

WSRT Online interfaces

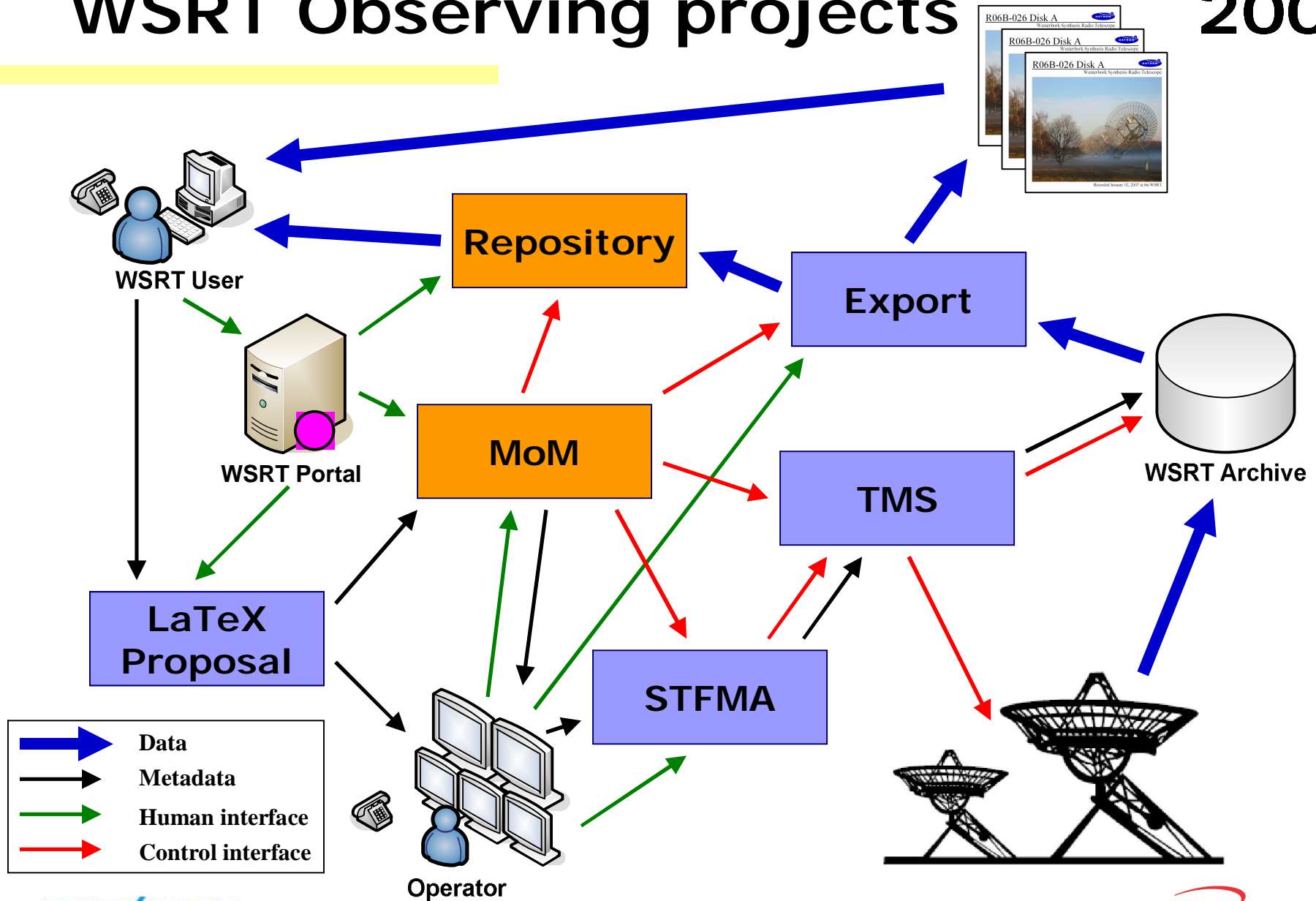


Motivation

- ◆ Time (& technology) moves on
 - ⊕ Gbps connections now readily available
 - ⊕ WSRT archive fully disk based
- ◆ Beginning to End support WSRT
 - ⊕ Improve user interaction & involvement
 - ⊕ Track progress of projects
- ◆ Joint WSRT – LOFAR operations
 - ⊕ Tasks operators & support personnel have increased
 - ⊕ Enable WSRT users to take more responsibility themselves

