

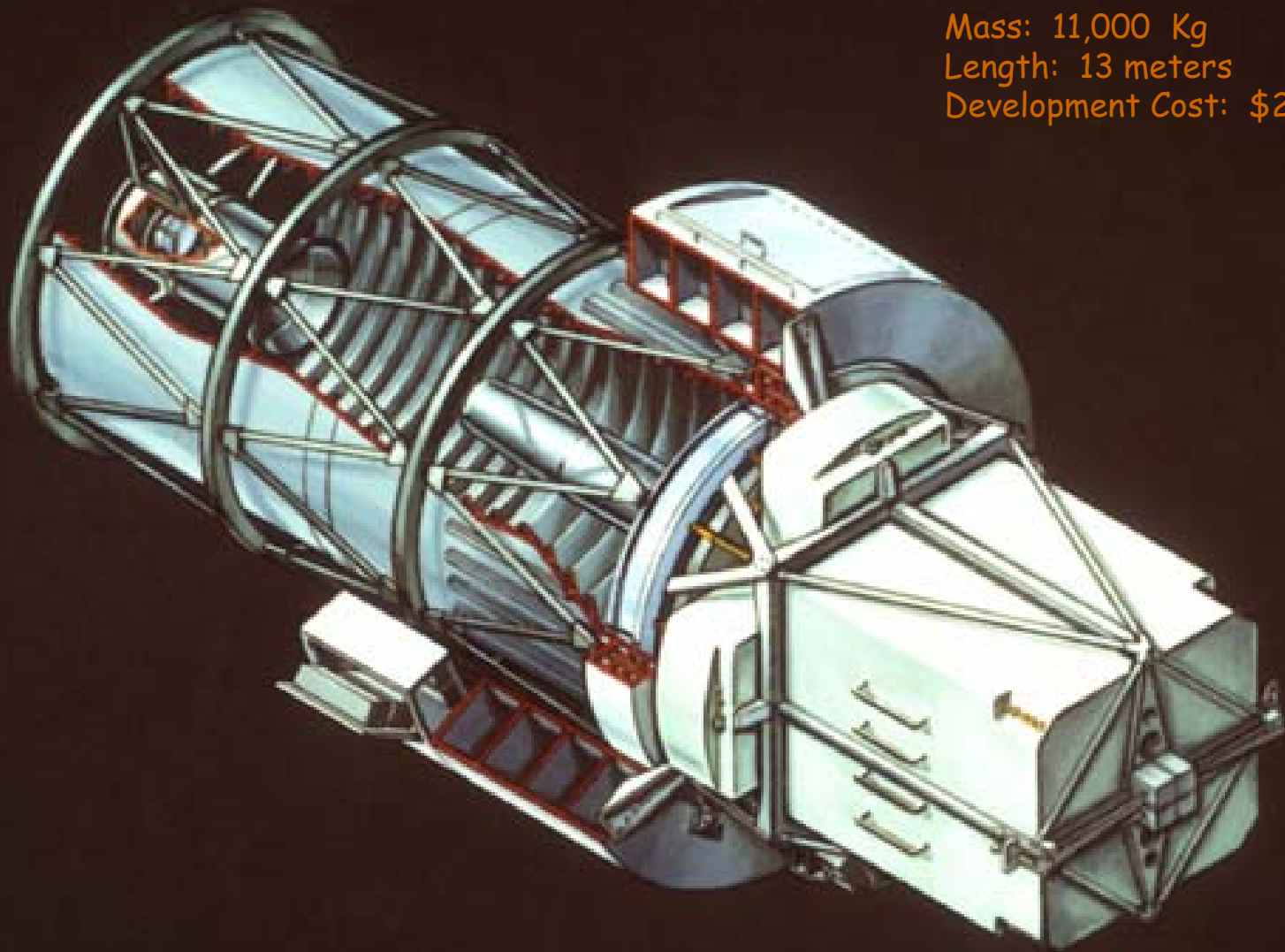
# Hubble Space Telescope:

## I. Servicing Missions & Images

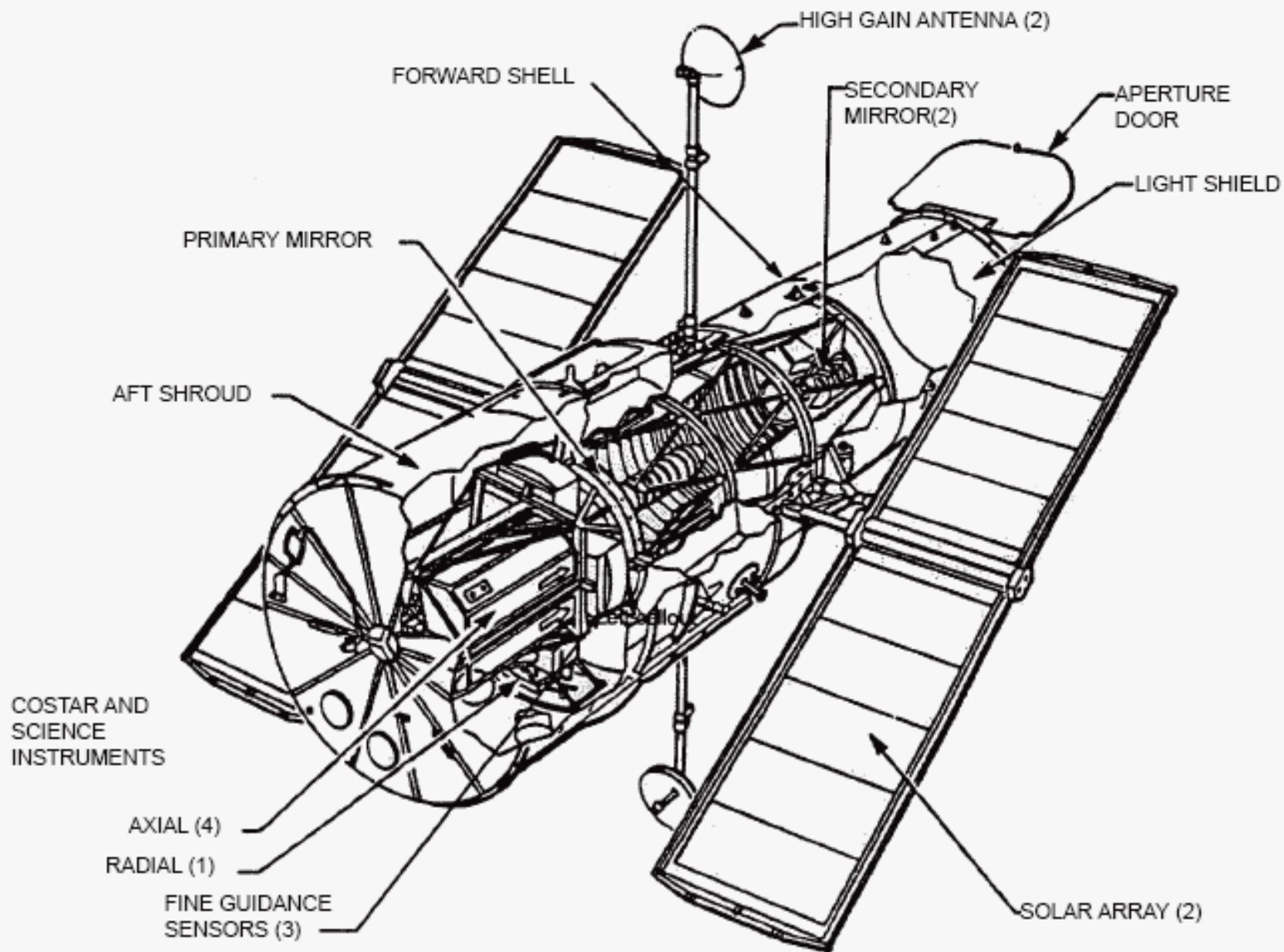


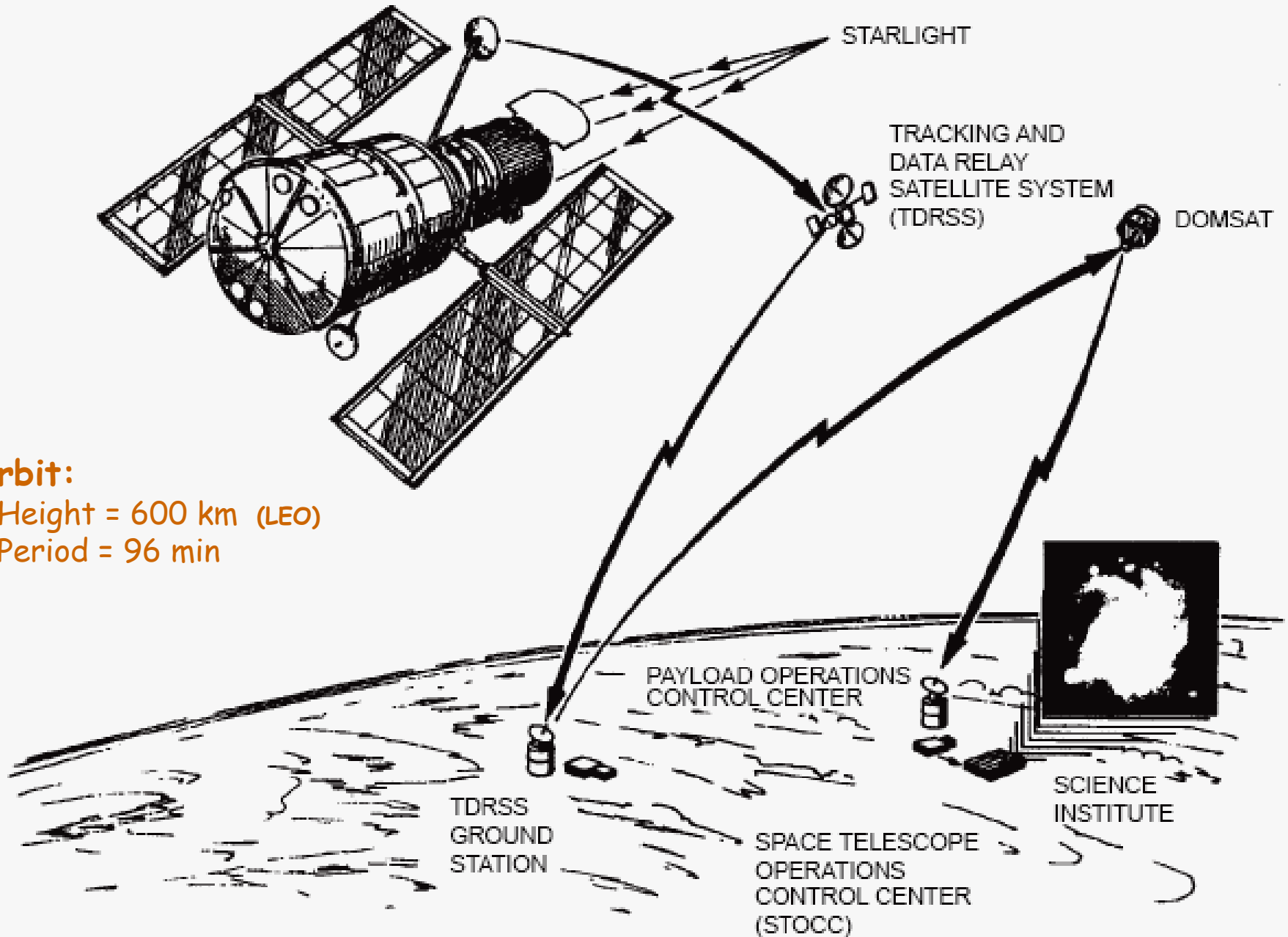
Robert Williams  
Space Telescope Science Institute

Mirror: 2.4m diameter  
Mass: 11,000 Kg  
Length: 13 meters  
Development Cost: \$2.5 billion









