

Early stage Development of

The JETSET database



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Example: “The Youngest Protostars”

by Dirk Froebrich



The Youngest Protostars

Sort by:

[Name](#) [R.A.](#) [Distance](#)

W3OH	Basic SED Notes
L1448-I2	Basic SED Notes
HRF 31	Basic SED Notes
L1448NW	Basic SED Notes
L1448N	Basic SED Notes
L1448C	Basic SED Notes
HRF 86	Basic SED Notes
RNO15FIR	Basic SED Notes
L1455-SMM1	Basic SED Notes
NGC1333 I1	Basic SED Notes
HRF 71	Basic SED Notes
HRF 55	Basic SED Notes
HRF 75	Basic SED Notes
IRAS 03256+3055	Basic SED Notes
NGC1333-I2	Basic SED Notes
HRF 68	Basic SED Notes
HRF 47	Basic SED Notes
HRF 65	Basic SED Notes
NGC1333-I6	Basic SED Notes
SVS13 B	Basic SED Notes
HH7-11 MMS6	Basic SED Notes
HRF 62	Basic SED Notes
HRF 46	Basic SED Notes
NGC1333-I4A	Basic SED Notes

◀ [Basic Data](#) ▶ ◀ [Broadband data](#) ▶ ◀ [Notes](#) ▶ [ALADIN Preview](#) [SIMBAD DATA](#)

HRF 86

Wavelength[μ m]	Flux[Jy]	Error[Jy]	Aperture["]	Flag	Reference
1.25	0.000763	0.0000763	?	u	2007A&A...468.1009H
1.65	0.000934	0.0000934	?	u	2007A&A...468.1009H
2.17	0.00127	0.000127	?	u	2007A&A...468.1009H
3.6	0.000045856	0.0000045856	?	f	2007A&A...468.1009H
4.5	0.000033577	0.0000033577	?	f	2007A&A...468.1009H
5.8	0.0018643	0.00018643	?	f	2007A&A...468.1009H
8.0	0.000051236	0.0000051236	?	f	2007A&A...468.1009H
12.0	1000	100	2.5	u	2007A&A...468.1009H
25.0	1000	100	?	u	2007A&A...468.1009H
60.0	0.0031	0.00031	?	u	2007A&A...468.1009H
100.0	1000	100	?	u	2007A&A...468.1009H
850.0	0.78532	0.078532	90	f	2007A&A...468.1009H
1100.0	0.00001	0.000001	?	u	2007A&A...468.1009H

<http://astro.kent.ac.uk/protostars/>

Some features of “The Youngest Protostars”

- Separate tables for each object.
- Few data for each observation.
- Link to corresponding publication.

This example should give us
ideas but not confine us.

Our Current Goals

- User-entered data.
- Query-able database.
- Separate tables for each object (source+outflow).
- Fields as defined by WP managers.

Early stage development, so still
accepting ideas!

Database Fields

● Outflow Properties

- Name, Alternative name, RA, DEC, Source, Distance from source

● Driving Source Properties

- Distance, Velocity, A_v , LOS Inclination, Disk angle, Mass infall rate, Accretion rate.

