

QC and analysis of MIDI data using mymidigui and OYSTER

A research pipeline

This work *is not* ...

- in competition to QC department
- to provide and support reduction software
- to replace pipelines for QC1 at Paranal

This work *is* ...

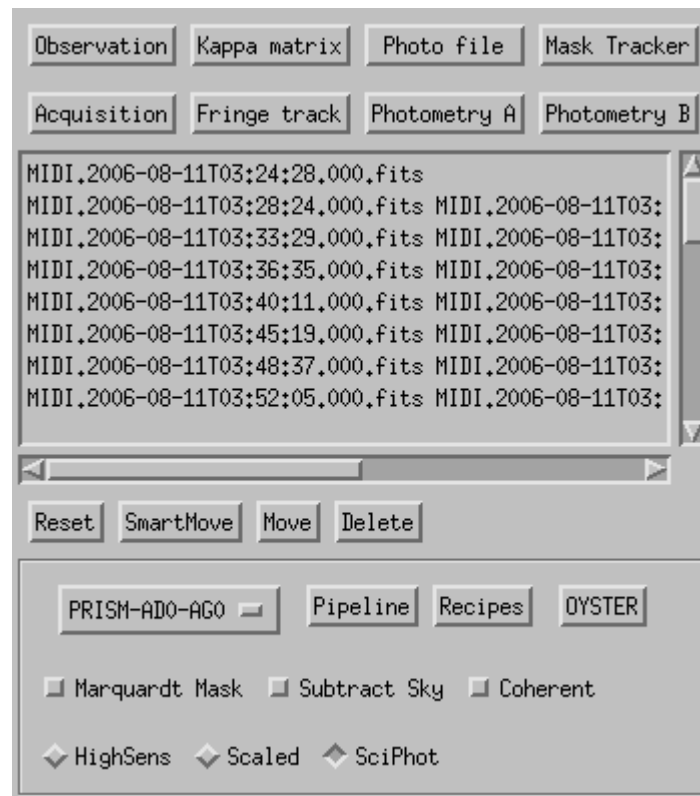
- to combine the best data reduction software available to date with a pipeline and a general purpose interferometry package
- to use the public observations of calibrators in order to study instrument and data reduction performance
- therefore to gain insight in the reliability of the science results

mymidigui

- Front end to MIA+EWS (Koehler, Jaffe, et al.)
- Integrated into OYSTER general interferometry software package
- Based on IDL
- Originally written to support QC1 at Paranal

mymidigui

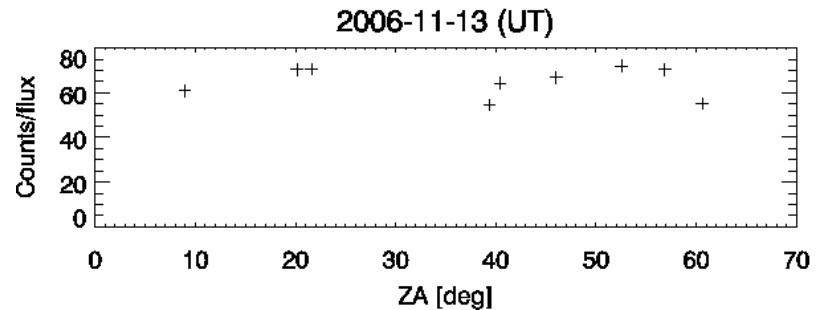
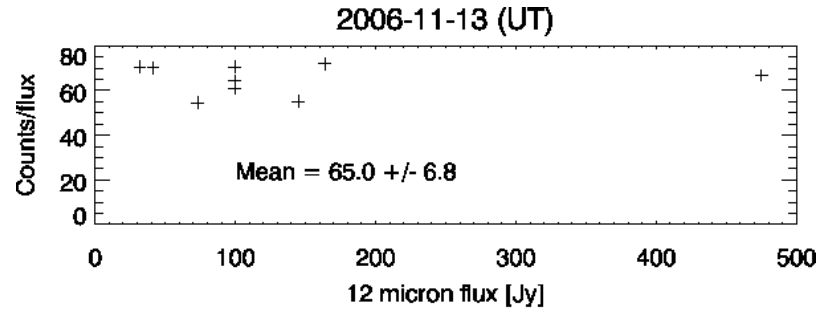
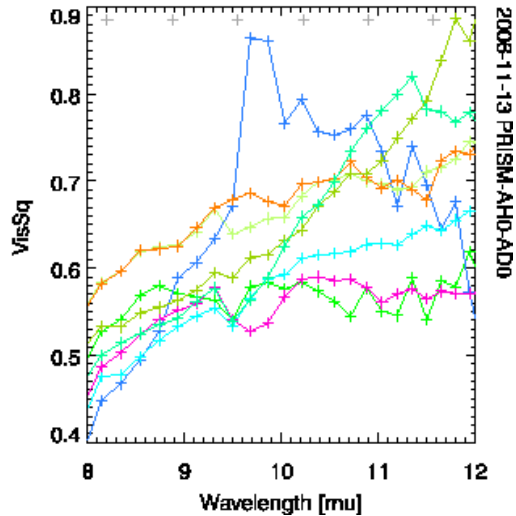
- File management
- Interactive reduction
- Pipeline
- OIFITS output