WSRT Observing projects

2008



Proposal preparation (NorthStar)

WSRT Proposal

Applicants | Justification | **Observing Request** | Additional issues

Field	RA	Dec	Epoch	Exposure (hrs.)	Array Conf.	Receiver
			J2000	0.00		

Specify a new target/observation

hours requested this semester (incl. cal.):

minimum allocation this semester (incl. cal.):

Is this a long term project? : Yes No

Assess as Large Proposal? : Yes No

overall scheduling requirements :

overall scheduling preferences :

Save and Continue | Save and Preview | Save and Exit | Quit without save

WSRT Observation

WSRT User Guide | Help

Is this a Position Mosaic? : Yes No

Field name : NB: proposers should check coordinates

RightAscension : hh:mm[:ss:ss]

Declination : [+|-]dd:mm[:ss.s]

Epoch :

Total duration in hours : Need help : [Time exposure calculator](#)

Array config :

Required Scheduling constraints :

Preferred Scheduling constraints :

Observing Band/Receiver :

Backend :

Choose backend :

Simple Continuum:


Polarisation Products :


Ok | Cancel

NorthStar version v3.2.7b (2008-02-06)


Proposal assessment (NS-Review)

Overview







 [My Account](#)

[Manage index](#)



 [Logout](#)

Show finised Review Processes : Yes No



Manage review processes:

Review Process	Status	Description	Chair	Telescopes		
NL-PC	active	NL-PC review process for semester 08B	Verheijen, Marc	WSRT, WHT, INT, JCMT	 Manage	 View ratings
ITAG	active	ITAG review process for semester 08B JCMT	Stevens, Dr Jason	JCMT	 Manage	 View ratings

Coordinate Science Reviews:

Review Process	Status	Description	Chair	Telescopes	
ITAG	active	ITAG review process for semester 08B JCMT	Stevens, Dr Jason	JCMT	 Coordinate
NL-PC	active	NL-PC review process for semester 08B	Verheijen, Marc	JCMT, WSRT, WHT, INT	 Coordinate

Coordinate Technical Reviews:

Review Process	Status	Description	Chair	Telescopes	
ITAG	active	ITAG review process for semester 08B JCMT	Stevens, Dr Jason	JCMT	 Coordinate
NL-PC	active	NL-PC review process for semester 08B	Verheijen, Marc	JCMT, WSRT, WHT, INT	 Coordinate

NorthStar Review version v1.2.3 (2008-04-02)

Management of Measurements (MoM)

- ◆ Manages WSRT observation processes
- ◆ Organize & structure projects
 - ⊕ Project
 - ⊕ Observation
 - ⊕ Measurement
 - Target, Calibration
 - ⊕ Export
- ◆ Communication & Status tracking

