



# RESEARCH CENTRE FOR ASTRONOMY AND EARTH SCIENCES

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- **Located in Budapest**
- **Member of the Eötvös Loránd Research Network**
- **Hungarian Academy of Sciences Centre of Excellence**
- **Institutional membership in 14 international organizations**
- **200 employees, 124 researchers (2019)**
- **479 publications (2019)**
- **9670 citations (2018)**
- **Impact Factor: 997.5**

The **Research Centre for Astronomy and Earth Sciences** is open to further joint research activities at international level.

For any additional information on possible international cooperation please contact Mr. Sándor FREY at [frey.sandor@csfk.org](mailto:frey.sandor@csfk.org).

The basic task of the **Research Centre for Astronomy and Earth Sciences** includes research on astronomy, astrophysics, space research and earth sciences (geography, geology, geochemistry), the operation of special geoscience labs and the Piszkestető Mountain Station of the Astronomical Institute, conducting basic (exploratory) research, preparation and publication of research results for application, conducting theoretical investigations, and carrying out the observatory, laboratory and field measurements necessary for exploratory research, creation of scientific devices and methods, scientific analysis and publication of data, maintenance of observatories and establishing new observatories if necessary.

At present, the **Research Centre for Astronomy and Earth Sciences** includes three **institutes**:

- Konkoly Thege Miklós Astronomical Research Institute
- Geographical Institute
- Institute for Geological and Geochemical Research

and several interdisciplinary research groups under the direct supervision of the Director General.

## Konkoly Thege Miklós Astronomical Research Institute

The research staff of the Institute forms research teams covering the following research topics: astrophysics and geochemistry, space astronomy, planet and star formation, stellar pulsation, space photometry and exoplanets, near-field cosmology, AGB nuclei and dust, radioactivities from stars to solar systems, solar and stellar activity, extragalactic astrophysics, and solar system research.

## Geographical Institute

Scope of activities of the Institute involves the development of theoretical bases and methodology for physical, human and regional geography, studies on spatial processes and interrelationships; temporal and spatial survey of the interaction between man and environment; assessment of factors of the geographical environment with a special reference to natural and socio-economic resources, and to the emerging socio-economic problems in the Carpatho-Pannonian area (mainly in Hungary).

## Institute for Geological and Geochemical Research

The Institute consists of three research groups, focusing on research in the fields of geochemistry, paleoclimate and archeometry. The Institute also manages three laboratories: Stable isotope mass spectrometry, Laboratory for mineral and rock analyses, and Sample preparation laboratory for in-situ produced cosmogenic nuclide.

## Human resources

In the Research Centre for Astronomy and Earth Sciences the average number of employees was 200 in 2019, of which the number of researchers was 124. 36% of the

researchers were women. 4 researchers were Full or Corresponding Members of the Hungarian Academy of Sciences, 14 scientists held the title of Doctor of the Hungarian Academy of Sciences, and 73 co-workers had a PhD or were doctoral candidates. The rate of young researchers (under the age of 35 years) was 40%. (Until April 1st, 2021, the Research Centre included the former Geodetic and Geophysical Institute, which has become an independent entity of the ELKH as Institute of Earth Physics and Space Sciences.)

**Institutional membership** in international organisations, networks

- OPTICON-RadioNet PILOT (ORP)
- International Astronomical Union (IAU)
- European Astronomical Society (EAS)
- European Interferometry Initiative (EII)
- European Astrobiology Institute (EAI)
- International Seismological Centre (ISC)

## List of articles on recent main achievements

- GRBA $\alpha$ : A 1U CubeSat mission for validating timing-based gamma-ray burst localization ([link](#))
- Occurrence and health risk assessment of pharmaceutically active compounds in riverbank filtrated drinking water ([link](#))
- Non-destructive handheld XRF study of archaeological composite silver objects—the case study of the late Roman Seuso Treasure ([link](#))
- Neutron Star Mergers Might not be the Only Source of r-Process Elements in the Milky Way ([link](#))
- Crowdsourcing triggers rapid, reliable earthquake locations ([link](#))
- SEM-EDS and  $\mu$ -XRD study of the niello inlays of a unique late Roman silver augur staff (lituus) from Brigetio, Pannonia (Hungary) ([link](#))

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