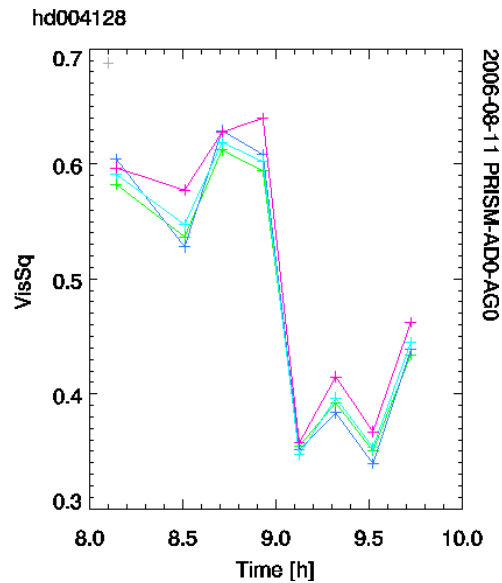
Recent AT operations on 64 m

HD4128 hd-11961 HD_18884 HD_36389 HD_48915
 hd82668

OB 1 BI 1 Pt 16
 OB 1 BI 1 Pt 13
 OB 1 BI 1 Pt 11
 OB 1 BI 1 Pt 9
 OB 1 BI 1 Pt 7
 OB 1 BI 1 Pt 2
 OB 1 BI 1 Pt 4
 OB 1 BI 1 Pt 1

