



**Chandra X-ray
Observatory Center**

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Perseus Cluster: A galaxy cluster located about 250 million light years from Earth.
(Credit: NASA/CXC/GSFC/S. Walker, ESA/XMM, ROSAT)

Caption: A gigantic and resilient "cold front" is hurtling through the Perseus galaxy cluster according to data from Chandra & other X-ray observatories. This cosmic weather system spans about two million light years and has been traveling for over 5 billion years, longer than the existence of our Solar System. This image shows the cold front in the Perseus cluster where X-ray data from Chandra – for regions close to the center of the cluster – have been combined with data from the XMM-Newton and ROSAT satellites for regions farther out. The Chandra data have been specially processed to brighten the contrast of edges to make subtle details more obvious.

Scale: Image is about 42 arcmin (about 3 million light years) across.

Chandra X-ray Observatory ACIS Image

CXC operated for NASA by the Smithsonian Astrophysical Observatory
