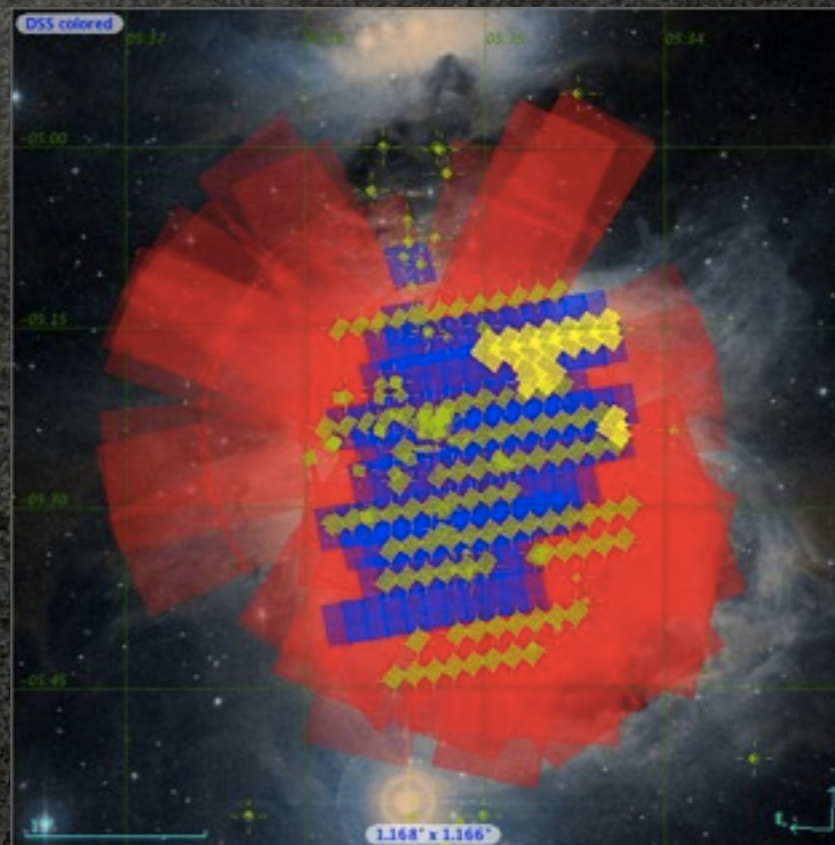


Footprints in Aladin

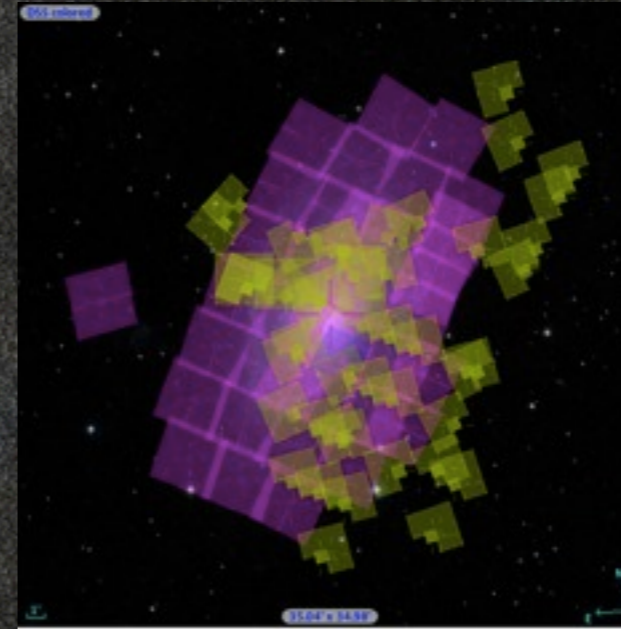
Thomas Boch, Pierre Fernique [CDS]

