User Support Department

ESO
European Organisation for Astronomical Research in the Southern Hemisphere

50 YEARS 1962–2012

Phase 2 Users Workshop 2012

Programme

10:00 - 10:10	Welcome and Introduction (Marina Rejkuba)
10:10 - 10:25	Phase 2 overview (Christian Hummel)
10:25 - 10:50	The new Phase 2 Proposal Preparation tool (Monika Petr-Gotzens)
10:50 - 11:15	Coffee break
11:15 - 11:40	Service mode observations execution, ranking and tips (Vincenzo Mainieri)
11:40 - 12:00	VLT/VLTI overview (Markus Wittkowski)
12:00 - 13:30	Lunch break
13:30 - 15:00	Practical Tutorial Session 1
15:00 - 15:30	Coffee break
15:30 - 16:30	Practical Tutorial Session 2
16:30 - 17:00	Feedback from Participants and Summary

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Phase 2 overview

Christian Hummel

(with input by Marina Rejkuba)

Service mode at ESO

Phase 1

- Observing proposals: ask for time
- Targets, instruments, and constraints

Phase 2

- Observing instructions: tell us what to do
- OBs, finding charts, ephemeris, Readme

Phase 3

- Observation follow-up: Surveys and LPs
- Return reduced data to archive

Service Mode Principles

- Maximize the **science output**
  - Highest ranked programmes have execution priority and are executed under optimal (i.e. required) observing conditions
- Maximize the **operational efficiency**
  - Sharing calibrations between the programmes
- Maximize the **scientific use of telescope time** under any condition
  - Minimize idle time

Service Mode Rank Classes

- A: highest priority – carried over if not completed
  - Carry-over A-ranked runs from the previous period
  - Large Programmes
  - Chilean Programmes
  - Target of Opportunity
  - Normal A-ranked runs
- B: medium priority
  - Observed if there is no competing higher ranked (A) programme at the same RA and for the same observing conditions
  - Best effort completion, PIs should prioritize observations
- C: low priority (“fillers”)
  - Should be executable under just about any conditions

