Exhibit 300: Capital Asset Plan and Business Case Summary

Part I: Summary Information And Justification (All Capital Assets)

Section A: Overview (All Capital Assets)

1. Date of Submission:	1/7/2008
2. Agency:	Department of Commerce
3. Bureau:	Noaa (Oar)
4. Name of this Capital Asset:	NOAA/OAR/ NOAA Research Scientific Computing Support
5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.)	006-48-01-13-01-3504-00
6. What kind of investment will this be in FY2009? (Please NOTE: Investments moving to O&M in FY2009, with Planning/Acquisition activities prior to FY2009 should not select O&M. These investments should indicate their current status.)	Operations and Maintenance
7. What was the first budget year this investment was submitted to OMB?	FY2003

8. Provide a brief summary and justification for this investment, including a brief description of how this closes in part or in whole an identified agency performance gap:

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. These IT investments are needed to sustain the research environment in a steady state and include desktop systems, servers, shared networking and security, COTS scientific software licensing, and maintenance and support contracting services. Without these computing resources, 100% Program requirements cannot be met for achieving research and development mission goal outcomes.

The scientific computing support within the NOAA Research laboratories is a critical resource supporting activities focused on meeting NOAA-wide program goals (Climate, Weather and Water, Ecosystem, and Commerce and Transportation). These activities and their associated performance measures are developed through NOAA's Planning, Programming, Budget, and Execution System (PPBES) and documented in the NOAA Strategic Plan by NOAA's Goal Teams (https://www.ppbs.noaa.gov/performance.html).

NOAA has created two Program Offices that are responsible for integrating Programmatic Goals: Program, Planning, and Integration (PPI) and Program, Analysis, and Evaluation (PAE). These two oversight organizations have established "Goal Teams" to identify baseline Program budgets for each of NOAA's Strategic Goals. The NOAA CIO has asked each of NOAA's CIOs to lead a Goal Team in an advisory capacity for IT investment planning. The NOAA Research CIO is the assigned CIO Council member who provides representation on the Climate Goal Team throughout the Planning, Programming, Budget, and Execution phases of the budget process. This position establishes the two way communication needed between the Goal Team leads and Program Managers and the NOAA CIOs and IT system owners for identifying IT resources in both current and 100% Program requirements early in the planning process (Program Operational Plans).

9. Did the Agency's Executive/Investment Committee approve this request?	Yes
a. If "yes," what was the date of this approval?	10/1/2003
10. Did the Project Manager review this Exhibit?	Yes
12. Has the agency developed and/or promoted cost effective, energy-efficient and environmentally sustainable techniques or practices for this project?	Yes
a. Will this investment include electronic assets (including computers)?	Yes
b. Is this investment for new construction or major retrofit of a Federal building or facility? (answer applicable to non-IT assets only)	No
1. If "yes," is an ESPC or UESC being used to help fund this investment?	
2. If "yes," will this investment meet sustainable design principles?	
3. If "yes," is it designed to be 30% more energy	

efficient than relevant code?

13. Does this investment directly support one of the PMA initiatives?	Yes
If "yes," check all that apply:	Competitive Sourcing
a. Briefly and specifically describe for each selected how this asset directly supports the identified initiative(s)? (e.g. If E-Gov is selected, is it an approved shared service provider or the managing partner?)	Meets OMB's E-gov IT Infrastructure Line of Business Initiative, alignment with Sec. Evans infrastructure task force, led by the GSA, which "will consider consolidating help desks, data centers, data networks, voice networks and seat/desktop management". 2007 Proposal Reflects OMB's Emphasis on Blending Tech into Business Processes, GCN, 02/20/2006
14. Does this investment support a program assessed using the Program Assessment Rating Tool (PART)? (For more information about the PART, visit www.whitehouse.gov/omb/part.)	No
a. If "yes," does this investment address a weakness found during a PART review?	
b. If "yes," what is the name of the PARTed program?	
c. If "yes," what rating did the PART receive?	
15. Is this investment for information technology?	Yes

If the answer to Question 15 is "Yes," complete questions 16-23 below. If the answer is "No," do not answer questions 16-23.

For information technology investments only:

16. What is the level of the IT Project? (per CIO Council PM Guidance)	Level 2
17. What project management qualifications does the Project Manager have? (per CIO Council PM Guidance)	(1) Project manager has been validated as qualified for this investment
18. Is this investment or any project(s) within this investment identified as "high risk" on the Q4 - FY 2007 agency high risk report (per OMB Memorandum M-05-23)	No
19. Is this a financial management system?	No
a. If "yes," does this investment address a FFMIA compliance area?	
1. If "yes," which compliance area:	
2. If "no," what does it address?	

    b. If "yes," please identify the system name(s) and system acronym(s) as reported in the most recent financial systems inventory update required by Circular A-11 section 52

