

Dear VOSA users,

The VOSA team is pleased to announce that the Gaia Data Release #1 is already available from VOSA.

Gaia DR1 information can be accessed at the following steps of the VOSA workflow:

- Tag “Objects / Distances”: VOSA now offers the possibility of estimating distances by using the parallax information available at Gaia DR1 / TGAS (figure 1).
- Tag “VO Photometry”: Gaia DR1, containing positions (RA,DEC) and G magnitudes for all sources observed between 25 July 2014 and 16 September 2015 (1142679769 sources), is now available from the list of VOSA catalogues (figure 2) and G magnitudes can be used to build the Spectral Energy Distribution (figure 3).

Best regards,

The VOSA team.

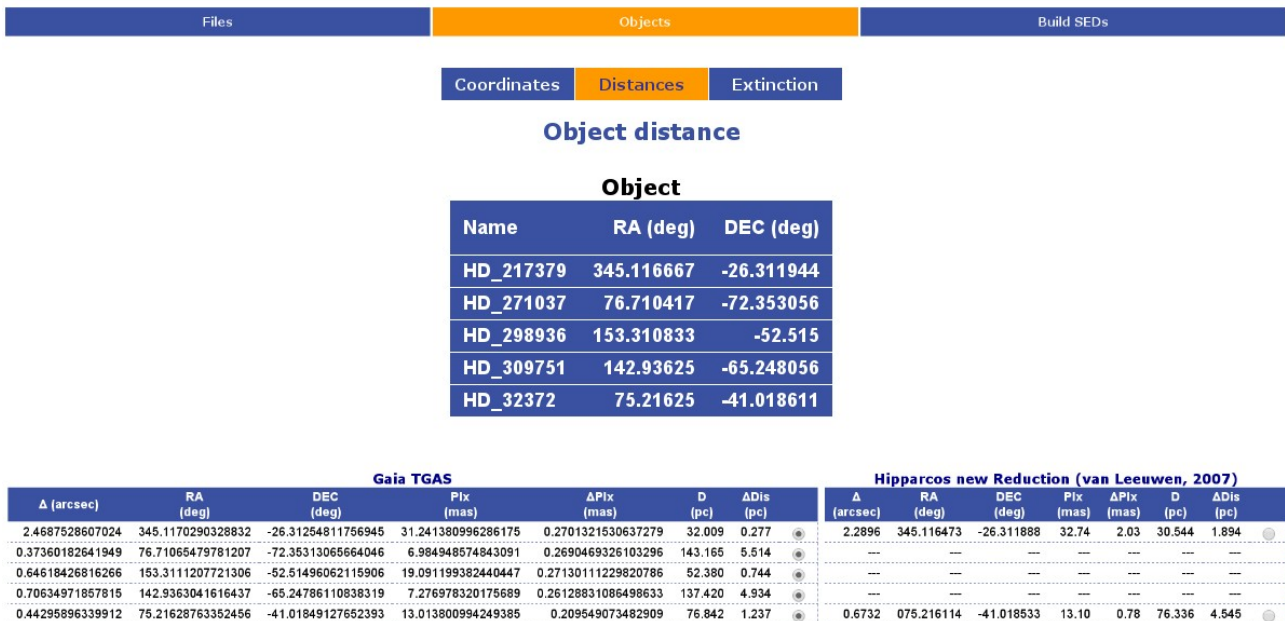
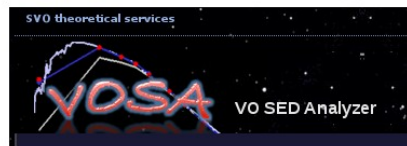


Figure 1. Distance estimation using Gaia DR1 / TGAS.

VO photometry

This option allows you to increase the wavelength coverage of the SEDs of your objects adding photometry from VO catalogues.

Take a look to the corresponding [Help Section](#) and [Credits Page](#) for more information.

