

# ADASS XIII abstract submission

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**Title :** Catalog Generation for the 2MASS All-Sky Data Release

**Presentation type requested :** poster (none specified)

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**Abstract :** The Two Micron All Sky Survey (2MASS) recently announced the debut of its All-Sky Data Release, culminating an eight year program to conduct a highly uniform digital imaging survey of the entire sky in three near infrared bands. The All-Sky Release is comprised of a Point Source Catalog (PSC) containing accurate positions and photometry for ~471 million objects, an Extended Source Catalog (XSC) containing positions, photometry and basic shape information for over 1.6 million resolved sources, and an Image Atlas containing over 4.1 million astrometrically and photometrically calibrated images. Following a brief overview of the 2MASS mission, I will describe the process used to draw the final highly reliable 2MASS Catalogs from the much larger working databases that contain extractions of all sources made during survey data processing. The judicious use of SNR thresholds and automated artifact identification balanced meeting the reliability requirements with maintaining the completeness of the Catalogs. I also discuss some compromises made in the contents of the All-Sky Release Catalogs that will allow users to use fainter source extractions while maintaining the ability to draw uniform samples across the sky.

Two Micron All Sky Survey is a collaboration between the University of Massachusetts and the Infrared Processing and Analysis Center/California Institute of Technology, funded by the National Aeronautics and Space Administration and the National Science Foundation.

**Special requests :** None.

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