

## ACSIS Community Launch meeting:

# Recent trends in the North Atlantic Climate System

Monday 5<sup>th</sup> December, Henry Wellcome Auditorium, 183 Euston Road, London

Major changes are occurring across the North Atlantic: in ocean and atmosphere temperatures and circulation, in sea ice thickness and extent, and in key atmospheric constituents such as ozone, methane and aerosols. Many observed changes are unprecedented in instrumental records. Changes in the North Atlantic directly affect the UK's climate, weather and air quality, with major economic impacts on agriculture, fisheries, water, energy, transport and health. The North Atlantic Climate System Integrated Study (ACSIS, [ncas.ac.uk/acsis](http://ncas.ac.uk/acsis)), funded by the Natural Environment Research Council, is one of NERC's new multi-centre long term science (LTSM) projects, with an overarching objective: To enhance the UK's capability to detect, attribute and predict changes in the North Atlantic Climate System.

ACSIS is hosting a Community Launch meeting, featuring a programme of expert speakers who will provide a diverse range of perspectives on the theme "Recent trends in the North Atlantic Climate System". The meeting will also include an overview of the ACSIS programme and data products, and an opportunity for community discussion about how the UK can make the most of the opportunities ACSIS presents.

**Pre-registration is required at:** <https://www.ncas.ac.uk/index.php/en/community-meeting-2016>

Time		
9.30	Registration	
Session 1 - Chair: Prof. Lesley Gray, NCAS		
10.00	Welcome	Prof. Rowan Sutton, NCAS
10.05 - 10.30	Overview of ACSIS	Prof. Rowan Sutton, NCAS
<b>Recent trends in the North Atlantic Climate System:</b>		
10.30 - 10.55	Atmospheric Circulation	Prof. Tim Woollings, Oxford
10.55 - 11.20	Ocean Circulation and properties	Dr. Penny Holliday, NOC
11.20 - 11.40	<b>Coffee</b>	
Session 2 - Chair: Dr. Alex Archibald, NCAS		
11.40 - 12.05	Atmospheric composition	Prof. John Pyle, NCAS
12.05 - 12.30	Aerosols, clouds and radiative forcing	Prof. Ken Carslaw, Leeds
12.30 - 12.55	Greenland Ice Sheet and Arctic Sea-Ice	Prof. Danny Feltham, CPOM & Reading
12.55 - 13.45	<b>Lunch</b>	
Session 3 - Chair: Dr. Bablu Sinha, NOC		
13.45 - 14.35	<u>Invited lecture:</u> Atlantic decadal variability – physical causes and climate impacts	Dr. Tom Delworth, GFDL, Princeton, U.S.A.
14.35 - 15.00	North Atlantic decadal prediction: progress, challenges and opportunities	Dr. Doug Smith, Met Office
15.00 - 15.20	<b>Tea</b>	
Session 4 – Chair: Dr. Jon Robson, NCAS		
15.20 - 15.35	ACSIS observational datasets	Dr. Alex Archibald, NCAS
15.35 - 15.50	ACSIS model simulations	Dr. Bablu Sinha, NOC
15.50 - 16.25	Panel discussion (chair: Rowan Sutton) How can ACSIS have maximum impact?	Dr. Tom Delworth (GFDL), Dr. Emily Shuckburgh (BAS), Prof. Adam Scaife (Met Office), Dr. Helen Brindley (NCEO), Prof. Alastair Lewis (NCAS)
16.30	Close	

