EVLA Scientific Commissioning

C. Chandler, J. McMullin

Atacama Large Millimeter/submillimeter Array
Expanded Very Large Array
Robert C. Byrd Green Bank Telescope
Very Long Baseline Array

NRAO

Commissioning Goal

- To bring the EVLA into full operation at the end of 2012 offering the maximum possible range of capabilities to the user community given our commissioning resources
- How to do this?
- Structured approach to provide:
  - *Accountability* (to the NSF, to review committees, and to colleagues)
  - *Clarity* so that participants are working toward common goals
  - *Milestones* so that we can assess objectively what we are able to offer to the community
  - Good communication within the commissioning effort

Commissioning Approach

- Test end-to-end operation of specified EVLA observing modes using a range of different targets
- Test reduction tools
- Provide feedback to operations
- Demonstrate the potential of these modes to a wide community
- Include the community through the RSRO program
  - Foster early scientific return
  - Offer users science data from a new mode of EVLA and involve them in prompt scientific exploitation
  - Maximize and optimize resources for the commissioning effort

Commissioning Products

- Reports documenting and quantifying:
  - System performance
  - Exceptions
  - Recommendations for improvement
  - Test data
  - Performance vs. design requirements from the Project Book
- Operational procedures and documentation for operation of the EVLA as a science facility, including end-to-end data management

Commissioning Tasks

- Commissioning tasks derived from "data flow view" of EVLA data:
  - OSRO commissioning
  - Observing with wide bandwidths
  - Scheduling heuristics
  - Data distribution
  - Flagging
  - External calibrations
  - Special calibrations
  - Self-calibration topics
  - Correlator/observing modes
  - Imaging topics
  - Data analysis
  - High performance computing
  - (Low frequency [<1 GHz] bands)

Commissioning Tasks

- Spreadsheet of commissioning tasks
  - commissioning_20100208.xls
- Dates derived from:
  - Receiver delivery dates
  - 3-bit sampler delivery
  - Prioritized list of correlator configurations and capabilities
- Aimed at obtaining a complete list while minimizing the duplication that would result from, e.g., a view derived from science-based use cases

Commissioning Organization

- Group targets by technique and match to staff scientific interests and expertise
- Assign experienced NRAO/EVLA "lead" to each target
  - Roughly translates into "teams" working in the different areas comprising in-house and RSRO scientists
- Team lead responsibilities:
  - Define requirements (cf. Project Book Chapter 2)
  - Specify tests needed
  - Coordinate effort
  - Present status updates

EVLA Commissioning Teams

Area	Team lead(s)	Other NRAO	RSRO
Sub-GHz frequencies	Owen	Cotton, Durand, Intema, Perley	Lazio
Low-frequencies	Momjian, Perley	Bhatnagar, Goss, Owen	Chomiuk, Heesen, Lazio, van Gorkom
Mid-frequencies	Dhawan	Frail, Momjian, Owen, Rupen	Lazio, Leroy, Heesen, Taylor
High-frequencies	Claussen, Sjouwerman	Carilli, Chandler, Marvil, Owen, Pannella, Strazzullo	Aravena, Brogan, Corder, Hunter, Leroy, Perez
Spectral lines	Goss, Ott	Carilli, Chandler, Dickman, Momjian, Sjouwerman, Wrobel	Aravena, Brogan, Chomiuk, Corder, Hunter, Linz, van Gorkom
Scheduling	Frail	Carilli, Claussen, Dhawan, Goss, Momjian, Perley, Owen, Sjouwerman, Wrobel	Heesen, Lazio, Leroy, Linz, Miller-Jones, Perez, van Gorkom

EVLA Commissioning Teams

Area	Team lead(s)	Other NRAO	RSRO
Polarization	Myers	Bhatnagar, Cotton, Dhawan, Greisen, Kogan, Moellenbrock, Owen, Perley	Green, Heesen, Taylor
Rapid response	Frail	Rupen, Wrobel	Chomiuk
Pulsars	Brisken	Frail, Rupen, CASA developers	Deller
VLBA/VLBI compatibility	Brisken, Walker	Mioduszewski, Romney	Deller
Astrometry	Brisken	Dhawan, Fomalont, Mioduszewski, Rupen	
Mosaicing	Ott	Dickman, Golap, Goss	Chomiuk, Miller-Jones, Taylor
Planets	Butler	Hesman	
Solar	Perley, Butler	Bastian	

EVLA Commissioning Teams

Area	Team lead(s)	Other NRAO	RSRO
OSRO tests	Van Moorsel	McMullin, Ott, Rupen	
Correlator	Rupen	Carilli, Chandler, Dhawan, Frail, Goss, Momjian, Ott, Sjouwerman, Wrobel	Aravena, Brogan, Chomiuk, Hunter, van Gorkom
Calibrator survey/ models/DB	Mioduszewski	Greisen, Hesman, Moellenbrock, Owen, Sjouwerman	
Demo science	Chandler	Butler, Claussen, Dickman, Greisen, Hesman, McMullin, Ott	Miller-Jones
Algorithms (imaging, self-cal, advanced data analysis, HPC)	Bhatnagar, Owen	Carilli, Chandler, Cotton, Golap, Greisen, Goss, Kogan, Marvil, Momjian, Perley, Rao, Robnett	All RSRO
Documentation	McMullin	All	Chomiuk, Greaves

Commissioning Organization

- Minimize duplication of effort at the same time as preventing targets from falling through the cracks
- Move toward standardization and documentation of activities to improve:
  - New team member/RSRO integration and ramp up
  - Clear history of testing/results
  - Establish "accepted/recommended" paths for different observing modes, including observing scripts and reduction scripts for inclusion in user documentation and pipeline development

Commissioning Organization

- For each commissioning task the lead should produce a minimum of the following:
  - One or more *goals* with a description of the required test(s), participant(s), timescale, and a definition of what it means for this goal to be complete
  - E.g.: polarization (thanks to Steve for this)
  - The level of detail is up to the lead to define
  - Negotiation on delivery dates for completion
  - Each target will be reviewed on a quarterly basis; decision on whether a target is complete will be made by lead

