

Telescope proposal writing



Προκαταρκτικά

- Ένα καλά ορισμένο αστροφυσικό πρόβλημα
- Απαραίτητα στοιχεία:
 - τι είδους αντικείμενα θέλω να μελετήσω
 - ποιες είναι οι συντεταγμένες τους
 - ποια η λαμπρότητά τους
 - τι είδους μετρήσεις χρειάζομαι:
 - Περιοχή ηλεκτρομαγνητικού φάσματος
 - Φωτομετρία (με ποια φίλτρα)
 - Ταχεία φωτομετρία
 - Φασματοσκοπία (πολλαπλών αντικειμένων;)
 - Πολωσιμετρία
 - Αστρομετρία...
 -



Σε ποιο τηλεσκόπιο είναι καλύτερα να γίνουν οι παρατηρήσεις, με ποιο όργανο και πότε

Αφού έχετε επιλέξει το σωστό τηλεσκόπιο/όργανο
Ετοιμάζοντας την πρόταση

- Προσεκτική μελέτη των κανονισμών και οδηγιών
- Σιγουρευτείτε ότι έχετε καταλάβει τι απαιτείται από σας
- Βεβαιωθείτε ότι όχι μόνο κατανοείτε τις ιδιαιτερότητες του συνδυασμού οργάνου/τηλεσκοπίου που προτείνετε να χρησιμοποιήσετε, αλλά και ότι είστε ενημερωμένοι με τις τελευταίες εξελίξεις (ελέγξτε τις σχετικές ιστοσελίδες)
- Ίσως χρειαστεί να επικοινωνήσετε με το τεχνικό προσωπικό του τηλεσκοπίου για λεπτομέρειες ή να μελετήσετε πρόσφατες δημοσιεύσεις

Τι πρέπει να σκεφτείτε πριν ξεκινήσετε να γράφετε την πρόταση

- Οι παρατηρήσεις που έχετε στο μυαλό σας θα απαντήσουν πραγματικά σε κάποιο σημαντικό επιστημονικό ερώτημα;
- Το έργο σας θα συμβάλει στην παγκόσμια αστρονομική μας γνώση;
- Έχουν γίνει οι παρατηρήσεις στο παρελθόν; Φυσικά, εάν έχει γίνει στο παρελθόν, αλλά προτείνετε να το κάνετε ΚΑΛΥΤΕΡΑ, τότε στην πρότασή σας θα χρειαστεί να αναφέρετε λεπτομερώς κατά πόσο, και με ποιον τρόπο, θα βελτιώσετε τα πράγματα και τι θα κερδίσετε η βελτίωση.
- Χρειάζεται να χρησιμοποιήσετε τον συγκεκριμένο συνδυασμό οργάνου/τηλεσκοπίου για να εκτελέσετε αυτό το έργο; Είναι η καλύτερη επιλογή για να πετύχετε τους επιστημονικούς σας στόχους; Εάν μπορεί να γίνει με ένα μικρότερο τηλεσκόπιο, αυτό είναι συχνά ένα λόγος απόρριψης της πρότασης.

Η επιστημονική αιτιολόγηση

- Αυτή η ενότητα της πρότασής σας είναι πολύ σημαντική.
- Θυμηθείτε ότι 4-10 άτομα θα διαβάσουν την πρότασή σας και θα τη βαθμολογήσουν.
- Σε κάθε πρόταση ανατίθεται συνήθως ένας κύριος και ένας δευτερεύων κριτής, αλλά τα υπόλοιπα μέλη της επιτροπής βαθμολογούν επίσης τις προτάσεις (4-8). Από αυτούς τους ανθρώπους, μόνο ένας ή δύο μπορεί να είναι ειδικοί στο συγκεκριμένο θέμα.
- Επομένως, πρέπει να έχετε επαρκείς λεπτομέρειες στην πρότασή σας για να πείσετε όλους ότι η υπόθεσή σας είναι ισχυρή και ότι οι προτεινόμενες παρατηρήσεις ταιριάζουν απόλυτα στο τηλεσκόπιο/όργανο που προτείνετε.
- Πρέπει επίσης να συμπεριλάβετε μια συνοπτική εισαγωγή στο θέμα, ώστε οι μη ειδικοί να μπορούν να κατανοήσουν και να αξιολογήσουν τα επιχειρήματά σας.
- Η πρότασή σας πρέπει να είναι συνεκτική, απλή, συνοπτική και ταυτόχρονα περιεκτική και όσο πιο σαφής γίνεται.