20. What is the percentage breakout for the total FY2009 funding request for the following? (This should total 100%)

Hardware	11
Software	4
Services	36
Other	49
21. If this project produces information dissemination products for the public, are these products published to the Internet in conformance with OMB Memorandum 05-04 and included in your agency inventory, schedules and priorities?	N/A
23. Are the records produced by this investment appropriately scheduled with the National Archives and Records Administration's approval?	No

Question 24 must be answered by all Investments:

24. Does this investment directly support one of the GAO High Risk Areas?	No

Section B: Summary of Spending (All Capital Assets)

1. Provide the total estimated life-cycle cost for this investment by completing the following table. All amounts represent

budget authority in millions, and are rounded to three decimal places. Federal personnel costs should be included only in the row designated "Government FTE Cost," and should be excluded from the amounts shown for "Planning," "Full Acquisition," and "Operation/Maintenance." The "TOTAL" estimated annual cost of the investment is the sum of costs for "Planning," "Full Acquisition," and "Operation/Maintenance." For Federal buildings and facilities, life-cycle costs should include long term energy, environmental, decommissioning, and/or restoration costs. The costs associated with the entire life-cycle of the investment should be included in this report.

Table 1: SUMMARY OF SPENDING FOR PROJECT PHASES (REPORTED IN MILLIONS) (Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)								
	PY-1 and earlier	PY 2007	CY 2008	BY 2009	BY+1 2010	BY+2 2011	BY+3 2012	BY+4 and beyond	Total
Planning:	0	0	0	0					
Acquisition:	0	0	0	0					
Subtotal Planning & Acquisition:	0	0	0	0					
Operations & Maintenance:	39.1679	9.06857	9.31461	10.4262					
TOTAL:	39.1679	9.06857	9.31461	10.4262					
Government FTE Costs should not be included in the amounts provided above.								
Government FTE Costs	26.23286	7.83713	8.39768	8.77777					
Number of FTE represented by Costs:	135	49	50	51					

Note: For the multi-agency investments, this table should include all funding (both managing partner and partner agencies). Government FTE Costs should not be included as part of the TOTAL represented.

2. Will this project require the agency to hire additional FTE's?   No

  a. If "yes," How many and in what year?

Section C: Acquisition/Contract Strategy (All Capital Assets)

1. Complete the table for all (including all non-Federal) contracts and/or task orders currently in place or planned for this investment. Total Value should include all option years for each contract. Contracts and/or task orders completed do not need to be included.

Exhibit 300: NOAA/OAR/ NOAA Research Scientific Computing Support (Revision 15)

Contracts/Task Orders Table:																* Costs in millions
Contract or Task Order Number	Type of Contract/ Task Order	Has the contract been awarded (Y/N)	If so what is the date of the award? If not, what is the planned award date?	Start date of Contract/ Task Order	End date of Contract/ Task Order	Total Value of Contract/ Task Order ($M)	Is this an Interagency Acquisition ? (Y/N)	Is it performance based? (Y/N)	Competitively awarded? (Y/N)	What, if any, alternative financing option is being used? (ESPC, UESC, EUL, N/A)	Is EVM in the contract? (Y/N)	Does the contract include the required security & privacy clauses? (Y/N)	Name of CO	CO Contact information (phone/email)	Contracting Officer Certification Level (Level 1,2,3,N/A)	If N/A, has the agency determined the CO assigned has the competencies and skills necessary to support this acquisition? (Y/N)
50CMAA900 048	CPFF	Yes	10/20/2003	11/17/2004	11/16/2009	11.475	No	Yes	Yes	NA	No	Yes		pstang@doc. gov		
GS35F5355H	T&M	Yes	9/8/2006	9/15/2006	9/14/2008	1.45	No	Yes	Yes	NA	No	Yes		Mitchell.Ross @noaa.gov		
RA133R-04-CN-0006	CPFF	Yes	2/22/2004	2/22/2004	2/21/2009	15.818	No	Yes	Yes	NA	No	Yes		jan.clark@no aa.gov		

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why:

IT steady state operational/maintenance services

3. Do the contracts ensure Section 508 compliance? Yes

    a. Explain why: The DOC and NOAA Contracting Offices require the inclusion of Section 508 compliance language in the statement of work for all IT development service contracts. In order to procure all COTS equipment and software, requestors are required to include with their purchase order or file the Government purchase card invoices as well as the vendor's statement of compliance (Voluntary Product Accessibility Template (VPAT)).

4. Is there an acquisition plan which has been approved in accordance with agency requirements? Yes

    a. If "yes," what is the date? 3/16/2006

    b. If "no," will an acquisition plan be developed?

