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Tycho's Supernova Remnant: A supernova remnant located about 10,000 light years from Earth. (Credit: X-ray: NASA/CXC/GSFC/B.Williams et al; Optical: DSS

Caption: By combining observations from over 15 years with the Chandra X-ray Observatory and 30 years with the Very Large Array, scientists have been able to learn new things about Tycho's supernova remnant and the explosion that created it. A movie shows the expansion of the Tycho remnant and allows a detailed study of how the debris field is expanding. In this series of five images (one of which is pictured above) from Chandra taken between 2000 and 2015, low-energy X-rays are red, the medium band of X-rays is green, and the highest-energy X-rays Chandra detected are blue.

Scale: Image is 15 arcmin across (about 44 light years)

Chandra X-ray Observatory ACIS Image

CXC operated for NASA by the Smithsonian Astrophysical Observatory