

**AMENDMENT TO H.R. 7273**  
**OFFERED BY MS. BONAMICI OF OREGON**

Add at the end of title VI the following:

1 **SEC. 622. PILOT RESEARCH, DEVELOPMENT, AND DEM-**  
2 **ONSTRATION ACTIVITIES FOR SPACE-BASED**  
3 **MARINE DEBRIS DETECTION, CHARACTER-**  
4 **IZATION, AND TRACKING.**

5 (a) IN GENERAL.—The Administrator may conduct,  
6 on a pilot basis, research, development, and demonstration  
7 activities to advance the utilization of Earth observation  
8 data, including spectral analysis and other remote sensing  
9 techniques, models, and research products to detect, char-  
10 acterize, and track marine debris. Such activities may in-  
11 clude the following:

12 (1) Establishing techniques to detect, charac-  
13 terize, and track plastic and other anthropogenic de-  
14 bris and organic or naturally occurring materials.

15 (2) Carrying out spatial and temporal resolu-  
16 tion as necessary to support such activities.

17 (3) Developing and integrating into such activi-  
18 ties research products developed by NASA.

19 (b) MEMORANDUM OF UNDERSTANDING.—Not later  
20 than 180 days after the date of the enactment of this Act,

1 the Administrator shall enter into a memorandum of un-  
2 derstanding with the Administrator of the National Oee-  
3 anic and Atmospheric Administration (NOAA) to carry  
4 out the following:

5 (1) Establish roles and responsibilities for inter-  
6 agency cooperation between NASA and NOAA with  
7 respect to any research, development, and dem-  
8 onstration activities described in subsection (a), as  
9 the case may be, conducted by the Administrator.

10 (2) Facilitate the exchange of relevant Earth  
11 observation data, models, and research products de-  
12 scribed in such subsection between NASA and  
13 NOAA.

14 (3) Identify recommendations to improve the  
15 compatibility of any scientific capabilities of NASA  
16 related to any such activities for utilization by  
17 NOAA, including with respect to the compatibility of  
18 any such capabilities for the Marine Debris Program  
19 of NOAA.

20 (c) CONSULTATION.—If the Administrator conducts  
21 the research, development, and demonstration activities  
22 described in subsection (a), the Administrator shall con-  
23 sult with the Administrator of NOAA regarding the fol-  
24 lowing:

1           (1) Ensuring any such activities are conducted  
2           in consideration of any other existing Federal re-  
3           search, development, or demonstration activities re-  
4           lated to detecting, characterizing, or tracking marine  
5           debris.

6           (2) Identifying data formats, metadata stand-  
7           ards, and access mechanisms that support utilization  
8           of the research products described in paragraph (3)  
9           of subsection (a), for the research, development, and  
10          demonstration activities described in such sub-  
11          section, including with respect to the following:

12                 (A) Data discoverability, interoperability,  
13                 and accessibility of Federal departments and  
14                 agencies that have responsibilities related to de-  
15                 tecting, characterizing, or tracking marine de-  
16                 bris.

17                 (B) Commercial Earth observation data, as  
18                 appropriate and practicable, to supplement any  
19                 Earth observation data of NASA or NOAA, as  
20                 the case may be.

21          (3) Facilitating the compatibility of any moni-  
22          toring and response systems for marine debris of  
23          NASA with any other Federal monitoring and re-  
24          sponse system.

1 (d) REPORT.—Not later than 18 months after the  
2 date of the enactment of this Act, the Administrator shall  
3 submit to the appropriate committees of Congress a report  
4 that includes information relating to the following:

5 (1) The results of any research, development,  
6 and demonstration activities described in subsection  
7 (a), as the case may be, conducted by the Adminis-  
8 trator, including the extent to which any such activi-  
9 ties improved the detection, characterization, or  
10 tracking of marine debris.

11 (2) The memorandum of understanding re-  
12 quired under subsection (b), including any rec-  
13 ommendations identified pursuant to paragraph (3)  
14 of such subsection.

15 (3) Any consultation under subsection (c).

16 (4) Any issues related to the development or in-  
17 tegration, as the case may be, of the research prod-  
18 ucts described in paragraph (3) of subsection (a).

