

# **CRITERIA-3**

3.5 Collaboration

# 3.5.1: MoUs/Linkages/Collaboration 2017 - 22

# Linkage between Dr. Biju K G (Associate Professor, Department of Physics, WMO Arts and Science College, Muttil) vs. National Centre for Radio Astrophysics

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# National Centre for Radio Astrophysics

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

PUNE UNIVERSITY CAMPUS, POST BAG NO.3, GANESHKHIND, PUNE 411 007, INDIA Telephone: (020) 2571 9228, 2571 9111; Extn: 228 Fax: 2569 7257 Email: ishwar@ncra.tifr.res.in

Prof. C.H. Ishwara Chandra Professor (H) and Dean, GMRT Observatory

July 4, 2023

### Certificate of Collaboration for Dr. Biju KG

Dr. Biju KG (WMO Arts & Science College, Muttil) has been involved in research collaboration with the National Center for Radio Astrophysics (NCRA) since the beginning of his research in Astronomy in 2010. This collaboration has been facilitated through effective scientific discussions with NCRA scientists and by utilizing the facilities and training programs provided by NCRA for radio astronomy data reduction. As Principal Investigator (PI), he has submitted seven proposals for radio observations to the Giant Meter-wave Radio Telescope (GMRT), as well as four proposals as a co-investigator (Co-I). Out of these 11 proposals, ten were accepted for observation, and I was a co-investigator in nine of these projects. His recent proposals as a Co-I for GMRT observation include: 1. "GMRT mapping of eight episodic radio source candidates," and 2. "Exploring Episodic Jet Activity in Radio Loud AGNs: A Morphology-Independent Search and uGMRT Observation of Ten Candidate Sources.

With regards and best wishes,

Yours sincerely, Ishwara Chandra C. H

entre for Radio Ganeshkhind, PUNE - 411 007 of Fundame

Giant Metrewave Radio Telescope (GMRT), A National Project of the Government of India

1



## **ACTIVITY REPORT**

## LINKAGES WITH NCRA & NEWMAN COLLEGE.

Dr. Biju KG, Associate professor of Physics, WMO Arts and Science College, Muttil is having collaborative research activities with Prof. Ishwara Chandra CH (NCRA, Pune) and Dr. Joe Jacob and Ms Aparna Raj of the Newman college, Thodupuzaha. During the 2017- 2022 Dr. Biju KG is the co-investigator (Co-I) of the radio astronomy project entitled "GMRT mapping of eight episodic radio source candidates". This project is approved in the 42<sup>nd</sup> GMRT observational cycle with id 42\_067. Ms. Aparna Raj (Assistant Professor, CMS college, Kottayam & Research Student, Newman college, Thodupuzha) is the Principal Investigator. Prof. Ishawara Chandra and Dr. Joe Jacob are also Co-I of this project.

## Link: https://wmocollege.ac.in/uploads/GMRT\_Project1.pdf

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1	Screen shot of NCRA Archive and Proposal System(NAPS)- Biju Login
2	Coversheet of the project 42_067:" GMRT mapping of eight episodic radio source candidates"
3	E mail regarding observation on 16-07-2022
4	E mail regarding observation on 17-07-2022
5	E mail regarding observation on 18-07-2022
6	E mail regarding observation on 22-07-2022
7	E mail regarding observation on 04-08-2022
8	E mail regarding observation on 04-08-2022

## 1. NCRA Archive and Proposal System (NAPS) Screen shot.

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# Department of Physics WMO Arts & Science College, Muttil

### 2. Face sheet of the approved project.



### GMRT Observing Application Cycle No: 42 Primary Backend: GWB

(Note: This PDF is generated by version 1.44 coverdant generator script running is MIgX mode)

Proposal Code: 42,067

Submission Date: 15-01-2022

Title: GMRT mapping of eight episodic radio source candidates

#### Related Proposals:

Abstract:

