Calendar No. 597 ^{104TH CONGRESS} ^{2D SESSION} H.R.3198

IN THE SENATE OF THE UNITED STATES

JULY 31, 1996 Received; read twice and referred to the Committee on Energy and Natural Resources

> SEPTEMBER 13, 1996 Reported by Mr. MURKOWSKI, without amendment

AN ACT

To reauthorize and amend the National Geologic Mapping Act of 1992, 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 "National Geologic

5 Mapping Reauthorization Act of 1996".

6 SEC. 2. FINDINGS.

7 Congress finds that—

1	(1) in enacting the National Geologic Mapping
2	Act of 1992 (43 U.S.C. 31a et seq.), Congress
3	found, among other things, that—
4	(A) during the 2 decades preceding enact-
5	ment of that Act, the production of geologic
6	maps had been drastically curtailed;
7	(B) geologic maps are the primary data
8	base for virtually all applied and basic earth-
9	science investigations;
10	(C) Federal agencies, State and local gov-
11	ernments, private industry, and the general
12	public depend on the information provided by
13	geologic maps to determine the extent of poten-
14	tial environmental damage before embarking on
15	projects that could lead to preventable, costly
16	environmental problems or litigation;
17	(D) the lack of proper geologic maps has
18	led to the poor design of such structures as
19	dams and waste-disposal facilities;
20	(E) geologic maps have proven indispen-
21	sable in the search for needed fossil fuel and
22	mineral resources; and
23	(F) a comprehensive nationwide program
24	of geologic mapping is required in order to sys-
25	tematically build the Nation's geologic-map

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1	data base at a pace that responds to increasing
2	demand;
3	(2) the geologic mapping program called for by
4	that Act has not been fully implemented; and
5	(3) it is time for this important program to be
6	fully implemented.
7	SEC. 3. REAUTHORIZATION AND AMENDMENT.
8	(a) Definitions.—Section 3 of the National Geo-
9	logic Mapping Act of 1992 (43 U.S.C. 31b) is amended—
10	(1) by striking "As used in this Act:" and in-
11	serting "In this Act:";
12	(2) by redesignating paragraphs (2) , (3) , (4) ,
13	and (5) as paragraphs (3) , (4) , (5) , and (6) , respec-
14	tively;
15	(3) by inserting after paragraph (1) the follow-
16	ing:
17	"(2) Association.—The term 'Association'
18	means the Association of American State Geolo-
19	gists."; and
20	(4) in each paragraph that does not have a
21	heading, by inserting a heading, in the same style as
22	the heading in paragraph (2), as added by para-
23	graph (3), the text of which is comprised of the term
24	defined in the paragraph.

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1	(b) Geologic Mapping Program.—Section 4 of the
2	National Geologic Mapping Act of 1992 (43 U.S.C. 31c)
3	is amended—
4	(1) by striking subsection (a) and inserting the
5	following:
6	"(a) Establishment.—
7	"(1) IN GENERAL.—There is established a na-
8	tional cooperative geologic mapping program be-
9	tween the United States Geological Survey and the
10	State geological surveys, acting through the Associa-
11	tion.
12	"(2) Design, development, and adminis-
13	TRATION.—The cooperative geologic mapping pro-
14	gram shall be—
15	"(A) designed and administered to achieve
16	the objectives set forth in subsection (c);
17	"(B) developed in consultation with the ad-
18	visory committee; and
19	"(C) administered through the Survey.";
20	(2) in subsection (b)—
21	(A) in the subsection heading by striking
22	"USGS" and inserting "THE SURVEY";
23	(B) in paragraph (1)—

1 (i) by single-indenting the paragraphs, 2 double-indenting the subparagraphs, and 3 triple indenting the clauses; (ii) by inserting "LEAD AGENCY.—" 4 before "The Survey"; 5 (iii) in subparagraph (A)— 6 (I) by striking "Committee on 7 Natural Resources" and inserting 8 "Committee on Resources"; and 9 (II) by striking "date of enact-10 11 ment of this Act" and inserting "date of enactment of the National Geologic 12 13 Mapping Reauthorization Act of 14 1996"; 15 (iv) in subparagraph (B)— (I) by striking "State geological 16 17 surveys" and inserting "Association"; 18 and 19 (II) by striking "date of enactment of this Act" and inserting "date 20 21 of enactment of the National Geologic 22 Mapping Reauthorization Act of 23 1996"; and (v) in subparagraph (C)— 24

