

Historical Celebration – 1978 – 1987 – 60 yrs UV Astronomy

1978

1979

1980

1981

1982

1983

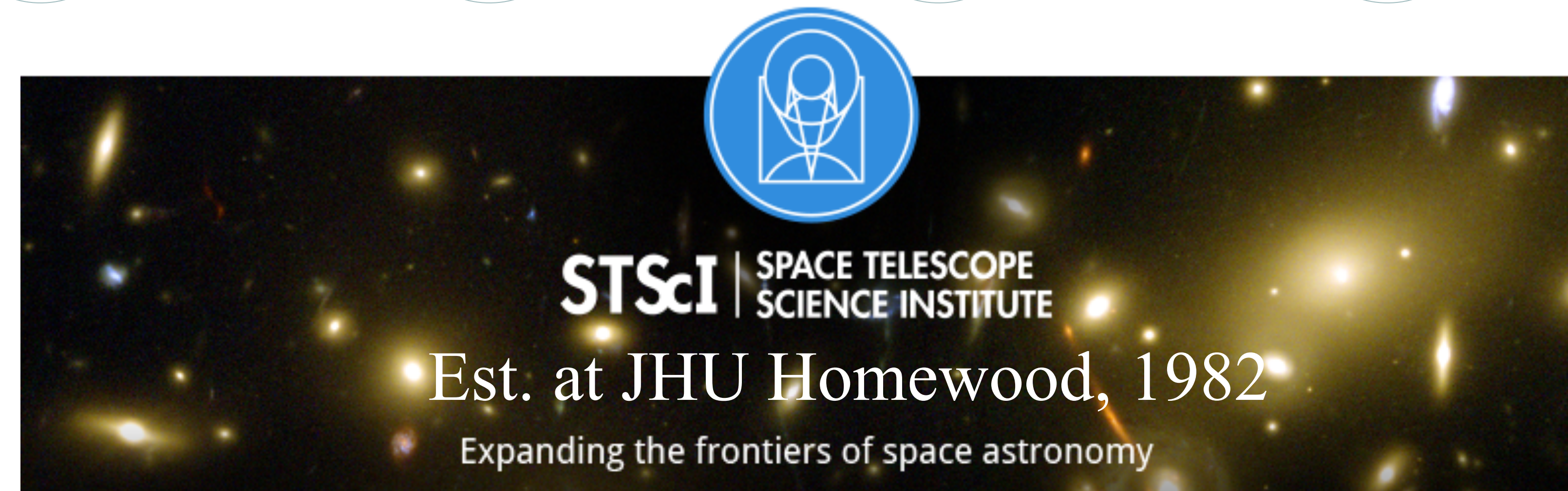
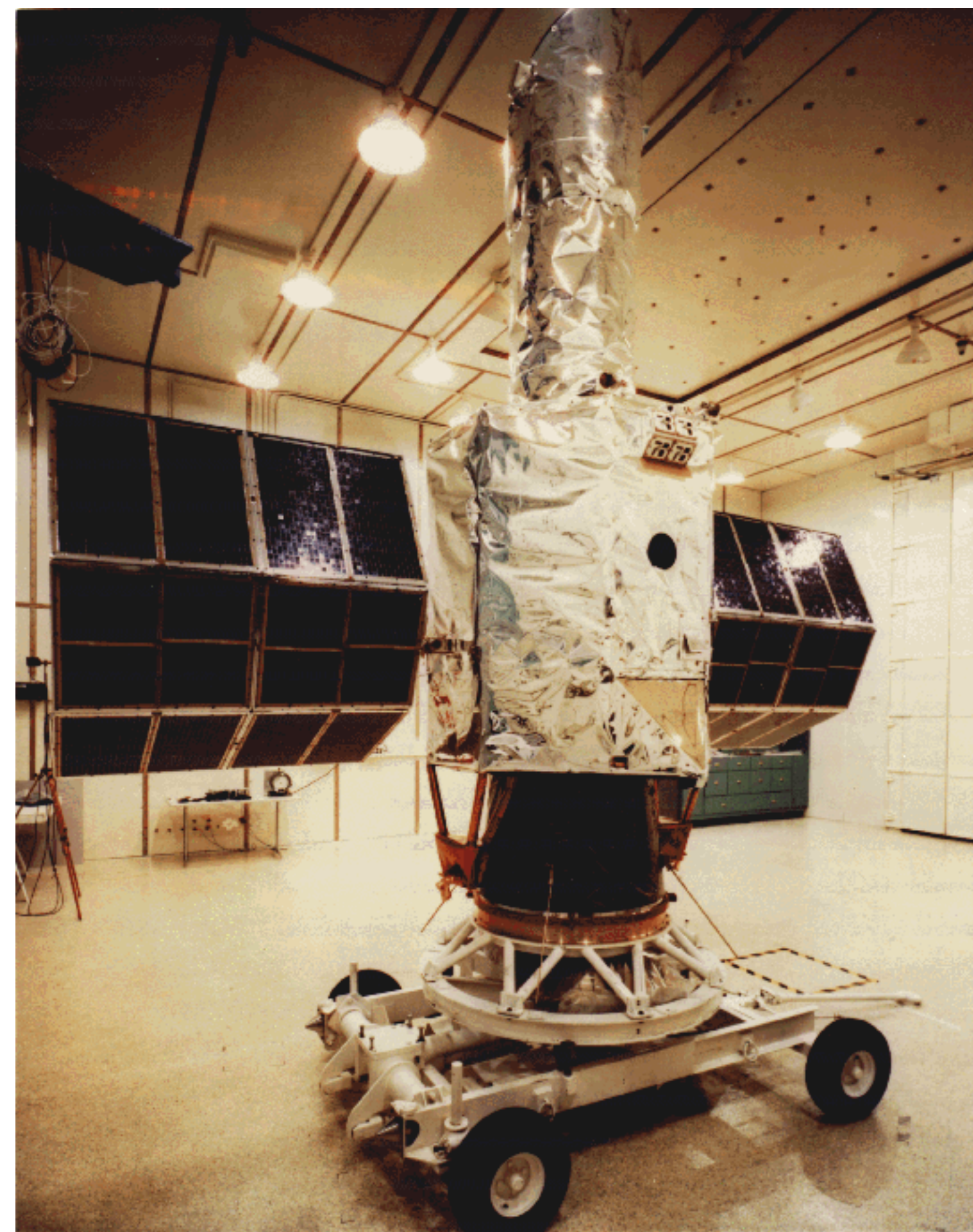
1984

