

Subsec. (a)(1)(E). Pub. L. 117–167, §10646(1)(B)(ii), (iv), redesignated subpar. (C) as (E) and substituted “adaptation and mitigation” for “adaptation”. Former subpar. (E) redesignated (H).

Subsec. (a)(1)(F). Pub. L. 117–167, §10646(1)(B)(v), added subpar. (F).

Subsec. (a)(1)(G). Pub. L. 117–167, §10646(1)(B)(ii), redesignated subpar. (D) as (G).

Subsec. (a)(1)(H). Pub. L. 117–167, §10646(1)(B)(ii), (vi), redesignated subpar. (E) as (H), substituted “their respective impacts” for “its impacts”, and struck out “and” at end.

Subsec. (a)(1)(I). Pub. L. 117–167, §10646(1)(B)(vii)(II), which directed the substitution of a semicolon for a period at the end, could not be executed because a semicolon, rather than a period, already appeared at the end.

Pub. L. 117–167, §10646(1)(B)(ii), (vii)(I), redesignated subpar. (F) as (I) and substituted “research, monitoring, and adaptation and mitigation strategies” for “monitoring and impacts research”.

Subsec. (a)(1)(J), (K). Pub. L. 117–167, §10646(1)(B)(viii), added subpars. (J) and (K).

Subsec. (a)(2). Pub. L. 117–167, §10646(1)(D), substituted “acidification and coastal acidification” for “acidification” in two places.

Pub. L. 117–167, §10646(1)(C), substituted “critical research, education, and outreach projects that explore and communicate” for “critical research projects that explore”.

Subsecs. (c), (d). Pub. L. 117–167, §10646(2), added subsecs. (c) and (d).

2020—Subsec. (a)(4). Pub. L. 116–271 added par. (4).

2018—Subsec. (a)(3). Pub. L. 115–232 substituted “section 8931 of title 10” for “section 7901 of title 10”.

Statutory Notes and Related Subsidiaries

EFFECTIVE DATE OF 2018 AMENDMENT

Amendment by Pub. L. 115–232 effective Feb. 1, 2019, with provision for the coordination of amendments and special rule for certain redesignations, see section 800 of Pub. L. 115–232, set out as a note preceding section 3001 of Title 10, Armed Forces.

§ 3706. NSF ocean acidification activities

(a) Research activities

The Director of the National Science Foundation shall continue to carry out research activities on ocean acidification and coastal acidification which shall support competitive, merit-based, peer-reviewed proposals for research, observation, and monitoring of ocean acidification and coastal acidification and their respective impacts, including—

(1) impacts on marine organisms, including species cultured for aquaculture, and marine ecosystems;

(2) impacts on ocean, coastal, and estuarine biogeochemistry;

(3) the development of methodologies and technologies to evaluate ocean acidification and coastal acidification and their respective impacts; and

(4) impacts of multiple stressors on ecosystems exhibiting hypoxia, harmful algal blooms, or sediment delivery, combined with changes in ocean chemistry; and

(5) adaptation and mitigation strategies to address socioeconomic effects of ocean acidification and coastal acidification.

(b) Consistency

The research activities shall be consistent with the strategic research plan developed by

the Subcommittee under section 3704 of this title.

(c) Coordination

The Director shall encourage coordination of the Foundation’s ocean acidification and coastal acidification activities with such activities of other nations and international organizations.

(d) Requirement

Recipients of grants from the National Science Foundation under this chapter that collect data described under section 3705(d) of this title shall—

(1) collect data in accordance with the standards, protocols, or procedures established pursuant to section 3705(d) of this title; and

(2) submit such data to the Director and the Secretary after publication, in accordance with any rules promulgated by the Director or the Secretary.

(Pub. L. 111–11, title XII, §12407, Mar. 30, 2009, 123 Stat. 1441; Pub. L. 116–271, title I, §112, Dec. 31, 2020, 134 Stat. 3344; Pub. L. 117–167, div. B, title VI, §10647, Aug. 9, 2022, 136 Stat. 1680.)

Editorial Notes

AMENDMENTS

2022—Pub. L. 117–167, §10647(1), substituted “ocean acidification and coastal acidification” for “ocean acidification” wherever appearing in text.

Subsec. (a). Pub. L. 117–167, §10647(2)(A), substituted “their respective impacts” for “its impacts” in introductory provisions.

Subsec. (a)(3). Pub. L. 117–167, §10647(2)(B), substituted “and their respective impacts” for “and its impacts”.

Subsec. (a)(5). Pub. L. 117–167, §10647(2)(C), (D), added par. (5).

Subsec. (d). Pub. L. 117–167, §10647(3), added subsec. (d).

2020—Subsec. (a). Pub. L. 116–271 amended subsec. (a) generally. Prior to amendment, text read as follows: “The Director of the National Science Foundation shall continue to carry out research activities on ocean acidification which shall support competitive, merit-based, peer-reviewed proposals for research and monitoring of ocean acidification and its impacts, including—

“(1) impacts on marine organisms and marine ecosystems;

“(2) impacts on ocean, coastal, and estuarine biogeochemistry; and

“(3) the development of methodologies and technologies to evaluate ocean acidification and its impacts.”

§ 3707. NASA ocean acidification activities

(a) Ocean acidification activities

The Administrator of the National Aeronautics and Space Administration, in coordination with other relevant agencies, shall ensure that space-based monitoring assets are used in as productive a manner as possible for monitoring of ocean acidification and coastal acidification and their respective impacts.

