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UGA
Université
Grenoble Alpes



UMS1484

Observatory for Sciences of the Universe of Grenoble (OSUG)

Management

Nathalie Cotte, Director

Key figures

- 37 staff (administrative, technicians, computer engineers, project managers)
- 41 lecturer-researchers
- 35 national observation services

Scientific subjects

- Astronomy
- Climatology
- Alpine ecology
- Geochemistry
- Geology
- Geophysics
- Glaciology
- Hydrology
- Mechanics
- Fluid dynamics
- Human and social sciences (geography, sociology)

Keywords

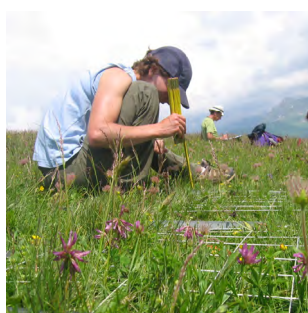
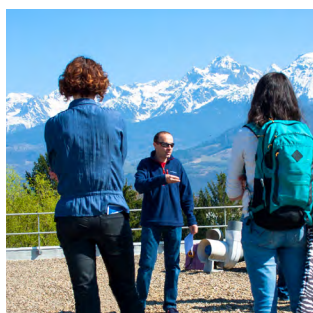
- Biodiversity
- Environment
- Society-habitat interactions
- Earth
- Universe

Mission and objectives

A unique regional organization, the Observatory for Sciences of the Universe of Grenoble (OSUG) is both a federative research structure, an academic component of the Université Grenoble Alpes as created by decree (national status of "observatory") and a joint service unit for managing common or mutualized resources.

As a federation, OSUG currently has more than 1,400 members, in 8 units, 5 research teams and 2 joint service units (UAR), co-supervised by several authorities for its 4 geographical sites in Grenoble, Chambéry, Thonon-les-Bains and Col du Lautaret (2 regions, 4 departments).

OSUG works in all fields of Sciences of the Universe, Earth and Environment.



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The OSUG joint service unit, around which the Observatory is structured, hosts the central services and, with its management and staff, manages all the Observatory's activities, as defined by the OSU's statutory missions:

- observing systems (natural and anthropic);
- collecting, archiving, processing and disseminating data from observatories and major national and international programs in Earth, Universe and Environment Sciences (STUE);
- pooling resources to the benefit of OSUG units and its partners;
- contributing to basic and applied research in Earth, Universe and Environment Sciences;
- contributing to teaching (initial training and continuing education) and to disseminating knowledge to teaching staff, PhD students and the general public.



Centre
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The OSUG federation:

8 research units

- Institute for Environmental Geosciences (IGE)
- Institute for Planetary sciences and Astrophysics, Grenoble (IPAG)
- Institute of Earth Sciences (ISTerre)
- Laboratory of Alpine Ecology (LECA)
- Laboratoire des Écoulements Géophysiques et Industriels (LEGI)
- Laboratory for Mountain Ecosystems and Societies (LESSEM)
- Environnements, Dynamiques et Territoires de Montagne (EDYTEM)
- Alpine Centre for Research on Lake Ecosystems and Aquatic Food Webs (CARRTEL)

5 associated teams

- French Absorption Spectroscopy Beamline in Material and Environmental Sciences (FAME) in ESRF
- Snow Research Centre (CEN) of CNRM
- Environments of PACTE laboratory
- Signal-Images-Physics (SigmaPhy) of GIPSA-Lab
- Lasers, Molecules and Environment (LAME) of LIPhy

2 research support units

- Lautaret Garden
- OSUG

Social networks

- @osug-observatoireterreuniv1004
- @OSUG_fr
- Observatoire-des-Sciences-de-l'Univers-de-Grenoble
- Observatoire des Sciences de l'Univers de Grenoble (OSUG)
- PULSAR OSUG

Research at the heart of major societal issues

OSUG carries out research in the fields of astrophysics, Earth science and environmental science in order to contribute to reflections about humanity's place on Earth and in the Universe.

OSUG research contributes to reconstituting the origin and evolution of natural systems, to understanding the fundamental mechanisms of these systems and to studying their interactions with human activities. They tackle crucial scientific challenges and societal issues in terms of exploration of the Universe, climate and environmental change, the internal dynamics of the Earth, exploitation of natural resources and dealing with risks.

National observation services and research facilities

Fully committed to its mission: providing the means necessary to the acquisition of observations from astronomic systems and components of the Earth system, OSUG is involved, through its 40 lecturer-researchers in astronomy and physics, in 35 national observation services (SNO). More specifically, OSUG coordinates and runs 12 SNO in the following disciplines: Astronomy & Astrophysics (5) – Ocean, Atmosphere, Surfaces and Continental Interfaces (5) – Solid Earth (2).

At the European level, OSUG is involved in nine research facilities actively contributing to the collective effort to develop the European Research Area (ERA). It is also a partner in ground- and space-based international observation services that study Earth and Universe system dynamics.

Training and disseminating knowledge to society

To have an enlightened approach to the issues facing tomorrow's world (global changes, resource management, forecasting and prevention of natural risks, etc.), understanding of the world that surrounds us and current issues facing society must be accessible to all, appropriately formatted, transparent and as close as possible to the state of the art.

OSUG is therefore implementing different approaches (cross-disciplinary university courses, MOOC, lifelong training, conferences, visits, events, audiovisual productions, etc.) for a wide range of audiences (primary and secondary school teachers, associations, professionals, academics, the general public, etc.).



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