



Cataloging Sheet Maps

according to AACR2, Chapter 3

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Objectives

- Learn what's different about cataloging sheet maps

- Cover areas of bibliographic description, with an emphasis on aspects that are map-specific
- Become familiar with the components of an LC call number for sheet maps



Sheet Map

- A sheet map is a two dimensional representation of a life sized three dimensional space with curved surfaces.

- The dimensional relationship between reality and the sheet map is known as **Scale**.
- The translation of the curved surface to a flat sheet is known as **Projection**.



Chief Source of Information

- Any part of the map or its container can be used as the chief source. If the information is not available on the chief source, the cataloger can take the information from accompanying printed material. (Rule 3.0B2)



Cartographic-specific fixed fields

- Type of record (Type) : code “e”
- Type of Cartographic Material (CrTp): For sheet maps, code “a”
- Projection (Proj): Required if applicable. Two-letter code to identify type of projection used to create the map. If a ≠b exists in the 255 field, then the cataloger must code this fixed field. A table of projection codes is available at <http://www.oclc.org/oclc/bib/proj.htm>
- Index (Indx): Optional. Code “0” (zero) if the map doesn’t include an index; code “1” if the map includes an index or gazetteer.



Cartographic-specific fixed fields

- Relief (Relf): Up to four codes in the field depicting means of relief (elevation and depth) shown on the map. Common relief codes --
 - a – contours
 - b – shading
 - d - hachures
 - g – spot heights
- For a table of codes for relief types, consult the “relief” fixed field chapter in OCLC’s *Bibliographic Formats and Standards* or *MARC21 Concise Format for Bibliographic Data*.



Coded variable fields

- Three are mandatory in OCLC

007 Physical description

034 Cartographical mathematical data

052 Geographic classification

- One is commonly used, but optional

043 Geographic area code

007 field

- #a Category of material (Mandatory)
- #b Specific material (Mandatory)
- #d Color (Optional)
- #e Physical medium (Optional)
- #f Type of reproduction (Optional)
- #g Production/reproduction details (Optional)
- #h Positive/negative aspect (Optional)

A colored sheet map on paper: 007 a #b j #d c #e a #f n #g z #h n

Coded information from the 007 field must match the #a and #b in the 300

Corresponding 300 field: 1 map: #b col ; #c 30 x 60 cm.

#b j = map

#d c = color

034, 052, & 043 fields

- 034 field (Coded Mathematical Data). Mandatory.
 - #a mandatory in all cases
 - #b mandatory when applicable (i.e. when a representative fraction is given in the 255 field).
- 052 field (Geographic Classification). Mandatory. Repeatable.
Classification number from the G schedule and a geographic cutter in #b, when applicable.
- 043 Field (Geographic Area Code). Optional. Not Repeatable.
A code is seven characters in length and in the form of x-xx-xx.
 - 043 for the United States: n-us---
 - 043 for California: n-us-ca



Title & Statement of Responsibility

- Transcribe the title proper, the GMD, any parallel titles and other title information, and statements of responsibility from the chief source of information, into the 245 field.
 - Chief source of information is entire map or container.
 - Refer to AACR2 Rule 3.1B for more instructions specific to sheet maps.



Title & Statement of Responsibility (cont.)

- No title
 - Refer to AACR2 Rule 3.1B4.
- Multiple or ambiguous titles
 - “Table of title location in order of preference” from *Cartographic materials: A manual of interpretation for AACR2, 2002 revision* (given below in the Notes section).
- Scattered titles
 - If title elements are scattered throughout source, construct a title proper in natural reading order.
 - Base order of preference on section 1B9, part 2 of *Cartographic materials: A manual of interpretation for AACR2, 2002 revision*



Title & Statement of Responsibility (cont.)

- **Statement of Responsibility**
 - More terms indicative of responsibility than for other media.
 - If there are several statements of responsibility, use AACR2 Rule 1.1F6 to determine the order of transcription.
 - If no statement of responsibility appears prominently in the item, do not construct or extract one from the content of the item.



