

# Cartographic Extension

## About the Cartographic Extension

Harvard University is leading the development of an extension to BIBFRAME to describe cartographic resources including printed maps, atlases, and digital geospatial datasets.

**Note:** Documentation and ontology files being developed to support the Cartographic Materials extension project are available at the [LD4P Cartographic Materials GitHub repository](#)

[Harvard Project Proposal](#)

For questions or comments, please contact Marc McGee, Geospatial Metadata Librarian, [mmcgee \(at\) fas \(dot\) harvard \(dot\) edu](mailto:mmcgee@fas.harvard.edu), or submit issues via [https://github.com/LD4P/Cartographic\\_Materials](https://github.com/LD4P/Cartographic_Materials)

## Deliverables

- BIBFRAME extension profile for cartographic resources
- Set of published BIBFRAME descriptions for a variety of cartographic resource types
- Written evaluation of the project and set of recommendations for future research and development
- Presentation of project findings to appropriate library cartographic materials and linked data communities.

## Current Activities

*Last updated: 7/17/2018*

### Analysis/Modeling

- Finalize supporting documentation for the Geospatial and Cartographic Resource Ontology, including recommendation papers and graphic models (July 2018)
- ~~Create a Geospatial and Cartographic Resources Ontology (GCRO) SHACL application profile (deferred to future date)~~

### Production Cataloging

- ~~Test cataloging of a selection of geospatial and cartographic resources using the GCRO application profile in the Harvard geospatial metadata instance of VitoLib (deferred to future date)~~

### Community Engagement

- ~~Biweekly standing meeting of the Linked Data for Libraries Cartographic Materials Working Group, Thursdays 2-3p ET. (Working Group on indefinite hiatus as of 7/1/2018)~~

[See Harvard LD4P wiki for more documents](#)

## Team

### LD4P Cartographic Materials Working Group

Marc McGee (coordinator) (Harvard)  
Craig Thomas (Harvard)  
Iris Taylor (Library of Congress)  
Kathy Weimer (Rice)  
Kim Durante (Stanford)  
Louise Ratliff (UCLA)  
Megan Rush (East View Geospatial)  
Min Zhang (Library of Congress)  
Seanna Tsung (Library of Congress)  
Steven Folsom (Cornell, former member)  
Tammy Wong (Library of Congress)  
Tim Kiser (Michigan State)

## Completed Work

*Last updated: 7/13/2018*

### Analysis/Modeling

- Surveyed [existing linked open data efforts](#) in the library and geospatial domains (Aug. 2016).
- Held a 2-day in-person Cartographic Materials Working Group ontology sprint modeling meeting, Harvard Library, Sept. 19-20, 2016.
- Compiled initial set of target [use cases](#) for cartographic metadata (Nov. 2016).
- Finished draft models for prioritized Geospatial and Cartographic Resources Ontology concept extension areas:
  - [Projection](#) (*draft rdf examples*)
  - [Spatial Extent - Bounding Box Coordinates](#) (*draft rdf examples*)
  - [Scale](#) (*draft rdf examples*)
  - [Relief](#) (*draft rdf examples*)
  - [Types of Cartographic Resources](#) (*graphic model*)
  - [Prime Meridians](#) (*graphic model*)
- Created Geospatial and Cartographic Resources Ontology (GCRO) OWL file
  - [GCRO OWL file](#) (*Beta version, April 2018*)
  - [GCRO in Bibliportal](#)
  - [GCRO and LD4L/P Cartographic Extension project files](#)

### Community Engagement

#### *Presentations*

[Linked Open Data Modeling for Library Cartographic Resources](#) (Kimberly Durante, Katherine Hart Weimer and Marc McGee; poster for American Association of Geographers Annual Meeting, April 2016)

[Geoinformation in Digital Libraries and Linked Data](#) (Katherine Hart Weimer; presentation for Aplace4places, DH2016 pre-conference workshop, July 2016)

[Linked Data Description of Cartographic Resources](#) (Marc McGee, ALCTS Webinar, May 2, 2018) [[slides](#)]

[LD4P + LD4L Labs projects for geospatial and cartographic resources + moving image materials at Harvard](#) (Marc McGee and Christine Fernsebner Eslao; presentation for IGELU-ELUNA Linked Open Data Working Group Show & Tell, July 10, 2018) [[slides](#)]

#### *Community updates*

ALCTS-CaMMS MAGIRT Cartographic Resources Cataloging Interest Group meeting

Project updates ALA Annual 2016, 2017, [2018](#)  
Project updates ALA Midwinter 2017, [2018](#)

#### *Papers*

[Toward a Linked Data Model for Describing Cartographic Resources](#) [article] (Marc McGee, Harvard Library, Kim Durante, Stanford University, and Katherine Hart Weimer, Rice University, Journal of Map and Geography Libraries, May 11, 2017)

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