

to information technology professionals from developing countries.

Tribal Broadband Connectivity Program.—The agreement directs NTIA to continue engaging with eligible entities of the Tribal Broadband Connectivity Program to ensure the full potential of the investments made in IJA and the Consolidated Appropriations Act, 2021 (Public Law 116-260) in these communities is realized.

PUBLIC WIRELESS SUPPLY CHAIN INNOVATION FUND

Section 9202(a)(1) of the William M. (Mac) Thornberry National Defense Authorization Act for Fiscal Year 2021 (15 U.S.C. 4652(a)(1)) established the Public Wireless Supply Chain Innovation Fund. The agreement allocates the funds according to the amounts listed in the following table.

DEPARTMENT OF COMMERCE ALLOCATION OF NATIONAL TELECOMMUNICATIONS AND INFORMATION ADMINISTRATION FUNDS: CHIPS ACT FISCAL YEAR 2023

(in thousands of dollars)

Account—Project and Activity	Amount
Public Wireless Supply Chain Innovation Fund	\$1,133,000
Administrative Expenses	(67,500)
Office of the Inspector General, Salaries and Expenses	20,000
Total	\$1,350,000

UNITED STATES PATENT AND TRADEMARK OFFICE

SALARIES AND EXPENSES

(INCLUDING TRANSFERS OF FUNDS)

The agreement includes language making available to the United States Patent and Trademark Office (USPTO) \$4,253,404,000, to be derived from offsetting fee collections estimated for fiscal year 2023 by the Congressional Budget Office.

For fiscal year 2023, USPTO is directed to continue following the directives and reporting requirements in the joint explanatory statement accompanying Public Law 117-103 on “Intellectual Property Attachés” as well as the directive included in Senate Report 116-127 and adopted by Public Law 116-93 under the heading “Intellectual Property Theft.”

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

The agreement includes \$1,627,285,000 for the National Institute of Standards and Technology (NIST).

SCIENTIFIC AND TECHNICAL RESEARCH AND SERVICES

(INCLUDING TRANSFER OF FUNDS)

The agreement provides \$953,000,000 for NIST’s Scientific and Technical Research and Services (STRS) account. House funding levels for programs in STRS are not adopted, rather the agreement provides increases above the fiscal year 2022 enacted level of up to: (1) \$2,000,000 for Supporting the American Bioeconomy; (2) \$5,000,000 for NIST Center for Neutron Research Controls and Corrective Actions; (3) \$2,000,000 for the iEdison System; (4) \$2,500,000 for NIST’s Diversity, Equity, and Inclusion initiatives; (5) \$5,000,000 for Measurement Service Modernization; and (6) \$8,000,000 for Standards for Critical and Emerging Technologies. The agreement also provides no less than the fiscal year 2022 enacted level for Disaster Resilience Research Grants. In addition, the agreement adopts House direction on “Quantum Information Science” and provides no less than \$54,000,000 for these activities.

Climate and Energy Measurement, Tools, and Testbeds.—The agreement includes an increase of no less than \$11,500,000 above the fiscal year 2022 enacted level to support the request for Climate and Energy Measure-

ment, Tools, and Testbeds. Within these funds, the agreement includes an increase of \$1,500,000 above the fiscal year 2022 enacted level to expand NIST’s research on direct air capture and carbon dioxide removal and sequestration, including to develop standard reference materials and standard testing procedures for direct air capture and to support carbonate materials development, testing, and certification for construction markets.

In addition, within the funding provided, the agreement provides \$4,000,000 for the establishment of a NIST Center of Excellence in climate change measurement. The center will establish national standards and measurements for tracking climate change and its impact. The center shall be established in a State with existing requirements to reduce greenhouse gases and track climate impacts. The institution shall have established partnerships with national climate offices, as well as with an established State Climate Office, and shall have experience conducting comprehensive state climate assessments. Further, NIST is encouraged to consider an institution with an existing interdisciplinary research institute that establishes and coordinates research teams that integrate data from physical, biological, and social sciences for the purposes of synthesizing climate data. NIST is encouraged to partner with an institution that does not currently have a Center of Excellence.

