

capabilities, and requirements of the State geological surveys, into the nationwide geologic mapping program;

(C) mechanisms for identifying short- and long-term priorities for each component of the geologic mapping program, including—

(i) for the Federal component, a priority-setting mechanism that responds to—

(I) Federal mission requirements for geologic map information;

(II) critical scientific problems that require geologic maps for their resolution; and

(III) shared Federal and State needs for geologic maps, in which joint Federal-State geologic mapping projects are in the national interest;

(ii) for the State component, a priority-setting mechanism that responds to—

(I) specific intrastate needs for geologic map information; and

(II) interstate needs shared by adjacent States that have common requirements; and

(iii) for the education component, a priority-setting mechanism that responds to requirements for geologic map information that are dictated by Federal and State mission requirements;

(D) a mechanism for adopting scientific and technical mapping standards for preparing and publishing general- and special-purpose geologic maps to—

(i) ensure uniformity of cartographic and scientific conventions; and

(ii) provide a basis for assessing the comparability and quality of map products; and

(E) a mechanism for monitoring the inventory of published and current mapping investigations nationwide to facilitate planning and information exchange and to avoid redundancy.

(Pub. L. 102-285, § 6, as added Pub. L. 106-148, § 6, Dec. 9, 1999, 113 Stat. 1722.)

#### Editorial Notes

##### PRIOR PROVISIONS

A prior section 31e, Pub. L. 102-285, § 6, May 18, 1992, 106 Stat. 170; Pub. L. 105-36, § 3(d), Aug. 5, 1997, 111 Stat. 1110, provided for the preparation of a geologic mapping program implementation plan, prior to repeal by Pub. L. 106-148, § 6, Dec. 9, 1999, 113 Stat. 1722.

### § 31f. National geologic map database

#### (a) Establishment

##### (1) In general

The Survey shall establish a national geologic-map database.

##### (2) Function

The database shall serve as a national catalog and archive, distributed through links to Federal and State geologic map holdings, that includes—

(A) all maps developed with funding provided by the National Cooperative Geologic Mapping Program, including under the Federal, State, and education components;

(B) the databases developed in connection with investigations under subclauses (III), (IV), and (V) of section 31c(d)(1)(C)(ii) of this title; and

(C) other maps and data that the Survey and the Association consider appropriate.

#### (b) Standardization

##### (1) In general

Geologic maps contributed to the national archives shall have format, symbols, and technical attributes that adhere to standards so that archival information can be accessed, exchanged, and compared efficiently and accurately, as required by Executive Order 12906 (59 Fed. Reg. 17,671 (1994)), which established the National Spatial Data Infrastructure.

##### (2) Development of standards

Entities that contribute geologic maps to the national archives shall develop the standards described in paragraph (1) in cooperation with the Federal Geographic Data Committee, which is charged with standards development and other data coordination activities as described in Office of Management and Budget revised Circular A-16.

(Pub. L. 102-285, § 7, May 18, 1992, 106 Stat. 171; Pub. L. 105-36, § 3(e), Aug. 5, 1997, 111 Stat. 1110; Pub. L. 106-148, § 7, Dec. 9, 1999, 113 Stat. 1723; Pub. L. 111-11, title XI, § 11001(g), Mar. 30, 2009, 123 Stat. 1415.)

#### Editorial Notes

##### REFERENCES IN TEXT

Executive Order 12906, referred to in subsec. (b)(1), is set out as a note under section 1457 of this title.

##### AMENDMENTS

2009—Subsec. (a)(1). Pub. L. 111-11, § 11001(g)(1), substituted “geologic-map” for “geologic map”.

Subsec. (a)(2)(A). Pub. L. 111-11, § 11001(g)(2), added subpar. (A) and struck out former subpar. (A) which read as follows: “all maps developed under the Federal component and the education component;”.

1999—Pub. L. 106-148 substituted “geologic map database” for “geologic-map data base” in section catchline, added subsec. (a), and struck out heading and text of former subsec. (a). Text read as follows: “The Survey shall establish a national geologic-map data base. Such data base shall be a national archive that includes all maps developed pursuant to sections 31a to 31h of this title, the data bases developed pursuant to the investigations under sections 31c(d)(2)(C), (D), (E), and (F) of this title, and other maps and data as the Survey deems appropriate.”

1997—Subsec. (b). Pub. L. 105-36 added subsec. (b) and struck out heading and text of former subsec. (b). Text read as follows: “Geologic maps contributed to the national archives should have standardized format, symbols, and technical attributes so that archival information can be assimilated, manipulated, accessed, exchanged, and compared efficiently and accurately.”

#### § 31g. Biennial report

Not later than 3 years after March 30, 2009, and biennially thereafter, the Secretary shall submit to the Committee on Resources of the House of Representatives and the Committee on Energy and Natural Resources of the Senate a report that—

(1) describes the status of the national geologic mapping program;

(2) describes and evaluates the progress achieved during the preceding 2 years in developing the national geologic map database; and (3) includes any recommendations that the Secretary may have for legislative or other action to achieve the purposes of sections 31c through 31f of this title.

(Pub. L. 102-285, §8, as added Pub. L. 106-148, §8, Dec. 9, 1999, 113 Stat. 1724; amended Pub. L. 111-11, title XI, §11001(h), Mar. 30, 2009, 123 Stat. 1415.)

