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Map of the entire Sky in X-rays and its variability over time

Wednesday, 10 July 2024 09:30 (30 minutes)

This map contains information about the diffuse emission of the halo of our Galaxy, millions of accreting supermassive black holes, half a million stars with active coronae, and 50,000 clusters of galaxies filled with dark matter and diffuse hot gas. It demonstrates strong variability of X-ray sources on different time scales from the giant explosions in our Galaxy and the Tidal Disruptions of stars near supermassive black holes in Active Galactic nuclei. This map was created using the data of the whole sky scans by SRG Orbital Observatory with eRosita and ART-XC X-Ray grazing incidence telescopes aboard. SRG works on the halo orbit around the second Lagrange point similar to the orbit of the James Webb Telescope 1.5 Mln km away from the Earth.

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