Forward-Looking Building Standards.—Within funds for Climate and Energy Measurement, Tools, and Testbeds, the agreement provides not less than \$3,000,000 to continue the work on “Forward-Looking Building Standards” as directed in the joint explanatory statement accompanying Public Law 117-103. Further, NIST shall provide technical assistance to standards developing organizations regarding use of the identified forward-looking information.

Greenhouse Gas Program and Urban Dome Initiative.—The agreement adopts House language regarding the “Greenhouse Gas Program and Urban Dome Initiative” and includes up to \$15,000,000 to continue and expand sensor network deployments and other related activities.

Wildfires and the Wildland-Urban Interface.—The agreement adopts House direction on “Wildfires and the Wildland-Urban Interface” and, within funding for Climate and Energy Measurement, Tools, and Testbeds, provides an increase of up to \$1,500,000 above the fiscal year 2022 enacted level for this purpose.

Public Health Risk to First Responders.—The agreement includes \$3,000,000 for NIST to complete the study of new and unused personal protective equipment worn by firefighters to determine the prevalence and concentration of PFAS in the equipment, as well as the extent to which PFAS may be released from the gear during normal wear and under what conditions, as authorized by the Guaranteeing Equipment Safety for Firefighters Act of 2020 (Public Law 116-283). By the end of fiscal year 2023, NIST shall provide the Committees with the final report required under Public Law 116-283 including the major study findings and recommendations on what additional research or technical improvements should be pursued to avoid unnecessary occupational exposure among firefighters to PFAS through personal protective equipment or related components. The report should include a comparison to recent peer-reviewed studies, including those published after 2020.

Artificial Intelligence (AI).—The agreement provides an increase of no less than \$4,000,000 above the fiscal year 2022 enacted level for NIST’s AI research and measurement science efforts. NIST is directed to develop resources for government, corporate, and academic

uses of AI to train and test systems, model AI behavior, and compare systems. Within the funding provided, the agreement encourages NIST to continue to meet growing demand for the Facial Recognition Vendor Test and to improve the test consistent with prior year direction adopted in Public Law 117-103.

Algorithmic Bias.—House direction regarding “Algorithmic Bias” is adopted.

Framework for Managing AI Risks.—NIST shall continue the multi-stakeholder process of developing a framework for managing risks related to the reliability, robustness, and trustworthiness of AI systems and shall provide the Committees with an update on its progress as soon as is practicable.

Cybersecurity.—The agreement adopts House direction on “Cybersecurity” and provides an increase of no less than \$7,500,000 above the fiscal year 2022 enacted level for these activities, including the National Cybersecurity Center of Excellence (NCCoE). NIST is further directed to support the National Initiative for Cybersecurity Education (NICE) Regional Alliances and Multi-stakeholder Partnerships to Stimulate (RAMPS) Cybersecurity and Workforce Development program as authorized in the William M. (Mac) Thornberry National Defense Authorization Act for Fiscal Year 2021 (Public Law 116-283).

In addition, NIST is encouraged to bolster the technology foundations and put in place the practical steps needed to ensure the security and integrity of the technology supply chain, in partnership with the private sector, in accordance with Executive Order 14028. NIST is also encouraged to reduce the backlog at the Cryptographic Module Validation Program.

Cybersecurity and Privacy.—The agreement adopts House direction for “Cybersecurity and Privacy” and, from within funding for Cybersecurity, provides an increase of up to \$2,000,000 above the fiscal year 2022 enacted level to address the cybersecurity issues facing industrial control systems devices procured by the Federal government.

Cybersecurity of Genomic Data.—The agreement provides up to \$4,500,000 for NIST and the NCCoE to continue the cybersecurity of genomic data use case that was initiated in fiscal year 2021. NIST and NCCoE shall continue to partner with non-governmental entities that have existing capability to research and develop state-of-the-art cybersecurity technologies for the unique needs of genomic and biomedical-based systems.

