International Cooperative for Aerosol Prediction (ICAP) 10th working group meeting: Seamless model development: Aerosol modelling across timescales

Meeting Organizers and POCs:

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When and where:

June 6-8, 2018

at the Met Office (http://www.metoffice.gov.uk) in Exeter:

Met Office, FitzRoy Road, Exeter, EX1 3PB, UK.

ICAP Website:

http://icap.atmos.und.edu/

Rationale:

The International Cooperative for Aerosol Prediction is a grassroots community of aerosol modellers and data providers that provides a forum to discuss best practices and find optimal common solutions to the challenges of operational global aerosol prediction. ICAP meetings are functional operational working groups used to plan and coordinate global operational aerosol forecasting endeavours such as the ICAP multi-model ensemble (Sessions et al. 2015), and discuss particular themes of interest.

While the direct and indirect radiative effects of aerosol particles have long been a major focus in the area in climate research, the inclusion of aerosols in Numerical Weather Prediction (NWP) models has received less attention and development effort. Only recently has there been significant attention to the question of whether or not the inclusion of aerosol particles in NWP models can improve forecasts spanning the timescales of short to medium-range NWP to seasonal time-scales.

A further emerging trend among global model development centres is towards a 'seamless' approach to both NWP and climate model development, whereby models of the atmosphere and wider Earth system are developed, as much as possible, to meet the both climate and NWP applications.

The particular focus of the 10th working group meeting of the International Cooperative for Aerosol

Prediction (ICAP) is to explore the questions which arise from these trends. In particular, how do you best develop models for both NWP and climate applications that are consistent across regional to global scales, and how does this, or should this, work for aerosols in particular?

Beyond this, what can the ICAP community, with a focus on aerosol NWP, learn from the climate research community and vice versa; how can the improved simulation of aerosols and their interactions in climate models be pulled through to benefit NWP predictions? To what extent can improvements to the aerosol the direct and indirect aerosol affects impact NWP performance?

Who may attend:

Meetings and presentations are by invitation only by core member organizations and their operational partners. Applications are also received for a limited number of observers who have a direct stake in the proceedings. If you believe an appropriate invitation has been overlooked or you wish to apply for observer status, please contact the meeting organizers or a core member for sponsorship. Core modelling development organizations include: BSC, ECMWF, JMA, NASA GMAO, NOAA NCEP, NRL, and UKMO. Core remote sensing partners are from ESA, EUMETSAT, JAXA, and NASA.

The agenda is still under preparation. We expect to circulate a first draft by the end of April.

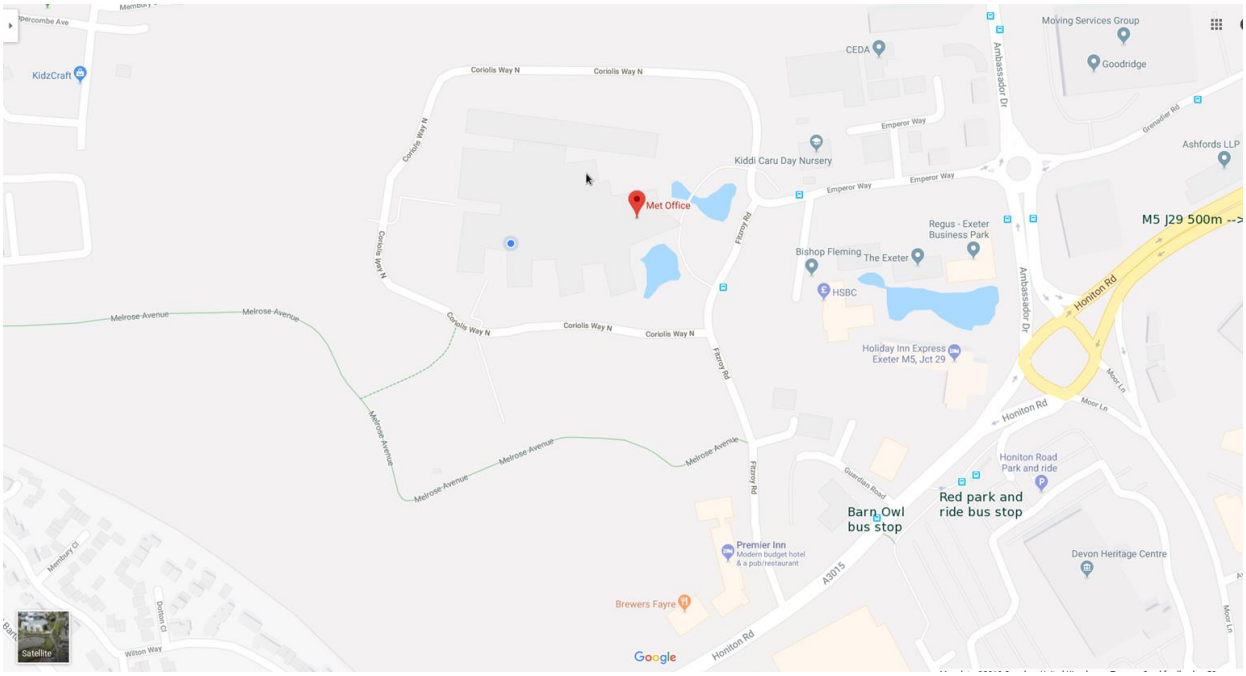
Meeting Location:

The meeting is held at the Met Office in Exeter, UK.

Exeter Airport has routes to/from major European hub airports such as Paris and Amsterdam, however you may find it easier to fly in to the major UK airports (London or Birmingham).

The easiest way to reach Exeter from London is to take a train from London Paddington station. The main train line into Exeter arrives at Exeter St. Davids station and the journey takes between 2 and 2 ½ hours.

By car, Exeter is at the end of the M5 motorway, approximately 3 hours drive from London Heathrow.



Hotel Information:

There are two convenient hotels in the immediate vicinity of the Met Office site:

Holiday Inn, M5 Junction 29:

https://www.ihg.com/holidayinnexpress/hotels/gb/en/exeter/exeuk/hoteldetail

Premier Inn, M5 Junction 29:

https://www.premierinn.com/gb/en/hotels/england/devon/exeter/exeter-m5-j29.html

A number of hotels are also available for those wishing to stay in Exeter itself and a number of regular bus routes are available to the Met Office.

Mercure Exeter Rougemont Hotel, Queen Street, Exeter: an historic building in a central location.

https://www.accorhotels.com/gb/hotel-A0H6-mercure-exeter-rougemont-hotel/index.shtml

Old White Hart, South Street, Exeter: another historic hotel, parts of this pub/hotel date from the 1400s.

https://www.whitehartpubexeter.co.uk/

Jurys Inn, Western Way, Exeter: a modern hotel just outside the city centre, but by the main bus station.

https://www.jurysinns.com/hotels/exeter/

Mercure Exeter Southgate Hotel, Southernhay East, Exeter: a more expensive option, with more facilities.

https://www.accorhotels.com/gb/hotel-6624-mercure-exeter-southgate-hotel/index.shtml

Bus routes:

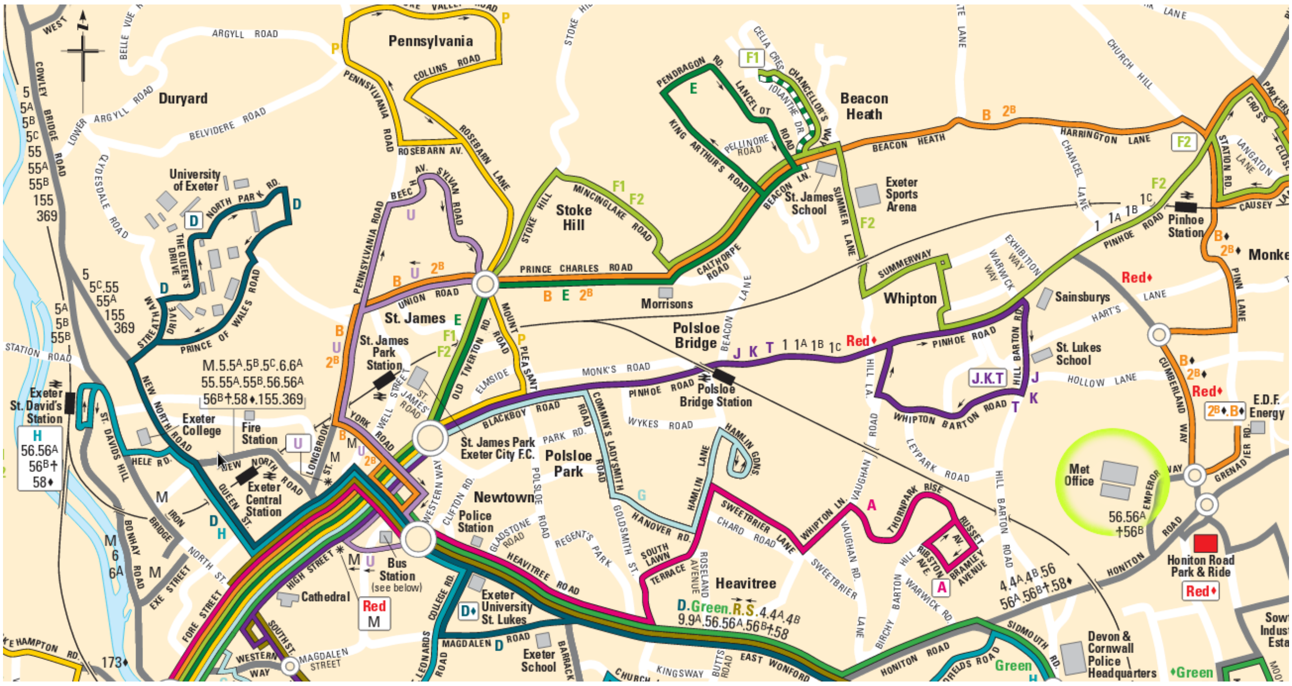
from Exeter St Davids Station to the Met Office: take a number 56 bus.

from Exeter City Centre to the Met Office:

- number 4 bus to the Barn Owl pub (a very short walk away), from the bus station.
- number 56 to the Met Office, from the bus station or stop 21 on Sidwell St (by John Lewis).
- A Red park and ride bus to the Honiton road car park (a short walk away), from stop 17 on Paris Street (by Next and the entrace to Exeter's underground passages), or stop 19 on Sidwell St (by John Lewis).

For more details of bus routes and maps, visit the Stagecoach website:

https://www.stagecoachbus.com/plan-a-journey



Pennsylvania
Duryard
University of Exeter
Stoke Hill
Beacon Heath
Exeter Sports Arena
St. James School
St. James
St. James Park Station
Morrisons
Polsloe Bridge
Polsloe Bridge Station
Whipton
Sainsburys
St. Lukes School
Pinhoe Station
Exeter St. David's Station
Exeter College
Fire Station
Exeter Central Station
St. James Park Exeter City F.C.
Polsloe Park
Newtown
Police Station
Bus Station (see below)
Cathedral
Exeter University St. Lukes
Exeter School
Heavitree
Met Office
E.D.F. Energy
Honiton Road Park & Ride
Devon & Cornwall Police Headquarters
PRINCE CHARLES ROAD
PINHOE ROAD
HEAVITREE ROAD
BEACON HEATH
HARRINGTON LANE
MONK'S ROAD
BLACKBOY ROAD
SIDMOUTH RD.
HONITON ROAD
EAST WONFORD
MAGDALEN ROAD
HIGH STREET
FORE STREET
COWLEY BRIDGE ROAD
NEW NORTH ROAD
PRINCE OF WALES ROAD
PENNSYLVANIA ROAD