(b) Program consistency

The Administrator shall ensure that the Agency’s research and monitoring activities on ocean acidification and coastal acidification are carried out in a manner consistent with the strategic research plan developed by the Subcommittee under section 3704 of this title.

(c) Coordination

The Administrator shall encourage coordination of the Agency’s ocean acidification and coastal acidification activities with such activities of other nations and international organizations.

(d) Requirement

Researchers from the National Aeronautics and Space Administration under this subtitle that collect data described under section 3705(d) of this title shall—

(1) collect such data in accordance with the standards, protocols, or procedures established pursuant to section 3705(d) of this title; and

(2) submit such data to the Administrator and the Secretary, in accordance with any rules promulgated by the Administrator or the Secretary.

(Pub. L. 111–11, title XII, §12408, Mar. 30, 2009, 123 Stat. 1441; Pub. L. 117–167, div. B, title VI, §10648, Aug. 9, 2022, 136 Stat. 1681.)

Editorial Notes

AMENDMENTS

2022—Pub. L. 117–167, §10648(1), substituted “ocean acidification and coastal acidification” for “ocean acidification” wherever appearing in text.

Subsec. (a). Pub. L. 117–167, §10648(2), substituted “their respective impacts” for “its impacts”.

Subsec. (d). Pub. L. 117–167, §10648(3), added subsec. (d).

§ 3708. Authorization of appropriations

(a) NOAA

There are authorized to be appropriated to the National Oceanic and Atmospheric Administration to carry out the purposes of this chapter—

- (1) \$20,500,000 for fiscal year 2023;
- (2) \$22,000,000 for fiscal year 2024;
- (3) \$24,000,000 for fiscal year 2025;
- (4) \$26,000,000 for fiscal year 2026; and
- (5) \$28,000,000 for fiscal year 2027.

(b) NSF

There are authorized to be appropriated to the National Science Foundation to carry out the purposes of this chapter, \$20,000,000 for each of the fiscal years 2023 through 2027.

(Pub. L. 111–11, title XII, §12409, Mar. 30, 2009, 123 Stat. 1441; Pub. L. 117–167, div. B, title VI, §10649, Aug. 9, 2022, 136 Stat. 1681.)

Editorial Notes

AMENDMENTS

2022—Subsec. (a). Pub. L. 117–167, §10649(1), substituted pars. (1) to (5) for former pars. (1) to (4) which authorized appropriations for fiscal years 2009 to 2012.

Subsec. (b). Pub. L. 117–167, §10649(2), substituted “chapter, \$20,000,000 for each of the fiscal years 2023 through 2027.” for “chapter—” and pars. (1) to (4) which authorized appropriations for fiscal years 2009 to 2012.

CHAPTER 51—CLEAN HULLS

SUBCHAPTER I—GENERAL PROVISIONS

<p>Sec. 3801. 3802. 3803.</p>	<p>Definitions. Covered vessels. Administration and enforcement.</p>
---	--

<p>Sec. 3804. 3805.</p>	<p>Compliance with international law. Utilization of personnel, facilities or equipment of other Federal departments and agencies.</p>
---------------------------------	--

SUBCHAPTER II—IMPLEMENTATION OF THE CONVENTION

<p>3821. 3822. 3823. 3824. 3825. 3826.</p>	<p>Certificates. Declaration. Other compliance documentation. Process for considering additional controls. Scientific and technical research and monitoring; communication and information. Communication and exchange of information.</p>
--	--

SUBCHAPTER III—PROHIBITIONS AND ENFORCEMENT AUTHORITY

<p>3841. 3842. 3843. 3844.</p>	<p>Prohibitions. Investigations and inspections by Secretary. EPA enforcement. Additional authority of the Administrator.</p>
--	---

SUBCHAPTER IV—ACTION ON VIOLATION, PENALTIES, and REFERRALS

<p>3851. 3852. 3853. 3854. 3855. 3856. 3857.</p>	<p>Criminal enforcement. Civil enforcement. Liability in rem. Vessel clearance or permits; refusal or revocation; bond or other surety. Warnings, detentions, dismissals, exclusion. Referrals for appropriate action by foreign country. Remedies not affected.</p>
--	--

SUBCHAPTER I—GENERAL PROVISIONS

§ 3801. Definitions

In this chapter:

(1) Administrator

The term “Administrator” means the Administrator of the Environmental Protection Agency.

(2) Antifouling system

The term “antifouling system” means a coating, paint, surface treatment, surface, or device that is used or intended to be used on a vessel to control or prevent attachment of unwanted organisms.

(3) Convention

The term “Convention” means the International Convention on the Control of Harmful Anti-Fouling Systems on Ships, 2001, including its annexes, and including any amendments to the Convention or annexes which have entered into force for the United States.

(4) FPSO

The term “FPSO” means a floating production, storage, or offloading unit.

(5) FSU

The term “FSU” means a floating storage unit.

(6) Gross tonnage

The term “gross tonnage” as defined in chapter 143 of title 46 means the gross tonnage calculated in accordance with the tonnage measurement regulations contained in annex 1 to the International Convention on Tonnage Measurement of Ships, 1969.

(7) International voyage

The term “international voyage” means a voyage by a vessel entitled to fly the flag of