This revised and expanded classification system is a tool for classifying and retrieving geoscience library materials. The index promotes quick access to the classification tables.

This bulletin is a revision of the original edition, which was first printed in 1992
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U.S. Geological Survey Library Classification System

by R. Scott Sasscer

Abstract

The U.S. Geological Survey Library classification system has been designed for earth science libraries. It is a tool for assigning call numbers to earth science and allied pure science materials in order to collect these materials into related subject groups on the library shelves and arrange them alphabetically by author and title. The classification can be used as a retrieval system to access materials through the subject and geographic numbers.

The classification scheme has been developed over the years since 1904 to meet the ever-changing needs of increased specialization and the development of new areas of research in the earth sciences. The system contains seven schedules:

- Subject schedule
- Geological survey schedule
- Earth science periodical schedule
- Government document periodical schedule
- General science periodical schedule
- Earth science map schedule
- Geographic schedule

Introduction provides detailed instructions on the construction of call numbers for works falling into the framework of the classification schedules.

The tables following the introduction can be quickly accessed through the use of the newly expanded subject index.

The purpose of this publication is to provide the earth science community with a classification and retrieval system for earth science materials, to offer sufficient explanation of its structure and use, and to enable library staff and clientele to classify or access research materials in a library collection.

Introduction

The newly revised classification system presented in this report is designed for use in the U.S. Geological Survey (USGS) Library and other earth science libraries.

Prior to the administration of Fred Boughton Weeks, 1903-1908, the library lacked a classification scheme. The Dewey Decimal system for geologic material was not sufficiently developed to accommodate the range of specialized material collected at the USGS Library, and The Library of Congress Classification System had not yet been published. The library staff and patrons were concerned about continued development of the collection without an acceptable classification scheme.

Mr. Weeks and bibliographer John M. Nickles of the library staff, with the assistance of three consultants from the New York Public Library, developed the USGS classification system designed specifically for an earth science library.
Seven schedules were created:

1. General subject collection
   --consists of disciplines in the earth sciences, such as geology, petrology, mineralogy,
   paleontology, and biology. The pure sciences are included insofar as they augment the
   earth sciences, for example, physics, chemistry, engineering, mathematics, and computer
   sciences. The schedule allows for integration of general works throughout.

2. Geological survey collection
   --contains the monographs, periodicals, and monographic series issued by the geological
   surveys of the world. The notation for this schedule consists of numbers enclosed by
   parenthesis, (XXX).

3. Earth science periodical collection
   --contains publications issued by earth science societies, associations, and earth science
   departments of universities. The notation for this schedule is identified by a uppercase G
   and a geographic number, G(XXX).

4. Government documents collection
   --contains periodicals and monographic series issued by federal, state, provincial and local
   governments throughout the world. The notation for this schedule is identified by an
   uppercase P and a geographic number, P(XXX).

5. General science periodical collection
   --contains science periodicals issued by societies, associations, and universities throughout
   the world. The notation for this collection is identified by an uppercase S and a geographic
   number, S(XXX).

6. Earth science map collection
   --contains earth science maps issued by all the sources listed above. The notation of the
   map collection consists of an uppercase M followed by a geographic number and a subject
   number, M(XXX)X.

7. Geographic schedule
   --consists of numbers enclosed in parentheses that can be combined with notation from the
   other schedules. The geographic number is highly visible throughout the classification
   system and thus immediately recognizable when scanning the system for a particular locale.
   For example, the number 203 represents the subject geology. When the geographic number
   for the United States, (200), is added to the number 203, i.e., 203(200), the resulting number
   represents a study on the geology of the United States. Using a similar methodology,
   studies on earthquakes in California would be 240(276), and mineral resources of Russia
   403(570).

**Subject Classification Schedule**

The subject schedule has three main divisions: general works, earth sciences, and pure sciences.
The collection consists chiefly of monographs but includes those periodicals that are narrow in
scope, international in scope, or those issued by an international agency.
A. General Outline of the Subject Classification Schedule

General works:

001-095:  Science, computer science, information systems, bibliographies, directories, dictionaries, and biographies.

Earth sciences:

101-190:  Mineralogy and petrology
201-298:  General geology, geologic hazards, tectonics, geodynamics, structural geology, geophysics, and geochemistry.
301-371:  Historical and stratigraphic geology.
401-471:  Mineral resources, mineral industries, mines and mining, and groups of minerals.
501-590:  Geography, geomorphology, meteorology, landforms, oceanography, and environmental sciences.
601-699:  Paleontology, paleoecology paleogeography.

Pure sciences:

701-795:  Mathematics, astronomy, engineering, geodesy, surveying, cartography, and hydrology.
801-895:  Physics and chemistry.
901-999:  Biology, ecology, evolution, botany, agriculture, forestry, and zoology.

B. Constructing Call Numbers

Call numbers consist of a classification number, shelf list number, title mark and date.

(1) Classification number

The classification number consists of numbers 001-999 taken from the subject schedule (see Sections 1-10).

(2) Geographic notation

To add a region to a call number, consult the geographic schedule and choose the appropriate parenthetical number, (000)-(995), for the geographic locale represented in the study (see Section 11).

EXAMPLE

Title: China’s energy and mineral industries / by J.P. Dorian, 1988.
Class no.: 403
Geographic no.: (610)
Complete class no.: 403(610)
(3) **Shelf list number**

The shelf list number contains information about the main entry of the piece being classified and also provides the work with its singular location on the shelves or in the library online system. The first part of the number consists of an upper case letter and usually a three digit number representing either an author or a title main entry. The number for an author main entry is unique for each author. The shelf list number for an author main entry is completed by lower case letter representing the title of a work and is called a title mark. The title mark allows the various works of an author to be arranged in alphabetical order after the unique three digit number.

The shelf list number for a title main entry is usually complete with an uppercase letter and a three digit number. If the shelf list number duplicates another number, add a title mark to make it unique. Titles beginning with numbers are treated as words when creating shelf list numbers. If the title consists of one word, construct the shelf list number from successive letters within that word.

To complete the call number for the example given above, a shelf list number is needed. As previously explained, the shelf list number has three elements.

The first element, an uppercase letter, is taken from the first letter of the first word of the main entry.

The second element, a three digit number, is taken from Library of Congress shelf listing tables (see below). The final element is the title mark taken from the title, or in case of a title main entry, from the next distinctive word in the title.

**EXAMPLES**

Call number with author main entry and no region:

Title: Multivariate geostatistics / H. Wackernagel, 1995.

Class no.: 208.2
Shelf list no.: W323
Title mark: m
Date: 1995
Call number: 208.2 W323m 1995

Call number with author main entry and a region:

Title: Expert witness guide for scientists and engineers / A.E. Surosky, 1993

Class no.: 760
Region: (200)
Shelf list no.: S976
Title mark: e
Date: 1993
Call number: 760(200) S976e 1993

Call number with title main entry and a region:

Title: China’s energy and mineral industries / edited by J.P. Dorian, 1989.
Class no.: 403
Region: (610)
(4) Dates in call numbers

Current classification policy has a date added to the end of monographic call numbers. In previous years a date was used only for successive editions. The date is usually taken from the imprint. Call numbers for congresses, however, use the date of the congress rather than the year of publication.

EXAMPLE
Monograph with date:


Class no.: 240.2
Shelf list no.: H377e
Date: 1988

Congress with date:


Class no.: 401(570)
Shelf list no.: I573m
Date: 1994

Multi volume sets that are published with different edition dates for various volumes are classified without a date.

Call numbers that would duplicate an earlier edition that was published in the same year are made unique by adding a, b, c, etc., to the date for successive versions.

(5) Size in call numbers

Due to restricted space at the Reston Library, publications are grouped according to size. The sizes are:

Octavo up to 28 cm.
Oversize (quarto) 28.1 to 33 cm.
Folio 33.1 to 46 cm.
Superfolio 46.1 up

Prior to July 1999, oversize materials were designated by the addition of a lower case letter in front of the shelf list number: q (oversize), f (folio) or ff (superfolio). These designations are no longer used. Instead, shelf location is indicated using a size designation label above the call number.
(6) Translations

Translations are classified according to their origin:

1. Translations by publishing houses

Translations by publishing houses are given the call number of the original with a capital letter representing the language of the translation added to the end of the title mark.

If the bibliographic information of the original is unknown the call number is based on the bibliographic information of the translation. A capital letter is added to the end of the title mark for the language of the translation.

**EXAMPLE**

Call number: 610 L528w


Call number: 610 L528wE

2. Translations by USGS translators or translation services

These translations are not classified or cataloged. Instead, they are kept in folders in the library’s Translation file.

(7) Restricted material

All reports with the note: “for administrative use only,” “for official use only,” or similar notes are treated as restricted materials and designated by a “RESTRICTED” label above the call number.
Prior to July 1999, restricted materials were designated with a * (star) in front of the classification number.

**EXAMPLE**
Title: Mineral summaries
Note: “for official use only”

RESTRICTED
Call no.: 403(271) M562 1990

**Geological Survey Schedule (XXX)**

The geological survey schedule contains monographs, periodicals and monographic series issued by the geological surveys of the world. These works are classified according to the location of the geological survey issuing the publication and therefore the classification number consists of the geographic number for that region (see Section 11).

**A. Constructing Call Numbers for Monographs**

Call numbers for monographs in the geological survey schedule consist of a geographic number, a shelf list number, and a date.

**EXAMPLE**

(1) **Author main entry**

Title: Ground-water resources of the Surman area ... / by William Ogilbee.

Class no.: (200) for USGS
Shelf list no.: O344 for author
Title mark: g for title
Issuing date: 1989 imprint date

Call no. (200) O344g 1989

(2) **Title main entry**

Title: Characterization of organic contaminants and environmental samples associated with Mount St. Helens / by W.E. Pereira ... [et al.].

Class no.: (200) for USGS
Shelf list no.: C472 for title
Issuing date: 1980 for imprint
Call no. (200) C472 1980

**B. Constructing Call Numbers for Periodicals and Monographic Series**

Current practice uses the title main entry as the basis for the shelf list number. An exception to the current practice are serials issued by the U.S. Geological Survey, Water Resources Division.
EXAMPLES
(1) Series: Water-resources investigation reports.

(200) for USGS
WR for Water Resources Division
 i Title mark

Call no. (200) WRi

(2) Series: Hawaii District activities.

(200) for USGS
WR3 for Water Resources Division
   hd Title mark

Call no.: (200) WR3hd

Earth Science Periodical Schedule G(XXX)

This schedule includes periodicals and monographic series issued by geologic societies, associations, organizations, and geology departments of universities, and publishers’ series on economic geology, geodynamics, geology, historical geology, mineralogy, paleontology, petrology, physical geology, and structural geology.

Periodicals and monographic series on paleontology and natural history issued by university paleontological departments and laboratories, local government departments of paleontology, or museums of natural history are classified in 602 followed by a geographic number (see Section 7).

Constructing Call Numbers

1. The classification number is composed of an uppercase “G” and a geographic number. The geographic number usually presents the place of publication. There are two exceptions:

(a) Publications that report research in one region exclusively, but are published elsewhere, are given the geographic number for the research area.

(b) Periodicals of national associations and societies are usually given the geographic number for the country in which they are located, rather than the local region in which they are issued.

EXAMPLE
American Association of Petroleum Geologists

Class no.: G(200) for United States

Not: G(244) for Tulsa, OK

2. Shelf list number and title mark

Shelf list numbers are based on the name of the issuing agency. The title mark is based on the series title.
Publishers’ series are the exception. Shelf list numbers are based on the title main entry.

**Government Documents Schedule P(XXX)**

This schedule contains periodicals and monographic series issued by federal, state, provincial, and local governments. In the past, monographs were also classed here. The current policy is to class monographic government documents in the subject schedule (see Sections 1-9).

**EXCEPTIONS**

(1) Monographic and serial publications of geological surveys are classified in the geological survey schedule (see Section 12.1).

(2) Publications of all mining and mineral resources bureaus are classified in the subject schedule under the classification number 402 (see Section 5).

**Constructing Call Numbers**

The classification number is composed of an uppercase “P” and a geographic number. The geographic number represents the country, state or province in which the issuing government agency is located.

The shelf list number is constructed from the name of the government agency issuing the work. Title marks are from the title of the publication.

**EXAMPLE**

Title: Report to the Governor and the General Assembly / by Georgia Nuclear Advisory Commission.

Class no.: P(233) for Georgia

Shelf list no.: N466 for Nuclear Advisory Commission

Title mark: r for report

Call number: P(233) N466r

**General Science Periodicals Schedule S(XXX)**

This schedule contains periodicals issued by universities, societies, associations, and publishers’ series on the following topics: archaeology, astronomy, biology, chemistry, computer science,
earthquakes, engineering, geography, geomorphology, geophysics, geothermal resources, geysers, glaciology, hydrology, mathematics, metals, mineral industries, mineral resources, mines and mining, natural resources, oceanography, ore deposits, petroleum, physics, pollution, precious stones, sedimentation, seismology, and volcanoes.

Classifications numbers are constructed with an uppercase “S” and a geographic number representing the place of publication. The same exceptions found in the earth science schedule also apply to this schedule.

Shelf list numbers consist of an uppercase letter representing the issuing body, a three digit number, and a title mark. Shelf list numbers for publishers’ series are based on the title main entry.

**EXAMPLE**
Title: Ohio Journal of Science / by the Ohio Academy of Science.

Class no.:        S(251)  
Shelf list no.:   O346  
Title mark:      o  

Call number: S(251) O346o

**Map and Non-Map Material Call Numbers**

**A. Constructing Monographic Map Call Numbers**

(1) **Classification numbers**

Map classification numbers are composed of three elements: the capital letter "M," a geographic number, and a truncated subject number if needed (for an explanation of truncated subject numbers see 037, computer simulation, section 1).

(2) **Shelf list numbers**

The three digit number in the map shelf list is constructed from C.A. Cutter's author's tables (Bloombert and Evans, 1981).

Shelf list numbers for a monograph are constructed with two or three elements:

(a) **Shelf list numbers with three elements**

A three element shelf list number is composed of a capital letter representing a subregion, quadrangle, valley, basin, or area; a three digit number taken from the Cutter tables; and a work letter representing the main entry. Later editions of the same map will have a date on the third line of the call number.

