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Coronelli globe in Healpix

André Schaaff¹, Sébastien Derriere¹, Delphine Issenmann², Benjamin Rota³, Milène Wendling⁴,

¹ CDS

² UDS, Collection 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” which are 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 University of Strasbourg 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 gore sheets and it is possible to buy the right to use the corresponding images during a limited time.
- It is possible to convert the gore sheets into HEALPix images and to show for example a comparison with true surveys

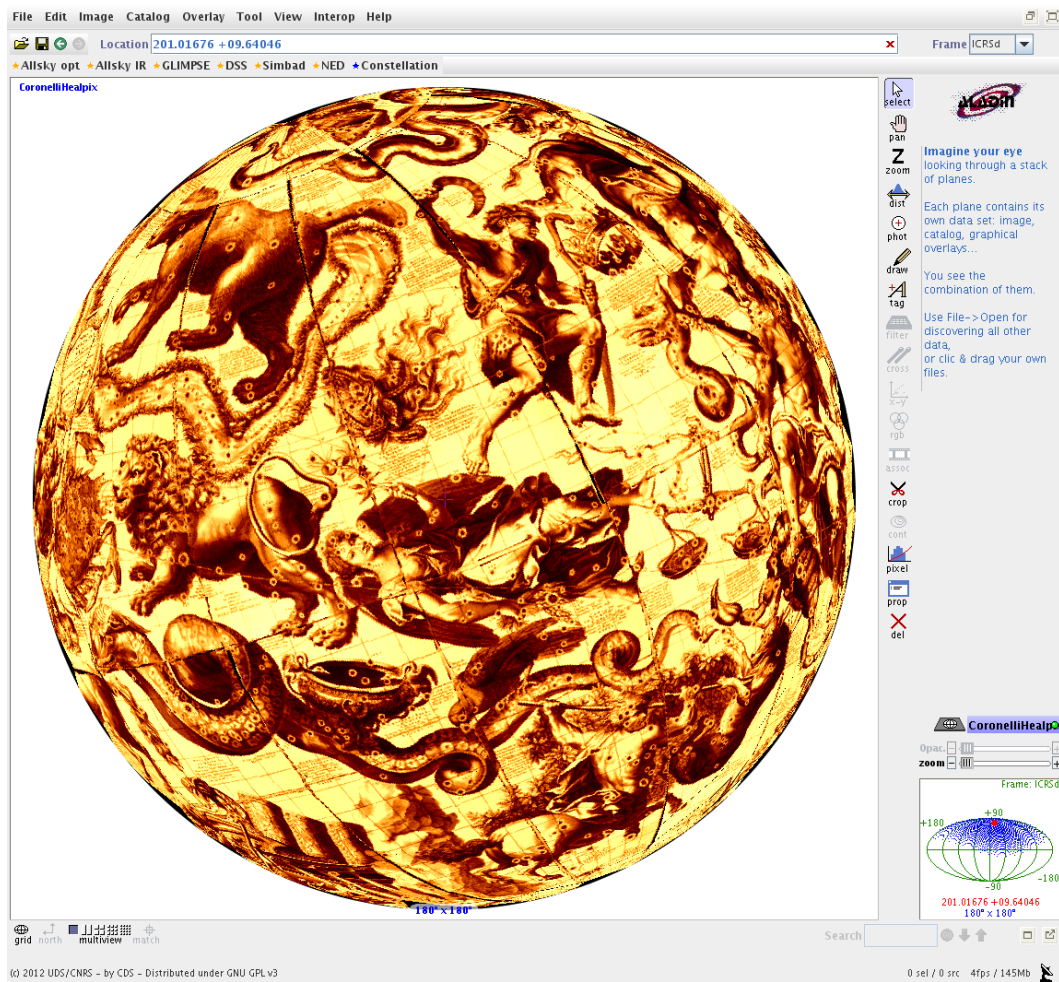


Coronelli globe gores

- The concerned 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