

Magellan f/5 Instrumentation Status

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Outline

- April Engineering Run
- MegaCam Readiness & Schedule
- MMIRS Status & Schedule
- Commissioning and Science Operations Plan
- f/5 Support Plan
- Cadence of f/5 Campaigns

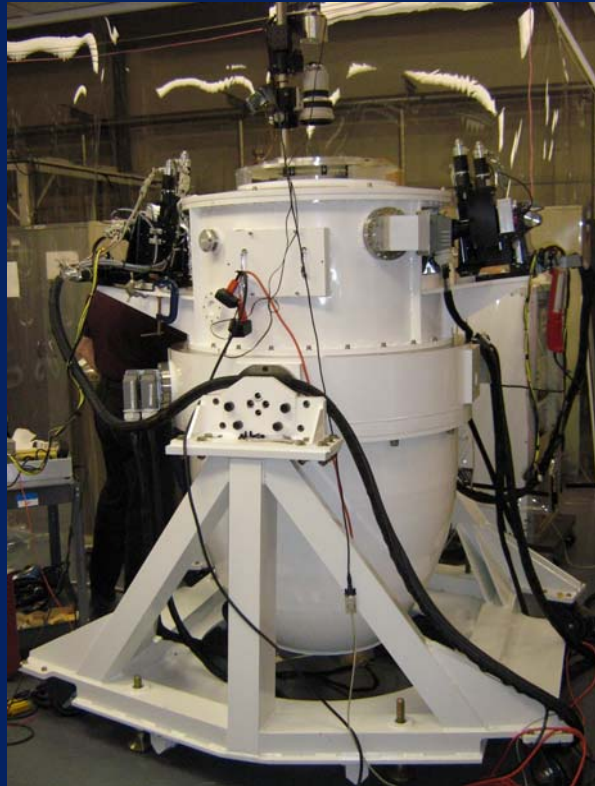
April Engineering Run

- 9 Night run is scheduled 5-13 April
- First test of closed-loop f/5 secondary support.
- Bare Cass test of Clay f/5 optical performance
- Narrow field test of f/5 Wide Field Corrector optical performance
- End-to-end test of f/5 system - guide, WFS, other f/5 telescope interfaces.

MegaCam Readiness

- In regular use @ MMT
- Ships right after 24 May 2009
- Commissioning run August 2009
- Re-commissioning run in Dec 2009
- Science ops start Sem I, 2010
- Baffle design in process
- Support agreement nearly complete
- Need to schedule pre-ship review

MMIRS Status



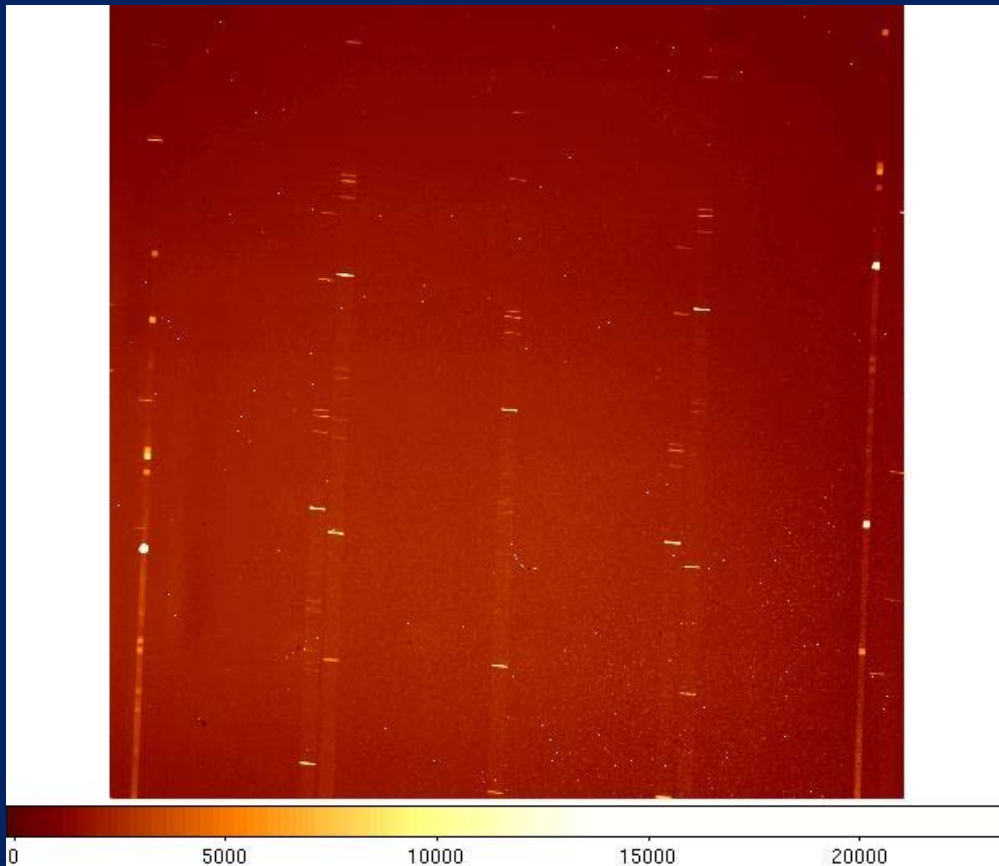
MMIRS being tested with the
Star Projector