#### Editorial Notes

##### PRIOR PROVISIONS

A prior section 31g, Pub. L. 102-285, §8, May 18, 1992, 106 Stat. 171; Pub. L. 103-437, §16(a)(1), Nov. 2, 1994, 108 Stat. 4594; Pub. L. 105-36, §3(f), Aug. 5, 1997, 111 Stat. 1111; Pub. L. 105-362, title IX, §902(b), Nov. 10, 1998, 112 Stat. 3291, directed the Secretary to submit a biennial report to Congress describing the status of the nationwide geologic mapping program and evaluating the progress achieved during the preceding fiscal year in developing the national geologic-map data base, prior to repeal by Pub. L. 106-148, §8, Dec. 9, 1999, 113 Stat. 1724.

##### AMENDMENTS

2009—Pub. L. 111-11 substituted “Not later than 3 years after March 30, 2009, and biennially” for “Not later 3 years after December 9, 1999, and biennially”.

#### Statutory Notes and Related Subsidiaries

##### CHANGE OF NAME

Committee on Resources of House of Representatives changed to Committee on Natural Resources of House of Representatives by House Resolution No. 6, One Hundred Tenth Congress, Jan. 5, 2007.

#### § 31h. Authorization of appropriations

##### (a) In general

There is authorized to be appropriated to carry out sections 31a to 31h of this title \$64,000,000 for each of fiscal years 2009 through 2031.

##### (b) Allocation of appropriations

Of any amounts appropriated for any fiscal year in excess of the amount appropriated for fiscal year 2005—

- (1) 50 percent shall be available for the State component; and
- (2) 4 percent shall be available for the education component.

(Pub. L. 102-285, §9, as added Pub. L. 106-148, §9, Dec. 9, 1999, 113 Stat. 1724; amended Pub. L. 111-11, title XI, §11001(i), Mar. 30, 2009, 123 Stat. 1416; Pub. L. 116-9, title V, §5002(a)(1), Mar. 12, 2019, 133 Stat. 768; Pub. L. 117-58, div. D, title II, §40202(b), Nov. 15, 2021, 135 Stat. 959.)

#### Editorial Notes

##### REFERENCES IN TEXT

Sections 31a to 31h of this title, referred to in subsec. (a), was in the original “this Act”, meaning Pub. L. 102-285, known as the National Geologic Mapping Act of 1992, which is classified principally to sections 31a to 31h of this title. For complete classification of this Act to the Code, see Short Title note set out under section 31a of this title and Tables.

##### PRIOR PROVISIONS

A prior section 31h, Pub. L. 102-285, §9, May 18, 1992, 106 Stat. 171; Pub. L. 105-36, §3(g), Aug. 5, 1997, 111 Stat.

1111, authorized appropriations for the national cooperative geologic mapping program, prior to repeal by Pub. L. 106-148, §9, Dec. 9, 1999, 113 Stat. 1724.

##### AMENDMENTS

2021—Subsec. (a). Pub. L. 117-58 substituted “2031” for “2023”.

2019—Subsec. (a). Pub. L. 116-9 substituted “2023” for “2018”.

2009—Subsec. (a). Pub. L. 111-11, §11001(i)(1), added subsec. (a) and struck out former subsec. (a) which appropriated funds to carry out sections 31a to 31h of this title for fiscal years 1999 to 2005.

Subsec. (b). Pub. L. 111-11, §11001(i)(2)(A), substituted “2005” for “2000” in introductory provisions.

Subsec. (b)(1). Pub. L. 111-11, §11001(i)(2)(B), substituted “50” for “48”.

Subsec. (b)(2). Pub. L. 111-11, §11001(i)(2)(C), which directed amendment of par. (2) “by striking 2 and inserting ‘4’”, was executed by substituting “4” for “2”, to reflect the probable intent of Congress.

#### Statutory Notes and Related Subsidiaries

##### WAGE RATE REQUIREMENTS

For provisions relating to rates of wages to be paid to laborers and mechanics on projects for construction, alteration, or repair work funded under div. D or an amendment by div. D of Pub. L. 117-58, including authority of Secretary of Labor, see section 18851 of Title 42, The Public Health and Welfare.

#### § 31i. Report on resource research activities

Once every five years the National Academy of Sciences shall review and report on the resource research activities of the Survey.

(Pub. L. 104-134, title I, §101(c) [title I], Apr. 26, 1996, 110 Stat. 1321-156, 1321-165; renumbered title I, Pub. L. 104-140, §1(a), May 2, 1996, 110 Stat. 1327.)

#### § 31j. Biological research activity of Survey; review and report by National Academy of Sciences

Beginning in fiscal year 1998 and once every five years thereafter, the National Academy of Sciences shall review and report on the biological research activity of the Survey.

(Pub. L. 104-208, div. A, title I, §101(d) [title I], Sept. 30, 1996, 110 Stat. 3009-181, 3009-189.)

#### § 31k. National Volcano Early Warning and Monitoring System

##### (a) Definitions

In this section:

##### (1) Secretary

The term “Secretary” means the Secretary, acting through the Director of the United States Geological Survey.

##### (2) System

The term “System” means the National Volcano Early Warning and Monitoring System established under subsection (b)(1)(A).

##### (b) National Volcano Early Warning and Monitoring System

##### (1) Establishment

##### (A) In general

The Secretary shall establish within the United States Geological Survey a system,