Commissioning tasks beg. 2009 Q4-2010 Q1

- OSRO commissioning tests: van Moorsel
- OPT tests for primary frequencies (L/C/K/Ka/Q/VLA-X): Sjouwerman
- L/S/C observing methodology (incl. polcal for Stokes I); 8-bit samplers: Momjian
- L/C/K/Ka/Q complex gain stability: Perley
- L/C/K/Ka/Q bandpass stability: Perley
- Narrow-field, wide-band imaging of unconfused fields: Owen
- Identical sub-bands in correlator: Rupen
- Planetary observing (correlator/executor): Butler
- Planetary observing (OPT): Butler
- Reference pointing: Perley
- ToO scheduling heuristics: Frail
- Spectral line set-up and calibration procedures: Ott
- Narrow-field, wide-band imaging of confused fields: Owen
- K/Ka/Q observing methodology (incl. polcal for Stokes I); 8/3-bit samplers: Sjouwerman
- Archive functionality: Sjouwerman
- Data distribution via alternative media: van Moorsel
- L/C/K/Ka/Q observing recommendations documented: McMullin
- RM synthesis imaging: Owen

Commissioning tasks beg. 2010 Q2 (planning needed Q1)

- Trading sub-bands for channels: Rupen
- Phased array for VLBI: Brisken
- Phased array for pulsars: Brisken
- L/C/K/Ka/Q delays/fringe fitting: Dhawan
- L/C/K/Ka/Q polarization calibration: Myers
- Calibrator survey: Mioduszewski
- X/Ku scheduling heuristics: Frail
- CASA multi-thread capability: Golap
- L/C/K/Ka/Q polarization stability: Myers
- VLBI observing set-up (SCHED/OPT): Walker
- Gain curves: Perley
- CASA cluster testing: Golap
- Imaging of ~FWHM of primary beam: Owen
- Full field, narrow-band polarization imaging: Owen
- Pointing self-calibration: ARDG
- Flagging algorithm development: Owen
- L/C/K/Ka/Q flux calibrator models: Mioduszewski
- L/S/C flagging: Owen
- RFI excision/subtraction: Owen
- Flagging recommendations documented: McMullin

Prioritization

- There is a lot to do! Already we are behind this "ideal" schedule due to time code and system integration issues with correlator
- Commissioning task list is already in an approximately prioritized order
- Work through list in this order
- Priorities
  - OSRO functionality for 2010A-2011A (affects the most users)
  - Commissioning for OSRO 2011B-2012B: 2 GHz BW (8-bit samplers); simple correlator set-ups (no recirculation); limited advanced modes (e.g., VLBI-compatibility; TBD)
    - Further discussion of this is warranted in the next couple of months
  - More advanced set-ups for RSRO projects

Task Tracking and Documentation

- Commissioning tasks, RSRO projects, demonstration science
  - Organize using JIRA
    - Already in use and adequate for our needs
    - Provides transparency within the group, notification as broad or as restricted as needed; archive/history of activities and results
  - Two projects
    - ECSV: EVLA Commissioning and Science Verification
      - This provides the backbone/structure for the known observations that we will take to characterize the observatory and also enables open/idea-based investigations
    - RSRO: Resident Shared Risk Observing
      - This provides structure for the visiting scientists to demonstrate progress toward proposal fulfillment

Task Tracking and Documentation

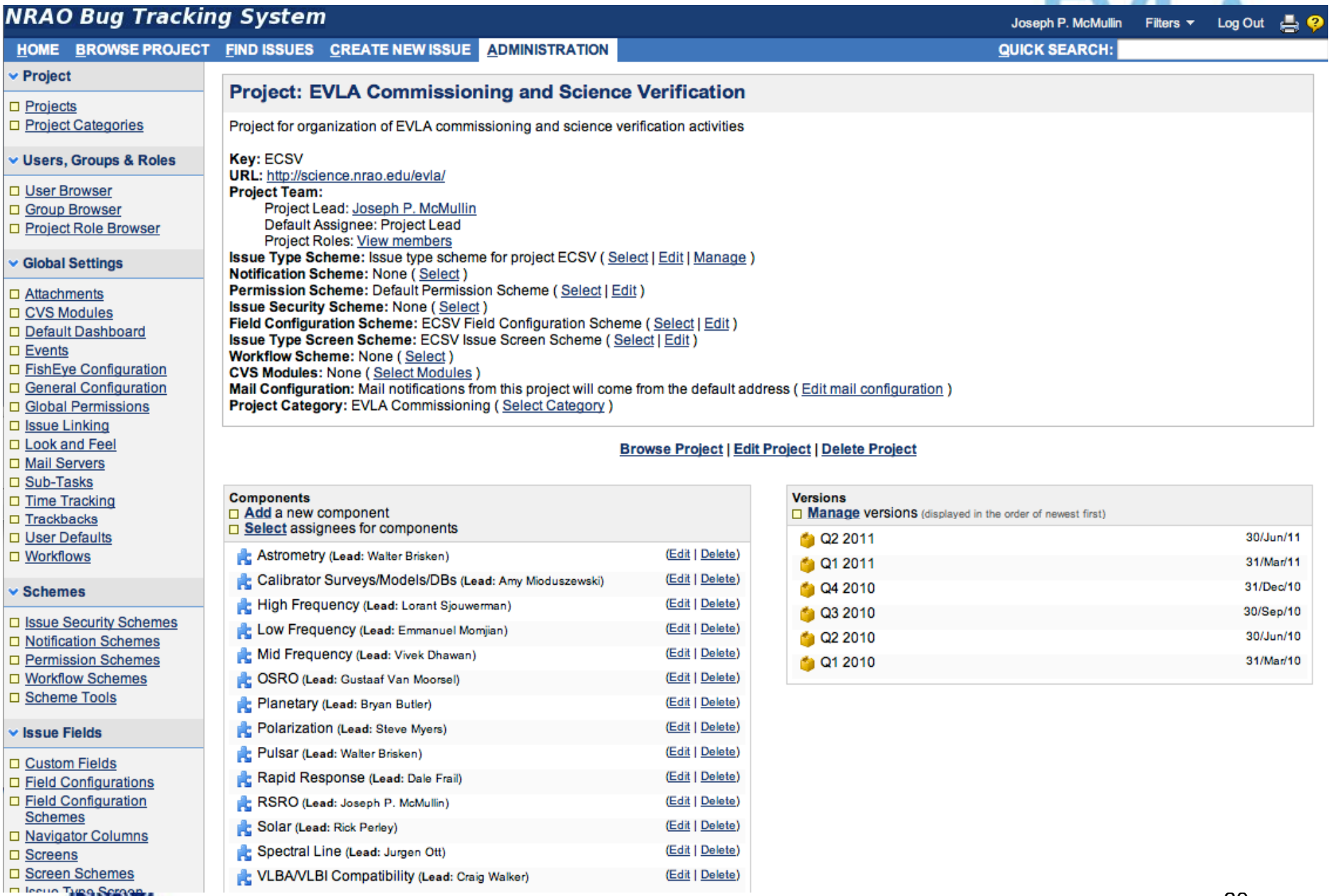
- Test datasets, procedures (acquisition, analysis)
  - Use NRAO Twiki
    - https://staff.nrao.edu/wiki/bin/view/EVLA/EVLACommissioning
    - maintain in a single location accessible to everyone, automatically archived; likely easier to search than e-mails
    - Discussion?
  - Post detailed descriptions of test data sets and archive addresses
  - Post procedures used, test results

