

# ESO user support and proposal preparation tools for MIDI

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Ringberg Workshop  
Long Baseline Interferometry in the Mid-Infrared  
1.-5. September 2003



# General VLT operations scheme

- VLT operations will follow the same procedure as established for the instruments at the single UTs.
- Point of contact is the User Support Group, [usg-help@eso.org](mailto:usg-help@eso.org).
- MIDI in P73 is offered in Service and Visitor mode.
- Baseline choice and Sidereal Time are additional constraints.
  
- **Phase 1 proposal preparation:** Electronic submission of proposals; Tools: ESOFORM package, VisCalc, (ETC); Evaluation by the OPC.
- **Phase2 proposal preparation:** Design of observation by creation of observing blocks (OBs), i.e. specification of template parameters, target information, user defined constraints. Tools: p2pp, VisCalc, CalVin, (ETC).
- Execution of the OBs on Paranal.
- Archiving, data quality control, delivery of the data.

# Documents

- MIDI user manual: from [www.eso.org/instruments/midi](http://www.eso.org/instruments/midi)
- MIDI instrument webpage: [www.eso.org/instruments/midi](http://www.eso.org/instruments/midi)
- Phase 1 information: [www.eso.org/observing/proposals](http://www.eso.org/observing/proposals)
- Service Mode guidelines:  
[www.eso.org/observing/p2pp/ServiceMode.html](http://www.eso.org/observing/p2pp/ServiceMode.html)
- Visitor Mode guidelines:  
[www.eso.org/observing/p2pp/VisitorMode.html](http://www.eso.org/observing/p2pp/VisitorMode.html)
- P2PP tool: [www.eso.org/observing/p2pp](http://www.eso.org/observing/p2pp) , p2pp user manual
- Auxiliary tools: [www.eso.org/observing/support.html](http://www.eso.org/observing/support.html)

# MIDI specific Phase 1 issues

- See the CfP and User Manual for available modes and baselines.
- VLT/MIDI UT time allocation depends on no. of proposals and OPC evaluation. ESO recommends to propose observations that can typically be completed in one night or less.
- Slots of 1 hour per calibrated visibility point including one target observation and one calibrator observation.
- Calibrators have to be selected during Phase 2 preparation.
- Standard constraints: Moon (grey for  $V \sim 16$ ); Clear/photometric conditions for MIR; Seeing not important for image quality at MIR; service/visitor mode.
- Additional constraints: Baseline has to be specified in the proposal; LST can be specified at Phase 2 preparation (time justification).
- Visibility amplitude and correlated magnitude have to be specified in the proposal (with the help of VisCalc), as well as  $\lambda_{\text{obs}}$  ( $10.3 \mu\text{m}$ ) and  $\lambda/\Delta\lambda$  (20).

# MIDI specific Phase 2 issues

- Preparation tools VisCalc (visibility calculator) and CalVin (calibration star selector).
- Creation of Observing Blocks (OBs) using p2pp application, Finding Charts, and README file.
- MIDI template manual will be available for Phase 2 of P73 from [www.eso.org/instruments/midi](http://www.eso.org/instruments/midi).
- Check for MIDI specific service mode instructions on [www.eso.org/observing/p2pp](http://www.eso.org/observing/p2pp).
- LST constraint will be available in p2pp application.
- Baseline constraint will probably be indicated by the OB name.
- OBs include 1 target observation and 1 calibrator observation, and will be accounted with 1 hour, independent of source brightness.
- All calibrator observations will be publicly available through the archive.

# MIDI specific preparation tools

- Visibility calculator VisCalc has already been released for P73.
- Calibrator selection tool CalVin will be released later.
- These tools are (will be) available at [www.eso.org/observing/etc](http://www.eso.org/observing/etc).
- => Demonstration of these tools by Pascal Ballester.