

### Catalog data policy

The use of Catalog of solar active regions with the magneto-morphological classification (MMC) for public education efforts and non-commercial purposes is strongly encouraged and requires no expressed authorization.

When using the catalog, we ask that you first to send us a notification to [catalog MMC ARs@crao.ru](mailto:catalog MMC ARs@crao.ru); [vabramenko@gmail.com](mailto:vabramenko@gmail.com), then to send us a sample copy, reference, URL, etc., depending on the type of your publication.

We also ask that in your paper you include a reference on the paper:

Abramenko, V. I., Suleymanova, R. A., Zhukova, A. V. 2023. Magnetic fluxes of solar active regions of different magneto-morphological classes - I. Cyclic variations. \ Monthly Notices of the Royal Astronomical Society 518, 4746–4754. doi:10.1093/mnras/stac3338 Bibcode: 2023MNRAS.518.4746A

And include the following acknowledgement:

**We gratefully acknowledge the use of data from the Catalog of solar active regions with the magneto-morphological classification (MMC) at <https://sun.crao.ru/databases/catalog-mmcs-ars> of Crimean Astrophysical Observatory.**

Updated 3 Dec 2025