AMENDMENT TO H.R. 6093

OFFERED BY MR. JACKSON OF NORTH CAROLINA

Add at the end of title V the following:

1	SEC. 507. PRECIPITATION FORECAST IMPROVEMENT PRO-
2	GRAM.
3	(a) IN GENERAL.—Title VI of the Weather Research
4	and Forecasting Innovation Act of 2017 (15 U.S.C. 8501
5	et seq.) is amended—
6	(1) by redesignating section 603 as section 604;
7	and
8	(2) by inserting after section 602 the following
9	new section:
10	"SEC. 603. PRECIPITATION FORECAST IMPROVEMENT PRO-
11	GRAM.
12	"(a) In General.—The Under Secretary, in collabo-
1213	"(a) IN GENERAL.—The Under Secretary, in collaboration with the United States weather industry, other Fed-
13	ration with the United States weather industry, other Fed-
13 14	ration with the United States weather industry, other Federal agencies, and academic partners, shall maintain a
13 14 15	ration with the United States weather industry, other Federal agencies, and academic partners, shall maintain a program to improve precipitation forecasting across
13 14 15 16	ration with the United States weather industry, other Federal agencies, and academic partners, shall maintain a program to improve precipitation forecasting across timescales.
13 14 15 16 17	ration with the United States weather industry, other Federal agencies, and academic partners, shall maintain a program to improve precipitation forecasting across timescales. "(b) GOAL.—The goal of the program under sub-

1	system prediction model in order to reduce the loss of life
2	or property related to precipitation extremes, with a focus
3	on the following:
4	"(1) Improving the understanding and pre-
5	diction of precipitation extremes from a variety of
6	weather systems, including atmospheric rivers.
7	"(2) Evaluating and incorporating, as appro-
8	priate, innovative observations into operational moni-
9	toring and forecast systems to improve precipitation
10	forecasts.
11	"(3) Improving earth system model predictions
12	of precipitation extremes from atmospheric rivers,
13	tropical cyclones, summer-time thunderstorms, win-
14	ter storms, and other phenomena, in coordination
15	with relevant programs.
16	"(4) Enhancing research transition to oper-
17	ations through testbeds, including the evaluation of
18	physical and social science, technology, and other re-
19	search to develop products and services for imple-
20	mentation and use by relevant stakeholders.
21	"(5) Incorporating social, behavioral, and eco-
22	nomic sciences best practices into operations for
23	more effective and actionable watch and warning
24	products that help drive public safety and damage

1	mitigation decisions in coordination with the pro-
2	grams established in accordance with this Act.
3	"(6) Ensuring data and metadata management
4	processes are in place to support data access and ar-
5	chive for long term research and operations among
6	multiple partners.
7	"(c) Activities.—In carrying out the program
8	under subsection (a), the Under Secretary shall support
9	research-to-operations work, including relating to the fol-
10	lowing:
11	"(1) Implementing key strategies and following
12	priorities and objectives outlined by the National
13	Oceanic and Atmospheric Administration's 'Precipi-
14	tation Prediction Grand Challenge Strategy'.
15	"(2) Improving the physical science, operational
16	modeling and tools, and technology related to better
17	forecasting precipitation extremes across timescales.
18	"(3) Improving the social, behavioral, risk, com-
19	munications, and economic sciences related to
20	vulnerabilities, risk communication, and delivery of
21	information critical for reducing the loss of life or
22	property related to extreme precipitation.
23	"(4) Conducting the research necessary to de-
24	velop and deploy probabilistic weather forecast guid-

1	ance technology relating to precipitation extremes in
2	operational practice.
3	"(5) Enhancing the operational capacity of the
4	National Weather Service to deliver decision support
5	for increasing precipitation extremes.
6	"(6) Expanding computational resources to im-
7	prove precipitation modeling.
8	"(d) Annual Budget.—The Under Secretary shall,
9	not less frequently than annually, submit to Congress a
10	proposed budget corresponding with carrying out this sec-
11	tion.".
12	(b) CLERICAL AMENDMENT.—The table of contents
13	in section 1(b) of the Weather Research and Forecasting
14	Innovation Act of 2017 is amended by striking the item
15	relating to section 603 and inserting the following new
16	items:
	"Sec. 603. Precipitation forecast improvement program.

[&]quot;Sec. 604. Definitions.".