GMD

MARC 245 Subfield h

- AACR2r 3.1C says GMD for sheet maps is optional. [cartographic material]
- Some catalogers feel it is helpful to add a GMD in their local catalogs when the title does not imply that the resource is a map.
- LC does not use a GMD for sheet maps. LCRI 1.1C
- Please refer to the SMD, cartographic Special Material Designation, in the physical description area, MARC 300



Edition Statement MARC 250

- Edition Statements are not that common with sheet maps.
- If there is an edition statement, transcribe it according to Rule 3.2B1
- If any edition statement is not from the chief source, put it in brackets and add a general note to the 5xx.
- If there are several maps in a series with different edition statements use [Various ed.] and add a general note into the 5xx.



Mathematical and other Material-Specific details (MARC field 255)

- Scale

- Projection
- Coordinates



Scale information

- Scale is the relationship between distance on the map and distance on the ground
 - In a bibliographic record, always given as a representative fraction (RF)--- 1:10,000
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- The number to the left of the colon represents the unit on the map and is always a one.
 - The number to the right of the colon represents the units on the ground (in real life).
 - The larger the second number is, the smaller the scale of the map (and less detail)
 - The lower the second number, the larger the scale (more detail shown on the map)



Scale

Description

1:10,000

Highly detailed, used for small cities or parts of larger cities

1:500,000

A country the size of Ireland might be mapped at this scale

1:25,000,000

Usually world wall maps

Source: Map buying guide @MapLink
<http://store.maplink.com/buyingguide.aspx>

Scale information may appear on a map as:

- a representative fraction (RF) expressed as a ratio, e.g. 1:50,000

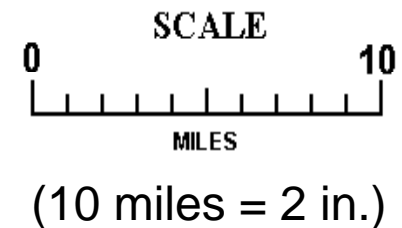
255 Scale 1:50,000

- a verbal statement, e.g. 1 inch = 4 miles

255 Scale [1:253,440].

- as a line or bar scale

255 Scale [1:316,800].





Projection

- The process used to represent the curved surface of the earth on a flat surface (e.g. sheet map).

- This area of MARC field 255, subfield “b” is transcribed onto the bibliographic record if found on the item, its container, or case, or accompanying material (Rule 3.3C1).

255 Scale [1:1,000,000] ; #b Lambert proj.



Coordinates (optional)

- LC practice is to provide a statement of coordinates only (entered in subfield “c” of MARC field 255) when the information is readily available on the item.
- Express the coordinates in degrees (°), minutes (′), and seconds (″).
- Precede each coordinate by W, E, N, or S, as appropriate and provide the coordinates in that order, according to Rule 3.3D1 in AACR2r and Rule 3D1a in *Cartographic materials*.

255 Scale 1:1,525,000 ≠c (E 39⁰--E 48⁰/N 37⁰--N 29⁰).



Publication / Distribution

MARC 260

- Subfield a = Place of publication
- Subfield b = Name of publisher
- Subfield c = Date of publication



Publication/Distribution MARC 260

- Rules 1.4C, 3.4D1, 1.4D's, 1.4F's
- Frequently no formal publication statement.
- Sometimes the cataloger digs for information about publishing.
- Sometimes the cataloger makes an educated guess about publishing.
- If info not from chief source, put in square brackets.
- If an educated guess, insert a question mark.



MARC 260 - Publication Examples

- 260 __ _ Washington D.C. : \$b Central Intelligence Agency, \$c 2004.

- 260 __ _ [Washington D.C. : \$b Central Intelligence Agency, \$c 2004]
- 260 __ _ [Washington D.C.?] : \$b Federal Highway Administration, \$c 2006.



