

117TH CONGRESS  
2D SESSION

# S. 3533

To amend the John D. Dingell, Jr. Conservation, Management, and Recreation Act to improve the National Volcano Early Warning and Monitoring System, and for other purposes.

---

IN THE SENATE OF THE UNITED STATES

JANUARY 20, 2022

Mr. SCHATZ (for himself and Ms. MURKOWSKI) introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

---

## A BILL

To amend the John D. Dingell, Jr. Conservation, Management, and Recreation Act to improve the National Volcano Early Warning and Monitoring System, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*  
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Volcanic Ash and  
5 Fumes Act of 2022”.

1 **SEC. 2. MODIFICATIONS TO NATIONAL VOLCANO EARLY**  
2 **WARNING AND MONITORING SYSTEM.**

3 (a) **DEFINITIONS.**—Subsection (a) of section 5001 of  
4 the John D. Dingell, Jr. Conservation, Management, and  
5 Recreation Act (43 U.S.C. 31k) is amended—

6 (1) by redesignating paragraph (2) as para-  
7 graph (3);

8 (2) by inserting after paragraph (1) the fol-  
9 lowing:

10 “(2) **SECRETARY OF COMMERCE.**—The term  
11 ‘Secretary of Commerce’ means the Secretary of  
12 Commerce, acting through the Under Secretary of  
13 Commerce for Oceans and Atmosphere.”; and

14 (3) by adding at the end the following:

15 “(4) **VOLCANIC ASH ADVISORY CENTER.**—The  
16 term ‘Volcanic Ash Advisory Center’ means an enti-  
17 ty designated by the International Civil Aviation Or-  
18 ganization that is responsible for informing aviation  
19 interests about the presence of volcanic ash in the  
20 airspace.”.

21 (b) **PURPOSES.**—Subsection (b)(1)(B) of such section  
22 is amended—

23 (1) in clause (i), by striking “and” at the end;

24 (2) in clause (ii), by striking the period at the  
25 end and inserting “; and”; and

26 (3) by adding at the end the following:

1           “(iii) to strengthen the warning and  
2           monitoring systems of volcano observ-  
3           atories in the United States by integrating  
4           relevant capacities of the National Oceanic  
5           and Atmospheric Administration, including  
6           with the Volcanic Ash Advisory Centers lo-  
7           cated in Anchorage, Alaska, and Wash-  
8           ington, DC, to observe and model emis-  
9           sions of gases, aerosols, and ash, atmos-  
10          pheric dynamics and chemistry, and ocean  
11          chemistry resulting from volcanic erup-  
12          tions.”.

13          (c) SYSTEM COMPONENTS.—Subsection (b)(2) of  
14 such section is amended—

15           (1) in subparagraph (B)—

16                (A) by striking “and” before “spectrom-  
17                etry”; and

18                (B) by inserting “, and unoccupied aerial  
19                vehicles” after “emissions”; and

20           (2) by adding at the end the following:

21                “(C) MEMORANDUM OF UNDER-  
22                STANDING.—The Secretary and the Secretary  
23                of Commerce shall develop and execute a memo-  
24                randum of understanding to establish coopera-  
25                tive support for the activities of the System

1 from the National Oceanic and Atmospheric  
2 Administration, including environmental obser-  
3 vations, modeling, and temporary duty assign-  
4 ments of personnel to support emergency activi-  
5 ties, as necessary or appropriate.”.

6 (d) MANAGEMENT.—Subsection (b)(3) of such sec-  
7 tion is amended—

8 (1) in subparagraph (A), by adding at the end  
9 the following:

10 “(iii) UPDATE.—

11 “(I) NATIONAL OCEANIC AND AT-  
12 MOSPHERIC ADMINISTRATION COST  
13 ESTIMATES.—The Secretary of Com-  
14 merce shall submit to the Secretary  
15 annual cost estimates for moderniza-  
16 tion activities and support of the Sys-  
17 tem for the National Oceanic and At-  
18 mospheric Administration.

19 “(II) UPDATE OF MANAGEMENT  
20 PLAN.—The Secretary shall update  
21 the management plan submitted  
22 under clause (i) to include the cost es-  
23 timates submitted under subclause  
24 (I).”; and

25 (2) by adding at the end the following:

1           “(E) COLLABORATION.—The Secretary of  
2 Commerce shall collaborate with the Secretary  
3 to implement activities carried out under this  
4 section related to the expertise of the National  
5 Oceanic and Atmospheric Administration, in-  
6 cluding observations and modeling of emissions  
7 of gases, aerosols, and ash, atmospheric dynam-  
8 ics and chemistry, and ocean chemistry result-  
9 ing from volcanic eruptions.”.

10       (e) FUNDING.—Subsection (c) of such section is  
11 amended—

12           (1) in paragraph (1)—

13               (A) in the paragraph heading, by inserting  
14               “, UNITED STATES GEOLOGICAL SURVEY” after  
15               “APPROPRIATIONS”; and

16               (B) by inserting “to the United States Ge-  
17               ological Survey” after “appropriated”;

18           (2) by redesignating paragraph (2) as para-  
19           graph (3);

20           (3) by inserting after paragraph (1) the fol-  
21           lowing:

22               “(2) AUTHORIZATION OF APPROPRIATIONS, NA-  
23               TIONAL OCEANIC AND ATMOSPHERIC ADMINISTRA-  
24               TION.—There is authorized to be appropriated to the  
25               National Oceanic and Atmospheric Administration

1 to carry out this section such sums as may be nec-  
2 essary for the period of fiscal years 2022 through  
3 2023.”; and

4 (4) in paragraph (3), as redesignated by para-  
5 graph (2)—

6 (A) by striking “United States Geological  
7 Survey”; and

8 (B) by inserting “of the United States Ge-  
9 ological Survey and the National Oceanic and  
10 Atmospheric Administration” after “programs”.

○