAA/NESDIS/ NOAA National Data Centers (NNDC)	IT Investment BY2007	IT	Major Investment	7	Smith, Natalie	11/3/2005 14:59
NOAA/NESDIS/ NPOESS Data Exploitation (NDE)	IT Investment BY2007	IT	Major Investment	1	Smith, Natalie	9/14/2005 11:07
NOAA/NESDIS/ Office of Satellite Data Processing and Distribution (OSDPD) Systems CIP	IT Investment BY2007	IT	Major Investment	7	Smith, Natalie	9/14/2005 11:09
NOAA/NESDIS/ POES Ground System	IT Investment BY2007	IT	Major Investment	7	Smith, Natalie	9/14/2005 11:10
NOAA/NESDIS/ Satellite Environmental Processing System (SATEPS)	IT Investment BY2006	IT	Major Investment	2	Smith, Natalie	8/4/2005 10:32
NOAA/NESDIS/ Satellite Operations Control Center Command and Data Acquisition (SOCC/CDA)	IT Investment BY2007	IT	Major Investment	7	Smith, Natalie	9/14/2005 11:11
NOAA/NESDIS/ Search and Rescue Satellite-Aided Tracking (SARSAT)	IT Investment BY2007	IT	Major Investment	7	Smith, Natalie	11/9/2005 12:28
NOAA/NMFS/ NOAA Fisheries eRulemaking	IT Investment BY2007	IT	Major Investment	3	Admin, System	8/4/2005 14:49

Investment Name	Template	Class	Investment Type	Rev.	Point of Contact	Last Updated
NOAA/NOS/ Geodetic Support System	IT Investment BY2007	IT	Major Investment	7	Admin, System	9/14/2005 11:14
NOAA/NOS/ Nautical Charting System	IT Investment BY2007	IT	Major Investment	8	Admin, System	9/14/2005 11:15
NOAA/NOS/ PORTS & NWLON	IT Investment BY2007	IT	Major Investment	7	Admin, System	9/14/2005 11:16
NOAA/NWS/ Advanced Weather Interactive Processing System	IT Investment BY2007	IT	Major Investment	7	Admin, System	10/31/2005 13:01
NOAA/NWS/ National Air Quality Forecast Capability	IT Investment BY2007	IT	Major Investment	7	Admin, System	9/14/2005 11:30
NOAA/NWS/ National Weather Service Telecommunication Gateway (NWSTG) System (Legacy, Replacement, and CIP)	IT Investment BY2007	IT	Major Investment	7	Admin, System	10/26/2005 11:44
NOAA/NWS/ NCEP Weather and Climate Computing Infrastructure Services (WCCIS)	IT Investment BY2007	IT	Major Investment	7	Admin, System	9/14/2005 11:20
NOAA/NWS/ NCEP Weather and Climate Operational Supercomputer Systems (WCOSS Primary and Backup)	IT Investment BY2007	IT	Major Investment	7	Admin, System	11/9/2005 13:48
NOAA/NWS/ NERON- NOAA Environmental Real-time Observations Network (NERON)	IT Investment BY2007	IT	Major Investment	7	Admin, System	9/14/2005 11:25
NOAA/NWS/ Next Generation Weather Radar (NEXRAD) Operations and Maintenance	IT Investment BY2007	IT	Major Investment	6	Admin, System	9/1/2005 6:55
NOAA/NWS/ Next Generation Weather Radar (NEXRAD) System Product Improvement	IT Investment BY2007	IT	Major Investment	7	Admin, System	10/31/2005 12:21
NOAA/NWS/ NOAA Weather Radio (NWR) All Hazards Weather Network (NAHWN) aka All Hazards Emergency Message Collection System (HazCollect)	IT Investment BY2007	IT	Major Investment	7	Admin, System	10/31/2005 11:51
NOAA/NWS/ NWS Office of Hydrologic Development	IT Investment BY2007	IT	Major Investment	7	Admin, System	9/14/2005 11:28
NOAA/NWS/ NWS Regions & Field	IT Investment BY2007	IT	Major Investment	7	Admin, System	9/14/2005 11:29
NOAA/NWS/ Office of Operational Systems - Other	IT Investment BY2007	IT	Major Investment	7	Admin, System	9/14/2005 11:33
NOAA/NWS/old Office of Science and Technology, Other Systems	IT Investment BY2007	IT	Major Investment	6	Admin, System	9/2/2005 11:07

Investment Name	Template	Class	Investment Type	Rev.	Point of Contact	Last Updated
NOAA/OAR/ FSL - High Performance Computing and Communications	IT Investment BY2007	IT	Major Investment	7	Admin, System	9/14/2005 11:37
NOAA/OAR/ GFDL High Performance Computing System	IT Investment BY2007	IT	Major Investment	7	Admin, System	9/14/2005 11:38
NOAA/OAR/ NOAA Scientific Computing Support	IT Investment BY2007	IT	Major Investment	7	Admin, System	9/14/2005 11:38
NOAA/OCIO/ Financial Management IT Operations	IT Investment BY2007	IT	Major Investment	7	Admin, System	9/14/2005 11:39
NOAA/OCIO/ NOAA Grants Back-End System Development	IT Investment BY2007	IT	Major Investment	7	Admin, System	9/14/2005 11:40
NOAA/OCIO/ NOAA Non-Core CBS Financial Management System (PCS)	IT Investment BY2007	IT	Major Investment	7	Smith, Natalie	9/14/2005 11:40
NOAA/NESDIS/ NPOESS Ground System	IT Investment BY2007	IT	Major Investment Multi-Agency Joint Effort	7	Smith, Natalie	11/9/2005 12:51
DOC/NOAA/Grants Management Shared Service Center (SSC): A Grants Online response to OMB LOB	IT Investment BY2006	IT	Major IT Investment	5	Admin, System	2/17/2005 12:21
NOAA/NESDIS/Climate Database Modernization Program	IT Investment BY2005	IT	Major IT Investment	0	Admin, System	7/16/2004 9:16
NOAA/NWS/Weather and Climate Supercomputing Backup	IT Investment BY2007	IT	Major IT Investment	6	Admin, System	8/24/2005 6:44
NOAA/CIO/ Secure and Reliable Enterprise Information Services	IT Investment BY2007	IT	Non-Major Investment	3	Admin, System	7/28/2005 10:21
NOAA/NMAO/ NOAA Marine and Aviation Operations	IT Investment BY2007	IT	Non-Major Investment	7	Admin, System	9/14/2005 11:41
NOAA/NMFS/ Fisheries Information System	IT Investment BY2007	IT	Non-Major Investment	7	Admin, System	10/13/2005 13:40
NOAA/NMFS/ Vessel Monitoring System	IT Investment BY2007	IT	Non-Major Investment	7	Admin, System	10/14/2005 11:50
NOAA/noaa systems/ NOAA-Wide Enterprise IT Architecture	IT Investment BY2007	IT	Non-Major Investment	3	Admin, System	9/14/2005 11:42
NOAA/noaa systems/ NOAA-Wide Enterprise IT Planning	IT Investment BY2007	IT	Non-Major Investment	7	Admin, System	10/11/2005 12:04
NOAA/NWS/ Complete and Sustain NOAA Weather Radio	IT Investment BY2007	non-IT	Non-Major Investment	3	Admin, System	8/4/2005 14:53

Investment Name	Template	Class	Investment Type	Rev.	Point of Contact	Last Updated
NOAA/NWS/Data Assimilation and Modeling	IT Investment BY2007	IT	Non-Major Investment	7	Admin, System	9/14/2005 11:36
NOAA/NOAA systems/ NOAA-Wide Infrastructure	IT Investment BY2005	IT	Non-Major IT Investment	0	Admin, System	8/4/2005 14:49
NOAA/OCIO/ NOAA-Wide Information Technology Security	IT Investment BY2007	IT	Non-Major IT Investment	3	Admin, System	8/10/2005 8:49
NOAA/NWS/ Automated Surface Observing System (ASOS)	IT Investment BY2007	non-IT		5	Admin, System	8/16/2005 16:21

3.2 List of OMB Circular A-11, Exhibit 300 or Equivalent for Each Major System.

The following is a list of all NOAA major systems that have an associated OMB Exhibit 300 in the e-CPIC database.

Title	Portfolio	Template	Rev	Type	Class	Point of Contact
NOAA/NESDIS/ Environmental Satellite Processing Center (ESPC)	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Smith, Natalie
NOAA/NESDIS/ GOES Ground System	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NESDIS/ NOAA National Data Centers (NNDC)	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NESDIS/ NPOESS Ground System	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NESDIS/ Office of Satellite Data Processing and Distribution (OSDPD) Systems CIP	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NESDIS/ POES Ground System for NPOESS Data Exploitation	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NESDIS/ Satellite Operations Control Center Command and Data Acquisition (SOCC/CDA)	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NESDIS/ Search and Rescue Satellite-Aided Tracking (SARSAT)	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NESDIS/Comprehensive Large Array-data Stewardship System (CLASS)	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NFA/ Financial Management IT Operations	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NFA/ NOAA Grants Back-End System Development	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NFA/ NOAA Non-Core CAMS Financial Management Systems (TM/PCS/DW)	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NOS/ Geodetic Support System	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NOS/ Nautical Charting System	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NOS/ PORTS & NWLON	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NWS/ NWS COOP Modernization	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NWS/ NWS Office of Hydrologic Development	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NWS/ National Air Quality Forecast Capability	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NWS/ Office of Operational Systems - Other	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System

Title	Portfolio	Template	Rev	Type	Class	Point of Contact
NOAA/NWS/ Office of Science and Technology, Other Systems	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NWS/Advanced Weather Interactive Processing System	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NWS/Automated Surface Observing System (ASOS)	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NWS/NCEP Weather and Climate Forecast System IT Support	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NWS/NOAA Weather Radio (NWR) All Hazards Weather Network (NAHWN) aka All Hazards Emergency Message Collection System (HazCollect)	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NWS/NWS Regions & Field	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NWS/National Weather Service Telecommunication Gateway (NWSTG) System (Legacy, Replacement, and CIP)	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NWS/Next Generation Weather Radar (NEXRAD) Operations and Maintenance	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NWS/Next Generation Weather Radar (NEXRAD) System Planned Product Improvement	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NWS/Weather and Climate Supercomputing	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/NWS/Weather and Climate Supercomputing Backup	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/OAR/ FSL - High Performance Computing and Communications	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/OAR/ GFDL High Performance Computing System	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System
NOAA/OAR/ NOAA Scientific Computing Support	NOAA Majors BY 2006	IT Investment BY2006	2	Major IT Investment	IT	Admin, System

3.3 Milestone Table Describing the Status of All Current and Planned Major Initiatives.

3.3.1 NOAA FY 2006 Annual Operating Plan

Below are the milestones contained in NOAA's FY2006 Annual Operating Plan (AOP), color-coded by quarter of completion.