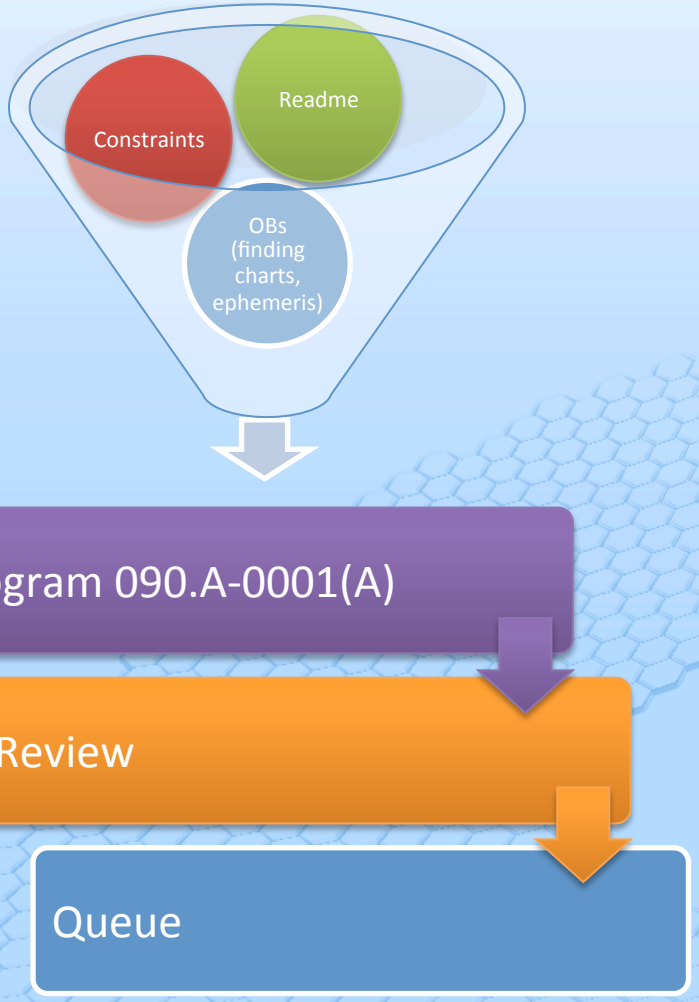
Service Mode vs. Visitor Mode

- Visitor mode
  - Normally used for challenging programmes
  - Real time decisions during the visitor mode observations, e.g.:
    - If S/N of Obs.1 is larger than X, then exposure time of Obs. 2 should be changed to Y
- Service Mode
  - Observations are self-contained within scheduling units (OBs) that can be executed within the requested constraints
    - No “saving of overheads” or “long” sequences
  - Observations are performed when requested constraints are met
    - If not within constraints → repeat without charging the user

"Breaking" the rules

- SM Rule Waivers (General and Instrument Specific)
  - Approval requires input from Paranal → may take ~1 week
  - Clear scientific & technical justification (even better if in proposal!)
  - E-mail: p2pp-waiver@eso.org
- Target and setup change request
  - Target/observation duplication check
  - Web form: http://www.eso.org/sci/observing/phase2/ProgChange.html
- Phase 2 deadline extension request
  - E-mail: usd-help@eso.org

Phase 2 process



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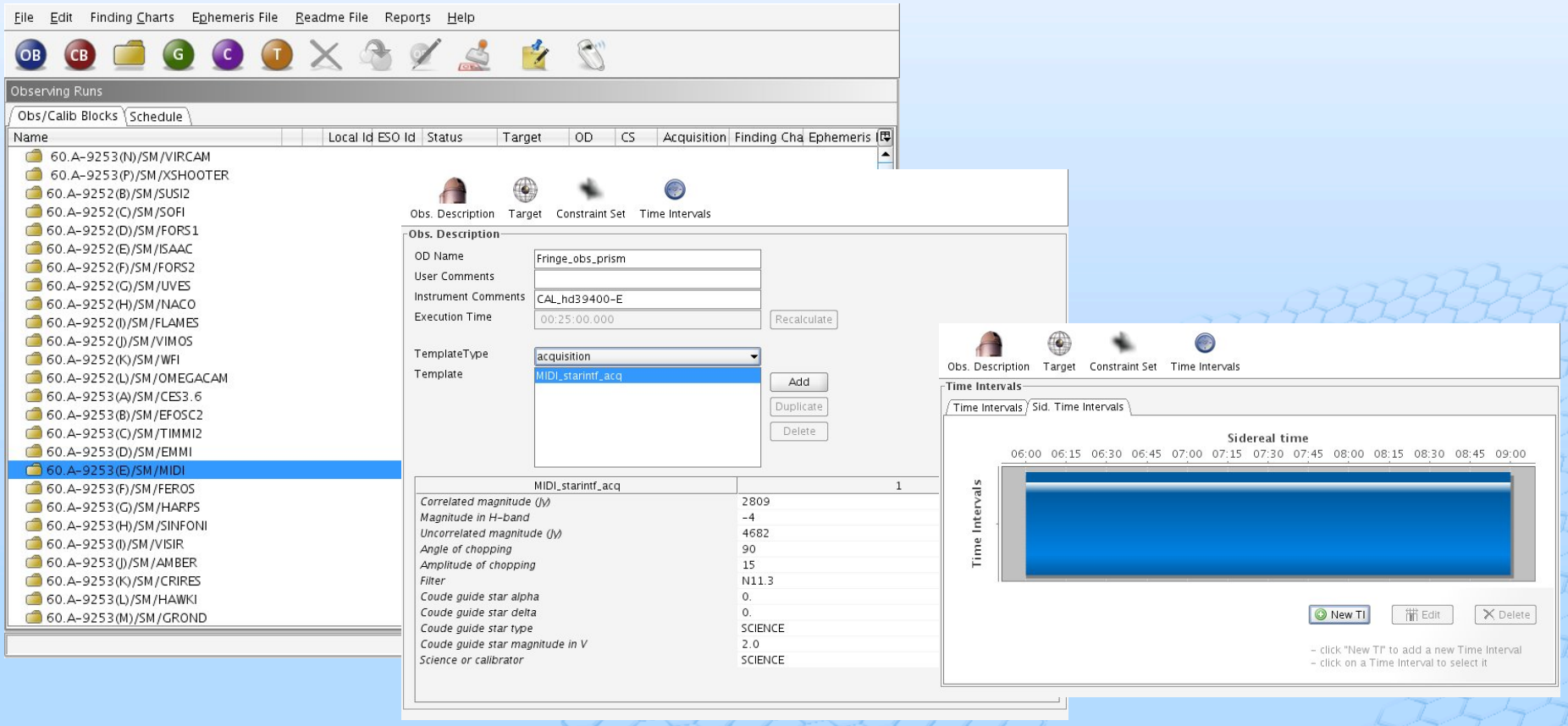
Phase 2 Preparation Tool



