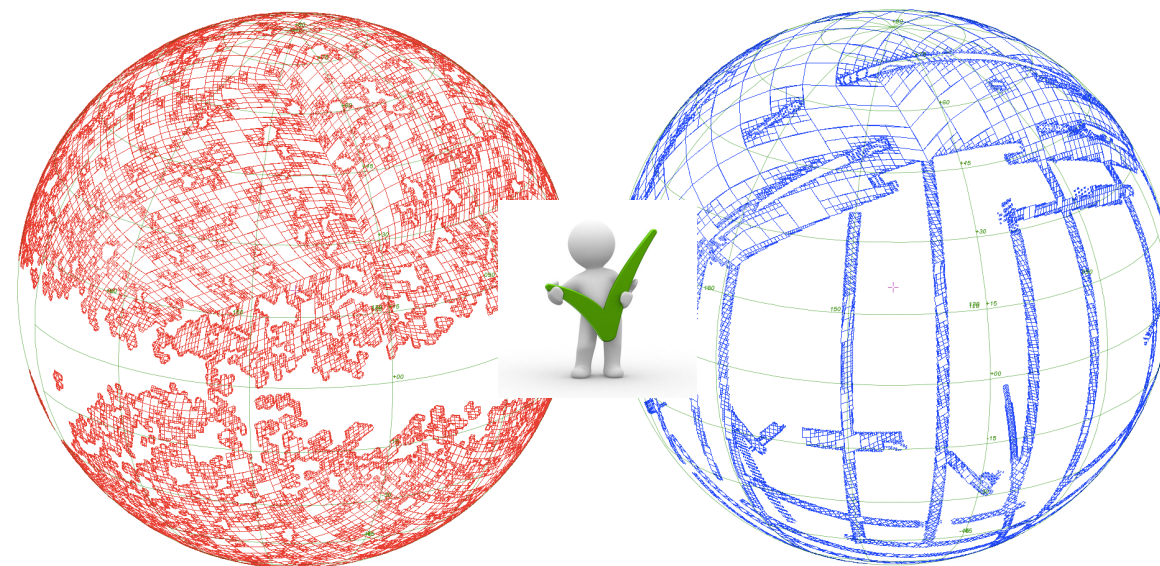


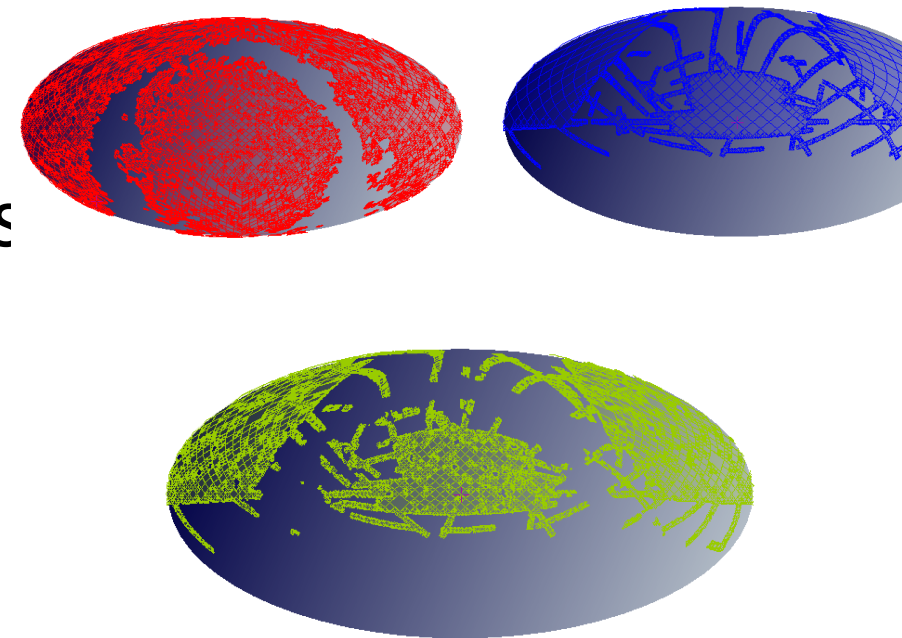
MOClint, a validation tool for Multi-Order Coverage maps (MOC)

Thomas Boch
Pierre Fernique



□ Context

- MOC: **M**ulti-**O**rder **C**overage maps
 - HEALPix-based description of sky regions
 - Allows for fast comparison of dataset coverages
 - IVOA REC since June 2014
- MOC in registry
 - 12,000 VizieR catalogues with positions have their MOC described



□ MOClint - Service

- validation of remote MOC (via URL) or local files
- performs over 30 tests
 - validity of FITS file
 - compulsory keywords
 - sensible values for keywords
 - well-formedness of MOC
 - ...
- Output: HTML report or JSON
- <http://alasky.unistra.fr/MocServer/lint>

□ MOCLint - Java library

- JAR, source code and examples available at:
<http://wiki.ivoa.net/twiki/bin/view/IVOA/MocInfo>
 - Part of the larger Moc library (GPL3)
- Class `cds.moc.examples.MocLint`

□ Lessons learnt

Testing our existing MOC against MOClint

- found many small errors or omissions
- errors in source code mainly due to updates since pre-REC versions of the document
- validator quite useful, complements reference implementation

□ General questions on validators

- Schema for generic output format?
 - validation status
 - errors reporting
- blurry boundary between *validation=OK* and *validation=Warning* (partial compliance)
- validators as registered services?