



**Chandra X-ray
Observatory Center**

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Sonification Project: Stellar, Galactic, and Black Hole Tones
Credit: NASA/CXC/SAO/K.Arcand, SYSTEM Sounds (M. Russo, A. Santaguida)

Caption: These three astronomical objects are the latest to have their data translated into sound. Data sonification converts data from telescopes into a form that users can hear instead of only see. The Chandra Deep Field represents over 7 million seconds exposure time and the deepest X-ray image ever taken. Data from Chandra and Hubble show the Cat's Eye, a phase of stellar life that stars like our Sun experience when they run out of hydrogen and helium. The Whirlpool Galaxy, seen in four different types of light, is a spiral galaxy that is similar to the Milky Way.

Chandra X-ray Observatory ACIS Image

CXC operated for NASA by the Smithsonian Astrophysical Observatory