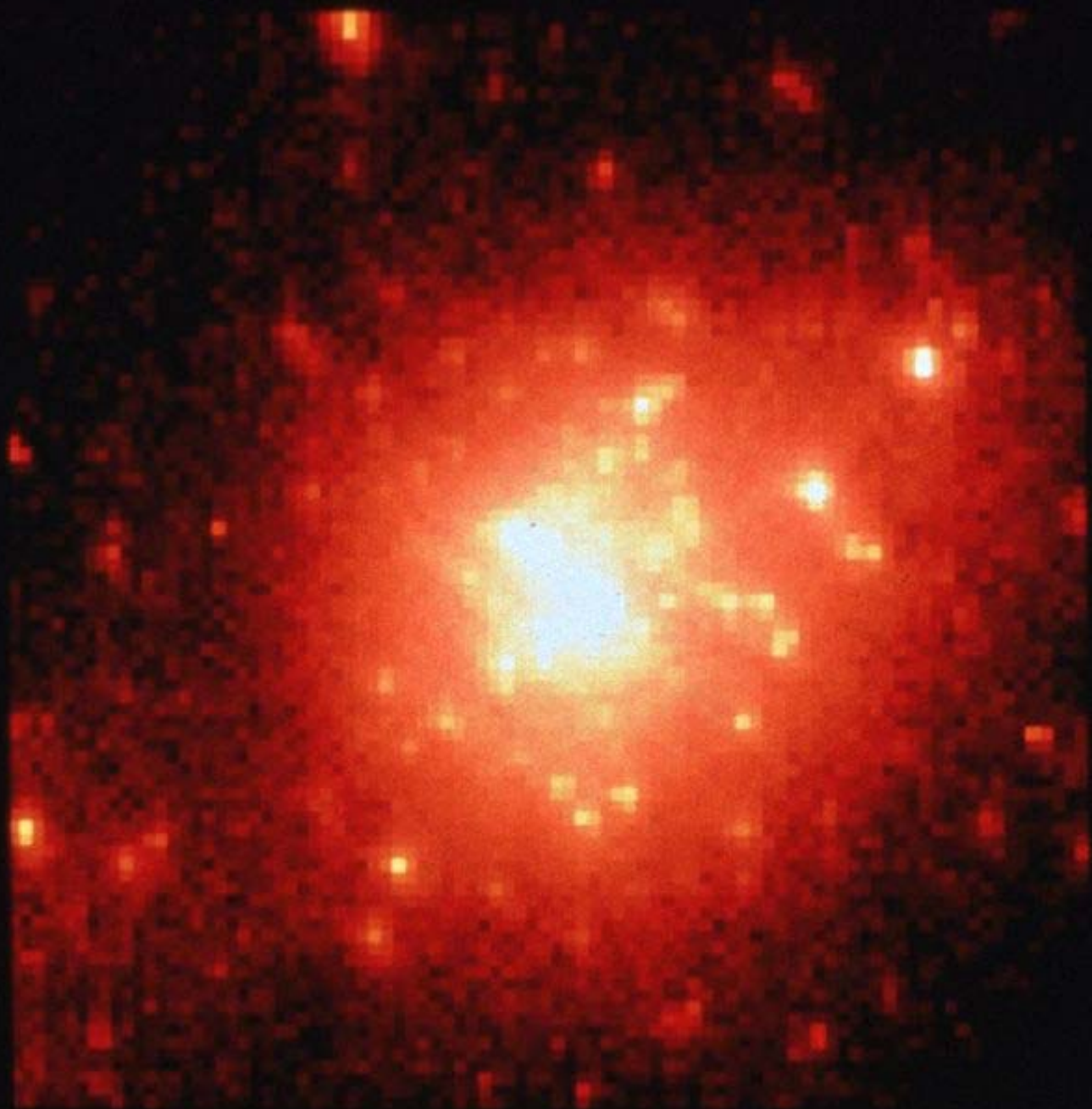
**Orbit:**

Height = 600 km (LEO)

Period = 96 min

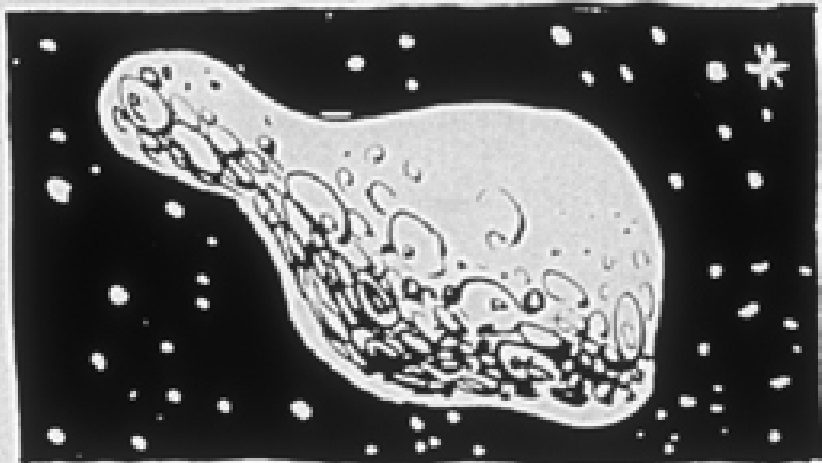
April 1990







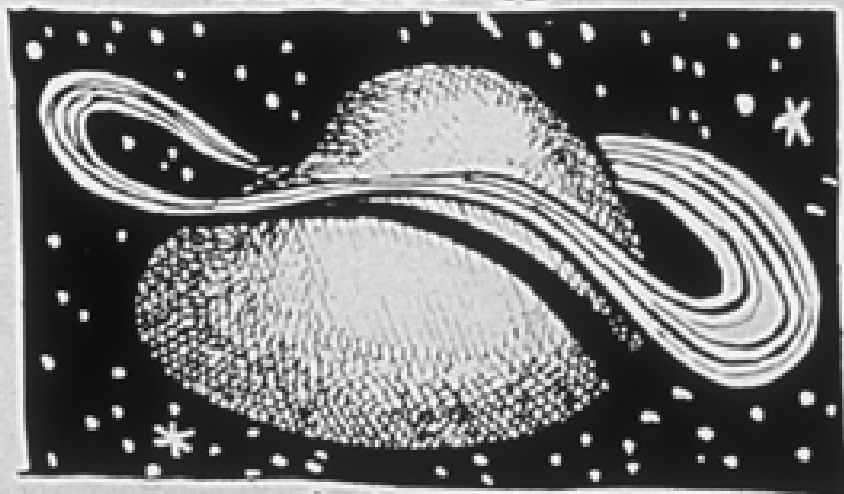
# First photos from the Hubble



The moon



Jupiter



Saturn

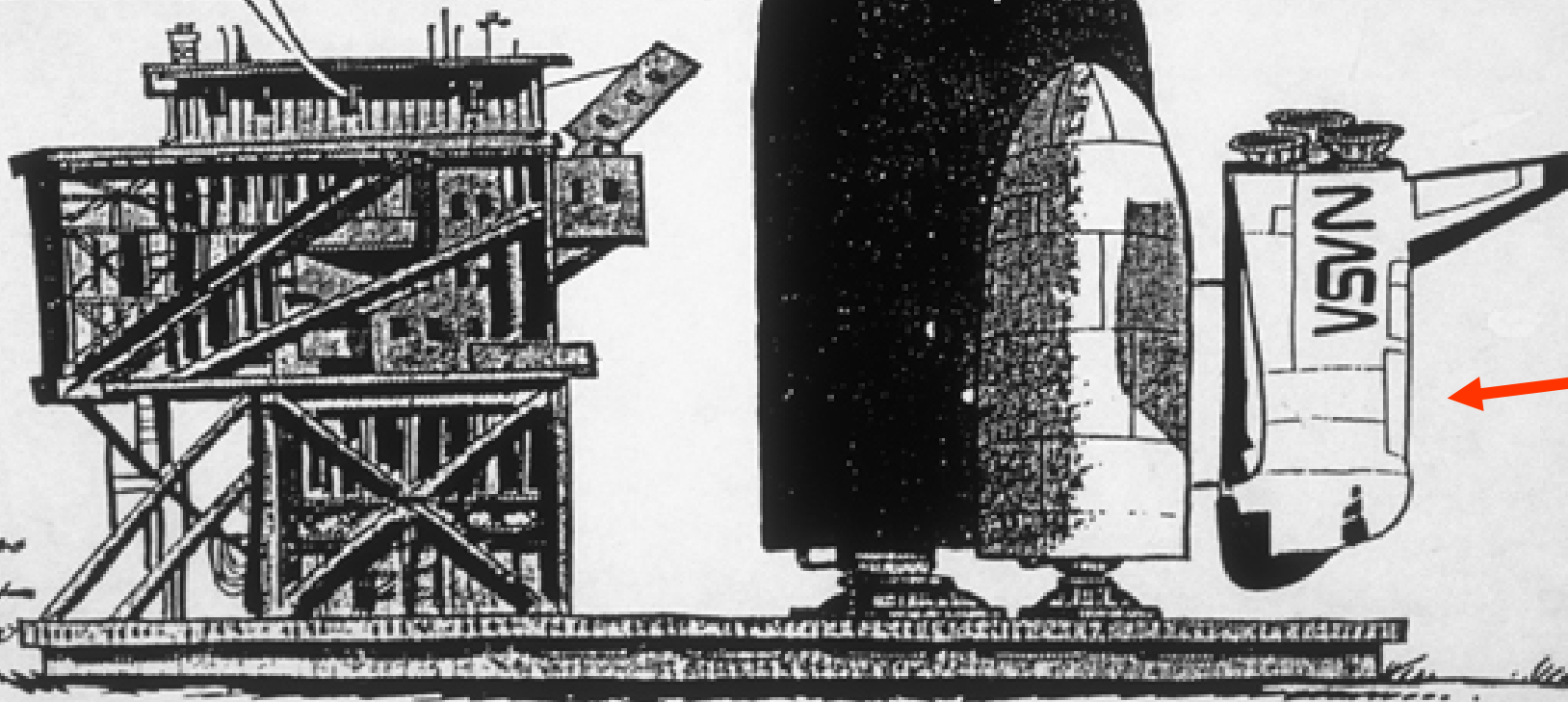


Taxpayers

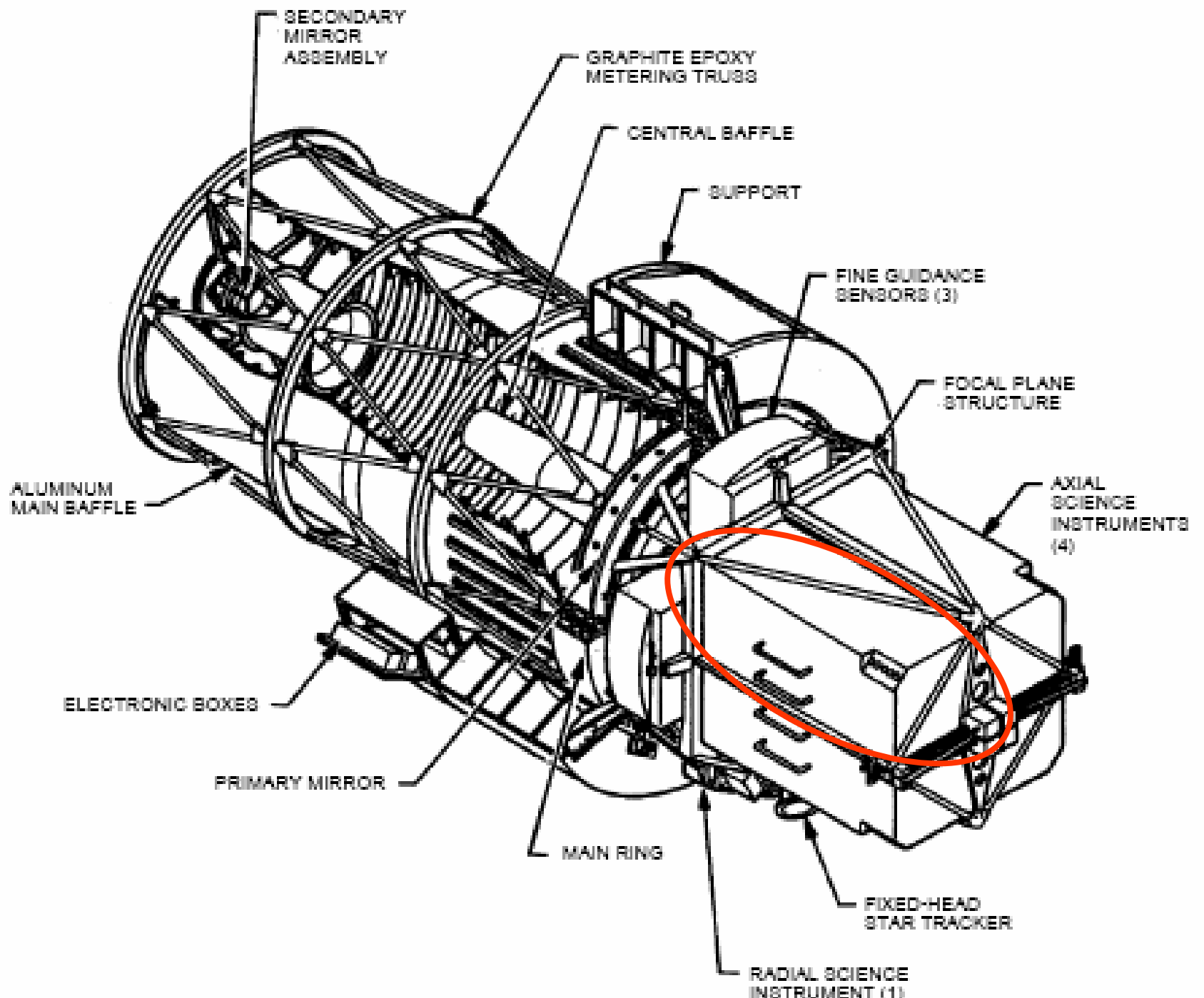
Reprinted by permission of NEA, Inc.