**EXAMPLE**
M(950)49

M for map
(950) for Hawaii
49 for subject: underground water
(490 abbreviated to 49)
Shelf list number:

P316s

P for subregion: Pearl Harbor
316 from Cutter table
s for author: Soroos

Call number: M(950)49 P316s

(b) Shelf list numbers with two elements

When the contents of a map represents an entire region, the shelf list number is composed of the imprint date and a work letter representing the main entry. If the item was published over several years only the initial publication year is used.

EXAMPLE
Title: Bathymetric map of Fiji (with shallow seismicity), by I.B. Everingham.

Classification number: M(960)24

M for map
(1) for Fiji Islands
24 for subject: seismology
(240 abbreviated to 24)

Shelf list number: 1986e
1986 for imprint date
e for author: Everingham, I. B.

Call number: M(960)24 1986e

B. Map Sets Classification

Definition

Map sets: Multiple maps, issued simultaneously or over time, intended to form a single group covering a given geographic area.

Classification numbers for map sets consist of four elements: capital letter “M” for map, geographic number for the region, an abbreviated subject number, and lower case “s” for map set.

Map set shelf list numbers are constructed according to two alternatives:

(1a) Scale

If all the sheets of the set use one scale, use an abbreviated form of the scale as the shelf list number according to the following procedures:

Delete the initial “1” and the colon following it and the three zeros from the end of the scale. Enter the remaining number in the shelf list line.
Scale is 1:100,000: delete the “1:” and the last “000”. Enter “100” in the shelf list line.

Title: Australia 1:100,000 geological series / Australia.

Classification number: M(800)2s

M   for map
(800) for Australia
2   for subject: geology
s   for set

Shelf list number: 100 for abbreviated scale

Call number: M(800)2s
100

Add a work letter to the shelf list number to resolve conflicts with identical call numbers. If the conflict is not resolved, add a title mark for title of the map set.

(1b) Region/Scale

When the region given on the map is a subregion of the geographic number found in the classification number, the abbreviated scale in the shelf list number is preceded by two letters, the first uppercase and the second lower case, representing the subregion.

Example

Title: Geological map of Greenland, 1:500,000.

Classification number: M(980)2s

M   for map
(980) for region
2   for subject: geology
s   for set

Shelf list number: Gr500

Gr   for subregion: Greenland
500 for abbreviated scale

Call number: M(980)2s Gr500

Resolve call number conflicts by adding work letters and title marks to the shelf list number as described above.

(2) Cutter numbers

Map sets without a constant scale among the various sheets are given shelf list numbers which include a three digit number from the Cutter tables:
EXAMPLE

Title: Weinbau-Standorkarte Rheingau 1:50,000/Hessisches Landesamt fur Bodenforschung.

Classification number: M(530.4)518s

M for map
(530.4) for region: Wurttemburg
518 for subject: soil formation
s for set

Shelf list number: R342h

R for subregion Rheingau
342 from Cutter tables
h for title main entry

Call number: M(530.4)518s R342h

C. Classification of Map Indexes

In order to locate the indexes next to the maps, their call number is that of the map set/series except that the ending “s” is replaced by an “i”:

Set: M(276)58s
Index: M(276) 58i

When an index covers maps of several scales, the smallest scale only will appear in the shelf list numbers of the index:

Set: M(276)58s 100
Index: M(276)58i 100

D. Non-Map Materials Classification Numbers

Classification numbers for non-map materials (posters, tables, etc. that are stored in map cases) are constructed with three elements: uppercase letter “M”, a parenthetical expression (NMM) for non-map material, and a subject number.

EXAMPLE

Title: Fossil shark teeth / sponsored by the Department of Paleobiology.

Class no.: M(NMM)671

M for material in map case
(NMM) for non-map material
671 for subject: fossil sharks
Shelf list numbers:

Shelf list numbers consist of three elements: an initial uppercase letter, followed by a three digit number from the Cutter table, and a title mark if needed.

Shelf list number: F798

F for main entry
798 from Cutter table

Call number: M(NMM)(671)
F798

Special Format Call Numbers

The U.S. Geological Survey Library has found it desirable to distinguish the call numbers of special formats from printed materials. This has been done by adding a special format uppercase term to the end of a standard call number. The following is a list of special formats and the appropriate call number symbols:

<table>
<thead>
<tr>
<th>FORMAT</th>
<th>CALL NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audiocassettes</td>
<td>AUDIOC</td>
</tr>
<tr>
<td>Audio CD-ROM</td>
<td>AUDIOCD</td>
</tr>
<tr>
<td>CD-ROM</td>
<td>CD-ROM</td>
</tr>
<tr>
<td>Computer cassettes</td>
<td>COMPC</td>
</tr>
<tr>
<td>Computer disks</td>
<td>DISK</td>
</tr>
<tr>
<td>Games</td>
<td>GAME</td>
</tr>
<tr>
<td>Globes</td>
<td>GLOBE</td>
</tr>
<tr>
<td>Internet documents</td>
<td>INTERNET</td>
</tr>
<tr>
<td>Kits</td>
<td>Kit</td>
</tr>
<tr>
<td>Microfiche</td>
<td>FICHE</td>
</tr>
<tr>
<td>Microfilm</td>
<td>MFILM</td>
</tr>
<tr>
<td>Videocassettes</td>
<td>VIDEOC</td>
</tr>
<tr>
<td>Video CD-ROM</td>
<td>CD-ROM</td>
</tr>
</tbody>
</table>

Regional Library Call Numbers

The USGS Library has branches in Denver, CO, Menlo Park, CA and Flagstaff, AZ. These libraries will sometimes have additional notations as part of the classification number.

Denver Library

Call numbers for publications preceded by an uppercase "L" indicate that they are locked in a case.

Special collections use "FR" for field records and "PH" for photograph collection. These designations precede the call number.
Shelf List Tables

The U.S. Geological Survey Library uses the Library of Congress shelf list tables to construct shelf list numbers. The tables are designed in a simple format, which is basically self-explanatory. A few points may need clarification.

The USGS Reston Library generally uses three digit shelf list numbers. The regional libraries may use 4 digits.

The shelf list number begins with an upper case letter representing the main entry.

(1) Using the surname “Smith”, the shelf list number will begin with the letter “S”.

(2) Select the first number from table 1, 2, 3, or 4 depending on the uppercase letter.

Use table:

1 if the upper case letter is a vowel.
2 if the upper case letter is a “S”.
3 if the upper case letter is a “Q”.
4 if the upper case letter is a consonant.

Since the name begins with “S”, use table 2. The first number is established from the second letter of “Smith”, i.e., “m”; go to table 2, find “m” , and find 6 below it.

The shelf list number will begin:

S6

(2) Use table 5 to complete the shelf list number by establishing the final two numbers. These digits will be constructed from the 3rd and 4th letters in Smith:

3rd letter is i shelf list no. is 4
4th letter is t shelf list no. is 7 Completed shelf list number is: S647

Library of Congress Shelf List Tables

Table 1: initial letters are vowels:

<table>
<thead>
<tr>
<th>Letter</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>b</td>
<td>d</td>
<td>l</td>
<td>m</td>
<td>n</td>
<td>p</td>
<td>r</td>
<td>s</td>
<td>t</td>
<td>u</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 2: initial letter is S:

<table>
<thead>
<tr>
<th>Letter</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>c</td>
<td>h</td>
<td>i</td>
<td>m</td>
<td>p</td>
<td>t</td>
<td>u</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 3: initial letters are Qu begin with the 3rd letter:

<table>
<thead>
<tr>
<th>Letter</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>e</td>
<td>i</td>
<td>o</td>
<td>r</td>
<td>u</td>
<td>y</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For names beginning with Qa-Qt use 2-29
Table 4: initial letters are consonants:
\begin{tabular}{ccccccc}
 a & e & i & o & r & u & y \\
 3 & 4 & 5 & 6 & 7 & 8 & 9 \\
\end{tabular}

Table 5: final numbers:
\begin{tabular}{cccccccc}
 a-d & e-h & i-l & m & n-q & r-t & u-w & x-z \\
 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 \\
\end{tabular}

United States Shelf List Tables

Use the following shelf list table for classifying publications by United States Government agencies when classifying in the subject schedule and the main entry is the government agency. A-Z below represents the first letter of the first work of the agency name following “United States.”

\begin{itemize}
  \item A-B use U3
  \item C use U31
  \item D-F use U32
  \item G-J use U33
  \item K-M use U34
  \item N-O use U35
  \item P-R use U36
  \item S-U use U37
  \item V-Z use U38
\end{itemize}

For entries beginning with United Nations use: U22

Acknowledgments

Special mention must be given to Irena Kavalek for editing the “Introduction” and “Classification tables” and to Annabelle Trettin for editing the “Index.” I wish to thank the U.S. Geological Survey Library Cataloging Staff for their contributions as library consultants, including Dean Rogers and Margaret Zieman. I also wish to thank the several USGS scientists for reviewing the subject content of the classification scheme in their area of expertise: Daniel J. Milton, Harry Lotus, and others.
SECTION 1 -- GENERAL WORKS
(Add geographic numbers as needed)

001 Government publications not classified elsewhere
002 Exposition publications not classified elsewhere
005 Education: schools and colleges
008 Photographs
009 Miscellany
   (Sketches, clippings, old records)
010 Periodicals: In general these are now classified in G(XXX), S(XXX), P(XXX) except for bibliographical works, those issued by international bodies or those which are international in scope or very narrow in subject area. These exceptions are classified by subject in 001-999.
020 Societies, universities, and observatories
025 Museums
030 Science
   (General works, including philosophy, history of science, and science and technology; for science education see 065.5)
   030.3 Science and society
      (Includes government role in science)
   030.5 Scientific labor force
      (Includes analyses of labor force, educational and research opportunities)
031 Scientific congresses.
   (For congresses on a specific topic, see specific subject numbers)
032 Scientific institutions
   (Publications about these institutions)
035 Scientific instruments and microscopy
   035.1 Congresses on instrumentation
035.4-
039.8 Computer science
   035.4 Congresses, meetings, and so forth
   035.5 General works
      (Includes data processing and computer software)
   035.6 Encyclopedias
   035.7 History
   035.8 Symbols and abbreviations
   035.9 Miscellany, essays, and collections
036 Computers
   (General works)
   036.1 Analog
   036.2 Digital
   036.23 Microcomputers (PC's)
   036.24 Minicomputers
   036.25 Mainframes
   036.3 Training manuals, techniques, user guides
   036.31 Desktop publishing
   036.32 Electronic publishing
   036.4 Computer problems, exercises, and so forth
   036.5 Digital image systems and processing
   036.6 Computer graphics
   036.7 Computer security
036.8  Computer law and legislation
036.9  Computer language and programming

037  Computer simulation, mathematical models, and special subjects.

For works on a special subject add a subject number to "037"
according to the following procedures. Precede each subject number with a period.
Numbers ending in "03" are abbreviated to one digit, for example, 203, 403, 503,
and so forth become "2", "4", and "5", that is, 037.2, 037.4, and 037.5.
Numbers ending in zero are abbreviated as two digits: 530 becomes "53" or 037.53.
Petroleum, 150.3, is abbreviated as "15" or 037.15; all other numbers constructed
with decimal points retain the decimal; for example, petroleum engineering, 467.4,
becomes 037.467.4. Use the following as examples for constructing additional
numbers:

037.1  Mineralogy
037.15 Petrology
037.2  Geology
037.4  Mineral resources
037.5  Geomorphology and geography
037.58 Natural resources
037.78 Hydrology
037.81 Physics
037.85 Chemistry

038 Computer engineering, computer hardware, and internet
038.1 Congresses, meetings, and so forth
038.2 Microprocessors
038.3 Input-output equipment
038.4 Computer communications networks
038.5 Special computer components
038.6 Optical disk systems, CD-ROM, and so forth

039 System analysis and design
(Computer applications)
039.1 Congresses
039.2 Database analysis and design
039.3 Database management
039.4 Database processing
039.5 Database modeling
   (CODASYL, DBTG, DDL, DML)
039.6 Database systems
   (ADABAS, SYSTEM 2000, IDMS, IMS, MAGNUM)
039.7 Artificial intelligence, expert systems
039.8 Pattern recognition

040 Information storage and retrieval systems, information services, science
information and processing systems, and punched card systems

For works on a special topic add a subject number to 040 according to the
procedures set down in the class number 037.
Use the following numbers as examples for constructing additional numbers:

040.1 Mineralogy
040.15 Petrology
040.2 Geology
040.4 Mineral resources
040.5 Geomorphology and geography
040.58 Natural resources
040.78 Hydrology
040.81 Physics
040.85 Chemistry
040.919.53 Marine ecology

041 National bibliography
(Add a geographic number to designate the appropriate country)

EXAMPLE:
041(540) Bibliography of French publications

042 Subject bibliography

For bibliographies on specific topics, add subject numbers according to the procedures given at the class number 037.

Use the following numbers as examples for constructing additional numbers:
042.010 Periodicals
042.030 Science
042.2 Geology
042.203.3 Engineering geology
042.295 Geophysics
042.5 Geomorphology and geography
042.53 Oceanography
042.759 Cartography
042.85 Chemistry
042.919 Ecology

043 Bibliographies of the works of individual authors
043.1 United States
043.2 British Commonwealth
043.3 German
043.33 Austrian
043.35 Swiss
043.37 Dutch
043.4 French
043.5 Italian
043.59 Romanian
043.6 Spanish
043.69 Portuguese
043.7 Russian and other Slavic nationalities
043.8 Scandinavian
043.81 Norwegian
043.82 Danish
043.83 Swedish
043.9 Other

044 Indexes to serials and lists of publications of societies
(Indexes of particular serials are generally classed with the series that they index)

045 Library science
045.1 Periodicals
045.2 Society publications
045.3 Library schools
045.4 Acquisition of books
045.5 Classification and shelving
045.6 Cataloging
   (Includes lists of descriptors)
045.7 Binding
   (Includes restoration and conservation)
045.8 Map librarianship
045.9 Reference librarianship

046 Libraries
046.1 Reports
046.3 Catalogs
046.5 Other publications
046.7 Library automation
046.8 Electronic libraries

047 Archives and archive collections
048 Catalog of research grants, projects, and so forth
050 General dictionaries

Shelf list numbers will include the following elements:
1. A capital letter with a one digit number representing the language.
   (see list of language codes given below)
2. A capital letter with a two digit number for the main entry and constructed from L.C.
   shelf list tables given in the introduction.

