

GTAC observing inputs

Project Information:

This is the user's project information inputs

1. User's Name(s):
2. User's email address:
3. GTAC Code:
4. Project Title (Very short title):
5. Observing slot start:
6. Observing slot end:
7. Observing type:

Note: Fill up the field no. 1 to 6 (do not keep empty). For field no 7, select at least one option.

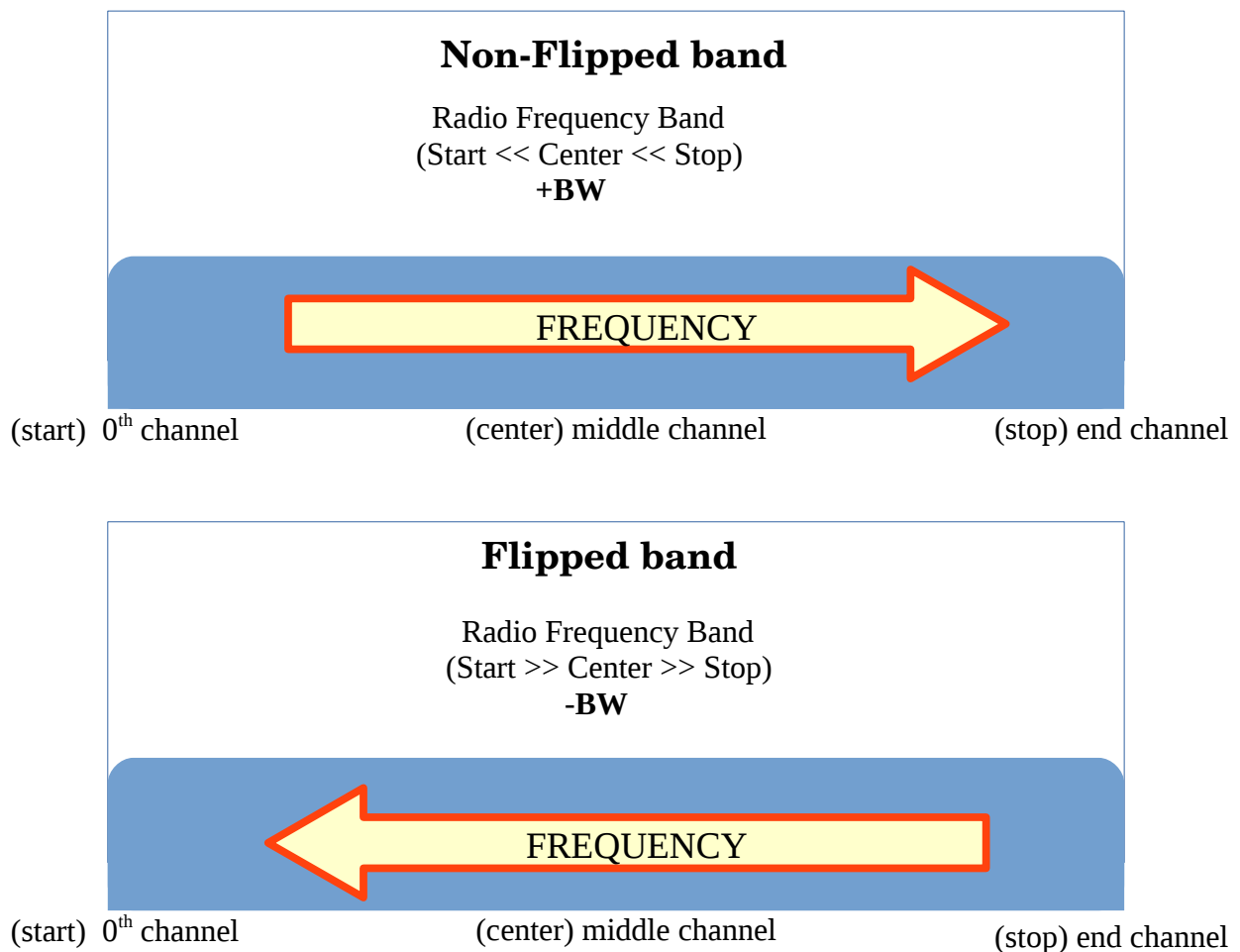
GTAC observing inputs

Telescope Setup:

RF band selection: select any one RF full band or sub band.

