116TH CONGRESS 1ST SESSION

H.R.988

AN ACT

- To provide for a study by the National Academies of Sciences, Engineering, and Medicine examining the impact of ocean acidification and other stressors in estuarine environments.
 - 1 Be it enacted by the Senate and House of Representa-
 - 2 tives of the United States of America in Congress assembled,

1 SECTION 1. SHORT TITLE.

- 2 This Act may be cited as the "National Estuaries and
- 3 Acidification Research Act of 2019" or the "NEAR Act
- 4 of 2019".

9

14

15

16

17

18

19

20

21

22

23

24

5 SEC. 2. FINDINGS.

- 6 Congress finds the following:
- 7 (1) Ocean acidification impacts human health, 8 natural resources, and the environmental, economic,

and recreational uses of the coastline.

- 10 (2) The current understanding of ocean acidifi-11 cation impacts on estuarine ecosystems is inadequate 12 to fully prepare and manage for changing environ-
- mental conditions in nearshore locations.
 - (3) While pH can be measured with high precision and accuracy in open ocean environments, more understanding of the carbonate system in estuarine ecosystems is needed for precise and accurate measurements and observations.
 - (4) The interaction of multiple stressors, including salinity, pH, temperature, sea level rise, and nutrient input, within estuarine ecosystems is inadequately understood for managing the health, economic, recreational, and environmental impacts driven by these interactions.

1	(5) A better understanding is needed of how
2	anthropogenic influences in coastal environments af-
3	fect estuarine ecosystems.
4	(6) More integration and coordination is needed
5	among regional, national, and global environmental
6	observations in estuarine environments, supporting
7	prior investments in related topics such as nutrient
8	loading, hypoxia, ocean acidification, and harmful
9	algae bloom research and observational systems.
10	SEC. 3. STUDY EXAMINING THE IMPACT OF OCEAN ACIDIFI-
11	CATION AND OTHER ENVIRONMENTAL
12	STRESSORS ON ESTUARINE ENVIRONMENTS.
13	(a) In General.—Not later than 60 days after the
14	date of enactment of this Act, the Secretary of Commerce
15	shall make appropriate arrangements with the National
16	Academies of Sciences, Engineering, and Medicine (re-
16	Academies of Sciences, Engineering, and Medicine (referred to in this Act as the "National Academies") under
16 17	Academies of Sciences, Engineering, and Medicine (referred to in this Act as the "National Academies") under
161718	Academies of Sciences, Engineering, and Medicine (referred to in this Act as the "National Academies") under which the National Academies shall conduct a study
16171819	Academies of Sciences, Engineering, and Medicine (referred to in this Act as the "National Academies") under which the National Academies shall conduct a study that—
16 17 18 19 20	Academies of Sciences, Engineering, and Medicine (referred to in this Act as the "National Academies") under which the National Academies shall conduct a study that— (1) examines the existing science of ocean acidi-
16 17 18 19 20 21	Academies of Sciences, Engineering, and Medicine (referred to in this Act as the "National Academies") under which the National Academies shall conduct a study that— (1) examines the existing science of ocean acidification in estuarine environments;
16 17 18 19 20 21 22	Academies of Sciences, Engineering, and Medicine (referred to in this Act as the "National Academies") under which the National Academies shall conduct a study that— (1) examines the existing science of ocean acidification in estuarine environments; (2) examines the challenges to studying ocean

1	(3) provides recommendations for improving fu-
2	ture research with respect to ocean acidification in
3	estuarine environments; and
4	(4) identifies pathways for applying science in
5	management and mitigation decisions relating to
6	ocean acidification in estuarine environments.
7	(b) Contents of Study.—The study described
8	under subsection (a) shall include—
9	(1) the behavior of the carbonate system within
10	estuarine environments;
11	(2) the interactions of the carbonate system
12	with other biotic and abiotic characteristics of estua-
13	rine ecosystems;
14	(3) how environmental and anthropogenic
15	changes or disturbances could affect abiotic and bi-
16	otic processes within estuaries;
17	(4) how estuarine biotic and abiotic processes
18	will be affected under predicted environmental
19	changes;
20	(5) the current state of data collection, inter-
21	pretation, storage, and retrieval and observational
22	infrastructure of abiotic and biotic parameters in es-
23	tuarine ecosystems;

1	(6) the gaps that exist in understanding the
2	socio-economic and health impacts of ocean acidifica-
3	tion in estuaries;
4	(7) future directions for scientific research; and
5	(8) pathways for applying science in manage-
6	ment and mitigation decisions.
7	(c) Report.—In entering into an arrangement under
8	subsection (a), the Secretary shall request that the Na-
9	tional Academies transmit to Congress a report on the re-
10	sults of the study not later than 24 months after the date
11	of enactment of this Act.
12	(d) Authorization of Appropriations.—There
13	are authorized to be appropriated to carry out this section
14	\$1 million.
	Passed the House of Representatives June 5, 2019.
	Attest:

Clerk.

116TH CONGRESS H. R. 988

AN ACT

To provide for a study by the National Academies of Sciences, Engineering, and Medicine examining the impact of ocean acidification and other stressors in estuarine environments.