

#### PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE

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#### Chile at a glance

AREA/ 756.102 km<sup>2</sup> divided into 16 Regions: longest country in the world and one of the narrowest (4.300 km long and 177 km wide). 83.500 km of coastal length, twice the circumference of our planet.

**CLIMATE**/ temperate; desert in north; mediterranean in central region; cool and damp in south

POPULATION/ 17.789.267 CAPITAL CITY/ Santiago

MAIN EXPORT PRODUCT GROUPS/ copper, fruits, nuts, fish, wood and inorganic chemicals

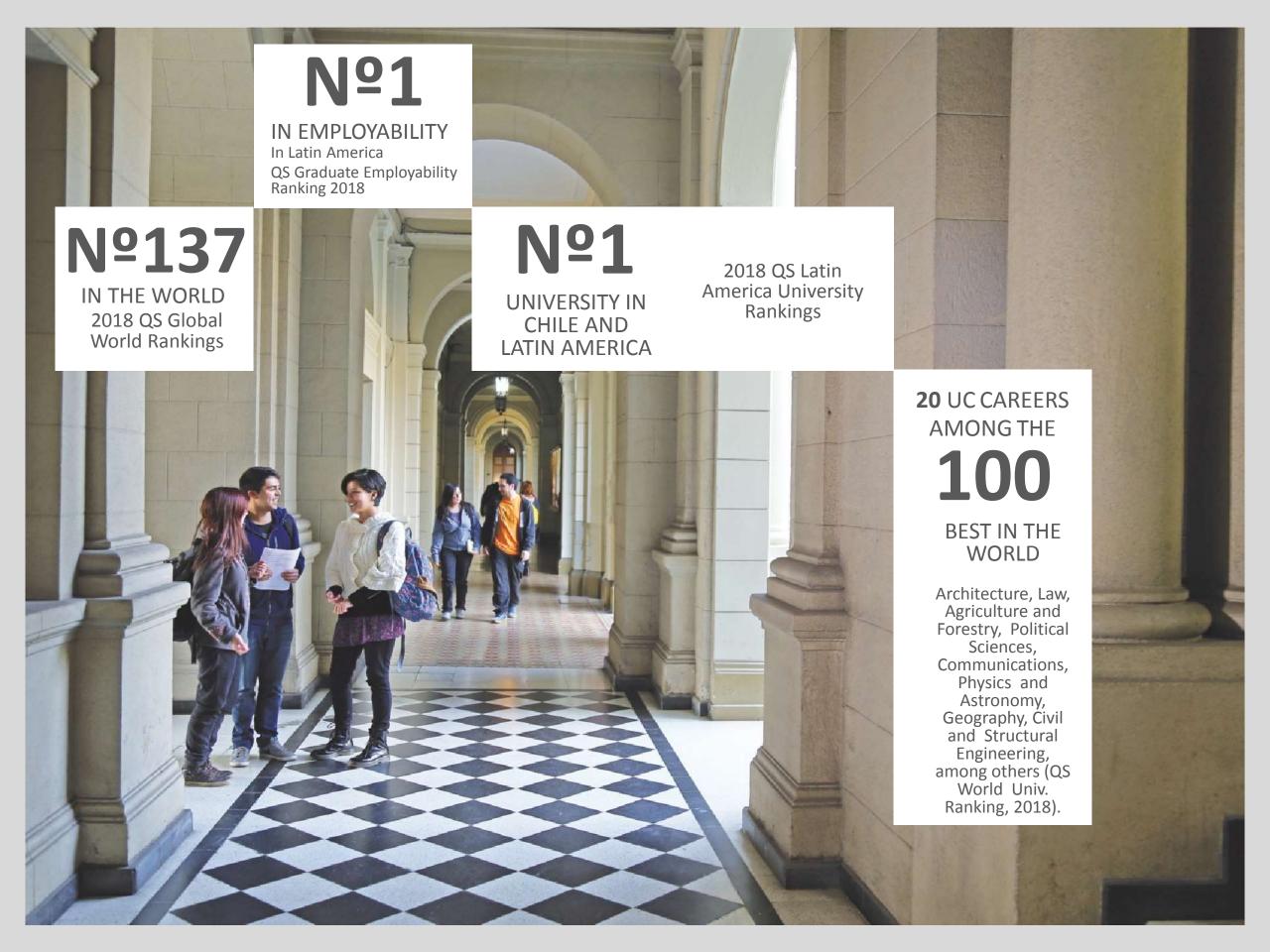
GDP/ ~USD 300 billion

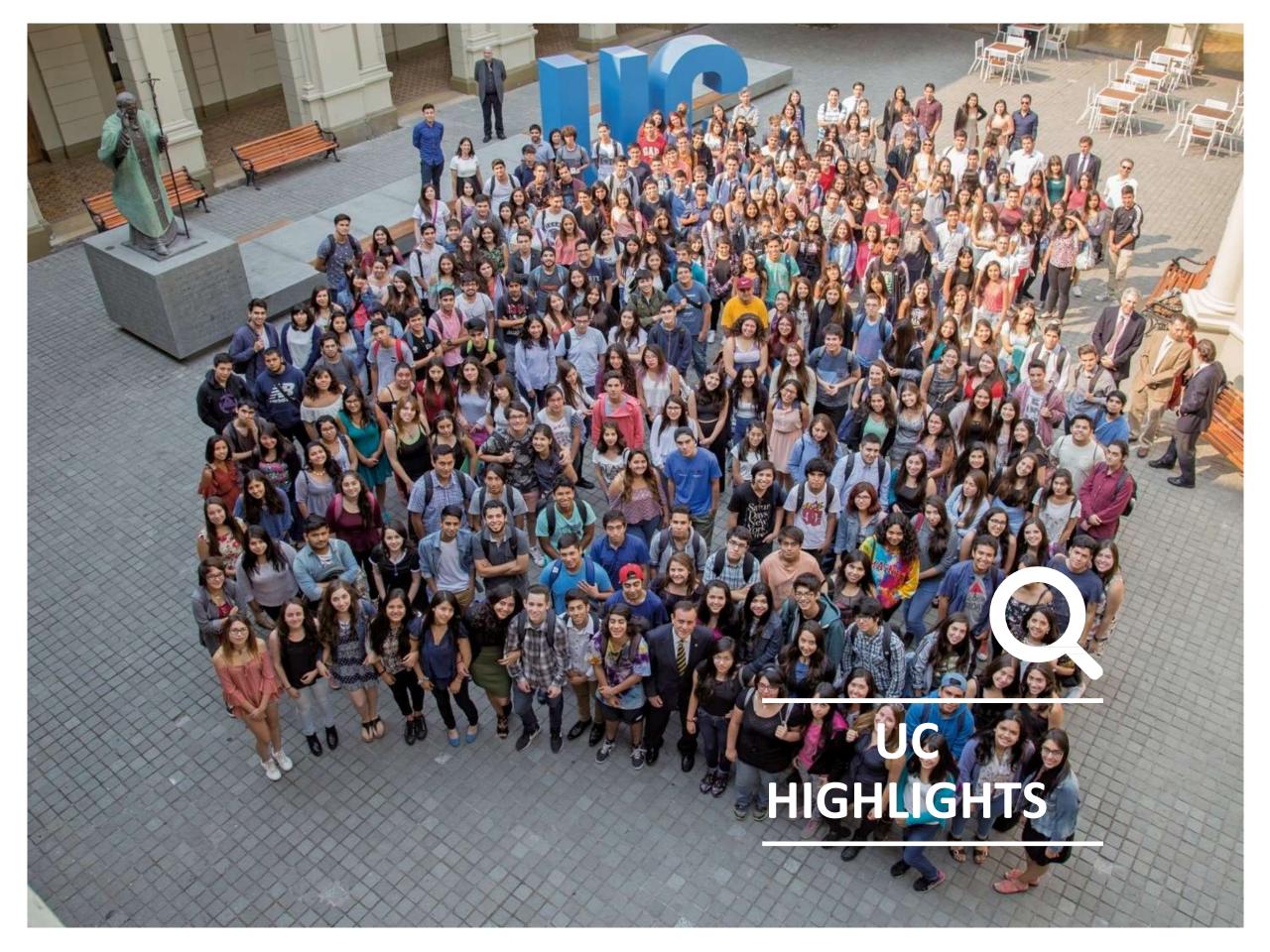
**OECD MEMBER/** First in South America

#### ABOUT CHILE









22 RESEARCH SCIENTIFIC CENTERS 102 UNDERGRADUATE PROGRAMS 92 MASTERS PROGRAMS 35 PhD PROGRAMS

+1.000
PhD