Forensic Sciences.—The agreement provides \$22,000,000, an increase of \$1,500,000 above the fiscal year 2022 enacted level, for forensic science research. This includes no less than \$3,500,000 to support the Organization of Scientific Area Committees and no less than \$1,500,000 to support technical merit evaluations. In addition, NIST is directed to report to the Committees whether Federal support is necessary for Standards Development Organizations in order to further advance the use of forensic standards.

Circular Economy.—The agreement supports NIST’s work on the circular economy and provides an increase of no less than \$1,500,000 above the fiscal year 2022 enacted level for these activities with plastics and other materials in the supply chain. Of this amount, up to \$1,000,000 is to support further work on other classes of materials including electronics waste, battery and solar waste, and other waste streams. In addition, the agreement provides no less than the fiscal year 2022 enacted level for competitive external grants for academic institutions to investigate plastic and polymeric materials, as well as novel methods to characterize both known and newly developed materials consistent with prior year direction adopted in Public Law 117-103.

Composites.—NIST is encouraged to develop new composite technologies to solve problems in the manufacturing space and related materials industries consistent with prior year direction adopted in Public Law 117–103.

Regenerative Medicine Standards.—The agreement provides \$3,000,000 for NIST and the Standards Coordinating Body to continue to develop comprehensive standards for the development and evaluation of regenerative medicine products to fulfill the regenerative medicine standards provisions enacted under the 21st Century Cures Act (Public Law 114–255). In addition, the agreement provides up to \$1,500,000 to support the development of curricula in partnership with academic institutions and other stakeholders such as through establishment of consortia for workforce training around the use of regenerative medicine standards.

Pyrrhotite Testing and Mitigation.—The agreement adopts the House language regarding “Pyrrhotite Testing and Mitigation” and provides not less than \$750,000 for NIST to continue this work. NIST is also directed

to investigate mitigation strategies for concrete structures that may not yet have developed cracking but contain pyrrhotite. Additionally, \$4,000,000 is provided for similar work through NIST Community Project Funding/NIST External Projects.

Graphene Research and Commercialization.—The agreement provides up to the fiscal year 2022 enacted level for NIST to fund and pursue graphene research activities with industry and academic institutions that have expertise, existing capabilities, and infrastructure related to the commercial application of graphene.

Robotics Training Center.—The agreement provides up to \$2,000,000 for NIST to establish a robotic training center in partnership with an academic institution that has expertise in robotics and automation in the manufacturing sector.

Unmanned Aerial Vehicle (UAV) Challenges and Credentialing.—The agreement provides no less than the fiscal year 2022 enacted level for NIST’s UAV research challenges and credentialing program. Within the funding

provided, NIST shall continue to partner with academic institutions to execute UAV prize-based challenges and to establish the measurements and standards infrastructure necessary for credentialing remote pilots.

Malcolm Baldrige Performance Excellence Program.—The agreement provides \$2,700,000 for the Malcolm Baldrige Performance Excellence Program and encourages the program to build more partnerships and self-assessment tools to help organizations with their cybersecurity risk management.

Emerging Industries.—NIST is encouraged to support emerging industries, including cross-laminated timber.

NIST STRS Community Project Funding/NIST External Projects.—The recommendation includes \$62,532,000 for NIST STRS Community Project Funding/NIST External Projects as detailed in the table below. NIST shall provide the amounts listed in the table and shall perform the same level of oversight and due diligence as with any other external partners.

