



**Chandra X-ray
Observatory Center**

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M87: A galaxy with a supermassive black hole at its center located about 55 million light years from Earth.

(Credit: The EHT Multi-wavelength Science Working Group; the EHT Collaboration; ALMA (ESO/NAOJ/NRAO); the EVN; the EAVN Collaboration; VLBA (NRAO); the GMVA; the Hubble Space Telescope; the Neil Gehrels Swift Observatory; the Chandra X-ray Observatory; the Nuclear Spectroscopic Telescope Array; the Fermi-LAT Collaboration; the H.E.S.S collaboration; the MAGIC collaboration; the VERITAS collaboration; NASA and ESA.)

Caption: In April 2019, the Event Horizon Telescope project released the first direct image of a black hole in the galaxy M87. This series of images represent an extensive observing campaign by telescopes around the globe and in space of M87's black hole and the region around it. These telescopes, which included NASA's Chandra X-ray Observatory, cover the entire spectrum of light from radio waves to gamma rays. The images also range in scale from a fraction of a light year to hundreds of thousands of light years. These combined data will help scientists gain crucial insight into the black hole's properties.

Scale: Scale boxes in online video range from 0.01 to 1,000,000 light years across.

Chandra X-ray Observatory ACIS Image

CXC operated for NASA by the Smithsonian Astrophysical Observatory