STUDENTS

+23.000
UNDERGRADUATE STUDENTS

+3.000
MASTERS
STUDENTS

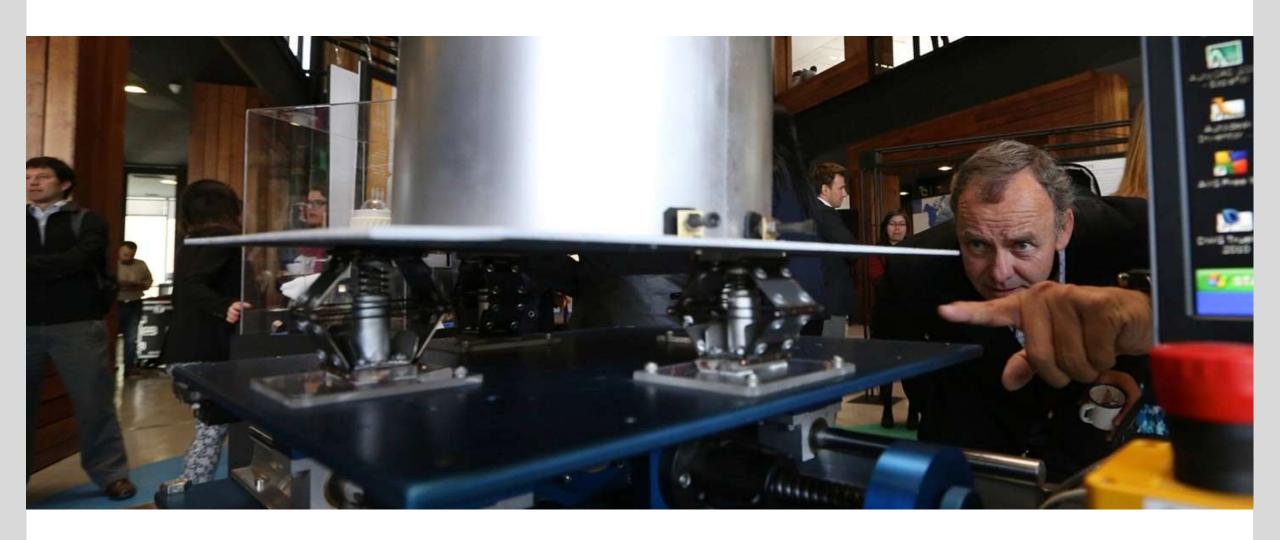
+3.500 PROFESSORS

2.400 SCOPUS ARTICLES PUBLISHED PER YEAR ~USD57.400
MILLION
NATIONAL RESEARCH
GRANTS

+700
ONGOING RESEARCH PROJECTS
WITH EXTERNAL
FUNDING

Q

**UC HIGHLIGHTS** 



### OFFICE FOR RESEARCH AFFAIRS



- Encourage and support research activities in all areas of knowledge.
- Ensure the compliance in ethical, bioethical and security aspects and the correct execution of research projects
- Maximize the national and international funding to develop research inside the university through internal programs and support the application of external projects.
- Support our Senior Leadership in all matters related to research.
- **Promote** interdisciplinary research, internationalization and support early career researchers.



OFFICE FOR RESEARCH AFFAIRS Natural
Laboratories/
Our Endowment



### nature insideview

CHILE SPOTLIGHT



#### **Bright future**

Chile excels at stargazing, but it must boost its expertise to find its place in a globalized world and develop a twenty-first-century economy.

BY ALESZU BAJAK

**inside**view

SPOTLIGHT ON CHILE

ADVERTISEMENT FEATUR

#### PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE (PUC) TAPS INTO CHILE'S DIVERSE GEOGRAPHY

A conversation with IGNACIO SANCHEZ, president of Pontificia Universidad Católica de Chile (PUC)



Pontificia Universidad Católica de Chile (PUC) is the nation's research powerhouse. Publishing more than 2,400 Scopus articles per year, the Santiago-based university is both a Latin American gateway for collaboration and a player in several international collaborations, its president, Ignacio Sánchez, explains.



