

IRSA: Una base de datos de la NASA

NASA/IPAC Infrared Science Archive
for NASA's Infrared and Submillimeter Data

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Search IRSA with the Data Discovery Service

Enter an object name or coordinate:

Examples: "M31" "19h17m32s 11d58m02s Equ J2000" "46.5377 -0.2518 ga"

Enter a search radius: arcsec

News and Updates March 21, 2013


The Planck one-year all-sky survey  © ESA, HFI and LFI consortia, July 2013

Planck full sky map.
Image credit: ESA, HFI, & LFI consortia

based on data collected during the nominal mission which spans the period between August 13 2009 and November 26 2010.

Planck is a European Space Agency mission with significant NASA involvement. The primary goal of the Planck mission is to measure the intensity and polarization of the

New


Finder Chart v2 beta


WISE Image Service

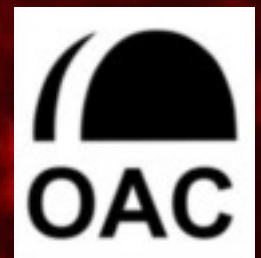

NASA Planck Archive



Expositora: Lic. Leticia V. Ferrero

E-mail: leticia@mail.oac.uncor.edu

Observatorio Astronómico de Córdoba
Universidad Nacional de Córdoba



IRSA - NASA/IPAC Infrared Science Archive

irsa.ipac.caltech.edu/index.html

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Enter a search radius:

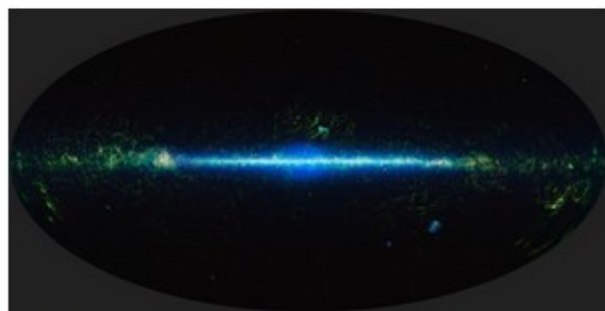
New



Finder Chart v2 beta

News and Updates

May 22, 2013



The sky as seen by the WISE All-Sky Survey.

The Wide-field Infrared Survey Explorer (WISE) and IRSA announce the NEOWISE Post-Cryo Data Release.

The 2013 NEOWISE Post-Cryo Data Release contains 3.4 and 4.6 micron (W1 and W2) Single-exposure image and extracted source data that were acquired by WISE following the exhaustion of solid hydrogen in the satellite's payload inner and outer cryogen tanks. During this period, known as the NEOWISE Post-Cryo survey phase, the WISE optics and focal plane assemblies warmed to 73.5 K, and the W1 and W2 HgCdTe detectors continued to operate with sensitivities close to those achieved during the full cryogenic mission phase. WISE scanned approximately 70% of the sky during the Post-Cryo phase, completing a survey of the inner Main Asteroid Belt, and a second coverage epoch of the inertial sky. The 2013 NEOWISE Post-Cryo Release supersedes the 2012 Post-Cryo Preliminary Release.

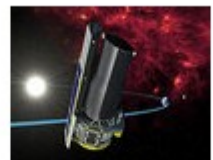
May 15, 2013



WISE Image Service



NASA Planck Archive



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Contributed Data

payload inner and outer cryogen tanks. During this period, known as the NEOWISE Post-Cryo survey phase, the WISE optics and focal plane assemblies warmed to 73.5 K, and the W1 and W2 HgCdTe detectors continued to operate with sensitivities close to those achieved during the full cryogenic mission phase. WISE scanned approximately 70% of the sky during the Post-Cryo phase, completing a survey of the inner Main Asteroid Belt, and a second coverage epoch of the inertial sky. The 2013 NEOWISE Post-Cryo Release supersedes the 2012 Post-Cryo Preliminary Release.

May 15, 2013

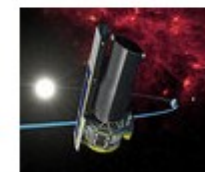
IRSA and the U.S. [Planck](#) Data Center announce the release of enhanced visualization and catalog search tools for the Planck Catalog of Compact Sources and the Planck Sunyaev-Zeldovich catalogs. In addition, compact subsets of the Markov Chains for cosmological parameters (which explore a variety of cosmological models with combinations of Planck and other data) and an updated version of the healpix2tan software (for producing on the fly tangent plane cutouts from healpix all-sky maps), are being made available.

May 9, 2013

IRSA announces the first release of the Spitzer [Frontier Fields](#) data. Using Director's Discretionary observing time, Spitzer and Hubble are undertaking a revolutionary three-year deep field observing program to peer deeper into the Universe than ever before. The Frontier Fields will combine the power of Spitzer and HST with the natural gravitational telescopes of high-magnification clusters of galaxies. These will be the second deepest observations of blank fields and deepest observations of clusters and their lensed galaxies ever obtained.

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[Education & Outreach](#)

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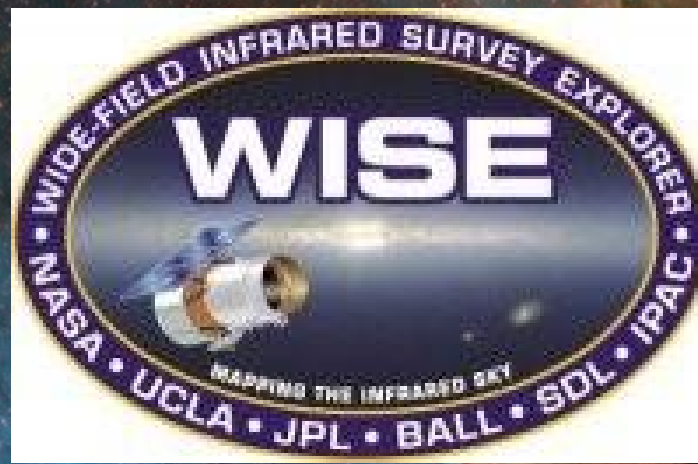
[2009 User Survey](#)

[Results \(pdf\)](#)

[2005 User Survey](#)

[Results](#)

Telescopio WISE



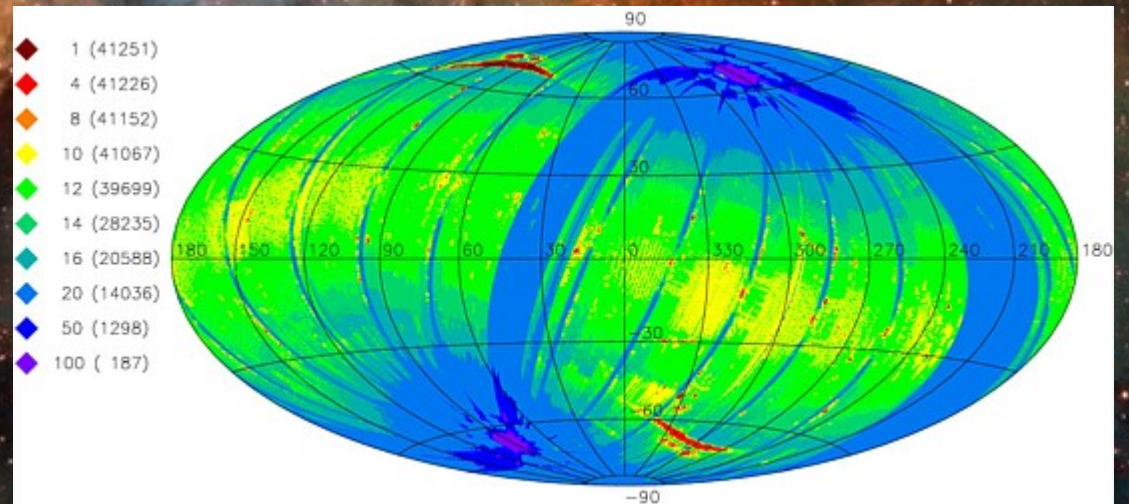
Diámetro: 40 cm

Duración: 2009 – 2011

Campo: 47' × 47'

Bandas: 3.4 μm , 4.6 μm , 12 μm y 22 μm

Resolución: 6" (5 veces menor que Spitzer)



- ◆ 1 (41251)
- ◆ 4 (41226)
- ◆ 8 (41152)
- ◆ 10 (41067)
- ◆ 12 (39699)
- ◆ 14 (28235)
- ◆ 16 (20588)
- ◆ 20 (14036)
- ◆ 50 (1298)
- ◆ 100 (187)

Telescopio WISE

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search radius:

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Preliminary Release

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May 22, 2013

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May 15, 2013

New



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Telescopio WISE

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Wide-field Infrared Survey Explorer (WISE)

Mission Characteristics

Lifetime:	9.5 months + 4 months post-cryo
Wavelength:	3.4, 4.6, 12, and 22 microns
Area Coverage:	All Sky: 100% of the sky 3-Band Cryo: 30% of the sky Preliminary data release: 57% of the sky
Instruments:	Survey Camera
Funding Agency:	NASA
Contributing Institutions:	UCLA, JPL, IPAC/Caltech, UC Berkeley, SDL, BATC
Canonical Papers:	WISE: Wright et al. (2010) NEOWISE: Mainzer et al. (2011) Details on how to acknowledge WISE and NEOWISE are provided in the documentation .



IRSA Services - All-Sky, 3-Band Cryo, and NEOWISE Post-Cryo Releases

Introduction - All-Sky Release	WISE All-Sky Release Intro Page
Introduction - 3-Band Cryo Release	WISE 3-Band Cryo Release Intro Page
Introduction - NEOWISE Post-Cryo Release	NEOWISE Post-Cryo Release Intro Page
WISE Catalog Search	Access WISE catalog and other tabular data

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WISE: Búsqueda

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for NASA's Infrared and Submillimeter Data



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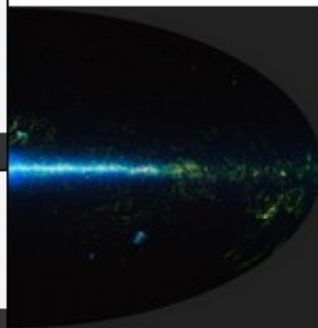
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search radius:

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- Preliminary Release
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All-Sky Survey.

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May 22, 2013

May 15, 2013

New



Finder Chart v2 beta



WISE Image Service




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WISE: Búsqueda



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Position

General

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- [Solar System Object/Orbit](#)

Advanced

- [Scan ID/Frame \(Single Exposure\)](#)
- [Coadd ID \(Atlas\)](#)
- [WISE Source ID](#)

Single Object **Multi-Object**

Name or Position: [Try NED then Simbad](#) ▼

Examples: 'm81' 'ngc 13' '12.34 34.89' '46.53, -0.251 gal'
'19h17m32s 11d58m02s equ j2000' '12.3, 8.5 b1950'

Search Type (Region Intersection): ▼

Return Image Size (leave blank for full images): ▼

Return only the most centered image containing the target: Yes No

Image Set: All-Sky (4 band) 3-Band Cryo Post-Cryo (2 band)

▶ Obsolete preliminary release data

Data Product Level: Atlas Single Exposure

Return the following bands: W1 W2 W3 W4

▶ Optional constraints for Atlas (Level 3) data



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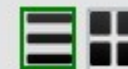
[Catalogs](#)

[Plot Layers](#)

[Background Monitor](#)

► **Position** IRAS 04248+2612; Type=CENTER; Image Size=0.1667 deg; allsky-4band

View Options:



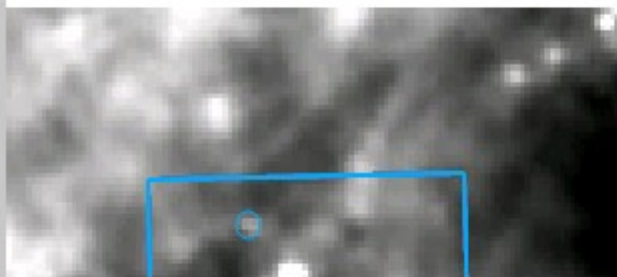
[Coverage](#)

[Multi-Color](#)

[Details](#)

[Atlas \(Level 3\)](#)

