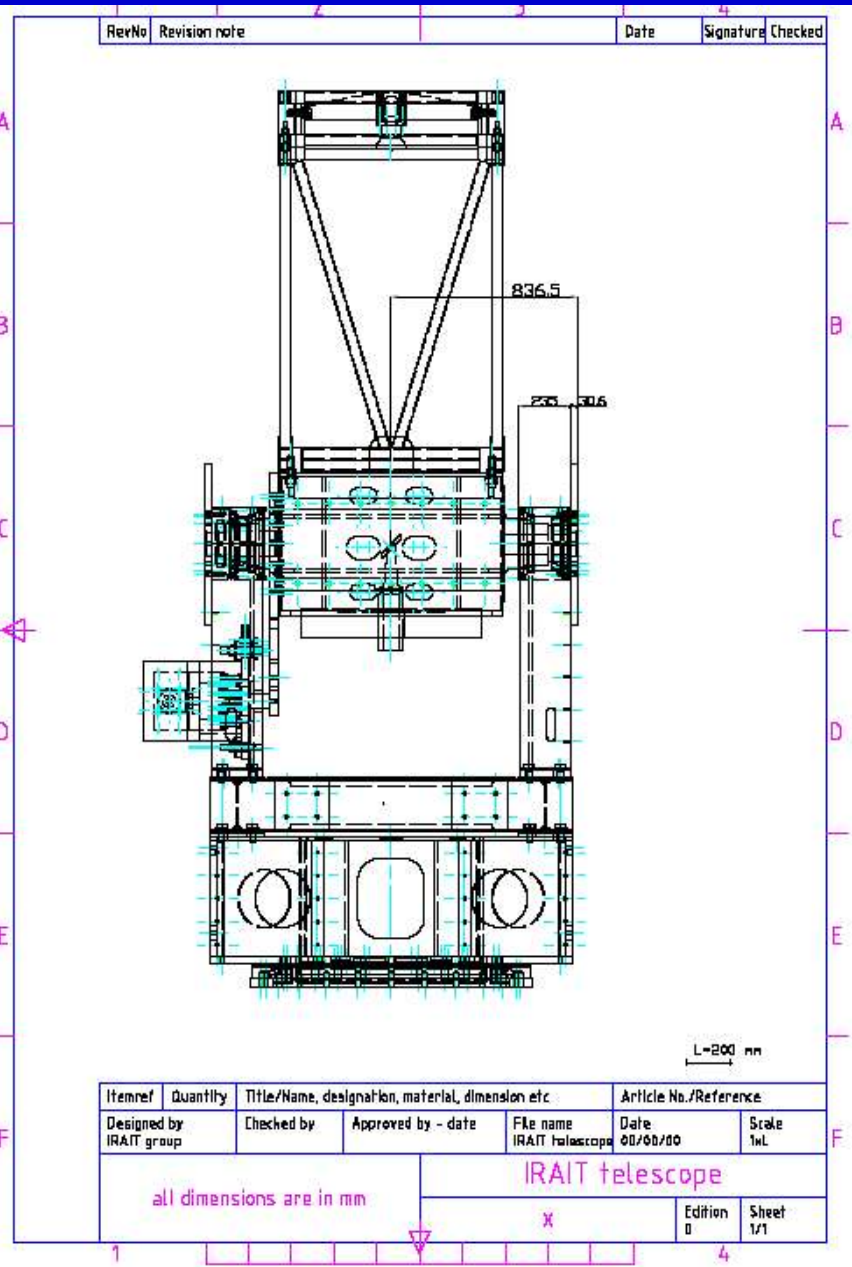


Altitude: 3300 m (osl)
Latitude: 75° 06.06 S
Longitude: 123° 20.74 E



IRAIT: International Robotic Antarctic Telescope



- 0.8 m, f/21.65 Cassegrain, 2 Nasmyth foci
- AMICA: Antarctic Multiwavelength Infrared Camera
 - Raytheon InSb 256 x 256 → 2 - 5.5 μm
 - DRS MF-128 SiAs 128 x 128 → 7 - 25 μm