Profile Feature as seen in Nature 14th December 2017

#### **UC Field Stations:**

# Scientific Research from North to South

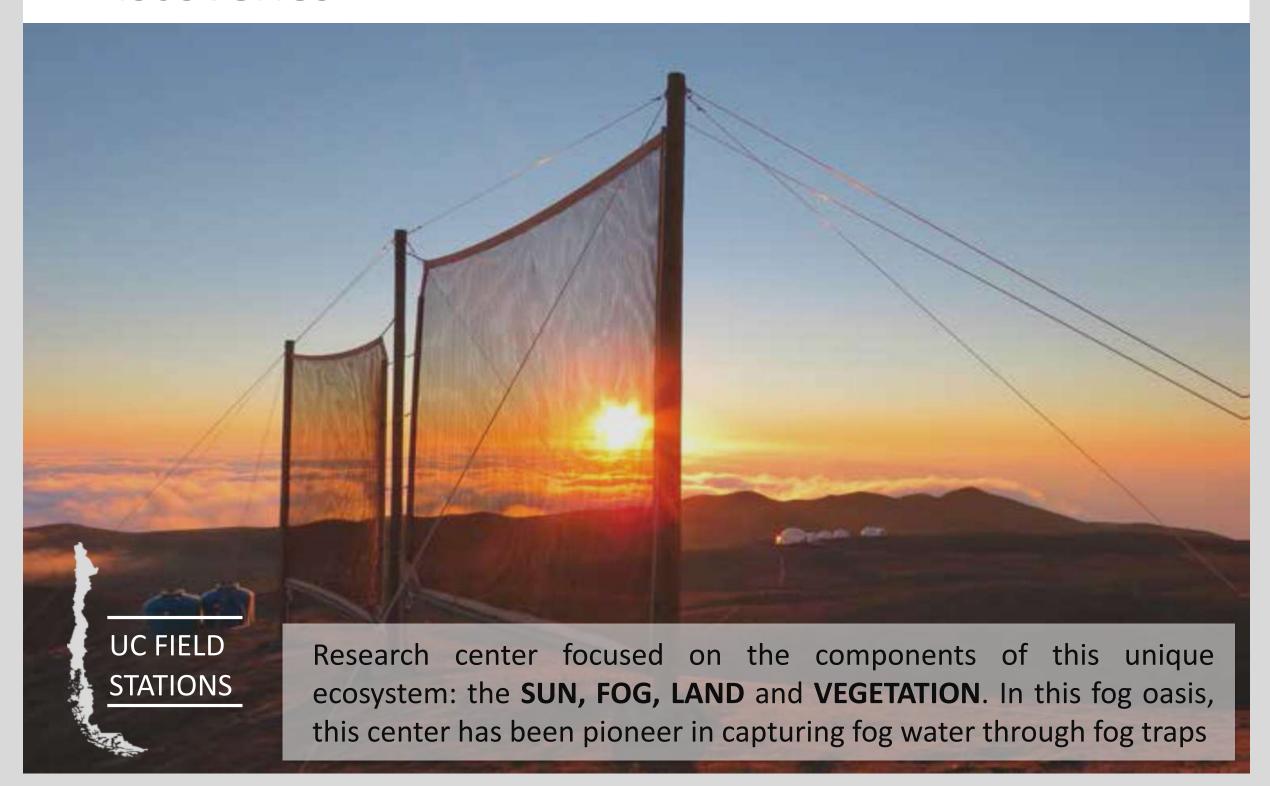






OFFICE FOR RESEARCH AFFAIRS

### Atacama Desert Research Station: A Desert Full of Discoveries



### Atacama Desert Research Station: A Desert Full of Discoveries

•Location: 66 kilometers south from

Iquique city. Tarapacá Region.

•Main faculty: History.

•Associate faculties: Biological

Sciencies, Agronomy, Arquitecture.