IRAS:IRIS 100 2.5x



Prepare Download

1 of 1 (1 - 4 of 4)

as Text

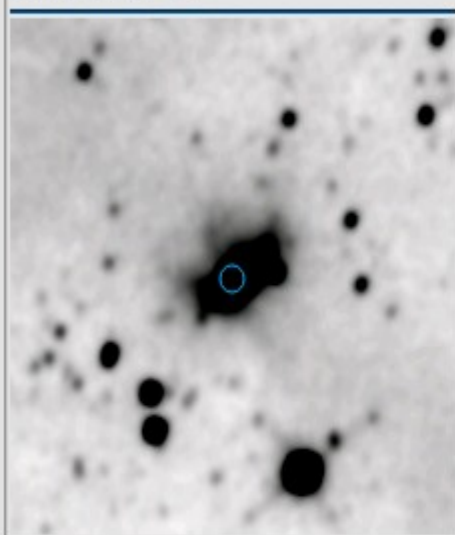
Save

Filters

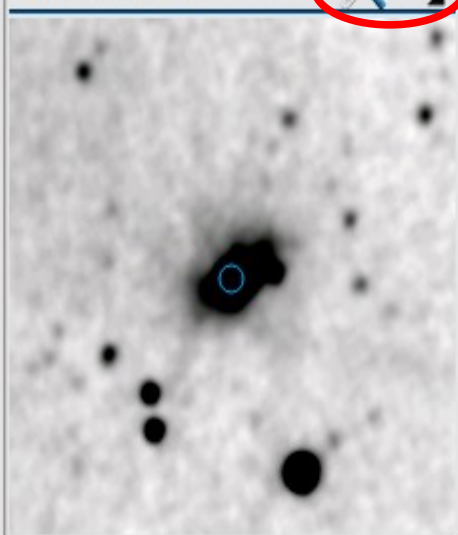


<input type="checkbox"/>	band	coadd_id	date_obs1	mid_obs	date_
<input type="checkbox"/>	1	0666p257_ab41	2010-02-20 09:18:42.040	2010-02-24 00:39:19.120	2010-
<input type="checkbox"/>	2	0666p257_ab41	2010-02-20 09:18:42.040	2010-02-24 08:35:53.311	2010-
<input type="checkbox"/>	3	0666p257_ab41	2010-02-20 09:18:42.040	2010-02-24 10:10:52.348	2010-
<input type="checkbox"/>	4	0666p257_ab41	2010-02-20 09:18:42.040	2010-02-24 08:35:53.311	2010-

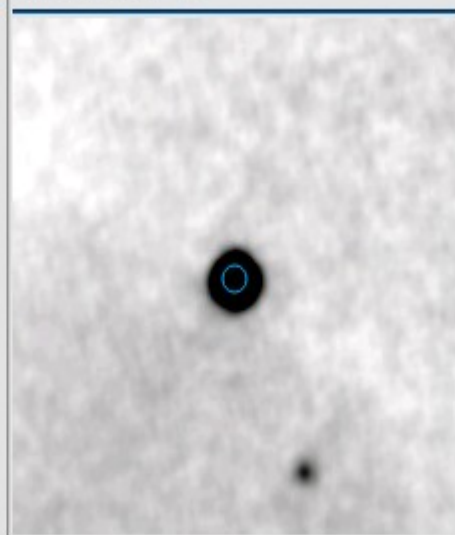
WISE Band 1 1x



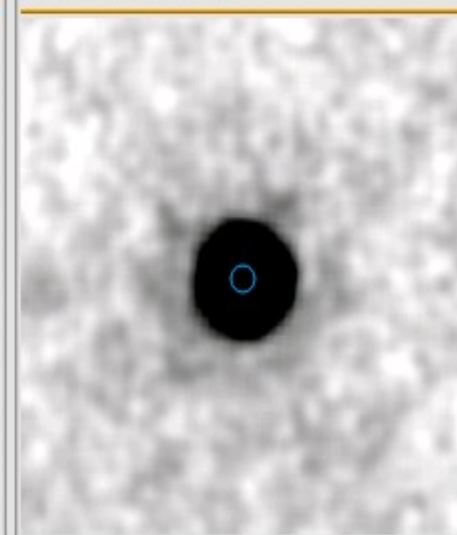
WISE Band 2 1x



WISE Band 3 1x



WISE Band 4 1x



WISE: Barra de Herramientas

The screenshot displays the WISE Science Archive web interface. At the top, the header includes the text "Science Archive" and navigation links for "Data Archives", "Tools & Services", and "Help". A "Guest Login" link is also present. The WISE logo is visible in the top right corner. Below the header, there are buttons for "Plot Layers" and a link for "Background Monitor".

A red-bordered box highlights the toolbar, which contains various icons for image manipulation. The toolbar includes icons for zooming in (+), zooming out (-), and a magnifying glass with a '1' (reset zoom). There are also icons for panning, a color calibration chart, a magnifying glass with a 'Q' (query), a magnifying glass with a 'W' (window), and a question mark. Below the icons, there is a checkbox labeled "Lock images of all bands for zooming, scrolling, etc" which is currently checked.

The main content area shows a star field image labeled "IRAS:IRIS 100" with a magnification of "2.5x". The image is centered on a star, which is circled in blue. Above the image, there are navigation buttons for "WISE Band 4" and "WISE Band 2", and a label for "WISE Band 1" with a magnification of "1x".

On the right side of the image, there is a table with the following data:

mid_obs	do
2010-02-24 00:39:19.120	-
2010-02-24 08:35:53.311	-
2010-02-24 10:10:52.348	-
2010-02-24 08:35:53.311	-

WISE: Barra de Herramientas

The image shows a screenshot of the Science Archive web interface. At the top, the title "Science Archive" is visible, along with a "Guest Login" link. Below the title, there are navigation links for "Data Archives" and "Tools & Services". A toolbar is located at the top left, containing various icons for image manipulation. A color palette is open in the center, showing a wide range of color schemes. A red arrow points from the selected color palette to the right-hand image. The left-hand image is a grayscale astronomical image labeled "WISE Band 1" and "IRAS:IRIS 100 2.5x". The right-hand image is a color astronomical image labeled "WISE Band 1 .773x", showing a star field with several bright stars highlighted by red and white contours. The background of the entire image is a red, fiery texture.

WISE: Barra de Herramientas

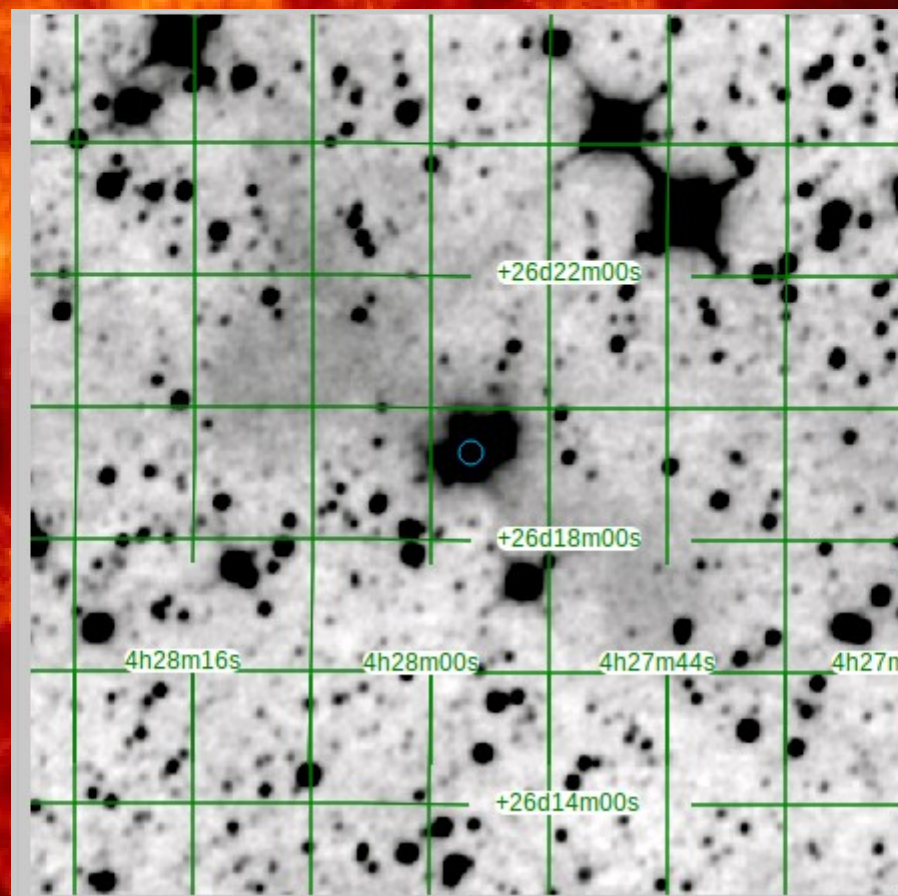


FITS Header: WISE Band 1

Pixel Size: 1.38" File Size: 1.3M

#	Keyword	Value	Comments
0	SIMPLE	T	Created with PDL (http://pdl.perl.com)
1	BITPIX	-32	number of bits per data pixel
2	NAXIS	2	number of data axes
3	NAXIS1	583	length of data axis 1
4	NAXIS2	582	length of data axis 2
5	BUNIT	DN	image pixel units
6	EXTEND	T	FITS dataset may contain extensions
7	CRVAL1	66.667024	RA at CRPIX1,CRPIX2, J2000.0
8	CRVAL2	25.745556	Dec at CRPIX1,CRPIX2, J2000.0
9	EQUINOX	2000.0	Equinox of WCS, (year)
10	CTYPE1	RA--SIN	Projection type for axis 1
11	CTYPE2	DEC--SIN	Projection type for axis 2
12	CRPIX1	1.0470000000000000	Axis 1 reference pixel at CRVAL1
13	CRPIX2	-1.2180000000000000	Axis 2 reference pixel at CRVAL1
14	CDELTA1	-0.000381944439141	Axis 1 scale at CRPIX1,CRPIX2
15	CDELTA2	0.000381944439141	Axis 2 scale at CRPIX1,CRPIX2
16	CRDTA2	0.000000	Image twist: Axis 2 W of N. 1300

Close ?