EXAMPLE:
Citation from title page:
Random House dictionary of the English language
Editor: Jess Stein
Call number:

050
   E5R36

3. Complete the shelf list number with a title mark when the main entry is under the author.
   Use the following language codes in shelf list numbers when classifying dictionaries. Use
   with classification numbers 050, 051, and 051.1. Follow the instructions for shelf list
   numbers given in 050.

A8    Armenian
A8    Africaans
A12   Aleut
A113  Albanian
Ar12  Arabic
B4    Belarussian (White Russian)
B8    Bulgarian
C28   Catalan
C35   Chamorro
C4    Chinese
C42   Chinook
C88   Croatian
C99   Czech
D2    Danish
D9    Dutch
<table>
<thead>
<tr>
<th>Code</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>E5</td>
<td>English</td>
</tr>
<tr>
<td>Es8</td>
<td>Estonian</td>
</tr>
<tr>
<td>F4</td>
<td>Finnish</td>
</tr>
<tr>
<td>F8</td>
<td>French</td>
</tr>
<tr>
<td>G3</td>
<td>German</td>
</tr>
<tr>
<td>G8</td>
<td>Greek</td>
</tr>
<tr>
<td>H3</td>
<td>Hawaiian</td>
</tr>
<tr>
<td>H4</td>
<td>Hebrew</td>
</tr>
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<td>H5</td>
<td>Hindi</td>
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<tr>
<td>H8</td>
<td>Hungarian</td>
</tr>
<tr>
<td>Ic2</td>
<td>Icelandic</td>
</tr>
<tr>
<td>In2</td>
<td>Indonesian</td>
</tr>
<tr>
<td>In3</td>
<td>American Indian</td>
</tr>
<tr>
<td>Ir4</td>
<td>Irish</td>
</tr>
<tr>
<td>It2</td>
<td>Italian</td>
</tr>
<tr>
<td>J2</td>
<td>Japanese</td>
</tr>
<tr>
<td>K8</td>
<td>Korean</td>
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<td>K87</td>
<td>Kusaie</td>
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<tr>
<td>L3</td>
<td>Latin</td>
</tr>
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<td>L4</td>
<td>Latvian</td>
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<td>L7</td>
<td>Lithuanian</td>
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<td>M2</td>
<td>Malay</td>
</tr>
<tr>
<td>M3</td>
<td>Marshall language</td>
</tr>
<tr>
<td>M7</td>
<td>Mongolian</td>
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<tr>
<td>M9</td>
<td>Muskokee</td>
</tr>
<tr>
<td>N8</td>
<td>Norwegian</td>
</tr>
<tr>
<td>P3</td>
<td>Palasuan</td>
</tr>
<tr>
<td>P36</td>
<td>Papago</td>
</tr>
<tr>
<td>P7</td>
<td>Polish</td>
</tr>
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<td>P75</td>
<td>Ponape</td>
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<tr>
<td>P8</td>
<td>Portuguese</td>
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<tr>
<td>R8</td>
<td>Romanian</td>
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<td>R9</td>
<td>Russian</td>
</tr>
<tr>
<td>Se6</td>
<td>Serbian</td>
</tr>
<tr>
<td>Si11</td>
<td>Thai (Siamese)</td>
</tr>
<tr>
<td>S14</td>
<td>Slovak</td>
</tr>
<tr>
<td>S15</td>
<td>Slovenian</td>
</tr>
<tr>
<td>Sp6</td>
<td>Spanish</td>
</tr>
<tr>
<td>Sw3</td>
<td>Swahili</td>
</tr>
<tr>
<td>Sw4</td>
<td>Swedish</td>
</tr>
<tr>
<td>T6</td>
<td>Tohono O'Odham</td>
</tr>
<tr>
<td>T84</td>
<td>Turkish</td>
</tr>
<tr>
<td>Uk7</td>
<td>Ukrainian</td>
</tr>
<tr>
<td>V6</td>
<td>Vietnamese</td>
</tr>
<tr>
<td>Y3</td>
<td>Yapese</td>
</tr>
</tbody>
</table>

**051** Bilingual and polyglot dictionaries
(Construct shelf list numbers as instructed in 050 above)

**051.1** Technical dictionaries

For technical dictionaries on a specific subject, add a subject number to "051.1" according to the procedures given at class number 037. To add a language to the shelf list number,
use the list of language codes and instructions given at 050 above.

Use the following numbers as examples for constructing additional numbers:

- **051.1** Technical dictionaries
- **051.1.2** Geology
- **051.203.2** Engineering geology
- **051.1.467.4** Petroleum engineering
- **051.1.536** Marine sediments

- **051.2** Dictionaries of abbreviations and acronyms

- **052** General encyclopedias

- **053** Grammars, language manuals, rhetoric
  - (Construct shelf list numbers by language as in 050)
  - **053.2** Technical writing, style manuals, and so forth

- **054** Logic

- **055** Statistical yearbooks, almanacs

- **056** Membership directories
  - For membership directories on a specific subject, add a subject number to "056" according to the procedures given at classification number 037.

- **057** Directories of organizations and institutions
  - For organizational directories on a special topic, add a subject number to "057" according to the procedures set up at classification number 037.

- **059** Law
  - (Includes copyright law)

- **060** Nomenclature and classification
  - (Not used after 1971; see also nomenclature and classification under specific topics: mineralogy: 106; petrology: 150.6; geology: 206; historical geology: 306; mineral industries: 406; paleontology: 606; physics: 806; chemistry: 850.6; biology: 906)

- **065** Sociology and economics
  - **065.1** Business administration and management
    - **065.11** Accounting
    - **065.13** Organizational management
      - Includes mgt. styles, tools, TQM, teamwork, empowerment, etc.
    - **065.15** Leadership
      - (Includes organizational mission)
    - **065.16** Communication
      - (Includes presentations, resumes, meetings, proposal writing, exhibits, etc.)
    - **065.17** Women in management
    - **065.19** Personnel management
      - (Includes recruitment, performance evaluations, EEO, diversity, sexual harassment, etc.)

  - **065.2** Labor force and employment
    - **065.21** Working conditions
      - (Including wages, flexible hours, environmental conditions, etc.)
    - **065.23** Career development
      - (Includes professional/vocational guidance, mentoring, career ladders, etc.)
    - **065.25** Women in the workplace
      - (Includes child care)
    - **065.27** Labor relations
      - (Includes labor disputes)

- **065.3** City and regional planning

- **065.4** Health
065.41 Disabilities in the workplace
065.43 Stress/fatigue in the workplace

065.5 Education
    (Includes science education)
065.51 Continuing education
    (Includes vocational education)

065.6 Welfare

067 Statistics, graphics
    (General works; for statistics on a specific topic, see subject numbers; for theory, see 719 or 718, mathematical statistics)

070 History
    (Includes ethics and psychology)

080 Collected biographies
    (For collected biographies with a region, country, state or province, add a geographic number)

081-089 Individual biographies
    (Do not use geographic numbers; construct shelf list numbers from last name of the person who is the subject of the biography; construct the title mark, or work mark, from last name of author)

EXAMPLE:
Title:
Hugh Miller: the Cromarty Stonemason, by Charles D. Waterston
Call number:
081
M615w
(Add date)

081 United States
082 English and Australian
082.1 Canadian
083 German
084 French
085 Italian
086 Spanish and Portuguese
087 Russian and Slavic
088 Scandinavian
089 Other

090 Essays, collections, miscellany not classified elsewhere
095 Miscellaneous manuscript materials and collections
## SECTION 2 -- MINERALOGY AND PETROLOGY
(Add geographic numbers for regions as needed)

**Mineralogy**

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Congresses (1972+ ) (see 401 for mining congresses)</td>
</tr>
<tr>
<td>103</td>
<td>Textbooks and general treatises</td>
</tr>
<tr>
<td>104</td>
<td>Elementary and older textbooks; popular mineralogy, rockhounding</td>
</tr>
<tr>
<td>105</td>
<td>Catalogs and tables</td>
</tr>
<tr>
<td>106</td>
<td>Nomenclature and classification</td>
</tr>
<tr>
<td>107</td>
<td>History</td>
</tr>
<tr>
<td>108</td>
<td>Technique</td>
</tr>
<tr>
<td>109</td>
<td>Essays, collections and miscellany</td>
</tr>
<tr>
<td>110</td>
<td>Crystallography and optical mineralogy</td>
</tr>
<tr>
<td>111</td>
<td>Mathematical crystallography</td>
</tr>
<tr>
<td>112</td>
<td>Crystallization (crystal growth, solidification of crystals, crystal lattices)</td>
</tr>
<tr>
<td>113</td>
<td>Physical properties of crystals</td>
</tr>
<tr>
<td>115</td>
<td>Determinative mineralogy</td>
</tr>
<tr>
<td>116</td>
<td>Laboratory manuals and tables</td>
</tr>
<tr>
<td>117</td>
<td>Special topics (Includes color, fluorescence, microprobe analysis, optics, specific gravity, thin sections)</td>
</tr>
<tr>
<td>118</td>
<td>Chemical analysis (not used after 1971, see 880-888)</td>
</tr>
<tr>
<td>119</td>
<td>Chemical mineralogy</td>
</tr>
<tr>
<td>120</td>
<td>Descriptive mineralogy (general)</td>
</tr>
<tr>
<td>122</td>
<td>Sulfides, selenides, tellurides, arsenides, antimonides</td>
</tr>
<tr>
<td>123</td>
<td>Sulfo-salts (sulfarsenites, sulfantimonites, sulfobismuthites)</td>
</tr>
<tr>
<td>124</td>
<td>Haloids (chlorides, bromides, iodides, fluorides)</td>
</tr>
<tr>
<td>125</td>
<td>Oxides</td>
</tr>
<tr>
<td>126</td>
<td>Oxygen salts</td>
</tr>
<tr>
<td>126.1</td>
<td>Carbonates</td>
</tr>
<tr>
<td>126.2</td>
<td>Silicates, titanates, zeolites, and clay minerals</td>
</tr>
<tr>
<td>126.3</td>
<td>Niobates, tantalates</td>
</tr>
<tr>
<td>126.4</td>
<td>Phosphates, arsenates, vanadates, antimonates, nitrates</td>
</tr>
<tr>
<td>126.5</td>
<td>Borates, urenates</td>
</tr>
<tr>
<td>126.6</td>
<td>Sulfates, chromates, tellurates</td>
</tr>
<tr>
<td>126.7</td>
<td>Tungstates, molybdates</td>
</tr>
<tr>
<td>127</td>
<td>Salts of organic acids; oxalates, mellates, and so forth</td>
</tr>
<tr>
<td>128</td>
<td>Hydrocarbon compounds</td>
</tr>
<tr>
<td>130</td>
<td>Meteorites (For meteors see 734.6)</td>
</tr>
<tr>
<td>135</td>
<td>Pseudomorphs (Minerals whose outward crystal form is that of another mineral species); paramorph (a pseudomorph with the same composition as the original crystal); paramorphism (property of a mineral to change its internal structure without changing its external form or chemical composition)</td>
</tr>
<tr>
<td>140</td>
<td>Experimental investigations (Shock and blast experiments in mineralogy and so forth)</td>
</tr>
</tbody>
</table>
Petrology
(Origin, occurrence, and structure of rocks)

150.3 Textbooks, treatises, general works
150.4 Elementary textbooks
150.5 Catalogs and tables
150.6 Nomenclature and classification
150.7 History
150.8 Petrological technique
150.9 Essays and collections

153 Physical properties of rocks
155 Rock analysis
160 Determination of minerals in rocks
165 Structural petrology
(Study of rock structure of thin-sections or micro scale including microtectonics and petrofabric analysis; for rock structure on a moderate to small scale, see structural geology at 260; for rock structure on the broad scale, see tectonics at 210)

170 Igneous and volcanic rocks
(Includes basalt, kimberlite, ophiolites, periodite, and ultrabasic rocks; for magmas or magmatism, see 281)

180 Sedimentary and carbonate rocks
(Includes concretions)

180.3 Paleopedology
(Study of soils of past geologic ages and their age determination)

185 Crystalline rocks
190 Metamorphic and metasomatic rocks
(Includes metasomatite and skarn; for metamorphism and metasomatism, see 283)
SECTION 3 -- GENERAL, STRUCTURAL, AND DYNAMIC GEOLOGY
(Add geographic numbers for regions as needed)

201 Geological congresses
(Includes historical and stratigraphic geology congresses)

202 Collections of writings by individual geologists

203 Geological textbooks and general treatises
   203.050 Submarine geology
   (Represents geology of oceans and seas in general and geology of continental shelves and margins; for the geology of specific oceans and seas, use the appropriate geographic number from Section 11)

203.2 Earth sciences (multidisciplinary works)

203.3 Engineering geology

203.4 Effects of underground explosions

203.5 Military geology

203.6 Environmental and urban geology

203.7 Nuclear geology
   (Includes radio geology and isotope geology)

204 Elementary textbooks, older works, and popular geology

205 Catalogs and encyclopedias

206 Nomenclature and classification

207 History of geology
   (For the history of mineral industries, economic geology, and mines and mining, see 407)

208 Geological technique
   (Includes field and laboratory applications)
   208.2 Mathematical geology, statistic in geology, and geostatistics

209 Miscellany, essays, collections, and special topics
   209.1 Geological guidebooks (monographic)

210 Dynamic and physical geology
   (Includes works on geodynamics; neotectonics--study of active earth movements, including uplift and tilt; tectonics--study of rock structure on a broad scale; for works on rock structure on a moderate to small scale, see structural geology at 260; for works on rock structure on a thin-section or micro scale, see structural petrology at 165)

211 Atmospheric agencies, weathering
   (Includes eolian drift)

212 Extraterrestrial forces

213 Erosion
   (Includes works on sediments, sedimentation and deposition, sediment transport, diagenesis, detritus, and drift; for works on glacial drift, see 250; for works on shoreline building or destruction through sediment transport, see 521)

214 Underground water action

216 Organic agencies

218 Thermal or igneous agencies
   (Includes hydrothermal deposits and earth temperature; for geothermal resources, see 230)

