

Observing Block Generator OB Generator

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Tartu Observatory



NOT Observing Block Generator

LOGIN

User:	<input type="text"/>
Password:	<input type="password"/>
	<input type="button" value="Login"/> New user

Welcome to the **NOT Observing Block Generator**.

This web interface allows you to completely define a set of observations using any of the instruments available at the NOT. The observation requirements are defined using a simple set of webforms. Each of the forms hold information on a particular aspect of the observations, for instance, target details, observational constraints & instrument setup. Together they make up a complete description of a set of observations at the NOT which can be translated into observing scripts and executed at the telescope.

The OB Generator is primarily meant to be used by observers requesting observations to be carried out in service mode, like for Fast-Track and Target-of-Opportunity programs. However, visiting observers are also very welcome to use this tool.

By definition, observations are divided in OB-Groups that are associated with a (fast-track or regular) observing proposal. A **Group** consists of all observations which need to be executed in a single night (e.g., an object and a standard star). Each Group consists of one or more **Observing Blocks (OBs)**. An OB per definition consists of a telescope pointing to a single object with observations using a single instrument. In its turn an OB consists of one or more **Observing Sequence(s)**, which define the details of the instrument set-up(s) to be used, and the (one or more) exposure(s) to be made.

The first step to proceed is to login to the system. If this is your first visit, you first need to create a new user. Once logged in, help pages are available across the system to aid you in all aspects of defining a set of observations. If you have technical questions or comments concerning the functioning of the NOT OB Generator, please contact obsupport@not.iac.es. If you have questions about how to define OBs and/or Observing Sequences, please contact service@not.iac.es.

An overview of the steps needed to define sets of observations is given below:

Login 1	-> Identify yourself to the system
Proposal A 1	-> Select & associate the Proposal for which to make OBs

Logging in

<https://www.not.iac.es/observing/forms/ob/login.php>

After logging in and some tricks



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sinopesky

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Logout

LIST OF PROPOSALS

Add Proposal to List

Proposal	P.I.	Title	Groups	Share Permissions	Proposal Actions
67-704	Andreas Korn	ChETEC-INFRA Summer school 2023	List	andreaskorn:share,tiina..	View Share

Help button!!!
Use it!!!

Observing Block generator - OBs

I) Observing Group (one night observations):

Contains OB(s)

II) Observing Block (single pointing/instrument)

Contains obs. sequence(s)

III) Observing sequence

(exposure with defined duration,
single or multiple with the same duration)

Group > block(s) > sequence(s)

Click *List Groups*



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A A A

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Group > block(s) > sequence(s)

Group(s)

[List Targets](#)[List Proposals](#)[Help](#)[Logout](#)

SUMMARY OF PROPOSAL: 67-704

Proposal	P.I.	Title	Email	
67-704	Andreas Korn	ChETEC-INFRA Summer school 2023	andreas.korn@physics.uu.se	View

OBSERVING TIME BREAKDOWN

Type	InPrep	Submitted	Active	Closed	Expired	Total
Monitor	0	1634	0	0	0	1634

LIST OF OBSERVING GROUPS

[Show Closed/Expired](#)

Group Name	Instrument(s)	Mode(s)	Type	Seeing	Weather	Moon	Obs. Time	Comments	Time Critical	Priority	Linked	Blocks	Status	Group Actions
raqr2023	ALFOSC	IMA	Monitor	1.3	Thin Clouds	Any	1634	No	20230725	1	No	List	Submitted	Copy

[Add New Group](#)[Import Group](#)[Link Groups](#)[Show All Blocks](#)

Group > block(s) > sequence(s)



Block(s)

[List Targets](#)[List Proposals](#)[List Groups](#)[Help](#)[Logout](#)

SUMMARY OF OBSERVING GROUP: raqr2023

Group Name	Instrument(s)	Mode(s)	Type	Seeing	Weather	Moon Phase/Dist	Obs. Time	Critical Dates	Comments	Status	Group Actions
raqr2023	ALFOSC	IMA	Monitor	1.3	Thin Clouds	Any/Any	1634	20230725		Submitted	

LIST OF OBSERVING BLOCKS

If the observing blocks should be executed in a given order, please specify so using the 'Comments' box.