First select the VO services that you want to use

Optical

<p><input checked="" type="checkbox"/> Tycho-2 Catalogue <i>The Tycho-2 Catalogue is an astrometric reference catalogue containing positions and proper motions as well as two-colour photometric data for the 2.5 million brightest stars in the sky..</i> More Info. Filters: <input checked="" type="checkbox"/> TYCHO/TYCHO.B <input checked="" type="checkbox"/> TYCHO/TYCHO.V Search radius: <input type="text" value="5"/> arcsec <input type="button" value="Show magnitude limits"/></p>	<p><input checked="" type="checkbox"/> Stromgren uvby-beta Catalogue (Hauck+ 1997) <i>This catalogue is an updated version of the one published in 1990 (Hauck and Hermlind, 1990) and contains data for more than 63,300 stars in the Galaxy and Magellanic Clouds.</i> More Info. Filters: <input checked="" type="checkbox"/> Generic/Stromgren.u <input checked="" type="checkbox"/> Generic/Stromgren.v <input checked="" type="checkbox"/> Generic/Stromgren.b <input checked="" type="checkbox"/> Generic/Stromgren.y Search radius: <input type="text" value="5"/> arcsec <input type="button" value="Show magnitude limits"/></p>
<p><input checked="" type="checkbox"/> Homogeneous Means in the UVB System (Merrilliod 1991) <i>The present catalog supersedes an earlier edition of Ilicoleit (1978). It is a collection of weighted mean photoelectric values (V, B-V, U-B) for stars measured in the UVB system..</i> More Info. Filters: <input checked="" type="checkbox"/> Generic/Johnson.U <input checked="" type="checkbox"/> Generic/Johnson.B <input checked="" type="checkbox"/> Generic/Johnson.V Search radius: <input type="text" value="5"/> arcsec <input type="button" value="Show magnitude limits"/></p>	<p><input checked="" type="checkbox"/> SDSS Catalogue, Release 9 <i>The SDSS Photometric Catalog, Release 9..</i> More Info. The search is restricted to class 6 (star) objects. Filters: <input checked="" type="checkbox"/> SLOAN/SDSS.u <input checked="" type="checkbox"/> SLOAN/SDSS.g <input checked="" type="checkbox"/> SLOAN/SDSS.r <input checked="" type="checkbox"/> SLOAN/SDSS.i <input checked="" type="checkbox"/> SLOAN/SDSS.z Search radius: <input type="text" value="5"/> arcsec <input type="button" value="Show magnitude limits"/></p>
<p><input checked="" type="checkbox"/> ALHAMBRA gold <i>The ALHAMBRA (Advance Large Homogeneous Area Medium Band Redshift Astronomical) survey (Moles et al. 2008) has observed 8 different regions of the sky, including sections of the COSMOS, DEEP2, ELAIS, GOODS-N, SDSS and Groth fields using a new photometric system with 20 contiguous, non-overlapping, equal width (~300Å) filters. In VOSA only objects with stellar_flag=0.6 will be selected..</i> Filters: <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F355W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F396W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F427W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F458W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F489W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F520W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F551W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F527W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F613W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F644W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F675W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F706W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F737W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F769W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F799W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F830W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F861W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F892W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F923W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.F954W <input checked="" type="checkbox"/> CAHA/ALHAMBRA.J <input checked="" type="checkbox"/> CAHA/ALHAMBRA.H <input checked="" type="checkbox"/> CAHA/ALHAMBRA.Ks Search radius: <input type="text" value="5"/> arcsec <input type="button" value="Show magnitude limits"/></p>	<p><input checked="" type="checkbox"/> APASS 9 <i>APASS: The AAVSO Photometric All-Sky Survey - Data Release 9.</i> More Info. Warning: we are still testing this catalog implementation. Filters: <input checked="" type="checkbox"/> Misc/APASS.B <input checked="" type="checkbox"/> Misc/APASS.V <input checked="" type="checkbox"/> Misc/APASS.sdss_g <input checked="" type="checkbox"/> Misc/APASS.sdss_r <input checked="" type="checkbox"/> Misc/APASS.sdss_i Search radius: <input type="text" value="5"/> arcsec <input type="button" value="Show magnitude limits"/></p>
<p><input checked="" type="checkbox"/> GAIA DR1 <i>Gaia DR1 contains positions (RA,DEC) and G magnitudes for all sources observed between 25 July 2014 and 16 September 2015 (1142679769 sources).</i> More Info. Filters: <input checked="" type="checkbox"/> GAIA/GAIA.G Search radius: <input type="text" value="5"/> arcsec <input type="button" value="Show magnitude limits"/></p>	



Figure 2. Gaia DR1 available from the list of VOSA catalogues.

VO Photometry SED edit/visualize

Object data

See object: TYC_8083-455-1 [excess](#) [See all](#)

<Prev | Next >

TYC_8083-455-1
 Position: (72.002917,-50.690556) Distance: 57.67012687427913 pc
 Data for this object:
[Send final SED to SAMP Hub](#)

Filter	λ_{med}	Observed		Dereddened		Point Opts					Actions		Info			
		Obs.Flux	Δ Obs.Flux	Flux	Δ Flux	In SED	NoFit	Uplim	Bad	Ignore	Delete	Source	RA (VO)	DEC (VO)	Δ (VO)	Nobjs
GALEX/GALEX.FUV	1542.26	1.978e-16	4.932e-17	1.978e-16	4.932e-17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User					
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TYCHO/TYCHO.B	4280.00	2.899e-14	8.437e-15	2.899e-14	8.437e-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User					
TYCHO/TYCHO.V	5340.00	8.081e-14	9.155e-15	8.081e-14	9.155e-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User					
GAIA/GAIA.G	5857.56	1.030e-13	0.000e+00	1.030e-13	0.000e+00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GAIA DR1	72.0031560267688	-50.69039058801444	0.00022425661369806	1	
2MASS/2MASS.J	12350.00	9.977e-14	2.389e-15	9.977e-14	2.389e-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User					
2MASS/2MASS.H	16620.00	6.629e-14	3.114e-15	6.629e-14	3.114e-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User					
2MASS/2MASS.Ks	21590.00	2.901e-14	6.413e-16	2.901e-14	6.413e-16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User					
WISE/WISE.W1	33526.00	6.136e-15	1.356e-16	6.136e-15	1.356e-16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User					
WISE/WISE.W2	46028.00	1.851e-15	3.239e-17	1.851e-15	3.239e-17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User					
WISE/WISE.W3	115608.00	5.419e-17	8.485e-19	5.419e-17	8.485e-19	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User					
WISE/WISE.W4	220883.00	4.883e-18	4.183e-19	4.883e-18	4.183e-19	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User					

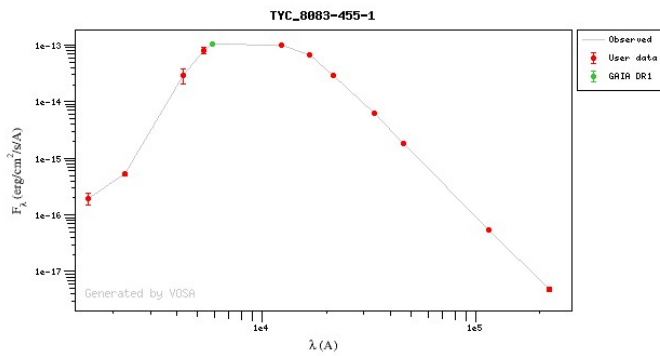


Figure 3. Gaia DR1 photometric information (G band) used to build the Spectral Energy Distribution.