



UNITED STATES DEPARTMENT OF COMMERCE
The Under Secretary of Commerce
for Oceans and Atmosphere
Washington, D.C. 20230

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MEMORANDUM FOR: NOAA Executive Council
Goal and Sub-goal Team Leads

FROM: Conrad C. Lautenbacher, Jr.
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Under Secretary of Commerce for
Oceans and Atmosphere

SUBJECT: FY 07 - FY 11 Program Decision Memorandum

Attached is the summary of decisions relating to the FY 07 - FY 11 NOAA Program development.

1. Purpose. This memorandum promulgates decisions made in the development of the FY 07 - FY 11 NOAA Program.
2. Action. The attachment is part of the official record of decisions made in the FY 07 - FY 11 NOAA Program development. The complete record of program adjustments is recorded in the NOAA Programming Information Reporting System (NOAA PIRS). The decisions made during this phase will be further analyzed for executability, costing accuracy and consistency with NOAA budget priorities during budget development and final funding decisions will be reflected in the FY 07 NOAA Budget submission.
3. Questions or requests for additional information should be referred to the Office of Program Analysis and Evaluation at 202-482-1050.

Attachment

THE ADMINISTRATOR



DISTRIBUTION: LOs

Staff Offices

CFOs

NEP

Chief Financial Officer/Chief Administrative Officer Council

Chief Information Officer Council

Education Council

Human Capital Council

International Affairs Council

Minority Serving Institutions Council

Ocean Council

Observing Systems Council

Platform Allocation Council

Research Council

Safety Council

FY 2007 PROGRAM DECISION MEMORANDUM attachment

All programmatic adjustments with funding implications for the FY 07 NOAA program are reflected in the NOAA Program Information Reporting System (PIRS). A summary PIRS report is posted on the PPBES website. www.ppbs.noaa.gov

Ecosystem

1. Fund Pacific Coastal Salmon Recovery Fund (PCSRF) as shown. Develop a plan for FY 08 to mitigate possible risk and sustain capability within Protected Species. Include analysis showing marginal utility of PCSRF on affected salmon population and impact of reductions to PCSRF in the context of any other program changes affecting salmon.

PCSRF	FY 07	FY 08	FY 09	FY 10	FY 11
Total Funding	\$90.0	\$85.0	\$50.0	\$50.0	\$50.0

2. Building on FY 05 and FY 06 internal NOAA integration and inventory processes, begin implementation of 4 regional ecosystems in FY 07 and complete initiation of ecosystems approaches to management for all 8 ecosystems by FY 08.

3. Building on FY 05 and FY 06 internal NOAA integration and inventory processes, specifically Sea Grant's Regional Research and Information program, begin implementation of modeling framework on 2 regional ecosystems in FY 07 and on all 8 ecosystems by FY 08.

4. In coordination with Mission Support, review criteria for the competitive grants process for National Estuarine Research Reserves (NERRS), and Coastal and Estuarine Land Conservation Program (CELCP) and develop a plan for land acquisition and construction project funding. Provide recommendation for appropriate program location in FY 08 Program Baseline Assessment.

5. Conduct requirements analysis for new fisheries management approaches, e.g., Dedicated Access Privileges, in parallel with Magnuson Stevens Act reauthorization. Include analysis in FY 08 Program Baseline Assessment. Fund support for Individual Fisheries Quota work consistent with FY 06 President's Budget. If increased funding is required, fund from within existing resources.

6. Based on analysis done in the FY 07 budget development, fund aquaculture activities in the FY 07 budget consistent with FY 05 and FY 06 funding decisions. Identify funding source if amount exceeds current program funding. Provide alternative for consolidating and transferring aquaculture related activities to the Aquaculture program in the FY 08 Program Baseline Assessment.

7. Assess impacts of recurring earmarks for invasive species. Identify the earmarks that are consistent with the program/goal mission and that should be NOAA funded. Provide analysis to NOAA Budget Office for use in FY 07 budget development.

8. Fund invasive species activities in the FY 07 budget consistent with FY 05 and FY 06 funding decisions and considering the earmark analysis. Identify funding source if amount exceeds current program funding. Provide alternative for consolidating and transferring invasive species related activities to the Habitat program in the FY 08 Program Baseline Assessment.
9. Fund activities to increase number of accessions held in data archives, size of archives in terabytes and number of ecosystem programs and program components supported with web-based access and management tools.
10. Working with the Integrated Ocean Observing System (IOOS) manager and Data Management and Communication (DMAC) focal point and for observation systems included in the Integrated Ocean Observing System, develop a strategy to converge data from these systems to IOOS DMAC standards. Use the strategy in the development of the FY 08 Program Baseline Assessment.
11. Fund the Integrated Ocean Observing System (IOOS) to advance ecosystem approaches to management particularly systems relevant to habitat, corals, coastal and marine resources and ecosystems observations.
12. Update requirements for at-sea data collection. Validate requirements for Fishery Survey Vessels (FSVs) 5, 6 and 7. If requirements analysis validates need for FSV 7, develop legislative strategy for authorizing vessel acquisition.