Radio loud Active Galactic Nuclei (AGN) are observed to exhibit episodic jet activity with the active phases being short term compared to the life time of the galaxy. The search for such episodic radio sources is a tedious process and most of the known ones were identified based on their morphology with clear two pairs of lobes (double-double radio sources). We have developped a new morphology indepdendent method to look for radio sources with episodic activity based on the spectral index at low and high radio frequencies. The goal of this search is to increase the number of known episodic sources which may not follow clear double-double morphology. Using this technique, we have found over 100 camdidate episodic radio sources by cross matching VLSS, TGSS, NVSS and PMN catalognes at frequencies ranging from 74 MHz to 4.8 GHz. Here we propose to observe eight new episodic radio source candidates from our sample with uGMRT at 250–500 MHz (band-3) and 550–850 MHz (band-4). These sources have significantly excess radio emission at low frequencies as compared to high frequencies (concave spectra). The main goals of this study is to understand its morphology, spectral index properties and to understand the origin of excess emission at low radio frequencies. We intend this observation to be a pilot study leading to an extensive survey identifying larger number of episodic sources. We request two hours per band for all the eight objects; 16 hours at 250–500 MHz (band-3) and another 16 hours at 550–850 MHz (band-4) with a total of 32 hours.

#### Proposers:

The first name on the list of proposers is the Principal Investigator for this proposal.

Proposor	Institution	Observer	Email	Nationality	PhD Student
Aparna Raj	Newman College	Yes	rajaparna459 gmnil.com	INDIA	Yes
BLJU.K.G	WMOC	No	kgbiju420gmail.com	INDIA	No
Joe Jacob	Newman College	No	drjoephysics@gmail.com	INDIA	No
C.H. IshwaraChandra	NCRA	No	ishwar@nera.tifr.res.in	INDIA	No

#### Phd Students table:

Student	Project Title	Year of Comple- tion
Aparna Raj	Investigation of the nature and environmental interactions of spisodic nadio sources	2023

#### **PI** Contact Details:

Address	Moolayil House
	Changanacherry
	Kurumpanadom P.O



GTAC Obs Log : 14386 1 message	
gtaclog@gmrt.ncra.tifr.res.in <gtaclog@gmrt.ncra.tifr.res.in> To: ishwar@ncra.tifr.res.in, drjoephysics@gmail.com, kgbiju42@gmail.com, raj</gtaclog@gmrt.ncra.tifr.res.in>	sat, Jul 16, 2022 at 9:12 A apama45@gmail.com
GTAC Observation Log	
Date : 16/07/2022     Observation Sr. No. : 14386     Observer's Aparna Raj, BJULK.G, Joe Jacob, C.H. IshwaraChandra     Observer's Email : rajapama45@gmail.com, kgbiju42@gmail.com, drjoep     Project Name : GMRT mapping of eight episodic radio source candidates     Project Code : 42_067     Operator(s) : Deepak, Shilpa, Surender     Command File : /data1/gtac/cmd/42_067_16jul2022_gsb.lta, /gwbifrdata2/16jul/     LtA File : /gsbifrdata1/16jul/42_067_16jul2022_gsb.lta, /gwbifrdata2/16jul/     LogFlag File :	y .
Observation 17-07-2022	

GTAC Obs Log: 14394

1 message

gtaclog@gmrt.ncra.tifr.res.in <gtaclog@gmrt.ncra.tifr.res.in> To: ishwar@ncra.tifr.res.in, drjoephysics@gmail.com, kgbiju42@gmail.com, rajaparna45@gmail.com

GTAC Observation Log

- 1. Date : 17/07/2022
- Date : 17/07/2022
   Observation Sr. No. : 14394
   Observer: Apama Raj, BUU.K.G. Joe Jacob, C.H. IshwaraChandra
   Observer's Email : rajapama45@gmail.com, kgbiju42@gmail.com, drjoephysics@gmail.com, ishwar@ncra.tifr.res.in
   Project Name : GMRT mapping of eight episodic radio source candidates