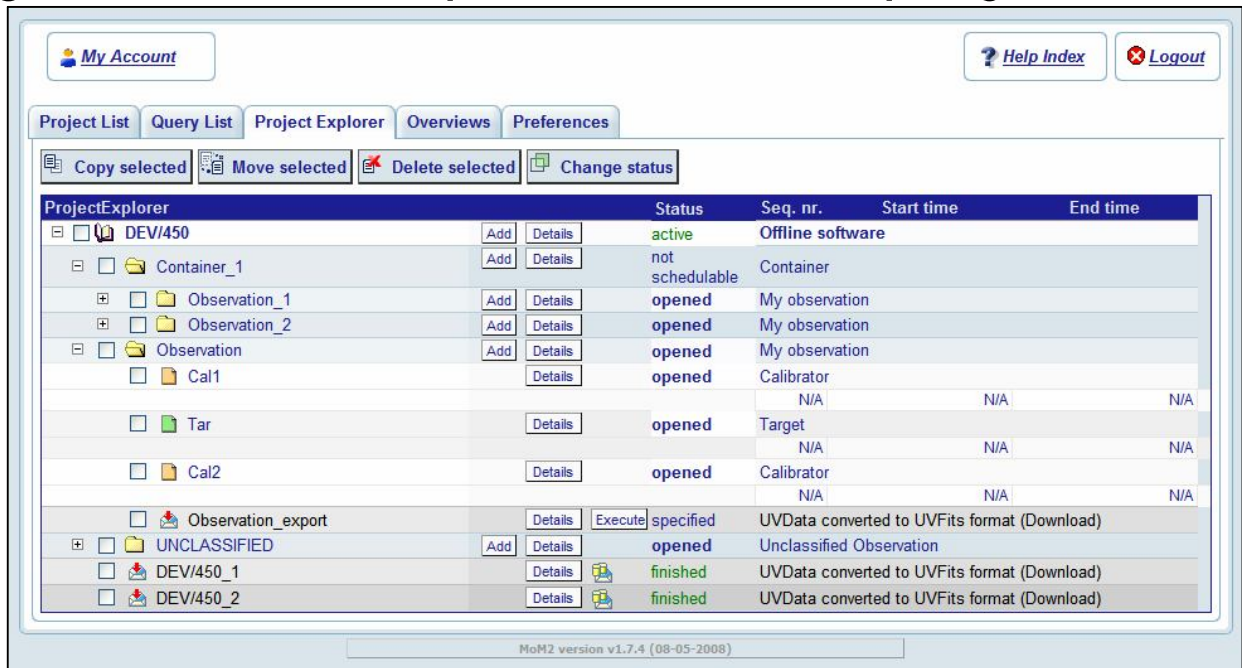
MoM Concepts

- [MoM Documentation Main page](#) -

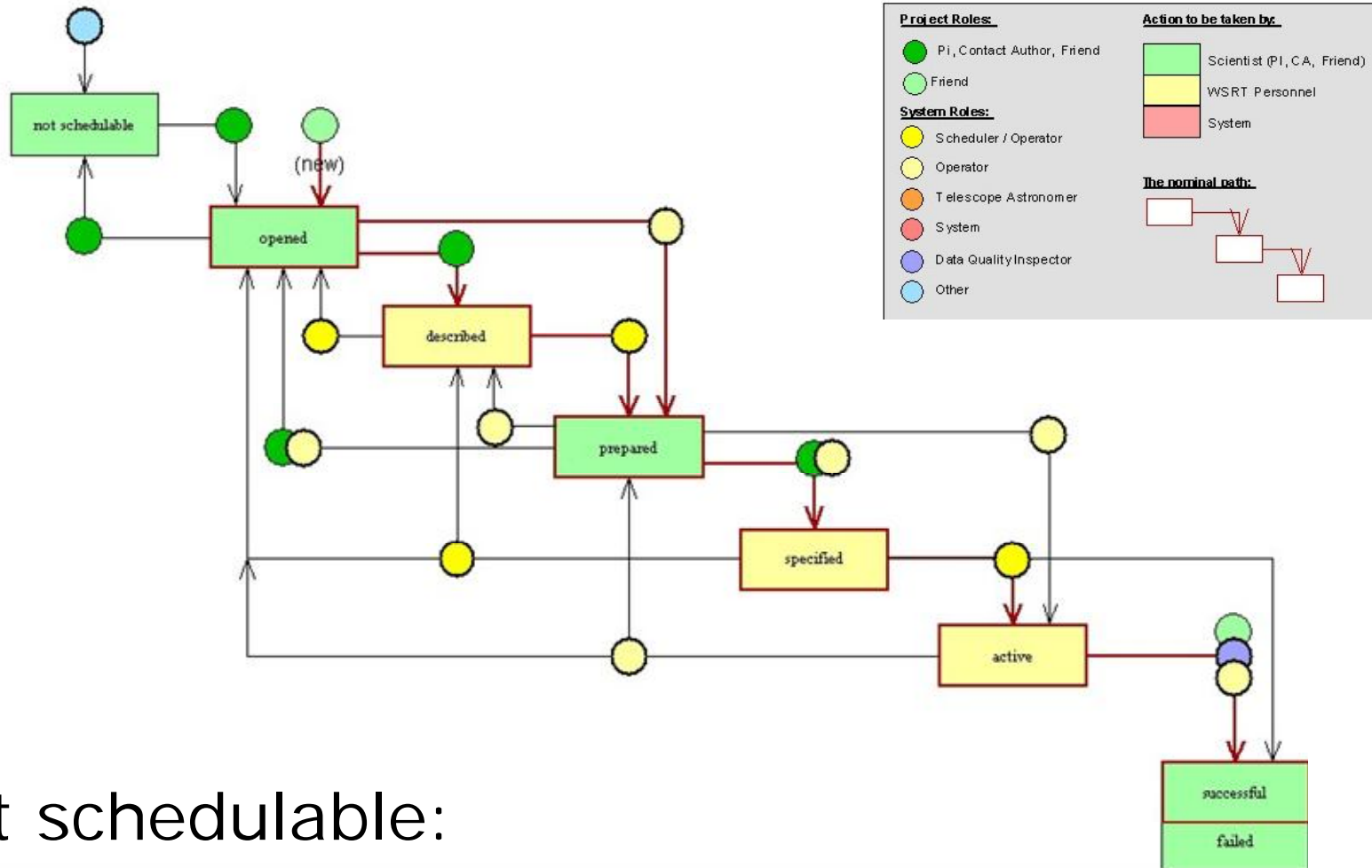
- MoM items
 - [Project](#)
 - [Observation](#)
 - Measurements
 - [Target](#)
 - [Calibration](#)
 - [TuneUp](#)
 - [Miscellaneous](#)
 - [Export](#)
- Dataproducts
 - [Proposal Document](#)
 - [Specification of Measurement](#)
 - [Observation specification reference](#)
 - [Administration of Measurement](#)
 - [Inspection Report](#)
 - [UV Data](#)
 - [Upload](#)
 - [Export Products](#)
- [Remarks](#)
 - [Specification Remark](#)
 - [Scheduling Remark](#)
 - [General Remark](#)
 - [Inspection Remark](#)
- [Statusses](#)