Director: Pablo Osses

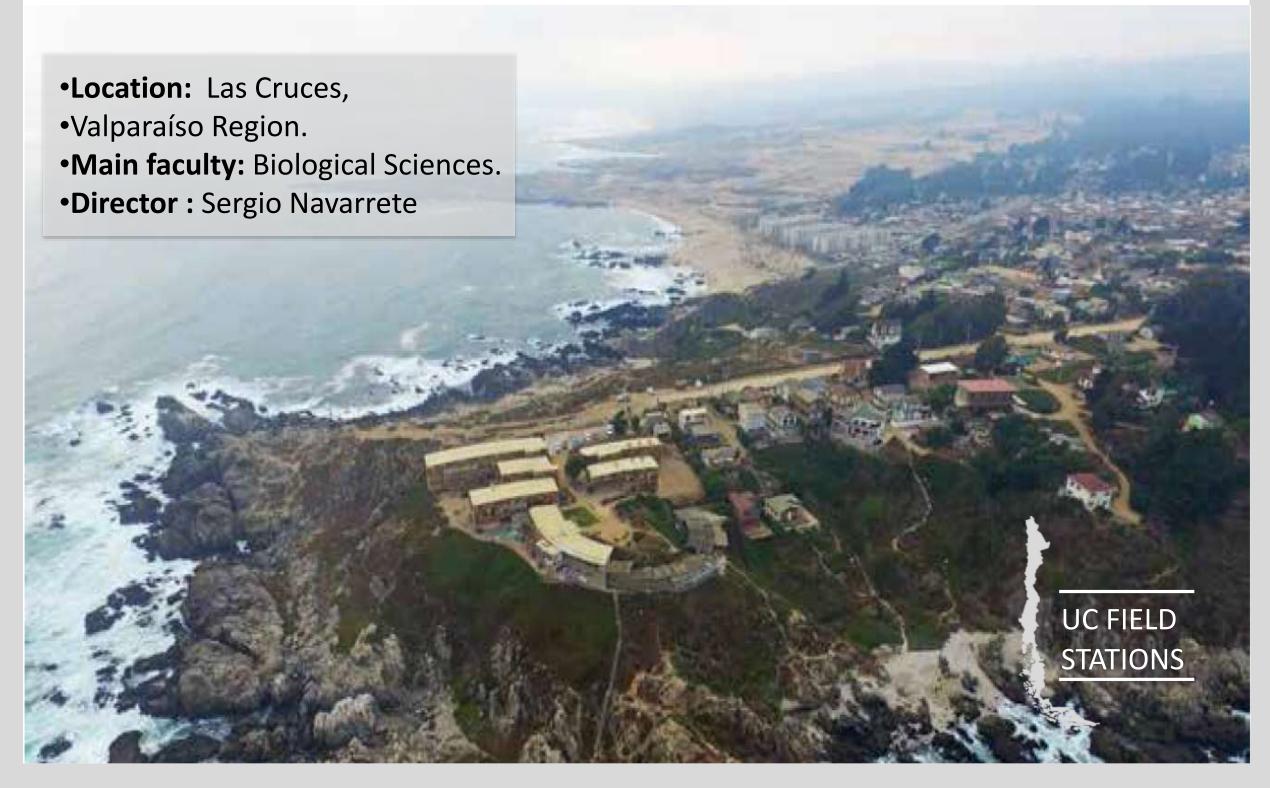


# Coastal Marine Research Station: The Ocean Under the Microscope

Research center focus on studies of the Pacific Ocean, from its **NATURAL RESOURCES** to **ECOSYSTEM CONSERVATION**, to the possibilities the ocean offers as a potential source of **ENERGY**.



# Coastal Marine Research Station: The Ocean Under the Microscope



#### **Evolutionary Biology and Ecology of Algae (UMI-EBEA)**



#### **Evolutionary Biology and Ecology of Algae (UMI-EBEA)**

The relationship among researchers dates from almost **20 years ago**, collaboration with CNRS is strengthened in 2003 with the creation of the International Associated Laboratory (LIA) between SBR and UC. UMI 3614 focuses on research in basic precepts of ecology, evolution and genomics in marine algae and develops links with resource management and seaweed farming.

#### The main research objectives are:

- 1. To study the causes and consequences of the evolution of seaweed mating systems.
- 2. To understand speciation processes of seaweeds and the evolutionary and ecological limits of adaptation.
- 3. To explore the domestication process of seaweeds, the management of genetic resources and the environmental impact.