Major Milestones

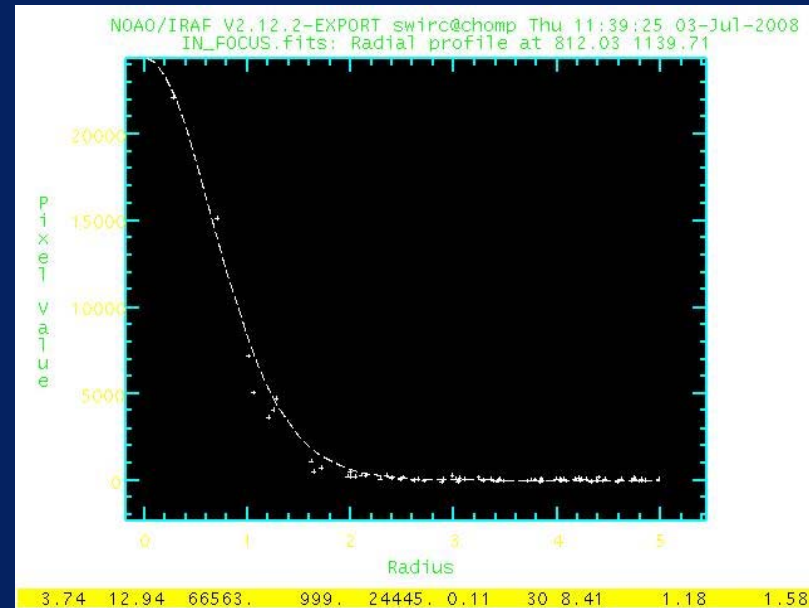
- ❖ “First Light” through spectrograph June 2008
- ❖ Star Projector image with science camera
January 2009
- ❖ WFS/Guider testing Feb 2009