MoM: Structuring a project

- ◆ Initial setup based on proposal
- ◆ Tips & best practices:
 - ⊕ If initial setup not appropriate: Create a template
 - ⊕ Templates may (also) be copied to other projects
 - ⊕ Multiple level observations only for large projects
 - ⊕ Create Export
 - Few: Project
 - Many: Observation



MoM: Observation life cycle



- ◆ Not schedulable:
use for 'container' observations

MoM: New/changed specification

- ◆ Refer to standard setups if appropriate
- ◆ Add specification & scheduling info at the highest applicable level
 - ⊕ project, observation, measurement
 - ⊕ Interpretation by operator:
 - Lower levels have precedence
 - Later remarks have precedence

Set-up code	C-3.6cm	C-6cm	C-6cm(G)	C-13cm	C-18cm	C-21cm(G)	C-21cm	C-Low_Lband	C-24cm	C-UHFhigh	C-49cm	C-92cm	C-U
STFMA Name	3.6cm	6cm	6cm(G)	13cm	18cm	21cm(G)	21cm	Low_Lband	24cm	UHFhigh	49cm	92cm	U
B0	8400	4838	4838.000	2210.000	1650	1450	1450	1255	1160	805	604.25	376.25	27
B1	8418	4856	4856.125	2228.125	1668	1428	1432	1272	1177	815	605.50	367.50	27
B2	8436	4874	4874.250	2246.250	1686	1410	1410	1289	1194	825	606.75	358.75	28
B3	8454	4892	4892.375	2264.375	1704	1392	1392	1306	1211	835	608.00	350.00	28
B4	8472	4910	4910.500	2282.500	1722	1370	1370	1323	1228	845	609.25	341.25	28
B5	8490	4928	4928.625	2300.625	1740	1350	1350	1340	1245	855	610.50	332.50	28
B6	8508	4946	4946.750	2318.750	1758	1330	1330	1357	1262	865	611.75	323.75	28
B7	8526	4964	4964.875	2336.875	1776	1311	1311	1374	1279	875	613.00	315.00	28
IVC bw	20	20	20	20	20	20	20	20	10	1.25	10	1.25	2.5
Fe bw	160	160	160	160	160	160	160	160	80	10	80	10	65
Fmffe	8463	4901	4901	2273	1713	1381	1381	1315	1220	870	610	385	283
Fixpa set	103	208	204	304	459	414	414	415	458	501	601	705	803
LOZsign	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Ph. Sw.	Both	Both	Both	Both	Both	Both	Both	Both	Both	Both	Both	Both	Both
Ph. Sw. step	180	180	180	180	180	180	180	180	180	180	180	180	180
Noise source sw.	On	On	On	On	On	On	On	On	On	On	On	On	On
Nr. Freq	64	64	64	64	64	64	64	64	64	64	64	64	128
Nr. pols	4	4	4	4	4	4	4	4	4	4	4	4	4
Taper	No	No	No	No	No	No	No	No	No	No	No	No	No
Trackline frequency	No	No	No	No	No	No	No	No	No	No	No	No	No
Doppler	-	-	-	-	-	-	-	-	-	-	-	-	-
Velocity Definition	-	-	-	-	-	-	-	-	-	-	-	-	-
Conv. Type	-	-	-	-	-	-	-	-	-	-	-	-	-

Add/Edit Specification Remark

Choose your role: Pt

Text:

Standard setup C-21cm

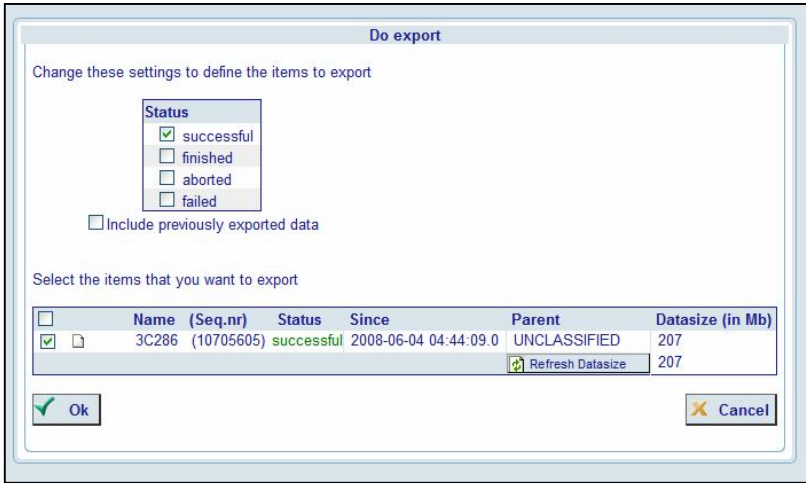
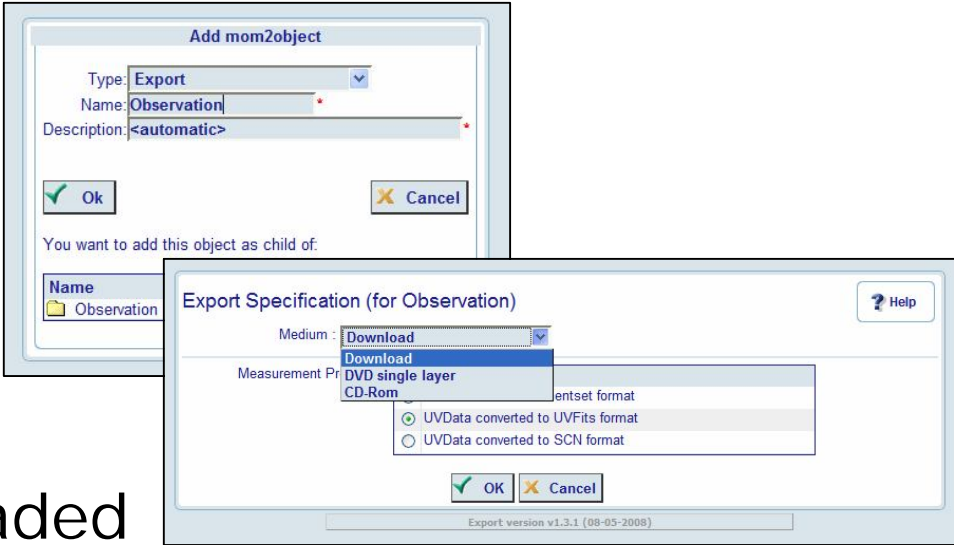
Use Hanning taper

