

# MEET A GEC RESEARCHER

# Grigory Nikulin

Together with the Rossby Centre at the SMHI, the International Project Office for CORDEX got the SSEESS North-South Travel Grant in 2015.

## How is your research linked to Global Environmental Change (GEC)?

Global Environmental Change has the strongest impact on our day-to-day life at regional and local scales. Climate modelling and analysis activities at the Rossby Centre aim to provide high-resolution climate information using state-of-the-art global and regional climate models. Such high-resolution climate information is an integral input to vulnerability, impact and adaptation (VIA) studies, which in turn provides guidance for decision-making at regional and local scales.

## Why are you interested in GEC research?

GEC research presents the cutting edge of climate science and it is very interesting to be involved in worldwide international research activities developing innovative approaches. We can really see how small and large international programmes focusing on climate change and variability contribute to capacity building in developing countries.

## What are the biggest challenges for you when working on GEC topics?

Miscommunication and misunderstanding between the climate modelling and the VIA community is one of our biggest challenges. The VIA users should get clear and comprehensive guidance on how to use the climate information provided by the climate modelling community; what can be done and what not.

This problem is widely recognised communities in co-production; together with the fact that only

**Job title:**  
Lead scientist or researcher

**Organisation:** Rossby Centre, SMHI

**Research area:** Regional climate modelling and high resolution climate information

**Favourite research trip:** Africa, Central and South America



involvement of both communities in co-production can help; however, there are still many hurdles to overcome in bringing the two communities together.

## Which of your projects did SSEESS support, and how?

The Coordinated Regional Downscaling Experiment - CORDEX ([www.cordex.org](http://www.cordex.org)) focuses on high-resolution climate information produced by different dynamical and statistical downscaling techniques. An initial focus in CORDEX was on Africa, which is particularly vulnerable to climate change and has a low adaptive capacity.

SSEESS, together with WCRP and SMHI, supported the first scoping CORDEX-Africa workshop (Johannesburg, 26-27 May 2015). The workshop was highly successful resulting in a list of clearly defined research questions to be addressed by African regional teams, a publication plan was initiated, training and infrastructure requirements were highlighted, and a plan was made for effective liaison with end-users and other relevant programmes and initiatives. The second and third CORDEX-Africa workshops will take place in November 2015 and February 2016 in Cape Town with funding from the Swedish Ministry of the Environment and Energy.

Read more about the SSEESS North-South Travel Grant and CORDEX on the next page





# SSEESS

## North-South Travel Grant

The purpose of the SSEESS North-South Travel Grant is to support networking between scientists from Sweden and developing countries. This grant can be used by scientists in Sweden to invite their research partners from developing countries to participate in:

- conferences
- workshops
- seminars
- network-building meetings
- other relevant research and research-related activities on Global Environmental Change (GEC) issues.

These events can take place either in Sweden or outside Sweden.

**More information at**  
[www.sseess.org/grants-and-more](http://www.sseess.org/grants-and-more)



# CORDEX

The CORDEX vision is to advance and coordinate the science and application of regional climate downscaling through global partnerships.

CORDEX goals are:

- to better understand relevant regional/local climate phenomena, their variability and changes, through downscaling
- to evaluate and improve regional climate downscaling models and techniques
- to produce coordinated sets of regional downscaled projections worldwide
- to foster communication and knowledge exchange with users of regional climate information.

The International Project Office for CORDEX (IPOC) is hosted by the Swedish Meteorological and Hydrological Institute (SMHI) at their headquarters in Norrköping, Sweden.



**More information at**  
[www.cordex.org](http://www.cordex.org)



# SSEESS

The Swedish Secretariat for Environmental Earth System Sciences (SSEESS) is a collaborative partnership between the Royal Swedish Academy of Sciences, FORTE, Formas, Vetenskapsrådet, and Sida.



On behalf of the members of the SSEESS partnership, the Secretariat acts as a Swedish link to Global Environmental Change (GEC) Research.

As a Swedish link to GEC research, SSEESS aims to increase the participation of Swedish researchers in international GEC research programmes and organisations.

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