        1. If "no," briefly explain why:

Section D: Performance Information (All Capital Assets)

In order to successfully address this area of the exhibit 300, performance goals must be provided for the agency and be linked to the annual performance plan. The investment must discuss the agency's mission and strategic goals, and performance measures (indicators) must be provided. These goals need to map to the gap in the agency's strategic goals and objectives this investment is designed to fill. They are the internal and external performance benefits this investment is expected to deliver to the agency (e.g., improve efficiency by 60 percent, increase citizen participation by 300 percent a year to achieve an overall citizen participation rate of 75 percent by FY 2xxx, etc.). The goals must be clearly measurable investment outcomes, and if applicable, investment outputs. They do not include the completion date of the module, milestones, or investment, or general goals, such as, significant, better, improved that do not have a quantitative or qualitative measure.

Agencies must use the following table to report performance goals and measures for the major investment and use the Federal Enterprise Architecture (FEA) Performance Reference Model (PRM). Map all Measurement Indicators to the corresponding "Measurement Area" and "Measurement Grouping" identified in the PRM. There should be at least one Measurement Indicator for each of the four different Measurement Areas (for each fiscal year). The PRM is available at www.egov.gov. The table can be extended to include performance measures for years beyond FY 2009.

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2007	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Customer Results	Customer Benefit	Customer Satisfaction	Climate Observation and Analysis: Integrated Ocean Observing System (IOOS) Implemented	57%	59%	59%
2007	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	Increased number of ecological forecasts and living marine resource assessments used by managers that incorporate indices of climate variability and change	1	1	5
2007	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	Reduce uncertainty in model simulations of the influence of aerosols on climate	10%	10%	10%
2007	2.1 Develop tools and	Mission and Business Results	Environmental Management	Environmental Monitoring and	Reduce the uncertainty in	+/- 0.4 gtC	+/-.0.4 gtC	+/- 0.4 gtC

Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
Performance Information Table								
	capabilities that improve the productivity, quality, dissemination, and efficiency of research.			Forecasting	the magnitude of the North American carbon uptake			
2007	3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs.	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	Annual number of coastal, marine, and Great Lakes ecological characterizations that meet mangement needs	0	27	27
2007	3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs.	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	Cumulative number of coastal, marine and Great Lakes issue-based forecasting capabilities developed and used for management	0	35	35
2007	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	Climate Observation and Analysis; CDRs undergoing operational testing and validation. (Cumulative Total #)	0	1	1
2007	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Processes and Activities	Management and Innovation	Knowledge Management	Increase contribution to national and international climate-relevant products and assessments	.03	.25	.25
2007	2.1 Develop tools and capabilities that improve the productivity, quality, dissemination, and efficiency of research.	Processes and Activities	Management and Innovation	Knowledge Management	U.S. temperature forecasts (cumulative skill score over the regions where predictions are made)	25	19	28.7
2007	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Processes and Activities	Management and Innovation	Knowledge Management	Improve society's ability to plan and respond to climate variability and change using NOAA climate products and information	32	32 regionally focused climate impacts and adaptation studies communicated to decision makers	32
2007	2.1 Develop tools and capabilities that improve the productivity, quality, dissemination, and efficiency of research.	Processes and Activities	Management and Innovation	Knowledge Management	Percentage of tools, technologies, and information services that are used by NOAA partners/customers to improve ecosystem-based management	0%	85%	85%
2007	2.1 Develop tools and	Processes and Activities	Quality	Errors	Reduce the error in global	.51C	.5C	.53C

Performance Information Table								
Fiscal Year	**Strategic Goal(s) Supported**	**Measurement Area**	**Measurement Category**	**Measurement Grouping**	**Measurement Indicator**	**Baseline**	**Target**	**Actual Results**
	capabilities that improve the productivity, quality, dissemination, and efficiency of research.				measurement of sea surface temperature			
2007	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Information and Data	Data Reliability and Quality	Improved estimates of the magnitude, associated error, and sources of variability on atmospheric forcing agents	34	39	39
2007	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Information and Data	Data Reliability and Quality	Determine the National explained variance (%) for temperature and precipitation for the contiguous United States using USCRN stations	temperature (97.1%); precipitation (91.9%)	temperature (97.2%); precipitation (92.6%)	temperature (97.7%); precipitation (93.8%)
2008	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Customer Results	Customer Benefit	Customer Satisfaction	Climate Observation and Analysis: Integrated Ocean Observing System (IOOS) Implemented	59%	59%	
2008	2.1 Develop tools and capabilities that improve the productivity, quality, dissemination, and efficiency of research.	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	Reduce the uncertainty in the magnitude of the North American carbon uptake	+/- 0.4 gtC	+/-.0.35 gtC	
2008	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	Climate Observation and Analysis; CDRs undergoing operational testing and validation. (Cumulative Total #)	1	2	
2008	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	Increased number of ecological forecasts and living marine resource assessments used by managers that incorporate indices of climate variability and change	5	5	
2008	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Processes and Activities	Management and Innovation	Knowledge Management	Increase contribution to national and international climate-relevant products and assessments	.25	TBD	

