



Overview

This lesson will highlight the various online catalogs that can be useful in the course of your Astronomical Research. While not mandatory for the introductory paper, these resources should be considered for developing an above average paper and should be included in subsequent research projects.

In Astronomy, there are many (MANY) different catalogs. *Centre de Données astronomiques de Strasbourg astronomical Data Center* was developed to provide quick access to major catalogs and provide a means to research an individual item with multiple references in a simplified fashion.

For this lesson, access CDS Strasbourg at: http://cdsweb.u-strasbg.fr/ and Stelle Doppie at http://stelledoppie.goaction.it

This lesson will cover database search engines: CDS, Stelle Doppie, VIZIER, and SIMBAD. For more information on HIPPARCOS and GAIA, consult those video lessons.



CDS Strausbourg

CDS is a center that has associated four main database search engines into one central location.

When you click on the CDS link (previous slide), you will see a page that appears like the image below.

The four major collections of data are: CDS Portal, SiMBAD, VizieR, and Aladin



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Stelle Doppie

Go to: http://stelledoppie.goaction.it

This catalog blends the Washington Double Star Catalog with other research catalogs accessible at CDS Strausburg.

You can associate your double star with other catalog images, stellar types, proper motion, and other such information via the SIMBAD catalog.





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Online Catalogs - SiMBAD

SIMBAD

SiMBAD is principally used to access published papers that are referenced in your WDS historical

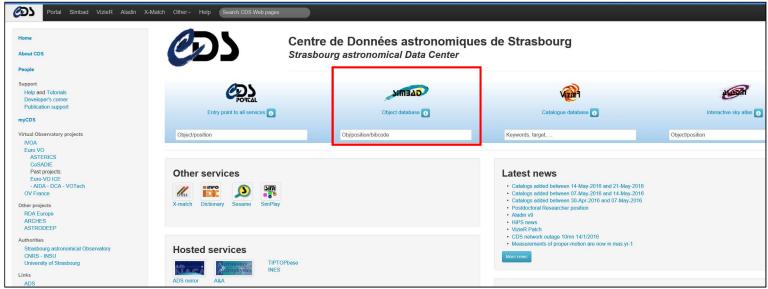
data such as this example:

WFC1998 Urban, S.E., Corbin, T.E., Wycoff, G.L., Martin, J.C., Jackson, E.S., 1998AJ....115.1212U

Zacharias, M.I., & Hall, D.M.

AJ 115, 1212, 1998 (Astrographiq Cat. 2000)

Additionally, SiMBAD, as seen in Stelle Doppie, can link stellar images and data for your research



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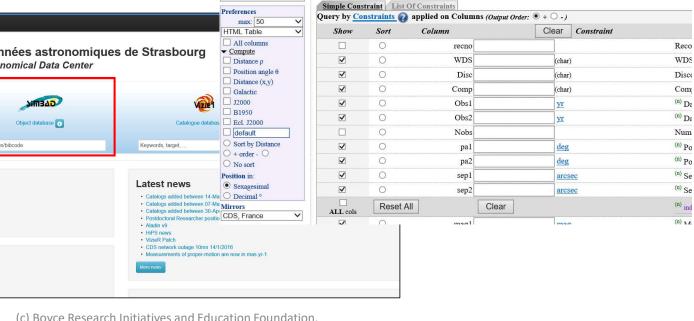


Online Catalogs - VizieR

VizieR

Allows the user to search for an object by RA/DEC and colocate data from a variety of other catalogs around that particular position. For example: HIPPARCOS, WDS, and GAIA.





Portal Simbad VizieR Aladin X-Match Other Help

Simple Target List Of Targets

Clear 06016+1635

Target Name (resolved by Sesame) or Position

× J2000

1.B/wds/wds The Washington Double Star Catalog (main part) (137199 rows)

Target dimension:

● Radius ○ Box size

If the WDS and associated databases were helpful for your research work, the following ackn

V 2

The Washington Visual Double Star Catalog (Mason+ 2001-2014)

arcmin ~

₽ B

Back

Add

Choose

Search Criteria

Save in CDSportal

Keywords

B/wds

notes

.refs

b/wds/wds Tables



Questions?