



U. of Exeter & Met Office research workshop on European storms



5-7 September 2011

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This research workshop aims:

- to bring together leading climate researchers on European and N. Atlantic extra-tropical cyclones in order to share recent research ideas;
- to develop ideas on how to consolidate and grow activity in this important area of research relevant for Europe.

Talks on the main issues will set the scene and then there will be small thematic breakout working groups for deeper discussion on research issues and questions. Breakout groups will reconvene and report back developments and ideas. Posters will be on display throughout the whole period around the main conference room.

More information:

<http://emps.exeter.ac.uk/mathematics-computer-science/research/xcs/interests/xstor/racewin/workshops/workshop1/>

Workshop programme

Monday 5 September 2011:

12:00-14:00: **Registration:** arrive, register and meet over a buffet lunch

Talks 1: Fundamental mechanisms. (Chair: Simon Brown)

14:00-14:05 Julia Slingo: *Welcome note*

14:05-14:15 David Stephenson: *Introduction and aims of the workshop.*

14:15-14:20 Lynsey McColl: *Housekeeping information*

14:20-14:40 David Brayshaw: *The Atlantic and Mediterranean storm tracks: understanding their basic structure.*

14:40-15:00 Gwendal Riviere: *A new dynamical interpretation of the role played by the left-exit region of the large-scale upper-level jet.*

15:00-15:20 Helen Dacre: *Quantifying the sensitivity of North Atlantic cyclone development to atmospheric precursor fields.*

15:20-15:40 Geraint Vaughan: *The DIAMET project: DIAbatic influence on Mesoscale structures in ExTropical storms.*

15:40-16:00 Sue Gray: *A regional climatology of sting jets and the extratropical cyclones in which they occur*

16:00-16:30 Tea/coffee/biscuits

16:30-17:30 1st Breakout group organisation

18:00- Dinner in Exeter town centre – Strada

Tuesday 6 September 2011:

Talks 2: Historical storm characteristics (Chair: Renato Vitolo)

09:30-09:50 Paul Della-Marta: *NE Atlantic and western European storminess since 1880.*

09:50-10:10 Margarida Liberato, Isabel Trigo and Ricardo Trigo: *Climatology of Extratropical Complex Systems using a SLP based cyclone detecting and tracking method*

10:10-10:30 Christoph Raible: *Comparison of different mid latitude cyclone detection and tracking methods using ERA interim*

10:30-10:50 Gregor Leckebusch: *Detection and assessment of severe, damage prone wind fields caused by severe cyclones in mid-latitudes, tropics and polar regions*

10:50-11:10 Theo Economou: *Extreme storminess: how deep can a low become?*

11:10-11:40 Tea/coffee/biscuits

11:40-12:40 1st Breakout group discussions

12:40-13:30 Lunch

Talks 3: Future predictions (Chair: Lynsey McColl)

13:30-13:50 Uwe Ulbrich: *Seasonal predictability of extra-tropical cyclones*

13:50-14:10 Adam Scaife: *Climate Change in the Storm Tracks: are projected changes about to change?*

14:10-14:30 Tim Woollings: *Ocean-atmosphere interaction in the Atlantic storm track response to greenhouse gases*

14:30-14:50 Joaquim Pinto: *European windstorms: diagnostics, downscaling and climate change*

14:50-15:10 Peter Knippertz: *A seamless approach to assessing model uncertainties in climate projections of severe European windstorms*

15:10-15:40 Tea/coffee/biscuits

15:40-16:40 2nd Breakout group discussions

18:00- Dinner in Exeter town centre – The Old Firehouse

Wednesday 7 September 2011:

Talks 3:	Remaining talks (Chair: David Stephenson)
10:00-10:20	Michael Graf: <i>The synoptic and mesoscale environment associated with European tornadoes</i>
10:00-10:40	Additional talk TBC
10:40-11:10	Tea/coffee/biscuits
11:10-12:30	Breakout groups: reporting back
12:30-13:30	Lunch
13:30	End of workshop

Notes:

Location:	Conference rooms 3 and 4, Met Office, Exeter, UK
No. of participants:	Maximum of 60 participants (invited only)
Travel dates:	Participants should plan to arrive by noon of Monday 5 September and leave on the afternoon of Wednesday 7 September. Travel and accommodation to be organised by each participant individually.

This workshop is kindly supported by the Axa Research Fund as part of the RACEWIN project “Regional Assessment of Climate impact on European WINDstorms”.



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