- Project Name Gink Finapping of egrit episodic faulo source candidates
   Project Code : 42\_067
   Operator(s) : Nilesh
   Command File : /data1/gtac/cmd/42\_067/42\_067\_17Jul2022\_1800\_cmd.py
   LTA File : /gsbifrdata/17jul/42\_067\_17jul2022\_gsb.lta, /gwbifrdata/17jul/42\_067\_17jul2022\_gwb.lta
   LogFlag File :

ANTENNA SETTINGS :

- 11. RF Band(MHz) & Solar Attn(dB)- RF1 : 306 MHz ,RF2 : 306 MHz, SA1 : 0 dB, SA2 : 0 dB 12. Ist LO (MHz) & IVth LO (MHz): ILO1 : 255 MHz, ILO2 : 255MHz , IVLO1 : 51 MHz, IVLO2 : 51 MHz 13. IF Attn(dB) , IF BW(MHz) & IF ALC : IF-CH1 : 4+14 dB, 32 MHz,ON, IF-CH2 : 4+14 dB, 32 MHz,ON

### 5. Observation on 18-07-2022

GTAC Obs Log : 14396	
gtaclog@gmrt.ncra.tifr.res.in ≺gtaclog@gmrt.ncra.tifr.res.in> To: ishwar@ncra.tifr.res.in, drjoephysics@gmail.com, kgbiju42@gmail.com, rajapama45@gmail.com	Mon, Jul 18, 2022 at 6:01 AM
GTAC Observation Log	
1. Date : 18/07/2022 2. Observation Sr. No : 14390 3. Observer: Apara Rig, BJUJ.K.G. Joe Jacob, C.H. IshwaraChandra 4. Observer's Email : rajapama40(ggmail.com, kphjul42(ggmail.com, drjoephysios@gmail.com, lshv 5. Project Name : OMRT mapping of eight episodic radio source candidates 6. Project Code : 42_087 7. Operator(s) : Surender 8. Command File : /dstaft/gtac/cmd/42_087/18_067_18Jul2022_0400_cmd py 0. LTA File : /dsbftdata11/8jul/42_087_18jul2022_gsb.lta, /gwbiftdata18jul/42_087_18jul2022_gwb.lt 0. LogFage File :	
ANTENNA SETTINGS :	
11. RF Band(MHz) & Solar Atin(dB)- RF1 : 306 MHz, RF2 : 306 MHz, SA1 : 0 dB, SA2 : 0 dB 12. IstL0 (MHz) & IVIN L0 (MHz) KL01 : 256 MHz, IL02 : 256 MHz, IVL01 : 61 MHz, IVL02 : 61 M 13. IF Annida), IF BW(MHz) & IF ALC (IF-CH1 : 41-14 dB, 27 MHz, N), IF-CH2 : 41-14 dB, 28 MHz,	

