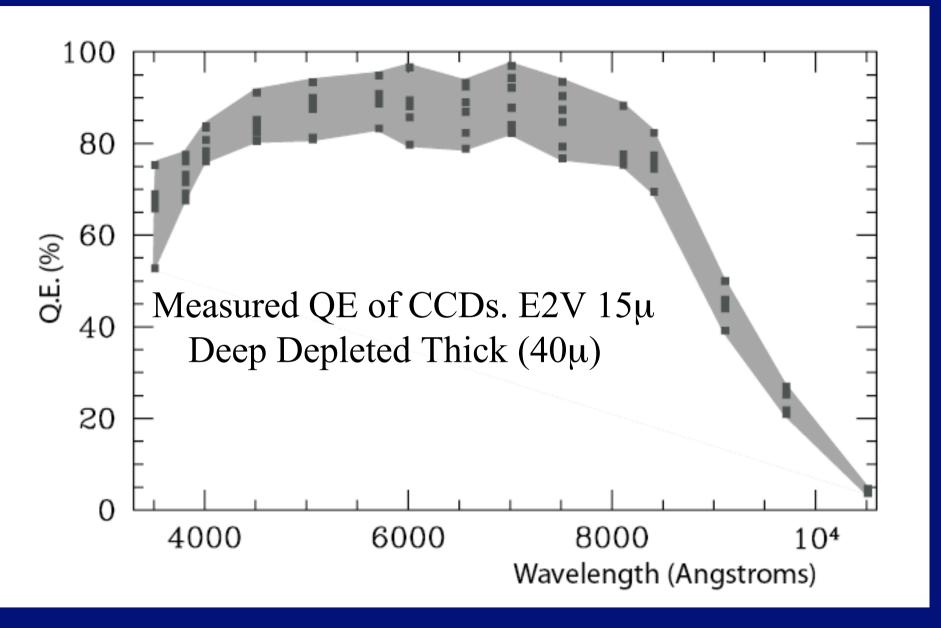
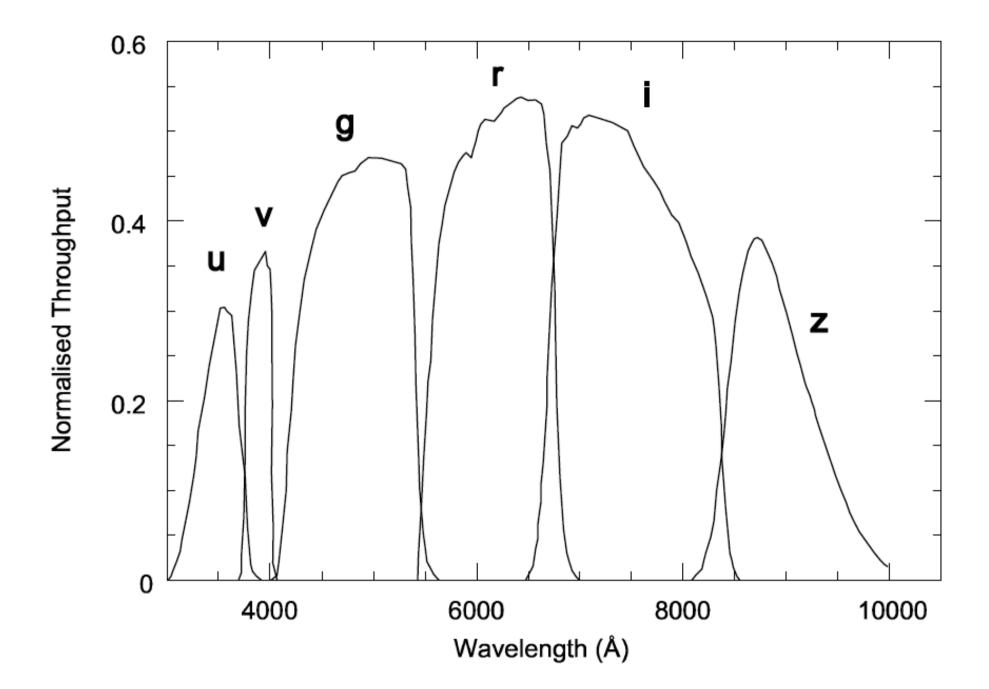


SkyMapper vital stats...

- 1.35m telescope with 5.2 sq degree imager (16k x 16k) covering 5.7 sq degrees
- 12s readout time and filter exchange
- All Southern Sky Survey (2pi steradians) 6 colours @ 6 epochs
- First light scheduled for Aug this year.





