



# f/5 Status & Planning

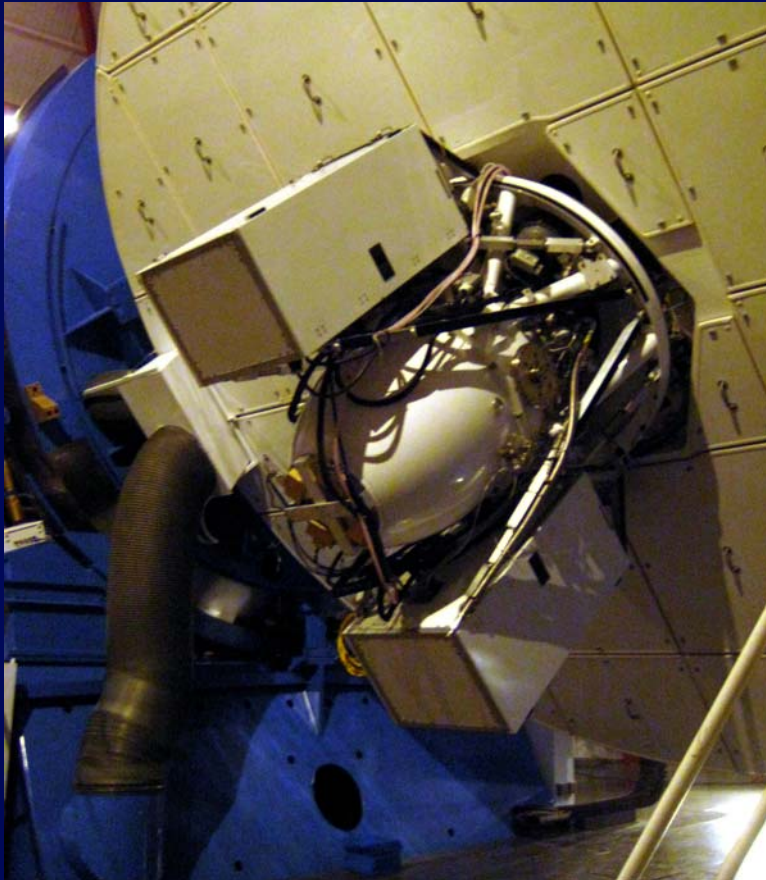
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- Results of MMIRS first light run
- Planning for first science campaign
- 2010b campaign planning & pre-allocation
- 2011 planning



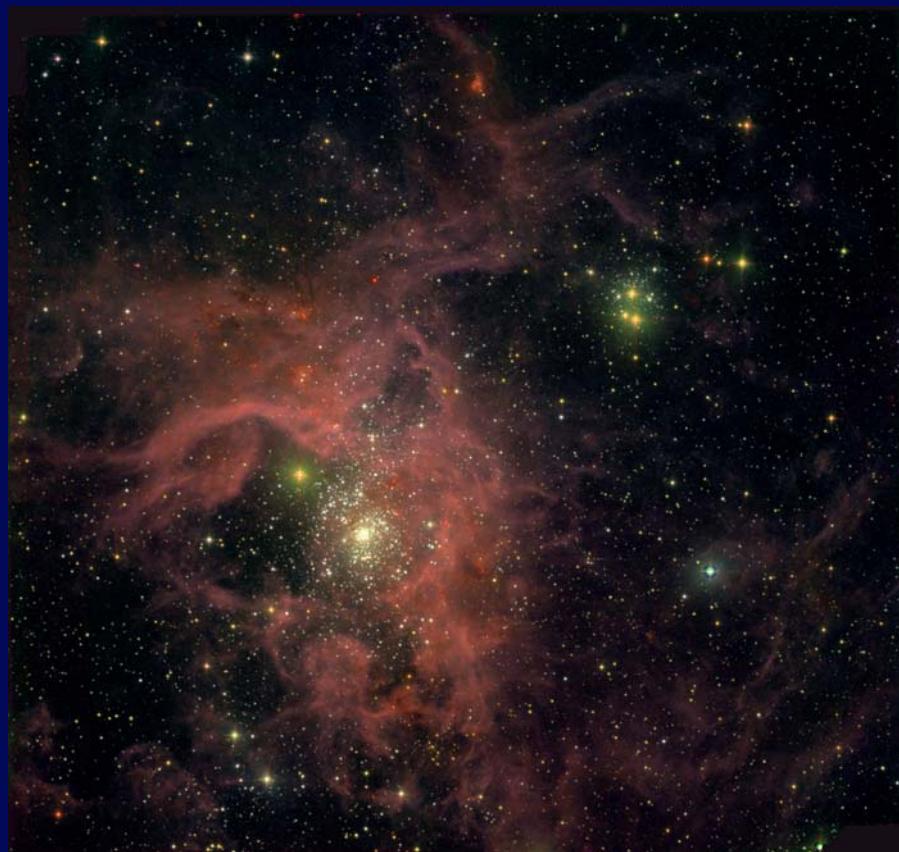
# MMIRS First Light Run

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- Imaging results
- Long slit results
- Lack of multislit results
- Flexure problem
- Baffle problem

