



**Chandra X-ray
Observatory Center**

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NGC 5813: A group of galaxies located about 105 million light years from Earth.
(Credit: X-ray: NASA/CXC/SAO/S.Randall et al., Optical: SDSS)

Caption: Astronomers have used NASA's Chandra X-ray Observatory to show that a supermassive black hole at the center of a group of galaxies has erupted multiple times over a period lasting about 50 million years. Evidence for the eruptions can be found in the cavities, or bubbles, carved out of the hot gas that envelops the galaxies and glows in X-rays. This composite image contains the X-rays from Chandra (pink) that have been combined with visible light data (gold).

Scale: Image is 8.6 arcmin across (about 260,000 light years)

Chandra X-ray Observatory ACIS Image

CXC operated for NASA by the Smithsonian Astrophysical Observatory