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2008	2.1 Develop tools and capabilities that improve the productivity, quality, dissemination, and efficiency of research.	Processes and Activities	Management and Innovation	Knowledge Management	U.S. temperature forecasts (cumulative skill score over the regions where predictions are made)	28.7	19	
2008	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Processes and Activities	Management and Innovation	Knowledge Management	Improve society's ability to plan and respond to climate variability and change using NOAA climate products and information	32	35	
2008	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Processes and Activities	Quality	Errors	Reduce uncertainty in model simulations of the influence of aerosols on climate.	10%	15%	
2008	2.1 Develop tools and capabilities that improve the productivity, quality, dissemination, and efficiency of research.	Processes and Activities	Quality	Errors	Reduce the error in global measurement of sea surface temperature	.53C	.5C	
2008	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Information and Data	Data Reliability and Quality	Determine the National explained variance (%) for temperature and precipitation for the contiguous United States using USCRN stations	temperature (97.7%); precipitation (93.8%)	temperature (98%); precipitation (95%)	
2008	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Information and Data	Data Reliability and Quality	Improved estimates of the magnitude, associated error, and sources of variability on atmospheric forcing agents	39	TBD	
2009	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Customer Results	Customer Benefit	Customer Satisfaction	Climate Observation and Analysis: Integrated Ocean Observing System (IOOS) Implemented	59%	62%	
2009	2.1 Develop tools and capabilities that improve the productivity, quality, dissemination, and efficiency of research.	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	Reduce the uncertainty in the magnitude of the North American carbon uptake	+/- 0.35 gtC	+/-.0.3 gtC	
2009	3.1 Advance understanding	Mission and Business Results	Environmental Management	Environmental Monitoring and	Climate Observation and	2	TBD	

Performance Information Table								
Fiscal Year	**Strategic Goal(s) Supported**	**Measurement Area**	**Measurement Category**	**Measurement Grouping**	**Measurement Indicator**	**Baseline**	**Target**	**Actual Results**
	and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.			Forecasting	Analysis; CDRs undergoing operational testing and validation. (Cumulative Total #)			
2009	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	Increased number of ecological forecasts and living marine resource assessments used by managers that incorporate indices of climate variability and change	5	TBD	
2009	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Processes and Activities	Management and Innovation	Knowledge Management	Increase contribution to national and international climate-relevant products and assessments	.25	TBD	
2009	2.1 Develop tools and capabilities that improve the productivity, quality, dissemination, and efficiency of research.	Processes and Activities	Management and Innovation	Knowledge Management	U.S. temperature forecasts (cumulative skill score over the regions where predictions are made)	19	20	
2009	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Processes and Activities	Management and Innovation	Knowledge Management	Improve society's ability to plan and respond to climate variability and change using NOAA climate products and information	35	37	
2009	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Processes and Activities	Quality	Errors	Reduce uncertainty in model simulations of the influence of aerosols on climate.	15%	20%	
2009	2.1 Develop tools and capabilities that improve the productivity, quality, dissemination, and efficiency of research.	Processes and Activities	Quality	Errors	Reduce the error in global measurement of sea surface temperature	.5C	TBD	
2009	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Information and Data	Data Reliability and Quality	Determine the National explained variance (%) for temperature and precipitation for the contiguous United States using USCRN stations	temperature (98%); precipitation (95%)	temperature (98%); precipitation (95.1%)	

Performance Information Table								
Fiscal Year	**Strategic Goal(s) Supported**	**Measurement Area**	**Measurement Category**	**Measurement Grouping**	**Measurement Indicator**	**Baseline**	**Target**	**Actual Results**
2009	3.1 Advance understanding and predict changes in the Earth's environment to meet America's economic, social, and environmental needs.	Technology	Information and Data	Data Reliability and Quality	Improved estimates of the magnitude, associated error, and sources of variability on atmospheric forcing agents	39	TBD	

Section E: Security and Privacy (IT Capital Assets only)

In order to successfully address this area of the business case, each question below must be answered at the system/application level, not at a program or agency level. Systems supporting this investment on the planning and operational systems security tables should match the systems on the privacy table below. Systems on the Operational Security Table must be included on your agency FISMA system inventory and should be easily referenced in the inventory (i.e., should use the same name or identifier).

For existing Mixed-Life Cycle investments where enhancement, development, and/or modernization is planned, include the investment in both the "Systems in Planning" table (Table 3) and the "Operational Systems" table (Table 4). Systems which are already operational, but have enhancement, development, and/or modernization activity, should be included in both Table 3 and Table 4. Table 3 should reflect the planned date for the system changes to be complete and operational, and the planned date for the associated C&A update. Table 4 should reflect the current status of the requirements listed. In this context, information contained within Table 3 should characterize what updates to testing and documentation will occur before implementing the enhancements; and Table 4 should characterize the current state of the materials associated with the existing system.