- This tool is used to prepare OBs, set constraints, attach finding charts, and provide further instructions as necessary
- Downloads your runs and associated instrument packages

Phase 2 material preparation

- Observation Block (OB)
  - Templates: acquisition + science + (attached calibration)
  - Target
  - Constraint Set
  - Absolute Time Windows
  - Scheduling information: User Priority, group contribution, time delays
- Calibration Block (CB)
  - No target information! Only for instrument calibrations (dark, arc, …)
- Calibration Observation of a target on sky → Calibration OB
- Finding charts – there are instrument specific rules
- README file – make it clear and concise

Phase 2 material review

- Does the submitted material correspond to requested and thus allocated time, instrument setup, and targets?
- Is it prepared according to the service mode rules? (Verification script)
- How efficient is the observing strategy? Can it be more efficient?
- Will the submitted Phase 2 material permit to achieve the stated direct observation goals?
- In case the programme is in the A/B/C rank class are the constraints requested reasonable? Can they be relaxed?

Programme execution

- Target indicated in the finding chart is actually a binary → which one to put in the slit?
- Reference targets have poor astrometry
- Finding chart does not correspond to the target in the OB
- Part of the spectrum saturates with the requested observing time → is this desired?

Paranal observer sends a ticket: usd-help@eso.org

User Portal

- New features: data and Phase 2 delegation
  - Delegate access to proprietary data to other “Co-Is”
  - Allow **one** other “Co-I” to prepare and submit observations (cache is not shared!)

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Observing Run progress page

European Southern Observatory

Service Mode Observing Run Progress Report

ESO — Reaching New Heights in Astronomy

The ESO Science Archive: It is possible to query the ESO Science Archive to see which object has been observed for you. Just query the database using your Programme ID, Observing run ID, or the name of the object. Alternatively, in the list of executed OBs shown below you may click on an OB ID to access all raw data files produced with that Observation Block. Also note that for observing runs prior to Period 88 you may access the reduced data at any time using the "PIpack" service.

Back to list of Service Mode runs

Your Period 80 Observing Programme:

Stellar population guide to the pre- and post-starburst phases of nearby galaxies

Observing Run Requirements:

RunID	Period	Instrument	Telescope	OPC hours	Moon	Seeing	Status	Progress
080.B-0692(A)	80	VIMOS	UT3	11.00	grey	0.80	TERMINATED/EP	Data: SENT FULL release Release date: Apr 18 2008 11:25:03:106AM

Last update: Mon Jan 9 15:31:36 2012
Explanation of entries in the Table

Observations to date:

Date	OB ID	OB Name	Status	Atmospheric Conditions
5 -6 February 2008	290106	IMG NGC5102_F2_V3	Completed	ACD
5 -6 March 2008	290100	IMG NGC5102_F1_BVRphot	Completed	ACD
	290107	IMG NGC5102_F2_BVRphot	Completed	ACD

Done

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Ask for Help