NOAA Mission Goal	NOAA Program	Milestone (separate milestones by program)	Q1	Q2	Q3	Q4	NOAA FY2006 Priority	Responsible LO Component (and Point of Contact)
Mission Support	IT Services	IT SECURITY (Patch Management) Deploy Patch Management tool	X				Continue Implementation of the President's Management Agenda	OCIO Becky Vasvary 301-713-0042
Mission Support	IT Services	IT SECURITY (Security manuals) Update NOAA IT Security manuals	X				Continue Implementation of the President's Management Agenda	IT Security Committee/OCIO Becky Vasvary 301-713-0042
Mission Support	IT Services	IT SECURITY (CIRT) Complete Satellite CIRT in Seattle		X			Continue Implementation of the President's Management Agenda	OCIO Becky Vasvary 301-713-0042
Mission Support	IT Services	IT SECURITY Purchase Intrusion Dectect/Prevention software & Firewalls for major NOAA net segments: Norman, Seattle, Boulder, Kansas City, Fort Worth, Salt Lake, Silver Spring, Miami, and Bohemia		X			Continue Implementation of the President's Management Agenda	OCIO Becky Vasvary 301-713-0042

NOAA Mission Goal	NOAA Program	Milestone (separate milestones by program)	Q1	Q2	Q3	Q4	NOAA FY2006 Priority	Responsible LO Component (and Point of Contact)
Mission Support	IT Services	IT SECURITY Operationalize Intrusion Dectect/Prevention software & Firewalls for major NOAAnet segments: Norman, Seattle, Boulder, Kansas City, Fort Worth, Salt Lake, Silver Spring, Miami, and Bohemia			X		Continue Implementation of the President's Management Agenda	OCIO Becky Vasvary 301-713-0042
Mission Support	IT Services	IT SECURITY (C&A Consolidation) Complete C&A consolidation review		X			Continue Implementation of the President's Management Agenda	IT Security Committee/OCIO Becky Vasvary 301-713-0042
Mission Support	IT Services	IT SECURITY (C&A Consolidation) Complete consolidation of Weather Forecast Offices C&As		X			Continue Implementation of the President's Management Agenda	IT Security Committee/OCIO Becky Vasvary 301-713-0042
Mission Support	IT Services	IT SECURITY (Awareness Program) Complete annual requirements of awareness program		X			Continue Implementation of the President's Management Agenda	IT Security Committee/OCIO Becky Vasvary 301-713-0042
Mission Support	IT Services	IT SECURITY (C&A) Complete C&A schedule for FY 2006	X				Continue Implementation of the President's Management Agenda	LO CIOs/ITSC 301-713-0042
Mission Support	IT Services	IT SECURITY (C&A) Complete C&As per schedule for Mission Critical and Business Essential Systems				X	Continue Implementation of the President's Management Agenda	LO CIOs/ITSC 301-713-0042

NOAA Mission Goal	NOAA Program	Milestone (separate milestones by program)	Q1	Q2	Q3	Q4	NOAA FY2006 Priority	Responsible LO Component (and Point of Contact)
Mission Support	IT Services	IT SECURITY (IV&V) Award IV&V contract			X		Continue Implementation of the President's Management Agenda	IT Security Committee/OCIO Becky Vasvary 301-713-0042
Mission Support	IT Services	IT SECURITY (IV&V) Begin IV&V vulnerability assessment & audits for NOAA IT systems			X		Continue Implementation of the President's Management Agenda	IT Security Committee/OCIO Becky Vasvary 301-713-0042
Mission Support	IT Services	IT SECURITY (Annual Conference) Hold Annual IT Security Conference			X		Continue Implementation of the President's Management Agenda	OCIO Becky Vasvary 301-713-0042
Mission Support	IT Services	IT SECURITY (Patch Management) Validate mitigations of medium or higher vulnerabilities from 2005 baseline			X		Continue Implementation of the President's Management Agenda	OCIO Becky Vasvary 301-713-0042
Mission Support	IT Services	IT SECURITY Reduce number of "Failure to Act" incidents by 10%				X	Continue Implementation of the President's Management Agenda	OCIO Becky Vasvary 301-713-0042
Mission Support	IT Services	IT SECURITY (Inventory) Submit semi-annual inventory to DOC				X	Continue Implementation of the President's Management Agenda	OCIO Becky Vasvary 301-713-0042
Mission Support	IT Services	IT SECURITY (HSPD-12) Complete study for risk-based assessment of IT implementation in accordance with HSPD-12			X		Continue Implementation of the President's Management Agenda	OCIO Becky Vasvary 301-713-0042

NOAA Mission Goal	NOAA Program	Milestone (separate milestones by program)	Q1	Q2	Q3	Q4	NOAA FY2006 Priority	Responsible LO Component (and Point of Contact)
Mission Support	IT Services	COMMON SERVICES (NOAAnet) Complete NOAAnet detailed design target architecture	X				Continue Implementation of the President's Management Agenda	Network Advisory Committee/NWS Paul Chan 301-713-3513
Mission Support	IT Services	COMMON SERVICES (NOAAnet) Connect major NOAA campuses to NOAAnet (Kansas City, Seattle, Boulder, Silver Spring, Norfolk, Camp Springs)		X			Continue Implementation of the President's Management Agenda	Network Advisory Committee/NWS Paul Chan 301-713-3513
Mission Support	IT Services	COMMON SERVICES (NOAAnet) Connect CLASS to NOAAnet			X		Continue Implementation of the President's Management Agenda	Network Advisory Committee/NWS Paul Chan 301-713-3513
Mission Support	IT Services	COMMON SERVICES (NOAAnet) Connect all NWS wide area networks to NOAAnet				X	Continue Implementation of the President's Management Agenda	Network Advisory Committee/NWS Paul Chan 301-713-3513
Mission Support	IT Services	COMMON SERVICES (NOAAnet) Establish NOAAnet network management capability and practices		X			Continue Implementation of the President's Management Agenda	Network Advisory Committee/NWS Paul Chan 301-713-3513
Mission Support	IT Services	COMMON SERVICES Email Consolidation) Complete Email consolidation detailed technical target architecture			X		Continue Implementation of the President's Management Agenda	Enterprise Messaging Committee/OCIO John Kyler 301-713-9459

NOAA Mission Goal	NOAA Program	Milestone (separate milestones by program)	Q1	Q2	Q3	Q4	NOAA FY2006 Priority	Responsible LO Component (and Point of Contact)
Mission Support	IT Services	COMMON SERVICES Email Consolidation Complete move of 2000+ mailboxes to MOC cluster (reducing total number of servers down to 38)		X			Continue Implementation of the President's Management Agenda	Enterprise Messaging Committee/OCIO John Kyler 301-713-9459
Mission Support	IT Services	COMMON SERVICES (Email Consolidation) Complete move of an additional 2000+ mailboxes to MOC cluster (reducing total number of servers down to 35)				X	Continue Implementation of the President's Management Agenda	Enterprise Messaging Committee/OCIO John Kyler 301-713-9459
Mission Support	IT Services	COMMON SERVICES (IT Services Contract) NITRB review of IT Services Contract Plan	X				Continue Implementation of the President's Management Agenda	OAR Nancy Huang 301-713-9040
Mission Support	IT Services	COMMON SERVICES (IT Services Contract) CITRB review of IT Services Contract Plan	X				Continue Implementation of the President's Management Agenda	OAR Nancy Huang 301-713-9040
Mission Support	IT Services	COMMON SERVICES (IT Services Contract) Complete IT Services contract SOW		X			Continue Implementation of the President's Management Agenda	OAR Nancy Huang 301-713-9040
Mission Support	IT Services	COMMON SERVICES (IT Services Contract) Award IT Services Contract				X	Continue Implementation of the President's Management Agenda	OAR Nancy Huang 301-713-9040

NOAA Mission Goal	NOAA Program	Milestone (separate milestones by program)	Q1	Q2	Q3	Q4	NOAA FY2006 Priority	Responsible LO Component (and Point of Contact)
Mission Support	IT Services	COMMON SERVICES (Help Desk) IT Help Desk Working Group to deliver project planning tasks (Charter, Business Case, Requirements, Focus Group results, SOW, Governance Model, and Communications Plan)			X		Continue Implementation of the President's Management Agenda	Help Desk Work Group/NOS Hugh Johnson 301-713-1156
Mission Support	IT Services	DATA STANDARDS AND DATA INTEGRATION (IPv6) Complete preliminary IPv6 Implementation Plan		X			Continue Implementation of the President's Management Agenda	Network Advisory Committee (NAC)/OCIO Jerry Janssen 301-713-3333
Mission Support	IT Services	DATA STANDARDS AND DATA INTEGRATION (IPv6) Complete IPv6 inventory of systems, servers, network equipment and applications				X	Continue Implementation of the President's Management Agenda	Network Advisory Committee (NAC)/OCIO Jerry Janssen 301-713-3333
Mission Support	IT Services	DATA STANDARDS AND DATA INTEGRATION (Admin Systems) Deliver Grants-in-your-State prototype	X				Continue Implementation of the President's Management Agenda	OCIO Larry Sparks 301-444-272006
Mission Support	IT Services	DATA STANDARDS AND DATA INTEGRATION (Admin Systems) Review and approve Grants-in-your-State	X				Continue Implementation of the President's Management Agenda	OCIO Larry Sparks 301-444-272006

NOAA Mission Goal	NOAA Program	Milestone (separate milestones by program)	Q1	Q2	Q3	Q4	NOAA FY2006 Priority	Responsible LO Component (and Point of Contact)
		prototype						
Mission Support	IT Services	DATA STANDARDS AND DATA INTEGRATION (Admin Systems) Complete development of Grants-in-your-State system		X			Continue Implementation of the President's Management Agenda	OCIO Larry Sparks 301-444-272006
Mission Support	IT Services	DATA STANDARDS AND DATA INTEGRATION (Admin Systems) Implement Grants-in-your-State system			X		Continue Implementation of the President's Management Agenda	OCIO Larry Sparks 301-444-272006
Mission Support	IT Services	RESPONSIVE BUSINESS SYSTEMS (Admin Systems) Deploy CBS data warehouse server and storage hardware (in response to NFR NOAA 2005-13)	X				Continue Implementation of the President's Management Agenda	OCIO John Villemarette 301-713-3370

NOAA Mission Goal	NOAA Program	Milestone (separate milestones by program)	Q1	Q2	Q3	Q4	NOAA FY2006 Priority	Responsible LO Component (and Point of Contact)
Mission Support	IT Services	RESPONSIVE BUSINESS SYSTEMS (Admin Systems) Implement two HP Alpha ES47's and EVA5000 storage array for CBS disaster recovery (in response to NFR NOAA 2005-2005 and NFR NOAA 2005-2006)	X				Continue Implementation of the President's Management Agenda	OCIO John Villemarette 301-713-3370
Mission Support	IT Services	RESPONSIVE BUSINESS SYSTEMS (Admin Systems) Update Grants Online System to comply with new forms on Grants.gov		X			Continue Implementation of the President's Management Agenda	OCIO Larry Sparks 301-444-272006
Mission Support	IT Services	RESPONSIVE BUSINESS SYSTEMS (Web) Implement a web governance structure				X	Continue Implementation of the President's Management Agenda	NOAA Web Committee/OAR Allison Sousi-Tanani 301-713-9040
Mission Support	IT Services	RESPONSIVE BUSINESS SYSTEMS (Web) Create Consolidation Plan to organize NOAA Web assets			X		Continue Implementation of the President's Management Agenda	NOAA Web Committee/OAR Allison Sousi-Tanani 301-713-9040
Mission Support	IT Services	RESPONSIVE BUSINESS SYSTEMS (Web) Rollout new NOAA.gov and other high-level sites		X			Continue Implementation of the President's Management Agenda	NOAA Web Committee/OAR Allison Sousi-Tanani 301-713-9040