# Center For Local Development: Interdisciplinary Sustainability



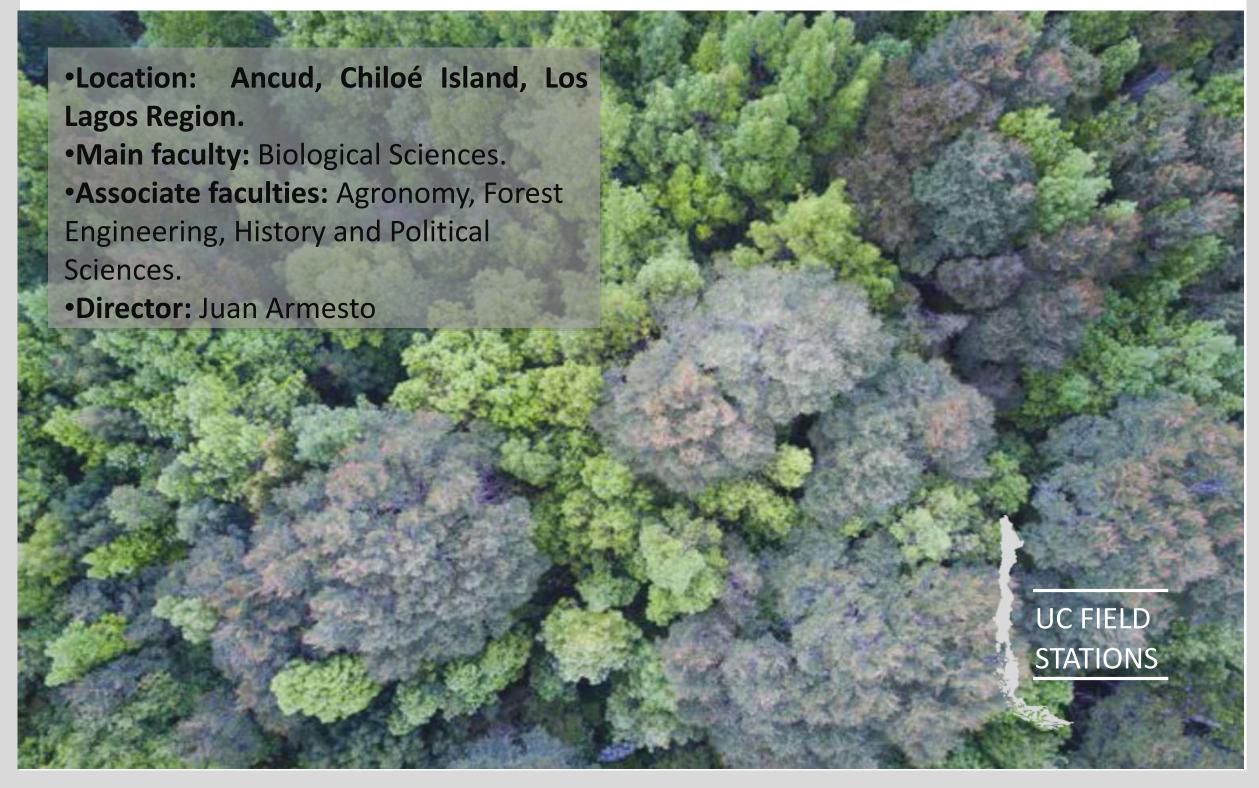
# Center For Local Development: Interdisciplinary Sustainability



### Senda Darwin Biological Station: The Biological Wealth of the Chilean Forest



### Senda Darwin Biological Station: The Biological Wealth of the Chilean Forest



# Patagonia Station for Interdisciplinary Research: Studying at the Southernmost Frontier

Between fjords, rivers and lagoons in southern Chile, UC is developing an exceptional scientific center in an area essential for the study of GLOBAL CHANGE AND LOCAL BIODIVERSITY.