- Συμπεριλάβετε τις πιο σημαντικές και ενημερωμένες αναφορές που δείχνουν ότι είστε στην κορυφή του πεδίου σας (όχι παλιές αναφορές ή εργασίες σε προετοιμασία στις οποίες οι χρήστες δεν έχουν πρόσβαση)
- Εάν υποβάλετε εκ νέου, βεβαιωθείτε ότι έχετε απαντήσει πλήρως στις προηγούμενες κριτικές της επιτροπής, χωρίς να έχει επηρεαστεί αρνητικά το μέρος της πρότασης που ήταν ικανοποιητικό την πρώτη φορά.
- Εάν το πείραμά σας αναμένεται να οδηγήσει σε περαιτέρω έρευνα, δώστε μια σύντομη περιγραφή των αναμενόμενων πιθανών εξελίξεων.
- Εάν αυτές οι παρατηρήσεις αποτελούν μέρος ενός μεγαλύτερου ερευνητικού προγράμματος, προσδιορίστε ποιες άλλες παρατηρήσεις γίνονται εκτός από τις προτεινόμενες. Αναφέρετε επίσης ποια είναι η κατάσταση αυτών των παρατηρήσεων, δηλ. αν έχουν ήδη γίνει, αν έχει δοθεί χρόνος αλλού, αν περιμένετε την ετυμηγορία άλλων αξιολογήσεων προτάσεων ή αν θα υποβάλετε επιπλέον προτάσεις αλλού; Εάν ισχύουν τα δύο τελευταία, θα είναι χρήσιμες οι παρατηρήσεις σας σχετικά με το πόσο χρήσιμες θα είναι οι προτεινόμενες παρατηρήσεις από μόνες τους, σε περίπτωση που οι άλλες εκκρεμείς/μελλοντικές αξιολογήσεις προτάσεων αποδειχθούν αρνητικές;
- Είναι επίσης σημαντικό να περιγράψετε με ποια εργαλεία/μέθοδο θα κάνετε την ανάλυση και ερμηνεία των δεδομένων σας.


Τεχνική αιτιολόγηση

- Αυτό το μέρος θα πρέπει και πάλι να είναι σαφές και συνοπτικό.
- Οι βασικές τεχνικές λεπτομέρειες των προτεινόμενων παρατηρήσεών σας (τηλεσκόπιο, όργανο, περιοχή μηκών κύματος, χρόνος έκθεσης κ.λπ.) και η λίστα στόχων συνήθως καταχωρούνται στο εξώφυλλο.
- Αυτή η ενότητα επιδιώκει να επεξεργασθεί και να αιτιολογήσει αυτές τις επιλογές. Ειδικά, βεβαιωθείτε ότι έχετε ΠΛΗΡΗΣ συμφωνία μεταξύ του εξωφύλλου και του τμήματος τεχνικής αιτιολόγησης.
- Βεβαιωθείτε ότι η επιλογή στόχου καθώς και το S/N που ζητήθηκε είναι επαρκώς αιτιολογημένα. Είναι συχνά χρήσιμο να παρέχετε ένα προσομοιωμένο φάσμα για παράδειγμα με το προτεινόμενο S/N και να δείξετε μια σύγκριση με ένα φάσμα μοντέλου που υποδεικνύει το αναμενόμενο αποτέλεσμα με βάση την υπόθεσή σας...
- Είναι πάντα καλή ιδέα να προσδιορίζετε πώς σκοπεύετε να αντιμετωπίσετε τη περίπτωση που πάρετε λιγότερα δεδομένα.
- Επίσης, εάν απαιτείται ανάπτυξη κώδικα για την ανάλυση των δεδομένων, θα πρέπει να τονιστεί η ύπαρξη τεχνογνωσίας.
- Η αναφορά της αρχειοθέτησης δεδομένων και της δημόσιας διαθεσιμότητας μπορεί επίσης να είναι σημαντική.
- Υπολογίστε χρόνους έκθεσης χρησιμοποιώντας τον Exposure Time Calculator του συγκεκριμένου τηλεσκοπίου/οργάνου
- Μην ξεχάσετε να προσθέσετε γενικά overheads (απόκτηση στόχου, χρόνος ανάγνωσης, κλείδωμα αστεριού οδηγού, εκθέσεις βαθμονόμησης).
- Εάν οι παρατηρήσεις σας είναι χρονικά κρίσιμες δώστε ακριβείς ημερομηνίες/ώρες.
- Μερικές φορές χρειάζονται προσομοιώσεις για να οργανώσετε σωστά το πείραμά σας.