NOAA Mission Goal	NOAA Program	Milestone (separate milestones by program)	Q1	Q2	Q3	Q4	NOAA FY2006 Priority	Responsible LO Component (and Point of Contact)
Mission Support	IT Services	RESPONSIVE BUSINESS SYSTEMS (Intranet) Transition NOAA Intranet from pilot to operations			X		Continue Implementation of the President's Management Agenda	NOAA Web Committee/OAR Allison Sousi-Tanani 301-713-9040
Mission Support	IT Services	RESPONSIVE BUSINESS SYSTEMS (Wireless) Complete draft Wireless Architecture		X			Continue Implementation of the President's Management Agenda	Network Advisory Committee (NAC)/OCIO Jerry Janssen 301-713-3333
Mission Support	IT Services	RESPONSIVE BUSINESS SYSTEMS (Wireless) Complete Final Wireless Architecture				X	Continue Implementation of the President's Management Agenda	Network Advisory Committee (NAC)/OCIO Jerry Janssen 301-713-3333
Mission Support	IT Services	RESPONSIVE BUSINESS SYSTEMS (MIS) Award MIS Contract		X			Continue Implementation of the President's Management Agenda	Enterprise Management Information Committee/OCIO David McClure 202-482-2855
Mission Support	IT Services	RESPONSIVE BUSINESS SYSTEMS (MIS) Complete MIS implementation plan (formal project plan)		X			Continue Implementation of the President's Management Agenda	Enterprise Management Information Committee/OCIO David McClure 202-482-2855
Mission Support	IT Services	RESPONSIVE BUSINESS SYSTEMS (MIS) Complete MIS baseline management information architecture v.1			X		Continue Implementation of the President's Management Agenda	Enterprise Management Information Committee/OCIO David McClure 202-482-2855
Mission Support	IT Services	RESPONSIVE BUSINESS SYSTEMS (MIS) Complete target management information architecture, v.1				X	Continue Implementation of the President's Management Agenda	Enterprise Management Information Committee/OCIO David McClure 202-482-2855

NOAA Mission Goal	NOAA Program	Milestone (separate milestones by program)	Q1	Q2	Q3	Q4	NOAA FY2006 Priority	Responsible LO Component (and Point of Contact)
Mission Support	IT Services	POLICIES (Configuration) Complete policy on secure configuration on all devices	X				Continue Implementation of the President's Management Agenda	IT Security Committee/OCIO Becky Vasvary 301-713-0042
Mission Support	IT Services	POLICIES (FAIR Act) Conduct feasibility study for category W/B positions		X			Continue Implementation of the President's Management Agenda	OCIO Jerry McNamara 301-713-3525
Mission Support	IT Services	POLICIES (GIS) Complete policy and procedures for GIS and geospatial data in conjunction with NOAA Observing System Council				X	Continue Implementation of the President's Management Agenda	NOS Hugh Johnson 301-713-1156
Mission Support	IT Services	POLICIES (Wireless) Complete wireless PC and network standards and policies				X	Continue Implementation of the President's Management Agenda	Network Advisory Committee (NAC)/OCIO Jerry Janssen 301-713-3333
Mission Support	IT Services	POLICIES (Wireless) Complete preliminary Wireless security standards		X			Continue Implementation of the President's Management Agenda	Network Advisory Committee (NAC)/OCIO Jerry Janssen 301-713-3333
Mission Support	IT Services	POLICIES (Wireless) Complete final Wireless Security Standards			X		Continue Implementation of the President's Management Agenda	Network Advisory Committee (NAC)/OCIO Jerry Janssen 301-713-3333
Mission Support	IT Services	POLICIES (VoIP) Complete voice over IP Security Policy	X				Continue Implementation of the President's Management Agenda	OCIO Becky Vasvary 301-713-0042

NOAA Mission Goal	NOAA Program	Milestone (separate milestones by program)	Q1	Q2	Q3	Q4	NOAA FY2006 Priority	Responsible LO Component (and Point of Contact)
Mission Support	IT Services	EA Complete update of Enterprise Architecture document in accordance with v2.0 framework			X		Continue Implementation of the President's Management Agenda	EA Committee/OCIO Ira Grossman 301-713-3525
Mission Support	IT Services	CPIC Develop new NITRB review criteria to reflect new guidance and project development principles	X				Continue Implementation of the President's Management Agenda	OCIO Jerry McNamara 301-713-3525
Mission Support	IT Services	CPIC Review FY 2008 IT Portfolio		X			Continue Implementation of the President's Management Agenda	OCIO Jerry McNamara 301-713-3525
		Total Program Funds (\$K)	5073.5	13637.9	6168.4	7017.8		
Weather & Water	Environmental Modeling	HPC Complete cost, schedule, and performance reviews of projects receiving \$1M or more of HPC funding				X	Ensure Public Safety and Economic Security through Improved Weather and Water Information	OCIO William Turnbull 301-713-9600
Weather & Water	Environmental Modeling	POLICIES (HPC) Conduct NOAA Tech2006	X				Ensure Public Safety and Economic Security through Improved Weather and Water Information	OCIO William Turnbull 301-713-9600
Weather & Water	Environmental Modeling	POLICIES (HPC) Release upgrade to the Flexible Modeling System (FMS) infrastructure.			X		Ensure Public Safety and Economic Security through Improved Weather and Water Information	OCIO William Turnbull 301-713-9600

NOAA Mission Goal	NOAA Program	Milestone (separate milestones by program)	Q1	Q2	Q3	Q4	NOAA FY2006 Priority	Responsible LO Component (and Point of Contact)
Weather & Water	Environmental Modeling	COMMON SERVICES (HPC) Adapt NOAA Land Surface Model, North American Land surface Data Assimilation System (NLDAS) and Global Land surface Data Assimilation System (GLDAS) to ESMF-compliance and develop coupler using NCEP Climate Forecast System coupler as a prototype.				X	Ensure Public Safety and Economic Security through Improved Weather and Water Information	OCIO William Turnbull 301-713-9600
Weather & Water	Environmental Modeling	COMMON SERVICES (HPC) Transition 6 HPC-developed technologies to operational use				X	Ensure Public Safety and Economic Security through Improved Weather and Water Information	OCIO William Turnbull 301-713-9600
Weather & Water	Environmental Modeling	COMMON SERVICES (HPC) Award Contract for R&D HPC	X				Ensure Public Safety and Economic Security through Improved Weather and Water Information	OCIO William Turnbull 301-713-9600
Weather & Water	Environmental Modeling	COMMON SERVICES (HPC) Accept the initial delivery of the R&D HPC system.			X		Ensure Public Safety and Economic Security through Improved Weather and Water Information	OCIO William Turnbull 301-713-9600
		Total Program Funds (\$K)	23600.0	10900.0	11400.0	1004.0		

3.3.2 Additional NOAA IT Milestones by Mission Goal

The tables below are additional milestones supporting NOAA’s mission areas.

3.3.2.1 Coastal and Marine Ecosystems

NMFS/NOAA e-Rulemaking Federal Docket Management System (FDMS)

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
NMFS Migration		6/30/2006		
DOC and remainder of NOAA Migration		9/30/2006		

NMFS/NOAA Paperwork and Regulatory Information Management Environment (PRIME)

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
NMFS Pilot		1/6/2006		
Full NMFS Implementation		3/15/2006		

3.3.2.2 Climate

NESDIS/ CLASS: Comprehensive Large Array-Data Stewardship System (CLASS)

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
FY2006 CLASS	10/01/2005	9/30/2006		\$9.041
DME FY2006 CLASS	10/01/2005	9/30/2006		\$5.812
Core Development – enhanced communications, storage, retrieval and customer interface	10/01/2005	9/30/2006		\$2.323
Campaigns - EOS data migration	10/01/2005	9/30/2006		\$3.314
Metadata - development	10/01/2005	9/30/2006		\$0.125
QA/QC	10/01/2005	9/30/2006		\$0.20050
FY2006 Operations & Maintenance	10/01/2005	9/30/2006		\$3.229

NESDIS/NOAA National Data Centers (NNDC)

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
FY2006 NNDC Enhancements and Maintenance	10/01/2005	9/30/2006		\$35.793
Equipment	10/01/2005	9/30/2006		\$1.700
Software	10/01/2005	9/30/2006		\$0.400
Telecommunications	10/01/2005	9/30/2006		\$0.428
Support Services	10/01/2005	9/30/2006		\$15.639
Supplies	10/01/2005	9/30/2006		\$0.217
Personnel	10/01/2005	9/30/2006		\$17.49

3.3.2.3 Weather and Water

NWS/Air Quality (AQ)

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
W&W Program		6/30/2006	On	
Begin experimental testing of expanded air quality forecast capability over CONUS			Schedule	
Begin experimental testing of smoke forecast tool		3/31/2006		

NWS/NOAA Weather Radio (NWR) All Hazards Weather Network (NAHWN) aka All Hazards Emergency Message Collection System (HazCollect)

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
Local Forecasts & Warnings (LFW)		6/30/2006	On	
Complete national deployment of All Hazards capability			Schedule	

NWS/Automated Surface Observing System (ASOS)

Description	FY2006 Actual		
	Schedule		% Complete
	Start Date	End Date	
Weather & Water Science (WWS)		3/31/2006	
Complete deployment of ACU processors		3/31/2006	
Complete deployment of Dew point sensor		3/31/2006	On Schedule
Complete deployment of All Weather Precipitation Accumulation Gauge (AWPAG) sensors		9/30/2006	
Complete deployment of Ice Free Wind Sensors			

NWS/ Advanced Weather Interactive Processing System (AWIPS)

Description	FY2006 Actual		
	Schedule		% Complete
	Start Date	End Date	
Local Forecasts & Warnings (LFW)			On Schedule
Complete AWIPS O&M contract transition.		12/31/2005	
Begin deployment of AWIPS Operational Build 6 (OB6)		3/31/2006	
Complete deployment of AWIPS printer replacement		9/30/2006	
Complete deployment of AWIPS Communications Processor (CP) replacement		9/30/2006	
Weather & Water Science (WWS)			
Complete deployment of AWIPS LDAD Firewalls		3/31/2006	
Complete deployment of 2 additional AWIPS LINUX Data Servers (DX) at every site.		3/31/2006	

NWS/Data Assimilation & Modeling

Description	FY2006 Actual		
	Schedule		% Complete
	Start Date	End Date	
Environmental Modeling (MOD)			On Schedule
Implement high resolution (5 km) gridded MOS guidance for CONUS		9/30/2006	
Implement an experimental probabilistic hurricane storm surge guidance product for TPC (Tropical Prediction Center)		6/30/2006	
		9/30/2006	
Develop the capacity to update annually 6 SLOSH model basins		3/31/2006	
Update SLOSH model database for Pensacola Bay, FL.		9/30/2006	
Update SLOSH model database for New Orleans, LA.			