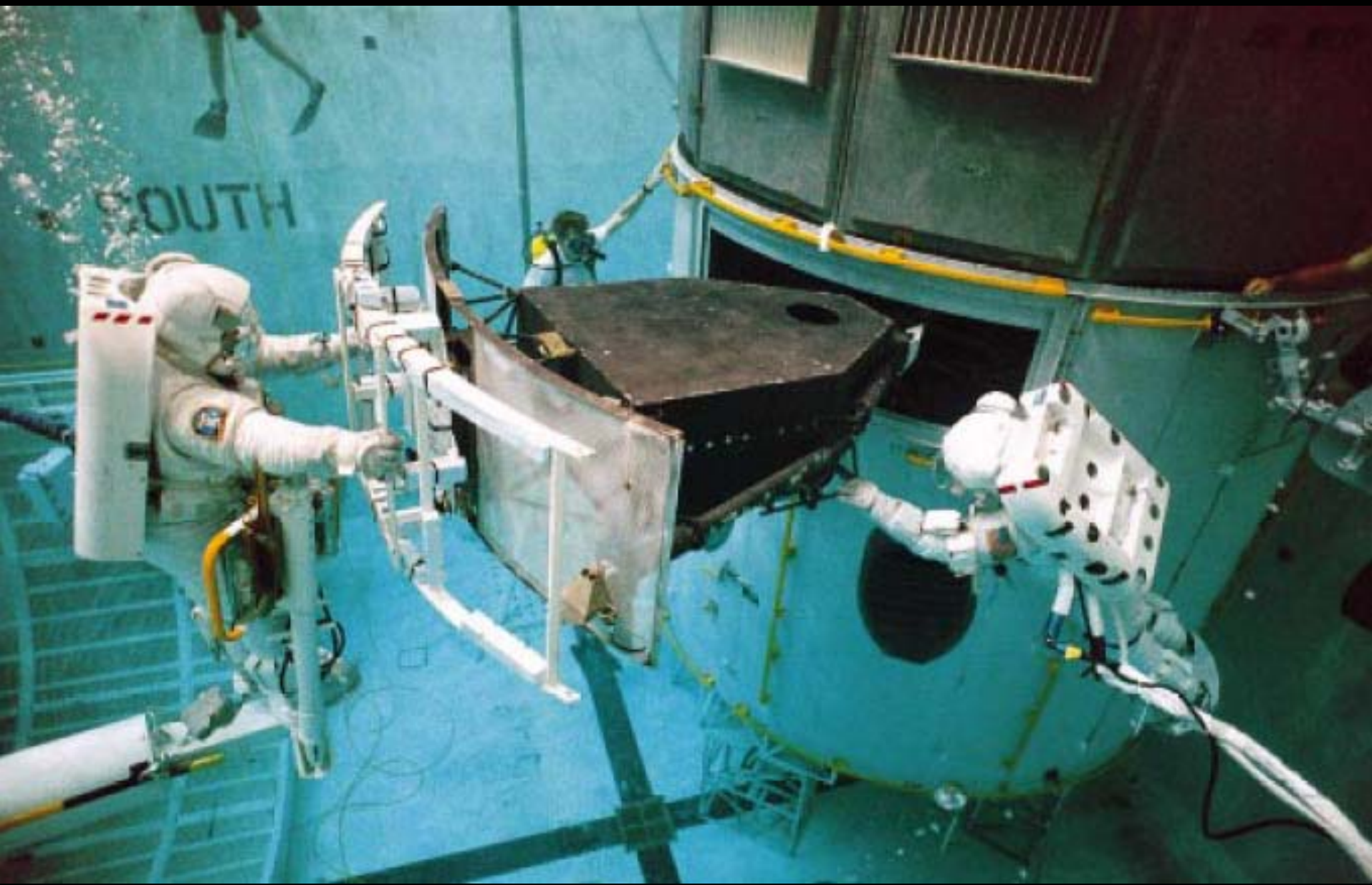
Medwick © 1990 NEA

FIVE..FOUR..THREE...  
HOLD IT! HOLD IT!...  
STOP THE COUNTDOWN!