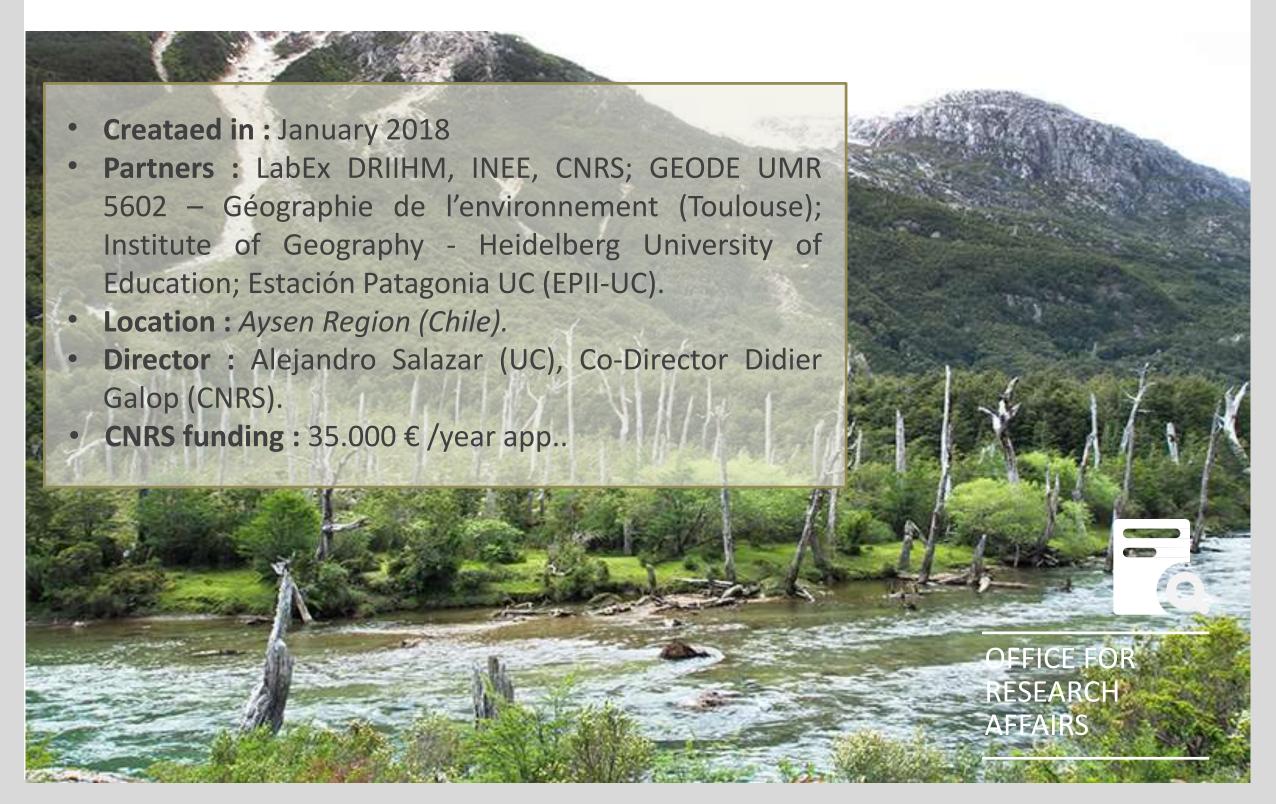
# Patagonia Station for Interdisciplinary Research: Studying at the Southernmost Frontier



# Patagonia Station for Interdisciplinary Research: Studying at the Southernmost Frontier



#### Observatoire Hommes – Milieux International OHM.I Patagonia – Bahía Exploradores

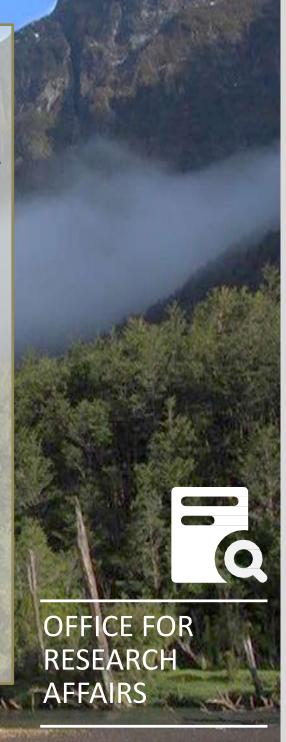


#### Observatoire Hommes – Milieux International OHM.I Patagonia – Bahía Exploradores

The relationship with CNRS starts in 2016 with preliminary collaboration at Exploradores Valley. This OHM.I focuses on the value and transmission of studies performed in Patagonian environments, interdisciplinary research, and environmental and land monitoring of the Exploradores Valley.

