WORKSPACES 2.8 TRAINING

MARK LACY



ACTIVE REQUESTS PAGE

•

•

has

rou are viewing: on_and_imaging for Inge std calibration_and_imaging SDM ID e.g. 13B-014.sb2915147 Launch Filters Execution Status NGAS Download Status Stage 1 QA Staff Stage 2 QA staff SRDP Observation Dates State Not submitted Unknown Aaron Lawson Aaron Lawson Complete true From То Submittee Start Not Started Audrey Zinn Amy Kimball false **Summarizes** Created Queued In Progress Drew Medlin Drew Medlin Ĥ YYYY-MM-DD YYYY-MM-DD Executing Complete Efrain Arzaga Juergen Ott Cancelled the jobs by Failed James Khor Ingesting Mark Lacy Awaiting OA Laney Norton capability. Stage 2 Review Rachel Roberts QA Closed Sergio Garza Failed Tierra Candelaria Calibration Error Trent Seelig Cancelled capability Complete additional NGAS Download Current Status SRDP Arrav Observatio Processing Start SDM ID Request 🗸 🔰 Execution Status Band Configuration Start Time Time boxes for Executing Complete 15B-К, Х D 2016-01-01/03/2025. manual 02T04:49:56 11:13:25 AM 229.sb31512825.eb31551547.57389.20132883102 running and auto-Complete 24B-К 2024-12- $\overline{\checkmark}$ 01/03/2025, Executing A 171662 SUBMITTED 382.sb46545997.eb47432154.60668.12670994213 24T03:02:28 10:04:10 AM calibration. КU 2025-01-01/02 Executing Complete 24B-А 2025. 171661 SUBMITTED 07:1 :26 AM 147.sb46544989.eb47441666.60677.32872929398 02T07:54:46 Click on status to open × Click on the filter button to filter the list Assign yourself as DA request window eviewer

O Workspaces Dialog box to enter SDM FSID Capability queue NRA Please note that this is the Test version of Workspaces Workspa .es প Home Content of the setting E Active Requests Email Templates td_calibratio__and_imaging is the current Default Processing Capability Automated Processing Status: STOP Pause std_calibration_and_imaging Items per page: 20 -1 - 20 of 27 $\langle \rangle$ Stage 1 Reviewer Stage 2 Reviewer viewer: Assign Stage 2 Review gn Stage 1 Revie Reviewer: Reviewer: Aaron Lawson Amy Kimball × Reviewer: Reviewer: Audrey Zinn Assign Stage 2 Reviewer ×

Reviewer

REQUEST PAGE

- First iteration:
 - State is "awaiting QA"
 - Hit "View Weblog" to see the weblog (opens in new tab)
 - Edit the internal notes.
 - If a rerun is required, hit "Create new version"
 - If you want to know about the observation, proposal information is now available
 If no rerun, edit the QA

available If no rerun, edit the QA notes and hit "Send to Stage 2".



O' Workspaces

NKAO Archive

ansky-VLA, ALMA Cycle 1+ and VLBA da

Workspaces

NRAC

Request #191686 SUBMITTED

Created an hour ago

Capability

STD_CALIBRATION_AND_IMAGING

• View Proposal Information

No actions available. This version is still processing or has not been sub-

Proposal Information

Archive Project Code 25A-353

Title VLA Monitoring of the radio outflow in changing-look AGN 1ES 1927+654 in 25A

×

Observing Types Continuum Polarimetry

Abstract

Five years after its initial optical outburst, the changing-look AGN 1ES 1927+654 recently exhibited a delayed radio flare, with an exponential rise timescale of only ~44 days, reaching a peak of 40-60x the former flux densities. The spectrum in the three bands used for VLBA monitoring (C, X, K) suggest a "gigahertz-peaked" spectrum while K-band VLBA monitoring detected the emergence of resolved components on either side of a compact core starting in February. Recent observations by the SMA (225 and 345 GHz) show a steady, flat spectrum in the sub-mm, above the expected level from the presumed jet at GHz frequencies, emission which may arise from compact corona observed in the X-rays. As part of a suite of ongoing multiwavelength monitoring, we request approximately weekly monitoring of the source at X-band (10 GHz) in semester 25A. The regular cadence allow us to detect sudden changes requiring rapid follow-up, such as the major flare exhibited in 2023. We will also resolve the radio variability timescale In compliment with data from an existing long-term twice-weekly monitoring program with Swft/XRT and probe the enigmatic connection between the sub-pc scale compact radio emission and the origin of the X-ray corona in AGN.

