# **African Set Maps Project** Library of Congress

March 30, 2010



## **Project Scope**

Library of Congress, Library Services, Geography & Map Division awarded \$240,240 grant from Council on Library and Information Resources (CLIR)

Catalog approximately 1,800 African multi-sheet map sets and inventory 125,000 map sheets. Provide access through a web portal using Google Earth.

The collection includes 19<sup>th</sup> century to present large scale mapping of Africa by various colonial powers. The largest volume and most expansive collection of African set maps.

Project team of professionals in various disciplines: Cataloging, Collections Management, Digital, Reference, Information Technology & Policy, Technicians, and Interns.

Project span: 2009 – 2011

January 14, 2009 kick-off.

## **Cataloging Overview**

- Historically, to view a sheet by sheet index of any given set of maps, a patron would most likely be required to be physically present in the Reading Room in the Geography and Map Division.
- The CLIR Project in the Geography and Map Division is endeavoring to furnish a sheet by sheet visual index of each African map set, online, in the public domain, for free, through Google Earth.
- To this end, Cataloging was charged with accounting for map sets of Africa in the more traditional manner of Machine Readable Cataloging.
- Accounting for these sets of maps with a MARC record is important because, in the event a patron gains interested in material they initially become aware of online -- through the visual index -- this material can easily be identified in the Voyager database, the physical location of the material can be pinpointed in the G&M collection, and the material can be served, as directly as possible, upon request of the patron, by the G&M Reading Room.
- Cataloging works its magic inside well-defined constructs, that is, we did not invent Machine Readable Cataloging or the Anglo American Cataloging Rules just for the CLIR Project.
- However, it is worth noting that all other aspects of the CLIR Project in the Geography and Map Division are either pieced together from various technologies in a unique way or entirely built from scratch.



### Innovations

- 20% of maps required research to determine what type of coordinate system was employed.
- In some cases simple research did not resolve the issue; as result, staff adopted innovative approaches to resolve conversion problems.
- These included: mathematical equations; a method of reverse triangulation using Google Earth; employing geo-referencing tools to help convert local grid systems.
- Tools and
  resources used in
  this process
  included:
  academic
  journals; Google
  Earth; georeferencing
  resources; online
  mathematical
  tools; etc.



## **Inventory Database**

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	Sheet Map Inventory										
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	3	2b	Bassins du Haut-Nil & du Moyen-Cong			Ν	8d	22d	4d	25d	
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	5	3b	Bassins du Haut-Nil & du Moyen-Cong			N	8d	25d	4d	28d 🚽	
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Step 2: Sheet level information entered, including: sheet number, name, date, edition, where or not there is color and coordinates.

Step 3



## **Google Earth Display**



KML link is then added to Google Earth as a network link. The geographic area is then highlighted. Thus, the area is displayed as it presently exist.

# **Geospatial Search Portal**