NIST STRS COMMUNITY PROJECT FUNDING/
NIST EXTERNAL PROJECTS

Recipient	Project	Amount
University of Connecticut	Long-Term Risk Management and Mitigation Strategies of Crumbling Foundations	\$4,000,000
Mentoring Youth Through Technology	Science, Technology, Engineering and Mathematics (STEM) After School Program	100,000
Desert Research Institute	Quantifying Carbon Fluxes	2,500,000
Rochester Institute of Technology	RIT Semiconductor Fabrication Laboratory	2,900,000
New Hampshire Manufacturing Extension Partnership	Building the Next Generation of Skilled Workforce in Manufacturing	450,000
Morgan State University	Center for Equitable Artificial Intelligence & Machine Learning	2,000,000
Oakland University	Oakland University Vehicular Wireless Communications System Testing and Standards Facility	3,000,000
Schoolcraft Community College District	Industry 4.0 Training at Schoolcraft College's Manufacturing & Engineering Center	1,025,000
Griffiss Institute	Smart-X Internet of Things (IoT) Living Lab	3,000,000
Colorado School of Mines	Solidified Natural Gas: Methane Emission Capture and Conversion	1,150,000
University of Washington	Quantum Technologies Teaching and Testbed (QT3)	2,500,000
Mountwest Community & Technical College	Mountwest Cybersecurity Center	850,000
West Virginia University	WVU Advanced Imaging and Chemical Analysis Equipment	2,500,000
Bowie State University	STEM Diversity in Research Opportunities Collaboration	1,500,000
Delaware Innovation Space	Biotechnology, Chemistry, and Materials Science Research Lab Equipment	2,475,000
University of Delaware	Equipment for Gene Therapy Production Suite	5,000,000
Tulane University	Advanced Semiconductor Research Equipment	2,000,000
Maine Mineral and Gem Museum	Equipment for Lithium and Geological Research	725,000
University of Maine System	PFAS Analytical Laboratory Equipment	5,000,000
University of Illinois-Chicago—Public Health	Community-Driven Air Quality and Environmental Justice Assessment	2,000,000
Clarkson University	Clarkson Green Energy on Demand	875,000
New York Medical College	Women's Institute for Science Entrepreneurship (WISE)	825,000
Stony Brook University	Long Island Quantum Internet Center	1,000,000
University at Albany, State University of New York	Advancement of the Ion Beam Laboratory	520,000
Mississippi State University	Inclement Weather Research Laboratory	1,000,000
University of Mississippi	Infrasound Calibration Standards Facility	1,500,000

NIST STRS COMMUNITY PROJECT FUNDING/
NIST EXTERNAL PROJECTS—Continued

Recipient	Project	Amount
University of Southern Mississippi	Advanced Clean Energy Materials Validation and Product Demonstration	3,000,000
University of Minnesota, The Hormel Institute	CryoEM Support Technology	1,500,000
Springfield Museums	Biomes Around the World	465,000
Columbia Gorge Community College	Advanced Manufacturing Skills Equipment	441,000
Wichita State University	Research of Metallic Additive Manufacturing Materials and Processes	5,000,000
University of Rhode Island	Quantum Information Science Research Initiative	1,000,000
University of New Hampshire	Enhancement of the University of New Hampshire Stormwater Center	1,137,000
University of New Hampshire	Marine Waterfront Facility Equipment	494,000

INDUSTRIAL TECHNOLOGY SERVICES

The agreement includes \$212,000,000 for Industrial Technology Services (ITS), including \$175,000,000 for the Hollings Manufacturing Extension Partnership (MEP), an increase of \$17,000,000 above the fiscal year 2022 enacted level, to respond to the critical national needs of small- and medium-sized enterprises, including by increasing the number of enterprises that the program assists. The agreement modifies House language on “MEP Supply Chain Database” to encourage NIST to support these activities from within available funds.

The agreement also provides \$37,000,000 for the Manufacturing USA Program, an increase of \$20,500,000 above the fiscal year 2022 enacted level. Within the funds identified for Manufacturing USA, the agreement provides: \$20,000,000 to support a new NIST-funded institute, which shall be broadly competed, and solicit applications from all focus areas

codified in section 1741 of Public Law 116-92; at least \$10,000,000 to support the existing NIST-funded institute; and up to \$1,500,000 to support the Food and Drug Administration’s participation in biomanufacturing innovation institutes.

Biomanufacturing Capacity.—Within 120 days of enactment of this act, NIST shall submit a report to the Committees on: (1) the current biomanufacturing capacity in the United States; (2) the gaps in biomanufacturing infrastructure; (3) an assessment of appropriate sites for placement of future domestic biomanufacturing facilities, including in rural areas; and (4) related assets and opportunities as appropriate, such as intellectual property, talent, and technology maturation lost to other countries over the last 5 years.