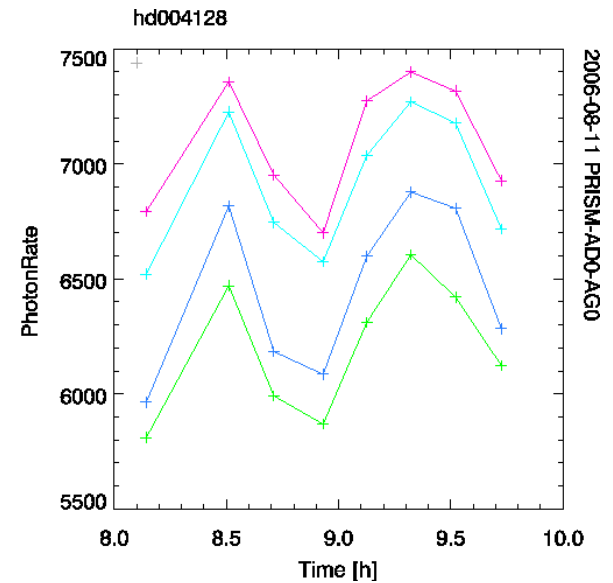


Variations of the MIR transfer function



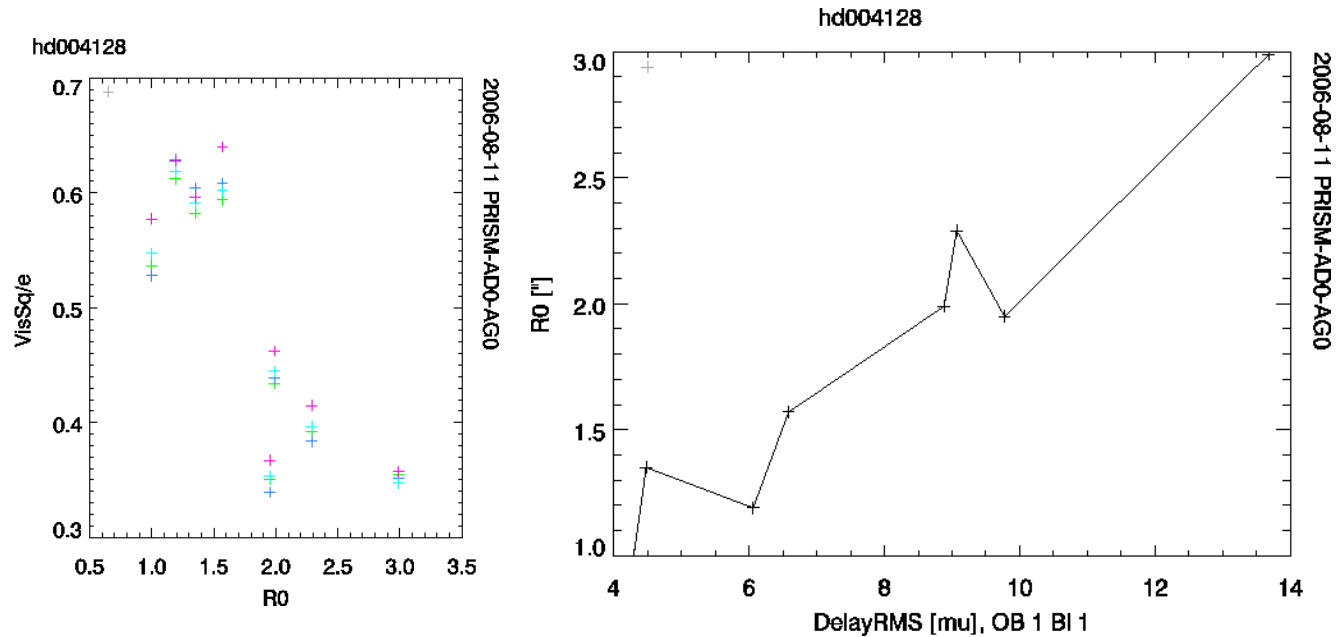
OB 1 BI 1 Ch 33
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OB 1 BI 1 Ch 31
OB 1 BI 1 Ch 30