Physical Description

MARC 300

- SMD = map. SMD is part of subfield a.
- Subfield a = extent of the item.
- Subfield b = arrangement and production of the maps.
- Subfield c = dimensions of the map

Examples of MARC 300 Subfield

a

- ❖ 300 __ 1 map :
- ❖ 300 __ 1 map in 2 segments :
- ❖ 300 __ 2 maps :
- ❖ 300 __ 2 maps on 1 sheet :

Examples of MARC 300 Subfield

b

- ❖ 300 _ _ 1 map : \$b both sides ; \$c
- ❖ 300 _ _ 1 map in 2 segments : \$b col. ; \$c
- ❖ 300 _ _ 2 maps on 1 sheet : \$b both sides,
1 col. ; \$c
- ❖ 300 _ _ maps : \$b some col. ; \$c

Neat Line

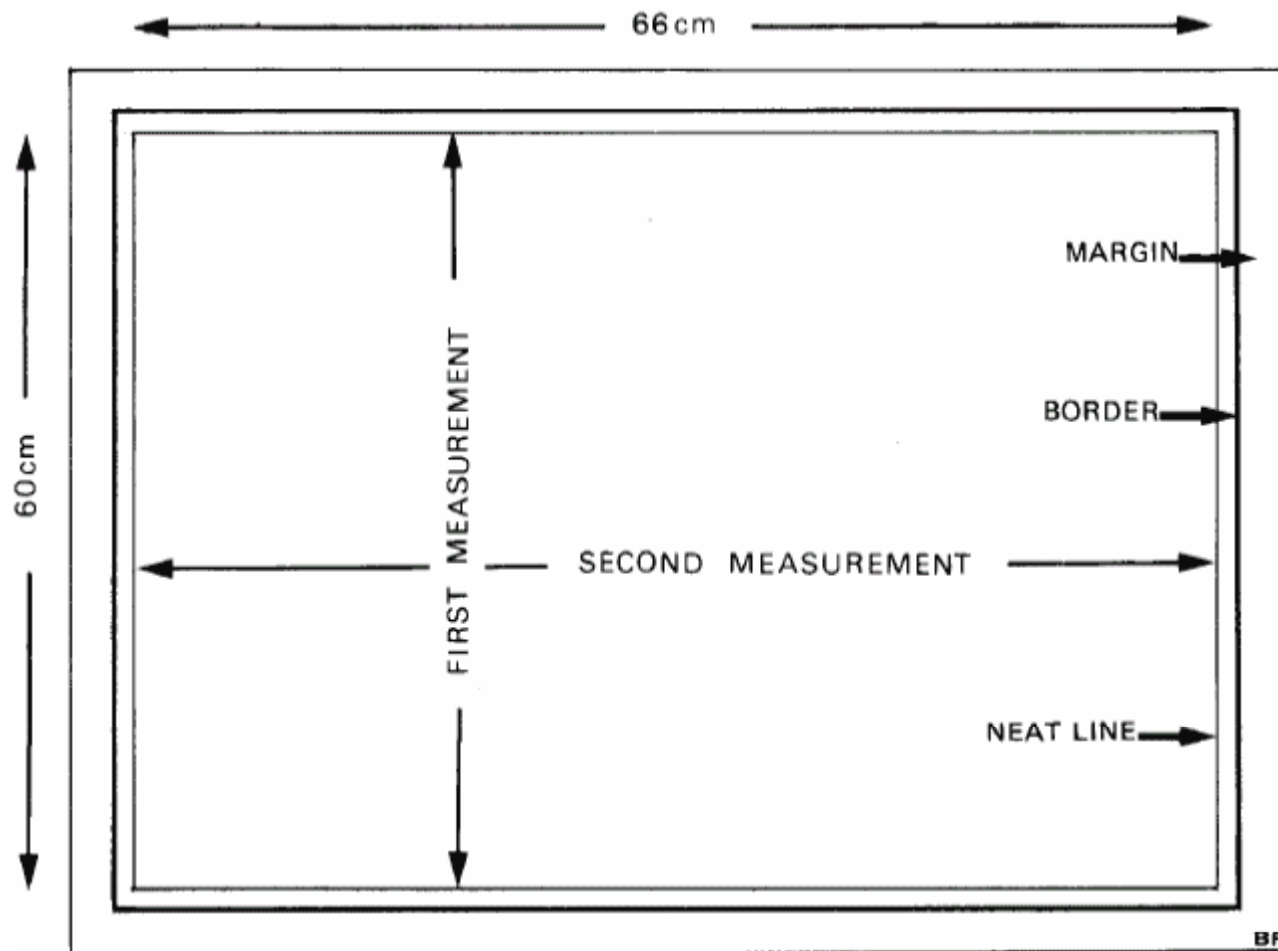


Figure 19. [5D1](#). Dimensions. Neat line, border, and margins. Measure within the neat line
1 map : col. ; 60 ´ 66 cm

Examples of MARC 300 Subfield

C

- ❖ 300 __ 1 map : \$b col. ; \$c 24 x 36 cm., on sheet 30 x 40 cm.
- ❖ 300 __ 1 map : \$b col. ; \$c 100 x 90 cm., in tube 8 cm. in diam.
- ❖ 300 __ 2 maps on 1 sheet : \$b back to back, col. ; \$c 30 x 50 cm.
- ❖ 300 __ 20 maps : \$b some col. ; \$c 45 x 44cm. or smaller, on sheets 65 x 53 cm. or smaller.



Notes area

- Because of the non-textual nature of maps, they may require more notes than monographs. Notes for sheet maps follow the general pattern in AACR2 1.7.
- Follow the order of notes as indicated in 3.7B.

Some Essential Notes

- These notes assist the map user in his or her task of identifying and selecting the material

Relief method notes (will have a corresponding Relf fixed field)

500 Relief shown by contours.

Orientation of the map (if other than north)

500 Oriented with north to right.

Contents

500 Contents: The world in 3000 B.C. – The world in 1500 B.C.

Unique numbering

500 "Base 803069AI (C00459) 9-04."



Additional Notes

- These notes are of particular help to other catalogers, but may also be helpful to more advanced map users.

Insets

500 Includes 4 insets.

Index information

500 Includes an index and illustrations of the Wangapeka Track.

Includes notes