NWS/NOAA Environmental Real-Time Observations Network (NERON)

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
Weather & Water Science (WWS) 85% of NERON observations are delivered to NCDC for archiving 75% of NERON observations pass quality assurance tests		9/30/2006 9/30/2006	On Schedule	

NWS/ Next Generation Weather Radar (NEXRAD) – Product Improvement

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
Weather & Water Science (WWS) Complete deployment of 100 NEXRAD ORDA systems		9/30/2006		

NWS/ National Weather Service Telecommunication Gateway (NWSTG)

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
W&W Program				
Acquire, install & test Backup Sys. Hardware	10/1/2005	9/30/2006		
Integrate MS3, GSC, FEPS Phase 2 on Backup	10/1/2005	3/01/2006		
End-to-end testing, IV&V, Operational Testing on Backup	3/13/2006	8/25/2006		
Fail-over testing on Backup	8/28/2006	10/25/2006		
Operational testing on Legacy Replacement	11/7/2005	1/13/2006		
Legacy Replacement Operational	1/30/2006	1/30/2006		
Legacy Replacement Tech Refresh	1/30/2006	9/30/2011		
Install internal network at Backup site & failover testing	12/1/2005	3/31/2006		
Implement Configuration Management – NWSTG system	10/1/2005	4/1/2006		

Not on-schedule. Revised target date for Legacy Replacement Operational is 3/31/6

NWS/Office of Hydrologic Development (OHD)

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
Water Resources			On	
Implement Advanced Hydrologic Prediction System (AHPS) at 287 locations	10/12005	9/30/2006	Schedule	
Provide gridded forecast coverage for 2% of the Nation	10/1/2005	9/30/2006		
Provide hydromet observation data delivery to NWS field offices in 4.0 minutes.	10/1/2005	9/30/2006		
Provide OHD development IT availability of 95%	10/1/2005	9/30/2006		

NWS Steady State/On-going Initiatives

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
NCEP W & C Forecast IT Support			Steady State	
NCEP W & C Supercomputing			Steady State	
NEXRAD O&M			On-Going	
NWS Office of Operational Systems - Other			On-Going	
NOAA/NWS/ Regions & Fields			Steady State	
NWS Office of Science & Technology - Other Systems			On-Going	

3.3.2.4 Commerce and Transportation

NESDIS/ Search and Rescue Satellite-Aided Tracking (SARSAT)

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
FY2006 Operations	10/01/2005	9/30/2006		\$1.100
FY2006 Maintenance	10/01/2005	9/30/2006		\$4.410

NOS/Nautical Charting System

Description	Scheduled		% Complete	Actual Cost (\$M)
	Start Date	End Date		
Generation I Operations and Maintenance	10/01/2001		76.97	\$8.569
FY2005 Operations and Maintenance	10/01/2004		94.00	\$1.022
FY2006 Operations and Maintenance				\$0.000
Generation II Trade Study (DME)	2005/01/2005		42.55	\$0.195
Generation II Government System Selection				\$0.000
Generation II Systems Acquisition(DME)	10/01/2004		1.19	\$0.019
FY2006 Acquisition				\$0.000
Generation II Systems Integration (DME)				\$0.000
FY2006 Integration				\$0.000
VDatum Hardware/Software Acquisition (DME)				\$0.000
Systems Support (SS)	3/01/2005		26.00	\$0.94
FY2005 Systems Support	3/01/2005		26.00	\$0.94
Hardware and Software Acquisition	10/01/2003		56.28	\$1.001
FY2005	10/01/2004		48.71	\$0.121
FY2006				\$0.000

NOS/Geodetic Support System

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
Maintenance of System	10/01/2005	9/30/2006		\$0.000

NOS/Physical Oceanographic Real-time System (PORTS)/National Water Level Observation Network (NWLON)

Description	Scheduled		% Complete	Actual Cost (\$M)
	Start Date	End Date		
Design and implement initial case-based reasoning capabilities into CORMS AI	1/01/2005	12/31/2005	58.00	\$0.173
Define requirements for water current processing and analysis tools	1/01/2005	12/31/2005	58.00	\$0.173
Enhance the prototype Automated Real-Time Narrative Summary application to include the Great Lakes				\$0.000
Develop a CO-OPS IOOS data and information portal in conjunction with the National Data Buoy Center for the purposes of sharing collaborative IOOS activities				\$0.000
Develop a CO-OPS OpenDap Server for sharing of data with IOOS partner				\$0.000
Replace all mid-level data servers used for PORT/NWLON operations as part of the overall strategy for technology refresh				\$0.000
Install and evaluate a full-functioning COOP disaster recovery system				\$0.000

3.3.2.5 Critical Support: Satellites

NESDIS/ Environmental Satellite Processing Center (ESPC)

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
ESPC FY2006 IT	10/01/2005	9/30/2006		\$13.634
DME/FY2006 Migration Project	10/01/2005	9/30/2006		\$3.048
FY2006 SSD-SATEPS	10/01/2005	9/30/2006		\$8.329
Telecommunications	10/01/2005	9/30/2006		\$0.048
Desktop and Personal Computing Devices	10/01/2005	9/30/2006		\$0.100
IT Training	10/01/2005	9/30/2006		\$0.024
IT Security	10/01/2005	9/30/2006		\$0.523
Common User Services	10/01/2005	9/30/2006		\$0.337
Government Labor	10/01/2005	9/30/2006		\$3.991
Support Services	10/01/2005	9/30/2006		\$3.36
SS/FY2006 SSD-SATEPS	10/01/2005	9/30/2006		\$2.257
Telecommunications	10/01/2005	9/30/2006		\$0.20052
Desktop and Personal Computing Devices	10/01/2005	9/30/2006		\$0.100
IT Training	10/01/2005	9/30/2006		\$0.023
IT Security	10/01/2005	9/30/2006		\$0.156
Common User Services	10/01/2005	9/30/2006		\$0.076
Government Labor	10/01/2005	9/30/2006		\$0.20055
Support Services	10/01/2005	9/30/2006		\$1.795

NESDIS/ Environmental Satellite Processing Center Ground System (GOES GS)

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
SS/FY2006 GOES Ground System/Infrastructure	10/01/2005	9/30/2006		\$18.727
SS/Antennas – enhance and upgrade	10/01/2005	9/30/2006		\$1.578
SS/RF Systems – enhance and upgrade	10/01/2005	9/30/2006		\$4.655
SS/T&C Instr. Support – enhance and upgrade	10/01/2005	9/30/2006		\$2.713
SS/PG&D – enhance and upgrade	10/01/2005	9/30/2006		\$1.957
SS/Special Projects (none planned)	10/01/2005	9/30/2006		\$0.000
Communications – enhance and upgrade ; DAPS-specific upgrade	10/01/2005	9/30/2006		\$0.835
SS/Engineering – enhance and upgrade	10/01/2005	9/30/2006		\$5.280
SS/Data Centers – enhance and upgrade	10/01/2005	9/30/2006		\$1.59
DME/PG&D	10/01/2005	9/30/2006		\$0.200

NESDIS/ National Polar-Orbiting Operational Environmental Satellite System (NPOESS)

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
FY2006 NPOESS GS	10/01/2005	9/30/2006		\$72.811
C3 DME	10/01/2005	9/30/2006		\$34.349
C3S Management	10/01/2005	9/30/2006		\$5.337
C3S E/I&T	10/01/2005	9/30/2006		\$6.860
MMC	10/01/2005	9/30/2006		\$9.818
BMMC	10/01/2005	9/30/2006		\$0.316
GS	10/01/2005	9/30/2006		\$6.957
DRR	10/01/2005	9/30/2006		\$3.20059
FVS	10/01/2005	9/30/2006		\$2.002
IDPS DME	10/01/2005	9/30/2006		\$38.462
Management	10/01/2005	9/30/2006		\$7.19
E/I&T	10/01/2005	9/30/2006		\$8.738
SW Dev	10/01/2005	9/30/2006		\$16.828
Centrals	10/01/2005	9/30/2006		\$5.787

NESDIS/NPOESS Data Exploitation (NDE)

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
DME NPP BUILD CYCLE: CUSTOMER COORDINATION PHASE	10/01/2005	7/01/2007		\$1.700
First NPP Product Requirements Review	10/01/2005	7/01/2006		\$0.700
Final NPP Product Requirements Review	7/02/2006	7/01/2007		\$1.000
.DME NPP BUILD CYCLE: DESIGN PHASE	3/01/2006	6/15/2007		\$7.300
Preliminary Design Review for NPP	3/01/2006	9/01/2006		\$3.800
Critical Design Review for NPP	10/01/2006	6/15/2007		\$3.500

NESDIS/ Office of Satellite Data Processing and Distribution (OSDPD CIP)

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
FY2006 OSDPD-CIP	10/01/2005	9/30/2006		\$2.750
DME-CIP Engineering Support	10/01/2005	9/30/2006		\$0.500
DME-CIP Equipment - IPD	10/01/2005	9/30/2006		\$2.20050
SS-CIP O&M	10/01/2005	9/30/2006		\$0.200

NESDIS/ Polar-Orbiting Operational Environmental Satellites (POES GS)

Description	FY2006 Actual			Actual Cost (\$M)
	Schedule		% Complete	
SS/FY2006 POES Ground System IT (Steady State)	10/01/2005	9/30/2006		\$14.727
SS/Antenna	10/01/2005	9/30/2006		\$0.975
SS/Communications	10/01/2005	9/30/2006		\$0.250
SS/Data centers	10/01/2005	9/30/2006		\$1.234
SS/PG&D	10/01/2005	9/30/2006		\$2.041
SS/RF Systems	10/01/2005	9/30/2006		\$0.165
SS/Special Projects	10/01/2005	9/30/2006		\$4.596
SS/System Engineering	10/01/2005	9/30/2006		\$5.466
SS/T&C Instrument Support	10/01/2005	9/30/2006		\$0.000

NESDIS/ Satellite Operations Control Center (SOCC)/Command and Data Acquisition (CDA)

Description	FY2006 Actual			Actual Cost (\$M)
	Schedule		% Complete	
	Start Date	End Date		
FY2006 SOCC/CDA	10/01/2005	9/30/2006		\$26.101
SS/Telecommunications	10/01/2005	9/30/2006		\$1.474
SS/Desktop and Personal Computing	10/01/2005	9/30/2006		\$0.217
SS/Common User Services	10/01/2005	9/30/2006		\$0.119
SS/IT Security	10/01/2005	9/30/2006		\$1.046
SS/Common User Services	10/01/2005	9/30/2006		\$0.614
SS/Support Services	10/01/2005	9/30/2006		\$10.924
SS/Government Labor	10/01/2005	9/30/2006		\$10.907
DME JASON-2	10/01/2005	9/30/2006		\$0.800

3.3.2.6 Critical Support: Administration and IT Services

NOAA CIO Council/NOAA IT Review Board (NITRB)

