

# Fase II do SOAR



## Objetivos da Fase II

- Indica a ciência que o PI pretende fazer, a configuração instrumental e os blocos de observações que serão realizados.
- Ferramenta para o planejamento das observações.
- No modo remoto, a Fase II será ainda necessária.
- Astrônomo de suporte e astrônomo que irá fazer as observações estão em lugares diferentes.
- Permite ao observador prever detalhes que não conhecia sobre o instrumento.
- O prazo para o envio da Fase II é uma semana antes do início da observação.



# Documentação e suporte

www.lna.br/soar/soar.html

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Comentários e Sugestões:  
[webmast@lna.br](mailto:webmast@lna.br)



**LNA** LABORATÓRIO  
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User: Guest

System

Phase II Proposal

## Informations

**Brazilian SOAR Office****SOAR Phase II Form (Version 2.2)****Semestre 2013A****Deadline for submission: 25 January, 2013**

Welcome to the Phase II form for the SOAR Telescope, Semester 2013A (*February/2013 - July/2013*). This form must be filled by all Principal Investigators of programs that awarded Brazilian observing time in both queue mode and remote mode.

The main purpose here is to gather all the necessary details for an adequate instrument setup and observing strategy. Before start filling the form, please read (at least), the quick Phase II instructions below. Please keep in mind that errors or problems in the observing strategy can lead to unusable data and/or to data that cannot be use for the proposed science. If you want to relax the observing constraints or make changes to the list of targets, please contact [Alberto Ardila](#).

Save regularly the information you type in. After saving it, you can leave the Phase II editor and resume it later as many times as necessary.

The link "[System](#)" (left bar) allows the user to login to his/her account. The username and password used for the Phase I are required. After login, the link "[Phase II proposal](#)" is activated. Click on it to access the Phase II form for editing. If more than one project was approved for 2013A, choose in the list shown the one you want to edit.

The Phase II form has four sections. In the first one, called "[Phase I proposal](#)", the information already provided



User: Guest

**Informations**

System

Phase II Proposal

Login

Logout

Reset Passwd

New User

Modification User

User: arodriguez

System

Phase II Proposal

Residentes

Gerenciamento

four tables: (1) instrument summary. The first two modified if necessary the and sequences of observation consists of at least one given block is executed **n 2.2)** clicking at the question "setup", the user is prompted to fill the project. This plan will have a section, called "Submit" considered necessary for **ry, 2013**

Welcome to the Phase II form for the SOAR Telescope, Semester 2013A (*February/2013 - July/2013*). This form must be filled by all Principal Investigators of programs that awarded Brazilian observing time in both queue mode and remote mode.

The main purpose here is to gather all the necessary details for an adequate instrument setup and observing strategy. Before start filling the form, please read (at least), the quick Phase II instructions below. Please keep in mind that errors or problems in the observing strategy can lead to unusable data and/or to data that cannot be use for the proposed science. If you want to relax the observing constraints or make changes to the list of targets, please contact [Alberto Ardila](#).

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User: arodriguez

System

Phase II Proposal

Residentes

Gerenciamento

Phase II Application Form for the SOAR Telescope

Phase I proposal

Instrument setup and Object list

Observational Strategy Setup

Submit

Observing Mode

Service mode

Proposal Title

Teste para fase ii - 26/11/2012

Principal Investigator

Alberto Rodríguez Ardila

PI Affiliation

Laboratório Nacional de Astrofísica

PI E-mail

aardila@lna.br

Proposal ID

SO2013A-000

Band

0

Abstract

Abstract

Weather Constraints

Image Quality:

Seeing < 0.8 "

Moon Phase:

Gray

Cloud Cover:

Cloudy (<90

Air Mass (<=):

1.5

Time Requested

1

hours

**Time Allocated**

0

hours

Technical Justification

Phase I proposal

Instrument setup and Object list

Observational Strategy Setup

Submit

Instrument setup ?

| Instrument - Mode                | Dither | Binning | Offset | Grating | Readout |
|----------------------------------|--------|---------|--------|---------|---------|
| Goodman (Imaging)                | No     | 1x1 ▼   | none ▼ | - ▼     | 100KH ▼ |
| Goodman Spectroscopy (long slit) | No     | 1x1 ▼   | none ▼ | - ▼     | 100KH ▼ |
|                                  |        |         |        |         |         |

✔ Save

Object list ?

📄 Upload

| Object  | RA(2000) (hh:mm:ss) | DEC(2000) (deg:mm:ss) |
|---------|---------------------|-----------------------|
| objeto1 | 00:00:00            | -30:00:00             |
| objeto2 | 01:00:00            | -31:00:00             |
| NGC0253 | 00:47:33.10         | -25:17:18             |
| NGC0428 | 01:12:55.70         | +00:58:54             |
| NGC0474 | 01:20:06.70         | +03:24:55             |
| NGC0718 | 01:53:13.30         | +04:11:45             |
|         |                     |                       |

🔍

📄

📄

Observation blocks editor ?

