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To require the Under Secretary of Commerce for Oceans and Atmosphere to conduct a project to improve forecasts of coastal marine fog, and for other purposes.

IN THE SENATE OF THE UNITED STATES

Mr.	Cruz	(for	himself	and M	r.	Padilla)	introduced	the	following	bill;	which
wa	s read	twic	e and re	eferred	te	o the Comi	$_{ m mittee}$ on $_$				

A BILL

- To require the Under Secretary of Commerce for Oceans and Atmosphere to conduct a project to improve forecasts of coastal marine fog, 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 "Fog Observations and
 - 5 Geographic Forecasting Act".

1	SEC. 2. PROJECT TO IMPROVE FORECASTS OF COASTAL						
2	MARINE FOG.						
3	(a) IN GENERAL.—The Under Secretary of Com-						
4	merce for Oceans and Atmosphere shall conduct a project						
5	to improve forecasts of coastal marine fog.						
6	(b) GOAL.—The goal of the project required under						
7	subsection (a) is to enhance vessel safety and reduce the						
8	economic impact of coastal marine fog events, with a focus						
9	on—						
10	(1) increasing the number of marine-based ob-						
11	servations through additional Federal platforms and						
12	commercially acquired observations in locations						
13	where impacts from marine fog and reduced visi-						
14	bility have major safety and economic impacts, in-						
15	cluding through the use of—						
16	(A) buoys;						
17	(B) meteorological stations measuring visi-						
18	bility, temperature, dewpoint, and wind speed						
19	and direction as a stand-alone or co-located						
20	with water level sensors, such as those that are						
21	part of the physical oceanographic observation						
22	system program of the National Oceanic and						
23	Atmospheric Administration;						
24	(C) stationary platforms or drifting instru-						
25	ments;						
26	(D) vessels;						

I	(E) unmanned systems;
2	(F) remote sensing technologies, including
3	rapid refresh hyperspectral satellite imagery;
4	and
5	(G) advanced algorithms that extract ac-
6	tionable information from observational data,
7	including early detection and regular moni-
8	toring of marine fog;
9	(2) advancing geographic coverage, resolution,
10	skill, and accuracy of marine fog modeling, includ-
11	ing, when feasible, additional locations and advance-
12	ments in marine channel forecast capability;
13	(3) improving communication of marine fog
14	advisories by the National Oceanic and Atmospheric
15	Administration;
16	(4) communicating risks posed by hazardous
17	marine fog events in a way that maximizes informed
18	decision making by the public; and
19	(5) providing decision support services based on
20	environmental information that is actionable to the
21	recipient of a marine fog advisory.
22	(c) Stakeholder Engagement.—In implementing
23	the project required under subsection (a), the Under Sec-
24	retary shall meet with public and private stakeholders re-

- 1 garding the planning, development, and implementation of
- 2 the project.
- 3 (d) Tribal Engagement.—The Under Secretary
- 4 shall meet with Indian tribes (as defined in section 4 of
- 5 the Indian Self-Determination and Education Assistance
- 6 Act (25 U.S.C. 5304)) regarding the planning, develop-
- 7 ment, and implementation of the project required under
- 8 subsection (a).
- 9 (e) PROJECT PLAN.—Not later than one year after
- 10 the date of the enactment of this Act, the Under Secretary
- 11 shall develop a plan for the project required under sub-
- 12 section (a) that details the specific research, development,
- 13 and technology transfer activities, as well as corresponding
- 14 resources and timelines, necessary to achieve the goal set
- 15 forth under subsection (b).