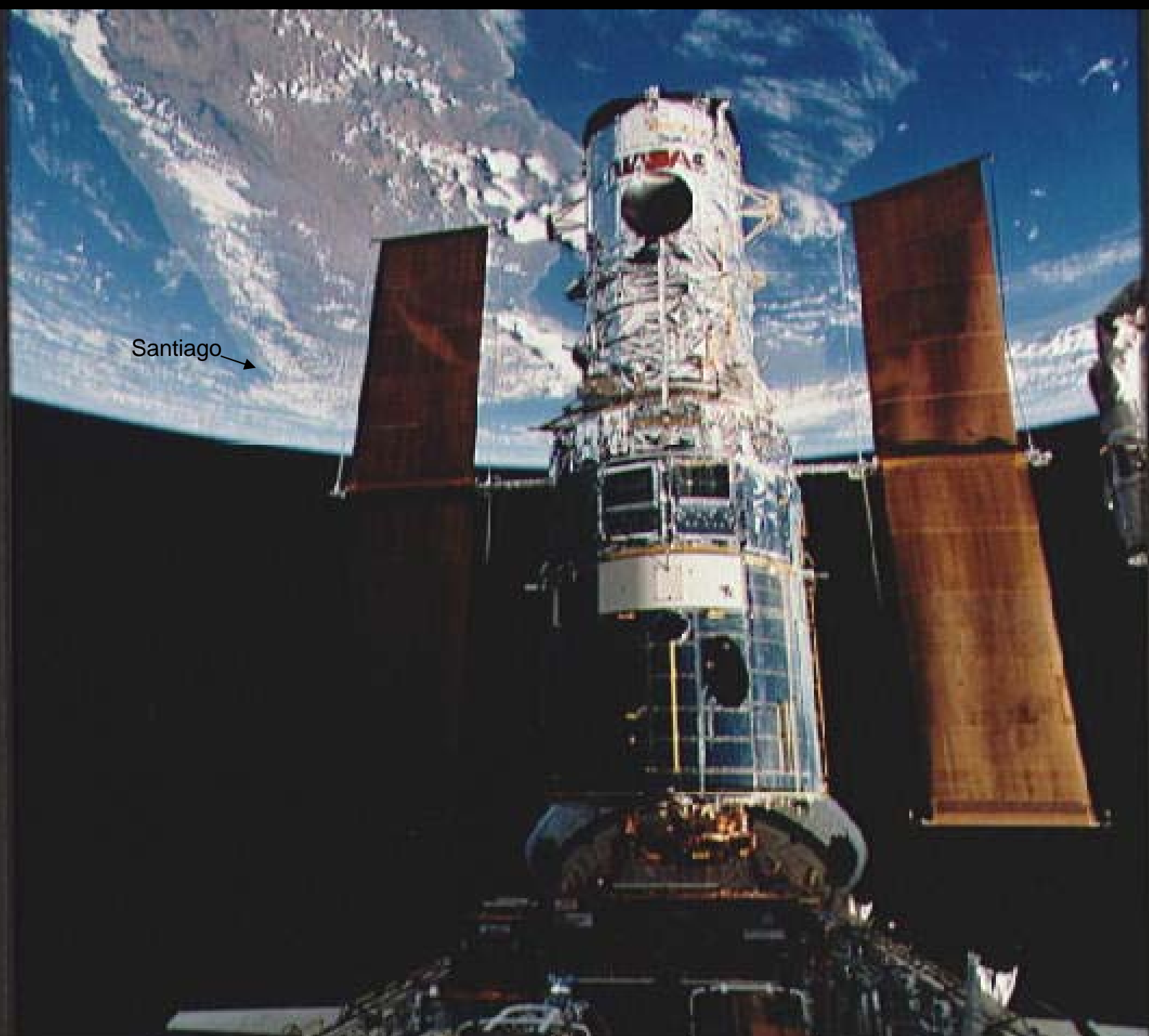




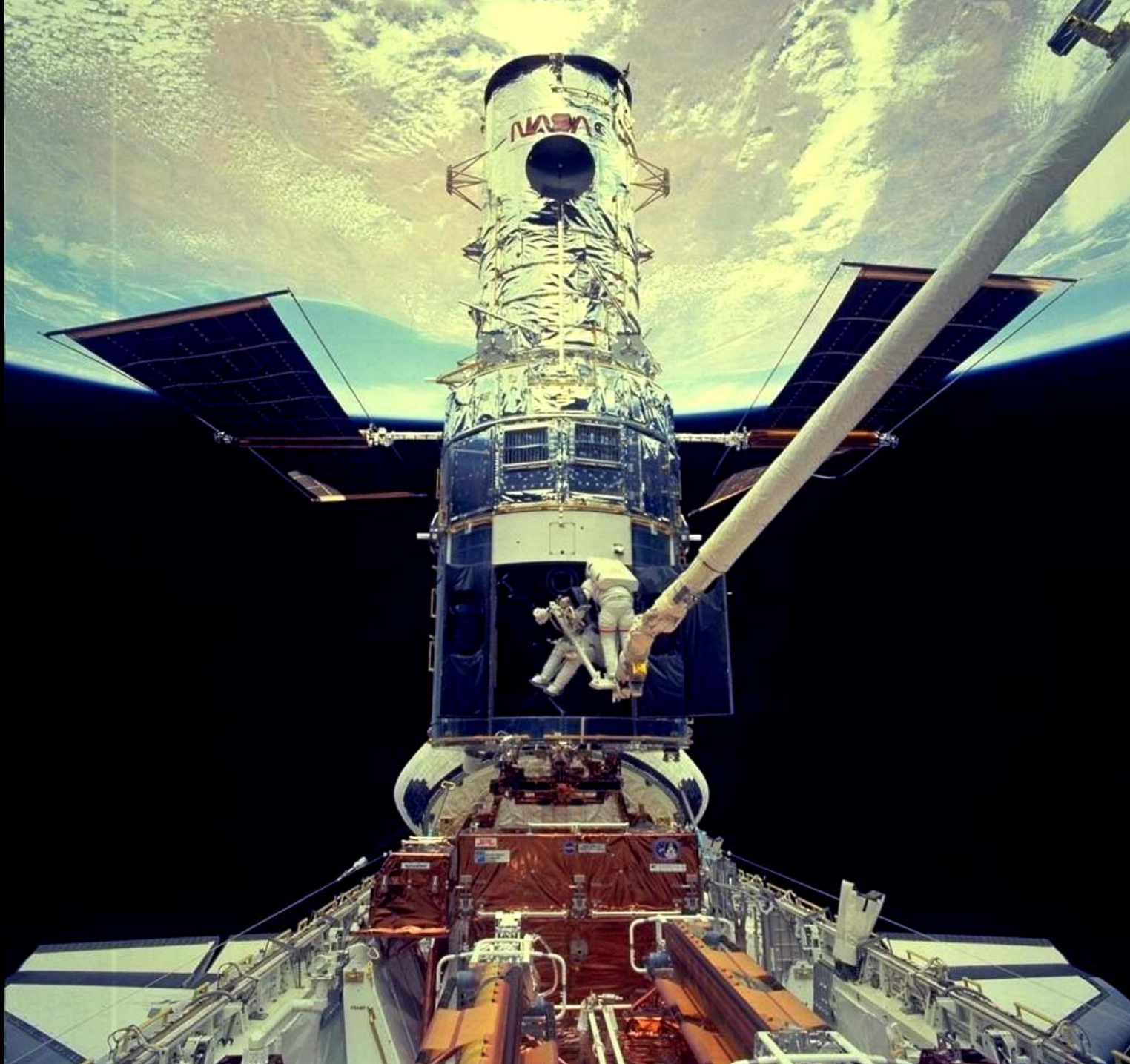
2 Dec 1993

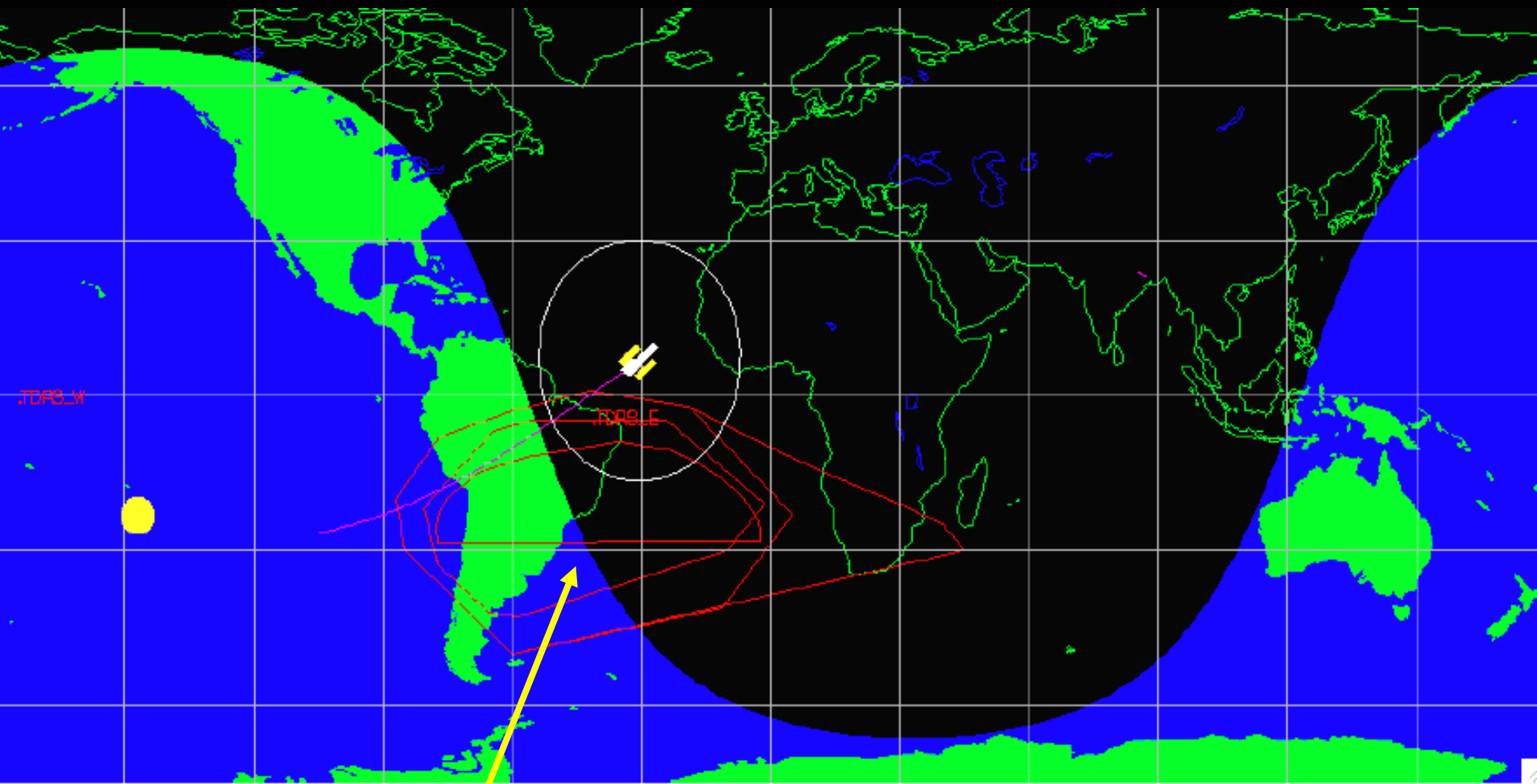


Santiago →



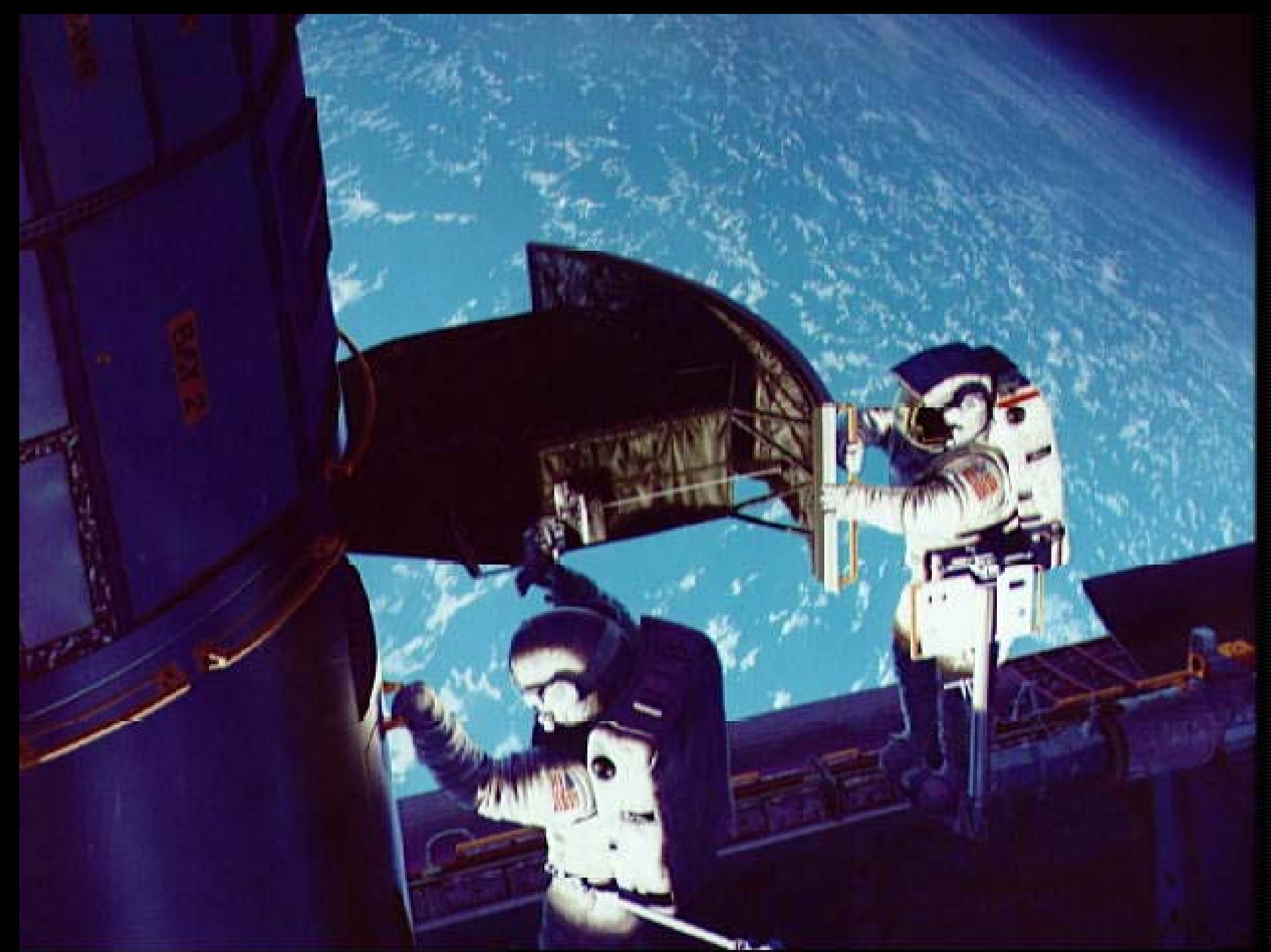