219 Experimental investigations on geology and subtopics

220 Volcanoes, calderas, volcanic eruptions, and volcanism
   (Includes volcanic products: lava, pumice, lahars)

225 Extinct volcanoes
229 Maars
(Low-relief, broad volcanic crater formed by multiple shallow explosive eruptions, surrounded by a crater ring)

230 Geothermal resources
(Includes geysers, hot springs, and so forth)

240 Earthquakes, seismology
(Includes “man made” earthquakes, seismic waves, ground shaking and earthquake hazard analysis; for seismic wave application to earth structure, seismic profiling see 295.2)
240.1 Conferences
240.2 Earthquake engineering and effects of earthquakes on construction
240.3 Geomorphological effects of earthquakes
(Includes earthquake effects on slope stability)
240.4 Earthquake prediction
240.5 Induced seismicity
240.6 Soil liquefaction
240.8 Seismometry
(Instrumental aspects of seismology)
240.9 Paleoseismology

245 Landslides, avalanches, debris flows, mudslides, and rockslides

248 Local land subsidences, sinkholes

249 Natural disasters
(Includes geological hazards and disaster relief; for specific geologic hazards and associated disasters, see the specific types: earthquakes: 240; landslides: 245; subsidences: 248; hurricanes and typhoons: 515; tsunamis: 533; tornados: 515; floods: 552)
249.1 Congresses
249.2 Natural disasters’ effects on construction

250 Glaciology and glaciers
(Includes glacial drift)
251 Drumlins
(Ridges of compact glacial till built and shaped under the margin of ice)
252 Eskers
(Ridges of stratified sand and gravel deposited by subglacial streams)
253 Moraines
(Mounds or ridges of unstratified glacial drift deposited by a glacier)
254 Erosion of glaciers
255 Glacial lakes (extinct)
256 Ice and snow, periglacial phenomena
256.1 Permafrost
256.2 Frozen ground
(Includes cold regions engineering and construction conditions)

260 Structural geology
(The study of rock structure on a moderate to small scale including form, arrangement, description, representation and analysis; includes bedrock and surficial geology; for rock structure on a broad scale, see tectonics at 210; for rock structure on a thin-section or micro scale, see structural petrology at 165)

267 Lithosphere

270 Deformations
(Includes deformation mechanics; rheology (the study of the deformation and flow of matter); joints (fractures or parting in rocks without displacement); grabens (elongated, depressed crustal blocks, bounded by faults on their long sides).
276 Faults and folding  
   (Includes rifts)

280 Intrusions  
   (Includes laccoliths (igneous intrusions), domes (large magmatic or migmatic intrusions having convex surface and sides sloping away in low angles), necks (pipelike intrusion), stocks (igneous intrusions less than 40 sq. miles in surface exposure))

281 Magmas (magmatism)  
   (For igneous or magmatic rocks, see 170)

283 Metamorphism, igneous metamorphism, and metasomatism  
   (For metamorphic and metasomatic rocks, see 190)

291 Oscillation  
   (Includes earth movement and earth tilting)

293 Orogeny (mountain making), epeirogeny (a form of diastrophism that has produced the larger features of the continents and oceans)

295 Geophysics  
   (For geophysical prospecting see 426)

295.2 Geophysical, seismic profiling, and seismic wave application to earth structure

295.3 Cosmic physics, Earth tides, space plasma, and so forth

295.5 Nuclear geophysics

296 Geomagnetism (terrestrial magnetism), aeromagnetism, and magnetic surveys  
   (prior to 1972 classed in 746; see 314 for paleomagnetism)

297 Isostasy  
   (Condition of equilibrium in the Earth's crust and mantle)

297.5 Gravity investigations  
   (Includes gravity anomalies; prior to 1972, see 748)

298 Geochemistry

298.1 Conferences

298.2 Inorganic geochemistry

298.3 Biogeochemistry (organic geochemistry), biomineralization, and humus

298.4 Fluid inclusions
SECTION 4 -- HISTORICAL GEOLOGY
(Add geographic numbers for regions as needed)

302 Collections (sets)
303 Historical geology textbooks and general treatises
305 Stratigraphic tables
306 Nomenclature and classification
308 Geologic maps and atlases
(For books on map making, see 759)
308.4 List of geological maps
(Includes index maps and map bibliography)
309 Essays and collections
310 Earth origin (geogenesis)
311 Continental drift
(Includes plate tectonics, sea-floor spreading, and subduction zones)
311.1 Conferences
312 Earth crust, Earth mantle
313 Earth (internal structure)
314 Paleogeophysics
(Includes paleomagnetism)
315 Geologic time
(Includes geochronology, stratigraphic correlation, age determination, potassium-argon
dating, radiocarbon dating, tree-ring dating, and so forth)
319 Stratigraphy, stratigraphic time periods
(Includes works on the study of stratified rocks and their geologic time period; for
stratigraphic tables see 305)
320 Precambrian
320.1 Archean
320.2 Proterozoic
330 Paleozoic
332 Cambrian
333 Ordovician
334 Silurian
335 Devonian
336 Carboniferous
(Includes Pennsylvanian and Mississippian)
337 Permian
340 Mesozoic
341 Triassic
342 Jurassic
343 Cretaceous
350 Cenozoic
351 Tertiary
352 Quaternary
353 Pleistocene
(Includes glacial epochs)
354 Holocene (Recent)
360 Paleogeography
(Works on the study of the physical geography of the geologic past)
361 Precambrian
361.1 Archean
361.2 Proterozoic

362 Paleozoic
362.1 Cambrian
362.2 Ordovician
362.3 Silurian
362.4 Devonian
362.5 Carboniferous
362.6 Permian

363 Mesozoic
363.1 Triassic
363.2 Jurassic
363.3 Cretaceous

364 Cenozoic
364.1 Tertiary
364.2 Quaternary
364.3 Pleistocene
364.4 Holocene (Recent)

365 Prehistoric continents: Pangea, Laurasia, and Gondwana

366 Prehistoric oceans: Iapetus, Panthalassa, and Tethys

370 Paleoclimatology
371 Paleohydrology
SECTION 5 -- MINERAL RESOURCES, MINERAL INDUSTRIES, AND ECONOMIC GEOLOGY
(Add geographic numbers for regions as needed)

401 Congresses
402 Mineral resources agencies and mining bureaus of countries, states, and provinces
   (Includes map texts by bureaus of mines and mineral resources not classified elsewhere)
   EXAMPLES:
   402(100) Canada. Mineral Resources Division
   402(274) Arizona Dept. of Mineral Resources
   402(120) Nova Scotia Dept. of Mines

403 Mineral resources and mineral industries
   (textbooks and general works)
   403.1 Mineral technology
   (Includes economic aspects of mineral technology)

404 Economic aspects of mineral resources and mineral industries including economic geology

405 Encyclopedias and catalogs (for mineral locations)

406 Nomenclature and classification

407 History
   (Includes mining history)

408 General mineral and metal statistics

409 Essays, collections, and special topics

410 Ore deposits
   (Includes metal deposits; metallogeny, origin and formation of ores; all other aspects of ore deposits including geochemical and thermodynamic aspects)
   411 Lodes, veins, dikes
   412 Rock-forming minerals
   413 Trace elements (minor and accessory elements)
   414 Placer deposits
   415 Economic aspects of metal deposits
      (Includes analyses for economic use)
   416 Microscopic determination

420 Mines and mining
   421 Mining law and legislation
   422 Economic aspects of mines and mining
      (Includes mine prospectuses and reports)
      422.5 Mining company and corporate annual reports
   424 Mine surveying
   425 Mining methods and working
      (Includes mining engineering, mine safety, strip mining, longwall mining, and rock bursts)
      425.2 Mining subsidences

426 Prospecting
   (Geophysical methods in general including water and well logging; for oil well logging, see 467.4)
   426.2 Geochemical prospection
   426.3 Seismic prospection
   426.4 Other specific prospecting methods
      (Includes electric, nuclear (radioactive), gravity, magnetotelluric, torsion balance methods, and so forth)
427 Hydraulic mining
428 Taxation and so forth
429 Metallurgy
   (Includes flotation, leaching, magnetic separation, and ore dressing)
   429.1 Gold (gold and silver)
   429.2 Silver (silver and lead)
   429.3 Iron and steel
   429.4 Copper
   429.5 Lead, zinc
   429.7 Other metals
   429.8 Assaying and ore analysis methods
   429.9 Machinery
430 Metals in natural state
   431 Gold (aurum; Au), silver (argentum; Ag)
   432 Mercury (quicksilver, hydrargyrum; Hg)
   433 Iron (ferrum; Fe; includes magnetite), manganese (Mg)
   434 Copper (cuprum; Cu), tin (stannum; Sn)
   435 Lead (plumbum; Pb), zinc (Zn)
   436 Nickel (Ni), cobalt (Co)
   437 Antimony (stibium; Sb)
   438 Aluminum (Al)
   439 Other metals
      Bismuth (Bi)
      Cadmium (Cd)
      Chromium (Cr)
      Gallium (Ga)
      Germanium (Ge)
      Hafnium (Hf)
      Indium (In)
      Molybdenum (Mo)
      Niobium (Nb; columbium)
      Rhenium (Re)
      Scandium (Sc)
      Tantalum (Ta)
      Technetium (Tc)
      Thallium (Tl)
      Titanium (Ti)
      Tungsten (wolfram; W)
      Vanadium (V)
      Yttrium (Y)
      Zirconium (Zr)
   439.1 Platinum metals
      Iridium (Ir)
      Osmium (Os)
      Palladium (Pd)
      Platinum (Pt)
      Rhenium (Re)
      Rhodium (Rh)
      Ruthenium (Ru)
   439.2 Alkali earth metals
      Barium (Ba)
Beryllium (Be)
Calcium (Ca)
Magnesium (Mg)
Radium (Ra)
Strontium (Sr)

439.21 Alkali metals
Cesium (caesium; Ca)
Francium (Fr)
Lithium (Li)
Potassium (kalium; K)
Rubidium (Rb)
Sodium (Na)

439.3 Lanthanide series (rare earth metals)
Cerium (Ce)
Dysprosium (Dy)
Erbium (Er)
Europium (Eu)
Gadolinium (Gd)
Holmium (Ho)
Lanthanum (La)
Lutetium (Lu)
Praseodymium (Pr)
Promethium (Pm)
Samarium (Sm)
Terbium (Tb)
Thulium (Tm)
Ytterbium (Yb)

439.4 Actinide series
Actinium (Ac)
Americium (Am)
Berkelium (Bk)
Californium (Cf)
Curium (Cm)
Einsteinium (Es)
Fermium (Fm)
Lawrencium (Lr)
Mendelevium (Md)
Neptunium (Np)
Nobelium (No)
Plutonium (Pu)
Protactinium (Pa)
Thorium (Th)
Uranium (U)

439.5 Nonmetallic elements
Arsenic (As)
Boron (B)
Hydrogen (H)
Nitrogen (N)
Oxygen (O)
Phosphorus (P)
Selenium (Se)
Silicon (Si)
Tellurium (Te)

439.6 Halogens
Astatine (At)
Bromine (Br)
Chlorine (Cl)
Fluorine (F)
Iodine (I)

439.7 Inert gases
Argon (Ar)
Helium (He)
Krypton (Kr)
Neon (Ne)
Radon (Rn)
Xenon (Xe)

440 Nonmetallic minerals (industrial minerals 440-459.91)
441 Clay
(Includes clay minerals, attapulgite, bauxite, bentonite, kaolin, laterite, refractory materials, illite, smectite, and ceramic materials (potter's clay, potter's earth, pot clay, pot earth))

441.1 Clay products
(Includes ceramics, pottery, earthenware (clayware), stoneware, porcelain, brick, and tile)

442 Cement and concrete

443 Fertilizers
Apatite
Monazite
Potash
Phosphates
Nitrates

444 Salt
Gypsum
Alum
Alunite (alumite)
Alum stone

445 Sulphur (sulfur), pyrite

446 Asbestos
446.1 Amphiboles
Actinolite
Amosite
Anthophyllite
Crocidilite
Tremolite

446.2 Serpentinite
Antigorite
Chrysotile
Olivine

446.3 Mica
(micaceous minerals)
Biotite
Lepidolite
Margarite
Muscovite
Paragonite
Phlogopite
Roscoelite
Vermiculite
Zinnwaldite

447 Abrasive materials
Corundum
Emery
Garnet
Pumice
Volcanic ash

448 Mineral paints
(Includes pigments, ocher for example)
448.1 Barites

451 Talc
452 Fluorite (fluorspar)
453 Silicates
(For mineralogical aspects, see 126.2)
Conglomerates
Feldspar
Fuller's earth
Glass
Kyanite (cyanite)
Quartz
Sand (For aggregate aspects see 479)
Zeolites

454 Carbonates
(For mineralogical aspects, see 126.1; for petrological aspects, see 180)
Lime
Chalk
Marl
Limestone
Dolomite

459 Siliceous earth
Diatomite (tripolite)
(Includes diatomaceous earth, radiolarian earth, tripoli)

459.9 Other nonmetallic minerals
459.91 Economic aspects of nonmetals

460 Carbon and its compounds
(Includes hydrocarbons and methane)
461 Coal
(For coal mine waste, see 799.5)
461.1 Coal congresses
461.3 Environmental aspects of coal production
(For example, coal desulfurization; for environmental aspects of resource development, see 585.3)
461.4 Coal technology
(Includes liquefaction and gasification)
462 Anthracite
463  Bituminous
   463.5  Lignite, leonardite
464  Peat
   464.1  Caustoliths
      (Combustible rocks usually of organic origin (for example, coal or peat); inorganic deposits also occur (for example, sulfur, asphalt, graphite))
      Caustobioliths
      Caustophytoliths
      Caustozooliths
465  Asphalt
466  Graphite
467  Petroleum
      (Includes oil deposits, natural gas, oil shales, oil fuel; and also includes economic aspects of petroleum)
   467.1  Congresses
   467.3  Petroleum chemistry
   467.4  Petroleum technology
      (Includes petroleum engineering, oil well logging, mudlogging, petroleum geology, and reservoir engineering)
   467.5  Petroleum law and legislation
   467.7  Petroleum industry
      (Includes petroleum leases, pipelines, petroleum production and distribution, and oil well supervision)
   467.8  Helium
   467.9  Miscellaneous topics on petroleum
468  Manufactured fuels
469  Other compounds, including amber and jet
470  Building and ornamental stones
      (For petrological aspects, see 170-190)
   471  Marble, limestone
   472  Onyx
   473  Sandstone
   474  Granite
   475  Slate
   476  Soapstone
   477  Trap
   478  Other building and ornamental stones
   479  Construction and road materials: aggregate
      (crushed stone, sand and gravel); lightweight aggregate (pumice, volcanic cinders, expanded shale, foam slag, expanded perlite, and expanded vermiculite)
480  Precious stones, gems
   480.5  Gems (artistic aspects)
   481  Diamonds
   482  Sapphires
   483  Rubies
   483.5  Emeralds
   484  Opal, garnet
   485  Agate
   486  Jade
487  Tourmaline
488  Pearls
489  Amethyst, kunzite, and others
490  Underground water, aquifers, groundwater flow, groundwater supply, hydrogeology, geohydrology
     (For hydrology, see 780-799)
491  Springs
492  Artesian wells and water wells in general
493  Mineral waters (before 1972, see 491)
494  Groundwater pollution, contamination
495  Composition, analysis
497  Groundwater quality
SECTION 6 – GEOMORPHOLOGY, PHYSICAL GEOGRAPHY, AND PHYSIOGRAPHY.
(Add geographic numbers as needed)