OB 1 Ch 33
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OB 1 Ch 30

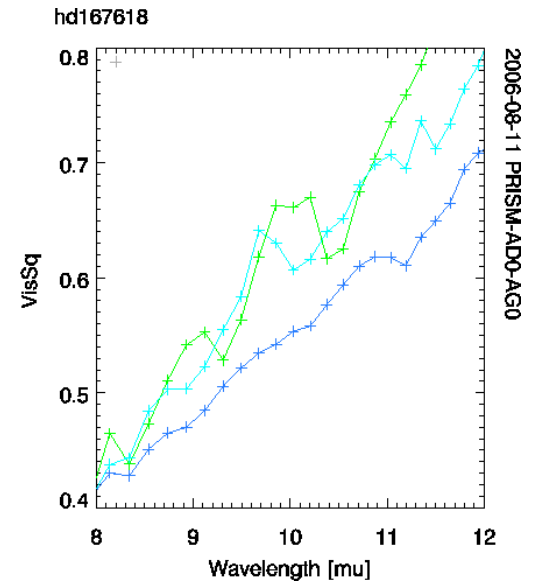
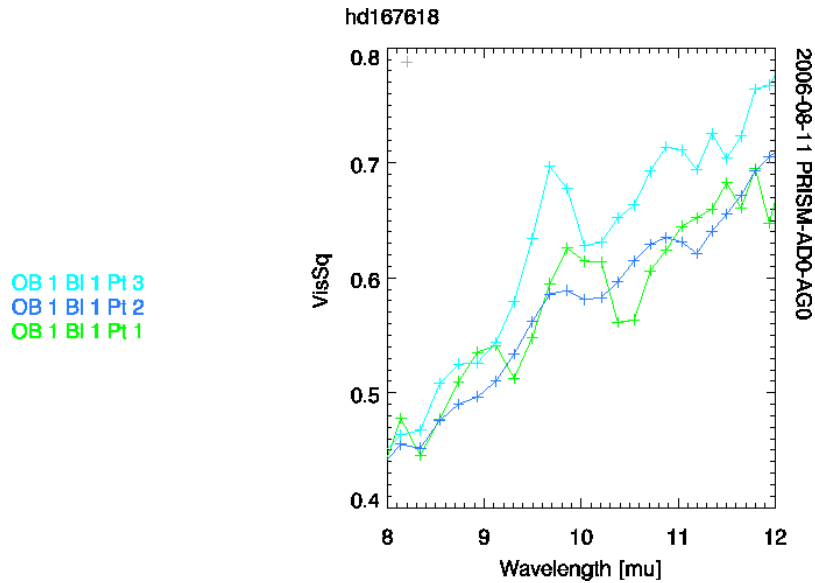


