

DS4

Stage 04 CDS plans

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On behalf of CDS DS4 team

Outline – list of topics

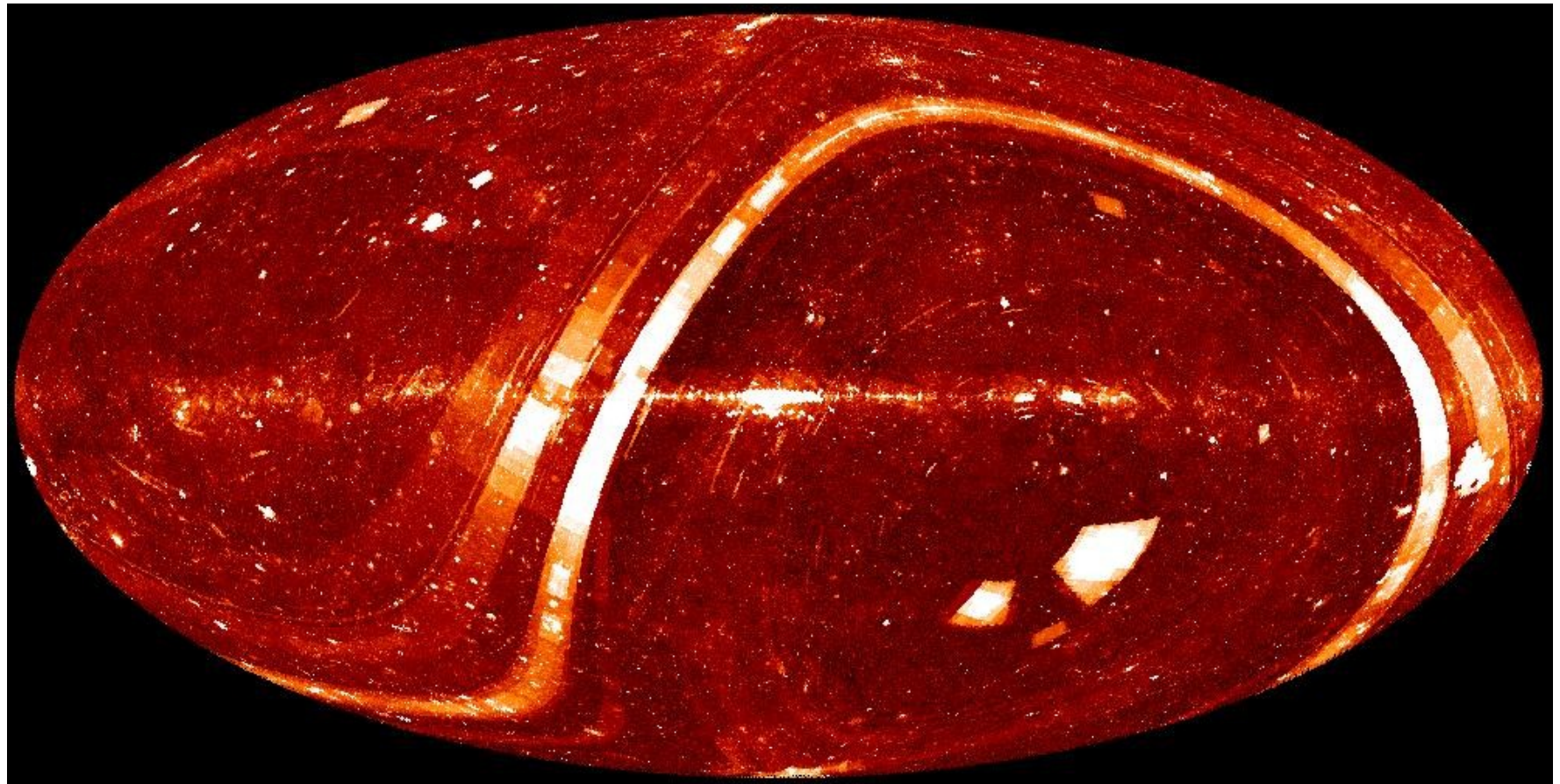
- Field of View editor (follow-up)
- Positional index in VizieR (follow-up)
- Cross-match Web Service (follow-up)
- Managing data staging in Aladin
- WCS information in JPEG header
- (Semi-)automatic astrometric (re)calibration

Field of View editor (follow-up)

- People have shown interest in our Simple Footprint Description
 - Presentations
 - Demos
- Hard point : description of FoV in XML/VOTable for 'my' instrument to be created 'by hand'
 - Painful (need to read documentation carefully)
 - Error-prone
- --> develop a graphical FoV editor
 - Will stimulate and facilitate take-up of footprint description format

Positional index for VizieR (follow-up)

- On-going work



Cross-match Web Service

- Offer positional cross-match tools presently available in Aladin as Web Services
 - Increase visibility for users
 - More flexible to be used by external softwares
- Launch by end 2006

Asynchronous services in Aladin

- Use case : managing data not immediately available (response time > 60sec)
- Asynchronous services/Data staging
 - Long-running jobs
 - Services generating multiple products
 - e.g: image processing services (AIDA)
- 'Shopping basket' analogy
- Links with VOSpace/VOStore (DS3)

WCS information in JPEG headers

- Study the possibility of writing WCS information in JPEG headers
- Motivation
 - Size (wrt. FITS) : JPEG quality often sufficient for a quick-look
 - Keeping astrometry + data together
- Implementation
 - in the Aladin image server (will produce those images)
 - in Aladin client (will consume those images)

(Semi-)automatic astrometric (re)calibration

- Use case :
 - Automatically calibrate an image using a reference image and/or catalogue of the same sky region
- Add to existing recalibration methods (WCS headers, parameters, matching stars), a « best guess » solution
- Test method using:
 - Source extraction
 - Multiple pairings
 - Chi2 minimization