South Atlantic Anomaly











Wide Field Planetary Camera 1

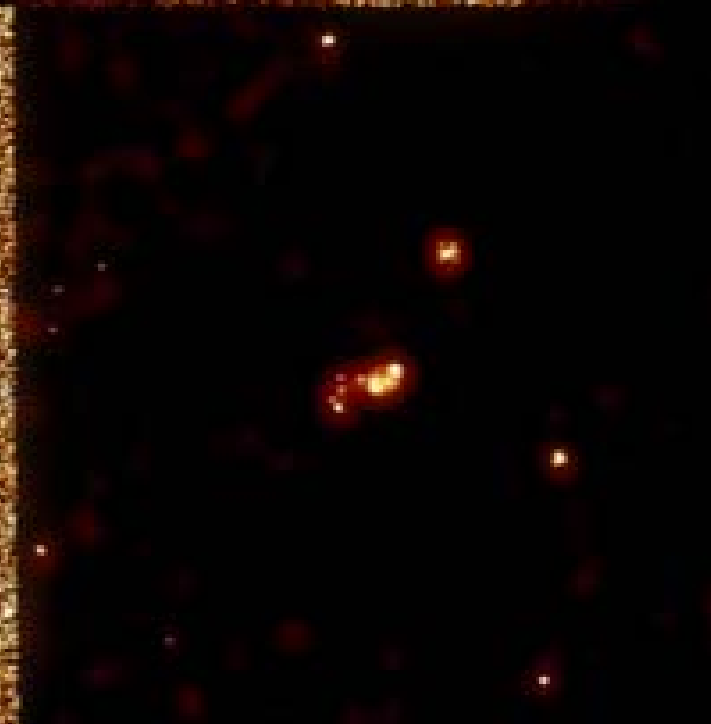
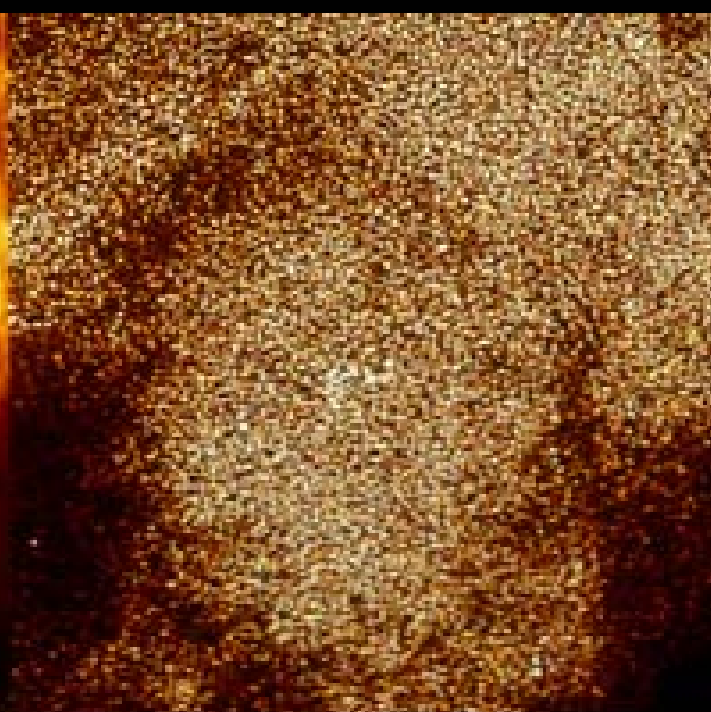
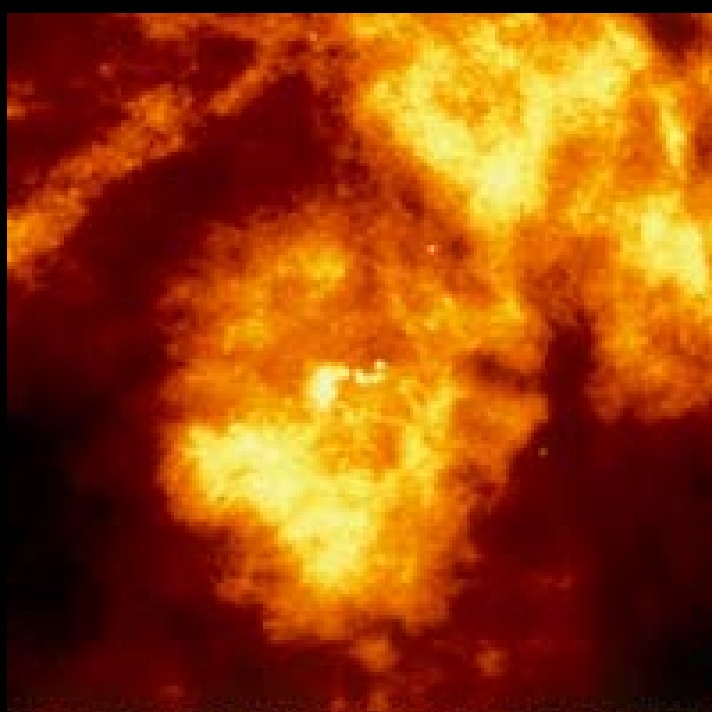


