What is SO-CHIC?

SO-CHIC (Southern Ocean Carbon and Heat Impact on Climate) is an EU-funded project

which began in November 2019.

What is the aim of SO-CHIC?

To contribute to reducing uncertainties in climate change predictions, the overall objective

of SO-CHIC is to understand and quantify the variability of heat and carbon budgets in the

Southern Ocean through an investigation of the key processes controlling exchanges

between the atmosphere, ocean, and sea ice using a combination of observational and

modelling approaches.

Why Southern Ocean?

Because the Southern Ocean is one of the main regulators of the global climate by

controlling heat and carbon exchanges between the atmosphere and the ocean. Rates of

climate change on decadal time scales ultimately depend on oceanic processes taking

place in the Southern Ocean, yet too little is known about the underlying processes.

How is SO-CHIC organized?

The activities of SO-CHIC are methodologically organized as Work Packages (WP),

which define separate research and innovation activities within the project. These include

following: Air-sea fluxes (WP1), Upper-ocean ventilation pathways (WP2), Deep-ocean

ventilation pathways (WP3), Abrupt large polynya events shortcutting conventional

pathways (WP4), Impact on the coupled climate system (WP5), Variability and trends of

heat and carbon uptake and storage (WP6), Data management and connection with climate

services (WP7), and Project management and dissemination (WP8).

What is the impact of SO-CHIC?

SO-CHIC is expected to have major quantifiable impacts on climate science, European

research capacity, governance, value creation through innovation and services, and

towards the United Nations Sustainable Development Goals (SDGs).

Who does SO-CHIC collaborate with?

SO-CHIC is networking within the EU Polar Cluster (a network of Horizon 2020 and a

Framework Programme 7 funded polar projects) and is additionally supported by the

European Polar Board (EPB) and the Svalbard Integrated Observing System (SIOS).

This project has received funding from the European Union’s Horizon 2020 research and

innovation programme under grant agreement N°821001.

Where can I follow activity and events of SO-CHIC?

On the website: http://www.sochic-h2020.eu/

Twitter: @SO\_CHIC\_EU

Instagram: @so\_chic\_eu

Many of the webinars organized by SO-CHIC are available on

YouTube: SO\_CHIC https://www.youtube.com/channel/UCttAc0nxl4091-UU6tNliHw

How can I contact SO-CHIC?

You can send an email to following address: contact@sochic-h2020.eu