Meeting Information x Webmail Ε.Κ.Π.Α. x lecture6.ppt x ESO - Policies and P x ESO User Portal x ELT ETC x The ESO Sky Calend x +

eso.org/sci/observing/policies.html

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Science Users Information > Observing with ESO Telescopes > Policies and Procedures 08 Jun 2022

Science Users Information	Policies and Procedures
Observing Facilities	
Future Facilities and Development	
Observing with ESO Telescopes	
Policies and Procedures	<p>The policies and procedures that are applied for allocation of observing time on the telescopes of the La Silla Paranal Observatory are defined in the VLT/VLTI Science Operations Policy document and GTO allocation. This document is complemented by specific information for the practical implementation of the policy for allocation of Director Discretionary Time and for Target of Opportunity observations, as well as by the lists of Guaranteed Time Observations that are protected against duplication.</p> <p>Specific rules apply for Public Surveys to which more than 75% of the ESO time on VST (optical) and VISTA (NIR) will be devoted.</p> <p>Paranal and La Silla site specific operational procedures and policies can be found in the Paranal Science Operations and La Silla Science Operations web pages.</p>
Science Operations Policy	
Director's Discretionary Time	
Target of Opportunity	
Guaranteed Time Observations	
Public Surveys	
Publications with ESO Data	
Telescope Time Allocation	GTO Programmes
Phase 1 Proposals	Telescope Schedule
Phase 2 Preparation	Large Programmes
Phase 3	ToO Programmes
Public Surveys	DDT Programmes
Observing Tools and Services	ESO/GTC Programmes
Visiting Astronomers	Targets of Public Surveys
Science Software	All approved Programmes
Data Handling and Products	RMM protected runs
Science Archive Facility	Monitoring Programmes
Science Activities	Calibration Programmes
Science Publications	
Science and Technical Meetings	
IT Services	
Library, Documentation & Information Services	
Vacancies	



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- Telescope Time Allocation
- GTO Programmes**
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- DDT Programmes
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- Science Publications
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- IT Services

Guaranteed Time Observations for Period 110

Please find below the protected target lists of the GTO teams for P110. Please note that some lists refer to GTO-Large targets starting in previous periods.

- ARTEMIS**
 - List of protected observations for the ARTEMIS consortium (ongoing GTO-Large)
- CRIRES+**
 - List of protected observations for the CRIRES consortium (normal GTO)
- ESPRESSO**
 - List of protected observations for the ESPRESSO consortium (ongoing GTO-Large)
- GRAVITY**
 - List of protected observations for the GRAVITY consortium (normal GTO)
 - List of protected observations for the VISA-MPG consortium (normal GTO)
 - List of protected observations for the NAOMI-IPAG consortium (normal GTO)
- HARPS**
 - List of protected observations for the LFC consortium (normal GTO) revised march 24, 2022
- MATISSE**
 - List of protected observations for the MATISSE consortium (normal GTO) - updated Mar 1, 2022
 - List of protected observations for the NAOMI-IPAG consortium (normal GTO)
- MUSE**
 - List of protected observations for the MUSE consortium (normal GTO)
- PIONIER**
 - List of protected observations for the NAOMI-IPAG consortium (normal GTO)
- ULTRACAM**
 - List of protected observations for the ULTRACAM consortium (normal GTO)

https://www.eso.org/sci/observing/teles-alloc/gto/110/ESPRESSO/P110_ESPRESSO-consortium.csv

