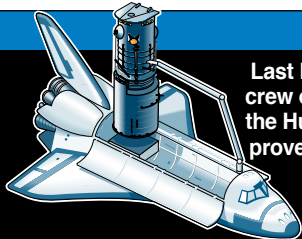
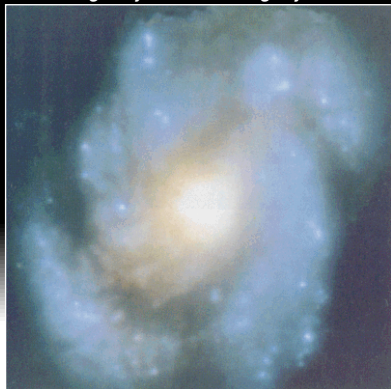


An end to Hubble's troubles

Last December's \$700 million, 12-day mission by the crew of the Space Shuttle *Endeavour* to try to restore the Hubble Space Telescope's short-sightedness has proved a success. Latest pictures from Hubble show that it now gathers light four times as efficiently as it did before the repairs and its ability to view the heavens has finally been restored



The M-100 galaxy – 50 million light-years from Earth – photographed Nov 29 and Dec 31, 1993



B E F O R E R E P A I R



A F T E R R E P A I R

1. Solar arrays

British built replacement panels stop wobble caused by temperature change every time Hubble passes through the Earth's shadow

Key repairs to Hubble

2. Computer

On-board computer upgraded with extra memory

3. Main mirror repairs

Installation of COSTAR (Corrective Optics Space Telescope Axial Replacement). This device uses 10 small mirrors to correct Hubble's short-sightedness

4. New camera

Wide Field Planetary Camera installed

