In fifteen years of operation, NASA’s Chandra X-ray Observatory has given us a revolutionary X-ray view of the Universe that is largely hidden from optical telescopes, and enabled breakthroughs in understanding.

SUPERNOVA REMNANTS
Supernova shock waves and seeding of the interstellar medium with carbon, oxygen, calcium and other heavy elements essential for life.

NEUTRON STARS
Neutron star superfluids

BLACK HOLES
Polar wind nebulae

Determination of mass of clusters, and independent evidence for the existence of dark energy

GALAXY CLUSTERS

Chandra’s unique X-ray mirrors give it capabilities well-matched with other major radio, infrared and optical observatories. This creates a synergy that has deepened our understanding of many phenomena:

Largest structures in the Universe: galaxy clusters – dark matter

Protoplanetary disks in star clusters

Exoplanet atmospheres

Formation and growth of supermassive black holes

Black hole jets, feedback and galaxy growth

Chandra: Taking us on a unique voyage into the hot, high-energy Universe.