500 Topographic maps
   500.1 Landsat maps, photo maps, and aerial photo maps
   (The numbers 500 and 500.1 are reserved for map classification)

501 Congresses

502 Exploring expeditions

503 Text books and general treatises on geomorphology and physical geography.

504 Geography, descriptive
   (Includes economic aspects and general geography)

505 Encyclopedias and yearbooks

506 Geographic names
   (Includes gazetteers)

507 History of geography, history of geomorphology
   (For general history, see 070)

508 Atlases and maps
   (Includes all subject maps with the exception of geology; for geological maps see 308; for cartography, see 759. See p. xi for instructions on how to classify maps filed in map cases.)
   508.4 Lists of maps, index maps and map bibliography

509 Essays and collections

510 Meteorology

511 Atmospheric physics
   (Includes atmospheric circulation, atmospheric gases, greenhouse effect, and ocean-atmosphere interaction)

512 Climatology
   (Includes climate change, global warming, heat budget, and temperature problems)

513 Weather modification

514 Air pollution
   (Includes atmospheric pollutants and radon)

515 Winds
   (Includes storms, cyclonic storms, hurricanes, tornados, and typhoons; for tsunami, see 533)

516 Droughts

518 Soil formation, soil origin
   (Includes loess, an unstratified, unconsolidated deposit composed of silt, clay, and sand from the Pleistocene age; for other aspects of soils, see 768, 892, and 941)

520 Continents
   (For works on continental drift, see 311; for works on Earth's crust, see 312; for works on the continental shelf and continental margins, see 523)

521 Shorelines
   (Includes beaches, coastal engineering, coastal zone management, lake earth-water interfaces; shorelines of lakes, reservoirs, and seas; barrier islands)
   521.1 Coastal zone conferences

523 Fjords, submarine relief off coasts, continental shelf, continental margins.

525 Coral reefs and islands

530 Oceanography
   (Oceans)
530.01 Conferences
530.02 Oceanographic instrumentation
530.1 Atlantic Ocean, North and Baltic Seas
530.2 Mediterranean and Black Seas
530.3 Gulf of Mexico and Caribbean Sea
530.4 South Atlantic Ocean
530.5 Pacific Ocean
530.6 Eastern Pacific and American coasts
530.7 Indian Ocean, Bay of Bengal, and Red Sea
530.8 Arctic Ocean
530.9 Antarctic Ocean

531 Ocean currents

532 Tides, tide gages
532.1 Sea level changes

533 Waves, tsunamis

535 Icebergs
(Includes sea ice and so forth)

536 Marine sediments
(Includes ocean bottom, benthos, and deep sea drilling projects; divided geographically as in 530)

537 Marine resources
(Includes ocean mining, ocean mining technologies, deep sea drilling (underwater drilling))
537.1 Conferences
537.2 Law of the Sea
(Includes fishery law and legislation)
537.5 Marine pollution
537.6 Manganese and ferromanganese nodules

538 Marine geophysics

539 Marine structures and engineering
(Includes offshore technology and marine platforms)

540 Landforms
(Includes physiography, a description of the surface features of the Earth)
541 Mountains
542 Plateaus
543 Plains, prairies, and savannas
544 Hills and mounds
545 Valleys
546 Terraces and alluvium
547 Caves, karst, and sinkholes
548 Deserts
549 Dunes

550 Water features
(Includes inland waters (except oceans); for groundwater, see 490; for hydrology, see 780)
551 Springs
(For geothermal resources see 230; for water resources of springs, see 491)
552 Rivers, deltas, watershed systems, stream systems, floods, and flood plains
553 Waterfalls, cataracts, rapids, and whirlpools
554 Lakes, ponds, and playas
(Includes limnology)
555 Drainage
| 556 | Swamps, moors, marshes, and wetlands |
| 557 | Estuaries, tidal basins, and tidal marshes |
| 558 | Bays, lagoons, and sounds |
|     | Local bays and sounds are not assigned a geographic number. They are classified in a subject number and assigned the geographical number of the state, province, or region with which they are associated: |
|     | Cape Cod Bay 558(214) |
|     | Chesapeake Bay 558(220) |
|     | Delaware Bay 558(220) |
|     | Long Island Sound 558(221) |
|     | Pamlico Sound 558(231) |
|     | Puget Sound 558(284) |
|     | San Francisco Bay 558(276) |
| 559 | Glaciers |
|     | (For glaciology, see 250) |
| 580 | Natural resources |
|     | (Includes resource development, energy, and power resources) |
| 580.1 | Energy and power conferences |
| 580.3 | Energy recovery from wastes |
| 582 | Environment |
|     | (Includes environmental law and policy) |
| 582.1 | Conferences |
| 583 | Pollution |
|     | (General pollution; includes occurrence, hazardous materials, acid rain, acid deposition, soil pollution and toxicology; see 494 for groundwater pollution; 795 for surface water pollution; 514 for air pollution) |
| 583.1 | Pollution conferences |
| 585 | Conservation |
|     | (Includes wildlife conservation and management) |
| 585.1 | Conservation conferences |
| 585.3 | Resource conservation |
|     | (Includes environmental impacts and analysis of resource development) |
| 585.4 | Environmental impacts and analysis of human population; demographic studies and environment |
| 585.5 | Land use planning |
|     | (Includes environmental impacts and analysis of land use, urban and rural planning, public land policy, and reclamation of mined lands) |
| 585.7 | Parks, open spaces, wilderness areas, and recreation areas |
|     | (Includes environmental aspects of these areas) |
| 590 | Description and travel |
SECTION 7 -- PALEONTOLOGY
(Add geographic numbers for regions as needed)

601  Congresses
602  Collections
   (Includes periodicals of paleontological societies, institutes, associations, museums of
   natural history, university paleontological departments and laboratories; local government
   departments of paleontology, museums of natural history, and paleontological laboratories)
603  Textbooks and general treatises
603.1  Micropaleontology
604  Elementary textbooks
605  Catalogs
606  Nomenclature and classification
608  Technique
609  Miscellany, essays, and collections
610  Ichnofossil
   (Trace fossils; includes fossil footprints, fossil tracts and so forth)
611  Undetermined material
   (Includes problematica, unidentifiable fossil fragments, conodonts, and so forth)
612  Paleoceneology
612.1  Precambrian
612.2  Paleozoic
612.3  Mesozoic
612.4  Cenozoic
613  Paleobiology
614  Paleozoology
   614.2  Invertebrata
615  Protozoa
616  Rhizopoda
   (Includes amoeba and so forth)
617  Foraminifera
618  Radiolaria
620  Coelenterata
621  Porifera
   (sponges)
625  Anthozoa
   (corals)
626  Hydrozoa
   (Includes hydra, graptolites, stromatoporoids, and so forth)
630  Echinodermata
631  Pelmatozoa
   (Includes crinoids, cystoids, and blastoids)
632  Crinoidea (feather stars) and Cystoidea (cystoids)
633  Blastoidea
634  Asterozoa
   (Includes starfish, brittle and basket stars)
635  Ophiuroidea
   (Includes brittle and basket stars)
636  Asteroidea
   (starfish)
637  Echinozoa
   (Includes sea urchins and sea cucumbers)
638  Echinoidea
(sea urchins)

639  Holothuroidea
(sea cucumbers)

640  Vermes
(Includes Platyhelminthes (flat worms) and Nemathelminthes
(round worms)

645  Annelida
(earth worms)

650  Molluscoidea

651  Bryozoa

652  Brachiopoda

654  Mollusca
(Includes conchology)

655  Bivalvia
(lamellibranchiata or pelecypoda)

656  Scaphopoda

657  Polyplacoph
(amphineura)

658  Gastropoda
(Includes snails, slugs, and so forth)

659  Cephalopoda
(Includes squid, octopus, nautilus, and ammonites)

660  Arthropoda

662  Crustacea
(Includes crabs, lobsters, crayfish, and so forth; also includes ostracoda)

662.3  Trilobites

665  Arachnida
(Includes spiders, scorpions, and so forth)

666  Myriopoda
(Includes centipedes and millipedes)

667  Insecta

670  Vertebrata

671  Pisces
(fish)

673  Amphibia
(Includes frogs, salamanders, newts, and so forth)

675  Reptilia
(Includes dinosaurs, ornithischia, lizards, snakes, and so forth)

677  Aves
(birds)

679  Mammalia

679.9  Man
(Includes Paleolithic period)

680  Stratigraphic paleontology
(Stratigraphic research on specific classes of animals or plants are classed under the number for that plant or animal)

681  Precambrian

681.1  Archean
681.2 Proterozoic
682 Paleozoic
683 Cambrian
684 Ordovician
685 Silurian
686 Devonian
687 Carboniferous
   (Includes Mississippian and Pennsylvanian)
687.5 Permian
688 Mesozoic
688.1 Triassic
688.4 Jurassic
688.7 Cretaceous
689 Cenozoic
689.1 Tertiary
   (Includes Paleogene and Neogene)
689.5 Quaternary
   689.6 Pleistocene
   689.7 Recent (Holocene)

Paleobotany
690.1 Precambrian
690.2 Paleozoic
690.3 Mesozoic
690.4 Cenozoic
695 Catalogs, lists, and so forth
696 Palynology
   (Includes spores and fossil spores)
697 Cryptogams
   (Spore bearing plants: ferns, mosses, algae, and fungi)
   697.1 Thallophytes
      (Includes fungi, algae, diatoms, and so forth)
   697.2 Bryophytes
      (Includes liverworts and mosses)
   697.3 Pteridophytes
      (ferns)
698 Phanerogams
   (seed or flowering plants)
   698.1 Gymnosperms
      (evergreens)
   698.2 Angiosperms
      (flowering plants)
   698.5 Monocotyledons
      (One seed leaf; includes grasses, bamboo, orchids, palms, and so
      forth; formerly endogens)
   698.6 Dicotyledons
      (Two seed leaves; includes beech, birch, chestnuts, elms, hickory,
      pecan, poplar, oaks, and so forth; formerly exogens)
699 Miscellany
SECTION 8 -- MATHEMATICS, ASTRONOMY, ENGINEERING, AND SURVEYING
(Add geographic numbers for regions as needed)

701 Congresses
705 Tables
706 Nomenclature, abbreviations, and so forth
708 Technique
710 Mathematics
   711 Arithmetic
   712 Algebra
   713 Geometry
   714 Trigonometry
   715 Analytical geometry
   716 Calculus
      (Includes functions, Fourier's series, integrals, infinite series, and mathematical analysis)
   718 Theory of error
      (Includes least squares, probabilities, stochastic processes, and time series)
   719 Other branches of mathematics
      (Includes numerical analysis, statistics, topology, theory of groups, vector analysis, and so forth)

730 Astronomy
   730.1 Astrophysics
      (the former 730.2, astrogeology was canceled in 1980, see 737)
   730.3 Space chemistry
   730.4 Space biology
   730.6 Instruments

731 Theoretical astronomy and celestial mechanics
   731.1 Planetary theory

732 Navigational and nautical astronomy
   (Includes other practical applications of astronomy)

733 Spherical astronomy
   (Includes chiefly research on problems relating to the celestial sphere)

734 Descriptive astronomy
   734.1 Universe other than the solar system
   734.2 Cosmic dust
   734.3 Asteroids
   734.4 Stars
   734.5 Sun
   734.6 Meteors
      (see 130 for meteorites)
   734.7 Comets

735 Planetary astronomy
   (Includes solar system)
   735.1 Earth
   735.2 Mars
   735.3 Venus
   735.4 Other major planets
      (Includes Jupiter, Mercury, Saturn)
   735.8 Minor planets
736  Moon
  736.1 Lunar geology
  736.2 Lunar petrology
  736.3 Lunar mineralogy

737  Planetary geology
      (Includes astrogeology, formerly 730.2 prior to 1980)
    737.1 Mercury
    737.2 Venus
    737.3 Mars
    737.4 Jupiter
    737.5 Saturn
    737.6 Uranus and Neptune
    737.7 Pluto and minor planets

      (for Earth see 203; for the moon, see 736.1 and 736.2)

738  Cosmogony
      (Theory of the origin and development of the universe; includes nebular hypothesis)
    738.1 Earth
    738.2 Mars
    738.3 Venus
    738.4 Other major planets: Jupiter, Mercury, Saturn
    738.8 Minor planets

739  Space sciences
      (Includes space exploration, associated space technology, artificial satellites)
    739.1 Congresses
    739.4 Earth satellites
      (for example, ERTS, Landsat, Mapsat, Nimbus, and so forth)
    739.5 Satellite instrumentation
    739.7 Space shuttles
    739.8 Space stations

740  Geodesy
      (The investigation of any scientific question regarding the shape and dimension of the Earth)
    741  Theory and determination of Earth's figure
    742  Base measuring and apparatus
    743  Field work of triangulation
    744  Computation
    745  Formulae and applications
      (The former 746, magmatic surveys, was canceled 1972)
    747  Longitude and latitude, map projections
    748  Global positioning system (GPS), satellite positioning systems
    748.1 Lunar geodesy

