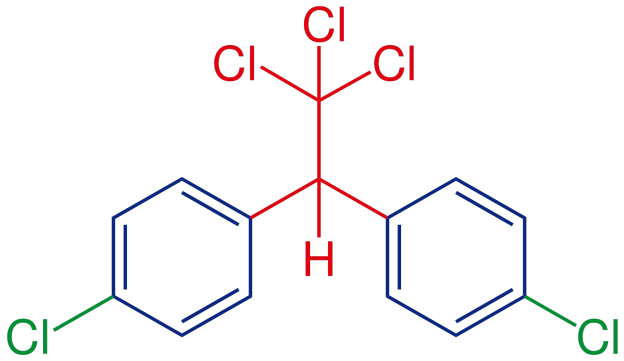


Director's Discretionary Time Discussion

Erick Young

SOFIA Science Center

Science Utilization Policy

- Discretionary time will be allocated by the Science Center Director. Data obtained during Director's discretionary time will not be subject to the proprietary period and will be made public immediately. Discretionary Time will not be peer reviewed by the annual allocation peer review committee and shall consist of the following types of observations:
  - i. Targets of opportunity not allocated by the annual peer review. These could be allocated by a special peer review set up by the Director.
  - ii. Special projects that the Director feels are important for the good of the observatory, such as time that allows effective and efficient use of scheduling of the telescope.
  - iii. Observations of potentially high scientific impact but which were considered too risky to propose through the TAC process.
- The allocation of Directors Discretionary time will be reviewed annually as part of the activities of the SOFIA Science Advisory Council that reports to both NASA and the science mission contractor.

DDT Allocation

- SOFIA Science Utilization Policy allocates 7% of Research Hours to Director's Discretionary Time:

	Cycle 1	Cycle 2	Cycle 3
Scheduled Research Hours	181.3	207.5	453.6
Director's Time Allocation	**12.7**	**14.5**	**31.8**

Director's Time Distributions

- Awarded Proposals to use Director's Discretionary Time

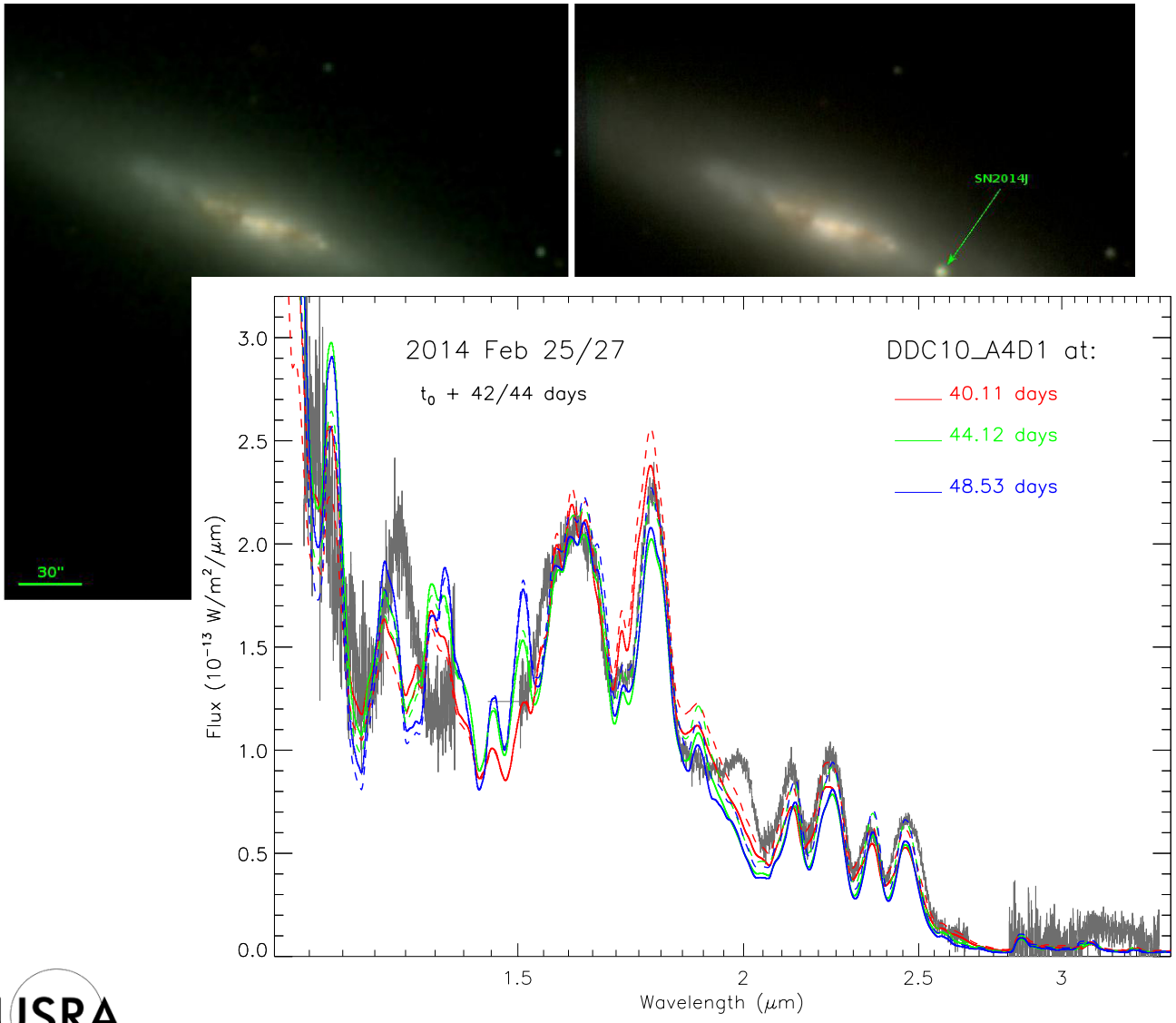
Program_ID	Title	PI	Time (hr)	Instrument	Target
75_0001	Observations of a Bright Type 1a Supernova in M82	Hamilton, Ryan	4.00	FLITECAM	SN2014J
75_0002	Probing The Ejecta And Surroundings of SN 2014J In M82	Gehrz, Robert D.	2.00	FLITECAM	SN 2014J(PSN J09554214+6940260)
75_0003	FORCAST spectroscopy of SN2014J	Vacca, William D.	4.00	FORCAST	SN 2014J (PSN J09554214+6940260)
75_0013	Catching the outbursting new FU Orionis object 2MASS J06593158-0405277 on the rise	Eisloeffel, Jochen	0.75	FORCAST	2MASS J06593158-0405277
75_0014	Catching the outbursting new FU Orionis object 2MASS J06593158-0405277 on the rise	Eislöffel, Jochen	0.75	FIFI-LS	2MASS J06593158-0405277

