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The Chandra Fornax Survey

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The Chandra Fornax Survey comprises a mosaic of ten Chandra fields covering the inner 1 degree of the Fornax galaxy cluster, totaling 0.5 Msec of exposure time. At a distance of 20 Mpc, X-ray structure in Fornax is resolvable to 100 pc scales. Over seven hundred X-ray sources have been resolved in the data, at least 200–300 of which likely inhabit the cluster and include dwarf galaxies, intra-cluster globular clusters and an array of other objects. Emission and temperature maps clearly show infalling galaxies, and a remarkably asymmetric “swept back” cluster emission and distribution of X-ray active member galaxies. We describe many of the key results and argue that Fornax itself is experiencing an “intergalactic wind” as it coalesces with a known galaxy group falling inwards from 1 Mpc away.