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1	(I) by striking "date of enact-
2	ment of this Act" and inserting "date
3	of enactment of the National Geologic
4	Mapping Reauthorization Act of
5	1996'';
6	(II) by striking "Committee on
7	Natural Resources" and inserting
8	"Committee on Resources";
9	(III) in clauses (i) and (ii) by in-
10	serting "and the Association" after
11	"the Survey";
12	(IV) by adding "and" at the end
13	of clause (ii); and
14	(V) by striking "; and" at the
15	end of clause (iii) and all that follows
16	through the end of the subparagraph
17	and inserting a period; and
18	(C) in paragraph (2)—
19	(i) by inserting "RESPONSIBILITIES
20	OF THE SECRETARY.—" before "In addi-
21	tion to"; and
22	(ii) in subparagraph (A) by striking
23	"State geological surveys" and inserting
24	"Association";
25	(3) in subsection (c)—

1	(A) in paragraph (2) by striking "interpre-
2	tive" and inserting "interpretative"; and
3	(B) in paragraph (4) by striking "aware-
4	ness for" and inserting "awareness of"; and
5	(4) in subsection (d)—
6	(A) in paragraph (1) by inserting "FED-
7	ERAL COMPONENT.—" before "A Federal";
8	(B) in paragraph (2)—
9	(i) by inserting "Support compo-
10	NENT.—" before "A geologic"; and
11	(ii) by striking subparagraph (D) and
12	inserting the following:
13	"(D) geochronologic and isotopic investiga-
14	tions that—
15	"(i) provide radiometric age dates for
16	geologic-map units; and
17	"(ii) fingerprint the geothermometry,
18	geobarometry, and alteration history of
19	geologic-map units,
20	which investigations shall be contributed to a
21	national geochronologic data base;";
22	(C) in paragraph (3) by inserting "STATE
23	COMPONENT.—" before "A State"; and
24	(D) by striking paragraph (4) and insert-
25	ing the following:

1	"(4) Education component.—A geologic
2	mapping education component—
3	"(A) the objectives of which shall be—
4	"(i) to develop the academic programs
5	that teach earth-science students the fun-
6	damental principles of geologic mapping
7	and field analysis; and
8	"(ii) to provide for broad education in
9	geologic mapping and field analysis
10	through support of field studies;
11	"(B) investigations under which shall be
12	integrated with the other mapping components
13	of the geologic mapping program and shall re-
14	spond to priorities identified for those compo-
15	nents; and
16	"(C) Federal funding for which shall be
17	matched by non-Federal sources on a 1-to-1
18	basis.".
19	(c) Advisory Committee.—Section 5 of the Na-
20	tional Geologic Mapping Act of 1992 (43 U.S.C. 31d) is
21	amended—
22	(1) by striking subsection (a) and inserting the
23	following:

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"(1) IN GENERAL.—There shall be established
 a 10-member geologic mapping advisory committee
 to advise the Director on planning and implementa tion of the geologic mapping program.

5 "(2) MEMBERS EX OFFICIO.—Federal agency
6 members shall include the Administrator of the En7 vironmental Protection Agency or a designee, the
8 Secretary of Energy or a designee, the Secretary of
9 Agriculture or a designee, and the Assistant to the
10 President for Science and Technology or a designee.

11 "(3) APPOINTED MEMBERS.—Not later than 90 12 days after the date of enactment of the National 13 Geologic Mapping Reauthorization Act of 1996, in 14 consultation with the Association, the Secretary shall 15 appoint to the advisory committee 2 representatives 16 from the Survey (including the Chief Geologist, as 17 Chairman), 2 representatives from the State geologi-18 cal surveys, 1 representative from academia, and 1 19 representative from the private sector."; and

20 (2) in subsection (b)(3) by striking "and State"
21 and inserting ", State, and university".

(d) GEOLOGIC MAPPING PROGRAM IMPLEMENTATION
PLAN.—Section 6 of the National Geologic Mapping Act
of 1992 (43 U.S.C. 31e) is amended—

(1) in paragraph (1) by inserting "cooperative"
after "national";
(2) by striking paragraph $(3)(C)$ and inserting
the following:
"(C) for the State geologic mapping com-
ponent, a priority-setting mechanism that re-
sponds to—
"(i) specific intrastate needs for geo-
logic-map information; and
"(ii) interstate needs shared by adja-
cent entities that have common require-
ments; and";
(3) by striking paragraphs (4) and (5) and in-
serting the following:
((4) a mechanism for adopting scientific and
technical mapping standards for preparing and pub-
lishing general-purpose and special-purpose geologic
maps to—
"(A) ensure uniformity of cartographic and
scientific conventions; and
"(B) provide a basis for judgment as to
the comparability and quality of map products;
and"; and
(4) by redesignating paragraph (6) as para-
graph (5).