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
Develop new NITRB review criteria reflecting new guidance and project development principles		12/31/2005		
Policy input to mission goals & strategic evaluation of baseline assessments and program plans, ensuring compliance with policies and architectures (PPBES milestones)				
IT investment reviews required by budget process				
IT system control reviews: cost, schedule and performance		Required 3-year review cycle		
C coordinate with Acquisition Office to ensure Earned Value Management reporting included in all IT contracts		Per contract issuance		
Ensure NOAA's IT architecture(s) meet changing OMB requirements				
Complete EA update in accordance with newest OMB framework		6/30/2005		
Review FY 2008 IT Portfolio		3/31/2005		

OAR/ NOAA Scientific Computing Support

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
Describe the NOAA Research target architecture (PRM only) using the Metis modeling tool	10/01/2005	9/30/2006		\$16.216

High Performance Computing

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
Next generation of R&D HPC resources:				
Award contract		12/31/2005		
First installation		1/31/2006		
Second installation		10/31/2006		

E-Mail Spam Filtering

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
Determine if optional services can improve the current Spam email filtering system.		3/31/2006		
Improve or replace the current Spam filtering system		9/30/2006		

Information Systems Management Office (ISMO)

NOAA Grants On-Line

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
Help Desk, Operations and Maintenance Option			0.00	\$0.000
DOC Requirements Analysis	11/15/2004		50.00	\$198.819
MBDA	3/01/2002		52.17	\$140.870
NOAA Program Management Office (PMO) & Technology Refresh	3/01/2002		60.00	\$1,499.110

ISMO/Financial Management IT Operations

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
Facility Support Services Contract Year 2	5/3/2005			\$0.000
Enhance systems to support more concurrent users				\$0.000
Facilities Support Services Contract Year 3				\$0.000
Enhance systems to support more concurrent users				\$0.000
Facilities Support Services Contract Year 4				\$0.000
Enhance systems to support more concurrent users				\$0.000
Facilities Support Services Contract Year 5				\$0.000
Enhance systems to support more concurrent users				\$0.000
Acquisitions to Improve Budget Formulation				\$0.000
Acquisitions to improve the performance and security of CBS				\$0.000

IT Security

Description	FY2006 Actual			
	Schedule		% Complete	Actual Cost (\$M)
	Start Date	End Date		
Initial implementation of Homeland Security Presidential Directive		12/31/2005		

3.4 Summary of Systems That Deviate From Cost, Schedule, or Performances Goals by a Factor of 10% or More.

All **NESDIS** systems are within 10% of cost, schedule, or performances goals

NWS

NOAA Radio All Hazard Weather Network has a schedule deviation: Baseline schedule was based on receiving appropriation on Oct 1, 2004. However, funding was not provided to program manager until April 2004. Therefore, initial development schedule was extended to incorporate a better design dependent on AWIPS build 6 (to be delivered 1st quarter FY 2006). The completion date is now end of FY 2005. All funds have been obligated and project is meeting revised schedule milestones.

NWS Telecom Gateway has a schedule deviation greater than 10%. The project office has taken the following mitigating measures:

- Acquire the services of a contractor (Prism Inc.) to supplement NWS and IBM personnel in converting legacy software and perform validation and verification for system integration of the message switching system
- Deploy additional NWS personnel for the project and protect project personnel from Gateway O&M activities

NMAO has no systems that deviate from cost, schedule, or performances goals by a factor of 10% or more.

3.5 Management IT initiatives and Associated Performance Measures Planned for FY 2006.

3.5.1 Coastal and Marine Ecosystems

E-Gov Initiatives: e-Rulemaking

NMFS Federal Docket Management System (FDMS)

- **INITIATIVE:** NOAA Fisheries plans to migrate to the FDMS during FY2006.
 - **PLANNED RESULTS:**
 - Manage the project plan developed in 2005 to establish business rules for using the systems
 - Conduct a pilot
 - Assess the need for and procuring additional imaging hardware and software
 - Train HQ and Regional staff
 - Managing the cultural change required to fully utilize the FDMS.
 - Project Management of plan developed in FY2005:
 - DOC-wide kick-off meeting: October 2005
 - NMFS Kick-off meeting: April 2006
 - NMFS Training: April 2006
 - NMFS Pilot: April 2006
 - NMFS Deployment: May – June 2006
 - NMFS Go Live: June 2006
 - **IMPACT/BENEFIT:** Regulatory materials including proposed rules, and supporting documents will be posted in FDMS public to review and comment
 - Comment will be taken online using web forms to more fully involve the public in the development of regulations
 - Public will be able to receive notification when NOAA proposed and final rules are posted in the Federal Register and FDMS.

NMFS Paperwork and Regulation Management Environment

- **INITIATIVE:** NMFS Plans to roll out the PRIME system in early 2006.
 - **PLANNED RESULTS:**
 - Complete User documentation
 - Conduct a PRIME pilot
 - Conduct onsite training
 - Fully deploy by March 15, 2006
 - Conduct “Lessons” Learned, June 2006
 - Project managed by detailed project management plan in Microsoft Project. Risks continually monitored and managed.
 - **IMPACT/BENEFIT:** Improved coordination of rulemaking submissions, tracking and review.

NMFS Pilot Electronic Document Management System (EDMS)

INITIATIVE: NMFS plans to conduct a pilot Electronic Document Management System in one Regional Office to determine the strengths, weaknesses and opportunities for deploying an enterprise-wide electronic administrative record to support the regulatory process. We plan to obtain a pilot system and to utilize NMFS-wide teams to establish a pilot administrative record business process including a draft taxonomy, metadata, and business rules.

- PLANNED RESULTS: The Project plan developed in FY2005 will be managed and executed during FY2006. Milestones include:
 - Obtain pilot system in January 2006.
 - Deploy pilot Administrative Record business process March 2006
 - Conduct lesson learned: September 2006
- IMPACT/BENEFITS:
 - Increased productivity
 - Improved organizational agility and flexibility
 - Improved compliance
 - Connect NMFS' islands of information (databases, document repositories, etc.)
 - Creates potential links with NMFS E-Gov initiatives and regulatory processes
 - Increased customer satisfaction
 - Avoided costs – Fairly rapid ROI

3.5.2 Climate

3.5.3 Weather and Water

NWS Office of Science & Technology

- INITIATIVE: Local Forecasts & Warnings (LFW)
 - SCHEDULE AND PLANNED RESULTS:
 - Complete initial prototype of rip current monitor & prediction capability for System on AWIPS for Forecasting and Evaluation of Seas and Lakes (SAFESEAS) - 9/30/2006
 - Refine capability to adjust \$D icing and turbulence grids via interactive model interpretation based on forecaster feedback - 9/30/2006
 - Develop an application to query downloaded National Digital Forecast Database (NDFD) grids and output point data in XML - 9/30/2006
 - IMPACT/BENEFIT: More timely and accurate information

3.5.4 Commerce and Transportation

E-Gov Geospatial One-Stop

- INITIATIVE: Support Geospatial One-Stop development
 - PLANNED RESULTS:

- Continue to serve on GOS steering committees
- Compliance with E-Gov reporting requirements
- Add links to GOS from NOAA pages
- Report on geospatial data acquisitions
- IMPACT/BENEFIT: Compliance with PMA

GIS Technologies

- INITIATIVE: Coordinate NOAA GIS Effort
 - Continue to lead the NOAA GIS Committee
 - Develop policy and procedures for GIS and geospatial data
 - Develop and implement a GIS architecture for NOAA
 - PLANNED RESULTS:
 - Baseline characterization of NOAA GIS assets, target architecture development and migration plan
 - Coordination with DMIT on data management policy
 - NOAA Metadata policy
 - IMPACT/BENEFIT:
 - Rapid response for geographic depiction of NOAA data;
 - Better collaboration among NOAA offices and other government partners

3.5.5 Mission Support: Satellites

NESDIS Office of Satellite Operations (OSO)

- INITIATIVE: Continue IT refresh, which includes the replacement and installation of new firewalls, switches and routers
 - PLANNED RESULTS: Increased security controls. Support of IPv6 technology
 - IMPACT/BENEFIT: Increase level of monitoring on all networks and remove legacy equipment that does not support the IPv6 network protocols.
- INITIATIVE: Update OSO network monitoring and troubleshooting tools
 - PLANNED RESULTS: Improve network mapping and troubleshooting
 - IMPACT/BENEFIT: Increased reliability will be achieved along with improvements in planning network and communication resources
- INITIATIVE: New Configuration Management procedures and policies implementation
 - PLANNED RESULTS: Automation of program configuration management using electronic forms. Tracking of all program changes through the use of Configuration Control Boards
 - IMPACT/BENEFIT: Less reliance on paper logging, increase tracking capabilities, greater resource control
- INITIATIVE: Creation of a new IT security plan for the OSO antenna systems
 - PLANNED RESULTS: Creation of a new ITSSO position. Creation of a new Certification and Accreditation package.

- IMPACT/BENEFIT: Increased security controls, better documentation and planning of IT resources used, improved communications between OSO and other agencies by Service Level Agreements and Memos of Understanding.
- INITIATIVE: Completion of the SOCC Suitland move to the new NSOF building
 - PLANNED RESULTS: Improvements in the work environment, better communications with the consolidation of OSO offices at Suitland
 - IMPACT/BENEFIT: Better environmental controls for personnel and equipment

NESDIS Office of Satellite Data Processing and Distribution (OSDPD)

- INITIATIVE: CEMSCS/SATEPS consolidation
 - PLANNED RESULTS: The Environmental Satellite Processing Center (ESPC) will be a fully integrated national mission critical system incorporating the functionality of CEMSCS and SATEPS.
 - IMPACT/BENEFIT: Enable OSDPD to deploy an extensible enterprise architecture that exceeds configuration management and IT security standards.
- INITIATIVE: CIP Planning and Implementation
 - PLANNED RESULTS: OSDPD will implement a CIP (Critical Infrastructure Protection) site in Wallops Island, VA to serve as a backup facility for ESPC
 - IMPACT/BENEFIT: Provide ESPC a fully functional backup site
- INITIATIVE: Consolidation of Operations
 - PLANNED RESULTS: Create a central customer support function in ESPC to address users' needs...desktop assistance centralized for all of ESPC under CITS (Common IT Services)
- INITIATIVE: Moving of applications to AIX from mainframe
 - PLANNED RESULTS: All product-generation applications and services ported from the mainframe to the AIX platform and running in ESPC.
 - IMPACT/BENEFIT: Retire the mainframe whose maintenance is severely cost prohibitive
- INITIATIVE: NSOF Common IT Services (CITS)
 - PLANNED RESULTS: Assume management responsibility for CITS in the NOAA Satellite Operations Facility (NSOF)...includes desktop admin LAN, WAN, cable management, PBX, and multimedia support.
 - IMPACT/BENEFIT: Take advantage of 24x7x365 operations support infrastructure already in place within ESPC.