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- Telescope Time Allocation

Phase 1 Proposals	Call for Proposals
Phase 2 Preparation	The p1 Tool
Phase 3	Dual-Anonymous Guidelines
Public Surveys	DPR Rules and Guidelines
Observing Tools and Services	OPC and Panels
- Visiting Astronomers
- Science Software
- Data Handling and Products
- Science Archive Facility
- Science Activities
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Policies and Procedures

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eso.org/sci/observing/phase1/p110/proposalsopen.html

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Science Users Information > Observing with ESO Telescopes > Phase 1 Proposals > p110 > Applying for Observing Time 08 Jun 2022

Applying for Observing Time

Telescope time with ESO telescopes at the La Silla Paranal Observatory is allocated twice a year in periods of six months. Allocation periods run from 1 October through 31 March, and from 1 April through 30 September. Applications for observing time must be submitted using the [web-based p1 interface](#) accessible at [www.eso.org/p1](#).

The **Call for Proposals** describes the conditions under which observing time is offered with ESO telescopes at the La Silla, Paranal, and Chajnantor (APEX) sites of the Observatory. The document is available in electronic form via this Web page.

The deadline for Period 110 (1 October 2022 – 31 March 2023) is:

25 March, 2022

(12:00 noon, Central European Time)

Applications for observing time with **ESO Telescopes** have to be prepared using the [p1 web system](#).
It is the PI's responsibility to resolve any submission problems well before the deadline. Please note that ESO cannot provide support beyond 11:00 CET on the day of the deadline.


Please note that Distributed Peer Review is introduced at ESO for the first time in Period 110.
For more details, please see: <https://www.eso.org/sci/observing/phase1/distributed-peer-review.html>

Mandatory update of the ESO User Portal profiles for science users
Please see the [announcement](#) on the request to update user profiles on the ESO User Portal. **Users failing to do so will not be able to submit a proposal as PI and/or as Col.**

Call for Proposals for Period 110

Applications may be submitted for the usage of the telescopes, instruments and instrument modes specified in the Call for Proposals for Period 110.

- **Period 110 Call for Proposals**
- **Useful links for Period 110**
Links to technical information about ESO facilities; foreseen changes in the performance of the offered instruments and useful information for the preparation of ESO proposals for the current call for proposals.
- **Late Breaking News**
Please check this page regularly. It will contain information about the Call for Proposals that becomes available after the release.



<https://www.eso.org/public/austria/?lang>

P110_ARTEMIS-co...csv lecture6.pdf Day1_05_ESO_LPO...pdf Day1_05_ESO_LPO...pdf proposals.pdf Προβολή όλων x

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The Phase1 web-based proposal submission system (p1)

For information on the current status of operations see:

<https://www.eso.org/sci/facilities/lpo/news.html>

Proposals for observing time on all facilities of the La Silla Paranal Observatory (VLT/I, VISTA, VST, NTT, 3.6m, APEX) must be submitted using the p1 web system:

www.eso.org/p1

This is accessible via your User Portal credentials.

Please be reminded that:

- The Principal Investigator and all Co-Investigators must have an ESO User Portal Account. You can register at www.eso.org/UserPortal;
- You can access (edit/clone) old proposals from the same p1 interface;
- Proposals prepared with the former ESOFORM system cannot be submitted in the new system unchanged;
- The system has short "mini-helps" (light blue boxes) as well as a help button at the top of each page, pointing to the relevant section of the [help](#) page.

p1 Demo

The new p1 user interface collects the same information as the old ESOFORM did, but the workflow may differ as it has been optimised to offer a more intuitive approach for the formulation of the observations and specification of, e.g., time constraints. Each step of the proposal preparation workflow includes 'mini-help' options that summarise the main instructions for that specific step.

