



**Chandra X-ray  
Observatory Center**

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**CDF-S Transient:** A source located in the Chandra Deep Field-South (CDF-S) that displays extraordinary properties.

(Credit: X-ray: NASA/CXC/Universidad Católica de Chile/F.Bauer et al.)

**Caption:** Scientists using Chandra have discovered a mysterious flash of X-rays in the deepest X-ray image ever obtained. The X-ray source is located in the CDF-S region, shown in the main panel of this graphic where red, green, and blue are low, medium, and high-energy X-rays respectively. The mysterious source (inset box) erupted and became at least a factor of 1,000 brighter in X-rays over a few hours. After about a day, the source had faded completely below the sensitivity of Chandra. While scientists think this source likely comes from some sort of destructive event, its properties do match any known phenomenon and may be of a variety that scientists have never seen before.

**Scale:** Main image is 16 arcmin across. Inset images are 3.7 arcsec across.

*Chandra X-ray Observatory ACIS Image*

*CXC operated for NASA by the Smithsonian Astrophysical Observatory*