M2 & M3 drivers

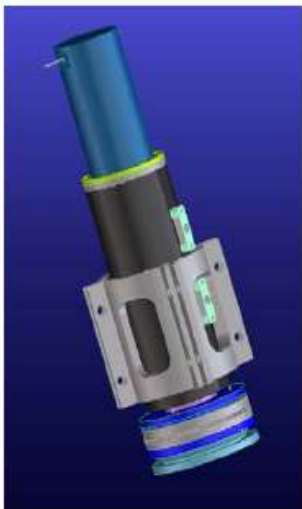


Figure 1: M2 Drive general view

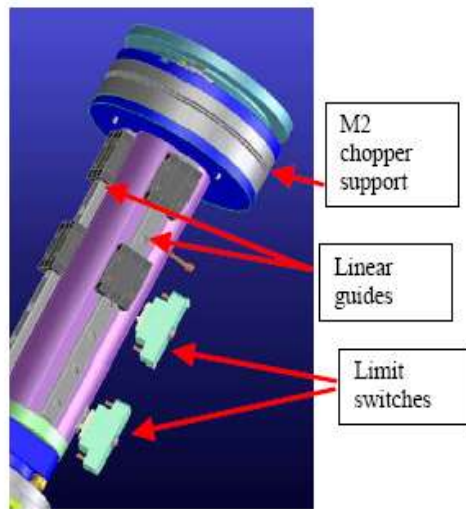


Figure 2: M2 Focuser without external cover

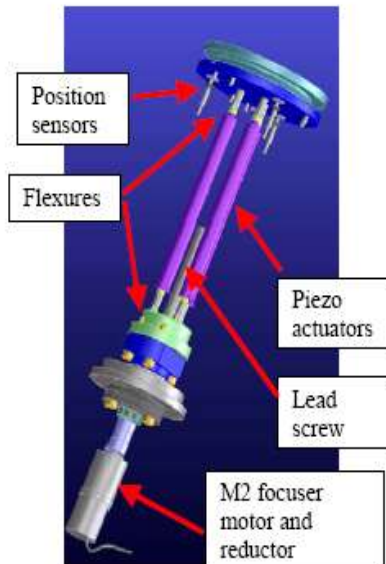


Figure 3: M2 Focuser without external cover and linear guides

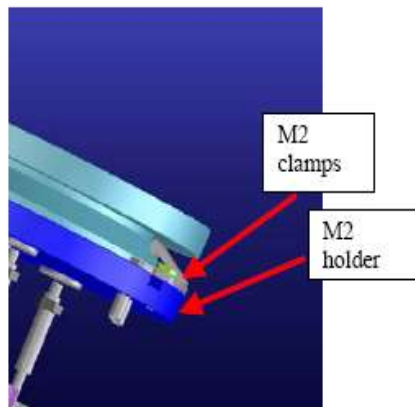


Figure 4: M2 mirror holder

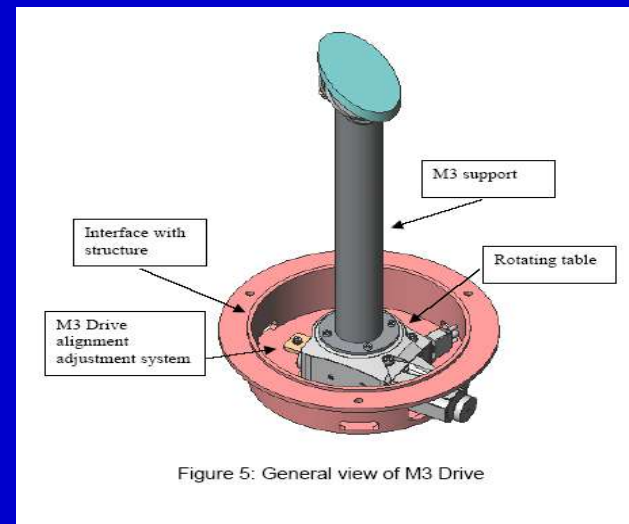


Figure 5: General view of M3 Drive

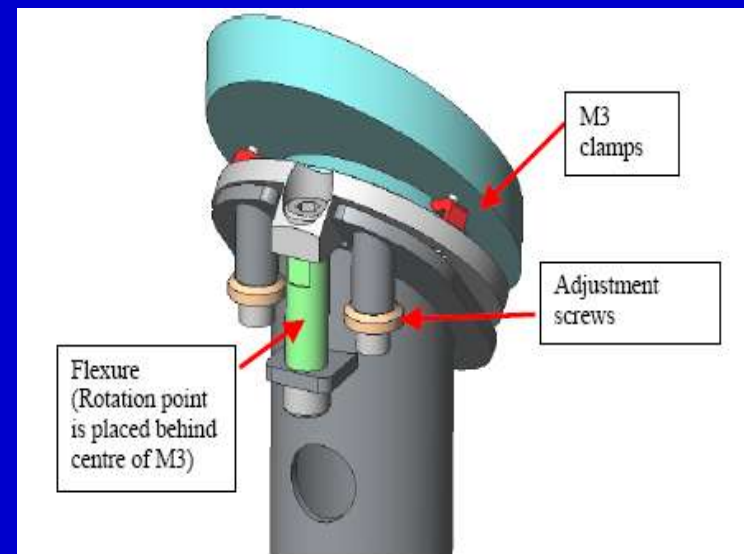
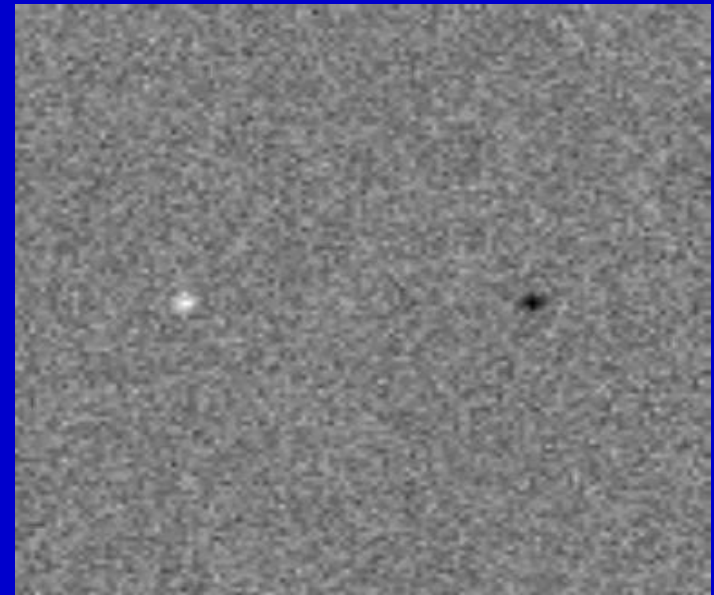
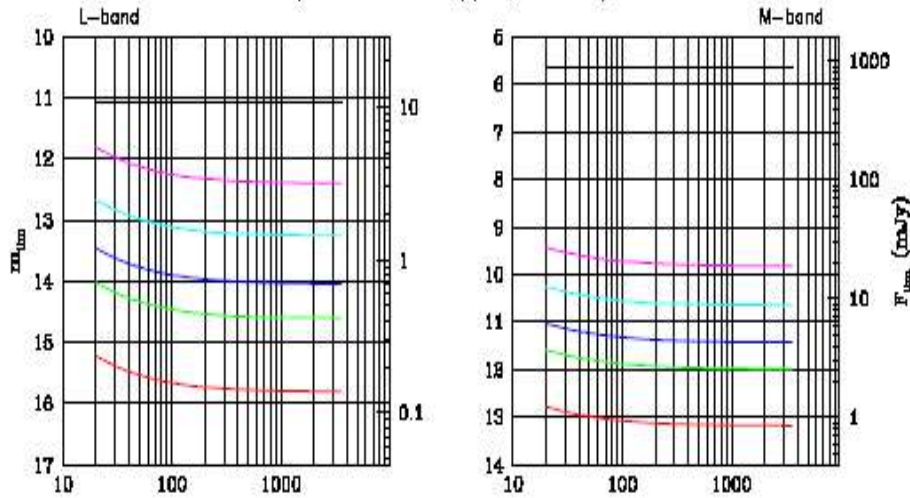


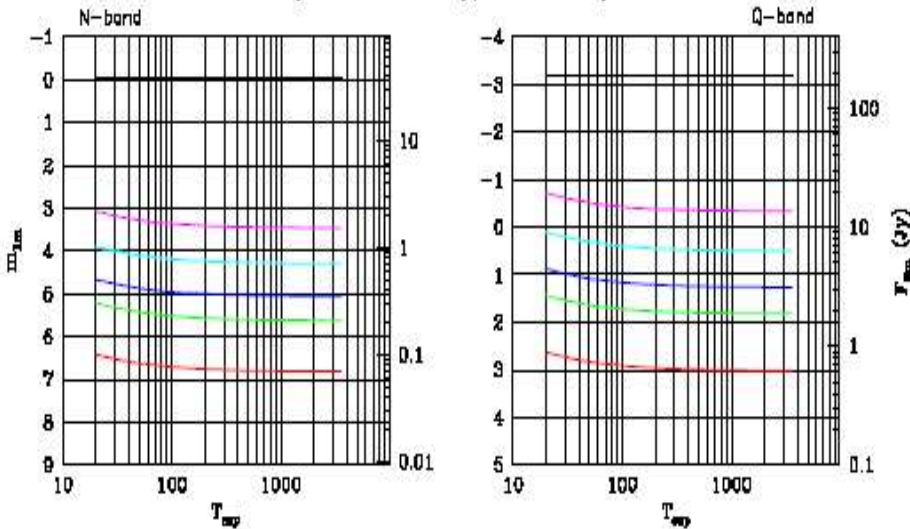
Figure 6: Detail of M3 Drive mirror holder

IRAIT + AMICA @ Dome-C
(scale: 0.538 arcsec/px ; e = 20%)



$\lambda \sim 21 \mu\text{m}$, exp = 20 s, flux = 10 Jy

IRAIT + AMICA @ Dome-C
(scale: 1.345 arcsec/px ; e = 20%)



S/N = 1, 3, 5, 10, 30, 50

Filter	Central Wavelength (micron)	Width (micron)
K	2.21	0.34
L	3.43	0.60
M	5.08	0.39
N1	8.79	0.98
N2	11.63	3.29
Q1	18.96	3.40
Q2	22.40	1.95

Schedule

- April 2006 Integration and Test of the telescope, Container, tent and electronics at University of Perugia.
- November 2006 delivery of IRAIT to Dumond d'Urville;
- November 2007 Start of the Integration, Test and Verification phase of IRAIT and AMICA Camera at Dome C
- March 2008 first IRAIT winter over operation

✓ Approval of key scientific programs for commissioning: end 2006



Agabi & Dicasillati Concordia (c) 2005