

Data Policy for the Tropospheric Ozone Assessment Report Database

Tropospheric Ozone Assessment Report Data Centre

The TOAR data centre (toar-data.org) supports the “Tropospheric Ozone Assessment Report” (TOAR) and the Earth system science community with unified and harmonized access to global air quality data with the focus on ozone data and related information.

The TOAR data centre is operated by the Jülich Supercomputing Centre and provides the following services:

- Maintenance and long-term provision (> 10 years) of the TOAR database of global surface observations of air quality including data ingest, data quality control, archival storage, management, administration and access.
- A DOI (Digital Object Identifier) data publication service for the direct integration of research data in scientific publications after thorough checks by peers, qualified personnel, and the data producer. This service is offered for datasets which are directly submitted to TOAR by the data’s principal investigator, and for specific TOAR documents approved by the TOAR steering committee.
- An editorial process which ensures the quality of metadata and research data in close collaboration with the data producer.

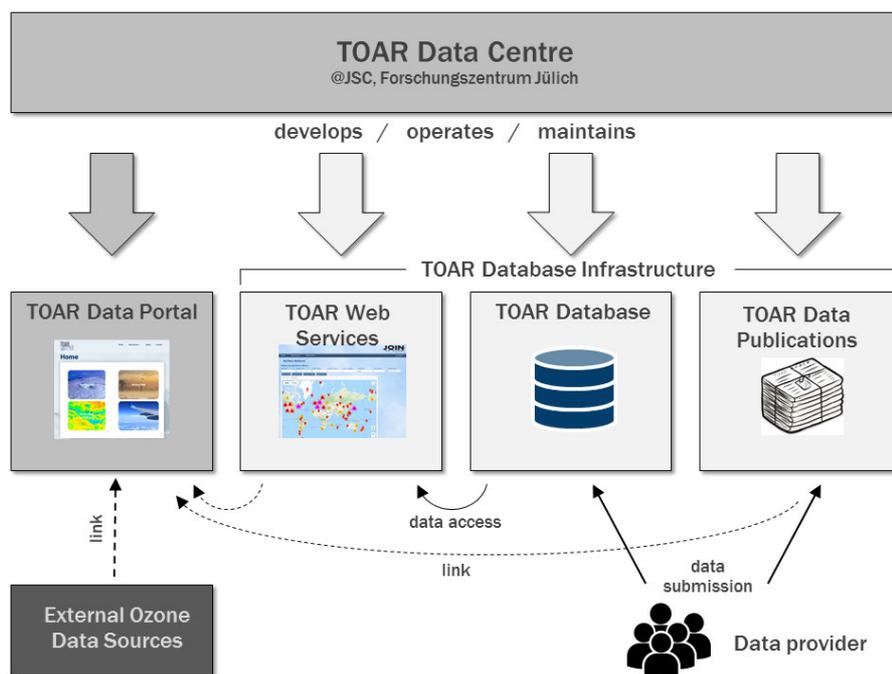


Figure 1: The components of the TOAR Data Centre

Designated Community

TOAR is an activity of the International Global Atmospheric Chemistry (IGAC) project. IGAC (<https://igacproject.org/>) is an open international community of scientists researching topics related to atmospheric chemistry (air quality, climate change, carbon and nitrogen cycles, impacts on human health and ecosystems, etc.) that is actively collaborating across geographical boundaries and disciplines in order to contribute to addressing the most pressing global change and sustainability

issues through scientific research. The TOAR data is freely accessible for research on the global -scale impact of ozone on climate, human health and crop/ecosystem productivity.

The designated community consists of scientists who are interested in the research of climate data which uses metadata standards such as ISO 19115 (geospatial metadata), ICOS station labelling, measurement methods & data processing.

Data Use Conditions

The Tropospheric Ozone Assessment Report (TOAR) database provides observation data from multiple stakeholders including environmental agencies, meteorological services, and research institutions. TOAR employs the CC-BY 4.0 licence whenever possible, which requires that Data Providers/authors get proper attribution of their work and that this attribution is maintained in any subsequent use of the data. The TOAR data centre will not assume any liability that may arise as a consequence of the use of the data made available by any of its services. We encourage all our data providers to adopt this licence to facilitate interoperability and re-use of their data. Other data licences can be accepted under the condition that data can be made freely available through the TOAR data infrastructure and that aggregated datasets (i.e. calculated statistics or ozone metrics) can be published as part of a data collection under the CC-BY 4.0 licence.

TOAR also offers data providers the possibility to publish their datasets on the EUDAT B2SHARE server with a DOI. This offer only applies to datasets which are not published elsewhere, i.e. usually direct submissions from university groups etc. Data publications are always released with a CC-BY 4.0 licence. Datasets will not be published (and no DOI assigned) if the providers don't agree with this licence model.