750  Surveying
      (Textbooks, manuals, and so forth; includes general topography)
    750.1 Congresses
    750.3 Encyclopedias
    751  Instruments
    752  Measurements of angles, heights, altitudes, leveling
    753  Topographical drawing (see 500 for topographical maps)
    753.1 Photogrammetry (general)  753.2 Automated photogrammetry
    753.4 Instruments and equipment
753.5 Aerial surveying
  753.55 Conferences

753.6 Orthophotography and orthophotomapping

753.7 Remote sensing
  753.71 Conferences
  753.74 Instruments
  753.75 Remote sensing of natural resources
  753.76 Remote sensing for hydrologic studies
  753.77 Remote sensing for geologic and mineralogic studies
  753.78 Remote sensing for land use studies
  753.79 Other remote sensing studies

754 Topographical surveying by states and countries

755 Boundary surveying

756 Military, naval, land surveys
  (for special purposes)

757 Drawing, lettering, illustration of books (general)

758 Coloring

759 Cartography
  (Includes map making and study; use of geological maps)
  759.1 Conferences
  759.3 Workbooks
  759.4 History of cartography
  759.5 Computerized mapping
    (Includes automated cartography, digital cartography, and spatial data handling)
  759.6 Cartographic standards and manuals

760 Engineering
  (general treatises and texts)
  761 Conferences
  762 Reports of utilities companies
  763 Contracts, specifications
  764 Designs and drawings
  765 Tables and calculations
  766 Materials of construction
    (Includes mechanics of construction materials and friction)
  767 Strength of materials
    (Includes structural engineering)
    767.5 Instruments for testing strength of materials
    767.8 Testing of materials
  768 Soil mechanics
    (Includes soil engineering, rock mechanics, and slope stability; for deformations, see 270)
    768.1 Conferences
    768.2 Foundations
    768.3 Dams
    768.4 Other
      (Includes underground construction, compressed air storage, and so forth)
  769 Structures and military construction
    (Includes military structures, buildings, masonry, bridges, air fields; see also 768 for soil engineering, and so forth)
<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>770</td>
<td>Mechanical engineering and machinery</td>
</tr>
<tr>
<td>770.3</td>
<td>Vehicles</td>
</tr>
<tr>
<td>770.5</td>
<td>Machines</td>
</tr>
<tr>
<td>771</td>
<td>Power engineering</td>
</tr>
<tr>
<td></td>
<td>(Includes description, design, and construction of systems, plants and equipment for generation of power (heat and electricity) from non-atomic fuels, solar rays, terrestrial heat, tides, and waves; see 785 for water-power generation; see 815.2 for nuclear power generation)</td>
</tr>
<tr>
<td>772</td>
<td>Transportation engineering, railroads</td>
</tr>
<tr>
<td></td>
<td>(see 774 for highway engineering)</td>
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<tr>
<td>773</td>
<td>Tunnels and tunneling</td>
</tr>
<tr>
<td>774</td>
<td>Highway engineering</td>
</tr>
<tr>
<td></td>
<td>(Includes roads and pavements)</td>
</tr>
<tr>
<td>775</td>
<td>Bridge engineering</td>
</tr>
<tr>
<td>776</td>
<td>Pipelines and pipeline engineering</td>
</tr>
<tr>
<td>777</td>
<td>Well drilling and boring</td>
</tr>
<tr>
<td></td>
<td>(see 490 for water wells)</td>
</tr>
<tr>
<td>778</td>
<td>Hydraulic engineering and machinery</td>
</tr>
<tr>
<td></td>
<td>(Includes canals and channels)</td>
</tr>
<tr>
<td>779</td>
<td>Agricultural engineering</td>
</tr>
<tr>
<td></td>
<td>(Use only for comprehensive multi-topical and serial publications; see also 785, 790, and 940)</td>
</tr>
<tr>
<td>780</td>
<td>Hydrology</td>
</tr>
<tr>
<td></td>
<td>(Includes supply of surface water, hydrography, and water budget; for supply of groundwater, see 490)</td>
</tr>
<tr>
<td>780.01</td>
<td>Conferences</td>
</tr>
<tr>
<td>780.1</td>
<td>Water--juvenile literature</td>
</tr>
<tr>
<td>780.2</td>
<td>Hydrological instruments, measurements</td>
</tr>
<tr>
<td></td>
<td>(For stream measurements, see 783)</td>
</tr>
<tr>
<td>781</td>
<td>Rainfall</td>
</tr>
<tr>
<td></td>
<td>(Includes runoff, snow surveys, and stormwater management)</td>
</tr>
<tr>
<td>782</td>
<td>Evaporation and seepage</td>
</tr>
<tr>
<td>783</td>
<td>Stream measurements</td>
</tr>
<tr>
<td></td>
<td>(Includes stream surveys, streamflow, and so forth)</td>
</tr>
<tr>
<td>784</td>
<td>Water resources development</td>
</tr>
<tr>
<td>784.1</td>
<td>Water resources development conferences</td>
</tr>
<tr>
<td>785</td>
<td>Stream control, hydropower, and water power</td>
</tr>
<tr>
<td>786</td>
<td>Restoration of land, reclamation of land from oceans, lakes, and so forth.</td>
</tr>
<tr>
<td></td>
<td>(For reclamation of mined lands see 585.5)</td>
</tr>
<tr>
<td>790</td>
<td>Water supply for agriculture, rural water supply, and irrigation</td>
</tr>
<tr>
<td>791</td>
<td>Supply and distribution of impounded waters</td>
</tr>
<tr>
<td></td>
<td>(Includes water storage, reservoirs, aqueducts, and dams; see 768.3 for soil engineering aspects of dams; see 490 for supply and distribution of groundwater)</td>
</tr>
<tr>
<td>793</td>
<td>Water conservation</td>
</tr>
<tr>
<td></td>
<td>(Includes water use; water for domestic, industrial, municipal, and military use; waterworks, pumping stations, water mains, storm sewers, and engineering aspects of water supply)</td>
</tr>
</tbody>
</table>
Purification of water supply
(Includes filtration, demineralization and desalinization; see 797 for water quality)

Water pollution
(limited to water pollution since 1972; for general pollution, see 583)
Radioactive pollution of water and waste disposal
Thermal pollution of lakes, rivers, and so forth

Analysis of water

Water quality
(Includes composition of surface water, quality of water supplies, water pollution control, and water chemistry)

Water rights, legislation, and so forth

Sewerage and sanitation
(Includes public health aspects)

Treatment and disposal
Industrial (factory and trade) and municipal wastes and their disposal and recycling
Sewerage utilization
(Includes water reuse)
SECTION 9 -- PHYSICS AND CHEMISTRY
(Add geographic numbers for regions as needed)

801 Conferences
802 Society publications
803 General treatises and textbooks
805 Encyclopedias, tables
806 Nomenclature and classification
807 History
808 Technique, laboratories
809 Essays, lectures, and miscellany
(Includes works on the theory of time, excluding geologic time)

810 Physics
810.3 General treatises and textbooks
810.6 Mathematical physics
811 Conferences
814 Weights and measures
(Includes works on the metric system)
814.8 Specific gravity

815 Constituents of matter, their nature and properties
(Includes molecular, atomic, nuclear, and particle physics)
815.1 Conferences
815.2 Nuclear engineering, nuclear power, and atomic power
(Includes economic aspects, peaceful uses, and power plants)
815.3 Encyclopedias
815.4 Quantum theory
815.5 Radioactivity
(see 838 for radiation)
815.6 Solid state

817 Materials sciences
(theoretical and experimental)

820 Mechanics, mass physics
821 Solids
821.5 Cratering, experimental (small scale)
821.6 Explosion craters, contained explosives
821.65 Nuclear cratering, nuclear explosions

822 Liquids
(Includes fluid dynamics, hydrostatics, fluid mechanics, flow of fluids
through a porous medium, permeability and porosity of porous media,
viscosity, and so forth)
822.3 Rheology
(Study of the deformation and flow of matter)
823 Gases and pneumatics
825 Sound, acoustics, and sound waves
827 High pressure research
828  Impact phenomena
  (Includes physical studies of natural craters and their formation)
830  Heat
  831  Apparatus
  834  Thermodynamics
  (Includes low and high temperature research)
835  Light
  (Includes light waves, optics, optical absorption, spectroscopy, and so forth)
  835.1  Conferences
  835.7  Apparatus and instruments
  (Includes lasers)
837  Photography
  837.1  Microphotography or photomicrography
  837.4  Holography
  (see 835 for theory)
837.5  Audiovisual technology
838  Radiation
  (Includes radioisotopes, electromagnetic waves, particle emissions, X-rays, and cosmic rays; see 815.5 for radioactivity)
840  Magnetism
  (for geomagnetism, see 296)
845  Electricity
  846  Theory
  847  Experiments
  848  Applications and apparatus
  (Includes electrical engineering and electronics)
  848.5  Components
  (Includes devices, instruments and their applications, radios, radar, semiconductors, and telecommunication)
849  Waves
  (Includes vibrations and waves not specifically classified elsewhere; for sound waves, see 825; for light waves, see 835; for electromagnetic waves, X-rays, and cosmic rays, see 838)
850  Chemistry
  850.1  Conferences
  850.3  General treatises and textbooks
  850.5  Encyclopedias, tables, and yearbooks
  850.6  Nomenclature
  850.7  History
  850.8  Apparatus and laboratories
  850.9  Collections and miscellany
851  Physical and theoretical chemistry
  (Includes chemical crystallography)
  852  Thermochemistry
  (Study of the relationship between chemical action and heat)
  853  Atomic theory
  (Includes atomic weights, laws of chemical combination, and nature and properties of chemical elements)
  854  Conditions and laws of chemical change
  (Includes catalysis and reaction velocity)
855 Theory of solution
   (Includes colloids)
856 Radiochemistry
   (Study of radioactive elements, natural and artificial, and their use in the study of chemical processes)

860 Experimental chemistry
863 Equilibria
865 Electrochemistry

870 Inorganic chemistry
871 Nonmetallic elements
872 Metals, metallic elements, organometallic compounds

875 Organic chemistry
   (Includes chemistry of hydrocarbons)

878 Biochemistry
   (Includes bacterial chemistry)

880 Analytical chemistry
881 Qualitative analysis
   (Includes spectrum analysis and Mossbauer spectrometry)
882 Micro-chemical analysis
883 Quantitative analysis

884 Volumetric analysis
   (Includes gasometric analysis)
885 Electrolytic and magneto-chemical analysis
886 Other specific methods of analysis
   (Includes spectrographic X-ray, colorimetric, chromatographic analysis, gas chromatography, and so forth; for theory of spectroscopy, see 835)
887 Analysis of inorganic materials
   (Includes cast-iron, cobalt, copper, metals, minerals, rare earth, rocks, soils, uranium, water, and so forth)

888 Analysis of organic materials
   (Includes coal, fossil biomaterials, fuels, organophosphorus compounds, and so forth)
889 Synthesis

890 Chemical technology and engineering
890.1 Sorption: adsorption and absorption
   (Includes sorbents)
892 Agricultural and soil chemistry
895 Alloys
896 Metallography of steel
   (Includes microscopic research)
SECTION 10 -- BIOLOGY
(Add geographic numbers for regions as needed)

901 Conferences on life sciences in general
(See also 921 for conferences on botany and 971 for conferences on zoology)
902 Encyclopedias and handbooks
903 Natural history
   904 Popular and older works
905 Biology
   907 Bacteriology
       (microbiology)
   908 Technique
   909 Miscellany and collections of wildlife
910 Anthropology
913 Instinct
915 Evolution, origin of life, extinction of species
917 Physiology
918 Distribution of plants and animals
919 Ecological studies
   919.52 Coastal ecology
   919.53 Marine ecology
   919.54 Landform ecology
   919.55 Freshwater ecology
   919.67 Human ecology
   919.92 Plant ecology
   919.93 Savanna and grassland ecology
   919.94 Soil ecology
   919.97 Animal ecology
920 Botany
   921 Conferences
   923 Textbooks and general treatises
   924 Elementary textbooks
   925 Catalogs
   926 Nomenclature and classification
   927 History
   928 Distribution of plants
   929 Essays, collections, and special topics
930 Cryptogams
       (Spore bearing plants including ferns, mosses, and fungi)
   931 Thallophytes
       (Includes fungi, algae (including diatoms) and lichens)
   932 Bryophytes
       (Includes mosses and liverworts)
   933 Pteridophytes
       (Includes ferns, horsetails, and club mosses)
935 Phanerogams
       (seed or flowering plants)
   936 Gymnosperms
       (evergreens)
   937 Angiosperms
       (flowering plants)
938 Monocotyledons
(One seed leaf; includes grasses, bamboo, orchids, palms, and so forth; formerly endogens)

939 Dicotyledons
(Two seed leaves, includes beech, chestnuts, elms, hickory, pecan, poplar, oaks, and so forth; formerly exogens)

940 Agriculture and horticulture

941 Soil science
(Includes soils, soil classification, soil micromorphology, soil physics, soil surveys, soil structure, agricultural aspects of soils, humus and loess; for soil erosion, see 213; for soil formation, see 518; for soil mechanics, see 768; for agricultural chemistry, see 892)

941.1 Soil conferences

944 Soil moisture

950 Forestry, reforestation, forest fires

970 Zoology

971 Conferences

973 Textbooks

974 Elementary, popular, and older works

975 Catalogs

976 Nomenclature and classification

977 History

978 Distribution of animals

979 Miscellany

980 Invertebrata

981 Protozoa
(Includes amoeba and foraminifera (Rhizopoda); Radiolaria; Heliozoa; also includes paramecium (Ciliata); plankton, and so forth)

982 Coelenterata
(Includes sponges (Porifera), corals (Anthozoa), and hydra (Hydrozoa)

983 Echinodermata
(Includes Pelmatozoa: feather stars (Crinoidea), cystoids (Cystoidea), blastoids (Blastoidea); Asterozoa: starfish (Asteroidea), brittle stars and basket stars (Ophiuroidea); Echinoidea: sea urchins (Echinoidea), sea cucumbers (Holothuroidea))

984 Vermes
(Worms: Platyhelminthes (flatworms), Nemathelminthes (roundworms), and Annelida (earth worms))

985 Molluscoidea
(Bryozoa and Brachiopoda)

986 Mollusca
(Includes clams, oysters, and so forth; Bivalvia (lamellibranchiata or pelecypoda); snails (Gastropoda); octopus, squids, nautilus, and so forth (Cephalopoda); marine worms (Scaphopoda)

987 Arthropoda
(Includes crayfish and lobsters (Crustacea); spiders and scorpions (Arachnida); centipedes and millipedes (Myriopoda); insects (Insecta)

989 Tunicata (sea squirts)

990 Vertebrata

991 Fish (Pisces)
Frogs, salamanders, and so forth (Amphibia)

Reptiles (Reptilia)
(Includes lizards, snakes, and turtles)

Birds (Aves)

Mammals (Mammalia)
SECTION 11 -- GEOGRAPHIC NAMES

Introduction

Geographic numbers are identified by the parentheses that enclose them. When parenthetical numbers (100)-(950) are the only element of a classification number, they represent the publications of the geological surveys of the world at the federal, state, and provincial levels. For example, (100) represents the Geological Survey of Canada; (238) represents the Geological Survey of Kentucky. When an agency performs the functions of a geological survey although it has a name other than "geological survey", its publications are classified as a "geological survey". Publications in this schedule include monographs and serials.