All systems listed in the two security tables should be identified in the privacy table. The list of systems in the "Name of System" column of the privacy table (Table 8) should match the systems listed in columns titled "Name of System" in the security tables (Tables 3 and 4). For the Privacy table, it is possible that there may not be a one-to-one ratio between the list of systems and the related privacy documents. For example, one PIA could cover multiple systems. If this is the case, a working link to the PIA may be listed in column (d) of the privacy table more than once (for each system covered by the PIA).

The questions asking whether there is a PIA which covers the system and whether a SORN is required for the system are discrete from the narrative fields. The narrative column provides an opportunity for free text explanation why a working link is not provided. For example, a SORN may be required for the system, but the system is not yet operational. In this circumstance, answer "yes" for column (e) and in the narrative in column (f), explain that because the system is not operational the SORN is not yet required to be published.

Please respond to the questions below and verify the system owner took the following actions:

1. Have the IT security costs for the system(s) been identified and integrated into the overall costs of the investment: Yes

    a. If "yes," provide the "Percentage IT Security" for the budget year: 9

2. Is identifying and assessing security and privacy risks a part of the overall risk management effort for each system supporting or part of this investment. Yes

5. Have any weaknesses, not yet remediated, related to any of the systems part of or supporting this investment been identified by the agency or IG? No

    a. If "yes," have those weaknesses been incorporated into the agency's plan of action and milestone process?

8. Planning & Operational Systems - Privacy Table:					
(a) Name of System	**(b) Is this a new system? (Y/N)**	**(c) Is there at least one Privacy Impact Assessment (PIA) which covers this system? (Y/N)**	**(d) Internet Link or Explanation**	**(e) Is a System of Records Notice (SORN) required for this system? (Y/N)**	**(f) Internet Link or Explanation**
NOAA Fleet	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	
OAR Headquarters	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	

8. Planning & Operational Systems - Privacy Table:					
(a) Name of System	**(b) Is this a new system? (Y/N)**	**(c) Is there at least one Privacy Impact Assessment (PIA) which covers this system? (Y/N)**	**(d) Internet Link or Explanation**	**(e) Is a System of Records Notice (SORN) required for this system? (Y/N)**	**(f) Internet Link or Explanation**
Climate Diagnostics Center	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	
Aeronomy Laboratory	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	
Atlantic Oceanographic and Meteorological Lab	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	
Air Resources Laboratory Headquarters	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	
Air Resources Laboratory (Surface Radiation Research Branch)	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	
Air Resources Laboratory (Atmospheric Sciences Modeling Division)	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	
Air Resources Laboratory (Atmospheric Turbulence Diffusion Division)	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	
Air Resources Laboratory (Field Research Division)	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	
Air Resources Laboratory (Special Operations and Research Division)	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	
Climate Monitoring and Diagnostics Laboratory	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	
Climate Monitoring and Diagnostics Laboratory Baseline Observatories	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	
Forecast Systems Laboratory	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	
Geophysical Fluid Dynamics Laboratory	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	
Great Lakes Environmental Research Laboratory	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	
National Severe Storms Laboratory	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	
Pacific Marine Environmental Laboratory	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	

8. Planning & Operational Systems - Privacy Table:

(a) Name of System	(b) Is this a new system? (Y/N)	(c) Is there at least one Privacy Impact Assessment (PIA) which covers this system? (Y/N)	(d) Internet Link or Explanation	(e) Is a System of Records Notice (SORN) required for this system? (Y/N)	(f) Internet Link or Explanation
Environmental Technology Laboratory	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	

Details for Text Options:

Column (d): If yes to (c), provide the link(s) to the publicly posted PIA(s) with which this system is associated. If no to (c), provide an explanation why the PIA has not been publicly posted or why the PIA has not been conducted.

Column (f): If yes to (e), provide the link(s) to where the current and up to date SORN(s) is published in the federal register. If no to (e), provide an explanation why the SORN has not been published or why there isn't a current and up to date SORN.

Note: Working links must be provided to specific documents not general privacy websites. Non-working links will be considered as a blank field.

Section F: Enterprise Architecture (EA) (IT Capital Assets only)

In order to successfully address this area of the capital asset plan and business case, the investment must be included in the agency's EA and Capital Planning and Investment Control (CPIC) process and mapped to and supporting the FEA. The business case must demonstrate the relationship between the investment and the business, performance, data, services, application, and technology layers of the agency's EA.

1. Is this investment included in your agency's target enterprise architecture?   Yes

    a. If "no," please explain why?

2. Is this investment included in the agency's EA Transition Strategy?   Yes

    a. If "yes," provide the investment name as identified in the Transition Strategy provided in the agency's most recent annual EA Assessment.   Cimate Goal

    b. If "no," please explain why?

3. Is this investment identified in a completed (contains a target architecture) and approved segment architecture?   No

    a. If "yes," provide the name of the segment architecture as provided in the agency's most recent annual EA Assessment.

4. Service Component Reference Model (SRM) Table:
Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to http://www.egov.gov.

Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
EC-COR Ecosystems: Corals	OAC - Integrated Coral Reef Ecosystem Observations and Assessments; RDC - Coral Reef decline research	Back Office Services	Data Management	Data Warehouse			No Reuse	1
CL-COA Climate Observation and Analysis	OBS - Observations; ACS - Analysis of the Climate System	Back Office Services	Data Management	Meta Data Management	Meta Data Management	006-48-01-13-01-3205-00	Internal	15
WW-WWS Weather and Water: Science, Technology, and Infusion	RND - Research and Development; RDS - Research and Development for Severe Thunderstorm, Tornado, and Hazardous Weather Forecasts and	Back Office Services	Development and Integration	Software Development			No Reuse	47

4. Service Component Reference Model (SRM) Table:
Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to http://www.egov.gov.

Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
	Warnings; RDQ - Research and Development for Hurricane; Observing and Predicton							
MS-SEC Homeland Security	RRO - Emergency Readiness and Incident Management	Business Analytical Services	Business Intelligence	Decision Support and Planning			No Reuse	0
EC-EOP Ecosystem Observations	FMA - Ecosystem Monitoring, Assessment, and Forecasting; ESM - Economic and Social Science Monitoring and Forecasting	Business Analytical Services	Knowledge Discovery	Data Mining			No Reuse	1
CL-CPP Climate Prediction and Projections	CRD - Applied Climate Research and Development; TEM - Test and Evaluate Models	Business Analytical Services	Knowledge Discovery	Modeling			No Reuse	11
WW-MOD Weather and Water: Environmental Modeling	DTT - Develop, Test, and Transition Capabilities; OBR - Observations and Research	Business Analytical Services	Knowledge Discovery	Modeling			No Reuse	9
WW-AQL Weather and Water: Air Quality	ADT - Quantify Air Quality and Deposition Trends; KAP - Understand Key AQ Processes; AQP - Improve Air Quality Prediction;	Business Analytical Services	Knowledge Discovery	Modeling			No Reuse	4
EC-ERP Ecosystem Research	FCT - Develop Forecasts; ETT - Develop Environmental tools and technologies	Business Analytical Services	Visualization	Graphing / Charting			No Reuse	6
MS-ITS Mission Support: IT Services	NET - Enterprise Network Operations	Business Management Services	Organizational Management	Network Management	Network Management	006-00-02-00-02-0000-00	Internal	0
CL-CLF Climate Forcing	CCF - Understand the processes that cause climate forcing; CFG - Monitor the climate-forcing gases; RFC - Deliver information on radiative forcing of climate; OCM - Characterize observations for climate models	Digital Asset Services	Knowledge Management	Information Sharing			No Reuse	4
WW-TSU Weather and Water: Tsunami	RCH - Research	Digital Asset Services	Knowledge Management	Knowledge Distribution and Delivery			No Reuse	2
MS-ITS Mission Support: IT Services	SEI - IT Security	Support Services	Security Management	Access Control	Access Control	006-00-02-00-02-0000-00	Internal	0
MS-ITS Mission Support: IT Services	SEI - IT Security	Support Services	Security Management	Certification and Accreditation	Certification and Accreditation	006-00-02-00-02-0000-00	Internal	0

4. Service Component Reference Model (SRM) Table:
Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to http://www.egov.gov.

Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
MS-ITS Mission Support: IT Services	SEI - IT Security	Support Services	Security Management	Cryptography	Cryptography	006-00-02-00-02-0000-00	Internal	0
MS-ITS Mission Support: IT Services	SEI - IT Security	Support Services	Security Management	FISMA Management and Reporting	FISMA Management and Reporting	006-00-02-00-02-0000-00	Internal	0
MS-ITS Mission Support: IT Services	SEI - IT Security	Support Services	Security Management	Identification and Authentication	Identification and Authentication	006-00-02-00-02-0000-00	Internal	0
MS-ITS Mission Support: IT Services	SEI - IT Security	Support Services	Security Management	Intrusion Detection	Intrusion Detection	006-00-02-00-02-0000-00	Internal	0
MS-ITS Mission Support: IT Services	SEI - IT Security	Support Services	Security Management	Virus Protection	Virus Protection	006-00-02-00-02-0000-00	Internal	0

  a. Use existing SRM Components or identify as "NEW". A "NEW" component is one not already identified as a service component in the FEA SRM.

  b. A reused component is one being funded by another investment, but being used by this investment. Rather than answer yes or no, identify the reused service component funded by the other investment and identify the other investment using the Unique Project Identifier (UPI) code from the OMB Ex 300 or Ex 53 submission.

  c. 'Internal' reuse is within an agency. For example, one agency within a department is reusing a service component provided by another agency within the same department. 'External' reuse is one agency within a department reusing a service component provided by another agency in another department. A good example of this is an E-Gov initiative service being reused by multiple organizations across the federal government.

  d. Please provide the percentage of the BY requested funding amount used for each service component listed in the table. If external, provide the percentage of the BY requested funding amount transferred to another agency to pay for the service. The percentages in the column can, but are not required to, add up to 100%.