3.5.6 Administration and IT Services

3.5.6.1 Enterprise Architecture

NOAA Enterprise Architecture

Plans for Advancing NOAA's Enterprise Architecture in FY 2006 include the following initiatives and tasks:

- **INITIATIVE:** Produce practical guide for Enterprise Architecture (EA) compliance for NOAA IT Review Board (NITRB)
 - **PLANNED RESULTS:**
 - Linking and integrating EA and the NITRB decision making process activities with NOAA's Planning, Programming, Budgeting, and Execution Systems (PPBES).
 - Details a review process for EA products
 - Ensure alignment of IT proposals with To-Be architectures
 - Ensure compliance of IT systems with Department-wide Standards
 - Aid in development of explicit criteria for funding decisions about IT systems
 - Create a standard process for providing feedback on IT proposals that are not approved for funding
 - Support adherence to Department-wide standards and to guidance from the Clinger-Cohen Act, OMB, and GAO
 - Support creation of stronger business cases in OMB Exhibit 300 submissions
 - **IMPACT/BENEFIT:** In the long term, more cost-effective planning and implementation; increased compliance with statutes and OMB regulations.
- **INITIATIVE:** Identify and draft EA Guidance for all NOAA Planning Documents
 - **PLANNED RESULTS:**
 - NOAA's business operations manual (BOM) communicates to all employees the processes and procedures necessary to improve NOAA's delivery of products and services. The manual focuses primarily on the PPBES in the context of how NOAA manages itself.
 - Draft a section in the BOM on enterprise architecture, especially as it relates to PPBES.
 - Identify other NOAA planning documents which require inclusion of NOAA EA guidance.
 - **IMPACT/BENEFIT:** Improved and more consistent guidance.
- **INITIATIVE:** Develop NOAA EA Communications Plan
 - **PLANNED RESULTS:**
 - Communicate the strategic value of NOAA's Enterprise Architecture and how NOAA's EA converges to support both the composite Department of Commerce EA and the Federal Enterprise Architecture (FEA) to a variety of stakeholders

- Develop a communications strategy that will aid in enhancing stakeholders understanding of how NOAA’s EA is integrated and used by the Department of Commerce EA and the Federal Enterprise Architecture (FEA).
 - IMPACT/BENEFIT: Facilitate success of EA implementation and acceptance.
 - INITIATIVE: Produce EA procurement guidance memo
 - PLANNED RESULTS:
 - Draft guidance and appropriate memorandum for NOAA acquisition officials to ensure that all NOAA acquisitions and purchases are in compliance with the NOAA EA
 - IMPACT/BENEFIT: Facilitate ability to achieve strategic goals.
 - INITIATIVE: Develop EA questions for FY 2009 Program Baseline Assessment (PBA) Process
 - PLANNED RESULTS:
 - Help ensure NOAA programs are consistent with NOAA policy and priorities and provide recommendations for adjustments that would enhance NOAA’s ability to achieve the strategic goals.
 - IMPACT/BENEFIT: Facilitate ability to achieve strategic goals.
 - INITIATIVE: Align NOAA EA with OMB EA Assessment Framework Version 2.0
 - PLANNED RESULTS:
 - Develop EA Governance and Management Documentation to Comply with the OMB Federal Enterprise Architecture Program EA Assessment Framework 2.0 Level 3 Practices
 - Create Chief Enterprise Architect Position Description
 - Revise Enterprise Architecture Committee Charter to meet all FEA Assessment Framework 2.0 requirements for Level 3 Practices
 - Establish EA baseline and Configuration Management Process and Plan
 - Update and migrate NOAA EA Models to Department of Commerce Team Server
 - Develop EA Training Plan and Materials
 - IMPACT/BENEFIT: Support Department of Commerce achieving “Green” on President’s Management Agenda for Enterprise Architecture

Capital Investment Process

- INITIATIVE: NOAA IT Review Board (NITRB) tasks. The NOAA CIO Council also serves as the NITRB, which is dictated by Commerce policy and is tasked to review all new NOAA IT investments and perform regular control reviews of ongoing IT projects. The CIO Council also is required to actively participate in the NOAA Planning, Programming, Budgeting, and Execution System (PPBES). As such, the CIO Council will continue to seek improvements.
 - SCHEDULE AND PLANNED RESULTS:
 - Develop new NITRB review criteria to reflect new guidance and project development principles, 1st Quarter.

- Provide policy input to the mission goals and provide strategic evaluation of baseline assessments and program plans to ensure compliance with policies and architectures. Milestones are as required by PPBES.
- Conduct IT investments reviews required by the budget process.
- Conduct IT system control reviews; cost, schedule, and performance. Scheduled determined by required 3 year review cycle.
- Coordinate with Acquisition Office to ensure Earned Value Management reporting is included in all IT contracts. Milestones: per contract issuance.
- Ensure NOAA's IT architecture(s) meet the changing OMB requirements.
- Complete update of the Enterprise Architecture in accordance with newest OMB framework, 3rd Quarter.
- Review FY 2008 IT Portfolio, 2nd Quarter.
- IMPACT/BENEFIT: Improved process for review of investments and projects, and thus more effective and efficient planning and implementation.

Policies

Policies will be required to implement several of the above actions. Some current policies will require review and updating. CIO Council will coordinate and issue/update policies for:

- INITIATIVE: Wireless network standards and security
 - SCHEDULE AND PLANNED RESULTS:
 - Complete Wireless PC and network standards and policies, 4th Quarter.
 - Complete preliminary Wireless Security standards, 2nd Quarter.
 - Complete final Wireless Security standards, 3rd Quarter.
- INITIATIVE: IT Security – Voice over IP (VoIP) technology implementation
 - SCHEDULE AND PLANNED RESULTS: Complete Voice over IP Policy, 1st Quarter.
- INITIATIVE: Standardization of GIS in NOAA
 - SCHEDULE AND PLANNED RESULTS: Complete policy and procedures for GIS and Geospatial data for NOAA, 4th Quarter.
- INITIATIVE: Initial implementation of Homeland Security Presidential Directive -12
 - SCHEDULE: 1st Quarter
- INITIATIVE: Device Configurations.
 - SCHEDULE AND PLANNED RESULTS: Complete policy on secure configuration on all devices, 1st Quarter.
- IMPACT/BENEFIT OF ABOVE POLICY INITIATIVES: Improved and updated policies as a resource for consistent program and planning implementation.

3.5.6.2 Infrastructure

NESDIS Headquarters (HQ)

- INITIATIVE: Continue technology refresh of the LAN installed personal computer base
 - PLANNED RESULTS: Assure IT infrastructure is no more than three to four years old
 - IMPACT/BENEFIT: New and improved applications and operating systems on enhanced IT infrastructure to support users and in some cases to run the applications at all

- INITIATIVE: Migrate email accounts to the NOAA consolidated messaging system
 - PLANNED RESULTS: Cooperate with NOAA enterprise vision
 - IMPACT/BENEFIT: Consolidated system will provide a quick failover thus providing 24x7 assured business email service

- INITIATIVE: Use released email server to create a NOVELL LAN server cluster that will provide failover and redundancy
 - PLANNED RESULTS: Setup a mirror server with the current server
 - IMPACT/BENEFIT: Assure the continued to function if one server fails

- INITIATIVE: Continue working with the NOAA IT Services Committee to develop consolidated Help Desk Support
 - PLANNED RESULTS: Deploy a unified NOAA Help Desk
 - IMPACT/BENEFIT: Provide better and time-saving support to management/staff. Consolidation is estimated to decrease cost and increase efficiency.

NESDIS Office of Research and Applications (ORA)

- INITIATIVE: Migrate to new network in World Weather Building
 - PLANNED RESULTS: Purchased and installed a network infrastructure in WWB.
 - IMPACT/BENEFIT: Allow ORA to implement a DMZ for our Web/FTP servers, a VPN for secure remote access, etc. This will translate into fewer problems for users, enabling them to focus more on their mission.

- INITIATIVE: Create an IT Advisory Committee, and Configuration Management, Data Management, and Web Management subgroups.
 - PLANNED RESULTS: Create an internal committee of mostly scientists to work with ORA IT personnel regarding the interplay between their research and IT. The subgroups will concentrate on this interaction within their subject areas.
 - IMPACT/BENEFIT: This interaction between the ORA research/science and IT domains will result in improved configuration management, data management, and web-content management, reduce redundant efforts within the office, etc.

- INITIATIVE: Implement large central data storage for ORA
 - PLANNED RESULTS: Install a 42 TB NAS/SAN to provide beginnings of a centralized data storage facility.

- IMPACT/BENEFIT: Reduce current data storage redundancies and need for separate data storage units, each of which requires individual data management and system administration.
- INITIATIVE: Plan and begin implementation of a central compute server/cluster
 - PLANNED RESULTS: Plan, purchase, and implement at least the first phase of a central compute server or cluster for ORA-wide research use, compatible with NESDIS/OSDPD operational IT.
 - IMPACT/BENEFIT: Reduce number of computers maintained; saving time and money...ease transition of products from research to operations.
- INITIATIVE: Migrate to NOAA email cluster
 - PLANNED RESULTS: Migrate email server function to NOAA email cluster.
 - IMPACT/BENEFIT: Relieves administration of ORA email server and of backing up the office's email, saving time and money.
- INITIATIVE: Implement Microsoft System Management Server (SMS)
 - PLANNED RESULTS: Greater, centralized control over Windows domain, and allow centralized updates to computers
 - IMPACT/BENEFIT: Especially important for security upgrades which must be applied quickly...centralized administration will save sys admin time and money.
- INITIATIVE: Begin replacing some desktop PCs with notebook computers
 - PLANNED RESULTS: Starting with FY2006 IT refresh cycle, replace desktops with notebooks which can fulfill both office and travel needs.
 - IMPACT/BENEFIT: Reduce number of computers to be maintained saving time and money...ensure users have desktop functionality away from the office.

NESDIS Integrated Program Office (IPO)

- INITIATIVE: Acquire Electronic Records Management System (hardware and software)
 - PLANNED RESULTS: Cost: \$233,000.00
 - IMPACT/BENEFIT: Provide records management capabilities to electronic documents
- INITIATIVE: Evaluating IPv6
 - PLANNED RESULTS: Cost: \$20,000.00
 - IMPACT/BENEFIT: Evaluation of products, software, and hardware will be critical for integration of next generation Internet Protocol (IPv6). Evaluation and research will include interoperability, impact assessment technology adoption analysis
- INITIATIVE: Technology refresh efforts
 - PLANNED RESULTS: Cost: \$30,000.00
 - IMPACT/BENEFIT: Refresh hardware and Software

- INITIATIVE: Asset Management tool
 - PLANNED RESULTS: Cost: \$20,000.00
 - IMPACT/BENEFIT: Capability to track IPO's assets throughout its lifecycle
- INITIATIVE: Evaluating Configuration Management system
 - PLANNED RESULTS: Estimated Cost: \$15,000.00
 - IMPACT/BENEFIT: Keeps track of configuration releases and changes

NWS Office of CIO

- INITIATIVE: Common services (NOAAnet)
 - SCHEDULE AND PLANNED RESULTS:
 - Complete NOAAnet detailed design target architecture, 3/31/2006
 - Connect major NOAA campuses to NOAAnet (Kansas City, Seattle, Boulder, Silver Spring, Norfolk, Camp Springs), 6/30/2006
 - Connect CLASS to NOAAnet - 9/30/2006
 - Connect all NWS wide area Networks to NOAAnet - 3/31/2006
 - Establish NOAAnet network management capability and practices - 12/31/2006
 - IMPACT/BENEFIT: A single network infrastructure will provide more consistent and reliable services as well as better overall security. Greater bandwidth will be provided for equal or less cost than legacy networks.