IVOA Interop Urbana Champaign, May 2012

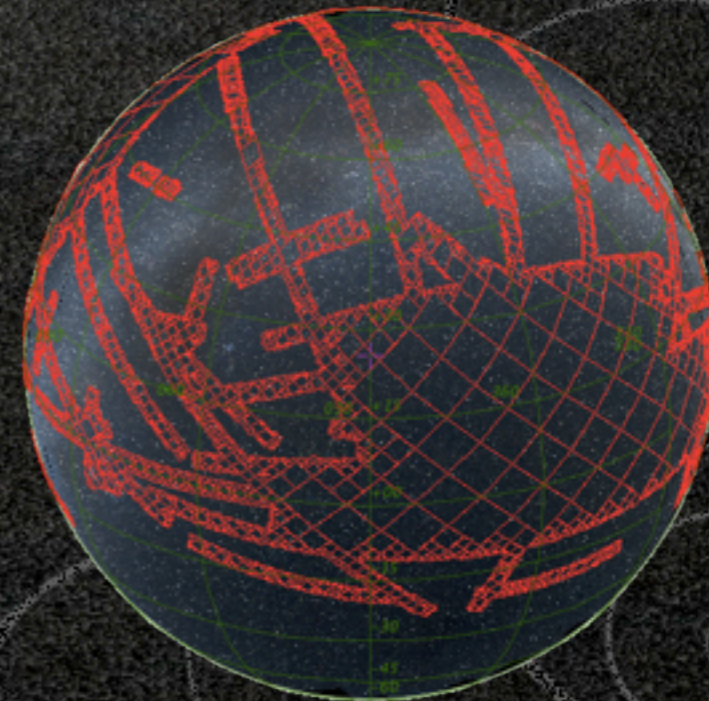


Outline

1. *Observation-level footprints:*
Support for STC-S in SIAP
query response



2. *Global footprints of datasets:*
MOC (Multi-Order Coverage maps)



STC-S footprints

STC-S footprints

- **What was done in Aladin**
 - partial support of STC-S in SIAP query responses
 - currently only **Polygons** in *ICRS* or *J2000* frame
 - soon Circle and Union of Polygon/Circle
 - available in Aladin beta version
 - demo

STC-S footprints

- **What was done in Aladin**

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- **What we should agree on at this meeting**

- unambiguous way to designate the field holding the STC-S footprint in S*AP protocol
- currently, each service providing STC-S description uses a different way

STC-S footprints

Service 1 : <FIELD name="position_bounds" unit="deg"
xtype="adql:REGION"
datatype="char" arraysize="*" />

Service 2 : <FIELD name="stcs" datatype="char"
ucd="phys.area;obs.field" unit="deg"
arraysize="*" />

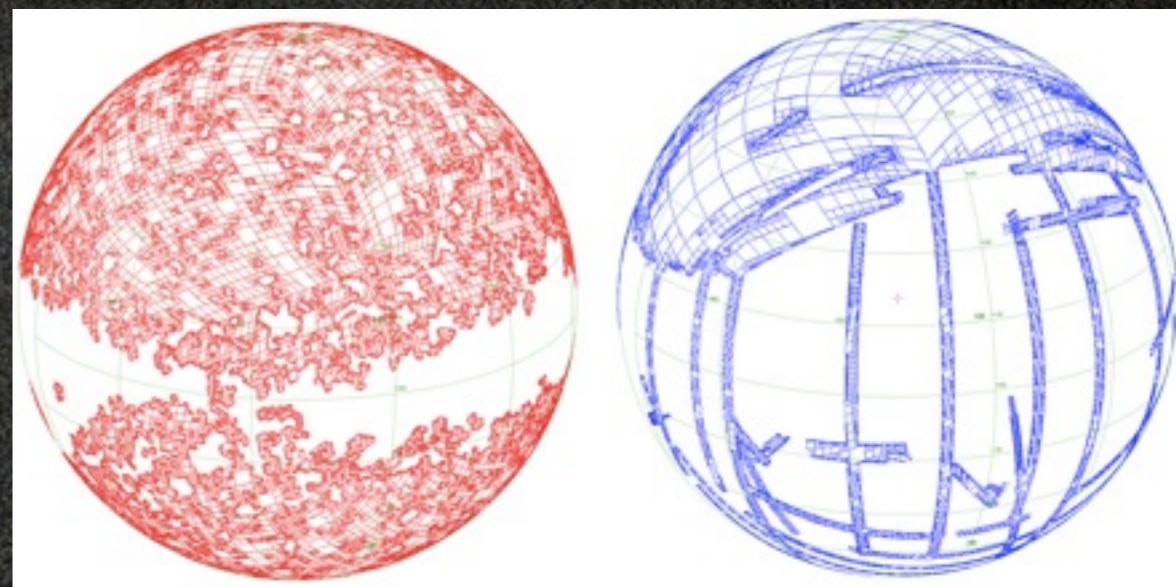
Service 3 : <FIELD ID="regionSTCS" name="regionSTCS"
datatype="char"
arraysize="*" />

nt in S*AP

t way

MOC (1/2)

- What is a MOC ? (Multi Order Coverage map)
 - Simple and efficient method to describe and compare dataset coverages
 - Based on HEALPix tessellation
- Use cases
 - Visualization of coverage
 - Comparison of coverages (eg *common intersection between n catalogues and m images surveys*)
 - Remote cross-match (*where will I find potential counterparts ?*)
 - Multi-service positional search



MOC (2/2)

- Status
 - IVOA note published
<http://ivoa.net/Documents/Notes/MOC/>
 - Java MOC library [available](#)
 - Tools to generate MOCs
 - implementation in Aladin (visualization)
and in TOPCAT (multicone search)
 - MOCs for VizieR tables available at
<http://alasky.u-strasbg.fr/footprints/tables/vizier/>
 - MOC demonstrator
<http://alasky.u-strasbg.fr/MocServer/>
- See [presentation](#) at Apps session for more details