WISE: Barra de Herramientas

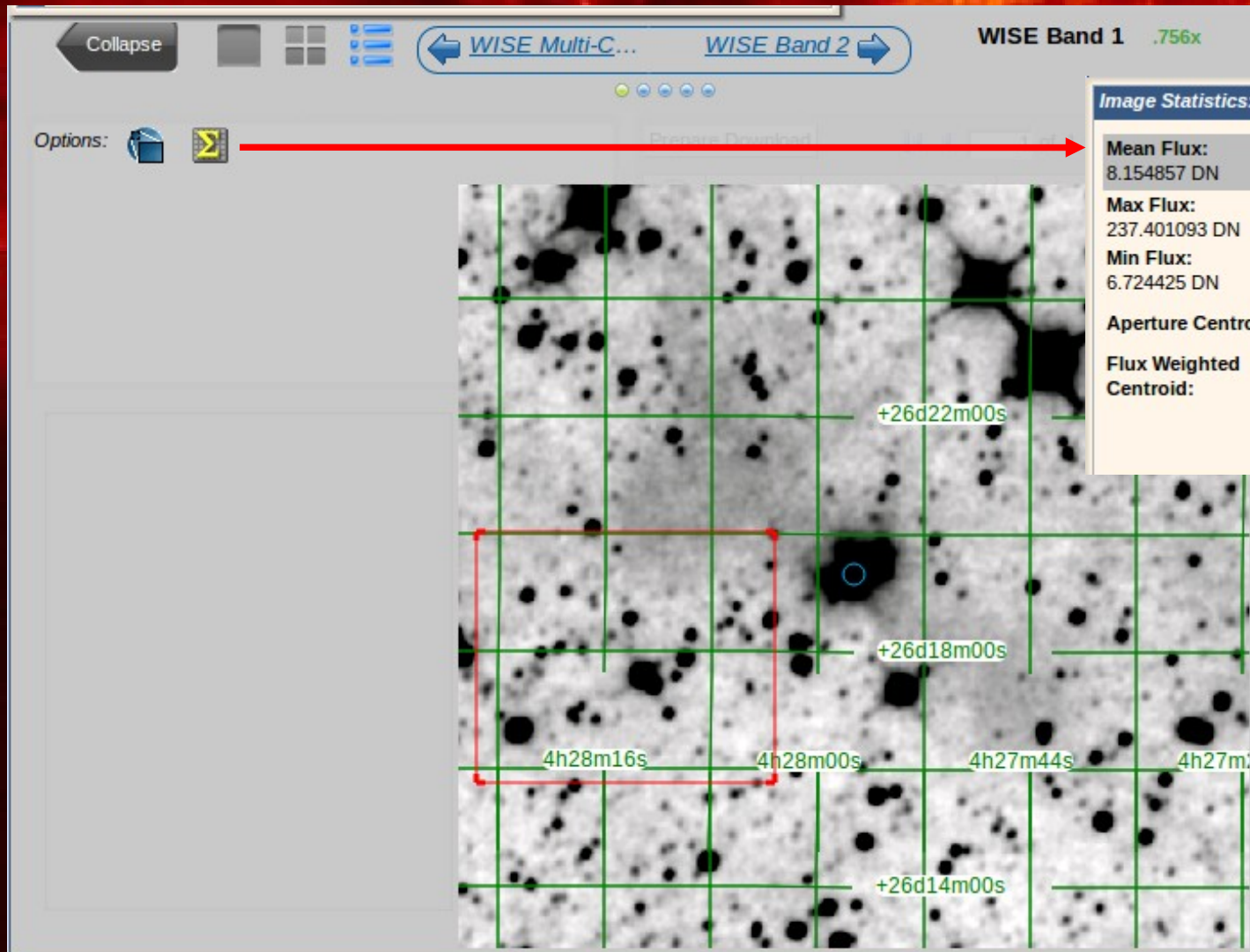
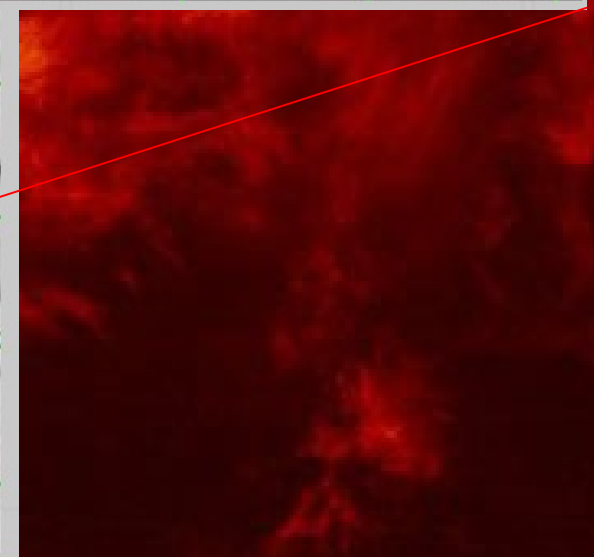
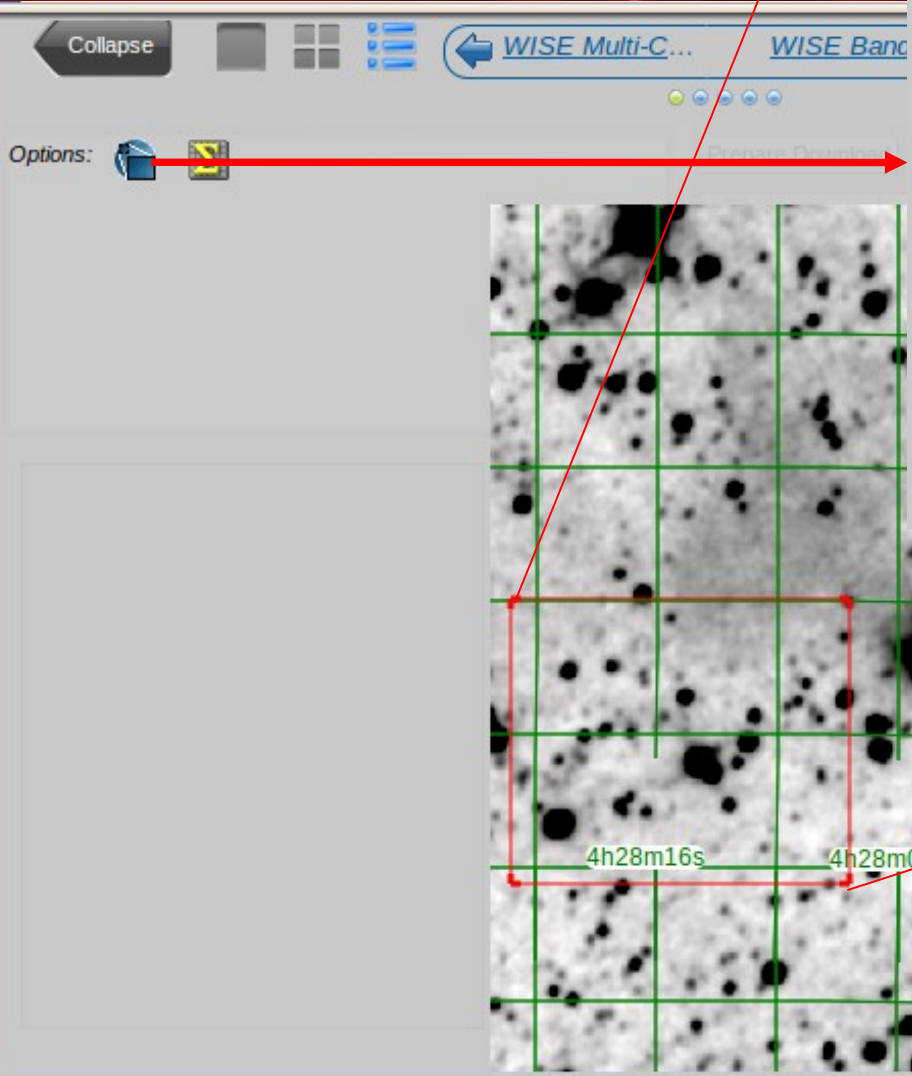
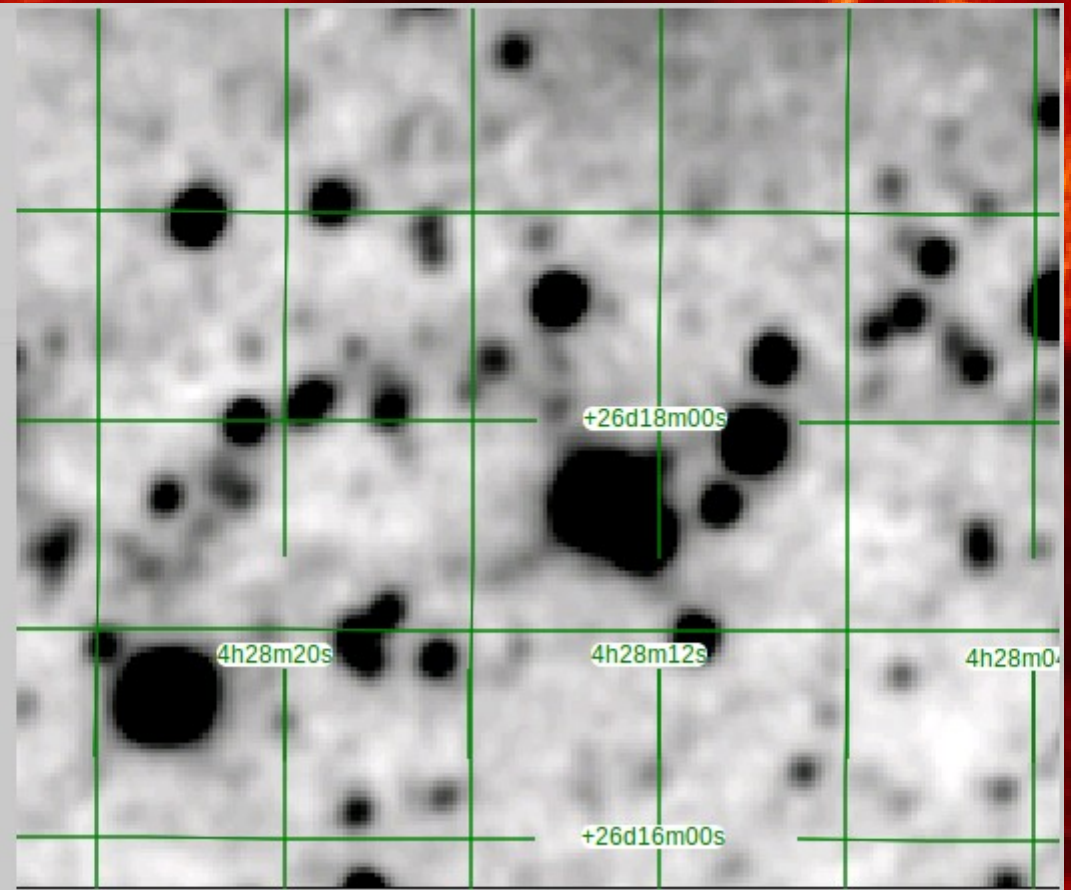
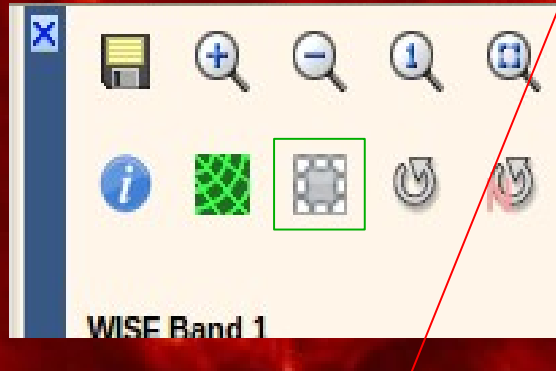


Image Statistics: WISE Band 1

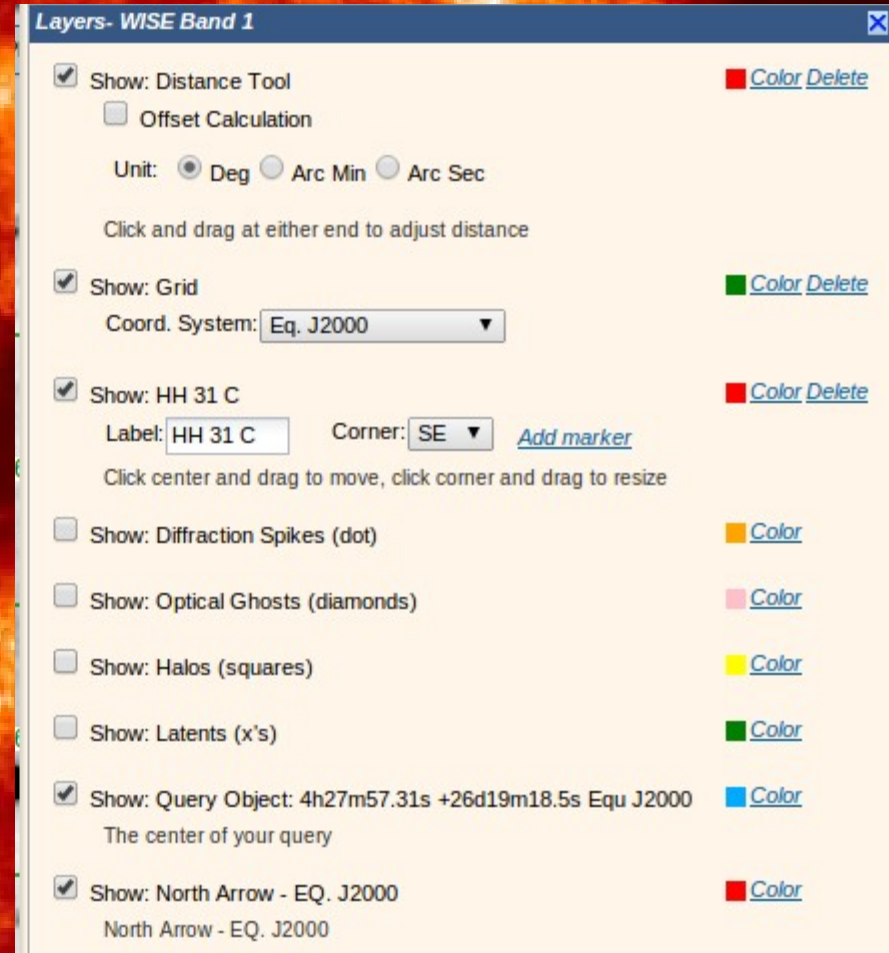
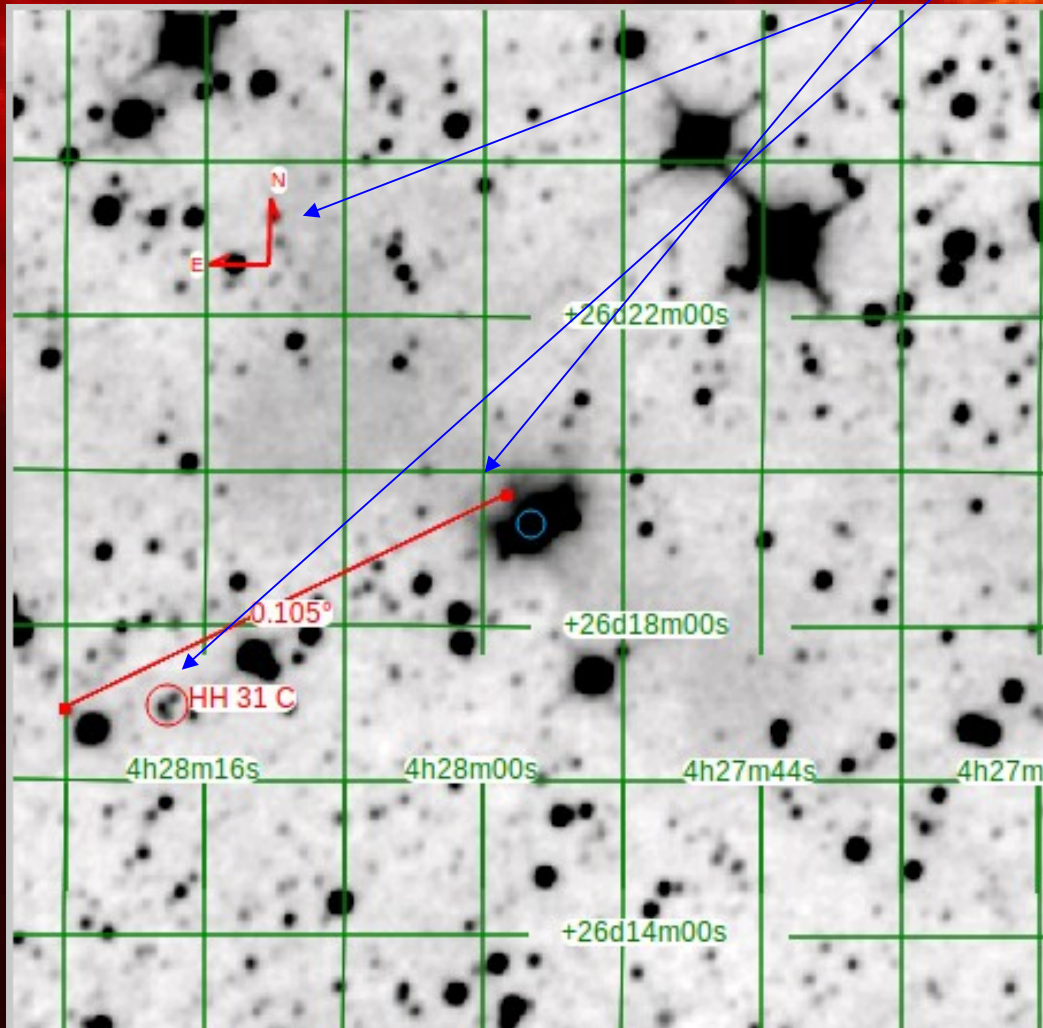
Mean Flux:	Standard Deviation:	Integrated Flux:
8.154857 DN	7.131514 DN	1.474911E-5 DN*STER
Max Flux: 237.401093 DN	Eq-J2000 RA: 4h28m13.23s Eq-J2000 Dec: +26d17m36.7s	X: 135.00000 Y: 217.00000
Min Flux: 6.724425 DN	Eq-J2000 RA: 4h28m05.65s Eq-J2000 Dec: +26d16m25.5s	X: 209.00000 Y: 165.00000
Aperture Centroid:	Eq-J2000 RA: 4h28m14.51s Eq-J2000 Dec: +26d17m54.5s	X: 122.50000 Y: 230.00000
Flux Weighted Centroid:	Eq-J2000 RA: 4h28m14.66s Eq-J2000 Dec: +26d17m52.7s	X: 121.02816 Y: 228.66428