Task Tracking and Documentation

- Meetings
  - Monday mornings: report on status by team leads; discuss test observations for the week
  - Monthly EVLA Transition slot for in-depth review of selected targets
  - Monthly EVLA test meeting for presenting test results
  - Individual teams should probably meet weekly at times convenient for the team
  - Results from tests that might be useful for targets other than that for which the data were originally taken should be communicated to the relevant team lead and/or posted on the data wiki and/or included in the relevant JIRA ticket

ECSV Project: https://bugs.aoc.nrao.edu/browse/ECSV

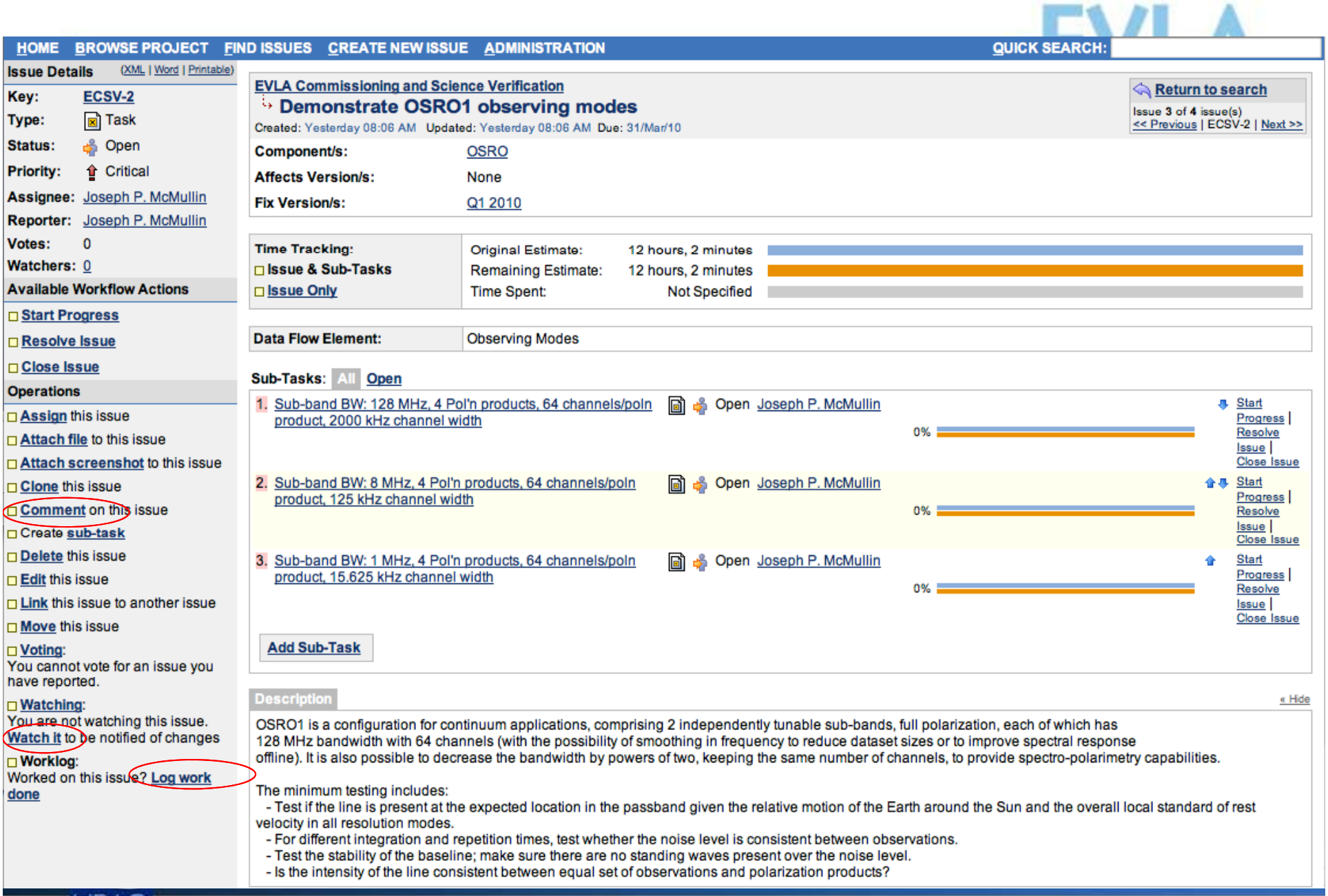
- Draft Project plan based on the spreadsheet targets and quarter resolution deadlines; additional details added based on Rupen's OSRO testing plan; added Myers' Polarization calibration test plan as an example)
  - http://www.alma.cl/aiv/EVLA_CSV.htmld/
  - Gantt chart: http://www.alma.cl/aiv/EVLA_CSV.htmld/EVLA_CSVGantt.html
- Initial targets for Q1/Q2 2010 posted to JIRA