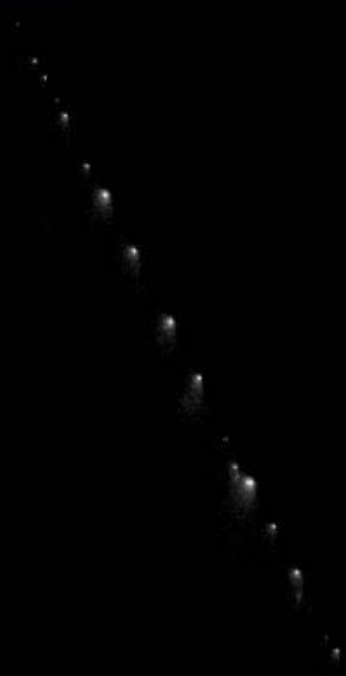
Wide Field Planetary Camera 2









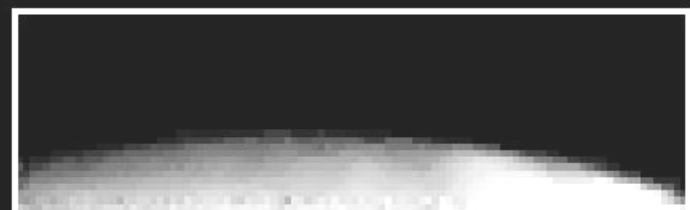


Comet Shoemaker-Levy 9

July 1994

Jupiter 16 July 1994

20:15 UT



Methane

20:18 UT



Red

20:21 UT



Blue

20:24 UT



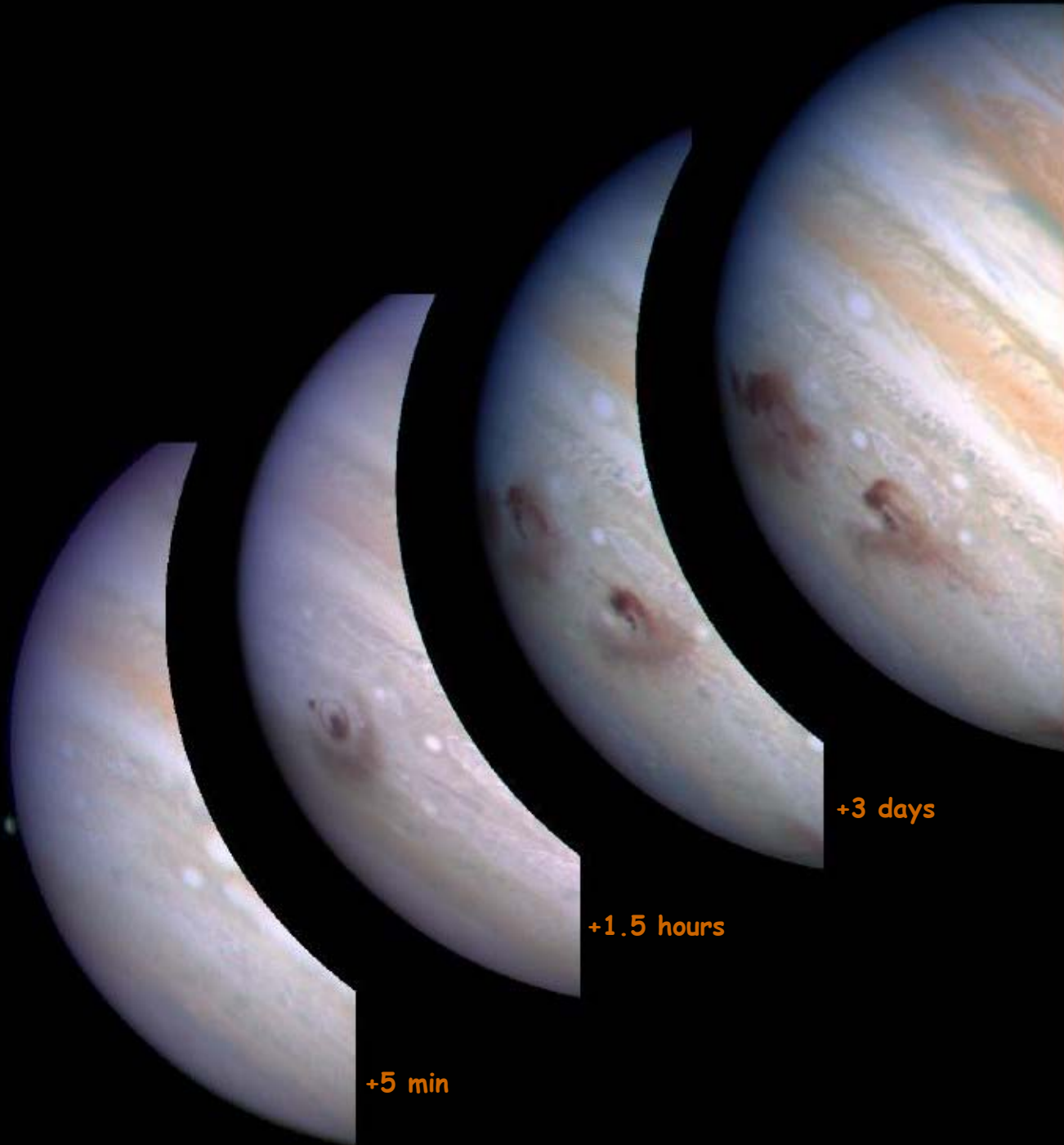
Violet

20:27 UT



UV

Wide Field Planetary Camera 2  
Hubble Space Telescope



+5 min

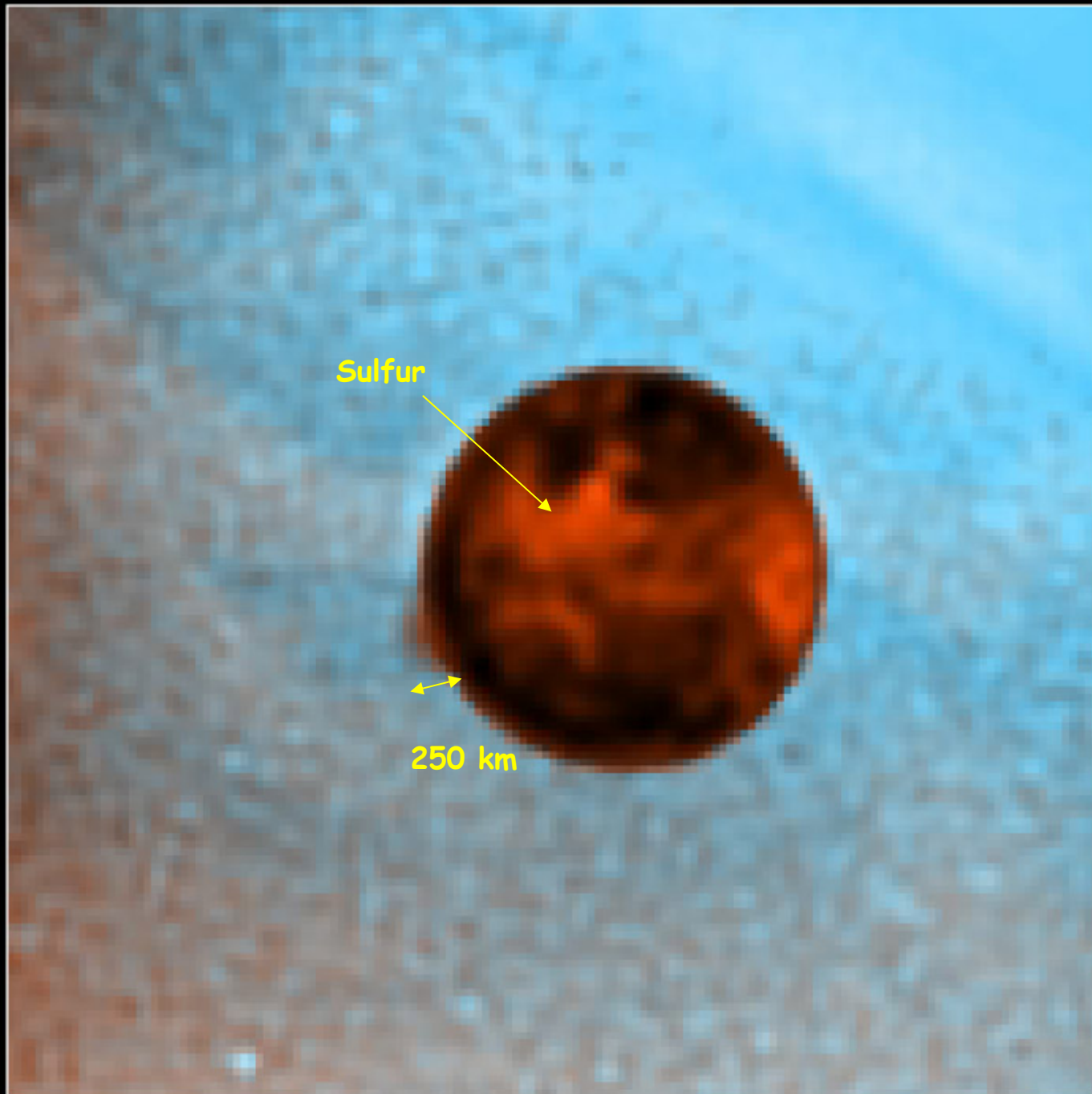
+1.5 hours

+3 days

+5 days

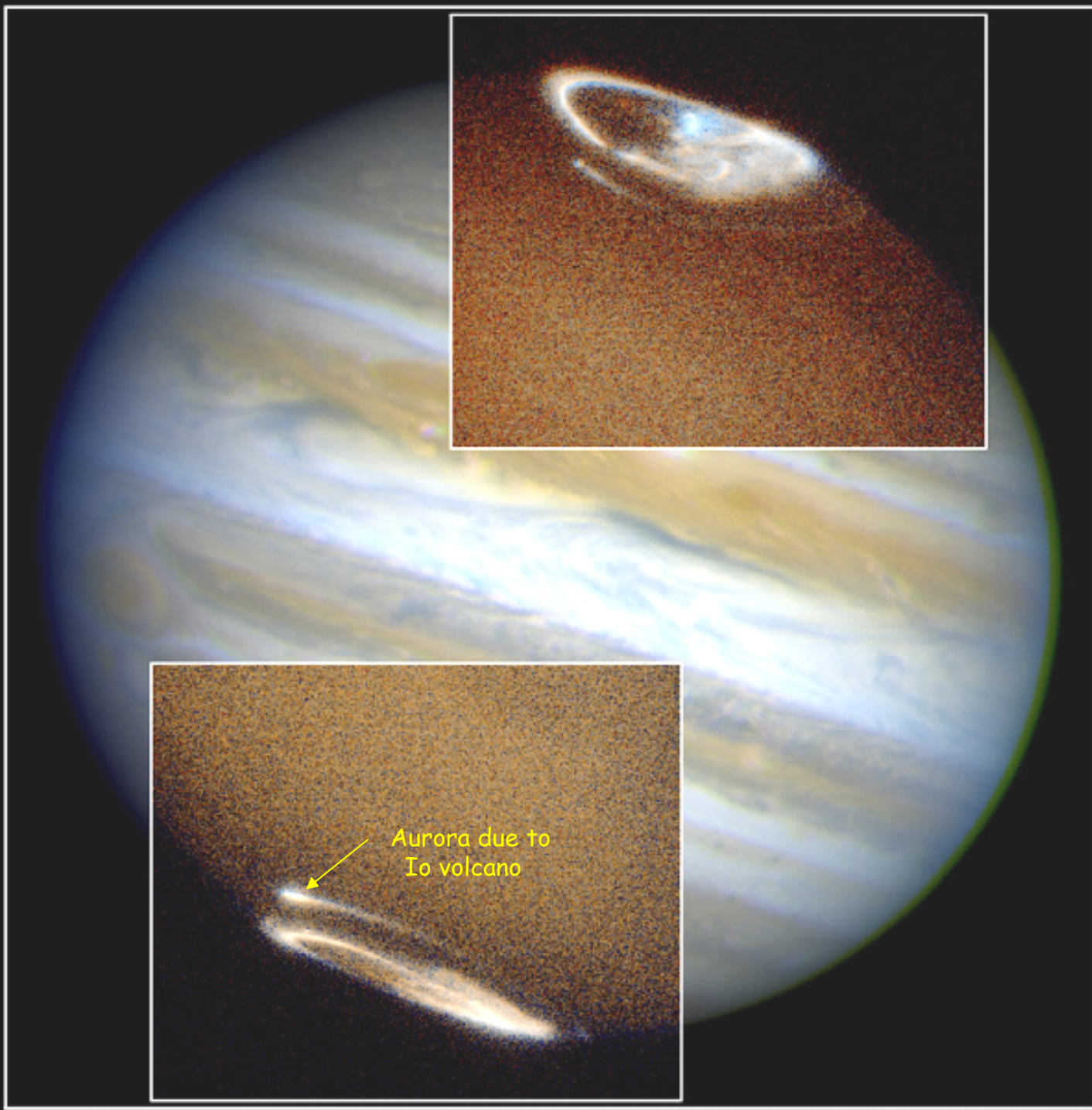






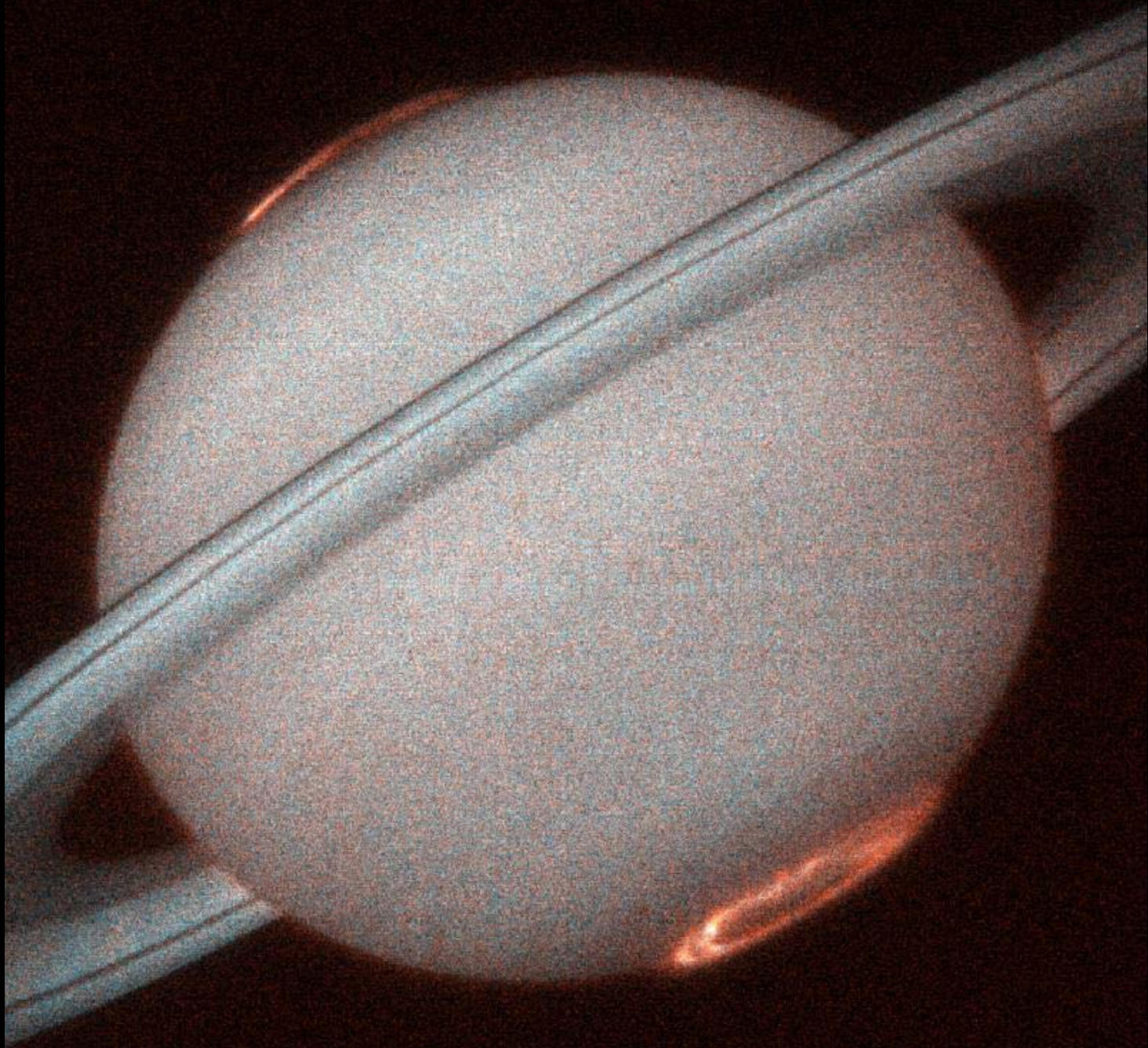
**Pele • Volcano on Io**

**HST • WFPC2**



Aurora due to  
