

BIBFRAME at the Library of Congress

CEAL Committee on Technical Processing
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Preparation

- Data model and vocabulary revised from BIBFRAME 1.0 to BIBFRAME 2.0
- New MARC-to-BIBFRAME data conversion specifications and conversion software
- New BIBFRAME search interface
- Updated BIBFRAME editor capabilities
- Infrastructure improvements
 - Additional servers
 - Update to database software and triplestore (MarkLogic)

Data conversion

- 18 million MARC bibliographic records from ILS database converted to BIBFRAME Works, Instances, and Items
- 1.2 million uniform title and name-title authority records converted to BIBFRAME Works
- Created
 - 19 million BIBFRAME Work descriptions
 - 23 million BIBFRAME Instance descriptions
 - 4 billion triples

Ongoing data processing

- MARC bibliographic records from the Library's ILS database are converted to BIBFRAME daily and added to the database
- Title and name-title MARC authority records are converted to BIBFRAME Works daily and added to the database
- Continuous matching and merging of new data to existing BIBFRAME work descriptions
 - Match: Discover all the Instances (manifestations) for a Work
 - Merge: Merge subjects and other Work information from instances and add them to existing Work description
 - Or create a new Work when none exists

BIBFRAME database

BIBFRAME Database

Library of Congress Metadata

Everything Title Author/Creator Subject

Filter on:

Everything Works Instances Items

Category:

Instance or Work Categories:

Everything From BF Editor
 No Merge activity RDA Cataloging Rules
 E-CIP Records Foreign IBC
 IBC Records Any 985 batch code

Work Categories:

Works that have Bibs merged on them NameTitle work
 Title Work Work from Title or NameTitle Authority
 Expression Stub Related Works

Instance categories:

Instances merged onto any Work Instances merged onto Authority Work
 Instances merged onto Bib Work

Name Subject
 LC Call Number Date Modified
 LCCN Name/Title
 Imprint

Filter on:

Everything Works Instances Items

[Along the silk road](#) (Choreographic work)

(Work from Authority)

[Ma, Yo-Yo, 1955- Silk Road journeys when strangers meet](#)

(Work from Bib)

Ma, Yo-Yo, 1955-

New York, NY : Sony Classical, p2001.

[A place of visions](#)

(Work from Editor)

[唐詩的多維視野](#)

(Instance from Editor)

[Chengdu tourist map = Chengdu dao you tu](#)

(Instance from Editor)

[China south, scale 1:3,000,000](#)

(Instance from Editor)

China south, scale 1:3,000,000

Work from Editor

Work <http://id.loc.gov/ontologies/bibframe/Work>

Title China south, scale 1:3,000,000

Note Title from panel

Genre/form <http://id.loc.gov/authorities/genreForms/gf2011026387>

Genre/form <http://id.loc.gov/authorities/genreForms/gf2011026699>

Contribution

Corporate Name <http://id.loc.gov/authorities/names/no94019409>

Role <http://id.loc.gov/vocabulary/relators/pbl>

Contribution

PersonalName <http://id.loc.gov/authorities/names/n2005000710>

Role <http://id.loc.gov/vocabulary/relators/edt>

Primary contribution

Corporate Name <http://id.loc.gov/authorities/names/nr96008517>

Role <http://id.loc.gov/vocabulary/relators/ctg>

Language <http://id.loc.gov/vocabulary/languages/eng>

Note color

Scale Scale 1:3,000,000

Note 1 cm = 30 km

Cartographic coordinates E 92°/N 20°

Cartographic coordinates E 92°/N 40°

Cartographic coordinates E 92°/N 40°

Cartographic coordinates E 124°/N 40°

Cartographic coordinates E 124°/N 20°

Topic Library of Congress subject headings

Geographic <http://id.loc.gov/authorities/subjects/sh2008114704>

LCC Classification

Classification number G7820

Has Instance <http://id.loc.gov/resources/instances/e20185861820001>

Instance <http://id.loc.gov/resources/instances/e20185861820001>

Title variation

Main title International Travel Maps, China south, scale 1:3,000,000

Title variation

Main title ITMB China South scale 1:3,000,000

Title variation

Main title China south

Variant title type Title in map area

Title China south, scale 1:3,000,000

Subtitle Hong Kong, Guangzhou, Shanghai

Note Title from panel

Parallel title proper

Main title Zhong guo nan

Note Parallel panel title

Media type <http://id.loc.gov/vocabulary/mediaTypes/n>Carrier type <http://id.loc.gov/vocabulary/carriers/nb>

LCCN 2018586182

ISBN 9781771291545

Note Insets: Hong Kong, scale 1:10,000 -- Kowloon (Hong Kong), scale 1:10,000 -- Hong Kong region, scale 60,000 -- Guangzhou regional map, scale 1:850,000 -- Guangzhou City, scale 1:15,000 -- Shanghai, scale 1:16,000.

Note Indexed.