5. Technical Reference Model (TRM) Table:
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.

FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Software Development	Component Framework	Business Logic	Platform Independent	
Software Development	Component Framework	Business Logic	Platform Independent	
Software Development	Component Framework	Business Logic	Platform Independent	
Software Development	Component Framework	Business Logic	Platform Independent	
Software Development	Component Framework	Business Logic	Platform Independent	
Software Development	Component Framework	Business Logic	Platform Independent	
Software Development	Component Framework	Business Logic	Platform Independent	
Software Development	Component Framework	Business Logic	Platform Independent	
Software Development	Component Framework	Data Interchange	Data Exchange	
Software Development	Component Framework	Data Management	Database Connectivity	
Software Development	Component Framework	Presentation / Interface	Content Rendering	
Graphing / Charting	Component Framework	Presentation / Interface	Content Rendering	
Graphing / Charting	Component Framework	Presentation / Interface	Content Rendering	
Graphing / Charting	Component Framework	Presentation / Interface	Content Rendering	
Graphing / Charting	Component Framework	Presentation / Interface	Content Rendering	
Knowledge Distribution and Delivery	Component Framework	Presentation / Interface	Static Display	
Access Control	Component Framework	Security	Certificates / Digital Signatures	
Identification and Authentication	Component Framework	Security	Certificates / Digital Signatures	
Cryptography	Component Framework	Security	Supporting Security Services	
Cryptography	Component Framework	Security	Supporting Security Services	
Identification and Authentication	Component Framework	Security	Supporting Security Services	
Intrusion Detection	Component Framework	Security	Supporting Security Services	

5. Technical Reference Model (TRM) Table:
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.

FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Cryptography	Component Framework	Security	Supporting Security Services	
Information Sharing	Component Framework	Security	Supporting Security Services	
Knowledge Distribution and Delivery	Service Access and Delivery	Access Channels	Collaboration / Communications	
Information Sharing	Service Access and Delivery	Access Channels	Other Electronic Channels	
Modeling	Service Access and Delivery	Access Channels	Other Electronic Channels	
Knowledge Distribution and Delivery	Service Access and Delivery	Access Channels	Other Electronic Channels	
Information Sharing	Service Access and Delivery	Access Channels	Other Electronic Channels	
Knowledge Distribution and Delivery	Service Access and Delivery	Access Channels	Web Browser	
Knowledge Distribution and Delivery	Service Access and Delivery	Access Channels	Web Browser	
Decision Support and Planning	Service Access and Delivery	Service Requirements	Hosting	
Access Control	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Certification and Accreditation	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Information Sharing	Service Access and Delivery	Service Transport	Service Transport	
Information Sharing	Service Access and Delivery	Service Transport	Service Transport	
Identification and Authentication	Service Access and Delivery	Service Transport	Service Transport	
Access Control	Service Access and Delivery	Service Transport	Service Transport	
Network Management	Service Access and Delivery	Service Transport	Service Transport	
Network Management	Service Access and Delivery	Service Transport	Supporting Network Services	
Network Management	Service Access and Delivery	Service Transport	Supporting Network Services	
Network Management	Service Access and Delivery	Service Transport	Supporting Network Services	
Network Management	Service Access and Delivery	Service Transport	Supporting Network Services	
Network Management	Service Access and Delivery	Service Transport	Supporting Network Services	
Network Management	Service Access and Delivery	Service Transport	Supporting Network Services	
Network Management	Service Interface and Integration	Integration	Middleware	
Software Development	Service Interface and Integration	Interface	Service Description / Interface	
Meta Data Management	Service Interface and Integration	Interface	Service Description / Interface	
Information Sharing	Service Interface and Integration	Interoperability	Data Format / Classification	
Information Sharing	Service Interface and Integration	Interoperability	Data Format / Classification	
Data Mining	Service Platform and Infrastructure	Database / Storage	Storage	
Information Sharing	Service Platform and Infrastructure	Database / Storage	Storage	
Information Sharing	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Data Warehouse	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	
Intrusion Detection	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	
Virus Protection	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	
Access Control	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	
Information Sharing	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	
Software Development	Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	
Software Development	Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	
FISMA Management and Reporting	Service Platform and Infrastructure	Software Engineering	Test Management	
Software Development	Service Platform and Infrastructure	Support Platforms	Platform Independent	

5. Technical Reference Model (TRM) Table: To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.				
FEA SRM Component (a)	**FEA TRM Service Area**	**FEA TRM Service Category**	**FEA TRM Service Standard**	**Service Specification (b) (i.e., vendor and product name)**
Software Development	Service Platform and Infrastructure	Support Platforms	Platform Independent	
Information Sharing	Service Platform and Infrastructure	Support Platforms	Platform Independent	

    a. Service Components identified in the previous question should be entered in this column. Please enter multiple rows for FEA SRM Components supported by multiple TRM Service Specifications

    b. In the Service Specification field, agencies should provide information on the specified technical standard or vendor product mapped to the FEA TRM Service Standard, including model or version numbers, as appropriate.

