

Suspend the Rules and Pass the Bill, H.R. 988, with Amendments

(The amendments strike all after the enacting clause and insert a new text and a new title)

116TH CONGRESS
1ST SESSION

H. R. 988

To provide for a study by the Ocean Studies Board of the National Academies of Science examining the impact of ocean acidification and other stressors in estuarine environments.

IN THE HOUSE OF REPRESENTATIVES

FEBRUARY 6, 2019

Mr. POSEY (for himself, Ms. BONAMICI, and Mr. MAST) introduced the following bill; which was referred to the Committee on Science, Space, and Technology, and in addition to the Committee on Natural Resources, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

A BILL

To provide for a study by the Ocean Studies Board of the National Academies of Science 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”.

5 **SEC. 2. FINDINGS.**

6 Congress finds the following:

7 (1) Ocean acidification impacts human health,
8 natural resources, and the environmental, economic,
9 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-
13 mental conditions in nearshore locations.

14 (3) While pH can be measured with high preci-
15 sion and accuracy in open ocean environments, more
16 understanding of the carbonate system in estuarine
17 ecosystems is needed for precise and accurate meas-
18 urements and observations.

19 (4) The interaction of multiple stressors, includ-
20 ing salinity, pH, temperature, sea level rise, and nu-
21 trient input, within estuarine ecosystems is inad-
22 equately understood for managing the health, eco-
23 nomic, recreational, and environmental impacts driv-
24 en 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-
17 ferred to in this Act as the “National Academies”) under
18 which the National Academies shall conduct a study
19 that—

20 (1) examines the existing science of ocean acidi-
21 fication in estuarine environments;

22 (2) examines the challenges to studying ocean
23 acidification and ocean acidification’s interactions
24 with other environment stressors in estuarine envi-
25 ronments;

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 \$1,000,000.

Amend the title so as to read: “A bill to provide for
a study by the National Academies of Sciences, Engineer-
ing, and Medicine examining the impact of ocean acidifi-
cation and other stressors in estuarine environments.”.