Climate

1. In support of the International Polar Year, fund completion of the Alaska Climate Reference Network. Establish Alaska Regional Integrated Sciences and Assessments (RISA) program and expand regional and local climate services.
2. Fund Comprehensive Large Array-data Stewardship System (CLASS).
3. Provide local climate/drought support in the Weather Forecast Offices (WFOs) and provide support to partners to improve coordination and delivery of climate related products and services. Implement focused climate/drought transitions to operations system.
4. Complete deployment of U.S. Climate Reference Network (USCRN) by FY 09 and modernization of U.S. Historical Climatology Network (USHCN) by FY 13.
5. Transfer Cooperative Observer Network legacy system operations and maintenance funding and responsibility to Weather and Water.
6. In coordination with Weather and Water, complete cost of operations and effectiveness analysis for Cooperative Observer Network in FY 05. Determine the requirement for a network modernization program and provide alternatives in the FY 08 Program Baseline Assessment.

7. Work with those agencies that would benefit from the production of national precipitation frequency estimates to establish funding sources to complete the update of the remaining states/territories. Reflect external funding sources in the FY 08 Program Baseline Assessment.
8. In coordination with Weather and Water and Commerce and Transportation, develop a detailed plan for an Integrated Surface Observing System (ISOS). Plan should consider current surface observing systems and proposed modernization efforts and identify overlaps and opportunities for consolidation/efficiency and increased capabilities. Use plan in developing FY 08 Program Baseline Assessments.
9. Fund development of the Integrated Ocean Observing Systems (IOOS) Data Management and Communication (DMAC) subsystems infrastructure.
10. Working with the Integrated Ocean Observing System (IOOS) manager and Data Management and Communication (DMAC) focal point and for observation systems included in the Integrated Ocean Observing System, develop a strategy to converge data from these systems to IOOS DMAC standards. Use the strategy in the development of the FY 08 Program Baseline Assessment.
11. Expand global Integrated Ocean Observing System (IOOS) component and provide technology refresh of Tropical Atmosphere Ocean (TAO) Array.
12. Fund Environmental Modeling operation shortfalls. Increase climate test bed High Performance Computing (HPC) capacity and accelerate transition of products from research into operations.

Weather and Water

1. Fund from within existing National Weather Service (NWS) resources the NOAA Profiler Network (NPN) operations and maintenance and frequency conversion. Validate and adjust out-year requirement for maintenance and frequency modification for NPN during FY 08 Program Baseline Assessment.
2. Fund from within existing National Weather Service (NWS) resources acquisition of National Weather Service Telecommunications Gateway (NWSTG) communication architecture to eliminate NWSTG single point of failure.
3. Fund field tests of Unmanned Aerial Vehicle (UAV) platform, sensors and deployment for NOAA missions. Use field test results to assess viability and procurement of UAVs for NOAA.
4. In coordination with all Mission Goals, Fleet Services, and the NOAA Observing Systems Council, the Science Technology and Infusion (ST&I) program manager will conduct a requirements analysis and evaluation for Unmanned Aerial Vehicles (UAV). Include analysis and alternatives in FY 08 Program Baseline Assessment.