Note At head of panel title: International Travel Maps.

Note Title from panel.

Note Title and legend in English and Chinese.

Classification 7820

Classification 7821

Creative responsibility statement Lan Joyce, editor in chief

Edition statement First edition

Mode of issuance <http://id.loc.gov/vocabulary/issuance/mono>

Publisher

Date [2016]

Place Richmond, BC.

Agent ITMB Publishing Ltd.

Copyright date © 2016

Extent 1 map



Dimensions sheet 100 x 69 cm, folded to 25 x 11 cm

Base material <http://id.loc.gov/vocabulary/mmaterial/pap>Layout <http://id.loc.gov/vocabulary/mlayout/both>

BIBFRAME Work


Creator of Work (RDA 19.2)

Primary Contribution

International Travel Maps (Firm), Cartographer  





Title Information

Work Title

China south, scale 1:3,000,000  

Form of Work

Form/Genre

Maps   Tourist maps  

(Geographic) Coverage of the Content











Geographic coverage

(Time) Coverage of the Content (RDA 7.3)

(Time) Coverage of the Content (RDA 7.3)

Coordinates of Cartographic Content (RDA 7.4)

Cartographic Coordinates





E 92°/N 40°   E 124°/N 40°   E 124°/N 20°   E 92°/N 20°   E 92°/N 40°  

Intended Audience (RDA 7.7)

Intended Audience (RDA 7.7)

Contribution (RDA 19.3 and 20.2)

Contribution

Joyce, Lan, Editor   ITMB Publishing Ltd., Publisher  

Subject of the Work (RDA Chapter 23)

Subject of Work

subject  

Notes about the Work

Note

Classification numbers

Library of Congress Classification Dewey Decimal Classification

G7820  

BIBFRAME Instance

Instance Of BIBFRAME Work

Title Information

Instance Title	Variant Title	Parallel Title
China south, scale 1:3,000,000		
International Travel Maps, China south, scale 1:3,000,000		
China south	ITMB China South scale 1:3,000,000	
Zhong guo nan		

Statement of Responsibility Relating to Title Proper (RDA 2.4.2)

Statement of Responsibility Relating to Title Proper (RDA) +

Lan Joyce, editor in chief

Edition Statement (RDA 2.5)

Edition Statement (RDA 2.5) +

First edition

Publication, Distribution, Manufacture Statements

Publication Activity Manufacture Activity

Distribution Activity

ITMB Publishing Ltd.: Richmond, BC. , [2016]

Copyright Date (RDA 2.11)

Copyright Date (RDA 2.11) +

© 2016

Series Statement

Series Statement

Mode of Issuance (RDA 2.13)

Mode of Issuance (RDA 2.13)

single unit

Identifier for the Manifestation

ISBN	Other Identifier	Local system number
9781771291545		

Notes about the Instance

Note

Title and legend in English and Chinese.

Title from panel.

At head of panel title: International Travel Maps.

Indexed.

Insets: Hong Kong, scale 1:10,000 -- Kowloon (Hong Kong), ...

Media type (RDA 3.2) Media type (RDA 3.2)

unmediated

Carrier Type (RDA 3.3) Carrier Type (RDA 3.3)

sheet

Extent Extent

1 map

Dimensions (RDA 3.5) Dimensions (RDA 3.5) +

sheet 100 x 69 cm, folded to 25 x 11 cm

Base Material (RDA 3.6) Base Material (RDA 3.6)

paper

Layout (RDA 3.11) Layout (RDA 3.11)

both sides

Polarity (RDA 3.14) Polarity (RDA 3.14)

Digital File Characteristic (RDA 3.19) Digital characteristics

Uniform Resource Locator (RDA 4.6) Uniform Resource Locator (RDA 4.6) +

Geographic Classification (MARC 052) Geographic Classification

7820 7821

Contributors (RDA 21.1) Contribution

LC Control Number for the Manifestation (RDA 2.15) LCCN

2018586182

Related Manifestation Related Instance

Administrative Metadata for Instance BIBFRAME 2.0 Admin Metadata

adminMetadata

Has Item

BIBFRAME editor

Create Resource

Monograph ▾

Notated Music ▾

Serial ▾

Cartographic ▾

Sound Recording: Audio CD ▾

Sound Recording: Audio CD-R ▾

Sound Recording: Analog ▾

Moving Image: BluRay DVD ▾

Moving Image: 35mm Feature Film ▾

Prints and Photographs ▾

Rare Materials ▾

Create Resource

Monograph ▾

Instance

Work

BIBFRAME editor

Language of Expression (RDA 6.11)

englisch

Language of Content (RDA 7.12)

languages

Script (RDA 7.13.2)

Englisch

English

Illustrative Content (RDA 7.15)

English, Middle (1100-1500)

English, Old (ca. 450-1100)

Broadcast Standard

×

Broadcast Standard

Broadcast
Standard (RDA
3.18.3)

Broadcast Standard (RDA 3.18.3)

Details of
Broadcast
Standard

mbroadstd

HDTV

NTSC

PAL

SECAM

Cancel

Save changes

BIBFRAME editor

Subject of Work ×

Subject of Work

Search LCSH/LCNAF

Search Subject Components

Input Subject + Subdivision string

Subject source

LCSH

- Library of Congress** Gershwin Prize for Popular Song
- Library of Congress** James Madison Memorial Building (Washington, D.C.)
- Library of Congress** Mass Book Deacidification Facility (Md.)
- Library of Congress** Thomas Jefferson Building (Washington, D.C.)

