APERTIF

Imaging survey data available

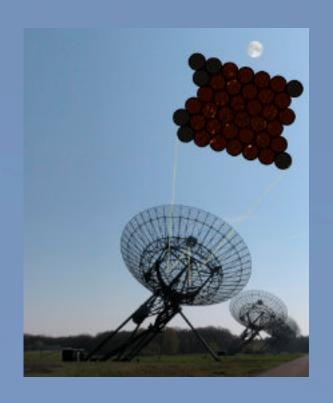
The first data release from the Apertif imaging surveys are available, covering the first year of survey observations.

Apertif is phased-array feed for the Westerbork Synthesis Radio Telescope, providing 40 instantaneous beams and greatly increasing the field of view. This enabled large-scale imaging and time-domain surveys to be carried out from 1 July 2019 through 28 February 2022. The imaging surveys cover 2250 square degrees, with a subset of 130 square degrees at a medium-deep depth with up to ten times the observing time.

The first imaging data release contains radio continuum images, polarization images and cubes, and (dirty) spectral line cubes, with associated dirty beams, from the first year of survey observations (Adams+ 2022). The radio continuum images are required to pass quality assurance for data products to be released. A radio continuum source catalog is also available (Kutkin+ 2022).

The next Apertif imaging data release will focus on high quality continuum mosaics and associated source catalogs covering the LOFAR deep fields.

Visit https://vo.astron.nl to access the available data.



Key data release facts:

Sky coverage
Effective bandwidth
Central frequency
Resolution
Continuum sensitivity
Polarization sensitivity
Spectral line sensitivity
Continuum sources

970 sq degrees 137.5 MHz 1361.25 MHz 11'' ×11'' /sin(δ) 41 uJy/beam 37 uJy/beam 1.6 mJy/beam 249,672