- Compensation time for the GREAT Team
  - GREAT is a MPIfR-funded instrument
  - Compensation is for support of US General Investigators
  - GREAT is given 1 hour of DDT for every 6 hours of US GI time

Uses of Director's Time to Date

	Cycle 1	Cycle 2	Cycle 3
Scheduled Research Hours	181.3	207.5	453.6
Director's Time Allocation	**12.7**	**14.5**	**31.8**
GREAT US time scheduled	39.3	21.8	49.8
Directors Time Proposals	0.0	10.0	1.5
GREAT Compensation Time	6.6	3.6	8.3
Total Directors Time Used	**6.6**	**13.6**	**9.8**
Unused DD Time	6.1	0.9	22.0

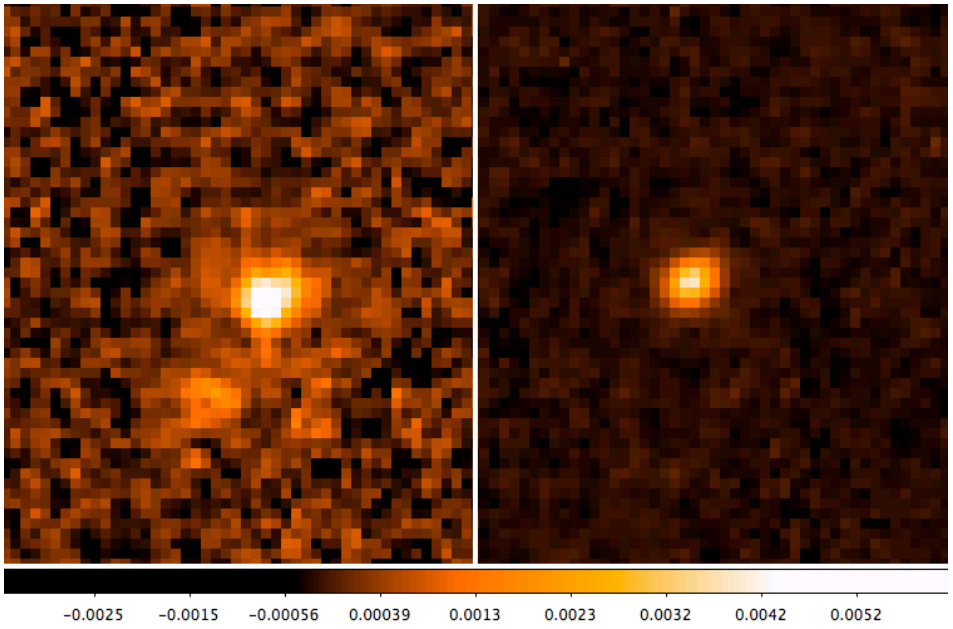
SOFIA Observes Supernova 2014J



Vacca et al. 2015

Science Highlight: Far IR Detection of an Outbursting FU Ori Object

- Accretion during the formative stages of low-mass star evolution is an important component of the total luminosity.
- This accretion is known to be episodic with long periods of quiet between events
- Archetype of the most dramatic type of outburst in FU Ori which increased in in brightness by 6 magnitudes in 1936 and has remained bright since then.
- 2MASS J06593158-0405277 is a recently discovered member of this class and gives an opportunity to make IR measurements of this rare event.
- DDT proposal was submitted by Jochen Eisloffel (Thuringer Landessternwarte Tautenburg, Germany) and accepted.
- FORCAST and FIFI-LS used to make photometric measurements



FORCAST observations of 2MASS J06593158-0405277 at 37 μm (left) and 11 μm (right). This is a rare FU Ori type young star that has suddenly brightened. Corresponding far-IR observations with FIFI-LS were also taken in March.

DDT Program of Jochen Eisloffel