#	Block Name	Instrument	Mode	Object	Type	Seeing (max)	Weather	Moon Phase/Dist	Airmass (max)	LST Range	Obs. Time	Pos. Angle	Finding Chart	Comments	Sequences	Acquisition Info	Block Actions
	ima	ALFOSC	IMA	RAqr	science	1.3	Thin Clouds	Any/Any	2.00	20.9 - 2.6	1634	Default	Yes		List		View



Group > block(s) > sequence(s)

Sequences

[List Targets](#)[List Proposals](#)[List Groups](#)[List Blocks](#)[Help](#)[Logout](#)

SUMMARY OF OBSERVING BLOCK: ima

	Block Name	Instrument	Mode	Object	Type	Seeing (max)	Weather	Moon Phase/Dist	Airmass (max)	LST Range	Obs. Time	Pos. Angle	Comments	Acquisition Info	
#	ima	ALFOSC	IMA	RAqr	science	1.3	Thin Clouds	Any/Any	2.00		1634	Default			View

LIST OF OBSERVING SEQUENCES

The observing sequences will be executed exactly in the order they appear in the list

		Detector					Instrument	Dither		Exposure				
#	Sequence Name	Readspeed	Amp	Bin	X,Y begin	X,Y size	Filter	Pattern	Offset X,Y / Final X,Y	Observing type	Exptime per dither point	Obstime total	Comments	Sequence Actions
1	o3_10s	Default	Default	1x1	1,1	2148,2102	#90: [OIII] 501_3	None	0.00,0.00 / 0.00,0.00	Object	1 x 10.0	38		View
2	o3_40s_1	Default	Default	1x1	1,1	2148,2102	#90: [OIII] 501_3	None	0.00,0.00 / 0.00,0.00	Object	1 x 40.0	68		View
3	o3_40s_5	Default	Default	1x1	1,1	2148,2102	#90: [OIII] 501_3	5-point (dice 5)	2.00,2.00 / 0.00,0.00	Object	1 x 40.0	381		View
4	o2_30s	Default	Default	1x1	1,1	2148,2102	#30: [OII] 373_5	None	0.00,0.00 / 0.00,0.00	Object	1 x 30.0	58		View
5	o2_120s_5	Default	Default	1x1	1,1	2148,2102	#30: [OII] 373_5	5-point (dice 5)	2.00,2.00 / 0.00,0.00	Object	1 x 120.0	781		View

Adding new group

[List Proposals](#)[List Groups](#)[Help](#)[Logout](#)

ADD OBSERVING GROUP

Observing Group

Group Type

☐ Monitoring ☐ Payback ☐ ToO ☐ SoftToO ☐ Service ☐ Visitor ☐ CAT Service

[Create Observing Group](#)

Group Types

- Monitoring** - to define OB groups for scheduled monitoring programs
- Payback** - to define OB groups to compensate for observing time lost, e.g. to ToO/Monitoring programs
- ToO** - trigger for ToO programs. **Per default, critical date for this group is set to today**
- SoftToO** - trigger for soft ToO programs (no override status). **Per default, critical date for this group is set to today**
- Service** - to define OB groups for regular programs that will be executed by NOT staff
- Visitor** - to create observing scripts for regular programs that will be executed by visiting astronomers
- CAT Service** - to define OB groups for spanish programs that will be executed in CAT Service nights

Adding new OB 1

- In the Observing Group(s) window > List Block > *Add New Block*

[List Targets](#)[List Proposals](#)[List Groups](#)[Help](#)[Logout](#)

SUMMARY OF OBSERVING GROUP: plapla

Group Name	Instrument(s)	Mode(s)	Type	Seeing	Weather	Moon Phase/Dist	Obs. Time	Critical Dates	Comments	Status	Group Actions
plapla	None	None	Monitor			/°				InPrep	Edit Submit

LIST OF OBSERVING BLOCKS

If the observing blocks should be executed in a given order, please specify so using the 'Comments' box.