Close

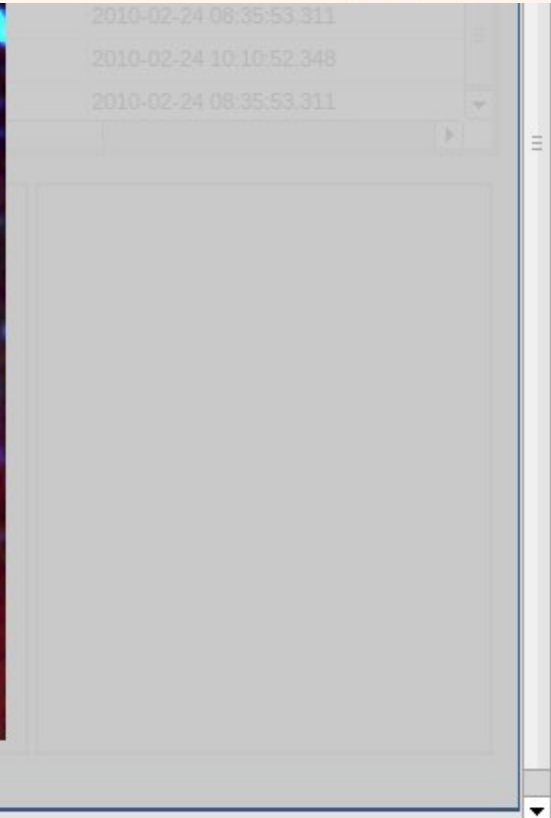
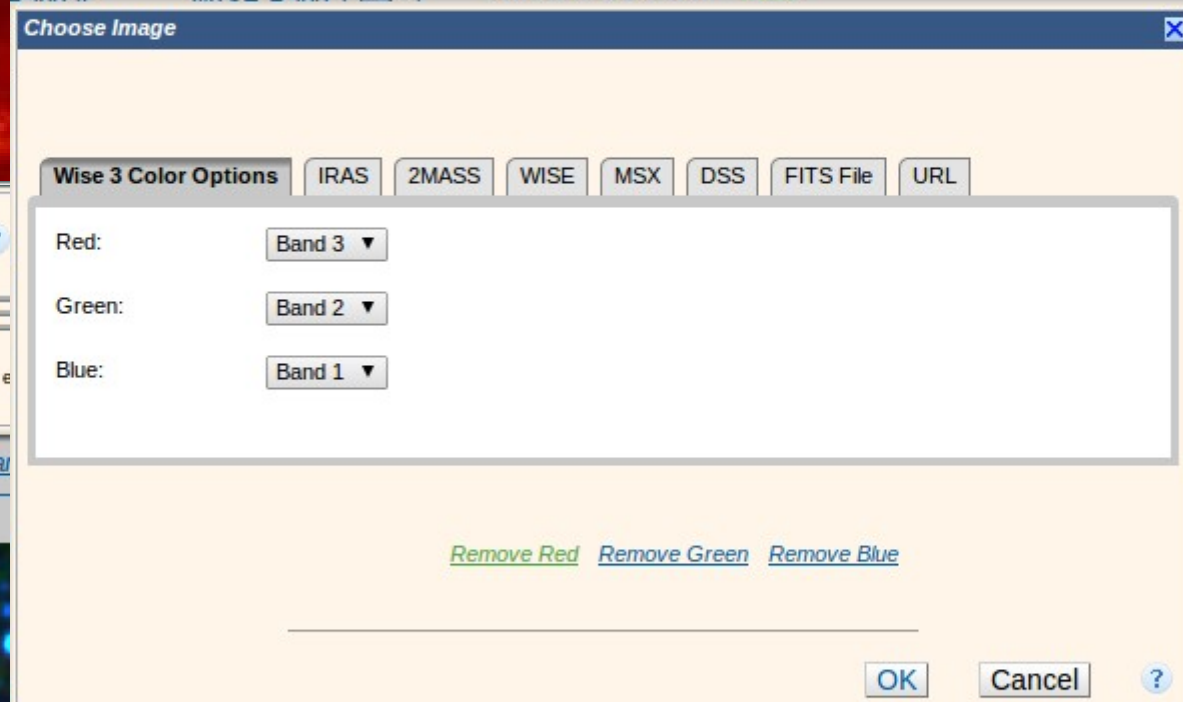
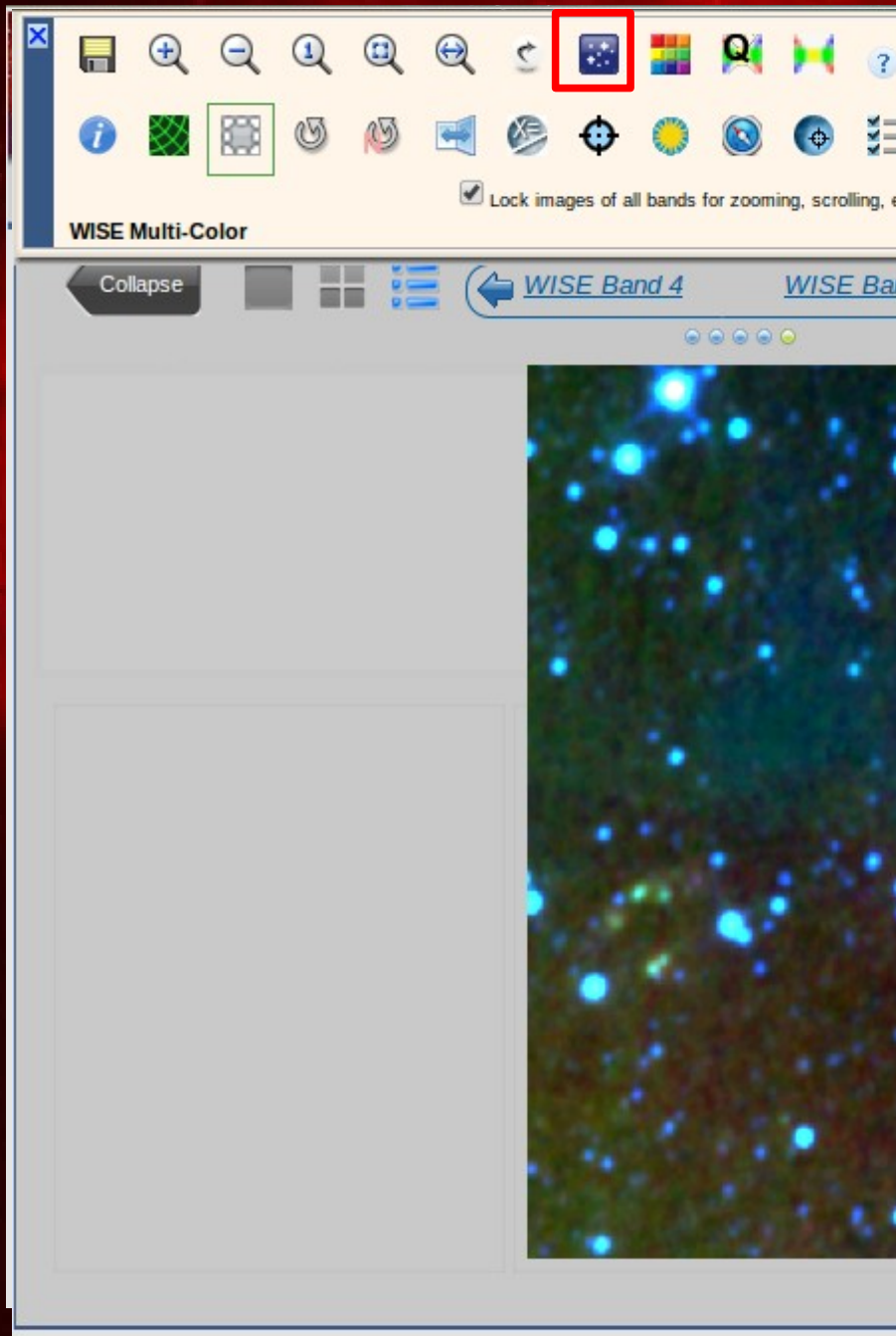
WISE: Barra de Herramientas



WISE: Barra de Herramientas



WISE: Imagen color



WISE: Barra de Herramientas

WISE Multi-Color

1.38"/file pix
Eq-J2000: 4h27m34.65s, +26d25m37.9s
2.65"/screen pix
Eq-J2000: 66.894356, 26.427189
.518x
Gal: 171.669397, -15.374197
Eq-B1950: 4h24m30.52s, +26d18m58.5s
Image Pixel: 513.003311, 566.056291
Red Val:
Green Val:
Blue Val:

Lock By Click

Arrow: Eq. North & East

WISE Band 1 .518x

WISE Band 2 .518x

WISE Band 3 .518x

WISE Band 4 .518x

WISE Multi-Color .518x

4h28m16s 4h28m00s 4h27m44s 4h27m

+26d22m00s

+26d18m00s

C-1/2 0.106°

The screenshot displays the WISE Multi-Color software interface. At the top, there is a toolbar with various icons for zooming, panning, and other navigation functions. Below the toolbar, the main window is divided into five panels, each showing a different WISE band or the multi-color view. The panels are labeled 'WISE Band 1', 'WISE Band 2', 'WISE Band 3', 'WISE Band 4', and 'WISE Multi-Color'. Each panel shows a grid of stars with a central star highlighted by a red circle and a red arrow pointing to it. The arrow is labeled 'C-1/2 0.106°'. The panels also show coordinate information: '4h28m16s 4h28m00s 4h27m44s 4h27m' and '+26d22m00s' and '+26d18m00s'. A 'Collapse' button is visible on the left side of the main window. The background of the entire image is a fiery, orange-red nebula.

WISE: Descarga de imágenes

IRSA NASA / IPAC Infrared Science Archive

IRSA Mission Archive Search Related Data Archives Tools & Services Help

Guest [Login](#) ?

[WISE](#)

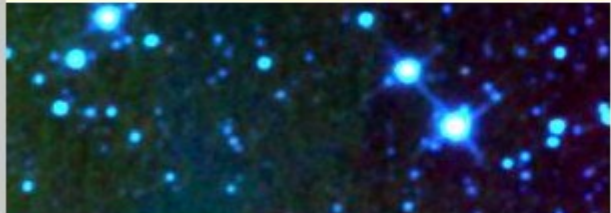
Searches History Preferences Help Catalogs Plot Layers [Background Monitor](#)

► Position IRAS 04248+2612; Type=CENTER; Image Size=0.2222 deg; allsky-4band

View Options:

Coverage Multi-Color Details

WISE Multi-Color .518x

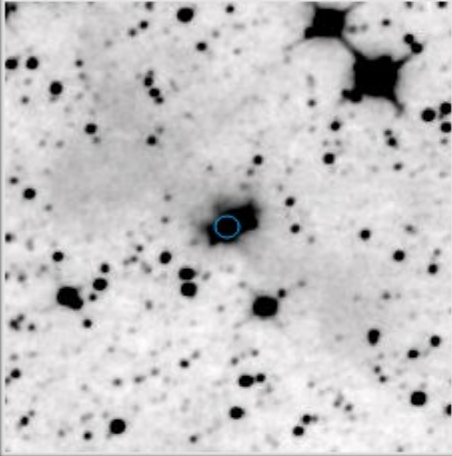


Atlas (Level 3)

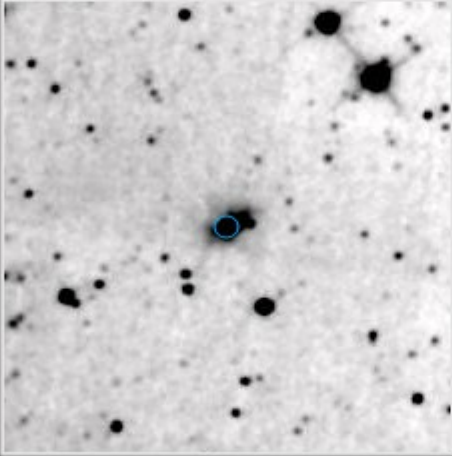
Prepare Download 1 of 1 (1 - 4 of 4) as Text Save Filters