Sun, Jul 17, 2022 at 6:14 PM



#### 6. Observation on 22-07-2022

Bit Action       Fri. Jul 22, 2022 at 600 AM         CTAC Observation Cost fitres in, dipephysics@gmail.com, kpbjiu42@gmail.com, rajapama45@gmail.com       Fri. Jul 22, 2022 at 600 AM         CTAC Observation Log       Fri. Jul 22, 2022 at 600 AM         1. Date: 2207/2021       Cobservation Log         2. Observation Si: No: 1560       Fri. Jul 22, 2022 at 600 AM         3. Observation Si: No: 1560       Fri. Jul 22, 2022 at 600 AM         3. Observation Si: No: 1560       Fri. Jul 22, 2022 at 600 AM         4. Observation Si: No: 1560       Fri. Jul 22, 2022 at 600 AM         5. Project Name: Si: OWNT mapping of gith episodo radio source candidates       Fri. Jul 22, 2022 at 600 AM         6. Ormann File: Ideatal Tabacher Adv. 207142, 2007 22Jul/2022 gmb In: mailtoxidipoephysics@gmail.com       Fri. Jul 22, 2022 at 600 AM         10. Loging File:       Antennak SettTINOS :       Fri. Jul 22, 2022 at 600 AM AL, 10, 2002 Gmd 29         11. File: Gmbit Tabacher Adv. 207142, 2007 22Jul/2022 gmb In: mapping Adv. 2007 22Jul/2022 gmb In: mapping Adv. 2007 22Jul/2022 gmb In: Mapping Adv. 2007 22Jul/2022 gmb In: Source Code Set 2007       Fri. Jul 22, 2022 at 600 AM         II. File: Gmbit Tabacher Adv. 207142, 2007 22Jul/2022 gmb In: Mapping Adv. 2007 24Jul/2023 200 AM         II. File: Mapping Adv. 2007 24Jul/202 200 AM AL, 10 C, 16 Adv. 2007 Adv. 2007 Adv.	🌱 Gmail	Biju l	
s: shwarifforca tifres in, dejephysics@gmall.com, kgbiu42@gmall.com, rajapama46@gmail.com GTAC Observation Log 1. Date: 2207/202 2. Observation Sin No: 11400 0. Observation Sin No: 11400 9. Project Name: GMRT mapping of eight episodic radio source candidates 9. Project Name: GMRT mapping of eight episodic radio source candidates 9. Project Code: 42, 007 (mailto:drijoephysics@gmail.com) 8. Command File: (data Upaciend42, 007/42, 007, 22,0/2022, gab Ita 10. LogFlag File: 11. RF BandUHA: So Solar AmidBy: RF1 : 501 MHz, RF2: 501 MHz, SA1 : 0 dB, SA2 : 0 dB 12. IsLO (MHz): B Solar AmidBy: RF1 : 501 MHz, RF2: 501 MHz, SA1 : 0 dB, SA2 : 0 dB 12. IsLO (MHz): B Solar AmidBy: RF1 : 501 MHz, RF2: 501 MHz, SA1 : 0 dB, SA2 : 0 dB 12. IsLO (MHz): B Solar AmidBy: RF1 : 501 MHz, RF2: 501 MHz, SA1 : 0 dB, SA2 : 0 dB 13. Is F AmidBy: Is F BandUHA: 10. 1: 500 MHz, ILO2 : 540 MHz, ULO1 : 511 MHz, ULO2 : 51 MHz 13. IF AmidBy: Is F BandUHA: 10. 1: 540 MHz, ILO2 : 540 MHz, ULO1 : 511 MHz, VLO2 : 51 MHz 058 SETTINOS : Descrution on 04-08-2022 Descrution on 04-08-2022 Descrution on 04-08-2022 Thu, Aug 4, 2022 at 8:20 PM 051AC Obs Log : 14460 message 1. Data : 04080202 1. Data : 04080402 1. Data : 04080402			
1. Date : 2207/2022 2. Observation Sr. No. : 14499 5. Observer : Sama Raj, BUU K.G., Jee Jacob, C.H. IshwaraChandra 4. Observer : Sama Raj, BUU K.G. Jee Jacob, C.H. IshwaraChandra 6. Project Code : 42,007 7. Operator(s): Rupping 8. Command File : :Kata ItipateIndi42_067/42_067_22Jut2022_0200_cmd.py 1. TAF Ie : :gbtoffasta It22/uH42_067_22Jut2022_0200_cmd.py 1. TAF Ie : :gbtoffasta It22/uH42_067_22Jut2022_gbtoffasta It22/uH42_067_22Jut2022_gwb.tta 10. LogFlag File : ANTENNA SETTINGS : 11. RF Bacillube: I Solv MtnuB9. RF1 : 501 Mthz, RF2 : 501 Mthz, SA1 : 0.4B, SA2 : 0.4B 12. Ist LO (Mthz) & Solv Attnid9. RF1 : 501 Mthz, ILO : : 640Mthz, IVLO : : 51 Mthz, UVLO : : 51 Mthz 13. IF AttnidB). IF BW(Mthz) & IF ALC : IF-CH1 : 4+12 dB, 32 Mthz.ON, IF-CH2 : 4+12 dB, 32 Mthz.ON GSB SETTINGS : 20 20 20 20 20 20 20 20 20 20			Fri, Jul 22, 2022 at 6:00 AM