	•		
A Home	:= Active Requests	Email Templates	The Processing Settings

Last Updated an hour ago

6T13:39:00 🛱 26T13:16:54 🛱 0130.eb48076698.60732.55298982639 🛱 vd5b278b-972e-490d-a8a1-e4ea4d0c4e26 📮 evla/execblock/9d5b278b-972e-490d-a8a1-e4ea4d0c4e26 📮 es-analysts-test@listmgr.nrao.edu 📋

48076698.60732.55298982639.flagtemplate.txt 📝

Varcian 1 Worlflow Informati

MAKING ANOTHER VERSION

 After clicking on "create new version" you have the option to upload files, e.g. a cont.dat file to set the continuum ranges for a spectral line observation if findcont fails.

	Version 3 Files
	20A-156.sb37709531.eb38066641.58967.50257798611.flagtemplate.txt
	Version 3 Workflow Information
Create New Version	×
Parameters	re/aoc/cluster/pipeline/dsoc-test/workspaces/spool/tmpzd59_2ni
Input Files	
Browse No files selected.	
	Cancel Create Create New Version Cancel Version 3
← Back to Ac	ctive Requests
Staff Policies Diversity	

MAKING ANOTHER VERSION - II STD_CALIBRATION

No actions

- You will need to select the new version from the drop-down menu
- When you do that, • the PPR and flagtemplate (and any other file e.g. cont.dat) will be available to edit.

SKALION	Version 4 - CREATED
available. This version is still processing or has not been submitted.	Version 4 Parameters
	metadata =
	array_config : C
	bands : L
	is_srdp : false
	obs_end_time : 2020-04-28T12:49:33 📋
	obs_start_time : 2020-04-28T12:03:43 📋
	sdm_id : 20A-156.sb37709531.eb38066641.58967.50257798611 📋
	spl : uid://evla/execblock/854d387e-1d8b-4871-a1b2-2ec43bd996d3 📋
	product_locator = uid://evla/execblock/854d387e-1d8b-4871-a1b2-2ec43b
	sdmld = 20A-156.sb37709531.eb38066641.58967.50257798611 📋
	Version 4 Files
	20A-156.sb37709531.eb38066641.58967.50257798611.flagtemplate.txt

Version 4 DA Notes

🗹 DA Notes

uid://evla/execblock/854d387e-1d8b-4871-a1b2-2ec43bd996d3

ADDING A CONT.DAT FILE

- If the continuum subtraction is poor, a file called cont.dat can be uploaded to the files for follow-n imaging
 pipeline runs when making a new version. This is used to specify the exact range(s) of frequency to be fit for
 continuum. Note that this should not be added to cal+img reruns as the cont.dat file is also used by statwt.
 This should only be done by the stage-2 reviewer until we have more experience with the spectral line
 pipeline.
- cont.dat is a plain text file containing the continuum ranges per spectral window, per field, example (but check pipeline docs for recent format changes):

Field: G09_0850-0019 SpectralWindow: 17 NONE

SpectralWindow: 19 337.659971874~339.253995016GHz LSRK

SpectralWindow: 21

SpectralWindow: 25 349.755169752~351.067897111GHz LSRK 351.271057297~351.380451244GHz LSRK

EDITING

- Files can be edited directly in the interface
- Hitting "save"or "Save and Close" button will save the file to the database (note there are sometimes a few seconds of lag, so don't submit the new version immediately you finish editing).