1985

1986

1987

IUE (1978 - 1996)



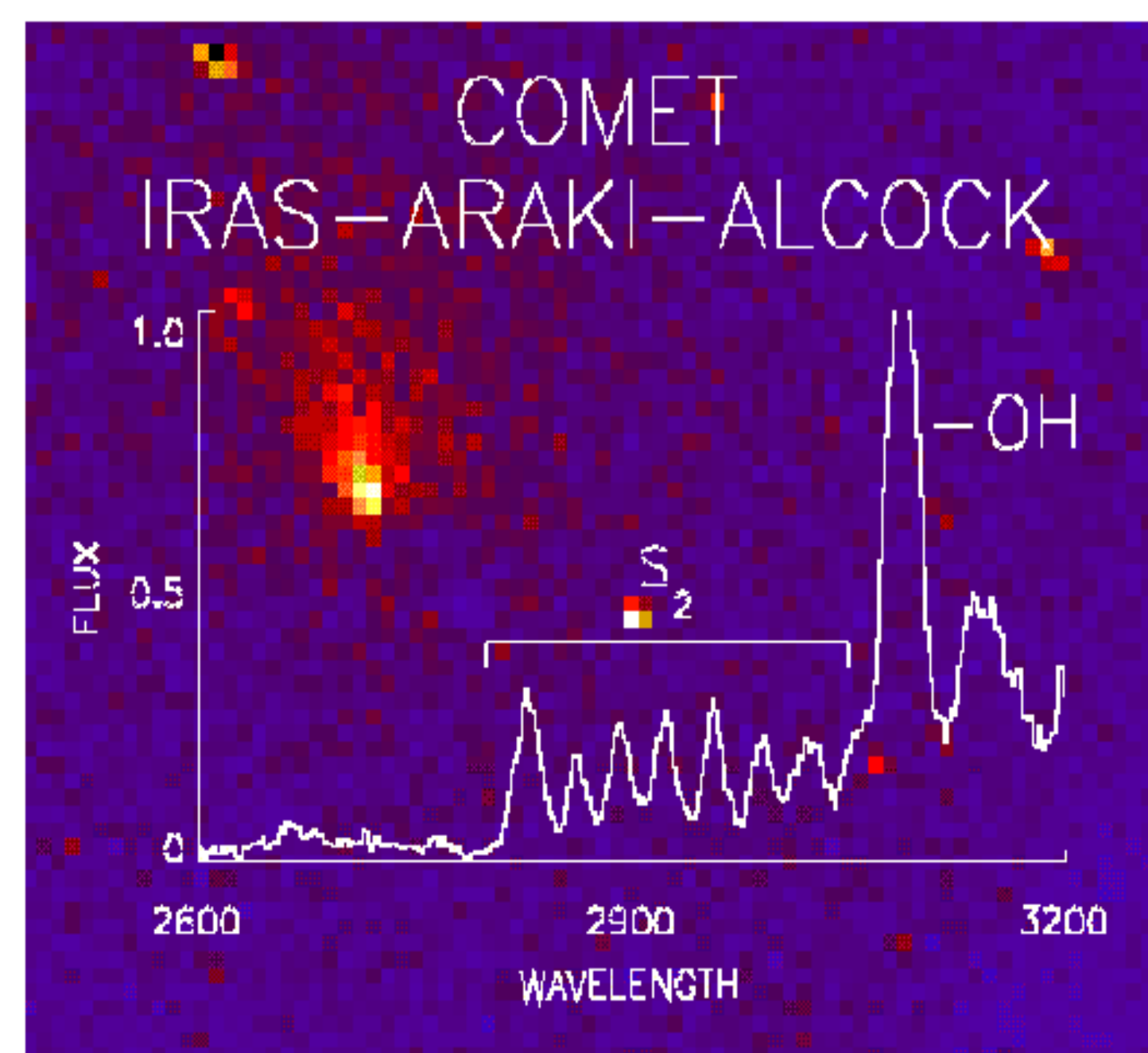
Challenger (Jan. 28 1986):
(Hubble and Astro Observatory space shuttle launches delayed from early 1986 to 1990.)



Spartan-203 (Halley) on *Challenger* was lost



IUE Control Center, NASA/GSFC



Hubble (above and left) and Astro Observatory (below) developed, tested, and prepared for launch in 1986. But...



JHU Halley Sounding Rocket Mission Mounted one month later 26 Feb 1986 (21.093UG) and again on 13 March 21.095UG), supporting Giotto flyby

Rocket ultraviolet spectroscopy of comet Halley and abundance of carbon monoxide and carbon