NOAA Help Desk Consolidation

- INITIATIVE: Unification of DC Metro area help desks
 - SCHEDULE:
 - Develop a comprehensive plan for consolidating help desks within NOAA
 - Execute a phased approach to avoid breaking existing systems
 - Use the new consolidated IT services contract as individual help desk contracts expire
 - PLANNED RESULTS:
 - Initial project planning complete by May 2006
 - Consolidated IT Services award Q2 FY2006
 - Phase one planning complete by October 2006
 - IMPACT/BENEFIT:
 - Cost avoidance by eliminating multiple contracts
 - Elimination of redundant services
 - Consistent delivery of service across NOAA

NOAA Research

- INITIATIVE: Videoconferencing infrastructure
 - COST: The initial investment in equipment and commercial services is \$350,000.
 - SCHEDULE: All equipment was purchased on September 16th and is scheduled for delivery by October 7th (Silver Spring) and October 21st for all other site locations (Boulder, Seattle, Norman, Ann Arbor, Miami, and Princeton); implementation staging (installation, training, and IP testing) will follow a site-by-site phase-in plan from November 4th through January 27th. If required, the

alternative ISDN solution phase-in plan is scheduled from January 6th through February 17th.

- PLANNED RESULTS: Based on implementation testing results, a management decision, based on a technical evaluation and recommendation, will be made whether to continue with the preferred IP technology solution or deploy an ISDN alternative solution. If the preferred IP technology solution is used, a NOAAnet phase-in plan is scheduled from January 13th through February 24th.
- IMPACT/BENEFIT: A long-term, cost-effective IP solution, in line with the NOAA-wide consolidated IT initiative and providing the lead for NOAAnet.

NOAA Web Presence

- INITIATIVE: Create a unified environment to improve NOAA's internal and external Web communications.
 - COST: \$5,396, annual maintenance for Stellent Content Server and related products (Note: this is the only planned expense to support the NOAA Web presence. Other costs will be incurred as the project progresses, however they are not known at this time).
 - SCHEDULE: TBD
 - PLANNED RESULTS:
 - Implement a Web Governance Structure
 - Evaluate Customer Satisfaction for NOAA.gov and other high-level sites
 - Complete Stakeholder Analysis & Evaluation
 - Complete Baseline Usability Testing
 - Conduct American Customer Satisfaction Index Survey (ACSI)
 - Rollout of new look & organization for NOAA.gov and other high-level sites – phased approach
 - Support NOAA branding for all sites
 - Provide increased accessibility to key stakeholders
 - Create plan to consolidate and organize NOAA's Web Assets
 - Implement NOAA-wide search capability - single search engine for all NOAA sites
 - Complete Baseline Information Asset Inventory
 - Create plan for Web server consolidation & migration
 - Create plan for URL consolidation & migration
 - Transition NOAA Intranet from conceptual pilot to operations
 - Identify Management home for general site oversight & operations.
 - Build business & content structure for high-level administrative information
 - Incorporate Support for Scientific Information Sharing at the LO / Program Level
 - IMPACT/BENEFIT: Continued improvement to the NOAA Web presence will provide a unified view of NOAA by internal and external stakeholders, contributing to and supporting NOAA's mission goals.

NOAA IT Support Services Contract

- INITIATIVE: Strategic Management of IT infrastructure support services to meet NOAA's mission support goal objectives
 - COST: Estimate is \$240 million in contracted services over a 6 year period of performance.
 - SCHEDULE: November 2005: NOAA IT Review Board (Decision); December 2005: DOC IT Review Board DPA decision; March: Contract award
 - PLANNED RESULTS: Decrease in the award process cycle time for acquiring IT support services to meet existing requirements; issue multiple performance-based Task Orders (fixed price w/incentives)
 - IMPACT/BENEFIT: Economies of scale, streamlined acquisition process, efficiencies and consistent level of services, institutionalize information technology solutions, DOC small business initiative

NMAO Action Item Tracking System

- INITIATIVE: Install a commercial off the shelf Business Process Management system.
 - PLANNED RESULTS:
 - Phased implementation for FY 2006 will consist of a pilot project to track and manage action items generated by NMAO constituents; promulgated from higher-level organizations in NOAA and DOC; and self initiated.
 - Performance metrics will include number of action items tracked from inception to completion and close-out. A baseline will be established during the pilot roll out and performance measures established for full implementation NMAO enterprise wide in subsequent years.
 - Full implementation of the NMAO enterprise wide Action Item Tracking System will close the gap in utilizing eGovernment tools.
 - IMPACT/BENEFIT: Efficient management operations and increased quality, consistency and timeliness of response to tasks and actions items.

New Information Management Division within a Restructuring of NMAO

- INITIATIVE: New Information Management Division (resulting from independent management study)
 - PLANNED RESULTS:
 - The NMAO CIO position is to be rewritten and is to be the Chief of the new Information Management Division. Formerly the CIO reported to the NMAO Deputy Director. This move will make the NMAO CIO a member of the senior management team.
 - As a further result of the study, NMAO will establish a full time IT Security Officer position. Formerly this was a collateral duty of the NMAO CIO.
 - IMPACT/BENEFIT: More efficient and effective focus on information management and IT security planning and performance.

NOAA Office of Chief Information Officer

Information Systems Management Office (ISMO)

- INITIATIVE: ISMO infrastructure maintenance and upgrade activities
 - PLANNED RESULTS:
 - The Microsoft Enterprise agreement will be renewed as part of the DOC Microsoft Enterprise agreement.
 - The upgrading of the Domain to Windows 2003 will be completed, and the Active Directory implemented for added data security, ease of administration, policy enforcement and share permission control.
 - ISMO will continue on the 3 year Desktop/Laptop 5 year Infrastructure equipment refreshment cycle plan adopted in 2003.
 - The **HEAT** Help Desk software will be upgraded to the latest version which includes a self-service option for the users.
 - The Grants Online system will be deployed to NOAA Grantee community. Support of the Grants Online will include enhancements to comply with the newly implemented Grants.gov application forms.
 - Plans will be implemented to improve the Disaster Recovery and COOP plans including implementation of technology upgrades at the identified support sites.
 - IMPACT/BENEFIT: Smooth continuation of services; enhanced capabilities.

NOAA Common Services (Infrastructure)

The CIO Council will oversee:

- INITIATIVE: Continued implementation of NOAAnet by evolving the NWSnet activity into NOAAnet
 - SCHEDULE AND PLANNED RESULTS:
 - Complete NOAAnet detailed design target architecture, 1st Quarter.
 - Connect major campuses to NOAAnet (Kansas City, Seattle, Boulder, Silver Spring, Norfolk, Camp Springs), 2nd Quarter.
 - Connect CLASS to NOAAnet, 3rd Quarter.
 - Connect all NWS wide area networks to NOAAnet, 4th Quarter.
 - Establish NOAAnet network management capability and practices, 2nd Quarter.
- INITIATIVE: Consolidation of Email servers
 - SCHEDULE AND PLANNED RESULTS:
 - Complete Email consolidation detailed technical target architecture, 3rd Quarter.
 - Complete move of 4000+ mailboxes to MOC cluster (reducing total number of servers down to 35), 4th Quarter.
- INITIATIVE: Development and issuance of a Helpdesk contract (consolidation objective)

- SCHEDULE AND PLANNED RESULTS: IT Help Desk Working Group to deliver project planning tasks (Charter, Business Case Requirements, Focus Group results, SOW, Governance Model, and Communications Plan), 3rd Quarter.
- INITIATIVE: High performance computing acquisition for R&D resources
 - SCHEDULE AND PLANNED RESULTS:
 - Award contract for R&D HPC, 1st Quarter.
 - Accept the initial R&D HPC System delivery, 3rd Quarter.
- INITIATIVE: Development and issuance of a NOAA contract for common IT services (consolidation and applicable standardization objectives)
 - SCHEDULE AND PLANNED RESULTS:
 - NOAA Information Technology Review Board review of IT Services contract plan, 1st Quarter.
 - Commerce Information Technology review Board review of IT Services contract plan, 1st Quarter.
 - Complete IT Services contract SOW, 2nd Quarter.
 - Award IT Services contract, 4th Quarter.
- IMPACT/BENEFIT OF THE ABOVE COMMON SERVICES INITIATIVES:
Economic and performance benefits will be realized as NOAA institutionalizes and provides applicable common IT services which are managed centrally (i.e. a single entity within NOAA). Activities and milestones for FY2006 look to implement or continue progress on those items the CIO Council considers most beneficial (economically or in performance) and most achievable. Initial success is important to help sway the culture of NOAA toward more common services, applications, etc.

Data Standards and Data Management Integration

The CIO Council will direct effort toward the geospatial/geo-referenced data standards for NOAA. As such, the CIO Council will oversee the:

- INITIATIVE: Coordination and development of GIS standards for all applicable NOAA data (in conjunction with NOAA Observing System Council (NOSC)).
 - SCHEDULE AND PLANNED RESULTS: Concurrence with NOSC, 3rd Quarter.
- INITIATIVE: Development of prototype of a NOAA administrative/management data GIS system, beginning with Grants and procurement data
 - SCHEDULE AND PLANNED RESULTS:
 - Deliver Grants-in-your-state prototype, 1st Quarter.
 - Review and Approve Grants-in-your-state prototype, 1st Quarter.
 - Complete development of Grants-in-your-state system, 2nd Quarter.
 - Implement Grants-in-your-state system, 3rd Quarter

- INITIATIVE: Development of NOAA’s IPv6 (Internet Protocol version 6) inventory and implementation plan
 - SCHEDULE AND PLANNED RESULTS:
 - Complete preliminary IPv6 implementation plan, 2nd Quarter.
 - Complete IPv6 inventory of systems, servers, network equipment and applications, 4th Quarter.
- IMPACT/BENEFIT OF THE ABOVE DATA STANDARDS AND DATA MANAGEMENT INTEGRATION INITIATIVES: Utility of NOAA data will significantly increase within and outside of NOAA as NOAA standardizes its data in a common geo-referenced (i.e. geospatial) format.

Responsive Business Systems

NOAA programs and execution offices need common consistent information for effective management. Budget, performance measures, personnel, etc. data needs to be integrated and readily available to NOAA. NOAA internal communications have been identified at the SES level as needing improvement (consistency, timeliness, reliability). As such, the CIO Council will partner with the CFO Council oversee the:

- INITIATIVE: Requirements collection and architecture design of a NOAA Management Information System (MIS).
 - SCHEDULE:
 - Award MIS Contract, 2nd Quarter.
 - Complete MIS implementation plan (formal project plan), 2nd Quarter.
 - Complete MIS baseline management information architecture v1, 3rd Quarter.
 - Complete target management information architecture v1, 4th Quarter.
 - PLANNED RESULTS:
 - Updated inventory of current MIS’s in NOAA
 - Data dictionary of management information in NOAA
 - Prototype “instrument(s)” on “executive dashboard”
 - IMPACT/BENEFIT:
 - Re-engineered business process will result in more coordinated utilization of management information and systems
 - Leveraging ongoing resource expenditures to progress toward target of enterprise MIS integrated with E2E
 - More enterprise information more easily available to the PPBES process, especially in the Planning, Programming, and Budgeting phases
- INITIATIVE: Implementation of a NOAA Intranet
 - SCHEDULE AND PLANNED RESULTS:
 - Transition NOAA intranet from pilot to operations, 3rd Quarter.
 - Rollout new NOAA.gov and other high-level sites, 2nd Quarter.