# Imaging and Longslit Observations



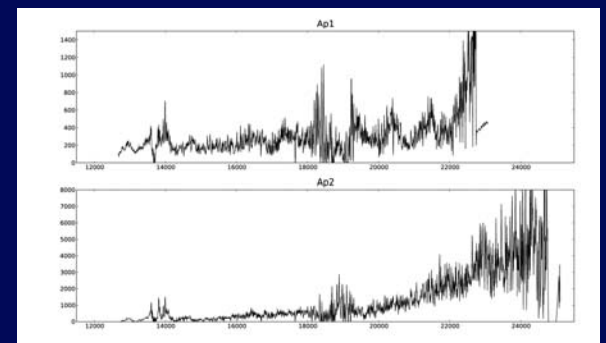
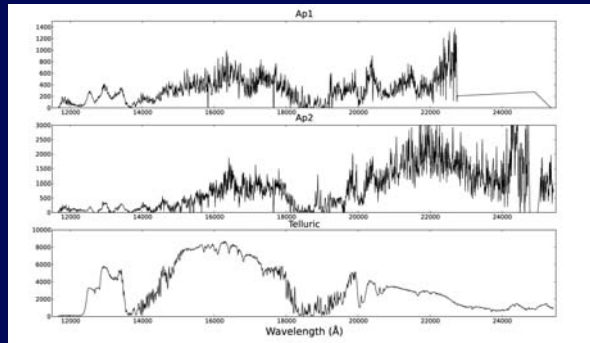
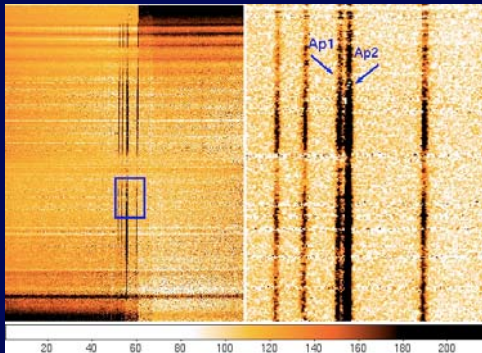
- Imaging demonstrated successfully
- Several longslit observations done
- Still being analyzed
- Weather late in run not good ... spectroscopic observations curtailed.

Tarantula Nebula J,H,K pseudocolor – 0.4" seeing



# Multislit Spectroscopy

- Poor weather prevented demonstration multislit capability
- MMIRS has operated successfully in multislit mode on MMT





# Flexure Problem

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... is not a (flexure)  
problem.



# Baffle Problem

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- MMIRS is somewhat underbaffled
- Light leak – problem for K band obs
- Have designed and built a new deployable baffle to correct this



# Planning for First Science Campaign

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- Staffing
- Slitmasks
- Deployable baffle
- New grism



# 2010a f/5 Staffing

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- f/5 run 24 March - 3 May
- SAO team members already at LCO installing new grism and deployable baffle
- SAO f/5 team presence from start of run until 23 April
- Osip & Postdocs to cover last week w/support from V. Suc
- Schedule “soft” due to irregularity of transportation



# Slitmask Production

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- 2010a masks produced with by SAO staff
- Would like to retire this responsibility – mask design and fabrication
- *xfitmask* software nearly ready for general use
- instructions on use @:

<http://www.cfa.harvard.edu/wiki/mmti/MMTI/MMIRS/ObsManual/MMIRS+Mask+Making>

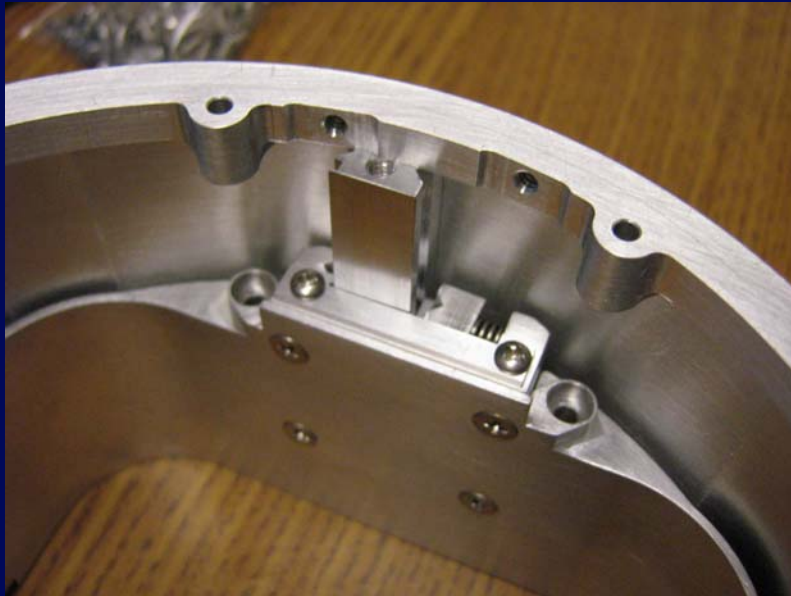
- Requires SAO network access
- Only competent vendor for mask we are aware of is:

**PhotoMachining Inc.**  
**4 Industrial Park Drive**  
**Pelham, NH. 0307**  
**P.:603-882-9944; F.:603-886-8844**



# Deployable Baffle

- f/5 team currently installing deployable baffle in LCO clean room
- Also installing J-Band grism
  - HK available
  - H & K for 2010b





# 2010b Campaign Planning

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- Slit masks  
production
- Pre-allocation?
- Staffing/support



# Slit Mask Production for 2010b

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- 2010a masks produced & procurments arranged by SAO
  - Do not want this to remain the status quo
- *xfitmask* is maturing → demo
- Have responsive, competent vendor
- Issues:
  - CfA network access to use *xfitmask*
  - Procurement processing
  - Finding other mask suppliers
    - CTIO? LCO?



# Pre-Allocation of Observing Blocks

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# Staffing/Support in 2010b

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- ASz, JR & BMcL will spend ~1 month each support 2010a run ⇒ this is onerous
- However:
  - Ops software under intense development
  - Experience base is broadening
  - ASz & BMcL will supervise startup of MMIRS & Megacam, but expecting to off-load observing support

From B. McLeod  
Andy,

For now, I would like to avoid the weeks of Aug15-28 for starting a MMIRS run if possible.

We're in the process of planning our summer activities, and depending on how this pans out I may be able to return the week of Aug 15 to the mix, which would be week 1 of a bright run. (Full moon is Aug 24). I hope to know more in the next week or so.

Brian



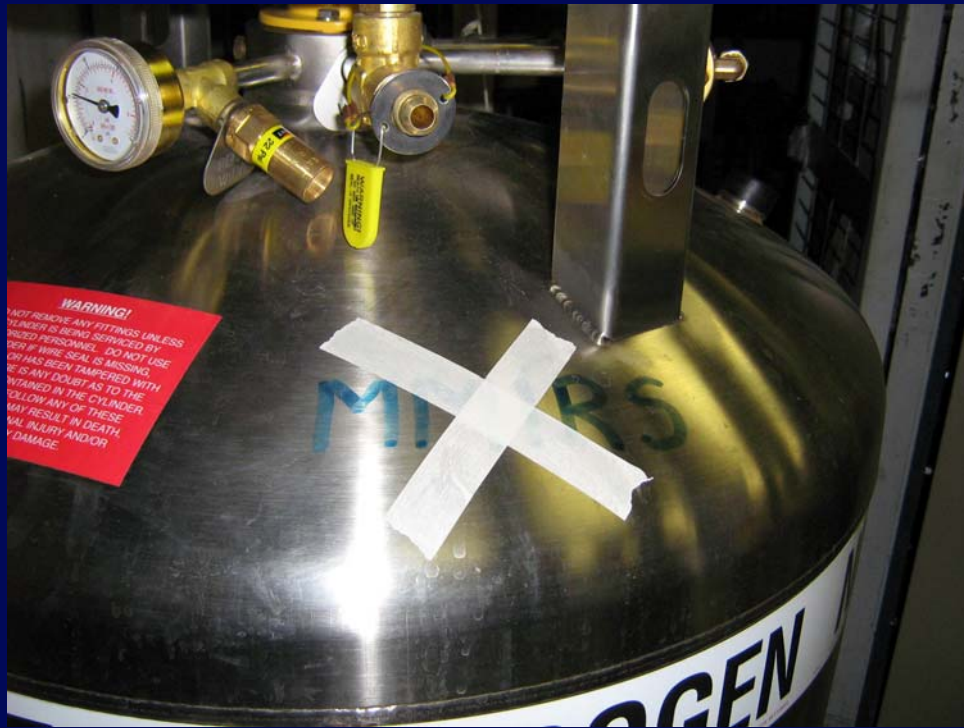
# 2011 Planning

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- How long will MMIRS & MegaCam stay at LCO?
  - Oversubscription for Magellan swelled by availability of f/5 instrumentation
  - Would like to provide uninterrupted access for continuing programs
  - Was some slight bruising during MMIRS shipping
  - Operations are becoming increasingly regularized
  - Moving to MMT (and back to LCO) requires significant software effort
  - Consider AO gating departure of MMIRS and Megacam
  - Will probably be at MMT 2+ years