We recommend that you familiarise yourself with the new interface by creating test proposals using the public [p1 demo](#). Here, you can get acquainted with the proposal preparation workflow, practice how to formulate your observing runs and set-ups, and test the submission. Remember that this is a *public* demo interface, hence be mindful about the information you are sharing.

The new p1 system offers several new features and allows users (PI, delegated PI, cols):


- to edit collaboratively the proposal;
- to correct an already submitted proposal (before the deadline);
- to visualize at a glance the visibility of a target and the probability of realization of the requested conditions;
- to retrieve target information directly from Simbad.

p1 is implemented using Google's [Angular](#) framework and it should work on any recent browser (Chrome, Firefox, Edge, Safari). The system requirements of p1 are less stringent than basic security requirements. If you suspect that p1 does not run because your browser is too old, you most likely have a dangerously old version. For more details, refer to [Angular](#)



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ESO User Portal Services

 Phase 1 Submit/edit an observing proposal Check the time allocation information	 Phase 2 Prepare observing materials Submit a target or set-up change request Check the status of your observing runs Delegate Phase 2 tasks	 Phase 3 Download the Science Data Products Standard Submit data Delegate Phase 3 tasks
 Archive Services La Silla Paranal data (raw) Science Portal (processed data) APEX reduced data Catalogue data Programmatic and Tool Access	Check your Archive requests Delegate proprietary data access rights Access ALMA data Archive homepage for other services	 Help Ask for help Find User Portal Information and FAQ Check the data reduction FAQ Go to the ESO Archive Community Forum

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eso.org/p1demo/proposals

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Phase 1 1.2.65 Proposals Overview ? Help DEMO ENVIRONMENT Phase 1/2 Tutorial Account

Create new proposal

Your Proposals ⓘ

Show my PI proposals

Period all periods clear

search by title or investigator

+ dwDQWDWQD

+ Nemidonam

+ Wasp-39

Proposals

Programme ID	Cycle	Title	Abstract	Status	PI	Actions
to be assigned	P108 · DDT P108 ProposalSubmission	dwDQWDWQD	ⓘ	Draft	Phase 1/2 Tutorial Account	Delete pdf
to be assigned	P108 · DDT P108 ProposalSubmission	Nemidonam	ⓘ	Draft	Phase 1/2 Tutorial Account	Delete pdf
to be assigned	P108 · DDT P108 ProposalSubmission	Wasp-39	ⓘ	Draft	Phase 1/2 Tutorial Account	Delete pdf

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eso.org/p1demo/proposals/19043/summary

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search by title or investigator

- dwDQWDWQD
 - Summary
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 - Observations
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 - Awarded & Future Time Requests
 - Previous Usage
 - Applicants' Publications
 - Comments
- Nemidonam
- Wasp-39

TITLE: dwDQWDWQD

⚠ Checklist

The following issues must be resolved prior to submission of the proposal.

- Attach a Scientific Rationale in PDF format.
- The input field 'Lunar Phase and Constraints Justification' must be filled. If not relevant, please type in n/a.
- The input field 'Time Justification' must be filled. If not relevant, please type in n/a.
- The input field 'Telescope Justification' must be filled. If not relevant, please type in n/a.
- The input field 'DDT Justification' must be filled. If not relevant, please type in n/a.
- The input field 'Calibration Request' must be filled. If not relevant, please type in n/a.
- The input field 'Duplication with ESO Science Archive' must be filled. If not relevant, please type in n/a.
- The input field 'GTO & Survey Target Duplication Justification' must be filled. If not relevant, please type in n/a.
- The input field 'Background and Expertise' must be filled. If not relevant, please type in n/a.
- Please select a minimum of 1 and a maximum of 1 Scientific Keywords.
- Target 'WASP-39' is not used. Please assign it to a run, attach it as a reference target to an observation, or remove it.
- Define at least one observing setup for run 1 'Run 1'.
- Associate at least one target to run 1 'Run 1'.
- The telescope time of run 1 'Run 1' must be larger than 0.
- Total telescope time 0.0h must be at least 0.1h.