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7. Opérator(s) : Rupčing	2. Observation Sr. No. : 14409 3. Observer : Apama Raj, BIJU.K.G, Joe Jacob, C. 4. Observer's Email : rajapama45@gmail.com, kgl 5. Project Name : GMRT mapping of eight episodic	oiju42@gmail.com, drjoephysics@gmail.com, ishwar@ncra.tif	r.res.in
9. LTA File : (gsbirddat1/22(u)/42_067_22)u/2022_gsb.ta, (gwbirddata1/22)u/42_067_22)u/2022_gwb.ta 10. LogFlag File : ANTENNA SETTINGS : 11. RF Band(MHz) & Solar Attn(dB): RF 1 : 601 MHz, RF2 : 501 MHz, SA1 : 0 dB, SA2 : 0 dB 12. Ist L0 (MHz) & With(Jz): ILO 1 : 540 MHz, ILO 2 : 640 MHz, (VLO 1 : 61 MHz, IVLO 2 : 61 MHz 13. IF Attn(dB), IF BW(MHz) & IF ALC : IF-CH1 : 4+12 dB, 32 MHz, ON, IF-CH2 : 4+12 dB, 32 MHz, ON GSB SETTINGS : 20bservation on 04-08-2022 20bservation on 04-08-2022 20bservation on 04-08-2022 20c Gmail Biju koonammakkil george <kgbiju42@gmail.com> 6TAC Obs Log : 14460 message 1zalog@gmrt.ncra.tifr.res.in <gtaclog@gmrt.ncra.tifr.res.in> 6 ishwar@ncra.tifr.res.in, drjoephysics@gmail.com, kgbiju42@gmail.com, rajapama45@gmail.com 6TAC Observation Log 1. Date : 0408/2022 2. Observation S: No : 14460 3. Observation S: No : : : 14460 3. Observation S: No : : : : : : : : : : : : : : : : : :</gtaclog@gmrt.ncra.tifr.res.in></kgbiju42@gmail.com>	7. Operator(s) : Rupsing		
11, RF Band(MHz) & Solar Attn(dB)- RF1 : 591 MHz, RF2 : 591 MHz, SA1 : 0 dB, SA2 : 0 dB 12, Ist LO (MHz) & IVIN LO (MHz), ILO1 : 540 MHz, ILO2 : 540 MHz, IVLO1 : 51 MHz, IVLO2 : 51 MHz 13. IF Attn(dB), IF BW(MHz) & IF ALC : IF-OH1 : 4+12 dB, 32 MHz,ON, IF-CH2 : 4+12 dB, 32 MHz,ON GSB SETTINGS : Dobservation on 04-08-2022	9. LTA File : /gsbifrdata1/22jul/42_067_22jul2022_g	7_22Jul2022_0200_cmd.py jsb.lta, /gwbifrdata1/22jul/42_067_22jul2022_gwb.lta	
12. IsrLO (Mi-E2) & IVN LO (Mi-E2) ILO1: 540 MH-2, ILO2: 640 MH-2, IVLO1: 51 MH-2, IVLO2: 51 MH-2 13. IF Attn(dB), IF BW(MH2) & IF ALC : IF-CH1 : 4+12 dB, 32 MH2,ON, IF-CH2 : 4+12 dB, 32 MH2,ON GSB SETTINGS : Dbservation on 04-08-2022	ANTENNA SETTINGS :		
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Biju koonammakkil george <kgbiju42@gmail.com< td="">         Biju koonammakkil george <kgbiju42@gmail.com< td="">         GTAC Obs Log : 14460 message         taclog@gmrt.ncra.tifr.res.in <gtaclog@gmrt.ncra.tifr.res.in> fo: ishwar@ncra.tifr.res.in <gtaclog@gmrt.ncra.tifr.res.in> fo: ishwar@ncra.tifr.res.in <gtaclog@gmail.com, kgbiju42@gmail.com,="" rajapama45@gmail.com<="" td="">         GTAC Observation Log         1. Date : 04/08/2022         2. Observation Sr. No. : 14480         3. Observer's Email : rajapama45@gmail.com, kgbiju42@gmail.com, drjoephysics@gmail.com, ishwar@ncra.tifr.res.in         5. Project Name : GMRT mapping of eight episodic radio source candidates         6. Project Name : GMRT mapping of eight episodic radio source candidates         7. Operator(s) : Deepak, Nilesh, Rupsing         8. command File : /data 1/gtac/emd/42_067/04Aug2022_1800_cmd.py         9. LTA File : /data 1/gtac/emd/42_067/04Aug2022_1800_cmd.py         9. LTA File : /gsbifdata1/04aug/42_067_04aug2022_gsb.lta, /gwbifdata/04aug/42_067_04aug2022_gwb.lta         10. LogFlag File :</gtaclog@gmail.com,></gtaclog@gmrt.ncra.tifr.res.in></gtaclog@gmrt.ncra.tifr.res.in></kgbiju42@gmail.com<></kgbiju42@gmail.com<>	000 001111000.		
