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## **Coronelli globe in Healpix**

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1 CDS

2 UDS, Collections et inventaire

3 UDS, Jardin des Sciences

4 UDS, Planétarium de Strasbourg

Education session

16 May 2013



# Context

- In France, we have each year a week-end named « Journées du patrimoine » in September.
- Museums are free and several monuments or other “cultural or historical places of interest” usually closed to the public are opened during these days.
- The Observatory of Strasbourg is visited by a huge number of people during these days and the idea is to add some animations to the visit.
- This year it should be the presentation of a Coronelli globe
  - It is not easy to show one of the globes...
  - But it is possible to show a virtual one in a tool like Aladin (and let young people play with it through a multitouch screen).

# Which Coronelli globe ?

- The Strasbourg Observatory has a Coronelli globe
  - “Built” in 1693, diameter 108 cm
  - Some parts are damaged (especially the fish representing the constellation Doradus in the lower part of Southern Sector 3).
  - It is not easy to take it and to scan it ...

Credits : The Multinational History of Strasbourg  
Astronomical Observatory, Springer 2005



# In the national collections

- The « Réunion des musées nationaux (de France) » has original gores and it is possible to buy the rights to use the corresponding images during a limited time.
- It is possible to convert the gores into HEALPix images and to show for example a comparison with modern surveys.

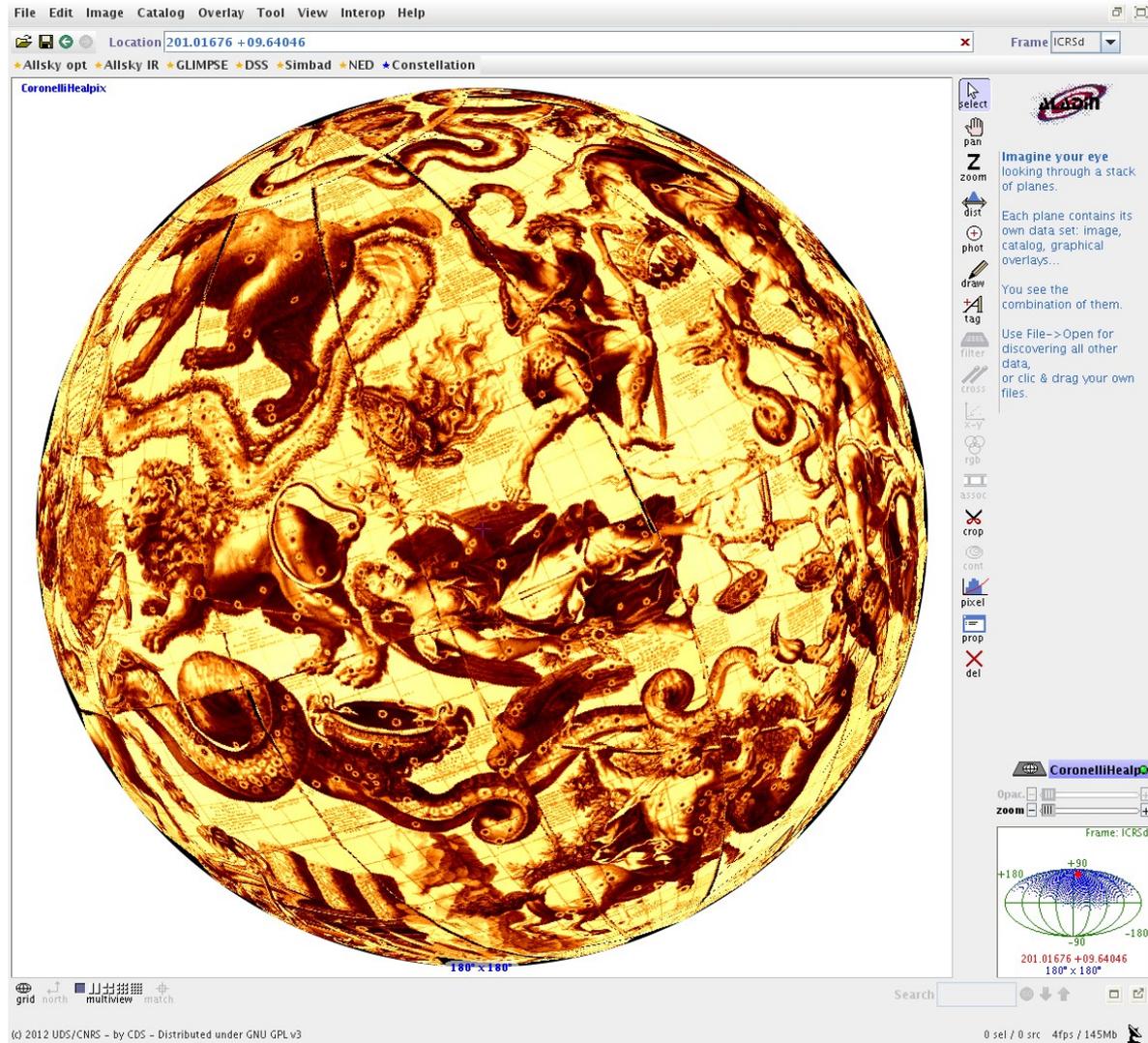


# Coronelli globe gores

- The Coronelli globe is divided in 26 parts (or « gores »), 12 per hemisphere plus 2 for the poles.
- Samples :



# Prototype of the expected rendering





# Status

- It is ongoing but it is not easy to negotiate the use of the gore sheets for a few days event even for public outreach.