Io volcano

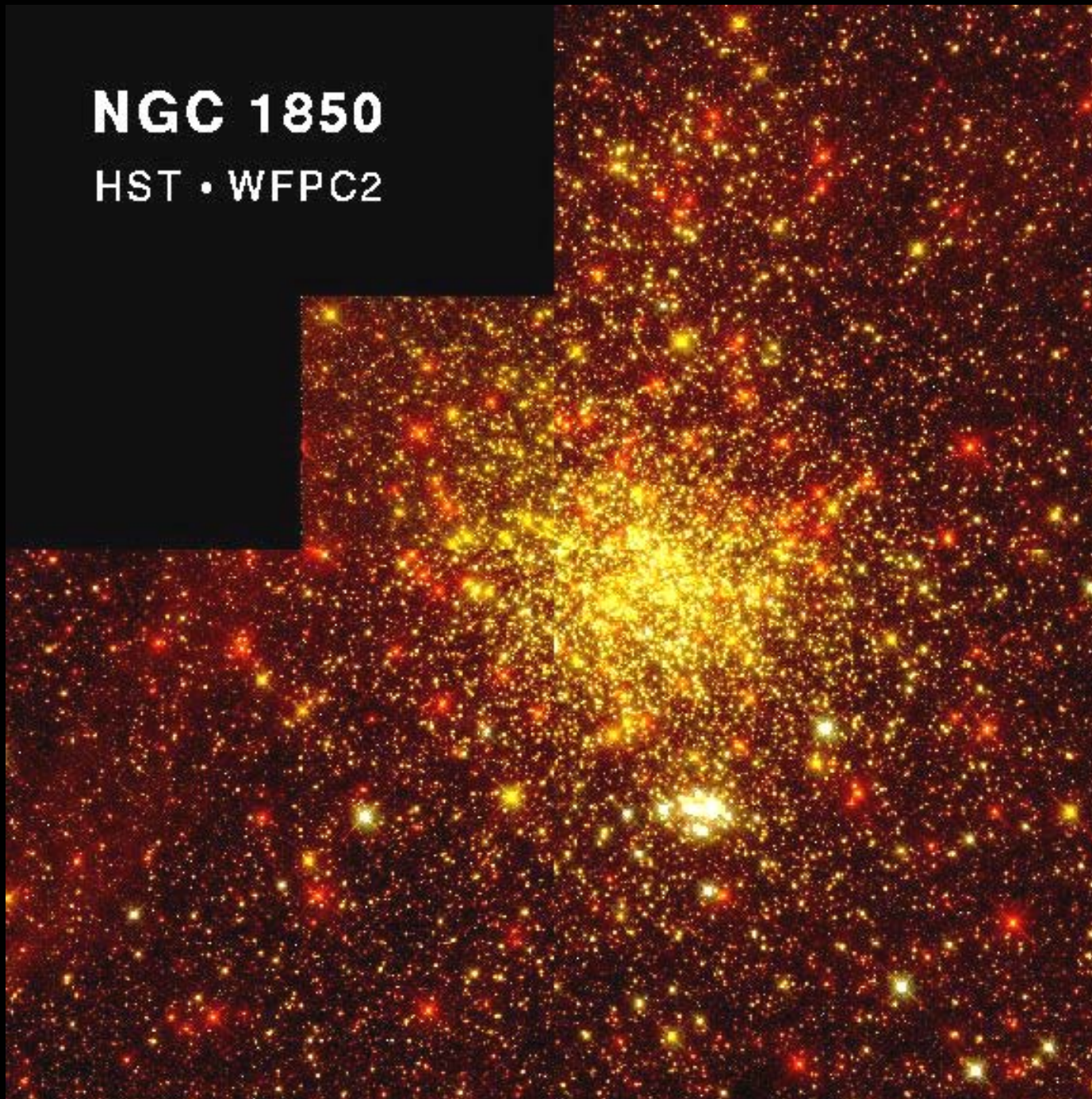






**NGC 1850**

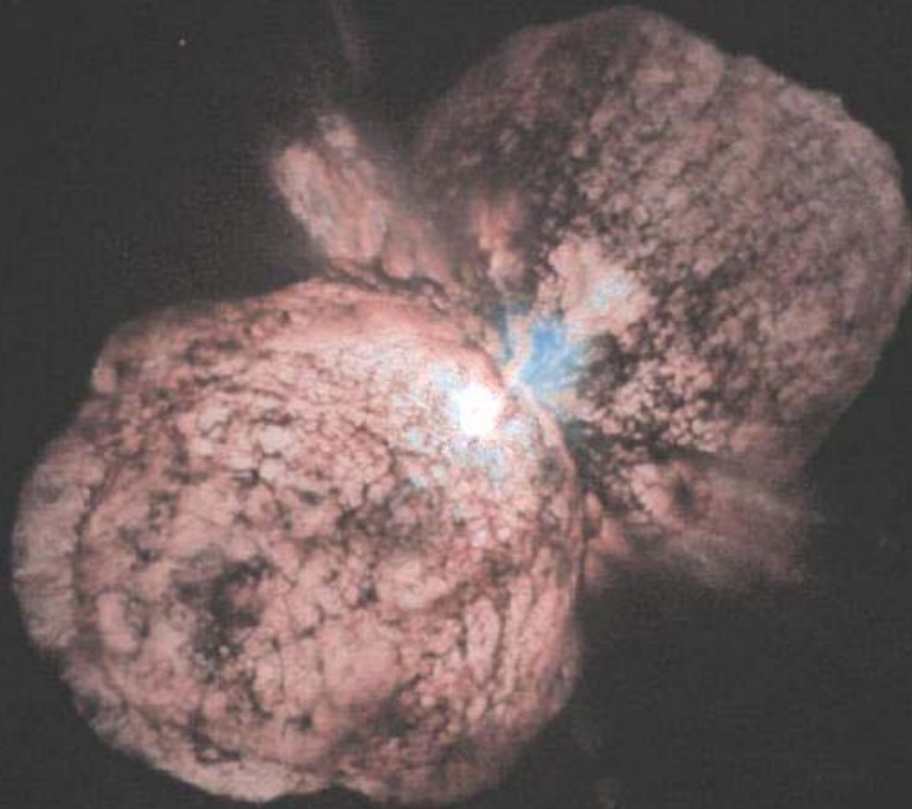
HST • WFPC2



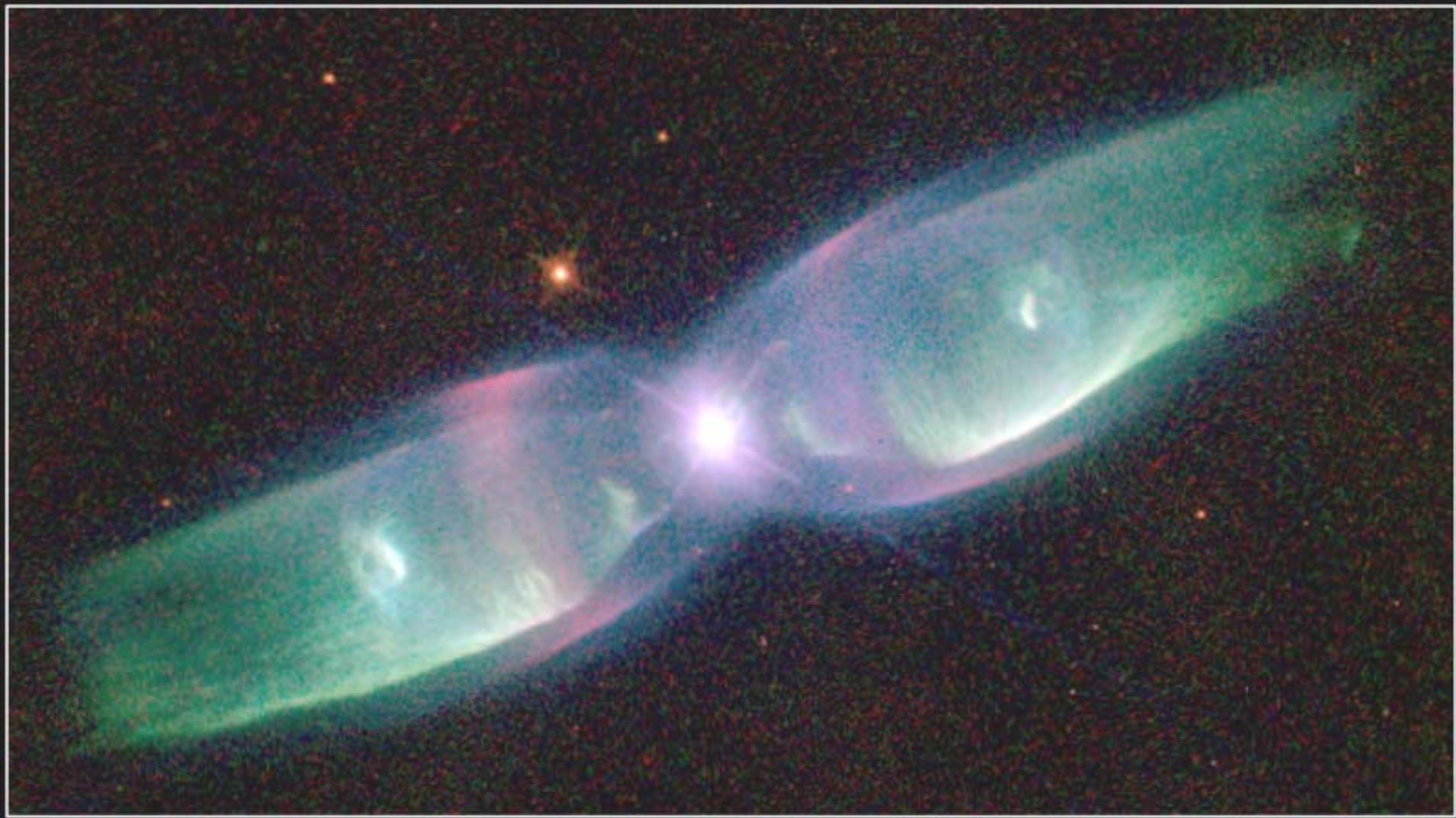
# Messier 16—Eagle Nebula







Eta Carina



Planetary Nebula M2-9

HST • WFPC2



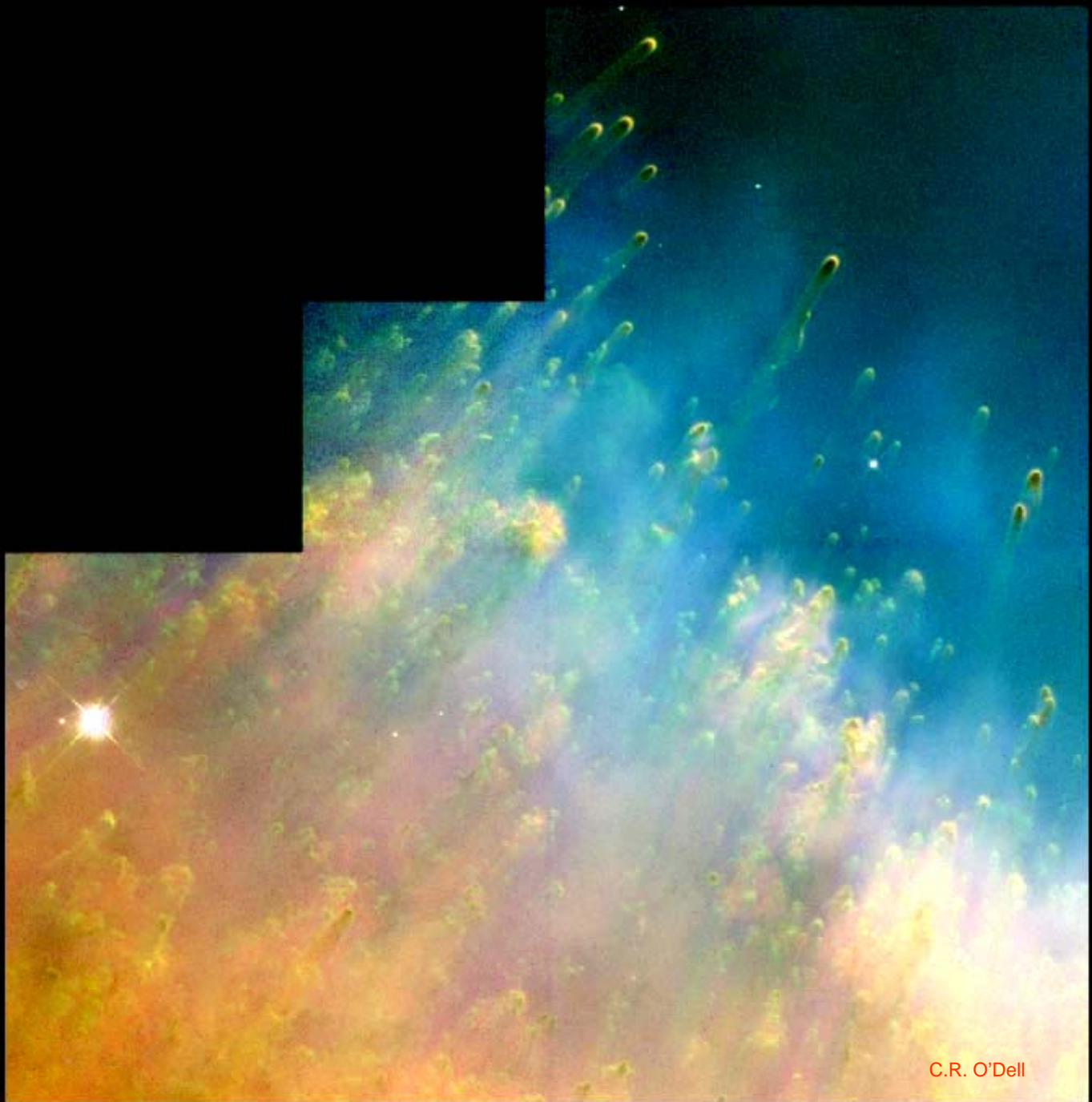
A photograph of the M87 galaxy's jet. A bright yellowish-white star at the top left is the core of the galaxy. A long, narrow, blueish-purple jet of plasma extends diagonally from the core towards the bottom right. The background is a dark, reddish-brown field with many small, faint stars.