Observation blocks editor ?

| Object | Filter | Slit | Range(nm) | P.A. (°) | Exp. Time | No. Exp. |
|--------|--------|------|-----------|----------|-----------|----------|
|        |        |      |           |          |           |          |
|        |        |      |           |          |           |          |
|        |        |      |           |          |           |          |
|        |        |      |           |          |           |          |
|        |        |      |           |          |           |          |
|        |        |      |           |          |           |          |
|        |        |      |           |          |           |          |



Block Setup

Calibrations

Add comments

 Save Block

 Cancel

| Block # | Object | Filter | Slit | Range(nm) | P.A. (°) | Exp. Time | No. Exp. |
|---------|--------|--------|------|-----------|----------|-----------|----------|
| 002     |        |        |      |           |          |           |          |
| 003     |        |        |      |           |          |           |          |
| 004     |        |        |      |           |          |           |          |
|         |        |        |      |           |          |           |          |
|         |        |        |      |           |          |           |          |
|         |        |        |      |           |          |           |          |
|         |        |        |      |           |          |           |          |
|         |        |        |      |           |          |           |          |

 Edit Block

 Del Block

Total Time for this block:  (s)

Total Time Request:  (s)

Time Allocated:  (s)



## Object list ?

 Upload

| Object  | RA(2000) (hh:mm:ss) | DEC(2000) (deg:mm:ss) |
|---------|---------------------|-----------------------|
| NGC1326 | 03:23:56.40         | -36:27:53             |
| NGC1808 | 05:07:42.30         | -37:30:47             |
| NGC7130 | 21:48:19.50         | -34:57:05             |
| NGC7135 | 21:49:46.00         | -34:52:35             |
| NGC7285 | 22:28:28.00         | -24:50:27             |
| IC1459  | 22:57:10.60         | -36:27:44             |



## Observation blocks editor ?

| Object  | Filter | Slit | Range(nm) | P.A. (°) | Exp. Time | No. Exp. |
|---------|--------|------|-----------|----------|-----------|----------|
| NGC1808 | 0      | 0.8" | 450-725   | 90       | 1200      | 3        |
| NGC1808 | -      | 0.8" | 350-485   | 90       | 1200      | 3        |
|         |        |      |           |          |           |          |
|         |        |      |           |          |           |          |
|         |        |      |           |          |           |          |
|         |        |      |           |          |           |          |
|         |        |      |           |          |           |          |

Block Setup

Calibrations

Add comments



Save Block



Cancel







Phase I proposal

Instrument setup and Object list

Observational Strategy Setup

Submit

## Description of Observing Strategy

*In the box below describe the observing strategy of your project with as much detailed as possible. Include in this description the number of calibration frames such as bias, flatfield and darks.*

O objeto do bloco 3 deve ser observado durante o twilight. Os demais objetos devem ser observados após a passagem pelo meridiano.

Phase I proposal

Instrument setup and Object list

Observational Strategy Setup

Submit

The final steps are:

1. CREATE A PDF FILE AND CHECK THE RESULT:

obs.: when `Create PDF` is clicked, depending on the users browser, the PDF will be opened on a new window or a download option will be given. Please check carefully if all the information you provided is correct.

Create PDF

2. SAVE THE PDF FILE IN YOUR COMPUTER.

When you are satisfied with the format of your Phase II, save it in your hard disk. Keep the name of the file as "PhaseII\_nnn.pdf".

Attach the PDF file through the button below:

 Upload PhaseII

3. ATTACHEMENTS.

Create a .gz or a .zip file with figures and tables associated to the phase II, with maximum size = 8MB.

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### 3. ATTACHEMENTS.

Create a .gz or a .zip file with figures and tables associated to the phase II,  
with maximum size = 8MB.

Attach this file through the button below:

Upload attachments:



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### 4. SUBMISSION.

Submit the phase II through the button below. A copy will be sent to you.

A button with a green plus icon and the text 'SUBMIT'.

