

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.