M87 Jet

J. Biretta



NGC 7293



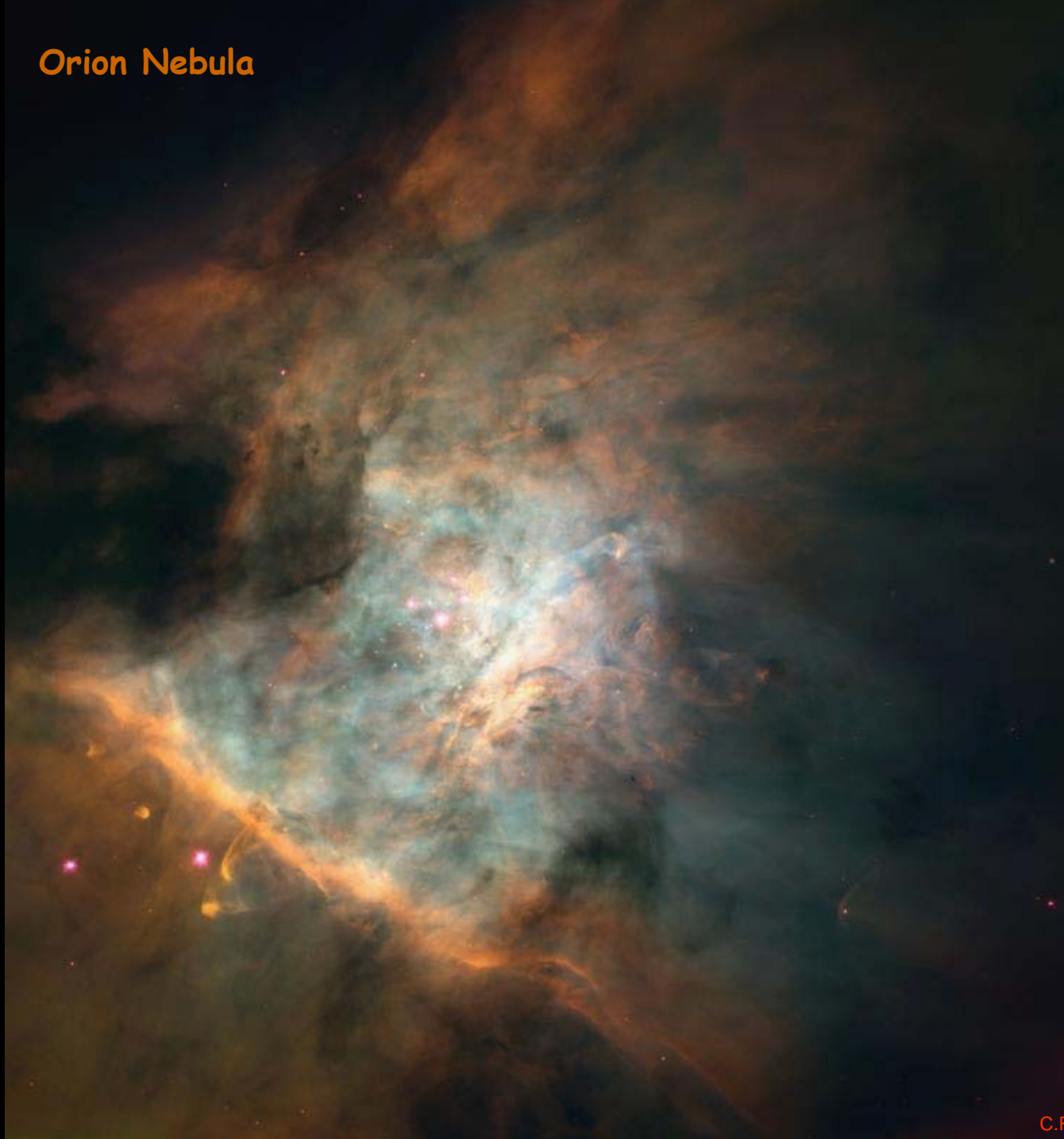
C.R. O'Dell

Helix Nebula · NGC 7293

HST · WFPC2



# Orion Nebula

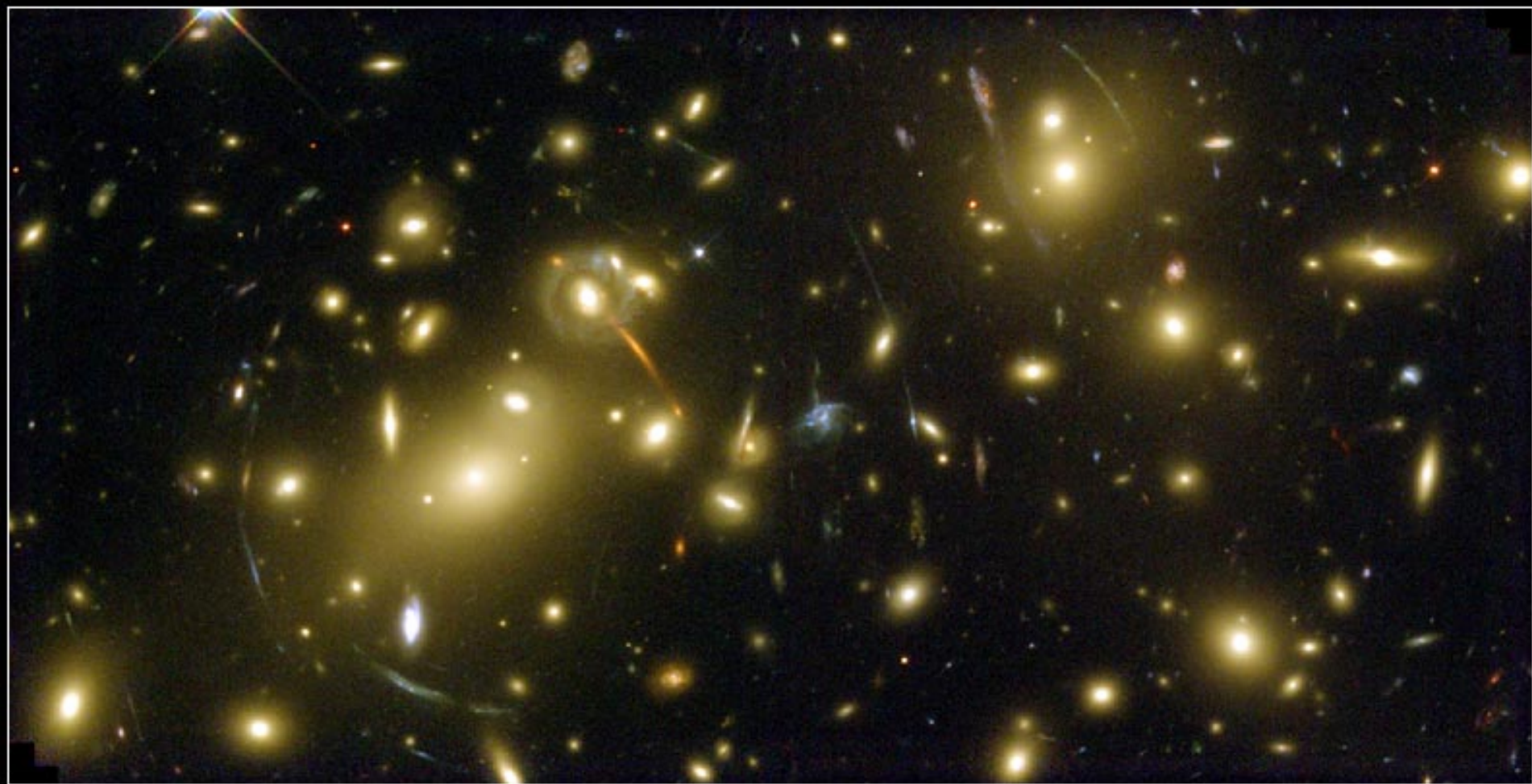




J. Bally

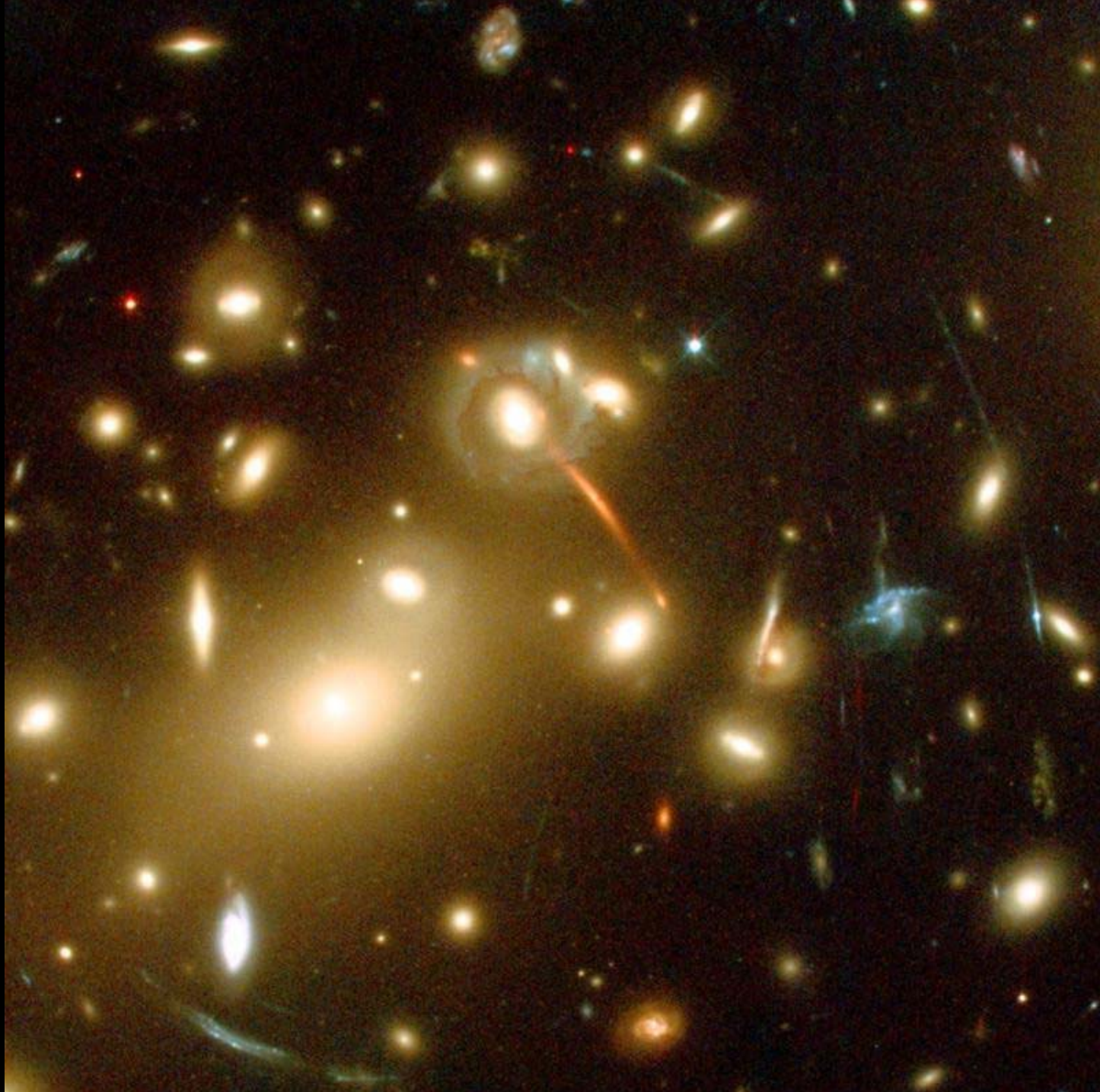
Protoplanetary Disks in the Orion Nebula HST • WFPC2



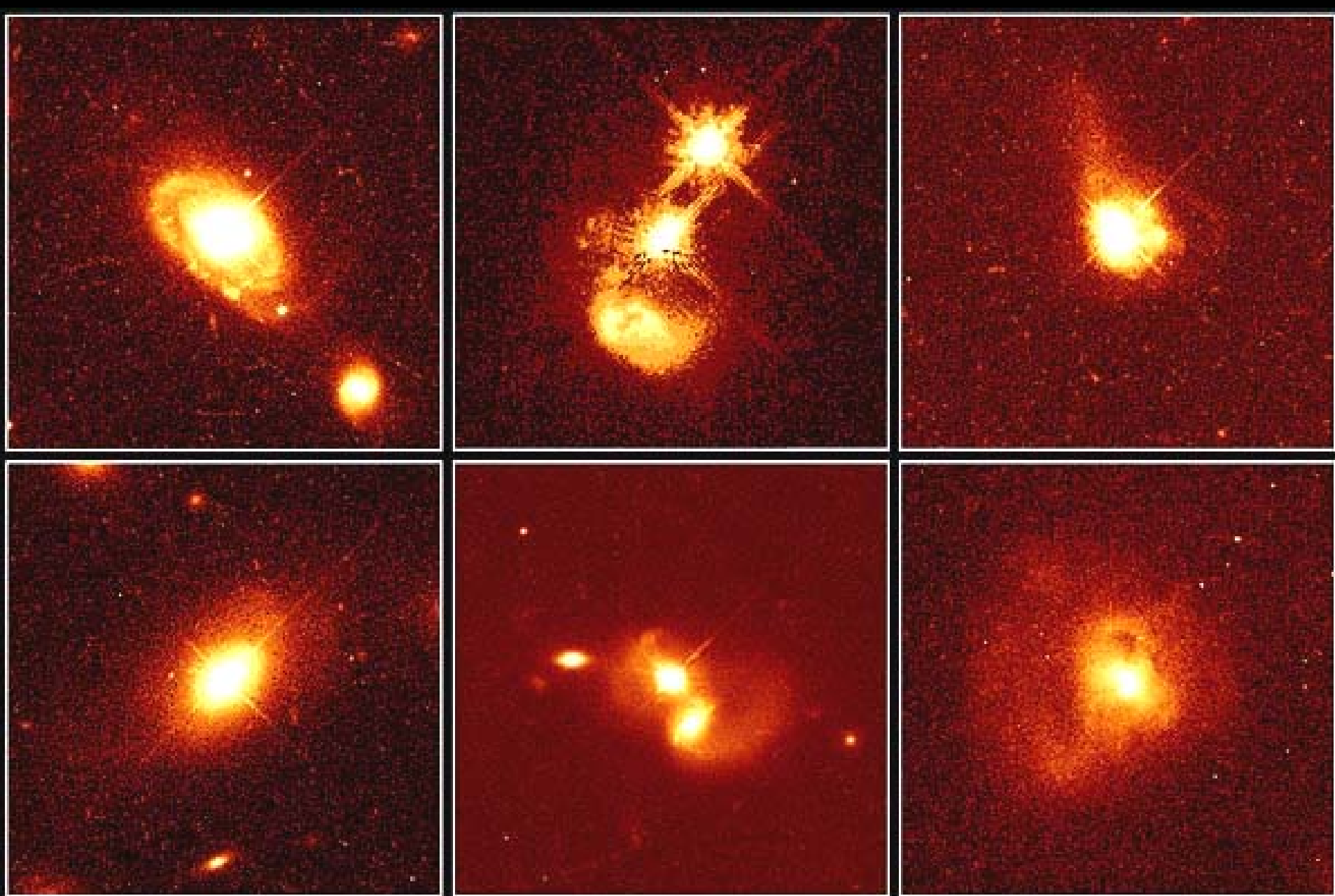


**Galaxy Cluster Abell 2218**

**HST • WFPC2**







**Quasar Host Galaxies**

**HST • WFPC2**