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eso.org/p1demo/proposals/19043/rationale

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 - Comments
- Nemidonam
- Wasp-39

Proposal: dwDQWDWQD

Principal Investigator: Phase 1/2 Tutorial Account

Link to shared rationale document: you can paste here a link to Google Drive, Sharepoint, Overleaf... to keep a record of where you edit the rationale document. This is for your convenience only, ESO does not need nor use this link.

Rationale Link

https://www.wolframalpha.com/

Upload your scientific rationale in PDF format up to a size of **2 pages** and **5000kB**. Templates are available for

- [LaTeX](#), also available as a template on [Overleaf](#)
- Microsoft Word: [Normal Programme](#), [Large Programme](#), [Community Survey Programme](#) and [GTO Survey Programme](#)
- [Google Doc](#)

Scientific Rationale

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eso.org/p1demo/proposals/19043/targets

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Proposal: dwDQWDWQD

Principal Investigator: Phase 1/2 Tutorial Account

Define the targets you wish to observe. Include any required reference objects (such as Tip-Tilt Star, Natural Guide Star, Fringe Tracking Star, for the instruments that require them) and use the Comment or Target Notes fields to label them accordingly. A CSV file can be imported (see [help](#) for the format, and [for examples](#)). You can change their order by drag'n drop, and sort them by clicking on the column header. You can delete all targets or select targets to delete with **Shift** or **Ctrl** (**Command** on MacOS) key.

Targets

Import Targets Add Target Delete All Targets

Name	RA	Dec	Coord	Mags/Fluxes	Runs	Comment	Actions
WASP-39	14:29:18.415	-03:26:40.204	J2000	1		42	✕ 📄

Target Notes 0 of 1500 char ωτλ >

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Proposal: dwDQWDWQD

Principal Investigator: Phase 1/2 Tutorial Account

Each target/run combination constitutes an "observation". For each observation, you must fill the blue box with the telescope time requested to carry it out. You can change the repeat factor to perform the same observation multiple times, or set repeat to 0 to skip that observation. Additionally, you may (optionally) fill the details of the individual components of the observations, by clicking on the arrow/camera icon on the left side of each Observation. Be sure to include all overheads, as detailed in the [Overheads table](#). Refer to the [online help](#) for more details.

Observations

Show all Show all with details Collapse all

1. Run 1 · P108 · ESPRESSO · ToO-Hard · SM **Tel. Time: 0h00m**


FLI: 100% · Turb.: 50% (Seeing < 0.8 arcsec) · pwv: 30mm · Sky: PHO · Airmass: 2.8

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ESO Exposure Time Calculators

Documentation and Tools

- [Frequently Asked Questions](#)
- [Formula Book](#)
- [Database of efficiency profiles](#)
- [Previous ETC versions:](#)
- [SkyCalc Sky Model Calculator](#)
 - with advanced Almanac
 - command-line interface `skycalc_cli`

News and Notes

P110 - March 16, 2022

CRIRES ETC released for P110

- Correction in calculation of max. signal in central pixel
- Polarisation: The results refer to both polarized beams as opposed to one beam in the previous version
- Corrected the throughput in the circular polarimetry mode

ESO Exposure Time Calculators

	Imaging	Spectroscopy
La Silla	EFOSC2 SUSI WFI SOFI	EFOSC2 HARPS FEROS SOFI
Paranal UT1	FORS2	FORS2 KMOS
Paranal UT2	VISIR	UVES UVES-FLAMES GIRAFFE VISIR
Paranal UT3	SPHERE-IRDIS SPHERE-ZIMPOL	X-SHOOTER SPHERE-IFS CRIRES
Paranal UT4	HAWK-I	MUSE
Paranal ICCF		ESPRESSO
Paranal VISTA	VIRCAM	4MOST
Paranal VST	OmegaCAM	
ELT	ELT	ELT
VLT	GRAVITY MATISSE VisCalc CalVin	

