

3.2 Central Bureau

General activities

The IERS Central Bureau (CB), hosted and funded by Bundesamt für Kartographie und Geodäsie (BKG), organized and documented the IERS Directing Board (DB) Meetings No. 68, April 7, 2019, at Technical University of Vienna, Austria, and No. 69, December 8, 2019, at Park Central Hotel, Washington, DC, USA (see Section 3.1 for minutes of these meetings). Between the meetings the CB coordinated the work of the DB.

Members of the CB took also part in the following meetings: ILRS introductory and refresher course on SLR and LLR, European Geosciences Union General Assembly 2019 (including meetings of the ILRS Analysis Standing Committee, the GGOS Coordinating Board, the GGOS Bureau of Networks and Observations, and the GGOS Standing Committee PLATO), 24th Meeting of the European VLBI Group for Geodesy and Astrometry (EVGA) and 20th IVS Analysis Workshop, 27th IUGG General Assembly, Implementation of the GGRF in Latin America, GGOS/IERS Unified Analysis Workshop, SIRGAS Workshop 2019 in Satellite Laser Ranging, and GGOS Days 2019.

IERS components maintain individually about ten separate web sites. The central IERS site www.iers.org, established by the CB, gives access to all other sites, offers information on the structure of the IERS, its products and publications, and provides contact addresses as well as general facts on Earth rotation studies. It contains also electronic versions of IERS publications, as well as link lists for IERS, Earth rotation in general and related fields. Throughout 2019 the web site was continually updated, several new pages and documents were added. An extended list of meetings related to the work of the IERS was maintained and updated frequently. The CB maintains also the web pages of the IERS working groups. In an internal area, accessible for DB members and IERS Associate Members, all presentations given at IERS DB meetings since 2000 are available, and further documents were added.

The IERS Annual Report 2017 was printed and distributed. The CB edited most parts of the IERS Annual Report 2018 and of the IERS Technical Note No. 40 (Description and evaluation of DTRF2014, JTRF2014 and ITRF2014). Along with the reports of the IERS components, provided by them, the annual reports contain general information on the IERS assembled by the CB. The CB compiled also summaries of DB meetings and its own report. The $\text{\LaTeX}$ template for annual reports was further improved.

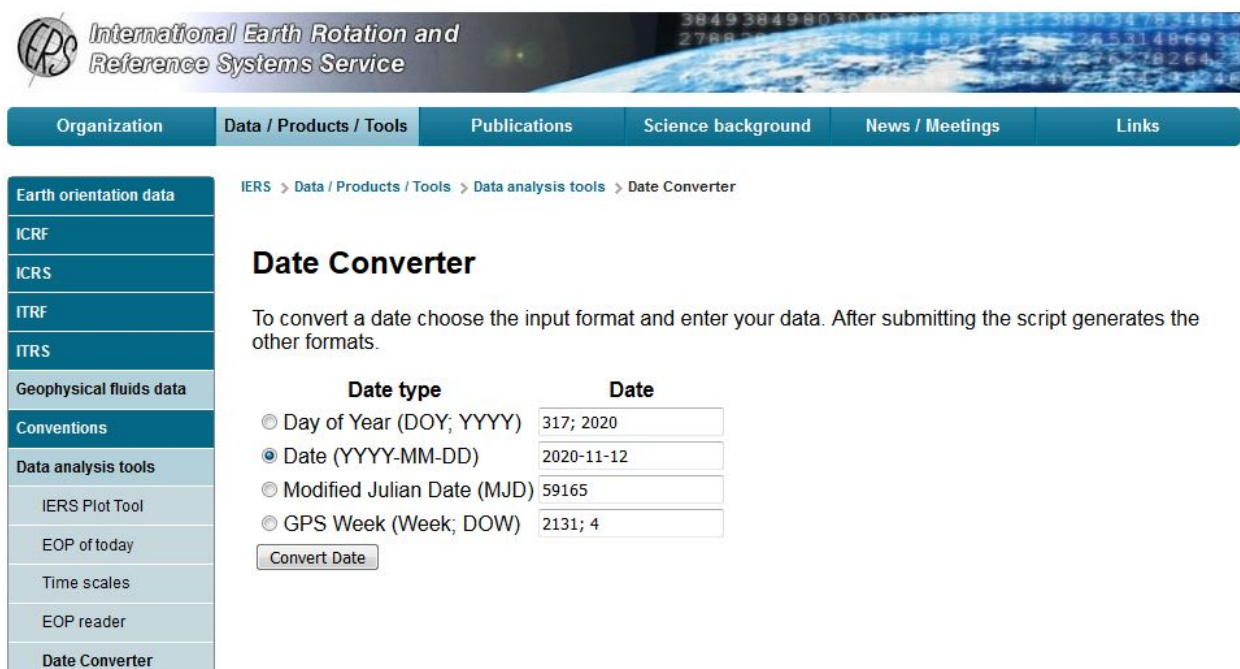
A report of IERS activities for the period 2015–2019 was submitted to IAG in May 2019.

