

- ○ Local Centre Meetings ^[1]
- South East Local Centre ^[2]

Date: Wednesday 13
November 2019

Time: 19:00 - 20:30

Location:
University of Reading
Whiteknights, Reading RG6
6AH

Email:

southeast@rmets.org ^[3]

SPEAKER | Dominic Jones
TITLE | Fantastic large-scale
atmospheric structures and
where to find them

ABSTRACT | In my talk I'll be
outlining a novel technique to
extract mode structures from
atmospheric timeseries data
and the useful properties
these "Empirical Normal
Modes" possess. I will
describe a test of the
technique's robustness and
show its results for a simplified
experiment, highlighting the
properties of the modes
extracted from a simulated
atmospheric state.

SPEAKER | Agnieszka

Walenkiewicz

TITLE | Remote sensing of thermal plumes around the British coast.

ABSTRACT | This PhD project focuses on high-resolution remote sensing of sea surface temperatures (SST) in coastal zones. The project has industrial sponsorship (from EDF Energy) and focuses on investigating thermal plumes from major coastal installations, such as nuclear plants. The aim is to use satellite data to improve our understanding of coastal thermal environments and industrial plumes, working with the EDF Energy company to study sites around the UK and across Europe.

Coolant systems in major coastal installations use sea water which is then released back into coastal environments at a higher-than-ambient temperature, with differences as great as 10 degrees. Satellite-based sensors make thermal observations at a spatial resolution of 100 m to 1 km, enabling us to identify these coastal features, and providing a unique opportunity to study from space the problem of thermal pollution of waters caused by nuclear power plants. Using a combination of high-resolution sensors enables us to detect better the amount of water affected by the thermal plume in the coastal regions as well as the site's tidal regimes.

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