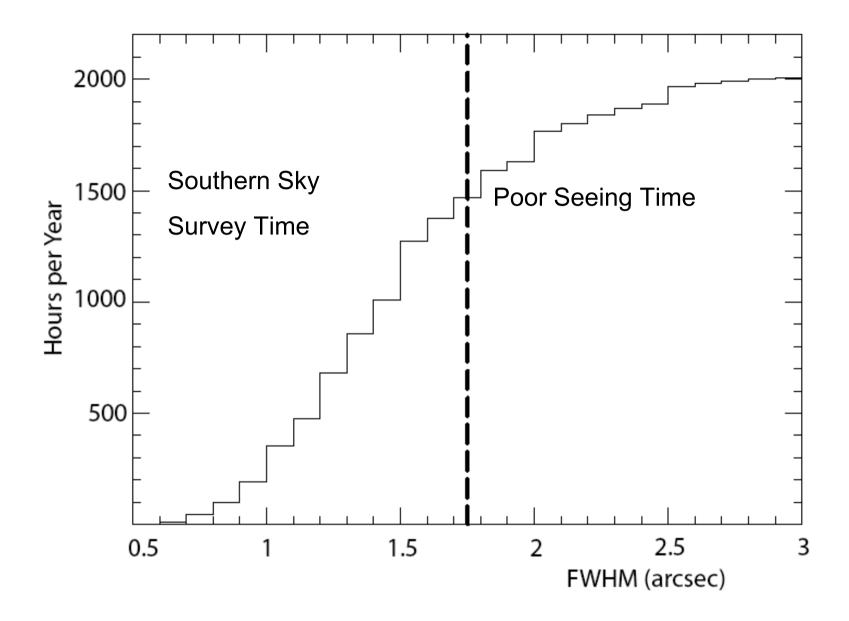


Figure 3: Seeing at Siding Spring derived from logs of the Anglo-Australian Telescope.

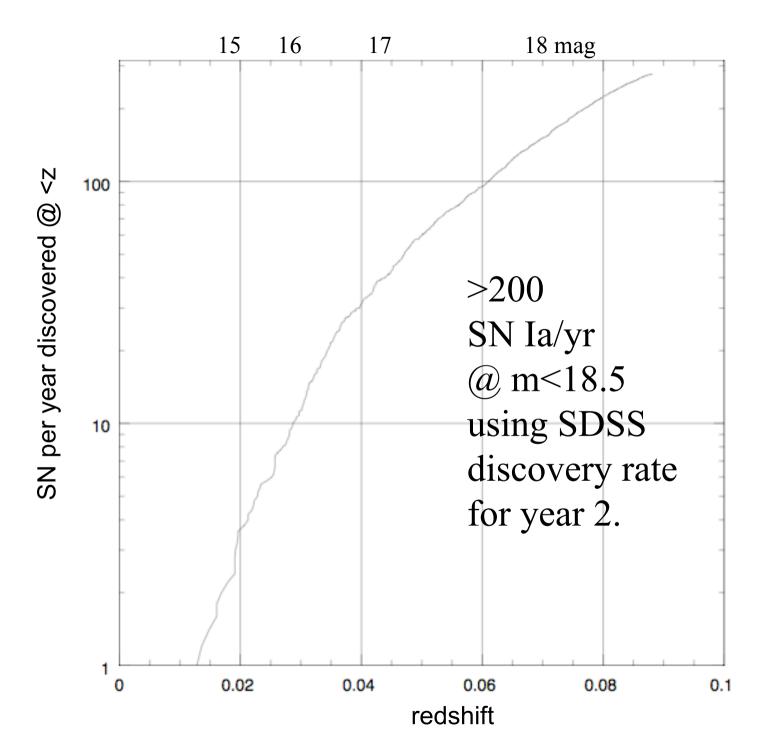
Sensitivity - SNR=10 Vega Mags

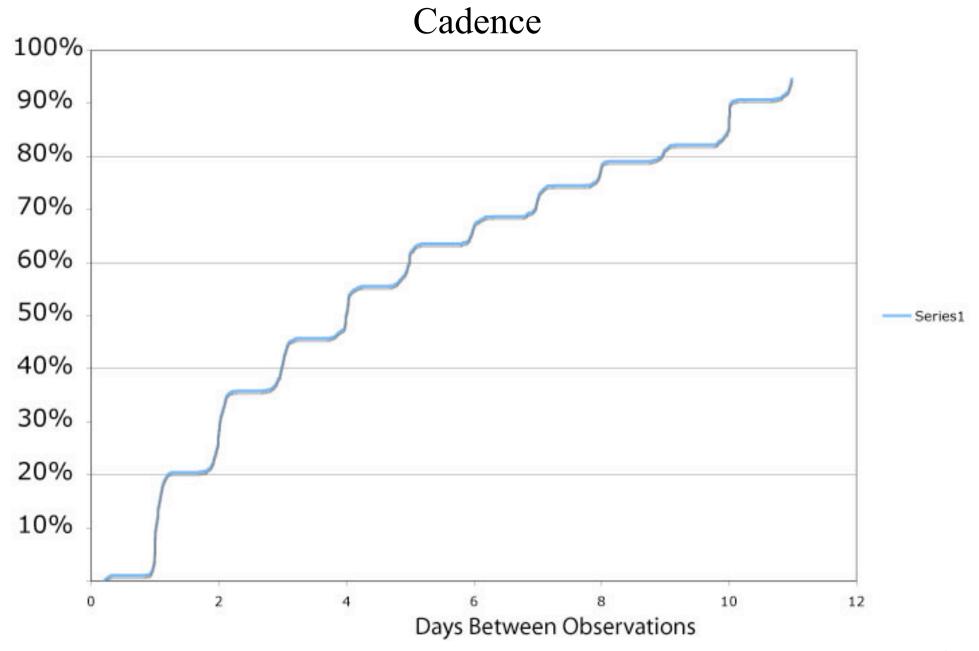
	U	V	g	r	į	Z
30s 2" D	18.6	19.1	20.4	19.7	18.8	18.1
30s 2" G	18.3	18.9	20.1	19.5	18.7	18.0
30s 2" B	17.1	18.1	19.0	18.9	18.3	17.7

