

- (i) the Secretary of Transportation;
- (ii) the Administrator of the Federal Aviation Administration;
- (iii) the Administrator of the National Oceanic and Atmospheric Administration;
- and
- (iv) the Administrator of the Federal Emergency Management Agency.

**(E) Collaboration**

The Secretary of Commerce shall collaborate with the Secretary to implement activities carried out under this section related to the expertise of the National Oceanic and Atmospheric Administration, including observations and modeling of emissions of gases, aerosols, and ash, atmospheric dynamics and chemistry, and ocean chemistry resulting from volcanic eruptions.

**(4) Annual report**

Annually, the Secretary shall submit to Congress a report that describes the activities carried out under this section.

**(c) Funding**

**(1) Authorization of appropriations, United States Geological Survey**

There is authorized to be appropriated to the United States Geological Survey to carry out this section \$55,000,000 for the period of fiscal years 2019 through 2023.

**(2) Authorization of appropriations, National Oceanic and Atmospheric Administration**

There is authorized to be appropriated to the National Oceanic and Atmospheric Administration to carry out this section such sums as may be necessary for the period of fiscal years 2023 through 2024.

**(3) Effect on other sources of Federal funding**

Amounts made available under this subsection shall supplement, and not supplant, Federal funds made available for other hazards activities and programs of the United States Geological Survey and the National Oceanic and Atmospheric Administration.

(Pub. L. 116–9, title V, §5001, Mar. 12, 2019, 133 Stat. 766; Pub. L. 117–263, div. J, title CV, §10501(a)–(e), Dec. 23, 2022, 136 Stat. 3993, 3994.)

**Editorial Notes**

AMENDMENTS

2022—Subsec. (a)(2) to (4). Pub. L. 117–263, §10501(a), added pars. (2) and (4) and redesignated former par. (2) as (3).

Subsec. (b)(1)(B)(iii). Pub. L. 117–263, §10501(b), added cl. (iii).

Subsec. (b)(2)(B). Pub. L. 117–263, §10501(c)(1), struck out “and” before “spectrometry” and inserted “, and unoccupied aerial vehicles” after “emissions”.

Subsec. (b)(2)(C). Pub. L. 117–263, §10501(c)(2), added subpar. (C).

Subsec. (b)(3)(A)(iii). Pub. L. 117–263, §10501(d)(1), added cl. (iii).

Subsec. (b)(3)(E). Pub. L. 117–263, §10501(d)(2), added subpar. (E).

Subsec. (c)(1). Pub. L. 117–263, §10501(e)(1), inserted “, United States Geological Survey” after “appropriations” in heading and “to the United States Geological Survey” after “appropriated” in text.

Subsec. (c)(2). Pub. L. 117–263, §10501(e)(3), added par. (2). Former par. (2) redesignated (3).

Subsec. (c)(3). Pub. L. 117–263, §10501(e)(2), (4), redesignated par. (2) as (3), struck out “United States Geological Survey” before “hazards activities”, and inserted “of the United States Geological Survey and the National Oceanic and Atmospheric Administration” after “programs”.

**Statutory Notes and Related Subsidiaries**

DEFINITION OF “SECRETARY”

Secretary means the Secretary of the Interior, see section 2 of Pub. L. 116–9, set out as a note under section 1 of this title.

**§ 311. Earth Mapping Resources Initiative**

**(a) Definition of critical mineral**

In this section, the term “critical mineral” has the meaning given the term in section 1606(a) of title 30.

**(b) Establishment**

There is established within the United States Geological Survey an initiative, to be known as the “Earth Mapping Resources Initiative” (referred to in this section as the “Initiative”).

**(c) Purpose**

The purpose of the Initiative shall be to accelerate efforts to carry out the fundamental resources and mapping mission of the United States Geological Survey by—

- (1) providing integrated topographic, geologic, geochemical, and geophysical mapping;
- (2) accelerating the integration and consolidation of geospatial and resource data; and
- (3) providing interpretation of subsurface and above-ground mineral resources data.

**(d) Cooperative agreements**

**(1) In general**

In carrying out the Initiative, the Director of the United States Geological Survey may enter into cooperative agreements with State geological surveys.

**(2) Effect**

Nothing in paragraph (1) precludes the Director of the United States Geological Survey from using existing contracting authorities in carrying out the Initiative.

**(e) Comprehensive mapping modernization**

**(1) In general**

Not later than 10 years after November 15, 2021, the Initiative shall complete an initial comprehensive national modern surface and subsurface mapping and data integration effort.