CONSTRUCTION OF RESEARCH FACILITIES

The agreement provides \$462,285,000 for NIST construction, an increase of \$256,722,000

above the fiscal year 2022 enacted level. Of this amount, no less than \$130,000,000 is provided for Safety, Capacity, Maintenance, and Major Repairs (SCMMR) to address the growing backlog of facilities maintenance and improvements. NIST shall provide quarterly updates to Congress on the projects funded within this account, to include milestones and total amount of funding necessary for completion, as well as an annual report on the state of NIST facilities and the current maintenance backlog.

NIST Construction Community Project Funding/NIST Extramural Construction.—The recommendation includes \$332,285,000 for NIST Construction Community Project Funding/NIST Extramural Construction as detailed in the table below. NIST shall provide the amounts listed in the table and shall further perform the same level of due diligence as with any other external partners.

NIST CONSTRUCTION COMMUNITY PROJECT FUNDING/
NIST EXTRAMURAL CONSTRUCTION

Recipient	Project	Amount
The Ohio State University	Battery Innovation Laboratory and Education Center	\$4,500,000
The University of Scranton	Workforce Development, Applied Research and Outreach Center in Health, Science and Cybersecurity	16,623,000
St. Mary's University	Construction and Equipment for the Innovation Center at St. Mary's University	5,561,000
Clafflin University	Clafflin University Bioscience Research and Technology Center	17,417,000
Tennessee State University	Tennessee State University Harned Hall Biological Sciences Research Building Renovation	3,000,000
Institute for Sustainable Biotechnology at the Inter-American University of Puerto Rico	Center for Food Security and Sustainable Agriculture	942,000
University of Puerto Rico, Mayaguez Campus	Aerospace Research Institute	7,500,000
Harris County	Institute of Forensic Sciences Design and Renovation	12,164,000
The University of Toledo	Health Sciences Bioresearch Lab	6,900,000
Connecticut Center for Advanced Technology (CCAT)	Connecticut Manufacturing Technology & Innovation Center	16,173,000
University of Missouri—Columbia	Next Generation University of Missouri Research Reactor	20,000,000
University of Colorado Boulder	University of Colorado Boulder JILA	2,000,000
Bigelow Laboratory for Ocean Sciences	Innovation and Education Wing at Bigelow Laboratory	12,326,000
Utica University	Utica University Crime Lab	717,000
Mount St. Mary's University	Mount St. Mary's Expanding STEM Access, Innovation and Workforce Development in Rural Maryland	4,000,000
Wright State University	The Wright State University Power House Research Center	2,000,000
Ohio University	Russ Research Center Digital Design Studio Development	1,500,000
Florida International University	Robotics and Autonomous Systems Laboratory for Coastal Conservation and Restoration	9,562,000
Missouri State University	Construction at Cheek Hall Science and Mathematics Facilities	5,000,000
The Curators of the University of Missouri	Construction at Manufacturing Technology and Innovation Campus	20,000,000
West Virginia Geological and Economic Survey	Modernization of Repository Facilities	2,000,000
University of Maine System	Construction of an Advanced-Manufacturing Materials Research Facility	8,000,000
University of New England	Construction of a Coastal Research Deployment Facility	3,500,000
University of Oklahoma	Expansion of National Weather Center Facilities	9,500,000
Champlain College	Cybersecurity and Information Technology Nexus Research	10,000,000

NIST CONSTRUCTION COMMUNITY PROJECT FUNDING/
NIST EXTRAMURAL CONSTRUCTION—Continued

Recipient	Project	Amount
Norwich University	Multi-disciplinary Cyber Fusion Research and Development Center	16,400,000
Fort Hays State University	Renovation of Forsyth Library	2,000,000
University of Kansas Cancer Center	Planning and Construction of a Cancer Research Facility at the KU Cancer Center	28,000,000
Seacoast Science Center	Seacoast Science Center Renovation and Program Expansion	5,000,000
Marion Military Institute	Construction of a New Math and Science Facility	35,000,000
The University of Alabama at Tuscaloosa	Construction of a High-Performance Computing and Data Center for Water and Hydrological Scientific Research, Education, and Forecasting	45,000,000

CREATING HELPFUL INCENTIVES TO PRODUCE SEMICONDUCTORS (CHIPS) FOR AMERICA FUND
 Division A of Public Law 117-167 established the CHIPS for America Fund. The agreement allocates the funds according to the amounts listed in the following table.