NRAO Bug Tracking System
Joseph P. McMullin
Filters
Log Out
HOME
BROWSE PROJECT
FIND ISSUES
CREATE NEW ISSUE
ADMINISTRATION
QUICK SEARCH:
Project
Projects
Project Categories
Users, Groups & Roles
User Browser
Group Browser
Project Role Browser
Global Settings
Attachments
CVS Modules
Default Dashboard
Events
FishEye Configuration
General Configuration
Global Permissions
Issue Linking
Look and Feel
Mail Servers
Sub-Tasks
Time Tracking
Trackbacks
User Defaults
Workflows
Schemes
Issue Security Schemes
Notification Schemes
Permission Schemes
Workflow Schemes
Scheme Tools
Issue Fields
Custom Fields
Field Configurations
Field Configuration Schemes
Navigator Columns
Screens
Screen Schemes
Project: EVLA Commissioning and Science Verification
Project for organization of EVLA commissioning and science verification activities
Key: ECSV
URL: http://science.nrao.edu/evla/
Project Team:
Project Lead: Joseph P. McMullin
Default Assignee: Project Lead
Project Roles: View members
Issue Type Scheme: Issue type scheme for project ECSV (Select | Edit | Manage)
Notification Scheme: None (Select)
Permission Scheme: Default Permission Scheme (Select | Edit)
Issue Security Scheme: None (Select)
Field Configuration Scheme: ECSV Field Configuration Scheme (Select | Edit)
Issue Type Screen Scheme: ECSV Issue Screen Scheme (Select | Edit)
Workflow Scheme: None (Select)
CVS Modules: None (Select Modules)
Mail Configuration: Mail notifications from this project will come from the default address (Edit mail configuration)
Project Category: EVLA Commissioning (Select Category)
Browse Project | Edit Project | Delete Project
Components
Add a new component
Select assignees for components
Astrometry (Lead: Walter Brisken) (Edit | Delete)
Calibrator Surveys/Models/DBs (Lead: Amy Mioduszewski) (Edit | Delete)
High Frequency (Lead: Lorant Sjouwerman) (Edit | Delete)
Low Frequency (Lead: Emmanuel Momjian) (Edit | Delete)
Mid Frequency (Lead: Vivek Dhawan) (Edit | Delete)
OSRO (Lead: Gustaaf Van Moorsel) (Edit | Delete)
Planetary (Lead: Bryan Butler) (Edit | Delete)
Polarization (Lead: Steve Myers) (Edit | Delete)
Pulsar (Lead: Walter Brisken) (Edit | Delete)
Rapid Response (Lead: Dale Frail) (Edit | Delete)
RSRO (Lead: Joseph P. McMullin) (Edit | Delete)
Solar (Lead: Rick Perley) (Edit | Delete)
Spectral Line (Lead: Jurgen Ott) (Edit | Delete)
VLBA/VLBI Compatibility (Lead: Craig Walker) (Edit | Delete)
Versions
Manage versions (displayed in the order of newest first)
Q2 2011 30/Jun/11
Q1 2011 31/Mar/11
Q4 2010 31/Dec/10
Q3 2010 30/Sep/10
Q2 2010 30/Jun/10
Q1 2010 31/Mar/10

How to interact with JIRA

- Log in; should see list of targets assigned to you
  - Can customize the view (later demo)
- There are 5 principal activities to be done while in JIRA
  - Provide an update on an assigned task (use the Comment link to enter a description)
  - Provide a comment on a task on someone else (use the Comment link to enter a description)
  - Log observing time obtained (use the Log work done to enter the amount of time and description, data file)
  - Decide to be notified of all updates to someone else's task (use the Watch It link)
  - Create a new task/subtask (break down a large task into component pieces, ideas for new observations/tests, etc)

See Illustration (next)


HOME BROWSE PROJECT FIND ISSUES CREATE NEW ISSUE ADMINISTRATION QUICK SEARCH:
Issue Details (XML | Word | Printable)
Key: ECSV-2
Type: Task
Status: Open
Priority: Critical
Assignee: Joseph P. McMullin
Reporter: Joseph P. McMullin
Votes: 0
Watchers: 0
Available Workflow Actions
Start Progress
Resolve Issue
Close Issue
Operations
Assign this issue
Attach file to this issue
Attach screenshot to this issue
Clone this issue
Comment on this issue
Create sub-task
Delete this issue
Edit this issue
Link this issue to another issue
Move this issue
Voting:
You cannot vote for an issue you have reported.
Watching:
You are not watching this issue. Watch it to be notified of changes
Worklog:
Worked on this issue? Log work done
EVLA Commissioning and Science Verification
Demonstrate OSRO1 observing modes
Created: Yesterday 08:06 AM Updated: Yesterday 08:06 AM Due: 31/Mar/10
Return to search
Issue 3 of 4 issue(s)
<< Previous | ECSV-2 | Next >>
Component/s: OSRO
Affects Version/s: None
Fix Version/s: Q1 2010
Time Tracking:
Issue & Sub-Tasks
Issue Only
Original Estimate: 12 hours, 2 minutes
Remaining Estimate: 12 hours, 2 minutes
Time Spent: Not Specified
Data Flow Element: Observing Modes
Sub-Tasks: All Open
1. Sub-band BW: 128 MHz, 4 Pol'n products, 64 channels/poln product, 2000 kHz channel width Open Joseph P. McMullin 0% Start Progress | Resolve Issue | Close Issue
2. Sub-band BW: 8 MHz, 4 Pol'n products, 64 channels/poln product, 125 kHz channel width Open Joseph P. McMullin 0% Start Progress | Resolve Issue | Close Issue
3. Sub-band BW: 1 MHz, 4 Pol'n products, 64 channels/poln product, 15.625 kHz channel width Open Joseph P. McMullin 0% Start Progress | Resolve Issue | Close Issue
Add Sub-Task
Description
« Hide
OSRO1 is a configuration for continuum applications, comprising 2 independently tunable sub-bands, full polarization, each of which has 128 MHz bandwidth with 64 channels (with the possibility of smoothing in frequency to reduce dataset sizes or to improve spectral response offline). It is also possible to decrease the bandwidth by powers of two, keeping the same number of channels, to provide spectro-polarimetry capabilities.
The minimum testing includes:
- Test if the line is present at the expected location in the passband given the relative motion of the Earth around the Sun and the overall local standard of rest velocity in all resolution modes.
- For different integration and repetition times, test whether the noise level is consistent between observations.
- Test the stability of the baseline; make sure there are no standing waves present over the noise level.
- Is the intensity of the line consistent between equal set of observations and polarization products?