5. Accept transfer of Cooperative Observer Network legacy system operations and maintenance responsibility and funding from Climate.
6. Fund Ocean.US and Regional Associations consistent with the FY 05 appropriation.
7. Working with the Integrated Ocean Observing System (IOOS) manager and Data Management and Communication (DMAC) focal point and for observation systems included in the Integrated Ocean Observing System, develop a strategy to converge data from these systems to IOOS DMAC standards. Use the strategy in the development of the FY 08 Program Baseline Assessment.
8. Fund data processing and quality control of NOAA marine observations consistent with standards described in the Data Management and Communications (DMAC) plan.
9. Fund Earth System Modeling Framework (ESMF) to transition all code by FY 11 and to transition Weather and Research Forecast (WRF) to operations by FY 09.
10. Fund Environmental Modeling operational shortfalls.
11. In coordination with Satellites, support multi-agency collaboration to buy solar wind data to support Geomagnetic Storm Warnings.
12. Continue to participate in interagency discussions to define federal agency roles regarding water quality. Incorporate any resulting role for NOAA in FY 08. In addition to the Hydrology program, Weather and Water will include the interests of other relevant NOAA programs when working with the interagency National Science and Technology Council to develop a plan regarding water quality in accordance with Office of Science and Technology Policy budget priority memo dated August 12, 2004.
13. In coordination with Climate, complete cost of operations and effectiveness analysis for Cooperative Observer Network in FY 05. Determine the requirement for a network modernization program and provide alternatives in the FY 08 Program Baseline Assessment.
14. Fund from within existing FY 07 National Weather Service (NWS) resources maintenance for the Cooperative Observer Network sites modernized FY 03 to FY 06. Defer outyear funding pending results of the Cooperative Observer Network cost of operations and effectiveness analysis and development of a detailed plan with milestones, acquisitions and linkages to current efforts.
15. Analyze impact of delivery of digital services. Provide detail on activities, costs, milestones, objectives, outcomes, and alternatives in the FY 08 Program Baseline Assessment. Consider results of evaluation in formulating Weather and Water input to the NOAA-wide data management plan.

16. Evaluate ways of leveraging Weather Forecast Offices (WFOs). Identify other NOAA products and services that are candidates for distribution via WFOs. Include alternatives in the appropriate FY 08 Program Baseline Assessments.
17. In coordination with Climate and Commerce and Transportation, develop a detailed plan for Integrated Surface Observing System (ISOS). Plan should consider current surface observing systems and proposed modernization efforts and identify overlaps and opportunities for consolidation/efficiency and increased capabilities. Use plan in developing FY 08 Program Baseline Assessments.
18. Fund from within existing resources, all IT security deficiencies related to Space Weather data management.
19. Fund research, operations and maintenance for the United States Tsunami Warning Network consistent with the plan for an "Improved Tsunami Monitoring System." Ensure integration with both the Global and Coastal components of IOOS to optimize forecast/warning systems, support systems (e.g., ship time), and platform utilization for multiple purposes in cooperation with interagency and international partners.

Commerce and Transportation

1. Fund Surface Weather integration of 2300 Road Weather Information System (RWIS) sensors into Meteorological Assimilation Data Ingest System (MADIS), applications research and development and management and partnerships. Fully fund operational support.
2. Develop a plan to transition the National Surface Transportation Weather Observation Database to operations in FY 09 or FY 10. Include alternatives in the FY 08 Program Baseline Assessment.
3. Working with the Integrated Ocean Observing System (IOOS) manager and Data Management and Communication (DMAC) focal point and for observation systems included in the Integrated Ocean Observing System, develop a strategy to converge data from these systems to IOOS DMAC standards. Use the strategy in the development of the FY 08 Program Baseline Assessment.
4. Fund chart efficiency improvements and expand Marine Transportation System (MTS) operational capacity at the National Geophysical Data Center.
5. Fund expansion of cost-shared Physical Oceanographic Real-Time Systems (PORTS®).
6. In coordination with Weather and Water and Climate, develop a detailed plan for Integrated Surface Observing System (ISOS). Plan should consider current surface observing systems and proposed modernization efforts and identify overlaps and opportunities for consolidation/efficiency and increased capabilities. Use plan in developing FY 08 Program Baseline Assessments.

7. Fund coordination and integration of NOAA's emergency response capabilities. Incorporate work done in development of 6 month action plan and provide further definition of requirement, goals, milestones, products and benefits in FY 08 Program Baseline Assessment.

Satellites

1. Fully fund National Polar Orbit Environmental Satellite System (NPOESS) through FY 11. Do not fund Department of Defense unique Information Technology costs.
2. Conduct a comprehensive review and validation of user requirements for the Geostationary Operational Environmental Satellites (GOES) R program. Include in FY 08 Program Baseline Assessment.
3. Fund purchase of solar wind data to support Geomagnetic Storm Warnings through multi-agency collaboration efforts.
4. Fund planning, inventory, and development and implementation of a NOAA Integrated Data Management System of Systems Plan.
5. Provide alternative to fill capability gap in Coronal Mass Ejection (CME) imagery from loss of NASA research satellites in the FY 07 budget development.
6. Working with the Integrated Ocean Observing System (IOOS) manager and Data Management and Communication (DMAC) focal point and for observation systems included in the Integrated Ocean Observing System, develop a strategy to converge data from these systems to IOOS DMAC standards. Use the strategy in the development of the FY 08 Program Baseline Assessment.