Some mechanical parts still in
fabrication

First Light Images

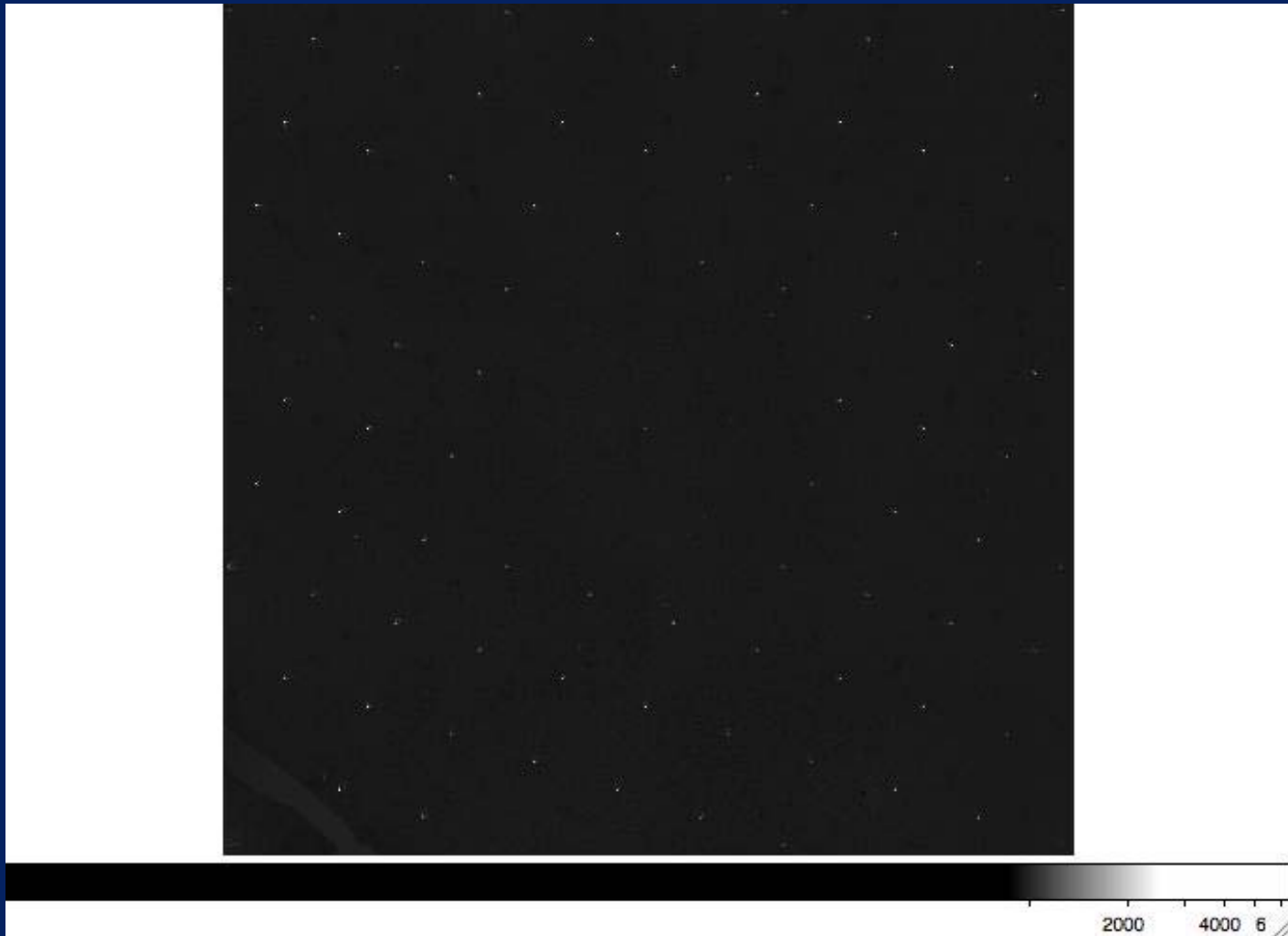


First light image



PSF measured with pinhole

Star Projector Image



MMIRS Schedule

- Ships to MMT 22 Apr 2009
- MMIRS scheduled for 7 nights @ MMT starting 12 May
- 9 more nights in June
- Will have September run @ MMT and then ship to LCO for December/January commissioning run.

Commissioning and Science Operations Plan

2009

- April - Demonstrate Clay f/5 performance
- Mid April - MMIRS ships to MMT
- May - MegaCam pre-ship review
- MMIRS run @ MMT
- Late May - Ship MegaCam to LCO
- MMIRS run @ MMT
- Late July - MegaCam arrives @ LCO
- August - MegaCam commissioning run
- September - MMIRS commissioned at MMT / Pre-ship MMIRS review
- Late Sept - Ship MMIRS / f/5 instruments approved for science ops 2010 Sem I
- Early Nov - MMIRS arrives @ LCO
- Dec - MMIRS commissioning run / MegCam re-commissioning run

2010

- Two month (TBD) f/5 run
- MMIRS and Megcam ship back to MMT
- TBD

Magellan Support Plan

- In the process of hiring 1/2 FTE electrical engineer.
- French national/Santiago resident
- Sharing with Andres Jordan to support HAT South
- Will contribute to support of LDSS3 in 2009
- Balance of Harvard time to support f/5
- SOW (18 pages) in final draft

Cadence of f/5 Campaigns

- Depends on factors still TBD
 - Difficulty shipped between hemispheres
 - Demand @ Magellan vs. MMT
 - Instrument “crowding” at MMT and Magellan
 - Suitability at MMT vs. Magellan