MoM: Observation success & failure

- ◆ Standard fault checking by operators
 - ◆ Inspection report generated
 - ◆ System problems are reported
- ◆ Marked 'successful': in general observation will be OK but not a guarantee for science grade quality
- ◆ Marked 'failed': observation will be rescheduled
- ◆ Notify observer in case of problems

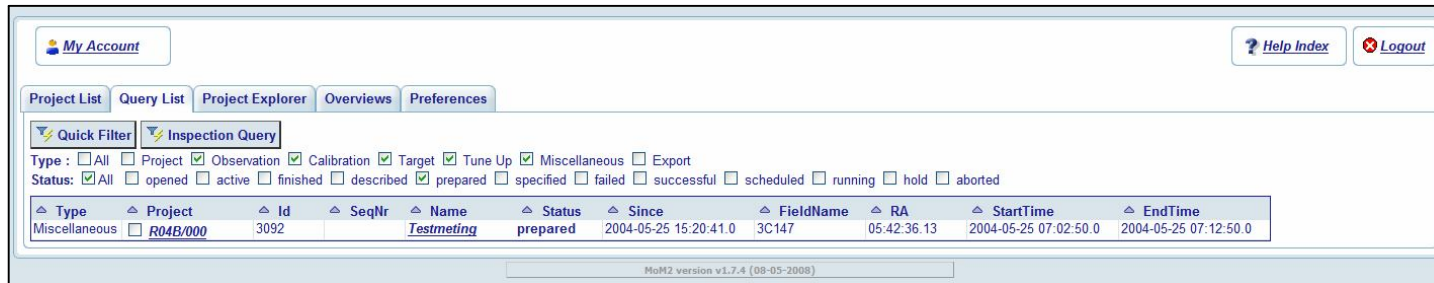
MoM: Retrieving data

- ◆ Add export
 - ⊕ Specify how
- ◆ Execute export
 - ⊕ Select what
 - ⊕ Beware of the dreaded UNCLASSIFIED observation
- ◆ Mail sent
- ◆ Retrieve data from the Repository
 - ⊕ Wget
 - ⊕ Webdav clients



MoM: Queries

- ◆ Quick filter to select e.g. prepared observations



The screenshot shows the MoM2 web interface. At the top, there is a 'My Account' link and 'Help Index' and 'Logout' buttons. Below this is a navigation menu with 'Project List', 'Query List', 'Project Explorer', 'Overviews', and 'Preferences'. The 'Quick Filter' section is active, showing a list of filters: Type (All, Project, Observation, Calibration, Target, Tune Up, Miscellaneous, Export) and Status (All, opened, active, finished, described, prepared, specified, failed, successful, scheduled, running, hold, aborted). The 'prepared' status is selected. Below the filters is a table with columns: Type, Project, Id, SeqNr, Name, Status, Since, FieldName, RA, StartTime, and EndTime. The table contains one row: Miscellaneous, R04B/000, 3092, Testmeting, prepared, 2004-05-25 15:20:41.0, 3C147, 05:42:36.13, 2004-05-25 07:02:50.0, 2004-05-25 07:12:50.0. The footer shows 'MoM2 version v1.7.4 (08-05-2008)'.