(000) World
    (used primarily for map classification)

(020) Space
    (use with map classification)

    CELESTIAL BODIES (025)-(037)
    (use with map classification)

(025) Moon
(030) Jupiter
   (030.1) Io
   (030.2) Europa
   (030.3) Ganymede
   (030.4) Callisto
   (030.5) Amalthea
   (030.6) Ananke
   (030.7) Carme
   (030.8) Elara
   (030.9) Himalia
   (030.10) Leda
   (030.11) Lysithea
   (030.12) Pasiphae
   (030.13) Sinope
(031) Mars
   (031.1) Deimos
   (031.2) Phobos
(032) Mercury
(033) Neptune
   (033.1) Nereid
   (033.2) Triton
(034) Pluto
   (034.1) Charon
(035) Saturn
   (035.1) Dione
   (035.2) Enceladus
   (035.3) Hyperion
   (035.4) Iapetus
   (035.5) Janus
   (035.6) Mimas
(035.7) Phoebe
(035.8) Rhea
(035.9) Tethys
(035.10) Titan
(036) Uranus
(036.1) Ariel
(036.2) Miranda
(036.3) Oberon
(036.4) Titania
(036.5) Umbriel
(037) Venus

HEMISPHERE NUMBERS

(040) Northern Hemisphere
(041) Southern Hemisphere
(042) Western Hemisphere
  (includes The Americas)
(043) Eastern Hemisphere

(050) OCEANS AND SEAS OF THE WORLD

(051) Atlantic Ocean
(052) North Atlantic Ocean
(053) Hudson Bay and Hudson Strait
(054) Baffin Bay, Gulf of St. Lawrence, Davis Strait, Smith Sound, Kane Basin, Labrador Sea
(055) Norwegian and Greenland Seas, Denmark Strait
(056) North Sea, Skagerak, English Channel
(057) Baltic Sea, Gulf of Riga, Mecklenburg Bay
(058) Celtic Sea, St. Georges Channel, Bristol Channel, Irish Sea, Solway Firth, North Channel, Firth of Clyde
(059) Mediterranean Sea and straits
  (includes Ligurian Sea, Tyrrenian Sea, Adriatic Sea, and Ionian Sea)
(060) Black Sea, Sea of Azov
(062) Gulf of Mexico, Sargasso Sea
(063) Caribbean Sea
(065) South Atlantic Ocean
(066) Scotia Sea
(067) Great Lakes, St. Lawrence Seaway
(068) Caspian Sea, Aral Sea
(070) Indian Ocean
(071) Arabian Sea
(072) Red Sea, Gulf of Aden
(073) Persian Gulf, Gulf of Oman
(074) Bay of Bengal
(080) Pacific Ocean
(081) North Pacific Ocean, Philippine Sea
(082) Bering Sea
(083) Eastern Pacific, American coasts, Gulf of Alaska, and Gulf of California
(084) South Pacific, Tasman Sea, Coral Sea
(085) **Indonesian and Micronesian Seas**  
(includes Timor, Arafura, Banda, Flores, Java, Celebes, and Sulu Seas, and others)  
(086) **South China Sea**  
(087) **East China Sea, Yellow Sea, Formosa Strait**  
(088) **Sea of Japan, Sea of Okhotsk**  
(090) **Arctic Ocean, Lincoln Sea**  
(091) **Beaufort Sea, Northwest passages**  
(092) **Barents Sea, White Sea**  
(093) **Kara, Laptev, East Siberian, and Chukchi Seas**  
(096) **Antarctic Sea**  
(includes Ross, Amundsen, Bellingshausen, and Weddell Seas)

**CONTINENTS AND COUNTRIES OF THE WORLD**

**Americas** (see (042))

(099) **NORTH AMERICA**

(100) **Canada**  
(110) **New Brunswick**  
(120) **Nova Scotia, Prince Edwards Island, Cape Breton Island**  
(130) **Newfoundland**  
(135) **Labrador**  
(use only with maps)  
(137) **St. Pierre et Miquelon**  
(includes other islands belonging to France)  
(140) **Quebec and Ungava**  
(150) **Ontario**  
(160) **Manitoba**  
(165) **Saskatchewan**  
(170) **Alberta**  
(180) **British Columbia**  
(182) **Yukon**  
(183) **Northwest Territories**  
(as a whole)  
(184) **Mackenzie**  
(186) **Keewatin**  
(188) **Franklin**  
(190) **Arctic America**  
(Canadian)

(200) **United States**  
(207) **Northeastern States**  
(208) **Atlantic Coast**  
(210) **New England**  
(211) **Maine**  
(212) **New Hampshire**  
(213) **Vermont**  
(214) **Massachusetts**  
(215) **Rhode Island**  
(216) **Connecticut**
(220) Middle Atlantic States
    (includes Appalachia)
    (221) New York
    (222) New Jersey
    (223) Pennsylvania
    (224) Delaware
    (225) Maryland
    (226) District of Columbia
    (227) Virginia
    (228) West Virginia

(229) Southern States
(230) Southern States, Eastern Section
(231) North Carolina
(232) South Carolina
(233) Georgia
(233.9) Gulf States
    (234) Florida
    (235) Alabama
    (236) Mississippi
    (237) Louisiana
(238) Kentucky
(239) Tennessee

(240) Southern States, Western Section
(241) Arkansas
(243) Indian Territory
(244) Oklahoma
(245) Texas

(249) Central States
(250) Central States, Eastern Section
    (251) Ohio
    (252) Indiana
    (253) Illinois
    (254) Wisconsin
    (255) Michigan
(260) Central States, Western section
    (261) Minnesota
    (262) Iowa
    (263) Missouri
    (264) North Dakota
    (265) South Dakota
    (266) Nebraska
    (267) Kansas

(269) Western States
(270) Southwestern States
    (271) Colorado
    (272) New Mexico
    (273) Utah
    (274) Arizona
    (275) Nevada
    (276) California
(280) Northwestern States
(281) Montana
(282) Wyoming
   (includes Yellowstone National Park)
(283) Idaho
(284) Washington
(285) Oregon
(286) Alaska
   (includes Aleutian Islands)
(289) Pacific Coast

Geographic numbers for the following U.S. territories located outside the conterminous United States are assigned to the region in which they are located:

American Samoa, see (960)
Guam, see (970)
Hawaii, see (950)
Puerto Rico, see (394)
U.S. Virgin Islands, see (394.1)

(299) LATIN AMERICA

(300) Mexico
(310) Free Zone and Northern States
      Tamaulipas
      Nuevo Leon
      Coahuila
      Chihuahua
      Sonora
      Durango
(320) Lower California and Islands
      (Baja California: Baja Sur, Baja Norte)
(330) Central Pacific States
      Jalisco
      Colima
      Michoacan
      Nayarit
(340) Interior States
      Zacatecas
      San Luis Potosi
      Aguascalientes
      Guanajuato
      Queretaro
      Hidalgo
      Puebla
      Tlaxcala
      Morelos
(350) Mexico State
      Mexico City and environs
Mexico
(Federal District)

(360) Southern Gulf States
Veracruz
Tabasco
Campeche
Yucatan
Quintana Roo

(370) Southern Pacific States
Queretaro
Oaxaca
Tehuantepec, Isthmus of
Chiapas

(380) CENTRAL AMERICA

(381) Guatemala
(382) Belize
(formerly British Honduras)

(383) Honduras
(384) El Salvador
(385) Nicaragua
(386) Costa Rica
(387) Panama and Panama Canal

(390) West Indies
(includes Caribbean Region)

(391) Cuba
(392) Jamaica

(392.2) Cayman Islands
(393) Hispaniola

(393.3) Haiti
(393.5) Dominican Republic
(formerly Santo Domingo)

(394) Puerto Rico

(394.1) Virgin Islands
(394.2) British Virgin Islands

(394.3) Trinidad and Tobago

(395) Bahamas, Turks, and Caicos Islands

(396) Leeward Islands
(includes Anguilla, Antigua, Barbuda, Montserrat, Nevis, Redonda, Saba, St. Christopher, St. Martin, St. Eustatius, and Sombrero)

(397) Windward Islands
(includes Martinique, Guadeloupe, Dominica, St. Lucia, St. Vincent, Grenada, and the Grenadines Islands)

(397.1) Barbados

(398) Bermuda

(399) The Netherlands Antilles
(includes Dutch Antilles; including Curacao, Aruba, and Bonaire)
(400) SOUTH AMERICA

(410) Brazil
(420) Argentina
(429) Patagonia
(430) Chile
(440) Bolivia
(450) Peru
(460) Colombia
(465) Ecuador
(470) Venezuela
(480) Guyana
(481) French Guiana
(482) Surinam
(formerly Netherlands Guiana or Dutch Guiana)
(490) Uruguay
(492) Paraguay
(497) Falkland Islands
(includes South Georgia and South Sandwich Islands)

(500) EUROPE

(510) Great Britain
(511) Islands of northern Great Britain
(includes Orkney Islands, Fair Island, Shetland (Zetland) Islands, Hebrides: Outer Hebrides: Lewis and Harris, North Uist, South Uist, Barra, St. Kilda, and Flannan Islands; Inner Hebrides: Skye, Mull, Islay Islands, and other lesser islands and islets)

(512) Scotland
(515) Ireland
(Eire)
(516) Northern Ireland
(520) England and Wales
(520.5) Colonial geological surveys
(521) Islands of the Irish Sea: Isle of Man and so forth; Islands of St. Georges Channel: Lundy Island, Isles of Scilly, and so forth; Channel Islands: Alderney, Guernsey, Jersey, and Sark

(530) Germany, German Federal Republic
(530.11) Lower Saxony
(Niedersachsen)
(530.111) Hamburg
(530.112) Bremen
(530.12) Bavaria (Bayern)
(530.13) Rhineland-Palatinate
(Rheinland-Pfalz)
(530.14) Baden-Wurttemberg
(530.15) North Rhine-Westphalia
(Nordrhein-Westfalen)
(530.16) Hessen
(530.17) Schleswig-Holstein
(530.18) Saarland
(530.19) Berlin
(includes West Berlin and the reunified city 1990- )

(530.21) Saxony-Anhalt
(Sachsen-Anhalt)

(530.22) Brandenburg

(530.3) Saxony
(Sachsen; discontinued 1945-1989; reinstated with the unification of Germany, 1990- )

(530.35) Thuringia
(Thuringen; discontinued 1945-1989; reinstated with the unification of Germany, 1990- )

(530.7) Mecklenburg-Vorpommern
(discontinued 1945-1989; reinstated with the unification of Germany, 1990- )

Discontinued numbers:

*(530.1) Prussia, *(530.2) Bavaria,
*(530.4) Wurttemberg, *(530.5) Baden,
*(530.6) Hesse, *(530.75) Schleswig-Holstein,
*(530.8) Brunswick, *(530.85) Hanover-Celle,
*(530.9) Alsace-Lorraine (before Nov. 1918)

(531) German Democratic Republic 1949-1990
(East Germany; includes the following districts: Cottbus, Dresden, East Berlin, Erfurt, Frankfurt, Gera, Halle, Karl-Marx-Stadt, Leipzig, Magdeburg, Neubrandenburg, Potsdam, Rostock, Schwerin, and Suhl)

(532) Czechoslovakia
(532.2) Czech Republic
(532.3) Slovakia

(533) Austria
(533.1) Galicia

(534) Hungary
(534.1) Croatia-Slovenia before 1914

(535) Switzerland

(536) Liechtenstein

(540) France
(includes Corsica (Corse))
(540.7) Alsace-Lorraine (after Nov. 1918)

(548) Monaco

(550) Italy
(includes the Mediterranean islands of Sardinia and the Tuscan Archipelago:
Montecristo, Giglio, Pianosa, Capraia, Elba, etc.; Lipari Islands: Stromboli, Vulcano, Salina, and so forth; Sicily; and Pantelleria)

(551) San Marino

(559) Iberian Peninsula

(560) Spain
(includes Gibraltar and Balearic Islands)

(565) Andorra

(569) Portugal

(570) Russia (1992)
(includes European Russia, Kaliningrad, Orenburg, Chelyabinsk and Sverdlovsk oblasts;
use also for the former Soviet Union (including Russian S.F.S.R., U.S.S.R., European
R.S.F.S.R. until 1992))

(571) Ukraine
(571.1) Moldova
(1993)

(572) The Caucasus
(572.1) Armenia
(1993)
(572.2) Azerbaijan
(1993)
(572.3) Georgia
(1993)

(573) Estonia
(574) Latvia
(575) Lithuania
(576) Baltic region
(577) Belarus
(Byelorussia, White Russia)

(578) Poland
(579) Finland
(580) Scandinavia
(581) Norway
(583) Sweden
(585) Denmark
(585.5) Faeroe Islands

(587) Iceland
(590) Other European countries
(591) Netherlands
(592) Luxembourg
(593) Belgium
(594) Romania
(595) Bulgaria
(596) Yugoslavia
(includes Serbia and Montenegro until 1992)
(596.1) Croatia
(596.2) Serbia
(1993)
(596.3) Slovenia
(596.4) Bosnia-Herzegovina
(596.41) Montenegro
(or Crna Gora, also Tsernagora; 1993)
(596.5) Macedonia
(596.6) Albania

(597) Greece
(includes Ionian Islands and Crete)
Turkey
(see (680))

(599) Malta
Cyprus
(see (684))
(600) ASIA

(610) China
  (610.1) Fukien
  (610.12) Heilungkiang
  (610.2) Honan
  (610.21) Hopeh
  (610.3) Hunan
  (610.31) Hupeh
  (610.32) Kansu
  (610.4) Kiangsi
  (610.41) Kiangsu
  (610.42) Kirin
  (610.5) Kwangtung
  (610.51) Macau (Macao) and Hong Kong
  (610.6) Kweichow
  (610.61) Liaoning
  (610.62) Shansi
  (610.63) Shantung
  (610.64) Shensi
  (610.7) Sinkiang-Uighur
  (610.8) Szechwan
  (610.81) Tsinghai
  (610.82) Yunnan
  (610.83) Anhwei
  (610.84) Chekiang
  (610.9) Autonomous regions
    (610.91) Inner Mongolia
    (610.92) Kwangsi Chaung
    (610.93) Ningsia Hui

(611) Taiwan (Formosa)

(615) Nepal, Bhutan, central Asia and area northwest of Tibet, and Sikkim
  (before 1975, class as independent state; after 1975, class as province of India at
  (641.71))

(616) Tibet

(618) Manchuria
  (after 1949, roughly identical with Chinese provinces of Heilungkiang, Kirwin, and
  Liaoning)

(619) Mongolian People's Republic
  (includes Mongolia, formerly Outer Mongolia, a Chinese province)

(620) Japan

(625) Korea

(629) Southeastern Asia
  (630) Indo-China
    (631) Vietnam
    (633) Laos
    (634) Cambodia
    (635) Thailand
      (formerly Siam)
  (637) Malay States
    (after 1963, see Malaysia 911)
Chagos Archipelago
Islands of South China Sea and other isolated Asian islands.