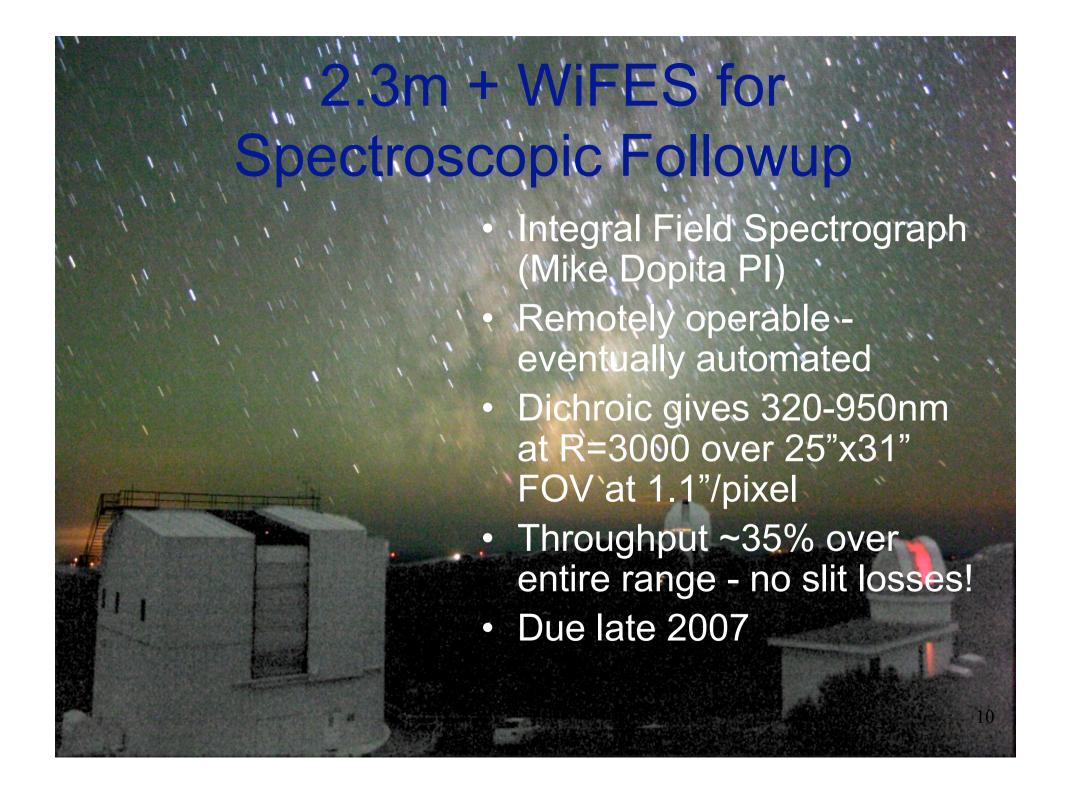
Survey

- Survey Speed: 2 minutes per field (v,g,i)
 - 1250 sq/degrees per 8hr night.
 - Use bad seeing time (worst 1/3rd + augment with 60hrs/year to fill in gaps) to do 1250 sq/degree continual SN search
 - Spectroscopic follow-up of anything brighter than 18.5
 - In collaboration with IN2P3 (Pain, Austier, Guy, Regnault,..) Data Reduction on ANU Super Computing Facility (1850 itanium II + Petabyte mass storage system)

Simulations using last 7 years of seeing data from AAT.







Science

- Hubble Diagram of 1000 SN la at cz<0.1
 - ability to choose unreddened objects
 - abundance and star formation info for all objects
 - complement to the large samples of z>0.1 objects
 - population vs. environment.
- ~300 Core Collapse objects
 - unbeamed GRBs
 - Nucleosynthetic output of SN II
 - abundance and star formation info for CC SN.
- Largest sample of wierdos...

Data Release

- Data taken and transferred via Gigabit Link to ANU and reduced within 24hours.
- New objects flagged, but not id'd as SN until second epoch (unless bright).
 - id'd objects released to public
- New objects observed using 2.3m
 - spectral id's made public.
- light curves and spectra will remain proprietary, but we are open to collaboration.

SkyMapper Progress

- All major components of telescope and imager in place.
- Telescope undergoing final integration and testing as EOS- Tucson
- Dome being constructed at Siding Spring finished ~end of June
- Telescope to be shipped and tested on site (first light) - late July/August
- Commissioning August/Sept by ANU
- integration of ANU-16kx16k imager Sep/Oct/Nov