(e) NATIONAL GEOLOGIC-MAP DATA BASE.—Section
 7 of the National Geologic Mapping Act of 1992 (43
 U.S.C. 31f) is amended by striking subsection (b) and in 4 serting the following:

5 "(b) STANDARDIZATION.—

6 "(1) IN GENERAL.—Geologic maps contributed 7 to the national archives shall have format, symbols, 8 and technical attributes that adhere to standards so 9 that archival information can be accessed, ex-10 changed, and compared efficiently and accurately, as 11 required by Executive Order 12906 (59 Fed. Reg. 12 17,671 (1994)), which established the National Spa-13 tial Data Infrastructure.

14 "(2) DEVELOPMENT OF STANDARDS.—Entities 15 that contribute geologic maps to the national ar-16 chives shall develop the standards described in para-17 graph (1) in cooperation with the Federal Geo-18 graphic Data Committee, which is charged with 19 standards development and other data coordination 20 activities as described in Office of Management and 21 Budget revised Circular A–16.".

(f) ANNUAL REPORT.—Section 8 of the National
Geologic Mapping Act of 1992 (43 U.S.C. 31g) is amended in the first sentence—

(1) by striking "Committee on Natural Re-1 2 sources" and inserting "Committee on Resources"; 3 and (2) by striking "program, and describing and 4 5 evaluating progress" and inserting "program and 6 describing and evaluating the progress". 7 (g) AUTHORIZATION OF APPROPRIATIONS.—Section 8 9 of the National Geologic Mapping Act of 1992 (43) 9 U.S.C. 31h) is amended to read as follows: **"SEC. 9. AUTHORIZATION OF APPROPRIATIONS.** 10 11 "(a) IN GENERAL.—There are authorized to be ap-12 propriated to carry out the national cooperative geologic 13 mapping program under this Act— 14 "(1) \$24,000,000 for fiscal year 1997; "(2) \$26,000,000 for fiscal year 1998; 15 "(3) \$28,000,000 for fiscal year 1999; and 16 17 "(4) \$30,000,000 for fiscal year 2000. 18 "(b) Allocation of Appropriated Funds.— 19 "(1) IN GENERAL.—Of the amount of funds 20 that are appropriated under subsection (a) for any 21 fiscal year up to the amount that is equal to the 22 amount appropriated to carry out the national coop-23 erative geologic mapping program for fiscal year 1996-24

"(A) not less than 20 percent shall be allo-
cated to State mapping activities; and
"(B) not less than 2 percent shall be allo-
cated to educational mapping activities.
"(2) Increased appropriations.—Of the
amount of funds that are appropriated under sub-
section (a) for any fiscal year up to the amount that
exceeds the amount appropriated to carry out the
national cooperative geologic mapping program for
fiscal year 1996—
"(A) for fiscal year 1997—
"(i) 76 percent shall be allocated for
Federal mapping and support mapping ac-
tivities;
"(ii) 22 percent shall be allocated for
State mapping activities; and
"(iii) 2 percent shall be allocated for
educational mapping activities;
"(B) for fiscal year 1998—
"(i) 75 percent shall be allocated for
Federal mapping and support mapping ac-
tivities;
"(ii) 23 percent shall be allocated for
State mapping activities; and

"(iii) 2 percent shall be allocated for 1 2 educational mapping activities; 3 "(C) for fiscal year 1999— "(i) 74 percent shall be allocated for 4 5 Federal mapping and support mapping ac-6 tivities; "(ii) 24 percent shall be allocated for 7 8 State mapping activities; and 9 "(iii) 2 percent shall be allocated for 10 educational mapping activities; and "(D) for fiscal year 2000— 11 "(i) 73 percent shall be allocated for 12 Federal mapping and support mapping ac-13 14 tivities; "(ii) 25 percent shall be allocated for 15 16 State mapping activities; and 17 "(iii) 2 percent shall be allocated for 18 educational mapping activities.". Passed the House of Representatives July 30, 1996. Attest: ROBIN H. CARLE, Clerk.

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September 13, 1996

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