500 Includes ancillary map of the city of San Francisco.

On verso note

500 On verso: New map of South Hadley, Mass.



Access Points

- Name access
 - For map-specific information on name access, refer to Appendix A of *Cartographic materials: A manual of interpretation for AACR2, 2002 revision*
- Added entries
 - There can be many persons or corporate bodies that aid in the creation of a sheet map.
 - Follow AACR2 Rule 21.30A1 for the proper assignment of multiple added entries
- Subject access
 - Provide subject access appropriate to the work using MARC fields 6xx.



LC G-Schedule

- Atlases – class number range is G1000-G3122
- Sheet Maps – class number range is G3180-G9980
 - G3180 celestial maps
 - G3200 maps of the world
 - G3700 maps of the United States
 - G5700 maps of Europe
 - G9980 maps of unidentified places

Fourth digit in the classification number

- Determines the meaning for the entire call number:

0 or 5 General map, not topical map, e.g. California = G 4360

1 or 6 Topical map, e.g. California road map = G 4361 .P2

2 or 7 Nonpolitical geographic region, e.g. Tahoe National Forest Region= G 4362 .T16

3 or 8 County, e.g. Alpine County = G 4363 .A4

4 or 9 City, e.g. Sacramento = G 4364 .S2



Elements of an LC call number

G	Class letter (Geography)
4364	Classification number from the G schedule (a city in California)
.L8	Geographic area cutter (Los Angeles)
E2	Subject cutter (Population)
1980	Date of situation (which may or not be the same as publication)
.C5	Author cutter (or main entry)

Source: OCLC record #21318608



Helpful Resources

- OSU's Map Cataloging page:
<http://oregonstate.edu/~reese/html/tools.html>
- University at Buffalo's Map Cataloging page:
http://library.buffalo.edu/maps/mapresources/map_cat_tools.php
- Western Association of Map Libraries
<http://www.waml.org/maptools.html>
- Scale Finder (free and available for download)
http://www.bodley.ox.ac.uk/users/nnj/geo_tools.htm#sf



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