DEPARTMENT OF COMMERCE ALLOCATION OF NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY FUNDS: CHIPS ACT FISCAL YEAR 2023

(in thousands of dollars)

Account—Project and Activity	Amount
Section 9902:	
Creating Helpful Incentives to Produce Semiconductors (CHIPS) for America Fund	\$4,996,400
Administrative Expenses	(96,400)
Office of Inspector General, Salaries and Expenses	3,600
Total, Section 9902	5,000,000
Section 9906	
Industrial Technology Services	1,860,000
Research Acquisitions and Management	(1,323,000)
Advanced Packaging Manufacturing Program	(490,000)
Manufacturing USA Institute	(47,000)
Scientific and Technology Research & Services	138,600
NIST Metrology Program	(100,000)
Administrative Expenses	(38,600)
Office of Inspector General, Salaries and Expenses	1,400
Total, Section 9906	2,000,000

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Climate Ready Nation.—The agreement adopts the direction under the heading “Climate Ready Nation” in the House report, but provides alternate funding levels along with supplementary direction. The agreement supports the designation of a new position within Mission Support Executive Leadership as directed in the House report and provides an increase of up to \$500,000 above the fiscal year 2022 enacted level. As part of this work, within the Office of Oceanic and Atmospheric Research (OAR) Climate Laboratories and Cooperative Institutes, the agreement provides \$6,500,000 for Climate Change Projections out to 2050 to Inform Risk Management, including \$4,000,000 in support of the Water in the West Initiative.

Fire Weather.—The agreement adopts House direction regarding “Fire Weather” and provides an increase of \$7,000,000 above the fiscal year 2022 enacted level for these initiatives across NOAA. Within these funds, \$4,000,000 is provided in OAR U.S. Weather Research Program to develop a collaborative and integrated fire weather research program, including the establishment of a new NOAA Fire Weather Testbed. Further, within these funds, \$3,000,000 is provided within the National Weather Service (NWS) as follows: \$750,000 in Central Processing; \$500,000 in Analyze, Forecast, and Support; \$500,000 in Dissemination; and \$1,250,000 in Science and Technology Integration.

Water in the West Initiative.—The agreement adopts the House direction under the heading “Water in the West Initiative” and provides no less than \$12,213,000 within OAR for this work, including \$8,213,000 in Climate Competitive Research and \$4,000,000 in Climate Laboratories and Cooperative Institutes. Additionally, up to \$1,500,000 is provided for the National Centers for Environmental Information for data stewardship and other activities related to this initiative. Further, within the increase provided to Research Supercomputing, the Water in the West Initiative shall be prioritized for the allocation of compute resources.

Subseasonal to Seasonal (S2S) Weather Prediction.—The agreement provides \$12,100,000 across NOAA line offices for its efforts to improve S2S Weather Prediction. This includes \$5,000,000 in NWS Science and Technology Integration for the development of the Seasonal Forecast System and \$7,100,000 for the

S2S research program in the OAR U.S. Weather Research Program, including \$1,000,000 to seed innovative research testbeds. As part of these efforts, NOAA is encouraged to pursue a pilot project for S2S precipitation forecasts for water management in the western United States. The pilot project should be carried out in coordination with NWS and should be focused on achieving measurable objectives for operational forecast improvement, including forecasts of seasonal mountain snowpack accumulation and total seasonal precipitation. The S2S work should be integrated, as much as is practicable, with the Water in the West Initiative and Fire Weather.

Healthy Ocean Collaborations.—NOAA is encouraged to pursue collaborations with academic institutions located in close proximity to the agency’s Disaster Response Center and seafood safety labs to advance education, training, recruitment, and research efforts.