Dependence on seeing

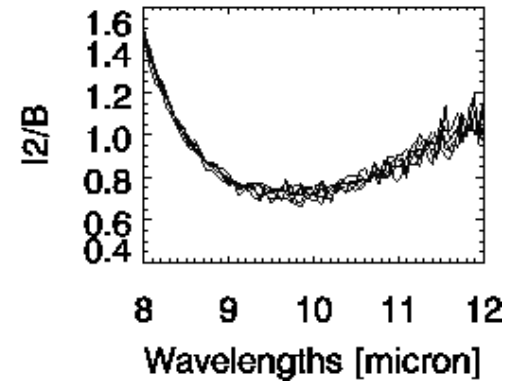
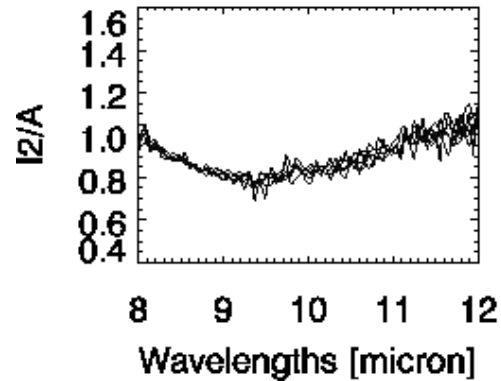
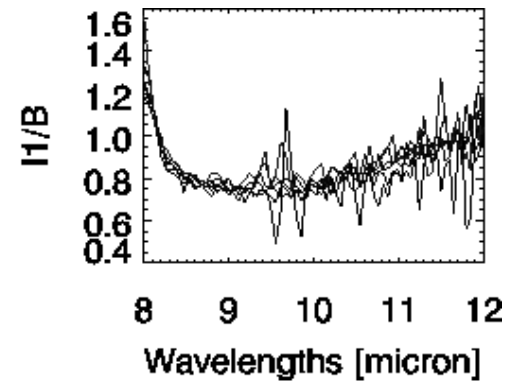
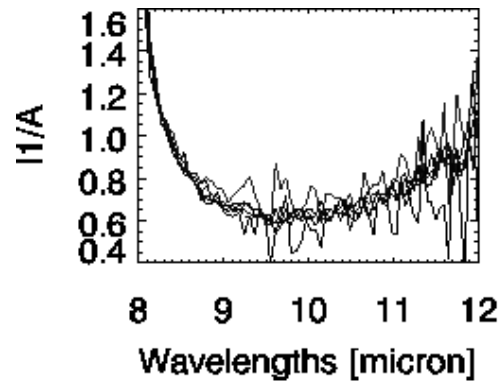
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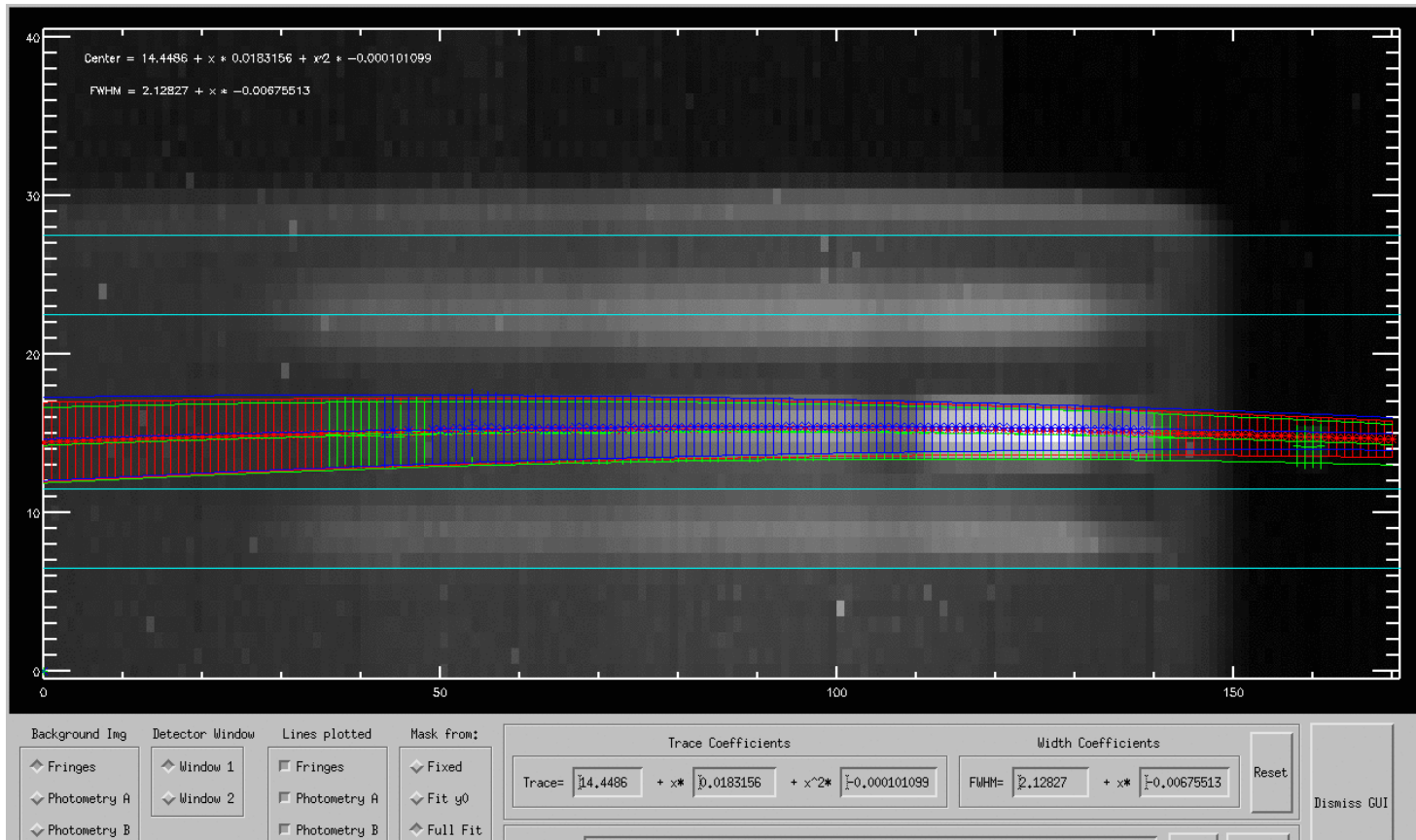
HIGH_SENS vs SCI_PHOT