LCNAF

- Library of Congress** Hispanic Cultural Society

+

ges

RDA 7.9) Dissertation

What's next?

- Continue to evaluate and adjust the matching and merging of data in the BIBFRAME database
- Continue to adjust BIBFRAME editor profiles to meet the needs of the catalogers and to include upcoming RDA 3R changes
- Updated data conversion specifications
- Offer download of LC's BIBFRAME file for others to explore
- Mapping from BIBFRAME to MARC

Resources

- See how a MARC record looks in BIBFRAME RDF
- <http://id.loc.gov/tools/bibframe/compare>

BIBFRAME Comparison Tool Compare MARCXML to BIBFRAME2

Identifier Bib ID LCCN Serialization Turtle RDF XML

 Lookup Name URIs No Yes

MARC

```

086 0 $a-
100 1 $aMiranda, Lin-Manuel,$d1980-$ecomposer,$elibrettist,$elyricist,$eperformer.
245 10 $aHamilton :$boriginal Broadway cast recording /$c[book, music and lyrics] by Lin-Manuel Miranda.
250 $a[Explicit version].
264 1 $aNew York, NY :$bAtlantic Recording Corporation,$c[2015]
264 4 $c@2015
300 $a2 audio discs (142 min.) :$bdigital, stereo ;$c4 3/4 in.
306 $a022200
336 $aperformed music$bprm$2rdacontent
337 $aaudio$bbs$2rdamedia
338 $aaudio disc$bbs$2rdacarrier
340 $b4 3/4 in.
344 $adigital$boptical$c1.4 m/s$gstereo$2rda
347 $aaudio file$bCD audio$2rda
500 $aComposed by Lin-Manuel Miranda.
500 $aInspired by the book Alexander Hamilton by Ron Chernow.
500 $aTitle from disc label.
500 $a2 booklets with lyrics and full credits (34, 30 unnumbered pages : illustrations ; 12 cm) in container.
505 00 $gDisc 1.$tAct I :$tAlexander Hamilton --$tAaron Burr, sir --$tMy shot --$tThe story of tonight --$tThe Schu
yler sisters --$tFarmer refuted --$tYou'll be back --$tRight hand man --$tA winter's ball --$tHelpless --$tSatisfie
d --$tThe story of tonight (reprise) --$tWait
$tThat would be enough --$tGuns and ships --$t
n) --$tWhat comes next? --$tDear Theodosia --$

```

BIBFRAME (Turtle)

```

<http://bibframe.example.org/19537131#Instance> a bf:Instance ;
  rdfs:label "Hamilton : original Broadway cast recording /" ;
  bf:baseMaterial <http://id.loc.gov/vocabulary/mmaterail/pla> ;
  bf:carrier <http://id.loc.gov/vocabulary/carriers/sd> ;
  bf:classification [ a bf:Classification ;
    rdfs:label "-" ;
    bf:source [ a bf:Source ;
      rdfs:label "sudocs" ] ] ;
  bf:copyrightDate "2015"^^<http://id.loc.gov/datatypes/edtf>,
    "02015" ;
  bf:digitalCharacteristic [ a bf:EncodingFormat ;
    rdfs:label "CD audio" ;
    bf:source [ a bf:Source ;
      rdfs:label "rda" ] ],
    [ a bf:FileType ;
    rdfs:label "audio file" ;
    bf:source [ a bf:Source ;
      rdfs:label "rda" ] ] ] ;
  bf:dimensions "4 3/4 in.",
    "4 3/4 in. or 12 cm." ;
  bf:duration "022200" ;
  bf:editionStatement "[Explicit version]" ;
  bf:emulsion <http://id.loc.gov/vocabulary/mmaterail/mtl> ;

```



Resources

- Components available for the community to explore
 - **BIBFRAME vocabulary**
 - <http://www.loc.gov/bibframe/docs/index.html>
 - **MARC to BIBFRAME conversion specifications (Bib and Authority-title)**
 - <http://www.loc.gov/bibframe/mtbf>
 - **MARC to BIBFRAME conversion programs (Bib and Authority-title)**
 - <https://github.com/lcnetdev/marc2bibframe2>
 - **MARC to BIBFRAME comparison viewer (Bib and Authority-title)**
 - <http://id.loc.gov/tools/bibframe/compare>

Thank you

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Network Development and MARC Standards Office

Library of Congress

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