Fleet Services

1. Determine the most effective means of meeting the mission goals' disparate at-sea data collection requirements. Include analysis of cost/benefit of NOAA owned and operated vessel, NOAA operated leased vessel, chartered vessel and operator, and other alternatives. Utilize fully developed economic model to estimate costs for ship life cycle and shorter time scales. Model should account for incentives to stimulate private investment in very specific capabilities (i.e., Fishery Survey Vessel (FSV) with International Council for Exploration of the Sea (ICES) quieting). Use the information to modify NOAA's Ship Platform Requirements for the FY 08 Program Baseline Assessment.
2. Consider the most effective means of meeting requirements and using Ecosystems' updated requirements for at-sea data collection, validate requirements for Fishery Survey Vessels (FSVs) 5, 6 and 7.
3. Fund preliminary design work for Fishery Survey Vessel (FSV) 5 in FY 07.

4. Working with the Platform Allocation Council, conduct analysis of utilization of fleet aircraft, considering efficiencies that might be realized if all fleet aircraft were centrally funded. Provide alternatives in the FY 08 Program Baseline Assessment.
5. In coordination with all Mission Goals, the Science Technology and Infusion (ST&I) program manager, and the NOAA Observing Systems Council, assist with requirements analysis and evaluation for Unmanned Aerial Vehicles (UAV).

Mission Support

1. Validate requirement for Mission Support resources. Recommend adjustments as needed in the FY 08 Program Baseline Assessment.
2. Analyze impacts of Grants Online on the workload of the Grants Management Division. Provide appropriate recommendations for staffing changes, if appropriate, in the FY 08 Program Baseline Assessment.
3. Implement a facility capital investment planning process that supports corporate major construction project prioritization for FY 08 planning process.
4. Provide alternatives for developing a facility modernization initiative, reflecting a combined capital construction and major repair program line to fund all major facilities projects in the FY 08 Program Baseline Assessment.
5. Evaluate impact of current business process reengineering efforts on Mission Support programs. Provide alternatives for reallocating resources to address program requirements.
6. In coordination with Ecosystems, establish review and verification processes for land acquisition and construction project costs funded by National Estuarine Research Reserves (NERRS) and National Marine Sanctuary Program (NMSP) grants.
7. In coordination with Fleet Services and Ecosystems, provide alternatives for homeporting Fisheries Survey Vessels (FSVs) 2 and 3. Expedite permits and environmental studies for dredging and pier construction if required. Report on project status in FY 08 Program Baseline Assessment.
8. Fund construction of the La Jolla Southwest Science Center replacement in FY 07 (\$12M). Accepted offsets for the La Jolla project for all goals and sub-goals, except Weather and Water are reflected in PIRS. PIRS currently contains a placeholder within the Local Forecasts and Warning (LFW) program for the Weather and Water offsets. In the development of the FY 07 budget, the National Weather Service (NWS) in coordination with the Weather and Water goal, will review offsets recommended by the goal for executability and revise if necessary.
9. Fund construction of the Pacific Region Center (PRC) in FY 07 (\$35.4M). Accepted offsets for the Pacific Region Center project for all goals and sub-goals, except Weather and Water are reflected in PIRS. PIRS currently contains a placeholder within the Local Forecasts and

Warning (LFW) program for the Weather and Water offsets. In the development of the FY 07 budget, the National Weather Service (NWS) in coordination with the Weather and Water goal, will review offsets recommended by the goal for executability and revise if necessary.

Leadership

1. Fund targeted implementation of U.S. Commission on Ocean Policy (USCOP) education recommendations. Fund support for multi-agency Ocean Education Committee and Office, evaluation of NOAA education activities and formal and informal mission goal education efforts geared for K-12.

Ocean and Observing Systems Councils

1. Using the data and analysis from the work done by the NOAA Observing System Architect (NOSA) and the Office of Program Analysis and Evaluation (PA&E) on observing systems requirements and prioritization, the NOAA Observing System Council (NOSC) will work with Goal Team Leads and Program Managers to develop programmatic detail and prioritization necessary to support investment in NOAA's observing systems. Analysis will be completed in time to support the FY 08 Program Baseline Assessments.

2. Assign a permanent Integrated Ocean Observing System (IOOS) manager and Data Management and Communications (DMAC) focal point with responsibility for integrating and prioritizing programmatic issues related to IOOS and DMAC. Current interim manager and focal point will assume responsibilities for the FY 07 budget development.