National Science Foundation (NSF) Geodetic and Seismic Networks.—NOAA is encouraged to negotiate a memorandum of understanding or another funding agreement with the NSF to support the long-term operation and recapitalization of the Network of the Americas system important to the agency’s geodetic work and the NSF seismic systems relevant to the agency’s tsunami warning mission.

Adjustments to Base (ATB).—The increased funding provided shall be used to cover the requested ATB costs, across all NOAA line offices, among other programmatic increases highlighted herein.

OPERATIONS, RESEARCH, AND FACILITIES (INCLUDING TRANSFER OF FUNDS)

The agreement includes a total program level of \$4,910,898,000 under this account, including \$42,000,000 provided in division N, for NOAA’s coastal, fisheries, marine, weather, satellite, and other programs. This total funding level includes \$4,542,997,000 in direct appropriations, a transfer of \$344,901,000 from balances in the “Promote and Develop Fishery Products and Research Pertaining to American Fisheries” fund, and \$23,000,000 derived from recoveries of prior year obligations. The following narrative descriptions and tables identify the specific activities and funding levels included in this act.

National Ocean Service (NOS).—\$679,422,000 is for NOS Operations, Research, and Facilities.

NATIONAL OCEAN SERVICE OPERATIONS, RESEARCH, AND FACILITIES

(in thousands of dollars)

Program	Amount
Navigation, Observations and Positioning:	
Navigation, Observations and Positioning	\$184,702
Hydrographic Survey Priorities/Contracts	32,500
IOOS Regional Observations	42,500
Navigation, Observations and Positioning:	259,702
Coastal Science and Assessment:	
Coastal Science, Assessment, Response and Restoration	96,500
Competitive Research	22,500
Coastal Science and Assessment	119,000
Ocean and Coastal Management and Services:	
Coastal Zone Management and Services	51,220
Coastal Zone Management Grants	81,500
National Oceans and Coastal Security Fund	34,000
Coral Reef Program	33,500
National Estuarine Research Reserve System	32,500
Sanctuaries and Marine Protected Areas	68,000
Ocean and Coastal Management and Services	300,720
Total, National Ocean Service, Operations, Research, and Facilities	\$679,422

Navigation Response Teams.—The agreement provides full operational funding for NOAA’s Navigation Response Teams within Navigation, Observations and Positioning.

Physical Oceanographic Real-Time System (PORTS) Program.—The agreement provides no less than the fiscal year 2022 enacted level for PORTS.

Geospatial Modeling Grants.—The agreement provides \$8,000,000 for the Geospatial Modeling Grants program for which all funding shall be distributed externally.

NOAA Center of Excellence for Operational Ocean and Great Lakes Mapping.—The agreement provides \$10,000,000 for a NOAA Center of Excellence for Operational Ocean and Great Lakes Mapping. Working in unison with and leveraging existing capabilities, including the Joint Hydrographic Center, the Center shall work across NOAA line offices, including NOS, OAR, and the Office of Marine and Aviation Operations (OMAO), to support and grow the Nation’s deep water, shallow water, and coastal mapping capabilities and data holdings, in partnership with industry. In particular, the Center shall serve as: (1) a focal point for activities transitioning developments in mapping platforms, sensors, and concepts of operations into operations; (2) a focal point for applied training for mapping and surveying operations, to grow and diversify the pool of well-qualified talent in this expanding field; (3) an agency-wide capability to provide technical support for ocean mapping technologies to operators in the field on an increasingly diverse set of platforms; and (4) a mechanism to leverage public-private partnerships in advancing the Nation’s ocean and Great Lakes mapping goals.

Hydrographic Research and Technology Development.—The agreement provides no less than the fiscal year 2022 enacted level for the Joint Hydrographic Center and \$2,000,000 for NOAA to continue supporting joint ocean and coastal mapping centers in other areas of the country.