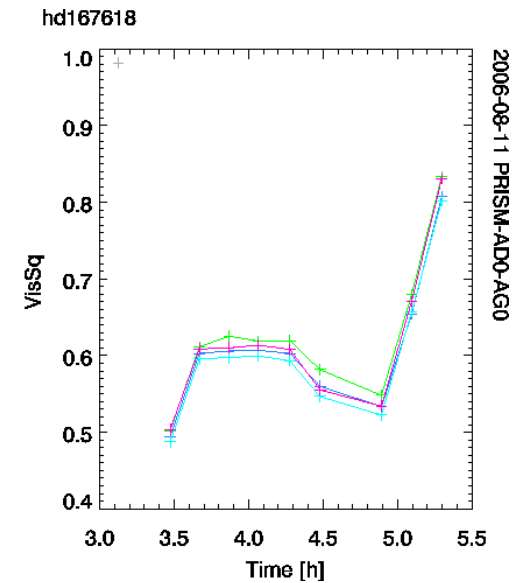
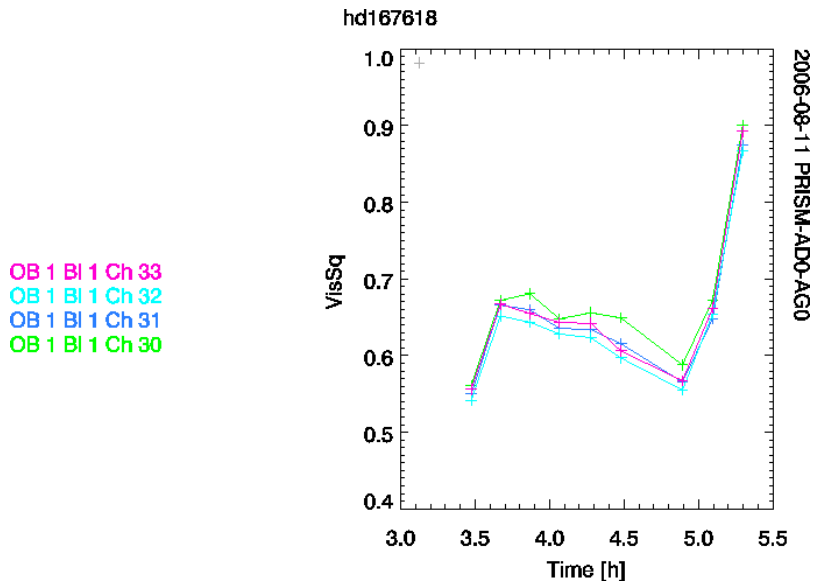
Kappa matrix stability