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NOTE: As announced here, the fibre spatial profiles were improved in February 2015, and are now narrower and peak at higher ADU levels (10-30% higher). This will be helpful for programmes with faint targets. The ETC will issue a warning if your observations reach close to saturation. In this case, please consider shorter exposure times and/or multiple exposures. Typically this should happen only if your targets are brighter than $V \approx 11$.

Source Model

Input Flux Distribution:

<input type="radio"/> Uniform (constant with wavelength)	Target Magnitude and System:
<input type="radio"/> Template Spectrum: Elliptical Galaxy Redshift z = 0.00	V = 17.00 <input checked="" type="radio"/> Vega <input type="radio"/> AB
<input checked="" type="radio"/> Blackbody: Temperature : 11000.0 K	Magnitudes are given per arcsec ² for extended sources.

Source Geometry: Point Source
 Extended Source

Sky Conditions

Moon FLI: 0.50 Airmass: 1.50
 Almanac

PWV: 30.0 mm Probability > 95% of realising the PWV \leq 30.0 mm

Seeing/Image Quality:

Turbulence Category: 70% (seeing \leq 1.0") (FWHM of the atmospheric PSF outside the telescope at zenith at 500 nm)
 IQ: arcsec FWHM at the airmass and reference wavelength

Image Quality FWHM : 1.20 arcsec (to be used for OB constraint set)

show details of the IQ calculations

Instrument Setup

Grism: LR01
Object-fiber displacement : 0.3 arcsec
Detector Carreras in standard read mode with binning 1

Results requested

Signal to Noise of 20
Range 50(%)

Setup name	:	LR01
Reference Wavelength	:	385.700 nm
Wavelength Range	:	362.349 - 408.089
Fiber / Sky Sampling Mode	:	MEDUSA
Dispersion	:	0.012 nm/pixel
Plate scale	:	0.300 "/pixel
FWHM of the fiber spatial profile	:	4.001 pixels
Efficiency at reference wavelength (no extinction)	:	1.830 %
Efficiency at reference wavelength (with extinction)	:	1.076 %
Fiber injection loss note	:	55.693 %
Loss due to object-fiber displacement note	:	11.530
Total object signal at reference wavelength	:	671.592 e-
Sky background signal at reference wavelength	:	359.979 e-
Max. intensity note at reference wavelength (obj+sky)	:	238.797 e-/pixel
Detector saturation	:	152043 e-
Detector read-out noise level	:	4.000 e-/pixel
Detector dark current	:	0.503 e-/pixel/hour
Number of Fibers covering the source note	:	1
Fiber diameter note	:	6 pixels
Exposure Time (1 exposure)	:	57584.605 seconds
Signal to Noise at reference wavelength note	:	20.000
Mean Signal to Noise	:	16.284
RMS Signal to Noise	:	17.893
Signal to Noise near maximum transmission note	:	19.530

Warning: Please be aware that without a waiver there is a one-hour execution time limit for Service Mode OBs, and that the times returned here **do not** include instrument overheads, times for sky measurements, etc. Thus, care must be taken to allow for these additional times when constructing compliant OBs.