QA STEPS

- SRDP: Once the stage-1 reviewer is satisfied with the calibration, they should complete the QA notes and hit "Send to Stage-2". The
 assigned stage-2 reviewer should then look at the data, and either:
 - If the calibration and imaging is good, make any final edits to the QA notes and hit "QAPass". There is also an option to add a message to the user to highlight any outstanding issues with the data ("QA Pass with message").
 - If only the calibration is good, the Stage-2 reviewer can hit the "QA Calibration-Only Pass" button (with optional message) and add a note about the image failing in the QA notes. They can then either not image the data at all, or launch a follow-on image job in which they can image with modified parameters/flagging.
 - If it is a QA2 pass but SRDP fail, then remove the SRDP check on the active requests page and hit QAPass.
 - Hit "return to Stage-1" with a note in the internal notes that describes the suggested action:
 - Change parameters/flagging and rerun.
 - Fail entire request (QA2 fail, calibration not archived and "Do not calibrate" set) (or the stage-2 reviewer can do this themselves).
- Non-SRDP:
 - The Stage-1 reviewer should hit the "Send to Stage-2" button (with no assigned Stage-2 reviewer) and QAPass (or fail) the
 request themselves. There is also the option to select a Stage-2 reviewer and send it to Stage-2 if the Stage-1 reviewer has a
 specific issue they would like investigated.

STAGE-2 REVIEW

std_calibration_and_imaging *

cun std_cambration_and_imaging for ingested Obse

Launch

SDM ID e.g. 13B-014.sb2915147:

Pause std_calibration_and_imaging

Request 🗸 🗡	Execution Status	NGAS Download Status	SDM ID	Bands	Array Configuration	Observation Start Time	SRDP	Current Processing Start Time	Stage 1 Reviewer T	Stage 2 Reviewer T
171740 SUBMITTED	Executing	Complete	25A- 063.sb47551688.eb47569198.60704.42012622685	с	A	2025-01- 29T10:04:59		02/20/2025, 12:54:50 PM	Reviewer: Assign Stage 1 Reviewer	Reviewer: Assign Stage 2 Reviewer
171739 SUBMITTED	Executing	Complete	25A- 063.sb47551688.eb47569198.60704.42012622685	С	A	2025-01- 29T10:04:59		02/20/2025, 12:53:32 PM	Reviewer: Assign Stage 1 Reviewer	Reviewer: Assign Stage 2 Reviewer
171712 SUBMITTED	Executing	Complete	24B- 268.sb47342734.eb47910798.60725.47816511574	C, K, Q	A->D	2025-02- 19T11:29:57		02/19/2025, 08:55:19 AM	Reviewer: Assign Stage 1 Reviewer	Reviewer: Assign Stage 2 Reviewer
171711 SUBMITTED	Stage 2 Review	Complete	24B- 301.sb47901836.eb47910372.60725.2257284838	C, L, S	A->D	2025-02- 19T05:26:02		02/19/2025, 01:55:21 AM	Reviewer: Drew Medlin	Reviewer: Mark Lacy
171710 SUBMITTED	Awaiting QA	Complete	24B- 301.sb47901589.eb47909133.60725.10749328704	C, L, S	A->D	2025-02- 19T02:34:48		02/18/2025, 10:31:18 PM	Reviewer: Assign Stage 1 Reviewer	Reviewer: Assign Stage 2 Reviewer
	Austitian OA	Complete	240	C C	A >D	2025 02	_	00/10/0005	Paviauori	Paviauari