Correlator parameter selection:

Select the start frequency (MHz): enter the start (lower/higher) frequency. It is also called as 0th channel frequency. (Please refer the Default Setup table at Page# 3)



Band Width: +/- BW (MHz): select the band width option

(use +bw for non flipped band and -bw for flipped band)

Chan: Select the no of spectral channels (K=1024)

Stokes: 2 – two stokes (Indian polar), 4 – Four stokes (Full polar)

Integ (sec): Lta integration time in seconds. (use of 1.3 seconds is possible if channel number is < 4K due to high data rate)

Beam: Select the beam for pulsar observations.

GTAC observing inputs

Default telescope setup for continuum/imaging observations:

RF band	GWB (Chan=2K, Stokes=2, Integ=10.7 sec)				
	Start Freq (MHz)	Stop Freq (MHz)	Band Width (MHz)	GAB LO (MHz)	Band Flip
Band2 (Full) 130 - 260	300	100	200	300	YES
Band3 (Full) 250 - 500	500	300	200	500	YES
240 - 340	340	240	100	340	YES
300 - 400	410	310	100	320	YES
360 - 460	460	360	100	360	YES
420 - 520	520	420	100	420	YES
Band4 (Full) 550 - 900	550	750	200	550	NO
550 - 650	550	650	100	550	NO
635 - 735	635	735	100	635	NO
720 - 820	820	720	100	820	YES
800 - 900	900	800	100	900	YES
Band5 (Full) 1000 - 1450	1460	1060	400	1460	YES
1000 - 1120	1120	1020	100	1120	YES
1110 - 1230	1230	1130	100	1230	YES
1220 - 1340	1340	1240	100	1340	YES
1330 - 1450	1450	1350	100	1450	YES

GTAC observing inputs

Source co-ordinates(list):

Only 4 fields are allowed. Fields should be separated by white space or tab

source_name	RA	Dec	Epoch
e.g			
3C147	05h42m36.13s	+49d51'07.2"	2000.0

Important: Spaces/Tabs in the single field is strictly not allowed eg.

3C147 is correct, 3C 147 is not correct
05h42m36.13s is correct, 05h 42m 36.13s is not correct
+49d51'07.2" is correct, +49d51' 07.2" is not correct
2000.0 is correct, 200 0.0 is not correct.

1. Source name:

Avoid character “_” (underscore) in the source name.

2. RA:

Use hour, minute and second format, use characters h, m and s or semicolon to separate the hours, minutes and seconds.

Examples:

02h15m37.54s OR 02:15:37.54

3. Dec:

Use degree, arc-minute and arc-second format, use characters d, ' and “ or semicolon to separate the degrees, arc-minutes and arc-seconds.

Examples:

+21d40'37.20” OR +21:40:37.20

4. Epoch:

Use J2000.0 OR current epoch

Examples:

2000.0, 2018.3456 etc.

GTAC observing inputs

Command file:

Here one has to select the target and its observing time. To prepare the command file, select the task as per your requirement.

e.g.

1. Select the task “setup”, its target may be “-NA-” and the time required is around 25 minutes.
2. Select the task “flux cal”, enter your flux cal name and the observing time around 10 minutes.
3. Select the task “loop?”, and enter your target source and phase cal with desired times (ie target for 30 minutes and phase cal for 5 minutes). While selecting the loop you have choice of no of cycles to run the loop.
4. Select the task “phase cal”, enter your phase cal name and the observing time around 5 minutes.
6. Select the task “flux cal”, enter your flux cal name and the observing time around 10 minutes.

Note.

- 1. It is possible to add many commands/Task(s) in the command file by pressing the button “Insert Command”, also it is possible to delete the command file by selecting its no and pressing the “Delete Command” button.**
- 2. The time line prediction values are the rough estimate values and may not be the actual values while observing.**
- 3. There is always some dead time between the source change or between two scans. This dead time is added while predicting the time line.**

GTAC observing inputs

Special requirement or additional information (if any):

If you have any non default requirement/setup type, spectral line observations or pulsar observations write it in to this box.

GTAC observing inputs

Important note:

Please email downloaded file to gmrtoptions@ncra.tifr.res.in
For any queries, please write to gmrtoptions@ncra.tifr.res.in