● Outflow Observational Properties

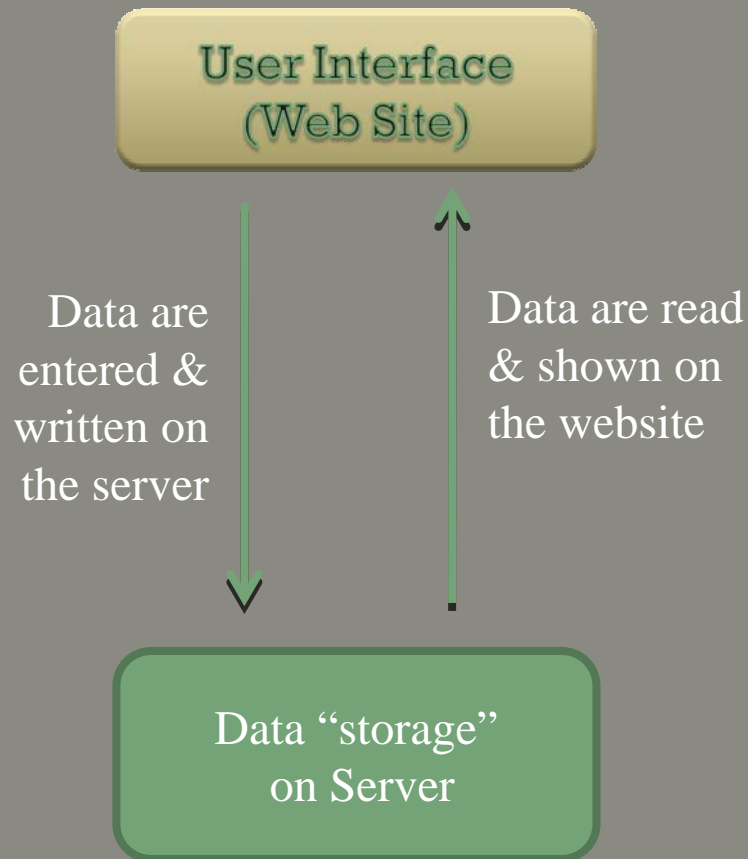
- Position angle, Inclination angle, Luminosity, Unit of Luminosity(estim.), Radial velocity for HVC, Radial velocity for LVC, $R_{\text{VisHelio/LSR}}$, Electron density, Electron temperature, Gas temperature, Total density n_H , Ionisation fraction, Mass outflow rate, Proper motion, Unit of proper motion measurement, Ejection rate, Rotation, Width.

● Data details

- Telescope, Observation type, Instrument, PI, Observation date, Publication, Field of view, Effective angular resolution, Spectral resolution, Wavelength of measurement, Central wavelength, Wavelength range, Wavelength units.

Technical Aspects

in current version



- Website: html
- Storage: text file
- Read/write: php scripts, activated by user.

**very simple
example!**

Database Online Demo

1.Main Interface

Main Page - Enter Data - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://dev.dias.ie/jetsets/SYNCH/work/version1/main.html

Google

Please enter new data

1. Outflow Properties

Outflow Name

Outflow alternative Name

RA = hours

DEC = degrees

Driving Source

Source-Outflow Distance = arcsec

2. Driving Source Properties

Source Distance = parsec

Source Velocity = km/s

Source Av = mag

Disk Inclination (to los) = degrees

Disk Position Angle = degrees

Disk Mass Accretion Rate = M_Sun/yr

View entered Data

Done

Index of /jetsets/SY... Main Page - Enter D... View.bmp - Paint

EN 10:59 AM

Database Online Demo

2. View Entered Data

Test Jetset Data - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://dev.dias.ie/jetsets/SYNCH/work/version1/view_data.php

Entered Data

Outflow Name	Outflow alternative Name	RA(hours)	DEC(degrees)	Driving Source	Source- Outflow Distance (arcsec)	Source Distance (parsec)	Source Velocity (km/s)	Source Av (mag)	Disk Inclination to LOS (degrees)	Disk Position Angle (degrees)	Disk Mass Accretion Rate (M_Sun/yr)
DG Tau	HBC 37	04 27 04.7	+26 06 16.3	DG Tau	12	140					4.6e-8
CW Tau	HH 220	04 14 17.0	+28 10 57.8	CW Tau		150		2.4			8.8e-8
HH 30	V 1213 Tau	04 31 37.5	+18 12 25	HH 30	5	140			0		

[Return to main page](#)

Done

Certificate Error: Na... Test Jetset Data - M... Jetset database Pres... The JETSET databas... main.bmp - ACDSe... EN 2:52 PM

To do list (incomplete?)

- MySQL database
- Queries
- Users access (3 levels of access)
 - 1. View SOME data
 - 2. Enter new data/View ALL data
(including user names & dates)
 - 3. Edit/delete data
- Special fields (Images, Spectra, etc)
- Explore alternative implementations
 - 1. SAADA (<http://amwdb.u-strasbg.fr/saada/>)
 - 2. Ruby on Rails (<http://www.rubyonrails.org/>)
 - 3. ???????

Ευχαριστώ!



Thank You!

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