Block Name	Instrument	Mode	Object	Type	Seeing (max)	Weather	Moon Phase/Dist	Airmass (max)	LST Range	Obs. Time	Pos. Angle	Finding Chart	Comments	Sequences	Acquisition Info	Block Actions
------------	------------	------	--------	------	--------------	---------	-----------------	---------------	-----------	-----------	------------	---------------	----------	-----------	------------------	---------------

[Add New Block](#)[Import Block](#)

ADD OBSERVING BLOCK

Instrument	<input type="text" value="FIES"/>
Mode	<input type="text" value="Spectroscopy"/>
Observing Block Name	<input type="text" value="plapla2"/>
Create Observing Block	

Adding new OB 2

[List Proposals](#)[List Groups](#)[List Blocks](#)[Help](#)[Logout](#)

OBSERVING BLOCK DEFINITION FORM

To be able to submit this observing block, it is necessary to create the observing sequences first.
Fill in the form, click 'Save Draft' and proceed to the Sequence level.

Instrument	
Instrument	<input type="text" value="FIES"/>
Mode	<input type="text" value="SPEC"/>
OB Identifier	
Observing Group	<input type="text" value="plapla"/>
Observing Block	<input type="text" value="plapla2"/>
Generated Script Name	plapla_plapla2
Image Type	<input checked="" type="radio"/> Science <input type="radio"/> Standard <input type="radio"/> Calibration
Comments	<input type="text"/>
Target Details	
Finding Charts	Edit (Complete before entering target info) Import target from catalog
Target name	<input type="text"/>
RA	<input type="text"/> Proper motion <input type="text" value="0.00"/> arcsec/year
DEC	<input type="text"/> Proper motion <input type="text" value="0.00"/> arcsec/year
Equinox	<input type="text" value="2000.00"/>

Adding new sequence 1

- In the Observing Block(s) window > List Sequences > *Add New Sequence*

List Proposals	List Groups	List Blocks	List Sequences	Help	Logout
OBSERVING SEQUENCE DEFINITION FORM					
Instrument					
Instrument	<input type="text" value="FIES"/>				
Mode	<input type="text" value="SPEC"/>				
Sequence Identifier					
Observing Sequence	<input type="text"/>				
Comments	<input type="text"/>				
Detector Setup					
Configuration	Readspeed: <input type="text" value="Default"/>	Amplifier: <input type="text" value="Default"/>	Bin: <input type="text" value="1x1"/>		
Instrument Setup					
Fiber	<input type="text" value="#1 Low-Res"/>				
Integration Details					
Type	<input type="text" value="Object"/>				
Science Exposure	<input type="text"/> seconds				
Number of Exposures	<input type="text" value="1"/>				
Verify Sequence Save Draft Submit Sequence					

Adding new sequence 2

- **Use Help!**

This form defines the requirements for the observing sequence.

On this level, you need to specify the detector and instrument setup and the actual integration details.

The form is divided into several sections. The information required in each section is as follows:

- **Instrument**

- Both Instrument and observing mode are fixed on this level. You can not change these settings.

- **Sequence Identifier**

- Observing Sequence: If needed, rename the observing sequence.
- Comments: Any notes you find useful for this observing sequence.

- **Telescope Setup**

- For ALFOSC Imaging and Imaging polarimetry, it is possible to explicitly defocus the telescope away from optimal focus in order to avoid saturation of very bright targets. Typical telescope defocus values range from 200 to 2000 units. To leave the telescope focussed, this value should be left at the default 0 units.

- **Detector Setup**

- **Instrument Setup**

- **Integration Details**

Very important!!!!

Type	<input type="text" value="Object"/>	
Exposure	<input type="text"/>	seconds
Number of Exposures	<input type="text" value="1"/>	
<div><button>Verify Sequence</button><button>Save Draft</button><button>Submit Sequence</button></div>		

- Buttons *Verify* and *Submit* (Block and Sequences level)
- *Verify*: any time
- ***Submit only when you are sure it is ready!***
- First submit sequence(s), then blocks.



Lets have some fun!