India

(640.2) Assam
(640.3) Gujarat
(640.4) Bihar
(640.5) Harayana
(640.51) Himachal Pradesh
(640.6) Rajasthan
(640.7) Kerala
  (formerly Travancore)
(640.8) Uttar Pradesh
(641.3) Manipur
(641.4) Meghalaya
(641.41) Marharashtra
(641.5) Nagaland
(641.6) Orissa
(641.7) Punjab
(641.71) Sikkim
(641.8) Tripura
(642) Tamil Nadu
  (formerly Madras)
(643) Rewa
  (now in Madhya Pradesh)
(643.2) West Bengal
(643.3) Jammu and Kashmir
(644) Madhya Pradesh
(645) Karnataka
  (formerly Mysore)
(646) Andra Pradesh
(646.2) Union Territories
  (includes Andaman and Nicobar, Arunachal Pradesh, Chandigarh, Dadra and Nagar Haveli, Delhi, Goa, Daman, Diu, Lakshadweep, Mizoram, and Pondicherry)

Burma
  (Myanmar)

Pakistan
  (formerly West Pakistan; includes Punjab, Sind, North-West Frontier Province, and most of Baluchistan; see (660) for Iranian Baluchistan)

Bangladesh
  (formerly East Pakistan)

Sri Lanka
  (formerly Ceylon)

MIDDLE EAST AND NEAR EAST

Afghanistan

Iran
  (formerly Persia; includes part of Baluchistan; see (648) for Pakistani Baluchistan)

Arabian Peninsula
(665) Iraq
(formerly Mesopotamia)

(670) Saudi Arabia

(671) Yemen
(Yemen Arab Republic; Yemen (San'a))

(672) Oman
(formerly Muscat and Oman)

(673) People's Democratic Republic of Yemen
(formerly Aden, Socotra, South Yemen, South Arabia)

(674) Kuwait

(675) Bahrain, Qatar, and United Arab Emirates
(formerly Trucial States; includes Abu Dhabi, Ajman, Dubai, Fujairah, Ras, Al-Khaimah, Sharjah, and Umm al-Qaiwain)

(680) Turkey

(681) Israel
(includes Palestine)

(682) Syria

(683) Lebanon

(684) Cyprus

(685) Jordan

(690) SIBERIA

(690.2) Western Siberia
(includes Kurgan, Tyumen, Omsk, Tomsk, Novosibirsk, Kemerovo oblasts; Altay Kray (including the Sayan Mountains); see (570) for Orenburg, Chelyabinsk, and Sverdlovsk oblasts)

(690.3) Eastern Siberia
(includes Krasnoyarsk Kray, Sakha or Yakutia (formerly Yakut A.S.S.R.), Buryatia (formerly Buryat A.S.S.R.), Tuva (formerly Tuva A.S.S.Р.), Irkutsk and Chita oblasts, Transbaikalia, and Taymyr Peninsula)

(691) Far Eastern Siberia (formerly Soviet Far East)
(includes Magadan, Kamchatka, Amur oblasts, Khabarovsk, and Primorski Kray (formerly Maritime Territory))

(693) Sakhalin Oblast and Kurile Islands

(693.5) Central Asian region
(formerly Soviet Central Asia)

(694) Tajikistan

(695) Kazakstan

(695.3) Turkmenistan

(695.6) Kyrgyzstan

(696) Uzbekistan

*(697) Eastern Siberia
(discontinued 1975, see (690.3))

(699) Eurasia

(700) AFRICA

(710) North Africa
(710.1) Libya
(includes the former provinces of Tripolitania, Cyrenaica, Fezzan, and Barka (Barca))

(720) Egypt
(includes the Nile country, Sinai, and Suez Canal)

(720.5) Sudan
(formerly Anglo-Egyptian Sudan)

(730) Algeria

(735) Tunisia

(740) Morocco
(includes Spanish Morocco, Tangier, and Ifni)

(741) Western Sahara
(formerly Spanish Sahara)

(741.5) Equatorial Guinea
(formerly Spanish Guinea)

(742) Guinea-Bissau
(formerly Portuguese Guinea)

(743) Mali
(formerly French Sudan)

(744) Mauritania

(745) Guinea Republic
(formerly French Guinea)

(746) Cote d’Ivoire
(formerly Ivory Coast)

(747) Burkina Faso
(formerly Upper Volta)

(747.5) Benin
(formerly Dahomey)

(748) Togo
(or Togolese Republic; formerly French Togo)

(749) Azores, Madeira, Canary Islands, and Cape Verde Islands

(749.5) South Atlantic Islands
(includes Ascension, St. Helena, and Tristan da Cunha)

(750) West African Region
(includes Western Sahara and Central Africa)

(750.1) Niger Republic

(751) Cameroon

(751.5) St. Thomas and Principe

(752) Nigeria

(753) Ghana
(formerly Gold Coast)

(754) Liberia

(755) Sierra Leone

(756) Central African Republic
(formerly French West Africa)

(756.2) Senegal

(756.4) Gabon

(757) Chad

*(758) French Equatorial Africa
(discontinued 1972; see Chad, Gabon, Congo, or Central African Republic)
(759) Gambia
(760) Zimbabwe
(formerly Rhodesia, Southern Rhodesia)
(761) Zambia
(formerly Northern Rhodesia)
(763) Congo, Republic of
(formerly Congo (Brazzaville))
(764) Congo, Democratic Republic of
(formerly Zaire; Belgian Congo)
(768) Angola
(formerly Portuguese West Africa)

(769) East African Region
(includes Horn of Africa)
(770) Burundi
(771) Rwanda
(772) Ethiopia
(formerly Abyssinia)
(772.1) Eritrea
(772.5) Djibouti, Afars, and Issas
(773) Somalia
(formerly Somaliland)
(774) Tanzania
(formerly Tanganyika; includes the Island of Zanzibar (see 779), Pemba, and Mafia)
(775) Kenya
(formerly British East Africa)
(776) Uganda
(777) Malawi
(formerly Nyasaland)
(778) Mozambique
(779) Zanzibar
(In 1964 became part of Tanzania)

(780) South African Region
(includes Matebele Kingdom)
(780.4) Botswana
(formerly Bechuanaland)
(781) Namibia
(formerly Southwest Africa; includes Damaraland and Namaqualand
(Namaland, Great Namaqualand, or Great Namaland)
(782) Cape of Good Hope
(formerly Cape Colony)
(783) Orange Free State
(formerly Orange River Colony)
(784) South African Republic
(785) Transvaal
(786) Natal
(includes Zululand)
(786.5) Lesotho
(formerly Basutoland)
Republic of South Africa
(formerly Union of South Africa; includes Little Namaland of Little Namaqualand)

Swaziland

Madagascar
(formerly Malagasy Republic)

Reunion Islands

Mauritius

Comoro, Seychelles, Cocos-Keeling, Maldives Islands, and unspecified Indian Ocean Islands

AUSTRALIA, TASMANIA, AND NEW ZEALAND

Australia

Queensland

New South Wales

Victoria

South Australia

Northern Territory

Western Australia

Tasmania

New Zealand

Islands off the coast of Australia, Tasmania, New Zealand, and other Australasian islands not included in Oceania.

OCEANIA AND THE MALAY ARCHIPELAGO

Indonesia
(includes Bali, Bangka, Ceram (Seram), Dutch East Indies, Flores, Java, Kalimantan (south, central, east, and west Borneo), Lombok, Madura, Moluccas (Maluku), Nusa Tenggara (West Timor), Sumatra, Sumba, Sumbawa, Timor (East Timor), West Irian (western half of New Guinea))

Malaysia
(includes Malayan states, and Sabah, Sarawak, and Brunei (North Borneo))

Singapore

The Philippines

Melanesia
(includes Papua New Guinea and Bismarck Archipelago (New Britain, New Ireland, New Hanover), and Admiralty Islands)

New Caledonia and Loyalty Islands

Vanuatu
(formerly New Hebrides)

Solomon Islands

Micronesia
(includes Caroline, Ladrone, Marianas, Marshall, Gilbert, and Palau Islands; Nauru and the Trust Territory of the Pacific Islands)

Hawaii

Polynesia
(includes French Polynesia: Marquesas, Society (includes Tahiti and Bora-Bora), Gambier, Tubuai Islands (Austral Islands), and Tuamotu Archipelago; Cook, Ellice, Tokelau, Phoenix,
and Line Islands; Samoa, Tonga (Friendly Islands), Midway, Horn, Johnston, Easter, Palmyra, Howard, Baker, Fiji Islands)

(970) Guam and other isolated islands
(includes Bonin, Marcus, Galapagos Islands, and so forth)

(979) Other isolated islands of Oceania

(980) Arctic regions
(includes Baffin Island (formerly Baffin Land), Greenland, Svalbard, and so forth)

(990) Antarctic regions

(995) Polar regions
1. **Publications of Geological Surveys.**

The geological survey schedule contains the monographs and serials issued by the geological surveys of the world and those agencies that perform the functions of geological surveys. Typical numbers consist of a geographical number followed by a shelf list number and ending with a date. For example, (200) R29o is the call number for the serial "U.S. Geological Survey open-file reports". For complete instructions on the construction of geological survey call numbers see the introduction.

2. **Earth science serials: G(100)-G(995)**

   a. This schedule contains the serial publications of earth science associations, societies, institutes, earth science departments of universities, and geology oriented publisher's series. Typical call numbers consist of classification numbers (G added to a geographic number (see Section 11), shelf list numbers), and title marks. For detailed instructions on the construction of call numbers, see the introduction. Monographic publications by these institutions are classified in the subject schedule (see Sections 1-10).

   b. Serials with the following subject matter are classified in the G schedule:

   - Economic geology
   - Geochemistry
   - Geodynamics
   - Geology
   - Historical geology
   - Mineralogy
   - Neotectonics
   - Ore deposits
   - Paleontology
   - Petrology
   - Physical geology
   - Stratigraphic geology
   - Structural geology
   - Tectonics

3. **General science serials--S(100)-S(995)**

   a. The S schedule contains serials issued by general science societies, associations, institutes, university science departments, and science publishers. Typical call numbers contain elements similar to those found in the G schedule. For detailed instructions on the classification of serials in the S schedule, see the introduction. All monographic publications issued by these institutions are classified in the subject schedule.

   b. Although this section was originally designed for general science subjects excluding the earth sciences, over the years some earth science subjects were
included here, namely: earthquakes, seismology, geophysics, geothermal resources, geysers, and glaciology. The following subjects are classified in the S schedule:

- Astronomy
- Biology
- Chemistry
- Computer science (canceled in 1998; class computer science periodicals in 034.5-039.8)
- Conservation
- Earthquakes
- Engineering
- Environment
- Geography
- Geomorphology
- Geophysics
- Geothermal resources
- Geysers
- Glaciology
- Groundwater
- Hydrology
- Hydrogeology
- Mathematics
- Metals
- Mineral industries
- Mines and mineral resources
- Natural gas
- Natural resources
- Oceanography
- Petroleum
- Physics
- Pollution
- Precious stones
- Remote sensing

4. Serials of government agencies--P(100)-P(995)

This schedule contains the serial publications of federal, state, provincial, and local agencies throughout the world, with the exception of the publications of mineral and mining bureaus (see Section 5, Mines and Mineral Resources at 402). Also excluded are the publications of the geological surveys of the world (see Section 11). The monographic works of these agencies are classified in the subject schedule (see Sections 1-10). From 1976 to 1989 most monographic government documents were included in the “P” schedule. The current policy is to classify them in the subject schedule (see Sections 1-10).

5. Serials not classified in "G", "P", or "S":

Periodicals that are international in scope or published by an international body.

034.5-039.8 Computer science periodicals
041, 042 Bibliographies

045.1 Library science periodicals

055 Statistical yearbooks

056-057 Periodical directories

402 Publications of mining and mineral bureaus including periodicals and monographs

602 Periodicals of paleontological societies, institutes, and associations; museums of natural history, university paleontological departments and laboratories; local government departments of paleontology, museums of natural history, and local paleontological laboratories.

780 Prior to 1983 some state and local government hydrology publications were included in this number. After 1983 the policy is to classify all hydrology periodicals in S schedule with the exceptions of state and local government publications which are classified in P(XXX).

(100)-(995) Publications of geological surveys
### SECTION 13 -- INDEX TO THE CLASSIFICATION SYSTEM

* Denotes classification numbers used in earlier editions of the system and not currently used.

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