

# Overview of Bolin Centre Funding and Impact 2025

## Introduction

In 2025, the Bolin Centre continued to provide strategic support for climate research across Stockholm University and partner organisations, including SMHI and KTH. The funding supported research positions, climate modelling and numerical model development, research infrastructure, doctoral and postdoctoral training, and interdisciplinary collaboration across the Centre.

## Financial support overview

The total budget for 2025 was approximately 24 MSEK, comprising 22.6 MSEK in Strategic Research Area (SFO) funding for the Bolin Centre, 1 MSEK for national climate-modelling coordination through NAISS, and 0.4 MSEK in IMI funding supporting the Tellus journal.

Additionally, approximately 1,4 MSEK was allocated to IGV, around 1,7 MSEK was transferred to NG, about 1,2 MSEK was allocated to MISU, and approximately 6,2 MSEK remained at ACES to fund Directorate activities and salaries, including additional NAISS and IMI funds.

The Directorate additionally funded 4 shared Bolin Fellows (postdoctoral researchers) in collaboration with other departments, with a total contribution of 1,6 MSEK.

Overall, Bolin Centre funding supported more than 42 research, technical, coordination, and early-career researcher positions across the Centre.

## Achievements and activities:

### Climate modelling and Earth System Science

Climate modelling remained a major focus of Bolin Centre activities. Researchers at MISU, SMHI and KTH contributed to advances in Earth system modelling, atmospheric boundary layer modelling, numerical methods, and preparations for EC-Earth4 and CMIP7. The Centre also strengthened its role in national climate-modelling coordination through the establishment of a dedicated model coordination function and continued collaboration with NAISS.

### Research infrastructure and data resources

The Bolin Database continued to expand as a shared resource for climate and environmental research. Technical support at IGV, NG, and ACES contributed to database development, long-term observational data management, and specialised databases such as the Circum-Arctic Sediment Carbon Database (CASCADE). Researchers also contributed to national infrastructures including ACTRIS-Sweden and climate-monitoring activities.

### Early-Career Researcher support

A significant share of funding was invested in doctoral students, postdoctoral researchers, and seed-funded projects. Four jointly funded Bolin Fellows were supported during the year, while departments used Bolin Centre resources to strengthen doctoral training, attract new talent, and support future research leaders across multiple climate-related disciplines.

### Research collaboration

Research Themes (RT) continued to play a central role in fostering interdisciplinary collaboration. RT funding supported workshops, retreats, field campaigns, pilot studies, conference participation, and international collaborations. Activities ranged from climate modelling and Arctic research to biodiversity, ecosystem processes, environmental change, and cross-institutional modelling collaborations.

### Research capacity and external funding

Several departments reported substantial external funding linked to activities supported by Bolin Centre resources. At ACES alone, externally funded projects represented approximately 30 MSEK annually, while other departments highlighted successful recruitment, new research grants, and

expanded international collaborations. These examples demonstrate the leverage effect of Bolin Centre funding in strengthening Sweden's climate research capacity.

### **Publications and Database**

Researchers affiliated with the Bolin Centre contributed to at least 641 peer-reviewed scientific articles published during 2025. This figure is based on a comprehensive compilation from multiple bibliographic databases and publication sources and may underestimate the total output. The publications span a broad range of climate-related disciplines, reflecting the interdisciplinary nature of the Bolin Centre research community.

The Bolin Centre Database continued to expand during 2025, with 63 new datasets published during the year. The database now hosts more than 500 datasets and provides an important platform for preserving, sharing, visualising, and reusing climate and environmental research data.

### **National Modelling Coordination**

During 2025, the Bolin Centre further strengthened its role in coordinating climate-modelling activities in Sweden through collaboration with NAISS and the establishment of a dedicated model coordination function. These efforts aim to improve access to high-performance computing resources, support model development, and strengthen collaboration across institutions.

### **Conclusion**

In 2025, Bolin Centre funding continued to be instrumental in supporting climate research, research infrastructure, and scientific collaboration across six Stockholm University departments and partner organisations. The funding strengthened climate-modelling capacity, numerical model development, supported early-career researchers, maintained shared research infrastructure, and facilitated interdisciplinary collaboration through the Research Themes. By leveraging substantial external funding and supporting both scientific excellence and community building, the Bolin Centre continues to play a key role in advancing climate research in Sweden.