RÉPUBLIQUE FRANÇAISE
Liberté Égalité Fraternité

OBSERVATOIRE DE LA CÔTE D'AZUR
UNIVERSITÉ CÔTE D'AZUR

YOUR PREMIER OPEN-AIR LABORATORY FOR CUTTING-EDGE RESEARCH AND OBSERVATION

CALERN OBSERVATORY

Laser telemetry, time transfer, and space geodesy

Atmospheric Studies

Space weather

Optical telecommunications

Space surveillance

Introduction

Located on a 4 km² limestone plateau, Calern Observatory is a world-renowned site for astrophysical, geophysical, and geodetic studies. Its exceptional natural conditions make it an ideal location for research and observation. The site not only hosts instruments for companies and space agencies, but also accommodates two startups, highlighting its key role in scientific and technological innovation.

Key advantages

- 200 clear nights per year ensuring optimal observation conditions.
- Only 40km away from Nice international airport offering easy access from all over the world.
- Moderately dry atmosphere reducing atmospheric interference.
- Stable wind circulation benefiting from horizontal layers stabilized by the sea breeze.

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Areas of expertise

Optical telecommunications

Free-Space Optical Telecommunications. Cutting-edge research and applications.

Atmospheric Metrology

Measurement and prediction of clouds, aerosols and turbulence distribution and turbulence analysis.

Data processing

Image, signal, machine learning, and AI.

Laser telemetry, time transfer, and space geodesy

Precise measurement and synchronisation.

Space surveillance

Monitoring and analysis of space activities

Space weather

Prediction and monitoring of solar activity.

Our offers and services

Instrument hosting
bring your new instruments to our state-of-the-art facilities

Use of existing instruments
access our advanced instruments, with the possibility of remote control.

Collaborative R&D
engage in joint research and development projects.

Instrument replication and testing
get assistance with replication and testing.

Specialized training
receive expert training tailored to your needs.

Cutting-edge instruments

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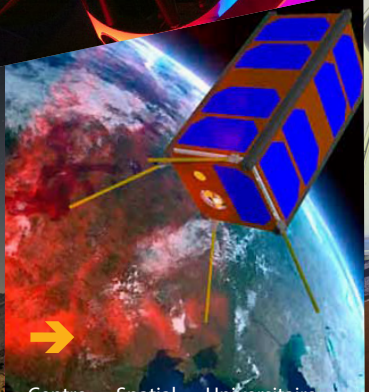
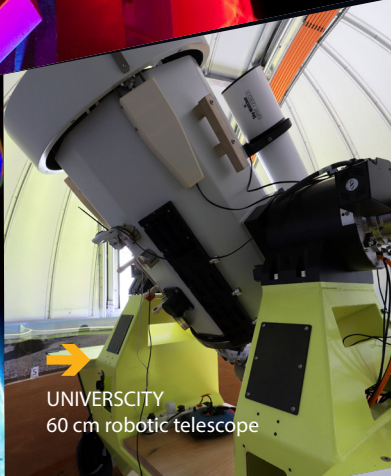
Atmospheric turbulence station (CATS)
Calern Atmospheric Turbulence

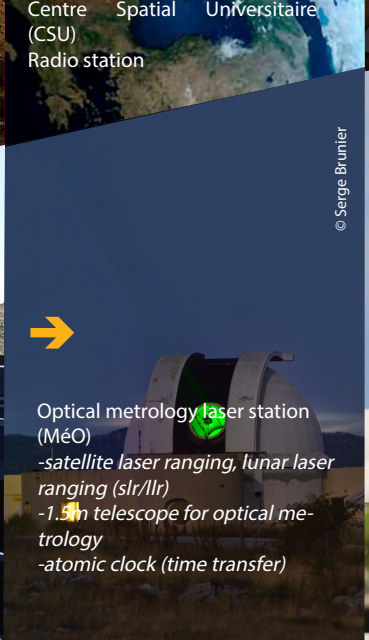


Centre Spatial Universitaire (CSU)
Radio station



UNIVERSCITY
60 cm robotic telescope

25 cm fast-moving robotic telescope (TAROT)



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Optical metrology laser station (MéO)
-satellite laser ranging, lunar laser ranging (slr/llr)
-1.5m telescope for optical metrology
-atomic clock (time transfer)

METEOSPACE
Automated telescopes for imaging the solar chromosphere

Comprehensive infrastructure and support services

To ensure the success of your projects, calern observatory provides :

Dedicated technical maintenance team
Comprised of skilled professionals.

Mechanical workshop
Fully equipped for technical support.

On-site accommodation
10 individual rooms for comfortable stays

Catering service
Quality meals available on-site.

Backup generator
Guaranteeing uninterrupted operations.

We invite you to take advantage of the unique resources and expertise at Observatoire de la Côte d'Azur for your next research project. whether you are focused on advancing your research or refining your technologies, our observatory provides the ideal environment and support to help you achieve your objectives.

CONTACT US
For more information or to discuss collaboration opportunities, please contact us :

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