6. Will the application leverage existing components and/or applications across the Government (i.e., FirstGov, Pay.Gov, etc)?   Yes

    a. If "yes," please describe.

Geospatial

Exhibit 300: Part III: For "Operation and Maintenance" investments ONLY (Steady State)

Section A: Risk Management (All Capital Assets)

Part III should be completed only for investments identified as "Operation and Maintenance" (Steady State) in response to Question 6 in Part I, Section A above.

You should have performed a risk assessment during the early planning and initial concept phase of this investment's life-cycle, developed a risk-adjusted life-cycle cost estimate and a plan to eliminate, mitigate or manage risk, and be actively managing risk throughout the investment's life-cycle.

1. Does the investment have a Risk Management Plan?   Yes

    a. If "yes," what is the date of the plan?   7/30/2007

    b. Has the Risk Management Plan been significantly   No
changed since last year's submission to OMB?

    c. If "yes," describe any significant changes:

2. If there currently is no plan, will a plan be developed?

    a. If "yes," what is the planned completion date?

    b. If "no," what is the strategy for managing the risks?

Section B: Cost and Schedule Performance (All Capital Assets)

1. Was operational analysis conducted?   Yes

    a. If "yes," provide the date the analysis was completed.   2/9/2007

    b. If "yes," what were the results?

IT investments are reviewed by project managers to determine if Program benefits have been realized in areas such as lowered cost, reduced cycle time, increased quality, additional quantity of services, and increased speed of service delivery. Sr. IT Mgrs. meet (virtually/face-to-face) with the CIO to discuss impacts on IT requirements; the Technical Committee for Computing Resources meets to evaluate and share solutions across labs.

Technology maintenance/refreshment is applied in post implementation reviews, for COTS software, scientific desktop systems, applications, and server/networking equipment and services for: upgrades - dependencies are vendor announcements of new technology and industry trends (e.g., Linux vs proprietary operating systems); refreshers - includes reaching a predefined age, component failure, repeated maintenance calls on the component failure to meet the system requirement, mission failure, planned obsolescence of the component resulting in the vendor's inability to maintain the component, vendor has gone of business or been acquired; insertion - dependencies on vendor or developer announcements of a product line that meets or increases component capability, vendor or developer announcements of a product line that decreases cost industry trends (e.g. Linux vs. proprietary operating systems), announcements of a milestone of research and development effort resulting in a new capability that can be applied to the laboratory or Program Office.

IT investments are refreshed with the periodic replacement of COTS components; e.g., processors, displays, computer operating systems, commercially available software (CAS), and communications capabilities within larger systems to assure continued supportability of that system through an indefinite service life under the following criteria: existing system component has malfunctioned and either cannot be repaired, or the repair costs exceed the replacement costs; existing system component has reached its life expectancy; surrounding technical infrastructure has evolved and is incompatible with the existing component under consideration; newer technology has come to market that provides more capability for the same or lower Total Cost of Ownership'; and, requirements of the system have evolved to the extent that the system cannot meet the requirements with the existing technology.

OA: http://www.cio.noaa.gov/Policy_Programs/OAR_Scientific_Computing_Support_2006_OA_020907.pdf

    c. If "no," please explain why it was not conducted and if there are any plans to conduct operational analysis in the future:

2. Complete the following table to compare actual cost performance against the planned cost performance baseline. Milestones reported may include specific individual scheduled preventative and predictable corrective maintenance activities, or may be the total of planned annual operation and maintenance efforts).

    a. What costs are included in the reported Cost/Schedule   Contractor and Government
Performance information (Government Only/Contractor
Only/Both)?

    2.b Comparison of Plan vs. Actual Performance Table:

Comparison of Plan vs. Actual Performance Table							
Milestone Number	**Description of Milestone**	**Planned**		**Actual**		**Variance**	
		Completion Date (mm/dd/yyyy)	**Total Cost($M)**	**Completion Date (mm/dd/yyyy)**	**Total Cost($M)**	**Schedule (# days)**	**Cost($M)**
01	Annual Costs	9/30/2003	$14.85248	9/30/2003	$14.85248	0	$0
02	Annual Costs	9/30/2004	$16.40775	9/30/2004	$16.40775	0	$0
03	Annual Costs	9/30/2005	$17.44022	9/30/2005	$17.44022	0	$0
04	Annual Costs	9/30/2006	$16.70031	9/30/2006	$16.70031	0	$0
05	Annual Costs	9/30/2007	$16.9057	9/30/2007	$16.9057	0	$0
06	Annual Costs	9/30/2008	$17.71229				
07	Annual Costs	9/30/2009	$19.20397				