Items per page: 40 - 1 - 40 of 62 < >

STAGE-2

NRAO Archive

Workspaces Workspaces Request #171711 summtrp :- Created 2 days ago Capability Stop CALIBRATION_AND_MAGING Image: Comparing the compar	Jansky-VLA, ALMA Cycle 1+ and VLBA data					
Workspaces Request #171711 Created 2 days ago Capability Stor CALIBRATION, AND, IMAGING Version Version Version Version Stage 1 Review Stage 1 Review Stage 1 Review Stage 2 Review Construction Construction Version Construction Version Version Version Version Version Version Version Version Version <th>Please note that this is the Test v</th> <th>ersion of Workspaces.</th> <th></th> <th></th> <th></th> <th></th>	Please note that this is the Test v	ersion of Workspaces.				
Request #171711 Immonip i: Cracted 2 days ago Capability StD_CALIBRATION_AND_IMAGING Image: Cracted 2 days ago Cracted 2 days ago Caracteriation Image: Cracteriation Stage 1 Review Image: Cracteriation Stage 2 Review Image: Cracteriation Stage 2 Review Image: Cracteriation Stage 2 Review Image: Cracteriation Image: Cracteriation	Vorkspaces		😭 Home	∃ Active Requests	Email Templates	\$ Processing Settings
Created 2 dys ago Lat Updated matchesize Capability Image: Capability Image: Capability Image: Capability <	Request #171711 SUBMITTED :-					
Capability DC_CALIBRATION_AND_IMAGING	Created 2 days ago				Last l	Jpdated a minute ago
✓ View Proposal Information ✓ View Weblog ✓ Lift Cd Notes Stage 1 Review ✓ Stage 2 ✓ Fail Cd. ✓ Od. Ø Calibration: Only Pass With Ø Calibration: Only Pass With Ø Calibration: Ø Calibration: Ø Calibration: Only Pass With Ø Calibration: Ø Calibration: Only Pass With Ø Calibration: Ø Only Pass With Ø Only Pass With Ø Only Pass With Ø Only Pass With Ø Only Pass With Ø Only Pass With Ø Only Pass With Ø Only Pass With Ø Only Pass With Ø Only Pass With Ø Only Pass With Ø Only Pass With Ø Only Pass With Ø Only Pass With Ø Only Pass With Ø Only Pass With Ø	Capability STD_CALIBRATION_AND_IMAGING	Version 1 - RUNNING	STAGE 2 REV	IEW		
Image: Stage 1 Review Image: Stage 1 Review Image: Stage 2 Revi		Version 1 Parameters				
Version 1 Files	Stage 1 Review Stage 1 Review Stage 2 Review Stage 2 Review A Calibration-Only Pass Only Pass Message Stage 1 Review Stage 2 Review Stage 1 Stage 2 Review Stage 2 Review Stage 2 Review Stage 1	metadata = array_config : A->D bands : C, L, S is_srdp : false obs_end_time : 2025-02-19T0 obs_start_time : 2025-02-19T0 obs_start_time : 2025-02-19T0 sdm_id : 24B-301.sb47901836 spl : uid://evla/execblock/5ffbf product_locator = uid://evla user_email = workspaces-ar	16:28:52 📋 05:26:02 📋 6.eb47910372 1723-667e-441 1/execblock/5f nalysts-test@l	2.60725.2257284838 ba-908e-11c7a7cdead fbf723-667e-44ba-908 listmgr.nrao.edu 📋	0 9 0 Be-11c7a7cdead9 1	
PPR.xml		Version 1 Files 24B-301.sb47901836.eb479 PPR.xml	10372.60725	.2257284838.flagtemp	plate.txt 📝	

O' Workspaces

IMAGE QA

 CARTA opens in directory below products/working, allowing examination of either directory for diagnostic purposes.



Version 1 * ROMAING STAGE 2 REVIEW
sion 1 Parameters
metadata) =
array_config : A->D
bands : C, L, S
is_srdp : false
obs_end_time : 2025-02-19T06:28:52 📋
obs_start_time : 2025-02-19T05:26:02 📋
sdm_id : 24B-301.sb47901836.eb47910372.60725.2257284838 📋
spl : uid://evla/execblock/5ffbf723-667e-44ba-908e-11c7a7cdead9 📋
product_locator) = uid://evla/execblock/5ffbf723-667e-44ba-908e-11c7a7cdead9 📋
user_email) = 🛛 workspaces-analysts-test@listmgr.nrao.edu 📋

Version 1 Files

24B-301.sb47901836.eb47910372.60725.2257284838.flagtemplate.txt 🗹

PPR.xml 🗹

Version 1 Workflow Information

htcondor_iterations = 1
processing_dir = /lustre/aoc/cluster/pipeline/dsoc-test/workspaces/spool/tmpebaphn50





FOLLOW-ON IMAGE REQUEST



IMAGING

IRAO

Vorkspaces	Home? Analyst Board Active Requests Jobs Email Templates
Request #93 CREATED :-	
Created 3 minutes ago	Last Updated 3 minutes ago
Capability STD_CMS_IMAGING For the request: Request #92	Version 1 CREATED Version 1 Parameters
No actions available. This version is still processing or has not been submitted.	cms_path = metadata = array_config: C bands: L bs_std: L is_srdp: true obs_end_time: 2020-04-29T12:52:18 1 obs_start_time: 2020-04-29T12:52:18 1 obs_start_time: 2020-04-29T12:06:28 1 sdm_id: 20A-156.sb37709431.eb38072288.58968.5044844213 1 spl: uid://evla/execblock/2441a2ef-eadf-472e-be9e-291cccb2b4b8 1 parent_request_id = 92 product_locator = uid://evla/execblock/2441a2ef-eadf-472e-be9e-291cccb2b4b8 1 sdmid = 20A-156.sb37709431.eb38072288.58968.5044844213 1 user_email = workspaces-analysts-test@listmgr.nrao.edu 1
	Version 1 Piles PPR.xml C Version 1 DA Notes C DA Notes
	+ Create New Version Submit Version 1