Ocean Mapping and Coastal Charting.—The agreement provides no less than the fiscal year 2022 enacted level for NOS to continue coordinating and implementing an inter-agency mapping, exploration, and characterization strategy for the U.S. Exclusive Economic Zone, as well as the Strategy for Mapping the Arctic and Sub-Arctic Shoreline and Nearshore of Alaska consistent with prior year direction adopted in Public Law 117-103.

Hydrographic Surveys and Contracts.—For fiscal year 2023, NOS shall follow prior year direction adopted in Public Law 117-103, on the following topics: “Hydrographic Surveys and Contracts” and “Hydrographic Charting in the Arctic.”

National Water Level Observation Network (NWLON).—The House funding level for the NWLON is not adopted. No later than 180 days after enactment of this act, NOS is directed to provide the Committees with a report about the status of the system including the maintenance backlog and future needs to inform climate resilience efforts, including cost estimates.

Integrated Ocean Observing System (IOOS).—The agreement provides \$42,500,000 for IOOS to recapitalize and expand observing system infrastructure based upon the highest priority needs of each region to support disaster response, weather forecasting and hurricane prediction, forecasting of freshwater and marine water quality, detection of harmful algal blooms (HABs), and safe maritime operations. This may include buoys, high frequency radar, and underwater profiling gliders. IOOS regional associations are encouraged to consider leveraging existing capabilities of the commercial sector, including uncrewed systems, to meet observational needs through commercial data buys. The agreement provides not less than \$3,000,000 to continue and expand the IOOS HAB pilot programs initiated in fiscal year 2020 and to support the existing HAB monitoring and detection test bed.

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1 governing appointments in competitive service: *Provided*
2 *further*, That within the amount appropriated under this
3 heading in this Act, \$2,000,000 shall be transferred to the
4 “Office of Inspector General” account for carrying out in-
5 vestigations and audits related to the funding provided
6 under this heading in this Act.

7 For an additional amount for “Economic Develop-
8 ment Assistance Programs” for grants authorized by sec-
9 tions 28 and 29 of the Stevenson-Wydler Technology Inno-
10 vation Act of 1980 (15 U.S.C. 3722a and 3722b),
11 \$618,000,000, to remain available until expended, of
12 which \$459,000,000 shall be for grants under section 28
13 and \$159,000,000 shall be for grants under section 29 in
14 amounts determined by the Secretary.

15 NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
16 SCIENTIFIC AND TECHNICAL RESEARCH AND SERVICES

17 For an additional amount for “Scientific and Tech-
18 nical Research and Services” to investigate the impacts
19 of hurricanes, typhoons, and wildfires in calendar year
20 2022 to support the development of resilience standards
21 with regard to weather and climate disasters, in addition
22 to the underlying research to support those standards, and
23 for necessary expenses to carry out investigations of build-
24 ing failures pursuant to the National Construction Safety

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1 Team Act of 2002 (15 U.S.C. 7301), \$40,000,000, to re-
2 main available until expended.

3 INDUSTRIAL TECHNOLOGY SERVICES

4 For an additional amount for “Industrial Technology
5 Services”, \$27,000,000, to remain available until ex-
6 pended, to implement the Research and Development,
7 Competition, and Innovation Act (division B of Public
8 Law 117–167), of which \$13,000,000 shall be for the Hol-
9 lings Manufacturing Extension Partnership, and of which
10 \$14,000,000 shall be for the Manufacturing USA Pro-
11 gram.

12 NATIONAL OCEANIC AND ATMOSPHERIC

13 ADMINISTRATION

14 OPERATIONS, RESEARCH, AND FACILITIES

15 For an additional amount for “Operations, Research,
16 and Facilities” for necessary expenses related to the con-
17 sequences of hurricanes, typhoons, flooding, and wildfires
18 in calendar year 2022, \$29,000,000, to remain available
19 until September 30, 2024, for repair and replacement of
20 observing assets, real property, and equipment; for marine
21 debris assessment and removal; and for mapping, chart-
22 ing, and geodesy services.

23 For an additional amount for “Operations, Research,
24 and Facilities”, \$62,000,000, to remain available until
25 September 30, 2024, of which \$20,000,000, to remain