- INITIATIVE: Implementation of a new web content and technology management/governance structure
 - SCHEDULE AND PLANNED RESULTS:
 - Implement a Web Governance structure, 4th Quarter.
 - Create consolidation plan to organize NOAA Web assets, 3rd Quarter.
- INITIATIVE: Development of desktop/wireless enterprise architecture for seamless integration of desktop applications with wireless technologies in conjunction with DOC desktop/wireless architecture development.
 - SCHEDULE AND PLANNED RESULTS:
 - Complete draft Wireless architecture, 2nd Quarter.
 - Complete final Wireless architecture, 4th Quarter.
- INITIATIVE: Other Responsive Business Systems Milestones
 - SCHEDULE AND PLANNED RESULTS:
 - Deploy CBS data warehouse server and storage hardware (response to Notice of Findings Report (NFR) NOAA 2005-13), 1st Quarter.
 - Implement 2 HP Alpha ES47s and EVA5000 storage array for CBS disaster recovery (response to Notice of Findings Report (NFR) NOAA 2005-2005, Notice of Findings Report (NFR) NOAA-2005-2006), 1st Quarter.
 - Update Grants online system to comply with new forms on Grants.gov, 2nd Quarter.
 - IMPACT/BENEFIT OF ABOVE RESPONSIVE BUSINESS SYSTEMS INITIATIVES: Improvement of NOAA Internal Communications (consistency, timeliness, reliability).

Section 515, Information Quality (IQ)

- INITIATIVE:
 - SCHEDULE AND PLANNED RESULTS:
 - Will post plans for newly-identified and ongoing Influential Scientific Information (ISI) and Highly Influential Scientific Assessments (HISA); anticipate 20-30 ISI peer review plans and two or three new HISA peer review plans by mid-December.
 - Draft changes for NOAA IQ Guidelines will complete by December 16.
 - Adaptation of National Academies Conflict of Interest Policy for use under the Peer Review Bulletin (PRB) – will complete by December 16.
 - IMPACT/BENEFIT: Improved review process and ultimately, improved quality of information.

Other Coordination and Routine Actions

- INITIATIVE: CIO Council will continue its coordinating role for data calls and the annual and usual reporting requirements.
 - PLANNED RESULTS: Ensure information is accurate and collected with minimal acceptable level of effort. In FY2005 NOAA OCIO received **over 110 data calls**. This was an increase of ~20% over FY04 and it is reasonable to

- anticipate yet another increase in FY2006.
- IMPACT/BENEFIT: Continued improvement in coordination of and response to data calls, although volume is expected to continue to increase.

3.5.6.3 IT Security

NESDIS Headquarters (HQ)

- INITIATIVE: Coordinate in conjunction with NOAA, the deployment of the new patch management tool Secure Elements
 - PLANNED RESULTS: All centers and offices using the same application tool and strategy
 - IMPACT/BENEFIT: Assures all required patches installed, which improves the IT Security posture and improves governance by the delivery of uniform reports
- INITIATIVE: Develop an enhanced HQ IT Security Certification & Accreditation (C&A) package
 - PLANNED RESULTS: Department-approved C&A package in place for HQ
 - IMPACT/BENEFIT: Improve the IT Security base line
- INITIATIVE: Continue to enhance the IT Security posture with the deployment of Intrusion Detection System/Intrusion Prevention System (IDS/IPS) technology
 - PLANNED RESULTS: IDS/IPS operating
 - IMPACT/BENEFIT: This set of tools will increase our ability to block attacks and provide a window to scan traffic on the LAN, increasing our ability to identify rogue software, hacking attempts and malware.
- INITIATIVE: Develop in-house Penetration Testing Team to cover testing
 - PLANNED RESULTS: A team to be deployed to perform penetration testing
 - IMPACT/BENEFIT: Meet Department policy and improve security posture

NESDIS Integrated Program Office (IPO)

- INITIATIVE: Evaluating Quarantine Technology
 - PLANNED RESULTS: Cost: \$25,000
 - IMPACT/BENEFIT: Capability to enforce IPO's security posture. Ensure all computers within IPO domain meet minimum standards
- INITIATIVE: IT security training for Non-technical personnel in C&A process
 - PLANNED RESULTS: Cost: \$10,000
 - IMPACT/BENEFIT: Understanding and enforcement of IT security program
- INITIATIVE: Vulnerability Assessment/Penetration Testing
 - PLANNED RESULTS: Cost: \$25,000
 - IMPACT/BENEFIT: Perform critical technical security test and evaluation of IPO's system...capability to detect/isolate/mitigate risks...report on overall status of IT security posture.

NOS Certification and Accreditation

- INITIATIVE: NOS will C&A all business essential systems in FY2006.
 - SCHEDULE:
 - Consolidation of multiple systems into 9.
 - Perform thorough risk assessments and controls testing
 - Update policies, plans, and procedures
 - PLANNED RESULTS:
 - Guidance for consistent planning and testing
 - C&A's completed by August 31, 2006
 - IMPACT/BENEFIT:
 - Compliance with FISMA requirements
 - Increased awareness by managers of importance of IT security
 - Improved policies, plans and procedures

NOAA Office of Chief Information Officer

- INITIATIVE: Deployment of the common patch management tool acquired in 4QFY2005
 - SCHEDULE AND PLANNED RESULTS:
 - Deploy patch management tool, 1st Quarter.
 - Validate mitigations of medium or higher vulnerabilities from 2005 baseline using the patch management tool, 3rd Quarter.
- INITIATIVE: Implementation of hardware for an intrusion detection system at the NOAA Seattle, Washington campus as the foundation for a Computer Incident Response capability in Seattle.
 - SCHEDULE AND PLANNED RESULTS: Complete satellite CIRT in Seattle, 2nd Quarter.
- INITIATIVE: Implementation of upgraded and new Firewall segments in conjunction with NOAAnet.
 - SCHEDULE AND PLANNED RESULTS:
 - Purchase intrusion detection/prevention software for major NOAAnet segments: Norman, Seattle, Boulder, Kansas City, Fort Worth, Salt Lake, Silver Spring, Miami, and Bohemia, 2nd Quarter.
 - Operationalize intrusion detection/prevention software for major NOAAnet segments: Norman, Seattle, Boulder, Kansas City, Fort Worth, Salt Lake, Silver Spring, Miami, and Bohemia, 3rd Quarter.
- INITIATIVE: Acquisition and implementation of IV&V contract support to support common NOAA-wide Certification & Accreditation (C&A) requirements, especially penetration and controls testing.
 - SCHEDULE AND PLANNED RESULTS:
 - Award IV&V contract, 3rd Quarter.

- Begin IV&V vulnerability assessment & audits for NOAA IT systems, 3rd Quarter.
- INITIATIVE: Development and execution of the FY2006 C&A schedule
 - SCHEDULE AND PLANNED RESULTS:
 - Complete C&A schedule for FY2006, 1st Quarter.
 - Complete C&As per schedule for Mission Critical and Business Essential systems, 4th Quarter.
 - Complete consolidation of Weather Forecast Offices C&As, 2nd Quarter.
- INITIATIVE: Completion of the FY2006 security awareness training
 - SCHEDULE AND PLANNED RESULTS: Complete annual requirements of awareness program, 2nd Quarter.
- INITIATIVE: Completion of a risk-based assessment of IT systems to determine scope and framework to guide the application of HSPD-12 (Personal Identity Verification – PIV cards)
 - SCHEDULE: 3rd Quarter.
- IMPACT/BENEFIT OF ABOVE IT SECURITY INITIATIVES:
 - Continued implementation of the IT Security architecture with focus on ensuring its “defense in depth” strategy (i.e. multiple layers of security are required).
 - Compliance with policies and laws.
 - Common IT security management and oversight and reporting to ensure rapid responses to issues and data calls while reducing the overall required level of effort.

LIST OF ACRONYMS IN THIS DOCUMENT

1. AFTN: Aeronautical Fixed Telecommunications Network
2. AHIPS: Advanced Hydrologic Prediction System
3. AQ: Air Quality
4. ASOS: Automated Surface Observing System
5. AWIPS: Advanced Weather Interactive Processing System
6. AWPAG: All Weather Precipitation Accumulation Gauge
7. BOM: Business operations manual
8. CDA: Command and Data Acquisition
9. CDMP: Climate Database Modernization Program
10. CLASS: Comprehensive Large Array-Data Stewardship System
11. DME: Development, Modernization or Enhancement
12. EA: Enterprise Architecture
13. ESPC: Environmental Satellite Processing Center
14. FDMS: Federal Docket Management System
15. FEA: Federal Enterprise Architecture
16. FIS: Fisheries Information System
17. FTP/VPN: File Transfer Protocol/ Virtual Private Network
18. GEO IDE: Global Earth Observing Integrated Data Environmental
19. GOES: Geostationary Operational Environmental Satellites
20. GSFC: Goddard Space Flight Center
21. IOOS: Integrated Ocean Observation System
22. ISMO: Information Systems Management Office

LIST OF ACRONYMS IN THIS DOCUMENT

23. LFW: Local Forecasts and Warnings
24. MBDA: Minority Business Development
25. NAHWN: NOAA Weather Radio (NWR) All Hazards Weather Network aka All Hazards Emergency Message Collection System (HazCollect)
26. NCDC: National Climatic Data Center
27. NCDDC: National Coastal Data Development Center
28. NCEP: National Centers for Environmental Prediction
29. NDE: NPOESS Data Exploitation
30. NDFD: National Digital Forecast Database
31. NERON: NOAA Environmental Real-Time Observations Network
32. NEXRAD: Next Generation Weather Radar
33. NGDC: National Geophysical Data Center
34. NITRB: NOAA IT Review Board
35. NNDC: NOAA National Data Center
36. NODC: National Oceanographic Data Center
37. NPOESS: National Polar-orbiting Operational Environmental Satellite System
38. NPP: NPOESS Preparatory Project
39. NVDS: National Virtual Data System
40. NWLON: National Water Level Observation Network
41. NWSTG: National Weather Service Telecommunication Gateway
42. OHD: Office of Hydrologic Development
43. OSDPD: Office of Satellite Data Processing and Distribution
44. OSO: Office of Satellite Operations
45. POES: Polar-Orbiting Operational Environmental Satellites

LIST OF ACRONYMS IN THIS DOCUMENT

- 46. PORTS: Physical Oceanographic Real-time System
- 47. PPBES: Planning, Programming, Budgeting, and Execution System
- 48. PRIME: Paperwork and Regulatory Information Management Environment
- 49. SAFESEAS: System on AWIPS for Forecasting and Evaluation of Seas and Lakes
- 50. SARSAT: Search and Rescue Satellite-Aided Tracking
- 51. SATEPS: Satellite Environmental Processing System
- 52. SOCC: Satellite Operations Control Center
- 53. VMS: Vessel Monitoring System
- 54. WWS: Weather & Water Science