Create Issue

Step 2 of 2: Enter the details of the issue...

Project: EVLA Commissioning and Science Verification

Issue Type: Task

* *Summary:*

Component/s:
- Unknown
- Astrometry
- Calibrator Surveys/Models/DBs
- High Frequency
- Low Frequency

Data Flow Element: None

Element in the end-to-end data acquisition to reduction.

Priority: Major

Due Date:

Fix Version/s:
- Unknown
- **Unreleased Versions**
  - Q1 2010
  - Q2 2010
  - Q3 2010
  - Q4 2010

Original Estimate:

An estimate of how much work remains until this issue will be resolved.
The format of this is ' *w *d *h *m ' (representing weeks, days, hours and minutes - where * can be any number)
Examples: 4d, 5h 30m, 60m and 3w.

Assignee: - Automatic - Assign to me

* *Reporter:* jmcmulli

Start typing to get a list of possible matches.

Description:

Attachment: Choose File no file selected

The maximum file upload size is 10.00 MB. Please zip files larger than this.

Environment:

For example operating system, software platform and/or hardware specifications (include as appropriate for the issue).

Create Cancel

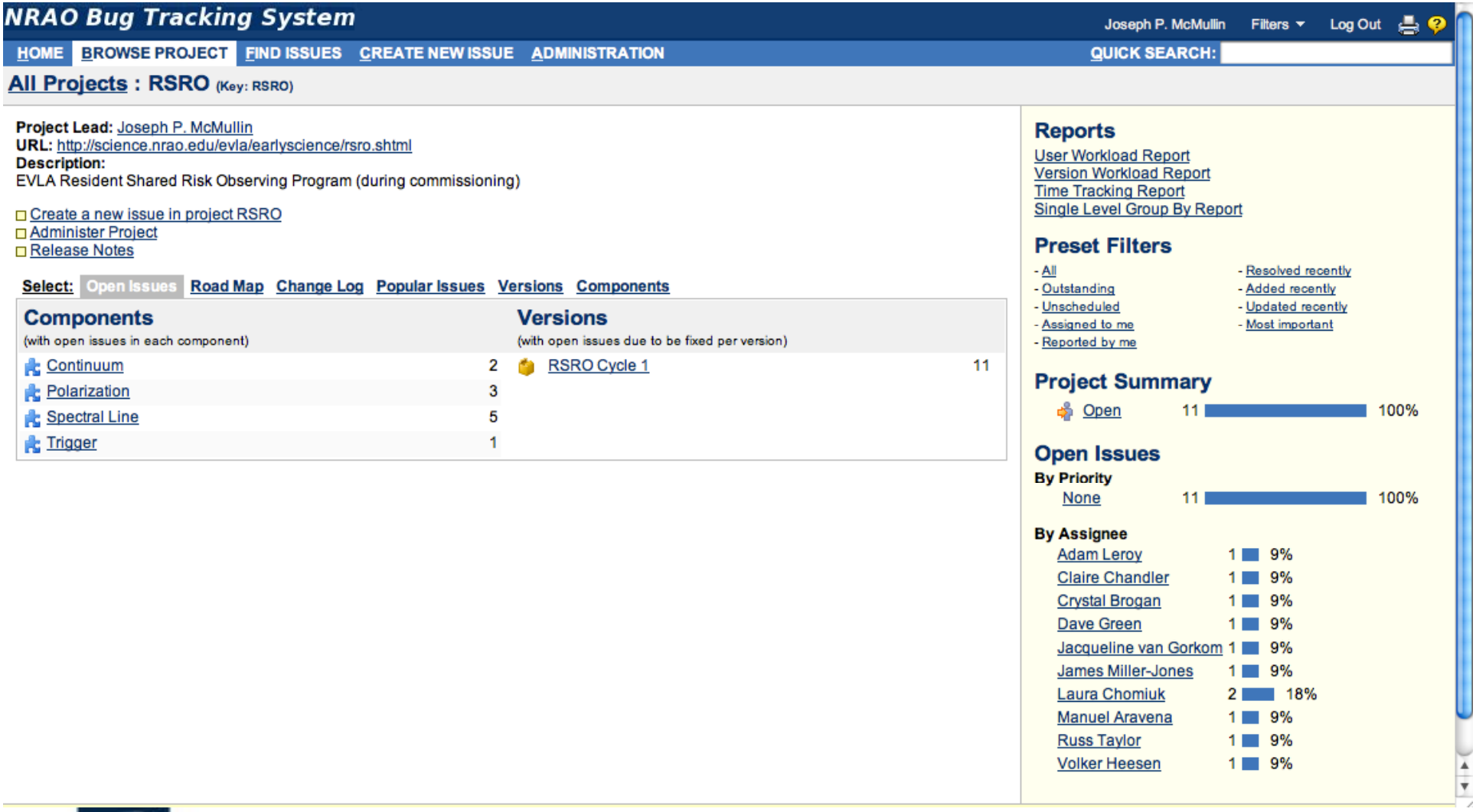
ECSV

- Currently, notifications are turned off; they will be turned on by the end of the day; this means:
  - Science teams should log into JIRA and sign up to 'Watch' relevant tickets for their areas to insure that they receive all updates/comments as they happen
  - Science Leads will automatically be notified of any new targets created under their area
  - Subsequent comments/activity on tickets that are assigned or watched by you will send an e-mail notification
- JIRA Overhead
  - Fundamentally, the only overhead should be logging into JIRA; standard recording of activities and notes just get pushed here rather than into e-mails/elsewhere. Exploit notification scheme to know that everyone interested is hearing the information