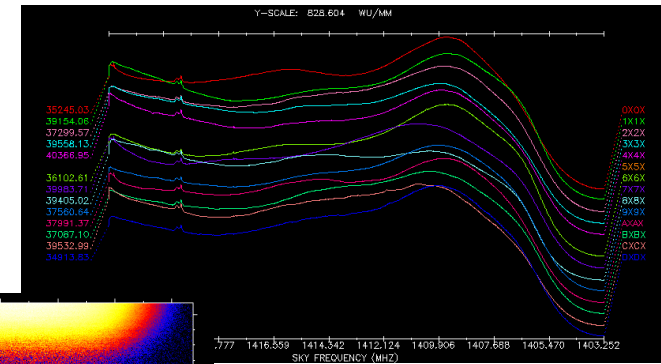
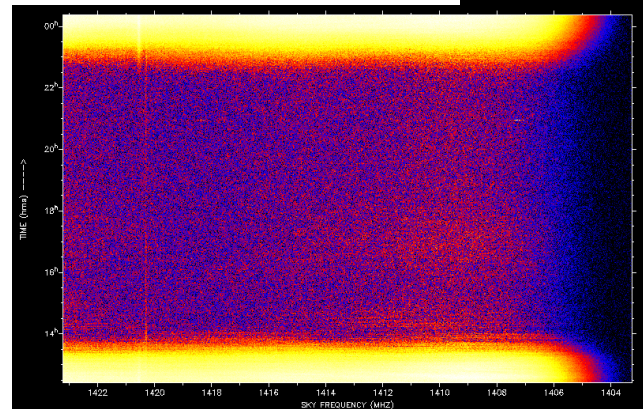
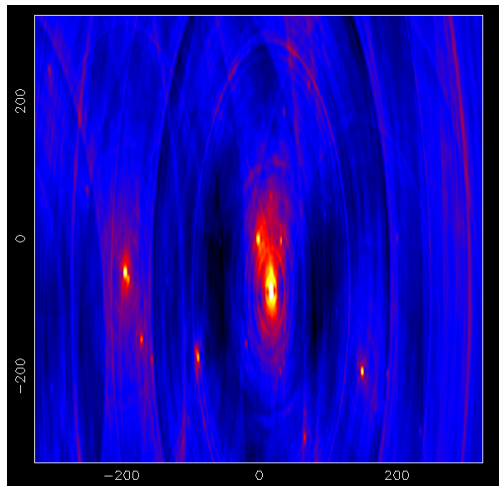
- ◆ Inspection Query to select measurement ranges (time, sequence)



The screenshot shows the MoM2 web interface. At the top, there is a 'My Account' link and 'Help Index' and 'Logout' buttons. Below this is a navigation menu with 'Project List', 'Query List', 'Project Explorer', 'Overviews', and 'Preferences'. The 'Inspection Query' section is active, showing a form with 'TimeRange (start): 2008-01-01 00:00 (end): 2008-06-05 04:47' and 'SeqNumber (start): (end):'. There are buttons for 'Now', 'Today', 'Query', and 'Observed Time'. The footer shows 'MoM2 version v1.7.4 (08-05-2008)'.

On the ToDo list

- ◆ Observation templates
- ◆ Specification tool (accessible to user)
 - ⊕ Limited flexibility (e.g. only standard setups)
- ◆ Quick look spectra & images



◆ NB LOFAR has priority
ASTRON

WSRT User Meeting
HAH 4/6/2008

WSRT archive disclosure (in progress)

- ◆ WoW
 - ◆ Reduced science grade data
- ◆ VO Catalogue
 - ◆ Retrieve public raw data

AstroGrid DSA/catalog

AstroGrid DSA/catalog service

Installation notes

- Welcome page
- Release notes
- Configuring your DSA/catalog
- Version information

Self-tests

- Apache Axis self-check
- Initial properties check
- Installation self-test
- CEA interface self-test
- SQL syntax test (SLOW!)