IMAGE QA

- CARTA opens in directory below products/working, allowing examination of either directory for diagnostic purposes.
- Unlike calibration, multiple versions of images CANNOT be ingested, so images should be SRDP.
 (Special case of time critical, where non-SRDP images can be considered.)



BEST PRACTICES/HINTS AND TIPS/TROUBLESHOOTING

- There is a limit of about 20 jobs that will start at once due to archive thread limitations. Even this might be a bit large if the archive is busy. If starting from a backlog (e.g. end of move), we suggest starting no more than 10 at once, waiting ~1hr for the downloads to clear (indicated in the "NGAS Download Status" column), then starting another ~10, and clear the queue before setting the Processing Settings to RUN).
- If the job errors or appears to hang a good place to look is the condor.log file
 - Go to the processing_dir listed on the request page, the condor.log file is in the top level of the spool directory.
 - Clues that things went wrong are phrases like "job evicted" in the log.
- Data are not copied back to the processing directory until the job is complete.
 - The wf_inspector tool will allow you to check on a running job
 - Login to mcilroy as vlapipe, then activate_profile dsoc-prod, go to /lustre/aoc/cluster/pipeline/dsoctest/workspaces/sbin and run wf_inspector <req no.> -v <version> e.g. wf_inspector 96 –v 4 to look at req 96, version 4.

CANCELLING REQUESTS AND VERSIONS

- A request can be cancelled on the request page by going to the drop-down menu on the right of the status in the top-left and selecting "Cancel this request". Note that this will delete all versions of the request.
- A version can be cancelled by clicking on the "Cancel version" button on the bottom right. Note that the first version can not be canceled as the weblog from the initial version needs to be archived at the end of the process.

							9 - 1	. –	
Request #78 SUBMI	7 0	1-							
Created a day ago		Cancel this request							Last U
Capability		No action		Versi	ons				
STD_CALIBRATION					/ersion 2 💌 🗖	UNNING			
				Ľ					

No actions available. This version is still processing or has not been submitted.

Ve	rsion 2 Parameters
	metadata =
	array_config : C
	bands : L
	is_srdp : false
	obs_end_time : 2020-03-25T15:26:37 📋
	obs_start_time : 2020-03-25T14:40:44 📋
	sdm_id: 20A-156.sb37709331.eb37993381.58933.61138621528 📋
	spl : uid://evla/execblock/5283d4ff-0fc6-46e6-80bc-911e07b458ee
	product_locator = uid://evla/execblock/5283d4ff-0fc6-46e6-80bc-911e07b458ee
	sdmld = 20A-156.sb37709331.eb37993381.58933.61138621528

Version 2 Files

PPR.xml 🗹

Version 2 Workflow Information

htcondor_iterations = 1

processing_dir = /lustre/aoc/cluster/pipeline/dsoc-test/workspaces/spool/tmpwjopavc0

8 Cancel Version

+ Create New Version

Version 2 DA Notes

PROCESSING SETTINGS



Check with Drew/Amy before changing!



DATA DELIVERY AND EMAILS

- Data delivery is handled via automated emails that are sent after the data are ingested.
- Email templates are available to edit on the "email templates" tab at the top-right of the interface.
- Note that both the Std Calibration Complete and Std Cms Imaging Complete emails have two versions, one for SRDP and one for non-SRDP, the software will automatically pick the correct email.
- Please do not edit the emails without talking to me, Amy and/or Drew!

EMAIL TEMPLATES



Check with Drew/Amy before changing!





The National Radio Astronomy Observatory is a facility of the National Science Foundation operated under cooperative agreement by Associated Universities, Inc.