During the year 2019, 22 IERS Messages (Nos. 368–389) were edited and distributed. They include news from the IERS and of general type as well as announcements of conferences.

Address and subscription information have regularly been updated in the IERS user database. There were about 2800 users in 2019 with valid addresses who subscribed to IERS publications for e-mail and regular mail distribution.

Questions from IERS users concerning IERS publications and products as well as Earth rotation and reference frames in general were answered or forwarded to other specialists.

The Director of the CB, Daniela Thaller, chairs the IERS Working Group on SINEX Format and is ex officio member of the other IERS WGs. She also leads, together with Benjamin Männel of GFZ, the GGOS Standing Committee PLATO (Performance Simulations and Architectural Trade-Offs), which is also a Joint Working Group with IAG Sub-Commission 1.1. She represents the IERS in the ILRS Governing Board and represents the IERS within the GGOS WG on implementing DOIs for Data and Products (established in 2019). Wolfgang Dick continued to work in the Control Body for an ISO Geodetic Register Network, which will contain standardized and proved data on reference systems.



The screenshot displays the IERS website's navigation bar and a sidebar menu. The main content area shows the 'Date Converter' tool. The navigation bar includes links for Organization, Data / Products / Tools, Publications, Science background, News / Meetings, and Links. The sidebar menu lists various data and tool categories, with 'Data analysis tools' selected. The 'Date Converter' tool interface includes a breadcrumb trail, a title, a description, and a form with radio buttons for different date types and input fields for the date values.

International Earth Rotation and Reference Systems Service

Organization | Data / Products / Tools | Publications | Science background | News / Meetings | Links

Earth orientation data
ICRF
ICRS
ITRF
ITRS
Geophysical fluids data
Conventions
Data analysis tools
IERS Plot Tool
EOP of today
Time scales
EOP reader
Date Converter

IERS > Data / Products / Tools > Data analysis tools > Date Converter

Date Converter

To convert a date choose the input format and enter your data. After submitting the script generates the other formats.

Date type	Date
☐ Day of Year (DOY; YYYY)	317; 2020
☒ Date (YYYY-MM-DD)	2020-11-12
☐ Modified Julian Date (MJD)	59165
☐ GPS Week (Week; DOW)	2131; 4

Fig. 1: User interface of the Date Converter tool, see also <https://www.iers.org/IERS/dateconverter>

IERS Data and Information System (DIS)

The IERS Data and Information System (IERS DIS) is continuously being adapted and extended by new components in order to fulfil the requirements for a modern data management and for the access to the data by the users. Besides routine work like maintenance of the data bases of users, products and web pages, in 2019 further developments of the IERS DIS concentrated on the enhancement of the data management system and of the interactive tools to visualize and analyze IERS products. Especially security features were updated to meet current standards.

An improved monitoring system was established for the data management system to ensure a timely and error-free provision of the IERS products on the webpages and ftp server.

A new feature has been implemented in the data management system, which allows the direct upload of USNO earth rotation data to the servers of the of the IERS Central Bureau.

Further improvements of the IERS DIS included the development of a date converter tool (see Fig. 1) and the availability of csv formatted files on the ftp server.

Staff in 2019

Dr. Daniela Thaller, *Director*
 Dr. Wolfgang R. Dick, *scientist and Executive Secretary*
 Sabine Bachmann, *scientist*
 Sonja Geist, *technician*
 Sandra Schneider-Leck, *technician*

Presentations

Robert Heinkelmann, Brian Luzum, Daniela Thaller, Wolfgang R. Dick: The International Earth Rotation and Reference Systems Service. Invited paper presented at International workshop for the implementation of the Global Geodetic Reference Frame (GGRF) in Latin America, Buenos Aires, Argentina, Sep. 18, 2019.

Daniela Thaller, Wolfgang R. Dick, Brian Luzum, Robert Heinkelmann: Activities of the International Earth Rotation and Reference Systems Service. Invited paper presented at the joint SIRGAS / GGOS symposia, Rio de Janeiro, Brasil, November 12, 2019

Wolfgang R. Dick, Daniela Thaller, Sonja Geist