## Observations blocks summary.

|         |     |
|---------|-----|
| Block # | 001 |
|---------|-----|

| Object           | R.A.(h:m:s)  | Dec.(deg)    | Target Type | mag        | Filter         | P.A. | Exp. Time | No. of Exp. |
|------------------|--------------|--------------|-------------|------------|----------------|------|-----------|-------------|
| LTT 7379         | 18:36:25.941 | -44:18:36.93 | Standard    | 10.22 ( V) | V              | 0    | 3         | 1           |
| LTT 7379         | 18:36:25.941 | -44:18:36.93 | Standard    | 10.22 ( V) | R              | 0    | 3         | 1           |
| LTT 7379         | 18:36:25.941 | -44:18:36.93 | Standard    | 10.22 ( V) | 5019/50 (CTIO) | 0    | 30        | 1           |
| LTT 7379         | 18:36:25.941 | -44:18:36.93 | Standard    | 10.22 ( V) | 6563/50 (CTIO) | 0    | 30        | 1           |
| NGC 6744 Field 1 | 19:09:28.882 | -63:54:54.26 | Science     | 8.25 (V)   | V              | 88   | 180       | 1           |
| NGC 6744 Field 1 | 19:09:28.882 | -63:54:54.26 | Science     | 8.25 (V)   | R              | 88   | 180       | 1           |
| NGC 6744 Field 1 | 19:09:28.882 | -63:54:54.26 | Science     | 8.25 (V)   | 5019/50 (CTIO) | 88   | 2400      | 3           |
| NGC 6744 Field 1 | 19:09:28.882 | -63:54:54.26 | Science     | 8.25 (V)   | 6563/50 (CTIO) | 88   | 1800      | 1           |
| G 156-57         | 22:53:16     | -14:15:38    | Standard    | 10.18 ( V) | V              | 0    | 3         | 1           |
| G 156-57         | 22:53:16     | -14:15:38    | Standard    | 10.18 ( V) | R              | 0    | 3         | 1           |
| G 156-57         | 22:53:16     | -14:15:38    | Standard    | 10.18 ( V) | 5019/50 (CTIO) | 0    | 30        | 1           |
| G 156-57         | 22:53:16     | -14:15:38    | Standard    | 10.18 ( V) | 6563/50 (CTIO) | 0    | 30        | 1           |

Block Time Requested:

9492s (2.64h)

|         |     |
|---------|-----|
| Block # | 002 |
|---------|-----|

| Object   | R.A.(h:m:s)  | Dec.(deg)    | Target Type | mag        | Filter         | P.A. | Exp. Time | No. of Exp. |
|----------|--------------|--------------|-------------|------------|----------------|------|-----------|-------------|
| LTT 7379 | 18:36:25.941 | -44:18:36.93 | Standard    | 10.22 ( V) | V              | 0    | 3         | 1           |
| LTT 7379 | 18:36:25.941 | -44:18:36.93 | Standard    | 10.22 ( V) | R              | 0    | 3         | 1           |
| LTT 7379 | 18:36:25.941 | -44:18:36.93 | Standard    | 10.22 ( V) | 5019/50 (CTIO) | 0    | 30        | 1           |



## Observations blocks summary.

| Block #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 001          |             |          |       |              |      |           |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|-------------|----------|-------|--------------|------|-----------|-------------|
| Object                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | R.A.(h:m:s) | Dec.(deg)    | Target Type | mag      | Slit  | Central Wav. | P.A. | Exp. Time | No. of Exp. |
| NGC4472-Center                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12:29:46.00 | +08:00:02.00 | Science     | 8.38 (V) | 1.03" | 360-915/300l | 137  | 600       | 3           |
| NGC4472-NE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12:29:46.00 | +08:00:02.00 | Science     | 8.38 (V) | 1.03" | 360-915/300l | 137  | 600       | 3           |
| NGC4472-SE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12:29:46.00 | +08:00:02.00 | Science     | 8.38 (V) | 1.03" | 360-915/300l | 137  | 600       | 3           |
| <p>"NGC4472-Center" comments: E2/Liner, Central slit position</p> <p>"NGC4472-NE" comments: NE slit position, 5 arcsec from the Nucleus.</p> <p>"NGC4472-SE" comments: SE slit position, 5 arcsec from the Nucleus.</p>                                                                                                                                                                                                                                                                                    |             |              |             |          |       |              |      |           |             |
| Additional block informations                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |              |             |          |       |              |      |           |             |
| <ul style="list-style-type: none"> <li>- We also provide chart images illustrating the slit positions (Center, NE, SE). The offset of each position is 5 arcsec.</li> <li>- We require one HgAr arc lamps observation before and after each set of exposures (3 x 600s) for each slit position (3 positions).</li> <li>- We ask to do the three slit positions at the same "pointing", by doing this the overhead time is minimized.</li> <li>- Spectrophotometric standards are also required.</li> </ul> |             |              |             |          |       |              |      |           |             |

## Calibration lamps summary.

|                                    |    |            |   |         |          |         |   |               |   |            |   |         |   |
|------------------------------------|----|------------|---|---------|----------|---------|---|---------------|---|------------|---|---------|---|
| Time spent with calibration lamps: |    |            |   |         | 996 secs |         |   |               |   |            |   |         |   |
| Hg-Ar lamp                         | 12 | Cu-Ar lamp | 0 | Fe lamp | 0        | Ar lamp | 0 | Quantz flat   | 0 | Ne-Ar lamp | 0 | Cu lamp | 0 |
| Block Time Requested:              |    |            |   |         |          |         |   | 6900s (1.92h) |   |            |   |         |   |

- Problemas com o formulário [pguida@lna.br](mailto:pguida@lna.br)

- Dúvidas com a configuração instrumental

- Planejamento das observações

- Instrumentos

- Sugestões



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