**(2) Approach**

In carrying out paragraph (1) with regard to minerals, mineralization, and mineral deposits, the Initiative shall focus on the full range of minerals, using a whole ore body approach rather than a single commodity approach, to emphasize all of the recoverable critical minerals in a given surface or subsurface deposit.

**(3) Priority**

In carrying out paragraph (1) with regard to minerals, mineralization, and mineral deposits, the Initiative shall prioritize mapping and assessing critical minerals.

**(4) Inclusions**

In carrying out paragraph (1), the Initiative shall also—

(A) map and collect data for areas containing mine waste to increase understanding of above-ground critical mineral resources in previously disturbed areas; and

(B) provide for analysis of samples, including samples within the National Geological and Geophysical Data Preservation Program established under section 15908(b) of title 42 for the occurrence of critical minerals.

**(f) Availability**

The Initiative shall make the geospatial data and metadata gathered by the Initiative under subsection (e)(1) electronically publicly accessible on an ongoing basis.

**(g) Integration of data sources**

The Initiative shall integrate data sources, including data from—

(1) the National Cooperative Geologic Mapping Program established by section 31c(a)(1) of this title;

(2) the National Geological and Geophysical Data Preservation Program established under section 15908(b) of title 42;

(3) the USMIN Mineral Deposit Database of the United States Geological Survey;

(4) the 3D Elevation Program established under section 3104(a) of this title; and

(5) other relevant sources, including sources providing geothermal resources data.

**(h) Authorization of appropriations**

There is authorized to be appropriated to the Secretary to carry out this section \$320,000,000 for the period of fiscal years 2022 through 2026, to remain available until expended.

(Pub. L. 117–58, div. D, title II, §40201, Nov. 15, 2021, 135 Stat. 958.)

**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.

**DEFINITION OF “SECRETARY”**

For definition of Secretary as used in this section, see section 18701 of Title 42, The Public Health and Welfare.

**§ 32. Acting Director**

The Secretary of the Interior may authorize one of the geologists to act as Director of the United States Geological Survey in the absence of that officer.

(July 31, 1894, ch. 174, §1, 28 Stat. 197; Pub. L. 102–154, title I, Nov. 13, 1991, 105 Stat. 1000.)

**Statutory Notes and Related Subsidiaries****CHANGE OF NAME**

“United States Geological Survey” substituted in text for “Geological Survey” pursuant to provision of title I of Pub. L. 102–154, set out as a note under section 31 of this title.

**Executive Documents****TRANSFER OF FUNCTIONS**

For transfer of functions of other officers, employees, and agencies of Department of the Interior, with certain exceptions, to Secretary of the Interior, with power to delegate, see Reorg. Plan No. 3 of 1950, §§1, 2, eff. May 24, 1950, 15 F.R. 3174, 64 Stat. 1262, set out under section 1451 of this title.

**§ 33. Repealed. Aug. 10, 1956, ch. 1041, § 53, 70A Stat. 641**

Section, act June 16, 1880, ch. 235, 21 Stat. 274, authorized Secretary of War to detail officers of Ordnance Corps to serve with Geological Survey.

**§ 34. Scientific employees**

The scientific employees of the United States Geological Survey shall be selected by the Director, subject to the approval of the Secretary of the Interior exclusively for their qualifications as professional experts.

(July 7, 1884, ch. 332, 23 Stat. 212; Pub. L. 102–154, title I, Nov. 13, 1991, 105 Stat. 1000.)

**Statutory Notes and Related Subsidiaries****CHANGE OF NAME**

“United States Geological Survey” substituted in text for “Geological Survey” pursuant to provision of title I of Pub. L. 102–154, set out as a note under section 31 of this title.

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**§ 35. Repealed. Pub. L. 87–304, §9(a)(2), Sept. 26, 1961, 75 Stat. 664**

Section, act June 30, 1906, ch. 3914, §1, 34 Stat. 727, authorized scientific and other employees of the United States Geological Survey employed in the field to make assignments of pay, and that they be reimbursed for expenses incurred in the discharge of duty in the field and paid from personal funds. See section 5525 of Title 5, Government Organization and Employees.

**§ 36. Purchase of books**

The purchase of professional and scientific books and periodicals needed for statistical purposes by the scientific divisions of the United States Geological Survey is authorized to be made and paid for out of appropriations made for the said Survey.

(June 28, 1902, ch. 1301, §1, 32 Stat. 455.)

**Executive Documents****TRANSFER OF FUNCTIONS**

For transfer of functions of other officers, employees, and agencies of Department of the Interior, with certain exceptions, to Secretary of the Interior, with power to delegate, see Reorg. Plan No. 3 of 1950, §§1, 2, eff. May 24, 1950, 15 F.R. 3174, 64 Stat. 1262, set out under section 1451 of this title.