<input checked="" type="checkbox"/>	band	coadd_id	date_obs1	mid_obs	date_
<input checked="" type="checkbox"/>	1	0666p257_ab41	2010-02-20 09:18:42.040	2010-02-24 00:39:19.120	20
<input checked="" type="checkbox"/>	2	0666p257_ab41	2010-02-20 09:18:42.040	2010-02-24 08:35:53.311	20
<input checked="" type="checkbox"/>	3	0666p257_ab41	2010-02-20 09:18:42.040	2010-02-24 10:10:52.348	20
<input checked="" type="checkbox"/>	4	0666p257_ab41	2010-02-20 09:18:42.040	2010-02-24 08:35:53.311	20

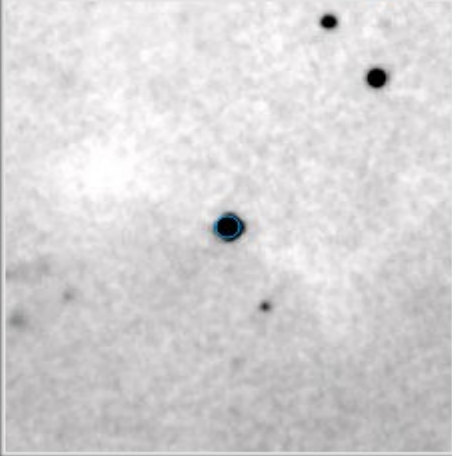
WISE Band 1 .518x



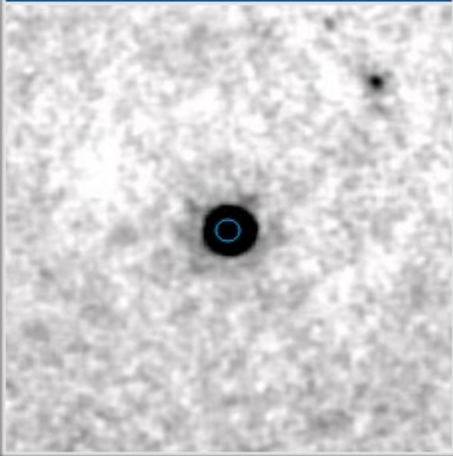
WISE Band 2 .518x



WISE Band 3 .518x



WISE Band 4 .518x



WISE: Descarga de imágenes

The screenshot displays the NASA/IPAC Infrared Science Archive (IRSA) interface. At the top, the header includes the IRSA logo and the text "NASA / IPAC Infrared Science Archive". Navigation links for "IRSA", "Mission", "Archive Search", "Related Data Archives", "Tools & Services", and "Help" are visible. A "Guest Login" button is present in the top right corner. Below the header, the main content area shows the "Position" as "IRAS 04248+2612; Type=CENTER; Image Size=0.2222 deg; allsky-4band". The "View Options" section includes a "Background Monitor" link and a "View Options" button. The "Download Options" dialog box is open, showing the following settings:

- Download All Bands (1-4): Yes No
- Download Ancillary Files: Coverage Uncertainty Diffraction Spikes Halos Optical Ghosts Latents
- Download: Specified Cutouts
- Zip File Structure: Structured (with folders)
- Also send me email with URLs to download
- Email:

The dialog box has "Prepare Download" and "Cancel" buttons. The background shows a multi-color WISE image and a grid of grayscale WISE band images.

WISE: Descarga de imágenes

IRSA NASA / IPAC Infrared Science Archive

Guest [Login](#) ?

IRSA NASA / IPAC Infrared Science Archive

Guest [Login](#) ?

IRSA Mission Archive Search Related Data Archives Tools & Services Help

Searches History Pr

Position IRAS 04248+2612; Type=

Coverage Multi-Color Details

WISE Multi-Color .518x

Background Monitor

WISE Position Search 1 [Download Now](#) 188.0 MB

Hide ? No Email Set [Add Email...](#)

View Options: [Grid Icon] [List Icon]

as Text Save Filters [Grid Icon]

mid_obs	date_
2010-02-24 00:39:19.120	20
2010-02-24 08:35:53.311	20
2010-02-24 10:10:52.348	20
2010-02-24 08:35:53.311	20

WISE Band 1 .518x

WISE Band 4 .518x

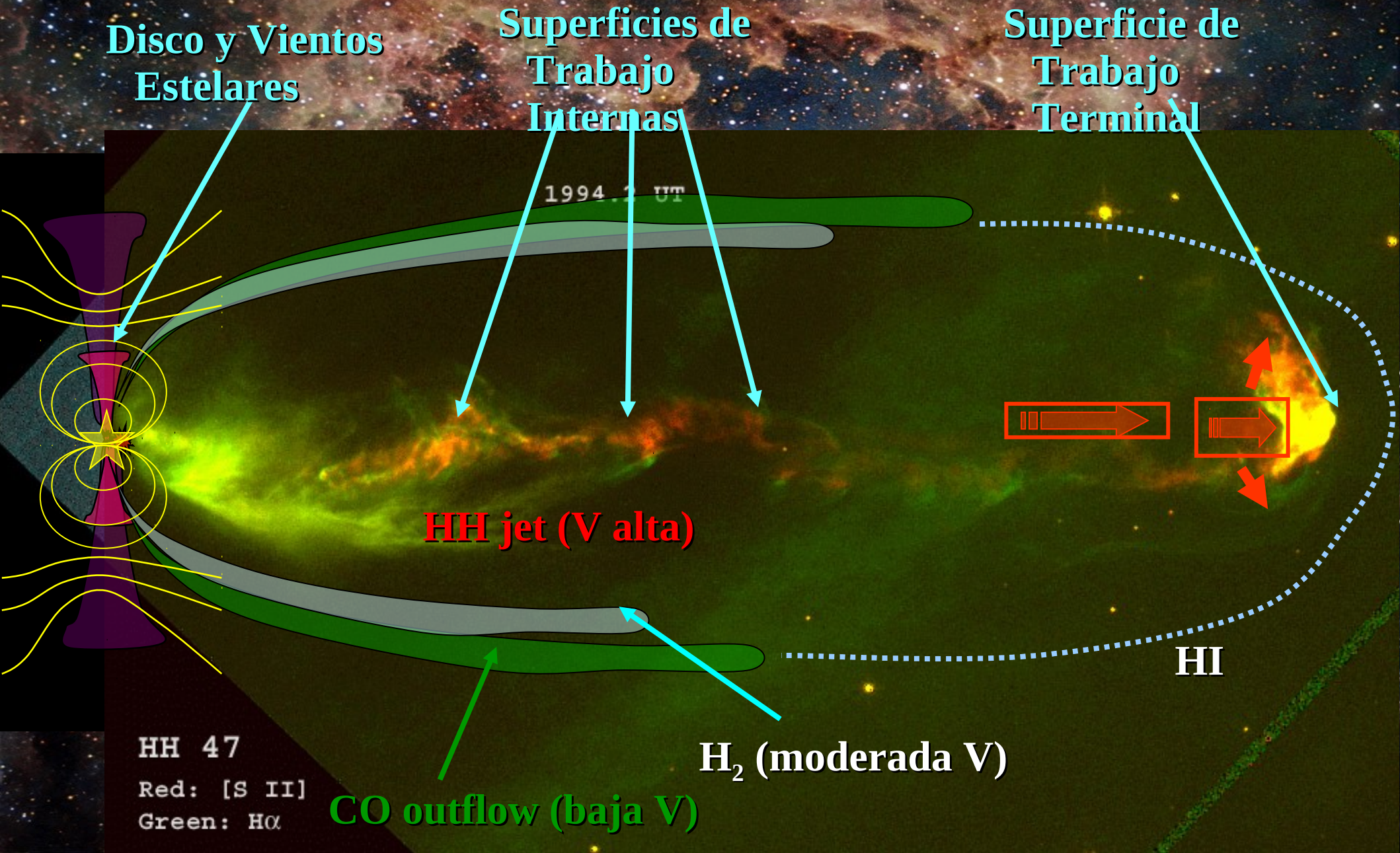
irsa.ipac.caltech.edu

wise Task Completed
Packaging Task, WISE Position Search 1 has completed.

Resultados con WISE

- VLA 1623
- IRAS 04248+2612 y su jet asociado HH 31

Modelo Unificado: Outflows y Jets



EGO's (Extended Green Objects): Bandas de Spitzer/ IRAC

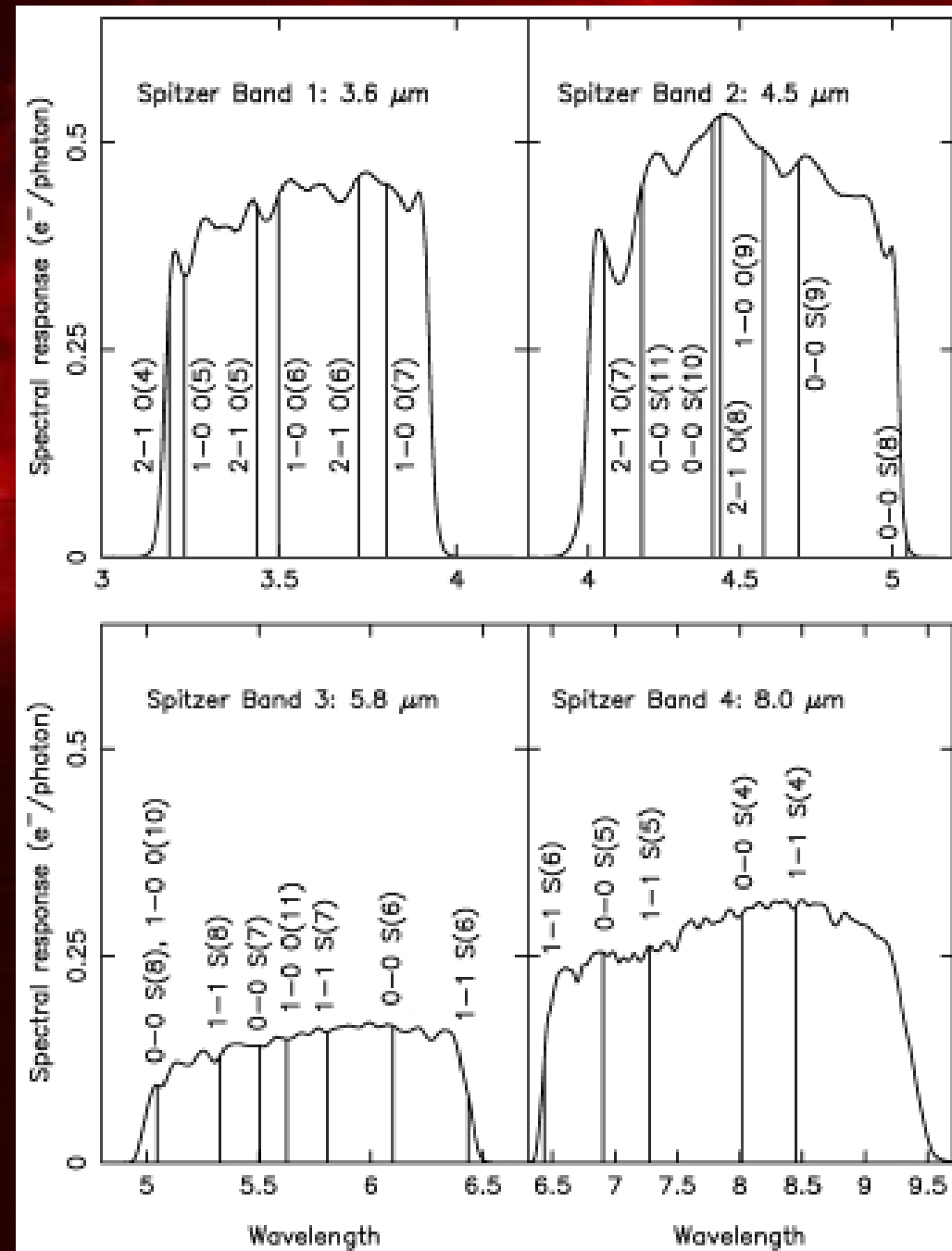


Imagen color:

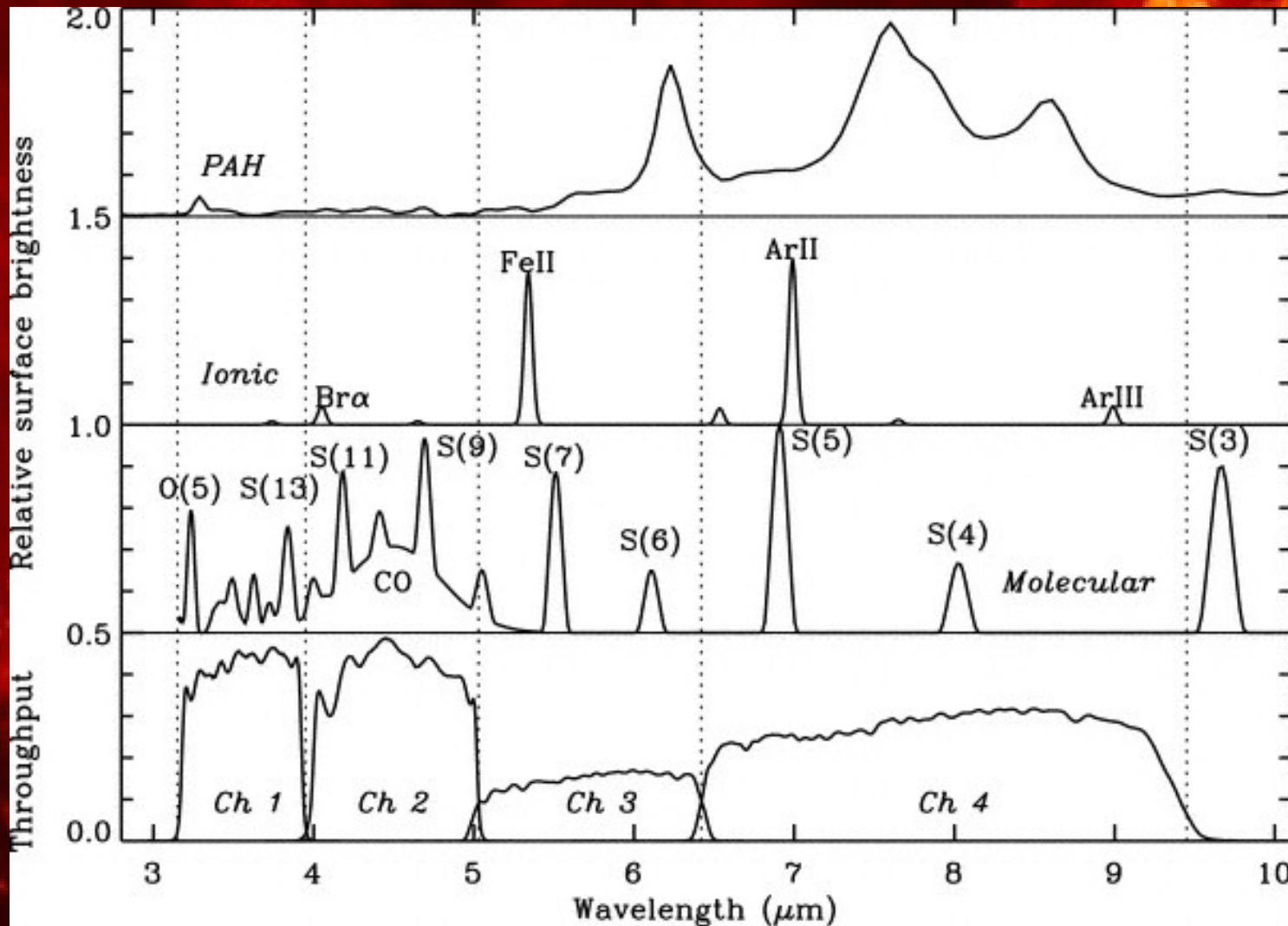
[3.6] μm → AZUL

[4.5] μm → VERDE

[8.0] μm → ROJO

Smith & Rosen (2005)
Reach et al. (2006)

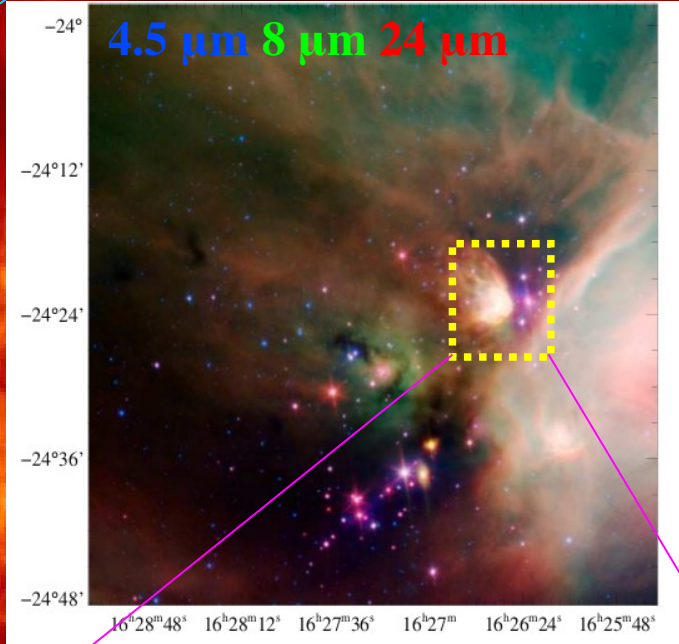
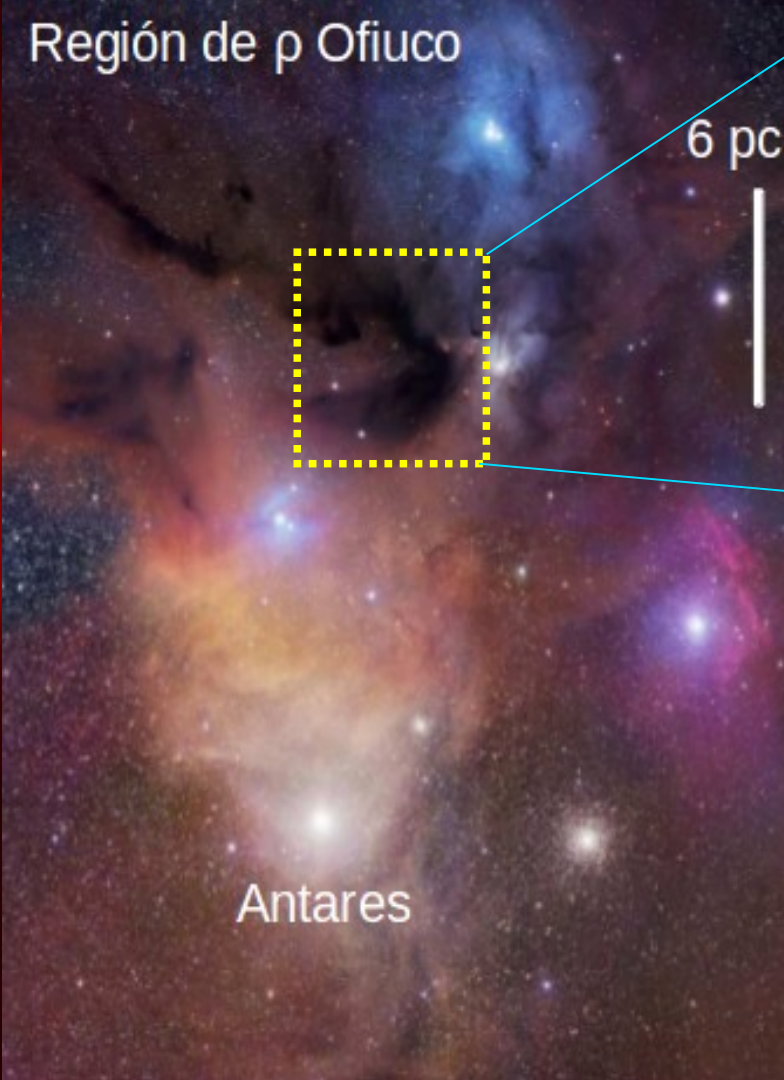
EGO's (Extended Green Objects): Bandas de Spitzer/ IRAC



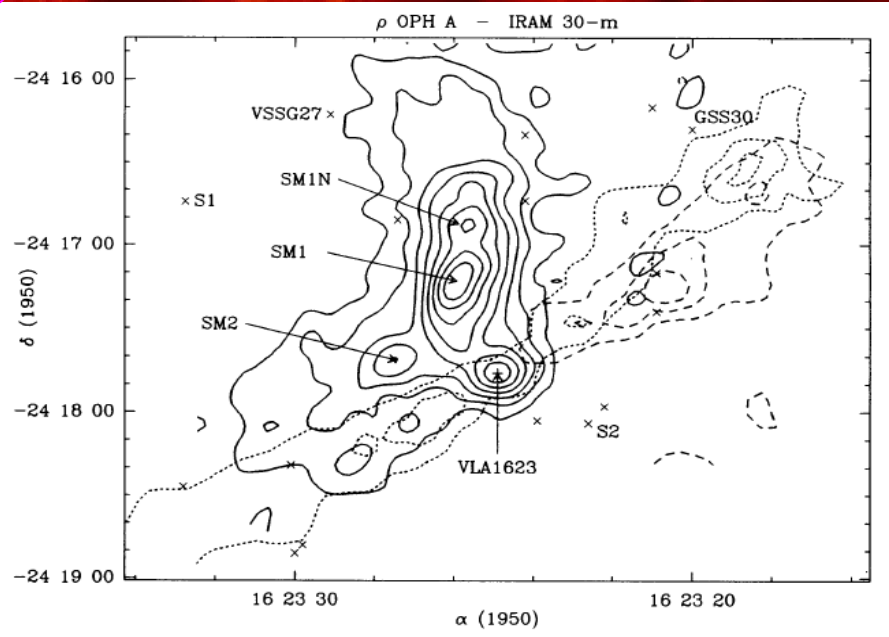
Smith & Rosen (2005)
Reach et al. (2006)

VLA 1623: Constelación de Escorpio

Sub-nube L1688



ρ Oph A



Wilking et al. (2008)

André et al. (1993)

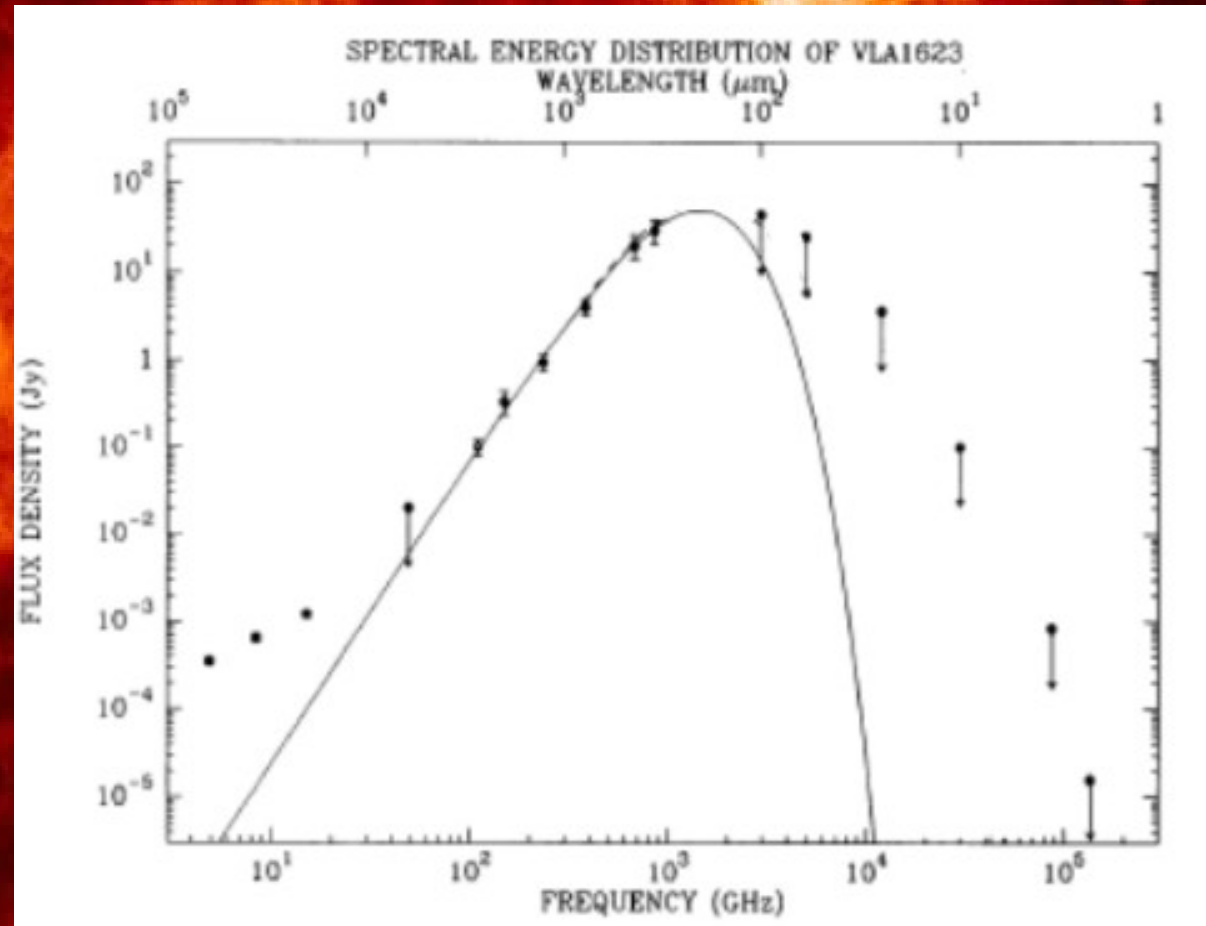
VLA 1623

- ▶ Proro-estrella de Clase 0.
- ▶ Edad $\sim 2 \times 10^4$ años.
- ▶ $M_{\text{envoltura}} \sim 0.6 M_{\odot}$.
- ▶ Envoltura presenta una morfología esférica en vez de un disco.
- ▶ $T_{\text{polvo}} \lesssim 20$ K.
- ▶ $L_{\text{bol}} \sim 1 L_{\odot}$.