RSRO Proposal Tracking

- JIRA Project:
  - https://bugs.aoc.nrao.edu/browse/RSRO
- Organized by Proposal Cycle
- Dynamically scheduled
- JIRA Parent Ticket for recording observing proposal progress
- All interested team members (others?) may watch the ticket for any updates
- Generate sub-task(s) to enable leads/residents to organize and assign work within the team

Illustration (next)



NRAO Bug Tracking System

Joseph P. McMullin Filters Log Out

HOME BROWSE PROJECT FIND ISSUES CREATE NEW ISSUE ADMINISTRATION QUICK SEARCH:

All Projects : RSRO (Key: RSRO)

Project Lead: Joseph P. McMullin
URL: http://science.nrao.edu/evla/earlyscience/rsro.shtml
Description:
EVLA Resident Shared Risk Observing Program (during commissioning)

- Create a new issue in project RSRO
- Administer Project
- Release Notes

Select: Open Issues | Road Map | Change Log | Popular Issues | Versions | Components

Components
(with open issues in each component)

Continuum	2
Polarization	3
Spectral Line	5
Trigger	1

Versions
(with open issues due to be fixed per version)

RSRO Cycle 1	11

Reports
User Workload Report
Version Workload Report
Time Tracking Report
Single Level Group By Report

Preset Filters
- All
- Outstanding
- Unscheduled
- Assigned to me
- Reported by me
- Resolved recently
- Added recently
- Updated recently
- Most important

Project Summary

Open	11	100%

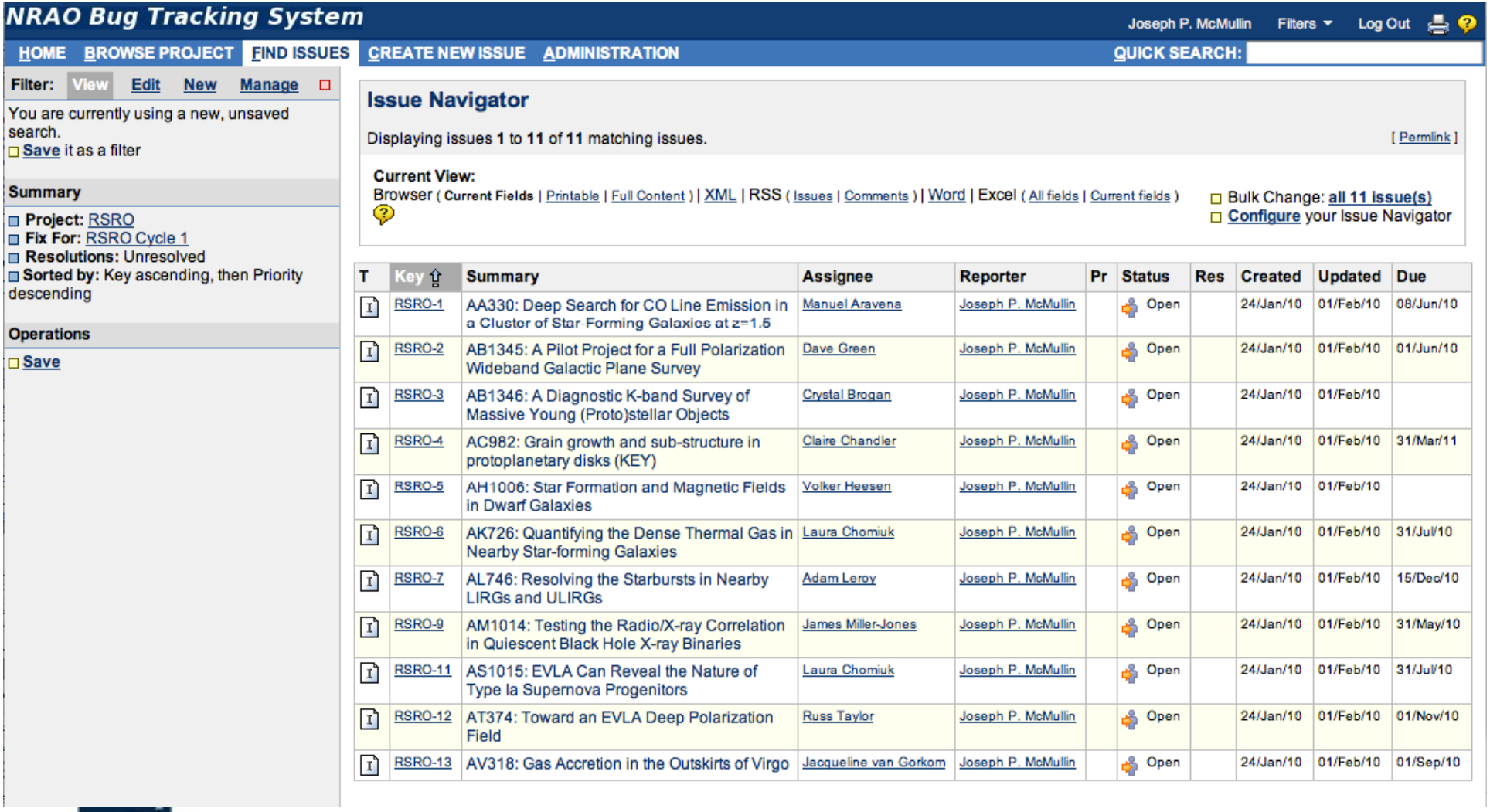
Open Issues

By Priority

None	11	100%

By Assignee

Adam Leroy	1	9%
Claire Chandler	1	9%
Crystal Brogan	1	9%
Dave Green	1	9%
Jacqueline van Gorkom	1	9%
James Miller-Jones	1	9%
Laura Chomiuk	2	18%
Manuel Aravena	1	9%
Russ Taylor	1	9%
Volker Heesen	1	9%