#### The main research objectives are:

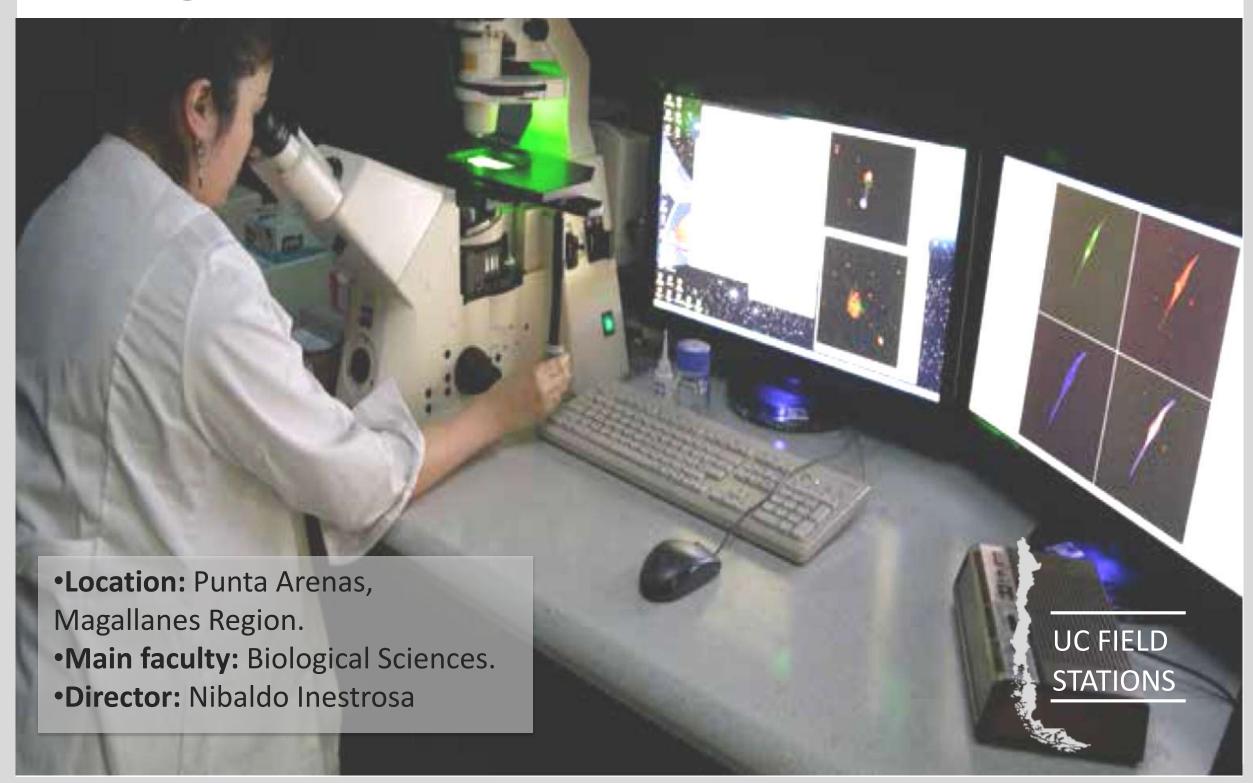
- To understand how environmental conditions and colonization history drive phenotypic variability of invasive species.
- To map the advancing fronts of forest edge and areas occupied by invasive plants using complementary space technologies.
- To evaluate the biogeochemical processes that originate the formation of soils and succession of vegetation in the Exploradores Valley.
- To understand the evolution and geographic environmental adaptation of the Valley via socio-environmental dynamics.



### Center of Excellence of Biomedicine in Magallanes: Patagonia, Medicinal Land



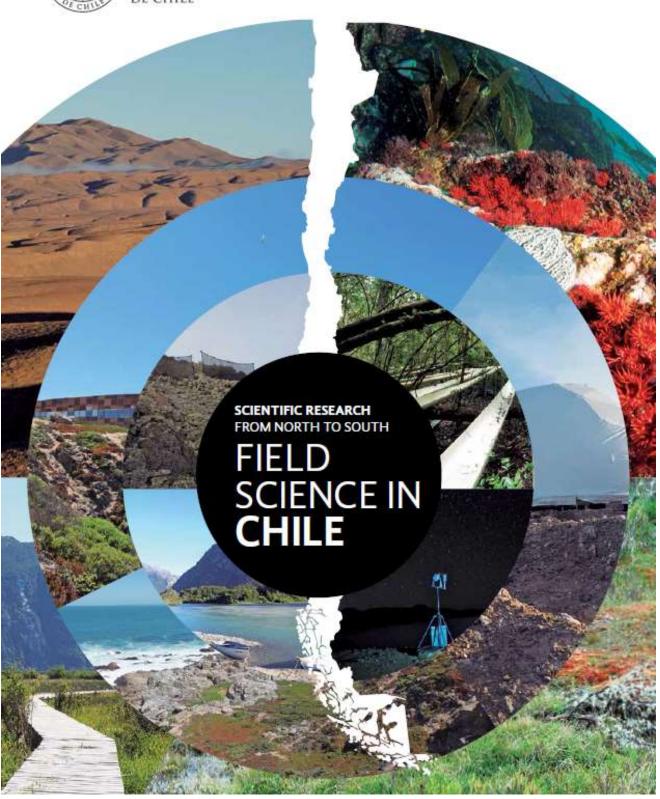
# Center of Excellence of Biomedicine in Magallanes: Patagonia, Medicinal Land



#### **Cape Horn Subantartic Center**

















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