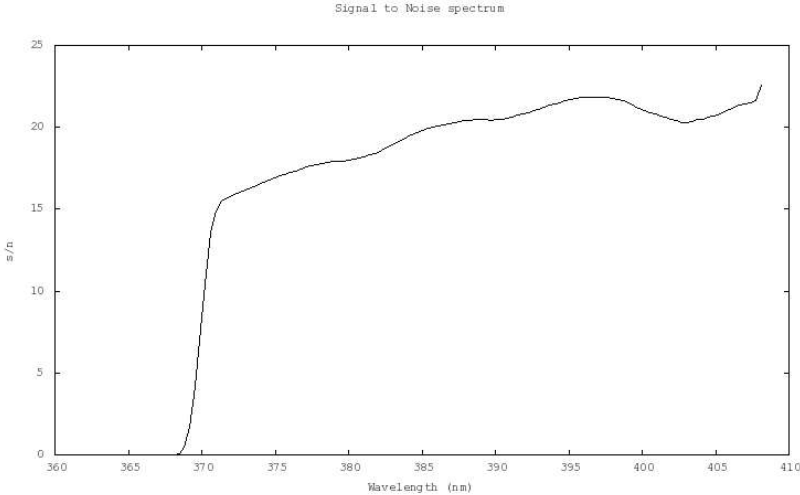
Max.intensity (central spatial pixel) of Object+Background

Signal to Noise Spectrum (per spectral pixel)

Over 1 pixel along the dispersion and 2*FWHM(image quality) along the slit.

ASCII Interactive PDF

log(y) plot
log(y) PDF



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Object Observability

See also: [Object Observability - Airmasses](#) - [Daily Almanac](#) - [Sky Calendar](#)

This tool provides object observability tables based on site, object coordinates and observing period. Times are given for the local time, including daylight saving times when applicable. Please be aware that the dates of the change of savingtimes are generally not correct, and there may be difference with local time around these dates.

Select site, object coordinates and observing period; then press **Compute**.

More detailed information is provided in a separate document Notes for Skycalc by John Thorstensen.

Site:

Dates (yyyy mm dd):
From: To:

Object Coordinates (J2000)
RA: Dec:

compute

Skycalc provided by courtesy of John Thorstensen, Dartmouth College. John.Thorstensen@dartmouth.edu

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The ESO Sky Calendar Tool

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See also [Object Observability](#) - [Airmasses](#) - [Daily Almanac](#) - [Ephemerides](#)

Observability for 00 00 00 -70 00 00

Paranal Observatory (VLT)

RA & dec: 0 00 00.0, -70 00 00, epoch 2000.0
Site long&lat: +4 41 36.8 (h.m.s) West, -24 37 30 North.

Shown: local eve. date, moon phase, hr ang and sec.z at (1) eve. twilight, (2) natural center of night, and (3) morning twilight; then comes number of nighttime hours during which object is at sec.z less than 3, 2, and 1.5. Night (and twilight) is defined by sun altitude < -18.0 degrees.

Date (eve)	moon	eve		cent		morn		night hrs@sec.z:		
		HA	sec.z	HA	sec.z	HA	sec.z	<3	<2	<1.5
2022 Sep 9	F	-5 38	2.4	-0 47	1.4	+4 03	1.8	9.7	8.7	3.8
2022 Sep 25	N	-4 29	2.0	+0 10	1.4	+4 49	2.1	9.3	9.1	3.8
2022 Oct 9	F	-3 27	1.7	+1 01	1.4	+5 28	2.3	8.9	8.1	3.8
2022 Oct 24	N	-2 18	1.5	+1 57	1.5	+6 12	2.7	8.5	6.9	3.8
2022 Nov 7	F	-1 11	1.5	+2 52	1.6	+6 55	3.2	7.9	5.8	3.1
2022 Nov 23	N	+0 06	1.4	+3 58	1.8	+7 49	4.0	6.6	4.5	1.8
2022 Dec 7	F	+1 14	1.5	+4 58	2.1	+8 43	5.3	5.5	3.4	0.7
2022 Dec 22	N	+2 23	1.5	+6 05	2.6	+9 47	7.7	4.3	2.3	0.0
2023 Jan 6	F	+3 26	1.7	+7 11	3.4	+10 56	11.1	3.3	1.2	0.0

SkyCalc provided by courtesy of John Thorstensen, Dartmouth College. John.Thorstensen@dartmouth.edu

[Send comments to usd-help@eso.org](mailto:usd-help@eso.org)
Last update: November 10, 2006