NRAO Bug Tracking System

Joseph P. McMullin | Filters | Log Out

HOME | BROWSE PROJECT | FIND ISSUES | CREATE NEW ISSUE | ADMINISTRATION | QUICK SEARCH:

Filter: View | Edit | New | Manage

You are currently using a new, unsaved search.
Save it as a filter

Summary

- **Project:** RSRO
- **Fix For:** RSRO Cycle 1
- **Resolutions:** Unresolved
- **Sorted by:** Key ascending, then Priority descending

Operations

Save

Issue Navigator

Displaying issues **1** to **11** of **11** matching issues. [Permlink]

Current View:
Browser (**Current Fields** | Printable | Full Content) | XML | RSS (Issues | Comments) | Word | Excel (All fields | Current fields)

Bulk Change: **all 11 issue(s)**
Configure your Issue Navigator

T	Key	Summary	Assignee	Reporter	Pr	Status	Res	Created	Updated	Due
	RSRO-1	AA330: Deep Search for CO Line Emission in a Cluster of Star-Forming Galaxies at z=1.5	Manuel Aravena	Joseph P. McMullin		Open		24/Jan/10	01/Feb/10	08/Jun/10
	RSRO-2	AB1345: A Pilot Project for a Full Polarization Wideband Galactic Plane Survey	Dave Green	Joseph P. McMullin		Open		24/Jan/10	01/Feb/10	01/Jun/10
	RSRO-3	AB1346: A Diagnostic K-band Survey of Massive Young (Proto)stellar Objects	Crystal Brogan	Joseph P. McMullin		Open		24/Jan/10	01/Feb/10	
	RSRO-4	AC982: Grain growth and sub-structure in protoplanetary disks (KEY)	Claire Chandler	Joseph P. McMullin		Open		24/Jan/10	01/Feb/10	31/Mar/11
	RSRO-5	AH1006: Star Formation and Magnetic Fields in Dwarf Galaxies	Volker Heesen	Joseph P. McMullin		Open		24/Jan/10	01/Feb/10	
	RSRO-6	AK726: Quantifying the Dense Thermal Gas in Nearby Star-forming Galaxies	Laura Chomiuk	Joseph P. McMullin		Open		24/Jan/10	01/Feb/10	31/Jul/10
	RSRO-7	AL746: Resolving the Starbursts in Nearby LIRGs and ULIRGs	Adam Leroy	Joseph P. McMullin		Open		24/Jan/10	01/Feb/10	15/Dec/10
	RSRO-9	AM1014: Testing the Radio/X-ray Correlation in Quiescent Black Hole X-ray Binaries	James Miller-Jones	Joseph P. McMullin		Open		24/Jan/10	01/Feb/10	31/May/10
	RSRO-11	AS1015: EVLA Can Reveal the Nature of Type Ia Supernova Progenitors	Laura Chomiuk	Joseph P. McMullin		Open		24/Jan/10	01/Feb/10	31/Jul/10
	RSRO-12	AT374: Toward an EVLA Deep Polarization Field	Russ Taylor	Joseph P. McMullin		Open		24/Jan/10	01/Feb/10	01/Nov/10
	RSRO-13	AV318: Gas Accretion in the Outskirts of Virgo	Jacqueline van Gorkom	Joseph P. McMullin		Open		24/Jan/10	01/Feb/10	01/Sep/10

NRAO Bug Tracking System

Dashboard | AIV Test Portal

Configure: ON | OFF Manage Dashboard

Category: **EVLA Commissioning** [hide]

Project: **EVLA Commissioning and Science Verification** (ECSV) [hide]

Project Lead: Joseph P. McMullin
Reports: Open Issues | Road Map | Change Log | Popular Issues

Open Issues: (By Priority) — No open Issues

Filter Issues:
- All
- Outstanding
- Unscheduled
- Assigned to me
- Reported by me
- Resolved recently
- Added recently
- Updated recently
- Most important

Project: **RSRO** (RSRO) [hide]

Project Lead: Joseph P. McMullin
Reports: Open Issues | Road Map | Change Log | Popular Issues | Versions | Components

Filter Issues:
- All
- Outstanding
- Unscheduled
- Assigned to me
- Reported by me
- Resolved recently
- Added recently
- Updated recently
- Most important

Statistics: **RSRO** (Status) — Total Issues: 13

Open	13	100%

My Unresolved Reported Issues | Watches | Votes

Favourite Filters (Create New | Manage Filters)

