



# CASDA VO Use Cases

IVOA Radio Interest Group

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## CASDA VO Motivation



Provide science ready data products

Images, catalogues, spectra etc.



One API for system and astronomer use



Interoperability



# CASDA Documentation

Introduction to CASDA

<https://casda.csiro.au>

Usage Guide

<https://www.atnf.csiro.au/observers/data/casdaguide.html>

Astroquery

<https://astroquery.readthedocs.io/en/latest/casda/casda.html>



# Catalogue Use Cases

- Find and download catalogues using TAP
- Cone search on a catalogue
- Programmatic search of source detection catalogues
- Catalogue cross-match - external catalogue with ASKAP



# TOPCAT Introduction

- Simple queries
- Plotting
- SAMP to Aladin
- Cross-match



# Image and Cube Use Cases

- Find images and image cubes (SIA2)
- Programmatic access to data products
  - Recommend Astroquery now
- Generate cut-outs via script (SIA2 + SODA)



# General Data Discovery Use Cases

- Use ObsCore to data products
- Can query with TAP
- Most data products have s\_region and ra/dec



# Thank you

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