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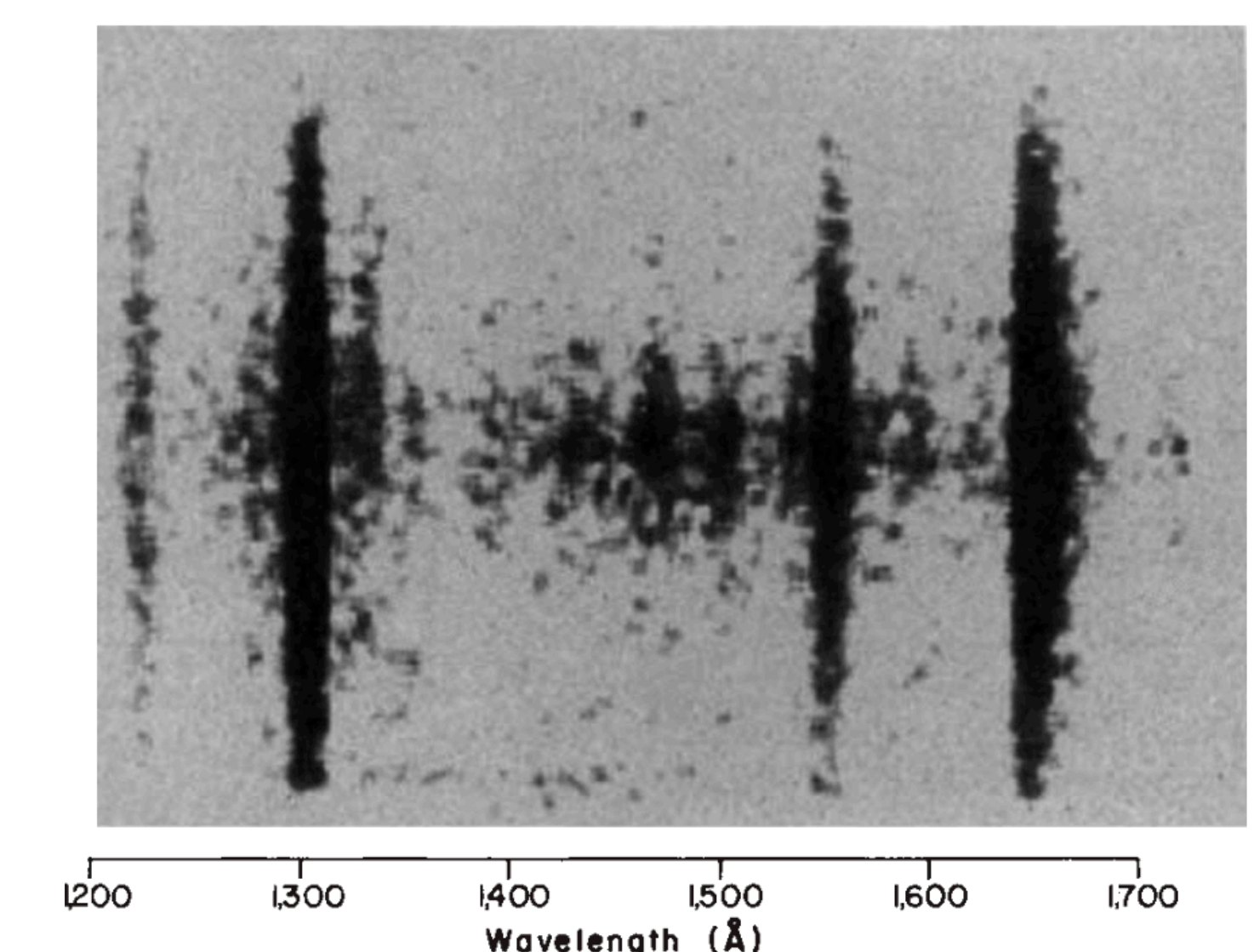
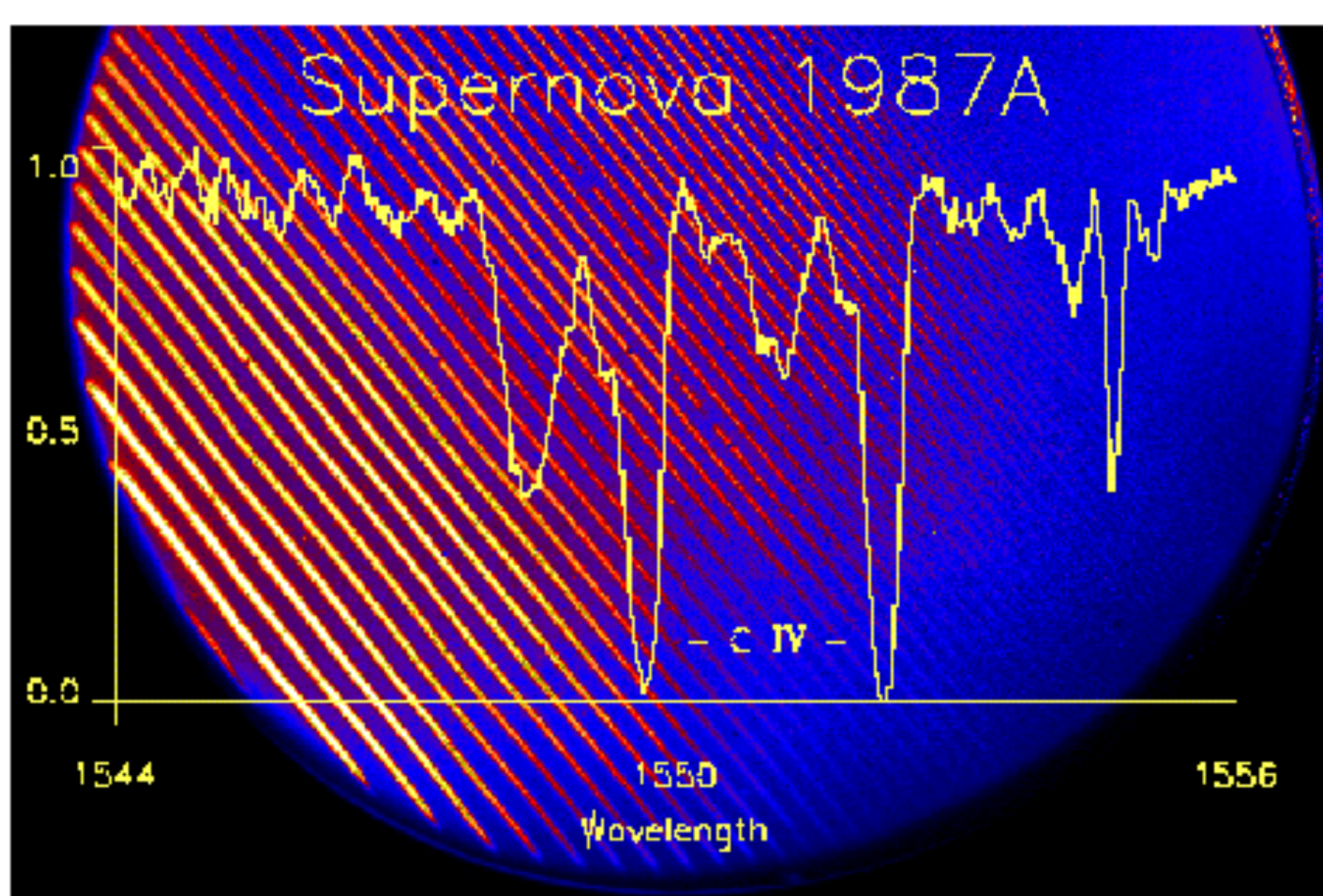
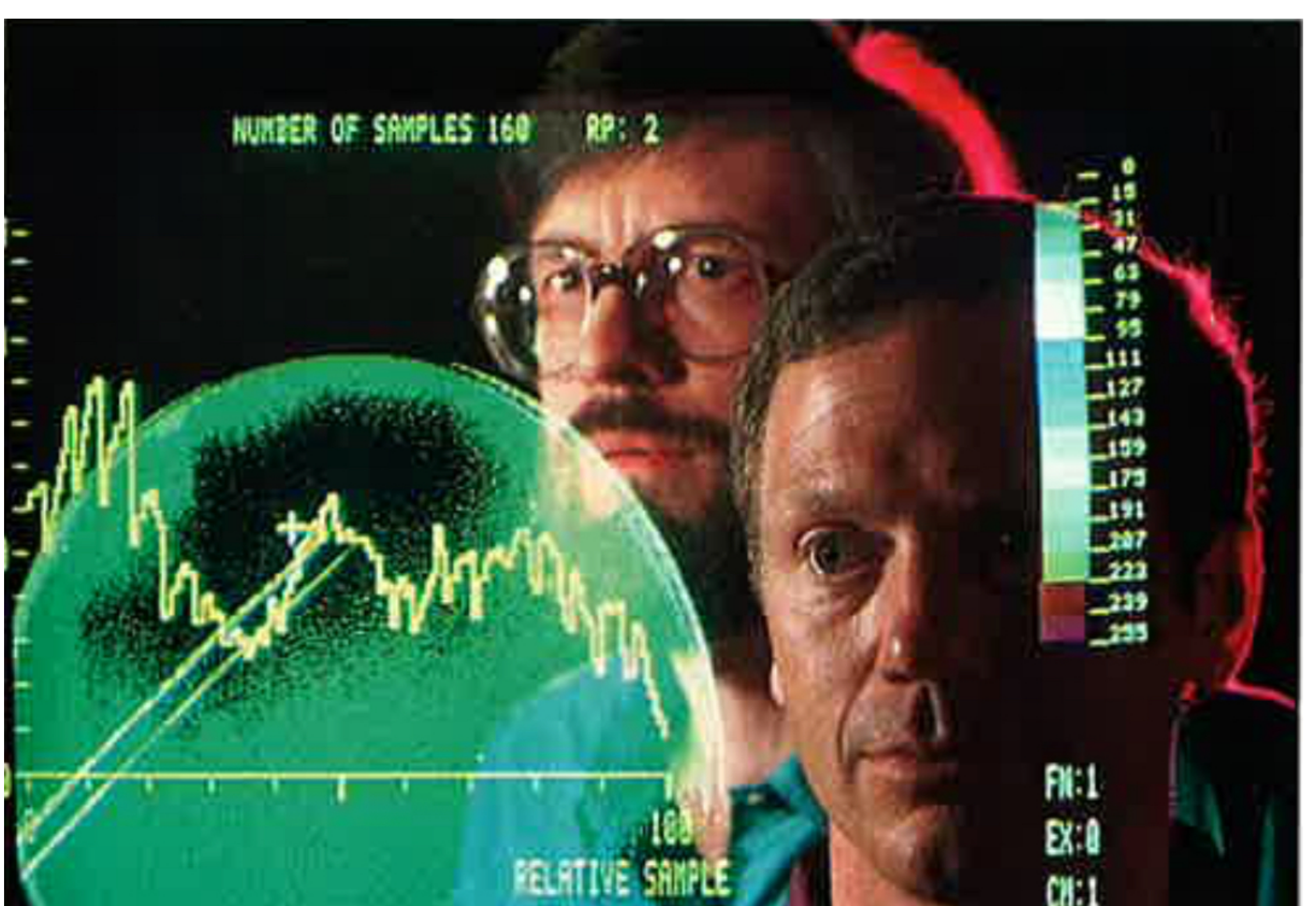


Fig. 1 A photographic representation of the raw counts from the spectrograph on NASA 21.093UG is shown for a 72-s exposure of comet Halley centred in the entrance slit of the spectrograph. The horizontal axis is the wavelength dispersion from ~1,150 to 1,800 Å, and the vertical axis is along the 7.7 arc min slit with the upward direction pointing down. The three brightest lines are O I λ 1,304, C I λ 1,561, and C I λ 1,657. H I λ 1,216 appears as a weak feature due to the heavy attenuation below 1,230 Å by a CaF₂ filter in front of the entrance slit.



HUT, UIT, and WUPPE



The crew of *Challenger*, STS-51-L