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<ol> <li>Project Code : 42_067</li> <li>Operator(s) : Deepak, Nilesh, Rupsing</li> <li>Command File : /data1/gtac/cmd/42_067_04Aug2022_1800_cmd.py</li> <li>LTA File : /gsbiftdata1/04aug/42_067_04aug2022_gsb.lta, /gwbiftdata/04aug/42_067_04aug2022_gwb.lta</li> <li>LogFlag File :</li> </ol>	bservation on 04-08-2022 Gmail GTAC Obs Log : 14460 message taolog@gmrt.ncra.tifr.res.in <gtaclog@gmrt.ncc o ishwar@ncra.tifr.res.in <dtaclog@gmrt.ncc GTAC Observation Log 1. Date : 04/08/2022 2. Observation Sr. No. : 14460</dtaclog@gmrt.ncc </gtaclog@gmrt.ncc 	ra.tifr.res.in> m, kgbiju42@gmail.com, rajaparna45@gmail.com	
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9. LTA File : /gsbifrdata1/04aug/42_067_04aug2022_gsb.lta, /gwbifrdata/04aug/42_067_04aug2022_gwb.lta 10. LogFlag File :	bservation on 04-08-2022 Gmail GTAC Obs Log : 14460 message taolog@gmrt.ncra.tifr.res.in <gtaclog@gmrt.ncra 0.="" 04="" 08="" 14460="" 2022="" 42_067<="" :="" date="" eight="" email="" episo="" gmrt="" gtac="" log="" mapping="" name="" no.="" observation="" observer's="" ode="" of="" project="" rajapama45@gmail.com,="" sr.="" td=""><td>ra.tifr.res.in&gt; m, kgbiju42@gmail.com, rajapama45@gmail.com C.H. IshwaraChandra kgbiju42@gmail.com, drjoephysics@gmail.com, ishwar@n</td><td>Thu, Aug 4, 2022 at 8:20 PM</td></gtaclog@gmrt.ncra>	ra.tifr.res.in> m, kgbiju42@gmail.com, rajapama45@gmail.com C.H. IshwaraChandra kgbiju42@gmail.com, drjoephysics@gmail.com, ishwar@n	Thu, Aug 4, 2022 at 8:20 PM
10. LogFlag File :	bservation on 04-08-2022 Gmail GTAC Obs Log : 14460 message taclog@gmrt.nora.tifr.res.in <gtaclog@gmrt.nor o: ishwar@nora.tifr.res.in <gtaclog@gmrt.nor GTAC Observation Log 1. Date : 04/08/2022 2. Observer: Aparna Raj, BIU/K.G. Joe Jacob, 4. Observer: Spana Raj, BIU/K.G. Joe Jacob, 5. Project Name : GMRT mapping of eight episo 6. Project Code : 42_067 7. Operator(s) : Deepak, Nilesh, Rupsing</gtaclog@gmrt.nor </gtaclog@gmrt.nor 	ra.tifr.res.in> m, kgbiju42@gmail.com, rajaparna45@gmail.com C.H. IshwaraChandra kgbiju42@gmail.com, drjoephysics@gmail.com, ishwar@n dic radio source candidates	Thu, Aug 4, 2022 at 8:20 PM
	Boservation on 04-08-2022     Gmail     Gmail     Grac Obs Log : 14460     message     taclog@gmrt.ncra.tifr.res.in.drjoephysics@gmail.cc         GTAC Observation Log     1. Date : 04/08/2022     2. Observation Sr. No. : 14480     3. Observer : Aparna Raj, BIJU.K.G. Joe Jacob,     4. Observation Sr. No. : 14480     3. Observer : Aparna Raj, BIJU.K.G. Joe Jacob,     5. Project Xode : 42_087     7. Operator(s) : Deepak, Nilesh, Rupsing     8. Command File : /data/tgtac/cmd/42_087/42_0	ra.tifr.res.in> m, kgbiju42@gmail.com, rajaparna45@gmail.com C.H. IshwaraChandra kgbiju42@gmail.com, drjoephysics@gmail.com, ishwar@n dic radio source candidates 2067_04Aug2022_1800_cmd.py	Thu, Aug 4, 2022 at 8:20 PM ora.tifr.res.in
	bservation on 04-08-2022 Gmail Gmail GTAC Obs Log : 14460 message taclog@gmt.nora.tifr.res.in <gtaclog@gmt.nora isikwar@nora.tifr.res.in <gtaclog@gmt.nora GTAC Observation Log 1. Date : 04/08/2022 2. Observation Sr. No. : 14460 3. Observer's Email : rajapama46@gmail.com, 5. Project Name : GMRT mapping of eight episo 8. Project Code : 42_087 7. Operator(s) : Deepak, Nilesh, Rupsing 8. Command File : /data1/gtac/cmd/42_087/42_0 9. LTA File : /data1/gtac/cmd/42_087/42_0</gtaclog@gmt.nora </gtaclog@gmt.nora 	ra.tifr.res.in> m, kgbiju42@gmail.com, rajaparna45@gmail.com C.H. IshwaraChandra kgbiju42@gmail.com, drjoephysics@gmail.com, ishwar@n dic radio source candidates 2067_04Aug2022_1800_cmd.py	Thu, Aug 4, 2022 at 8:20 PM ora.tifr.res.in