Issue w/ATs: sky windows

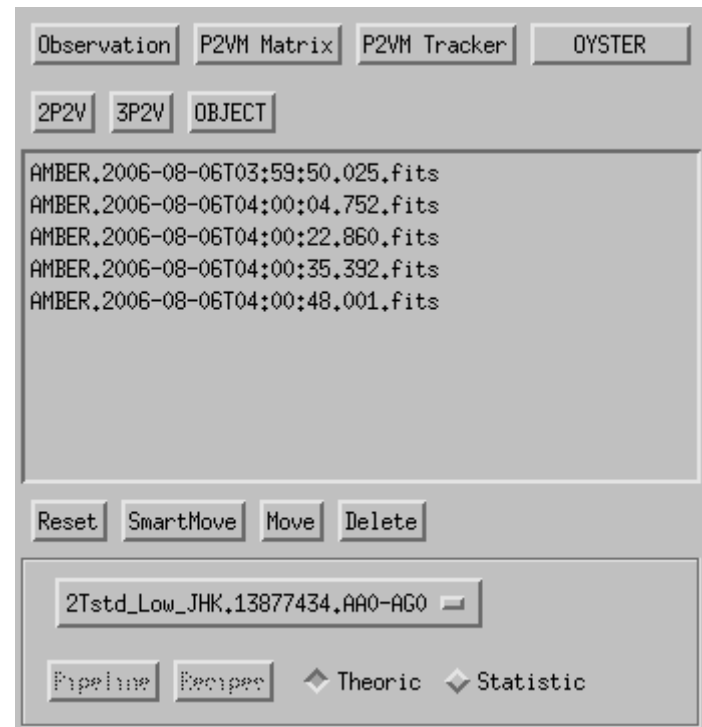


Sky window effect for ATs

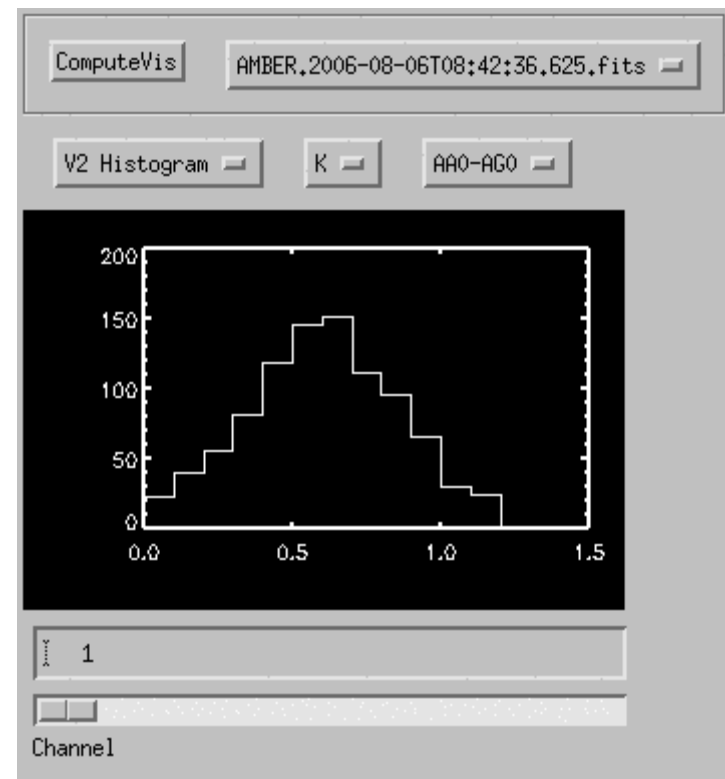
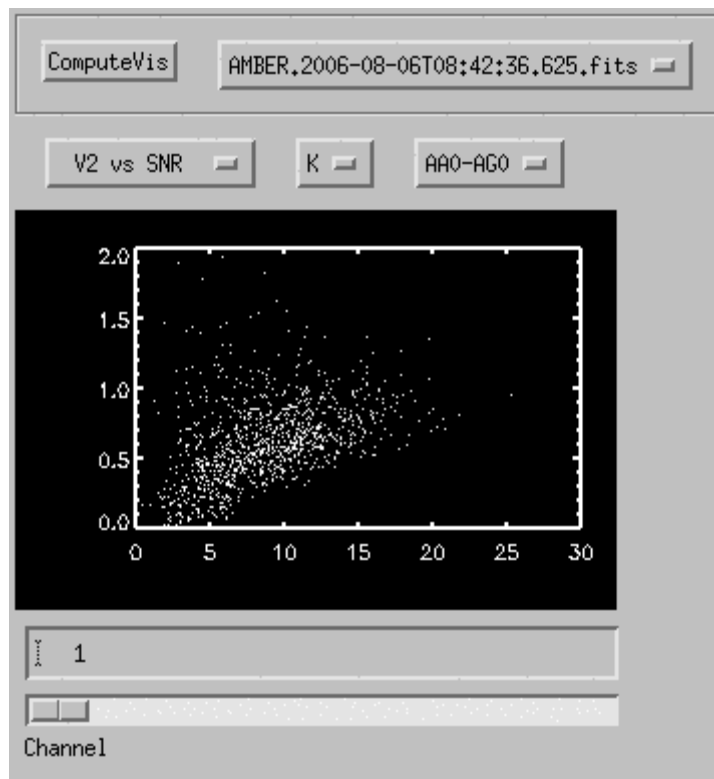


And the future...

- myambergui !
- IDL based interface for amdlib (Duvert et al.)
- Same implementation as mymidigui



Frame results



Variations of the NIR transfer function

