Observing Block Generator OB Generator

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NOT Observing Block Generator

LOGIN

User:	
Password:	
	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 <u>obsupport@not.iac.es</u>. If you have questions about how to define OBs and/or Observing Sequences, please contact <u>service@not.iac.es</u>.

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

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

Logging in

https://www.not.ia c.es/observing/for ms/ob/login.php

You will create one account per group together with us!

1 corresponding email 1 user+password

After logging in and some tricks





Outreach

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 (several exposures)

Group > block(s) > sequence(s)

Click List Groups



Group > block(s) > sequence(s)

Group(s)

List Targets List Proposals

SUMMARY OF PROPOSAL: 67-704

Help

Logout

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

OBSERVING TIME BREAKDOWN

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

LIST OF OBSERVING GROUPS



Block(s)



SUMMARY OF OBSERVING GROUP: raqr2023

Group Name	Instrument(s)	Mode(s)	Туре	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	Туре	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)

<u>Sequences</u>

List Targets List Proposals List Groups

List Blocks

SUMMARY OF OBSERVING BLOCK: ima

	Block Name	Instrument	Mode	Object	Туре	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

			De	tecto	r		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

Help Logout

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
ΤοΟ	- 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 Gro	ups							Help	Logout
				<u>SUM</u>	MARY OF OBS	ERVING GROUP	plapla				
Group Name	Instrument(s)	Mode(s)	Туре	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	Туре	Seeing (max)	Weather	Moon Phase/Dist	Airmass (max)	LST Range	Obs. Time	Pos. Angle	Finding Chart	Comments	Sequences	Acquisition Info	Block Actions
Add Nev	w Block	Impor	t Block											BLOCK		
1	1												ADD OBSERVING	BLOCK		
											In	strument F	TES ~]		
												Mode S	Spectroscopy 🗸			
										Obs	erving Blo	ock Name [olapla2			
													Create Observing	Block		

Adding new OB 2

List Proposals	List Groups	List Blocks
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OBSERVING BLOCK DEFINITION FORM

Fo 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	FIES
Mode	SPEC
OB Identifier	
Observing Group	plapla
Observing Block	plapla2
Generated Script Name	plapla_plapla2
Image Type	Science O Standard O Calibration
Comments	
Target Details	
Finding Charts	Edit (Complete before entering target info)
	Import target from catalog
Target name	
RA	Proper motion 0.00 arcsec/year
DEC	Proper motion 0.00 arcsec/year
Equinox	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	ogout
	OBSERVING SEQUENCE DEFINITION FORM		
Instrument			
Instrument	FIES		
Mode	SPEC		
Sequence Identifier			
Observing Sequence			
Comments			
Detector Setup			
Configuration	Readspeed: Default V Amplifier: Default V Bin: 1x1 V		
Instrument Setup			
Fiber	#1 Low-Res		
Integration Details			
Туре	Object ~		
Science Exposure	seconds		
Number of Exposures	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!!!!

Туре	Object
ience Exposure	seconds
er of Exposures	1
	Verify Sequence Save Draft Submit Sequence

- 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!