Server administration

- Generate template metadoc
- View metadata table
- View XML resources
- Manage registrations
- View server status

Service fingerprints

- General service fingerprint
- CEA interface fingerprint
- Axis Webservice WSDLs

Self-query interface

- Run an ADQL/xml query
- Run a cone search
- Run a multiple cone search

Submit a Region Query to ASTRON Test DSA

Please choose the table to apply the cone search to:

Right Ascension in decimal degrees, J2000:

Declination in decimal degrees, J2000:

Search radius in decimal degrees:

Results Format: Compression:

ASTRON
(NETHERLANDS FOUNDATION FOR RESEARCH IN ASTRONOMY)

WoW - Westerbork on the Web



WoW - Westerbork on the Web

This web interface gives access to the reduced data of a number of projects/observations performed with the Westerbork Synthesis Radio Telescope in the last years.

The Westerbork Synthesis Radio Telescope

The Westerbork Synthesis Radio Telescope (WSRT) is an aperture synthesis interferometer that consists of a linear array of 14 antennas arranged on a 2.7 km East-West line. Each antenna has a diameter of 25m. Ten of the antennas are used for the Westerbork on the Web project.

POINTED OBSERVATIONS

- SAURON galaxies HI survey
- SINGS 20-18 cm survey
- WHISP
- Deep field Abell clusters

SINGLE OBJECTS

- NGC 5055
- NGC 6946
- NGC 891
- NGC 4559
- NGC 4388

LARGE FIELDS

- WENSS
- WISH
- Spitzer First Look
- Hubble Deep Field
- Bootes Field
- Lockman Hole

Query Results

ID	MSArchive.IX	MSArchive.SequenceNumber	MSArchive.Subarray	MSArchive.NumberOfSets	MSArchive.ObjectName	MSArchive.ProjectNumber	MSArchive.ProjectCode	MSArchive.ObservationStart	MSArchive.ObservationEnd
1	70905	10006178	0	1	J0038+416	0	Calibratio	2000-05-27 09:32:30.0	
2	70907	10006180	0	1	J0038+416	0	Calibratio	2000-05-27 09:58:30.0	
3	70911	10006184	0	1	J0038+416	0	Calibratio	2000-05-27 11:09:30.0	
4	74290	10009944	0	1	M31BN	0	Calibratio	2000-09-16 04:06:05.0	
5	79081	10104518	0	1	M31OH	5	SOIB	2001-06-30 03:31:35.0	
6	79090	10104527	0	1	M31OH	5	SOIB	2001-07-01 02:07:55.0	
7	79099	10104536	0	1	M31OH	5	SOIB	2001-07-02 02:03:55.0	
8	79965	10105442	0	1	M31B10	12	ROIB	2001-08-03 07:27:50.0	
9	79998	10105480	0	1	M31B10	12	ROIB	2001-08-06 21:16:10.0	
10	79999	10105481	0	1	M31B10	12	ROIB	2001-08-07 03:16:40.0	
11	80105	10105602	0	3	M31B10	12	ROIB	2001-08-11 20:55:40.0	
12	80106	10105603	0	1	M31B10	12	ROIB	2001-08-12 02:57:00.0	
13	80619	10106219	0	1	M31B06	12	ROIB	2001-08-31 19:29:40.0	
14	80620	10106220	0	1	M31B06	12	ROIB	2001-09-01 01:32:40.0	
15	80639	10106241	0	1	M31B07	12	ROIB	2001-09-02 19:27:00.0	
16	80640	10106242	0	1	M31B07	12	ROIB	2001-09-03 01:24:30.0	

WSRT links

- ◆ Website: <http://www.astron.nl/p/observing>
 - ◆ NB ASTRON website refurbished this summer (CMS)
- ◆ NorthStar: <http://proposal.astron.nl>
- ◆ MoM: <http://mom.astron.nl>
- ◆ MoM-info: <http://mom.astron.nl/help>
- ◆ Schedules: <http://www.astron.nl/wsrt/schedule>
- ◆ Projects: <http://www.astron.nl/wsrt/projectlist>
- ◆ Wiki: <http://www.astron.nl/wsrt/wiki>


Shoot!



Thank you!

Login...

You are successfully logged out.

 Thank you for using ASTRON Radio Observatory Division Web-based Software.

www.astron.nl

The Northstar application has been developed at ASTRON as part of the EC-funded RadioNet project.
The user administration and authorization application has been developed by ASTRON.