Cuerpo negro a 20 K ←

Pico de emisión en 1.3 mm ←

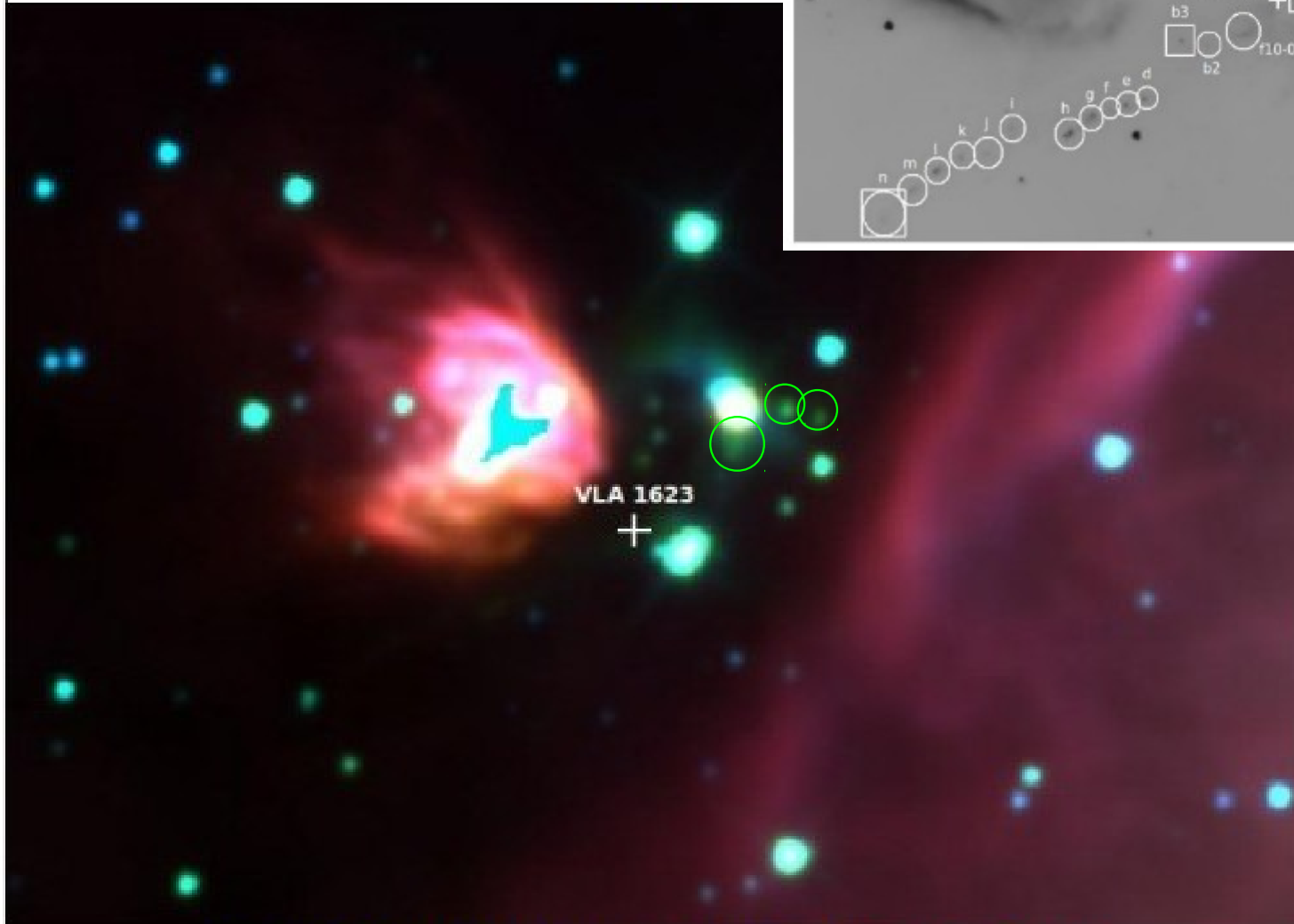
Fuente asociada con un jet infrarrojo y un “outflow” en CO.



André et al. (1993)

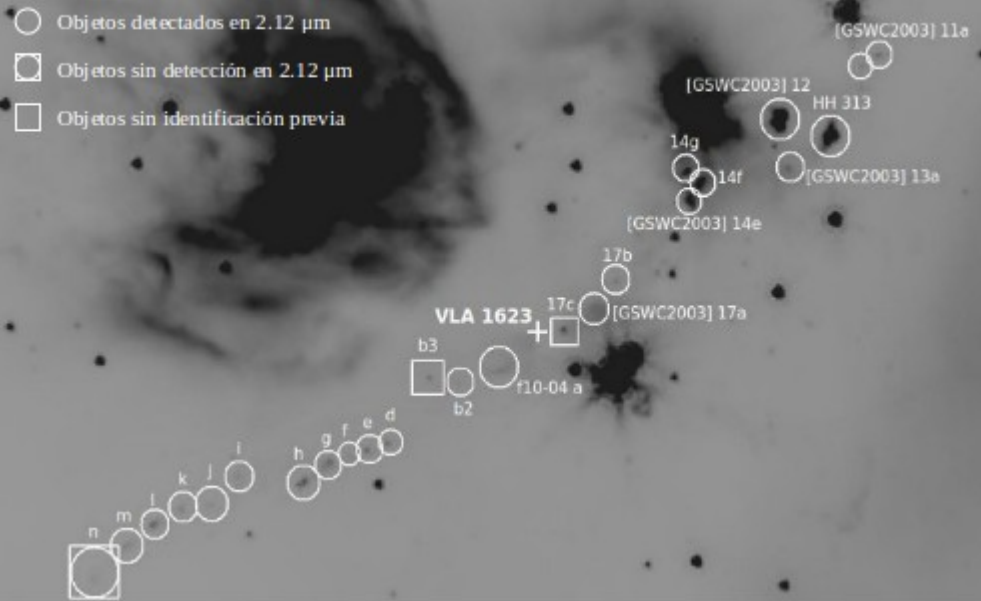
VLA 1623 con WISE

WISE



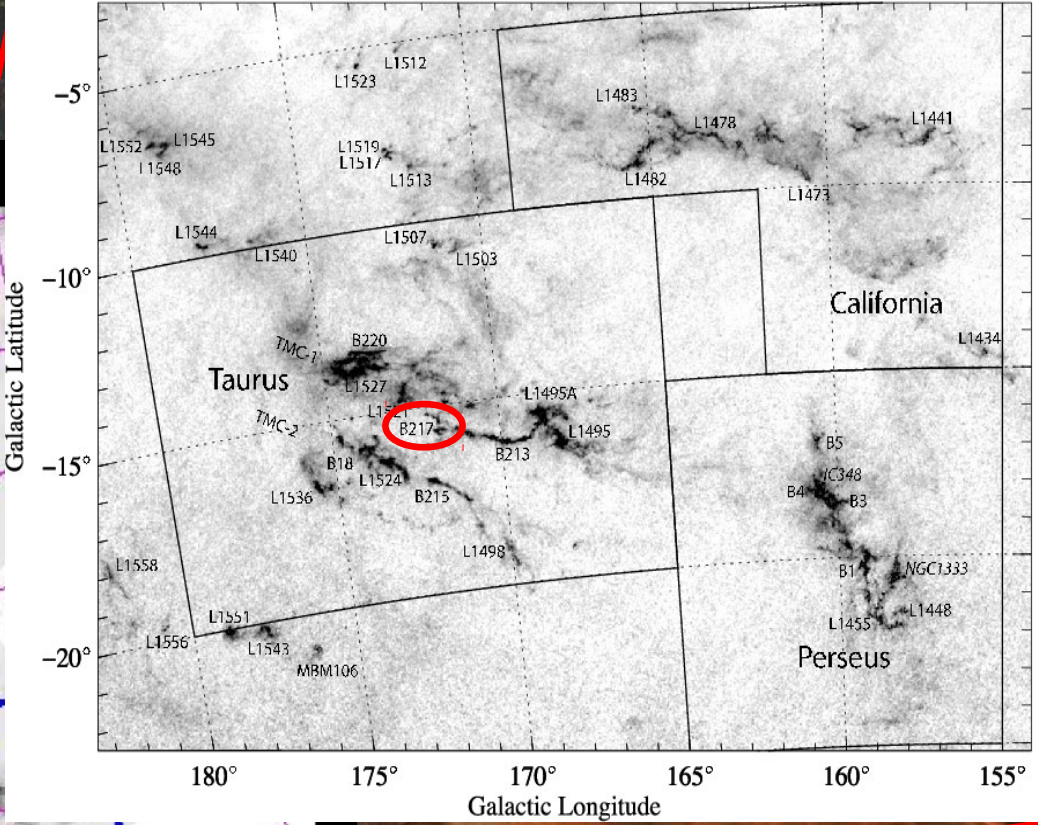
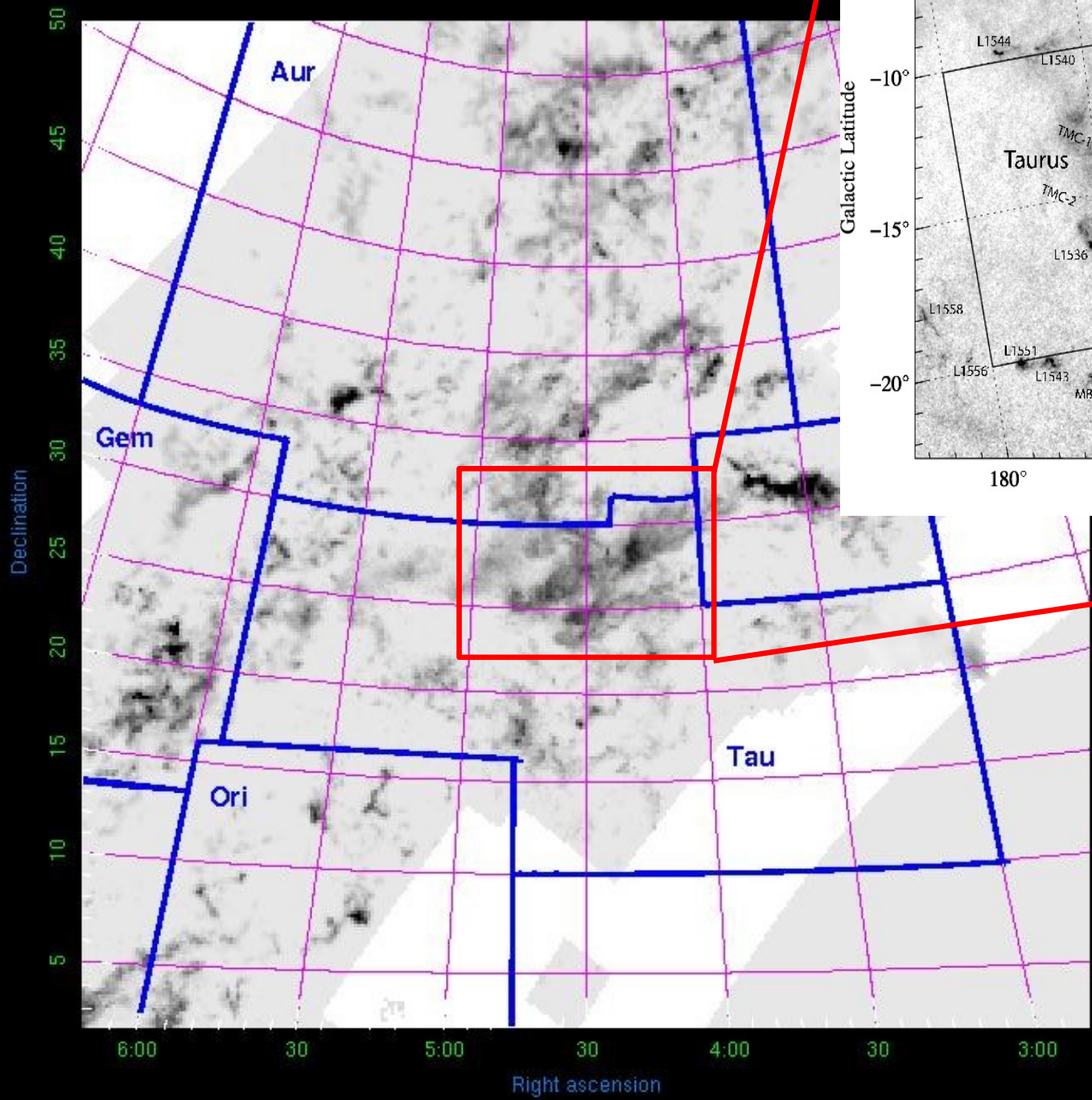
Azul = 3.4 μm ; Verde = 4.6 μm ; Rojo = 12 μm

IRAC 2



0.03 pc

HH 31: Constelación de Taurus



$D = 140 \text{ pc}$
 $\text{Área} = 100^\circ \times 100^\circ$

- Kenyon et al. (1994)
- Davis et al. (2010)
- Pineda et al. (2010)

