

Russian Virtual Observatory (RVO)

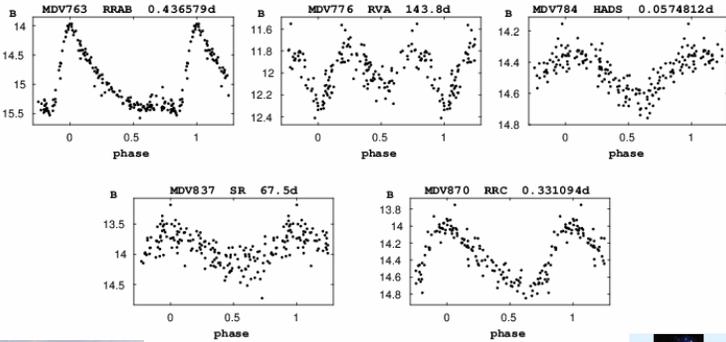
Current status and main projects

Started in Dec 2001, RVO has the following aims:

- To promote integration of the Russian astronomical data resources into the International Virtual Observatory;
- To construct VO science prototypes;
- To take part in developing of software, techniques, standards, formats of the IVO;
- To strengthen education and public applications of world astronomical data.



General Catalogue of Variable Stars:
more variable stars discovered, new classification algorithms applied.



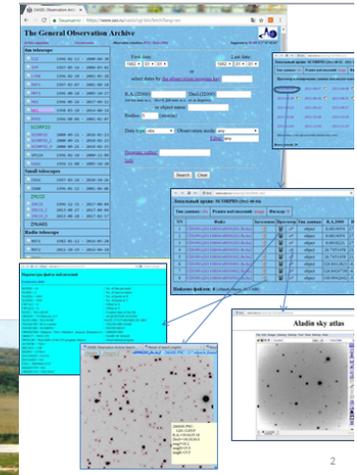
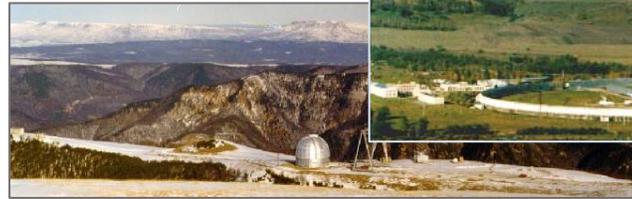
<http://www.sai.msu.su/gcvs/>



Binary star DataBase, BDB:
New algorithms of cross-identification implemented for multiple stars.

<http://bdb.inasan.ru/>

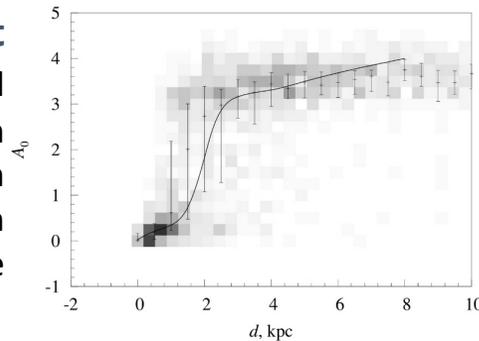
Special Astrophysical Observatory data archive system: since 1982, total volume ~7 TB, 2 mln files, 1.7 mln database records. software for automatic astrometric calibration of direct images and for on-fly data visualization developed.



<https://www.sao.ru/oasis/cgi-bin/fetch?lang=eng>



Construction of 3D map of extinction and dust distribution in Galaxy: New methods developed involving analyzing and extracting multiwavelength photometric information from sky surveys with recently developed VO instruments. Bayesian probabilistic approach is used to estimate the distance-extinction relation.



The presentation materials were provided by Dana Kovaleva, Nikolay Samus, Sergey Sichevsky, Olga Zhelenkova, Ivan Zolotukhin.

Reference Catalog of galaxy Spectral Energy Distributions RCSED: a VO-compatible catalog of galaxies produced as join between GALEX, SDSS, and UKIDSS catalogs, and processed with state-of-the-art spectral analysis methods which were not available earlier.

<http://rcsed.sai.msu.ru/>



International Virtual Observatory Alliance