



Italy: VO Edu on a nation-wide scale

G. lafrate – INAF Astronomical Observatory of Trieste

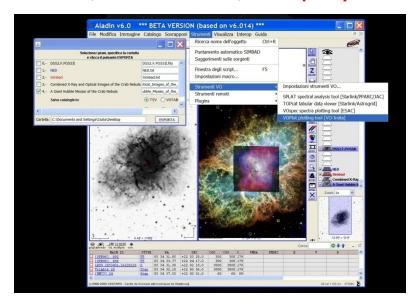


EuroVO for schools



Professional software custom modified:

Aladin, Stellarium, Simplay







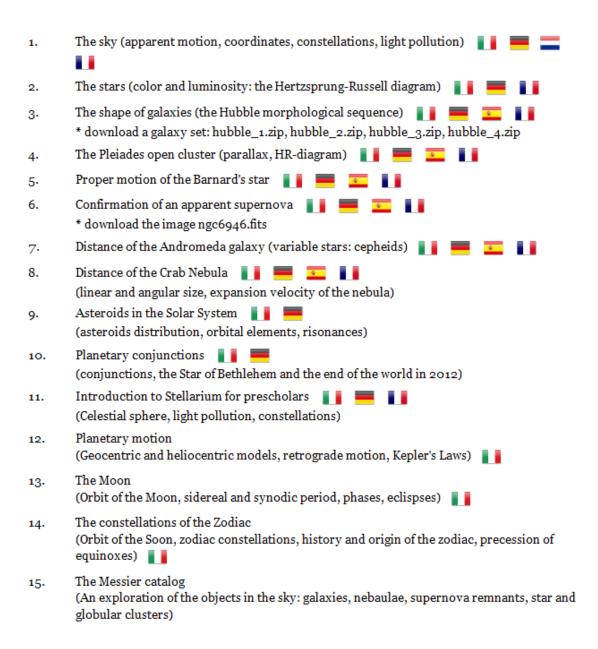
Library of Use Cases: www.oats.inaf.it/aidawp5

Developed with the contribution of teachers and students



Download usage examples







Use Cases



Developed with the contribution of teachers and students

Available in several languages

General presentation of the astronomical problem

Step by step guide on how to use the VO software tools needed to solve the problem

"To measure" is a key activity in science: exercises



Examples: astrometry, photometry

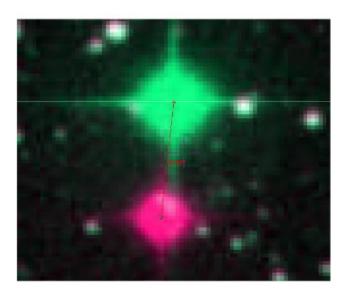






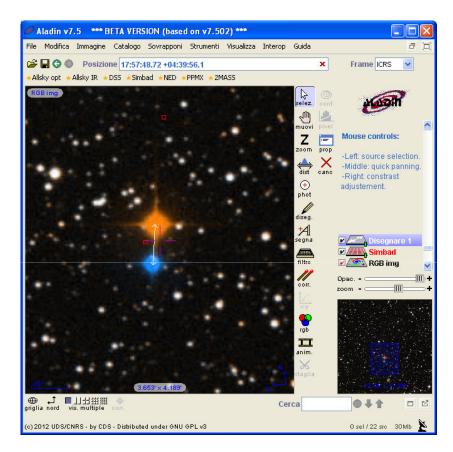
How to use the Virtual Observatory

Proper Motion of Barnards Star





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2MASS	K(IR K)	8.6' x 17.1'	000528N_KI1010209	1.1"/pix	1997-05-28T10:16:50
2MASS	J(IR J)	8.6' x 17.1'	000528N_JI1010209	1.1"/pix	1997-05-28T10:16:50
POSSI	0-DSS2(0.41um)	13.0' x 13.0'	569	1.1"/pix	1950-07-09T07:40:12
POSSII	F-DSS2(0.658um)	13.1' x 13.1'	805	1.1"/pix	1991-06-16T07:48:00
POSSII	J-DSS2(0.491um)	13.1' x 13.1'	805	1.1"/pix	1988-05-12T09:54:00
POSSI	E-DSS1(0.645um)	14.2' x 14.2'	569	1.7"/pix	1950-07-09T06:45:00





Trieste: Esploracosmo and SVAS



In Esploracosmo we combine real (remote) and virtual observing:

- images from SVAS telescopes
- tools and data from the VO
- images from our local archives

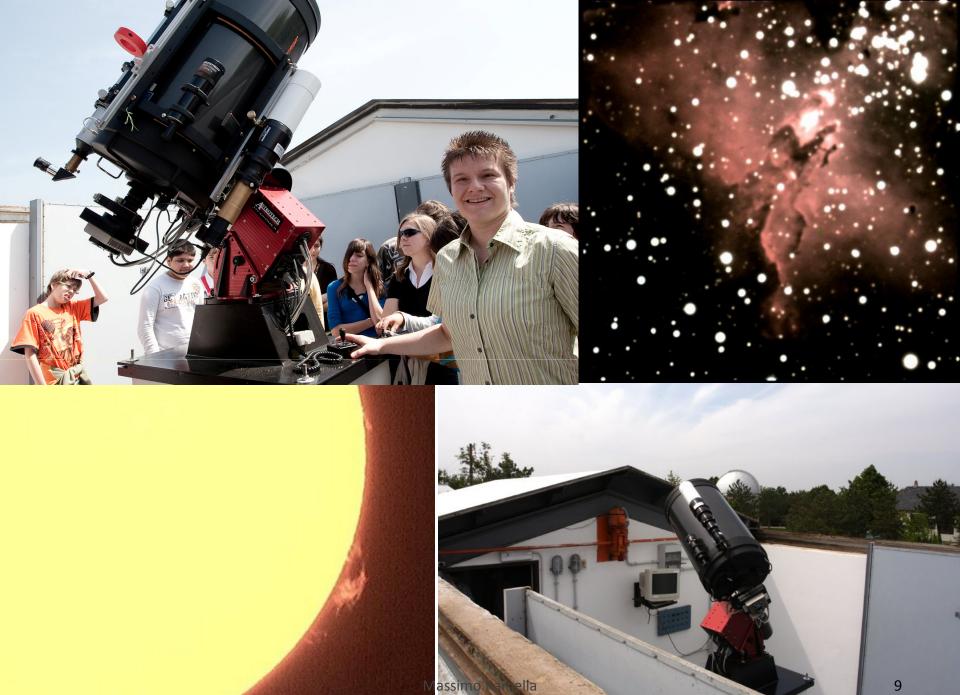
SVAS: two educational telescopes, for night observations (stars, nebulae, galaxies) and solar observations

SVAS telescopes can be managed remotely by students from school or form the Esploracosmo laboratory at our institute

Students can not only take images by themselves but, most importantly, they can analyze data using VO tools









Italy: VO Edu on a nation-wide scale



Ministry of education funded a national project for astronomy education and outreach, led by INAF

VO and remote telescopes are two of the main pieces of the project

VO: -> diffusion on a national scale increasing the number of schools and students using it

 -> diffusion through workshops for teachers organized in several cities



INAF telescope network