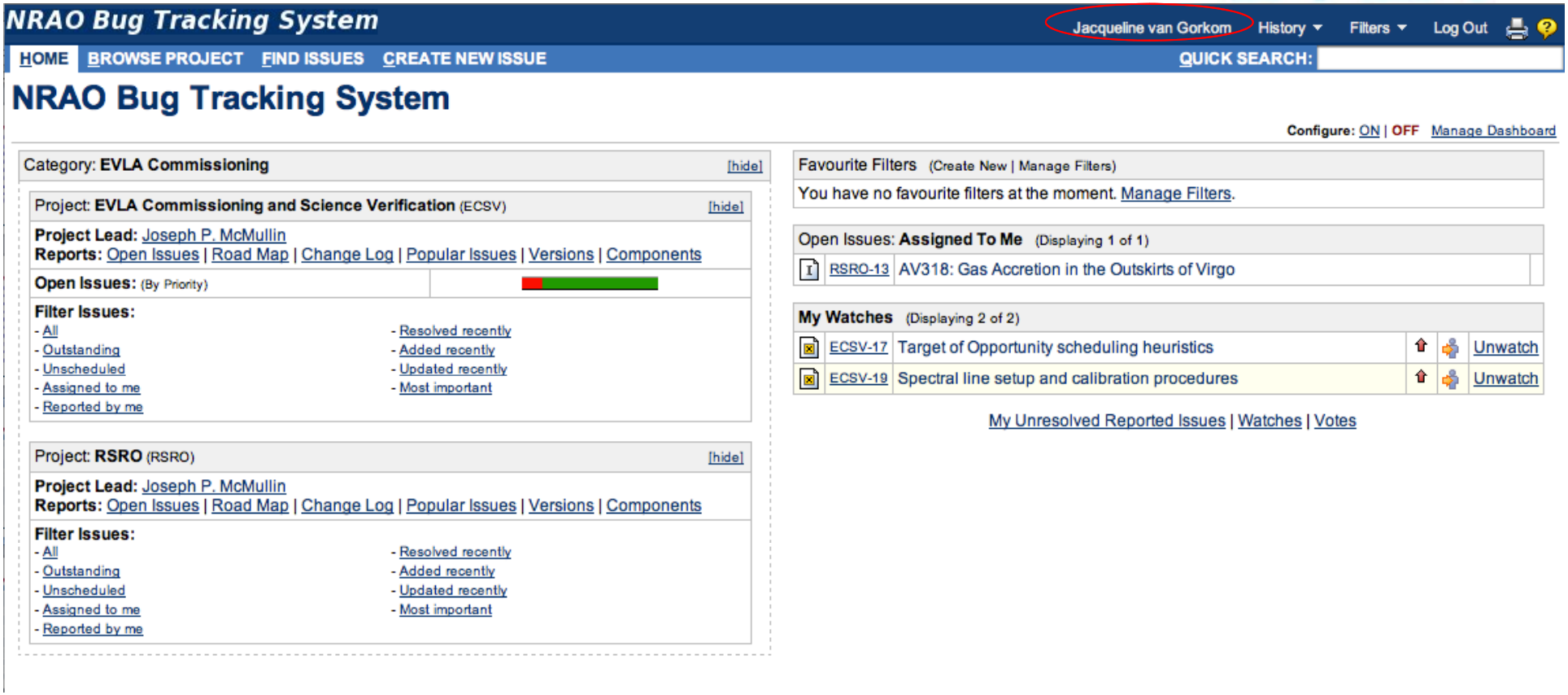
RSRO Proposals	13
Unresolved	575

Open Issues: **In Progress** (Displaying 0 of 0)

You have no issues in progress at the moment.

Statistics Table: **RSRO Proposals**

RSRO Band Requirement RSRO Configuration	0.7 cm (Q) [40.0 - 50.0 GHz]	1 cm (Ka) [26.5 - 40.0 GHz]	1.3 cm (K) [18.0 - 26.5 GHz]	20 cm (L) [1.0 - 2.0 GHz]	3 cm (X) [8.0 - 12.0 GHz]	6 cm (C) [4.0 - 8.0 GHz]
A [0.68 - 36.4 km]	1	2	1	0	0	3
B [0.21 - 11.1 km]	1	2	1	0	0	3
C [0.035 - 3.4 km]	1	3	3	1	1	6
D [0.035 - 1.03 km]	2	4	5	2	1	4



Note: All non-NRAO (and new NRAO) accounts have been set up to have this view of JIRA as their home screen (just see the EVLA Commissioning projects and activities that they are leading or watching.

HOME | BROWSE PROJECT | FIND ISSUES | CREATE NEW ISSUE | QUICK SEARCH:

Issue Details (XML | Word | Printable)

Key: RSRO-13
Type: RSRO Proposal
Status: Open
Assignee: Jacqueline van Gorkom
Reporter: Joseph P. McMullin
Votes: 0
Watchers: 0

Available Workflow Actions

- Start Progress
- Resolve Issue
- Close Issue

Operations

- Assign this issue
- Attach file to this issue
- Attach screenshot to this issue
- Clone this issue
- Comment on this issue
- Create sub-task
- Delete this issue
- Edit this issue
- Link this issue to another issue
- Move this issue
- Convert to sub-task
- Voting:
  You have not voted for this issue.
  Vote for it if you wish it to be fixed
- Watching:
  You are not watching this issue.
  Watch it to be notified of changes
- Worklog:

RSRO

AV318: Gas Accretion in the Outskirts of Virgo

Return to search

Created: 24/Jan/10 11:07 PM Updated: 01/Feb/10 10:33 PM Due: 01/Sep/10

Component/s: Spectral Line
Fix Version/s: RSRO Cycle 1

Time Tracking:		
	Original Estimate:	12 hours
	Remaining Estimate:	12 hours
	Time Spent:	Not Specified

RSRO Project Code:	AV318
RSRO Proposal Time Allocation:	12h
RSRO Band Requirement:	20 cm (L) [1.0 - 2.0 GHz]
RSRO Configuration:	D [0.035 - 1.03 km]
RSRO Observation Type:	spectral line
RSRO Residency Start:	01/Feb/10
RSRO Residency End:	01/Sep/10

All | Comments | Work Log | Change History — Sort Order:

Joseph P. McMullin added a comment - 01/Feb/10 10:31 PM [Permlink | « Hide]

DSOC Room Assigment: 200F

Joseph P. McMullin added a comment - 01/Feb/10 10:33 PM [Permlink | « Hide]

Guidelines:
- Create sub-tasks as needed to organize/complete the proposal effort.
- Provide project code to collaborators so they way choose to "Watch it" (see left column Operations).
- Provide comments as updates as appropriate.
- When observations are scheduled/executed; log work to indicate the amount of observing time received/usable.
  - Provide information on antennas available, time/date, scheduling block name, name of data file in the archive.

RSRO Feedback Loop

- Any issues/problems encountered during the RSRO observations/analysis will become ECSV JIRA tickets
  - These will be followed up by the EVLA team at the appropriate priority

Immediate "to dos"

- Finalize target/team leads: contact me or Joe with any concerns, questions, or team additions
- Immediate commissioning priority: preparation for start of OSRO observing
- Plans for all other upcoming targets nominally beginning 2009 Q4 through 2010 Q1 are due February 22
- Plans for future targets are due 1 month ahead of the start of the quarter (e.g., March 1 for Q2) so that test time can be planned and impact of commissioning on astronomical observing assessed
- NB: EVLA commissioning will continue to take priority, but we should be mindful that EVLA commissioning tests do impact users, so duplicate tests should be avoided if possible