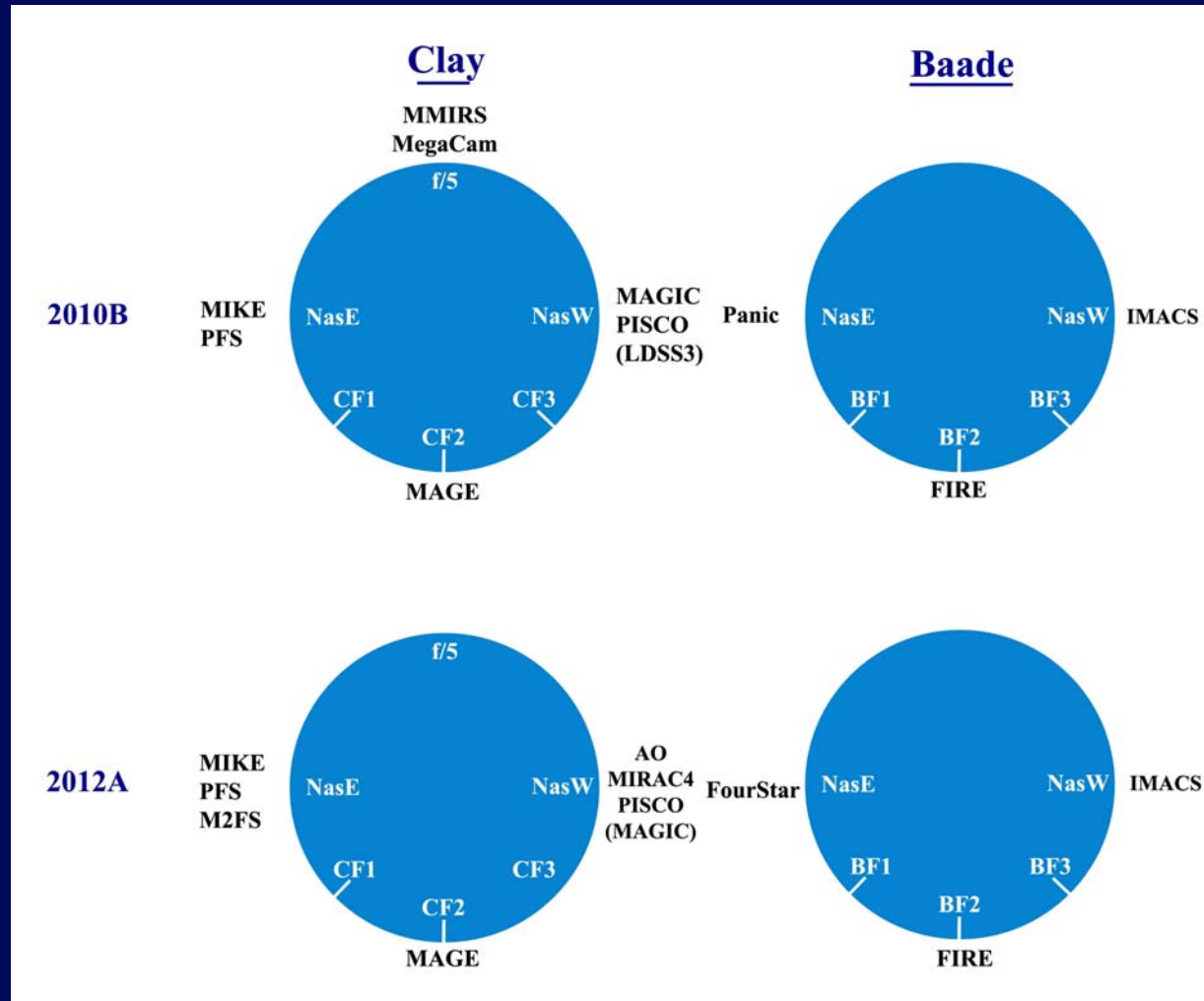


# A Declaration of War?





# Port Plan



What is our message to the Council?