

# **TARP-02** Deployment

USACH INACH IVIC



#### Acknowledgemets

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#### TARP-02 Deployment (2015-2016)

Early 2015, the University of Santiago in close collaboration with the Chilean Antarctic Institute (INACH), deployed its second Transportable Antarctic Research Platform (TARP-02) on King George Island (62° 12' S; 58° 57' W, Antarctic Peninsula).

The platform became operational early 2016 supporting state-of-the-art spectral measurements of the solar irradiance aimed at the retrieval of the total ozone column (TOC), the aerosol optical depth (AOD), the precipitable water (PW), and the cloud modification factor (CMF). These parameters are expected to change in the upcoming decades as a consequence of both the ozone layer recovery and climate change (CC).

The team in charge of the TARP deployment was led by Raul R. Cordero from the University of Santiago and included three researchers from the Instituto Venezolano de Investigaciones Científicas (IVIC). The IVIC team was led by Juan A. Alfonso. The TARP-02 joined the TARP-01 deployed by the University of Santiago in 2013.

For further details, please visit www.antarctica.cl.





The influence of clouds can be assessed by comparing measurements (see red curve) with irradiances computed assuming cloudless conditions (see blue curve).





### King George Island

Let's research South





![](_page_8_Picture_0.jpeg)

### Getting there

Sailing the Drake Passage

![](_page_9_Picture_2.jpeg)

![](_page_10_Picture_0.jpeg)

![](_page_11_Picture_0.jpeg)

#### The Platform

At the state-of-the-art

![](_page_12_Picture_2.jpeg)

![](_page_13_Picture_0.jpeg)

![](_page_14_Picture_0.jpeg)

![](_page_15_Picture_0.jpeg)

#### Wild Life

Embedded in Nature

![](_page_16_Picture_2.jpeg)

![](_page_17_Picture_0.jpeg)

![](_page_18_Picture_0.jpeg)

## The Team

Fitted with a cool mind

![](_page_19_Picture_2.jpeg)

![](_page_20_Picture_0.jpeg)

![](_page_21_Picture_0.jpeg)

![](_page_22_Picture_0.jpeg)

![](_page_23_Picture_0.jpeg)

#### Our Team

José Jorquera Marta Caballero Edgardo Sepulveda Braulio Valdevenito Sergio Correa Pedro Llanillo José Manuel Azocar Juan Manuel Carrera Juan A. Alfonso Raúl R. Cordero

![](_page_24_Picture_0.jpeg)

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