ACCC Flagship
— from deep scientific understanding to practical solutions

OBJECTIVES FOR THE FLAGSHIP TERM 2020-2024

1. To provide beyond state-of-the-art scientific knowledge on two of the most urgent global Grand Challenges, climate change and deteriorating air quality

2. To establish a platform (ACCC Service Portal) to collect big data from comprehensive observations and multiscale models to be delivered to various stakeholders

3. To co-create science-based solutions for guiding the world toward climate neutrality

From 2020 to 2024, the Atmosphere and Climate Competence Center (ACCC) is working towards a new national and international business ecosystem for atmospheric and environmental sciences by transforming excellent science into solutions.
ACCC Research and Impact

The ACCC consortium brings together the scientific knowledge of the ACCC partners (UH, FMI, UEF, TAU) and the needs and expertise of 40 stakeholders. As a national Flagship, ACCC will support Finland to become an internationally leading expert and provider of technological solutions and data services relevant to climate change.

In practice, the ACCC coordinates its work via its Research and Impact Programs.

The three Research Programs consist of:
1. Quantifying and activating the potential of land-based climate change mitigation
2. Quantifying the air quality-climate interactions and their impacts
3. Climate change impact and adaptation

The Research Programs serve as the framework for ACCC collaborations with multistakeholder partners to deliver knowledge-based actions and solutions through its Impact Programs.

The Impact of ACCC will be to increase competitiveness and solve sustainability challenges through proactive research, development and innovation collaboration and partnership with policy and business sectors.
ACCC Flagship — profile

- International top science on Atmosphere – Earth surface interactions
- Nature/Science publications
- ERC projects
- Center of excellence in 2002-2019
- Multidisciplinary and wide global collaboration network institutes in 55 countries
- Global initiatives like Global SMEAR and Pan-Eurasian Experiment
- Leading role in developing European environmental research infrastructures: ICOS, ACTRIS, eLTER
- Increasing business collaboration and new spinn-offs
- Science diplomacy
  e.g. in China, Russia and the arctic region