IRAS 04248+2612

Protoestrella de Clase I

T.E. = $M_{5.5} \pm 1$

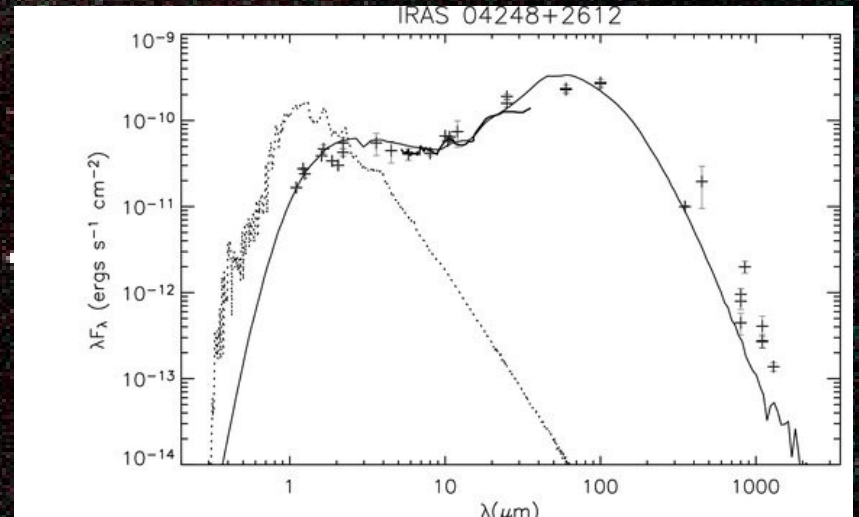
$I_{\text{óptico}} = 0.2 \text{ pc}$

$M_* = 0.07 M_{\odot}$

$M_{\text{env}} = 0.25 M_{\odot}$

$\dot{M}_{\text{out}} \sim 7.75 \times 10^{-10} M_{\odot} \text{ yr}^{-1}$

[SII]



Gómez et al. (1999)

IRAS 04248+2612

1.1 μm
1.6 μm
2.05 μm

A

B

2"
280 UA



Protoestrella de Clase I

T.E. = $M_{5.5} \pm 1$

$l_{\text{óptico}} = 0.2 \text{ pc}$

$M_* = 0.07 M_{\odot}$

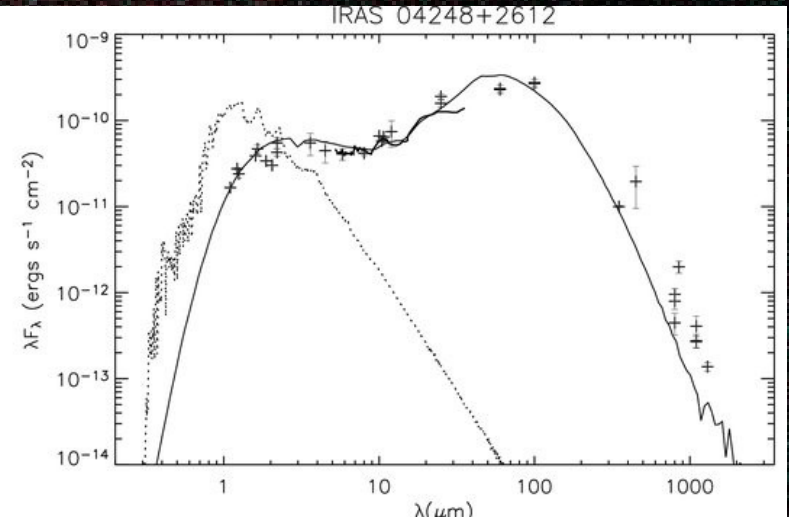
$M_{\text{env}} = 0.25 M_{\odot}$

$\dot{M}_{\text{out}} \sim 7.75 \times 10^{-10} M_{\odot} \text{ yr}^{-1}$

Binaridad (Padgett et al. 1999)

$d_{\text{ab}} = 0.16'' \sim 25 \text{ UA}$

Gómez et al. (1999)

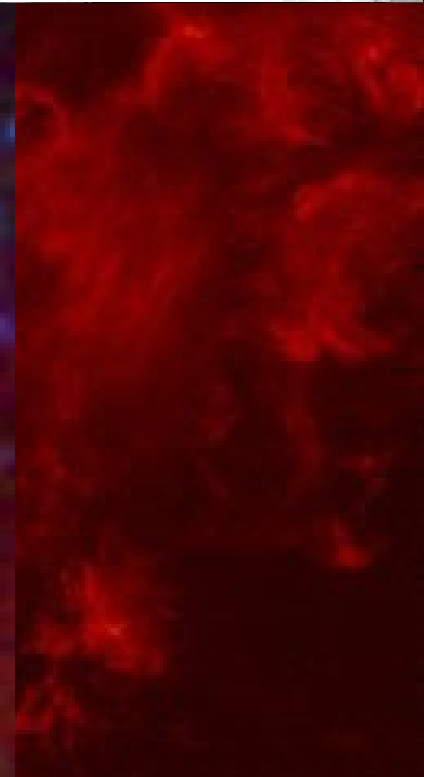
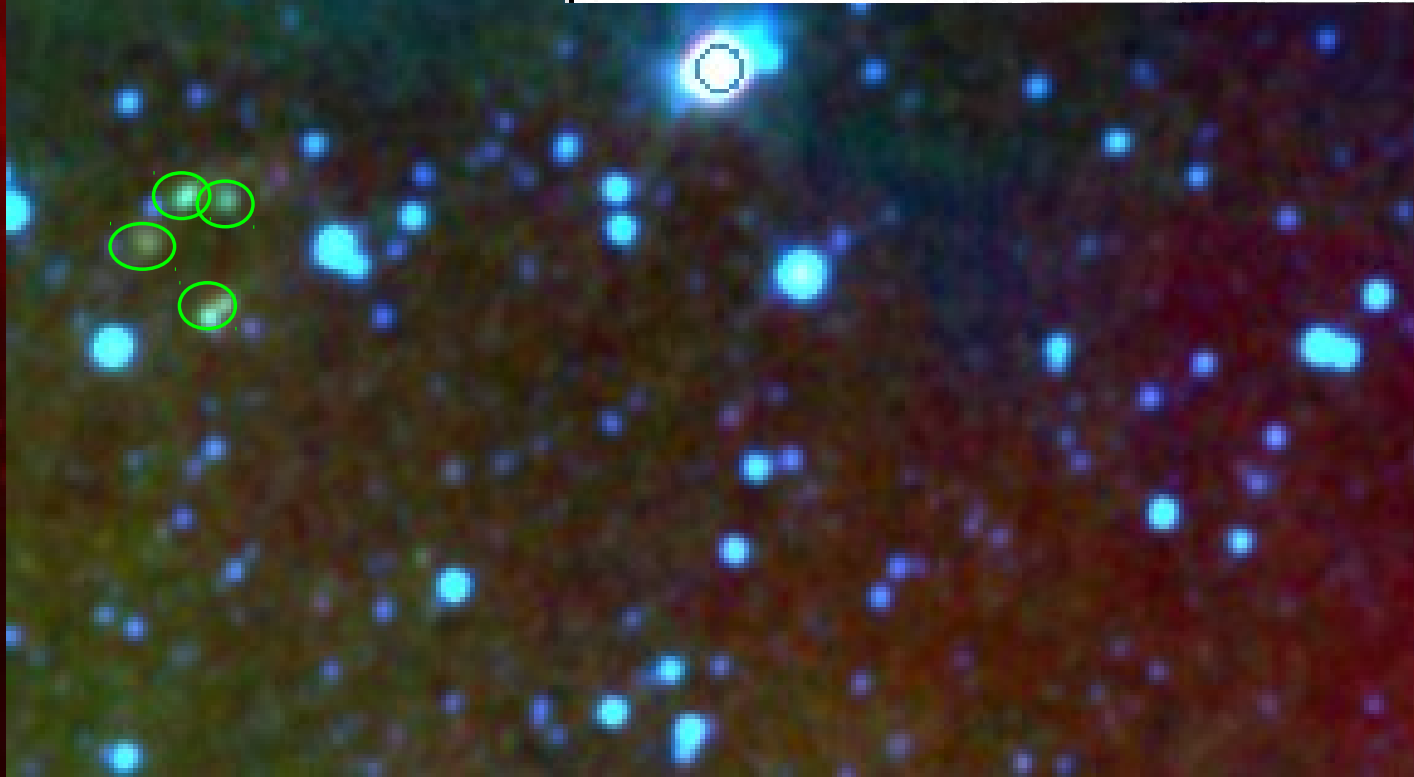
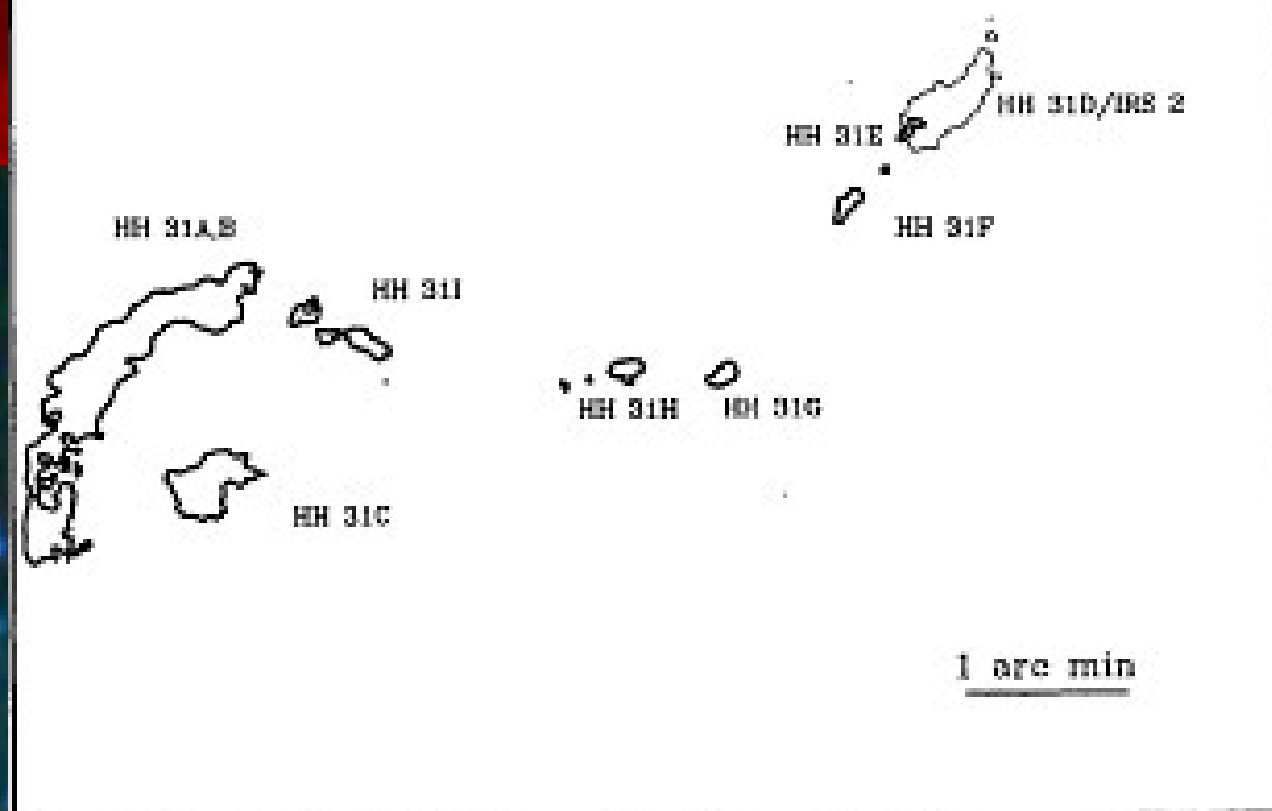
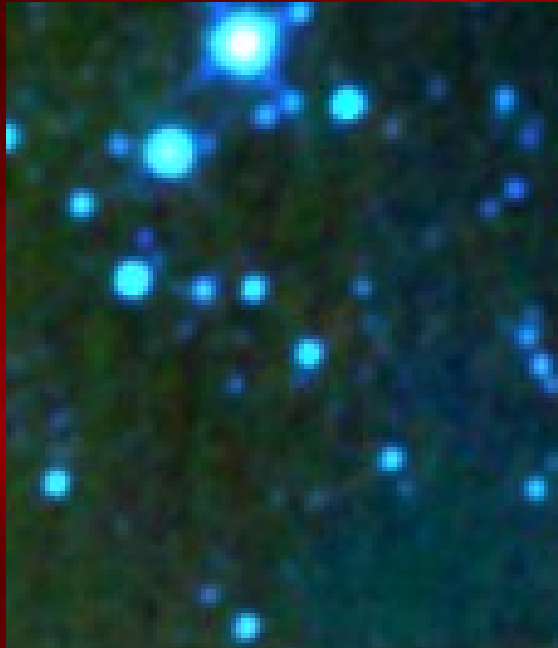


HH 31 con WISE

3.4 μm

4.6 μm

12 μm



Conclusiones

- La base de datos del IRSA es de gran utilidad para el estudio de objetos en el infrarrojo y en el sub-milimétrico, ya que cuenta con datos e imágenes de diversas misiones y programas científicos.
- La utilización de esta base de datos, así como la descarga de imágenes, es fácil.
- Es posible trabajar de manera “on line”, mediante herramientas brindadas por el sitio web.
- El WISE presenta una baja resolución (5 veces menor a la del Spitzer), sin embargo, tiene la ventaja de haber explorado todo el cielo.
- No obstante, no se encontraron nuevas estructuras en estos jets. Solo se pudieron reconocer los nodos más brillantes de ambos jets



***¡¡Muchas gracias
por su amable
atención!!***

"The truth is out there" (Chris Carter)