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GTAC Obs Log : 14461

Biju koonammakkil george <kgbiju42@gmail.com>

Thu, Aug 4, 2022 at 10:02 PM

1 message

gtaclog@gmrt.ncra.tifr.res.in <gtaclog@gmrt.ncra.tifr.res.in> To: ishwar@ncra.tifr.res.in, drjoephysics@gmail.com, kgbiju42@gmail.com, rajapama45@gmail.com

GTAC Observation Log

- 1. Date : 04/08/2022
  2. Observation Sr. No. : 14461
  3. Observer : Aparna Raj, BJUJ.K.G, Joe Jacob, C.H. IshwaraChandra
  4. Observer : Aparna Raj, BJUJ.K.G, Joe Jacob, C.H. IshwaraChandra
  5. Project Name : GMRT mapping of eight episodic radio source candidates
  6. Project Name : GMRT mapping of eight episodic radio source candidates
  7. Operator(s) : Deepak, Nilesh, Rupsing
  8. Command File : /data1/gta2/cmd/42\_067/42\_067\_04Aug2022\_2000\_cmd.py
  9. LTA File : /gsbifdata1/04aug/42\_067\_04aug2022\_gsb.lta.1. /gwbifrdata/04aug/42\_067\_04aug2022\_gwb.lta.1
  10. LogFlag File :