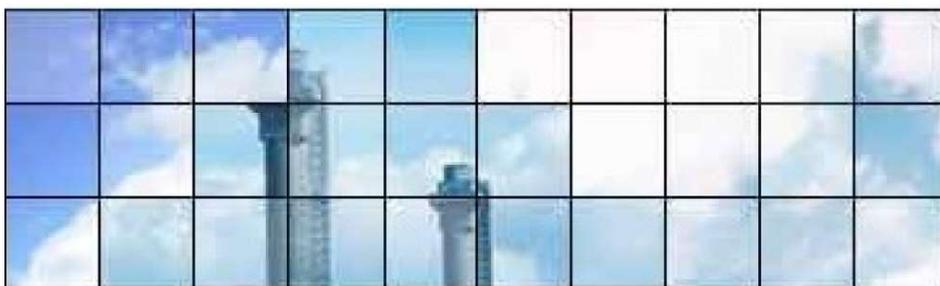# ADMLC

Atmospheric Dispersion Modelling Liaison Committee

Webinar: Satellite-based monitoring and atmospheric dispersion modelling as complementary techniques

14:00-16:30 BST Thursday 27 May 2021

The interface between satellite-based monitoring and atmospheric dispersion modelling is an emerging and rapidly-evolving area of air quality & incident response assessments. This webinar will "set the scene" on current and upcoming satellite monitoring techniques, and will explore how satellite data and dispersion modelling can be used together to give better information on air quality and hazardous releases. The webinar aims to bring together experts from across a range of applications, to share information, knowledge and experience, to identify challenges and opportunities, and to see if learning from one area can benefit another. Presentations include:

Introduction
- **Claire Witham** (Met Office) "Introduction to satellite data for dispersion modelling"

Environmental and source surveillance
- **Andrew Brown** (National Physical Laboratory) "Application of satellite air quality and greenhouse gas measurements to regulatory activities: preliminary studies" [work delivered on secondment to the Environment Agency]
- **Dan Potts** (University of Leicester) "Smarter analysis of satellite data for air quality regulators"
- **Roger Timmis** (Environment Agency) "Using dispersion modelling to select satellite air-quality data with optimal signal-to-noise ratios for pollutant sources"

Hazard prediction and incident response
- **Murray Purves** (Riskaware) "Space-based data for urban hazard prediction"
- **Scott Bradley** (DTRA) and **Joel Howard** (Dstl) "Comparison of SCIPUFF Predictions to SO2 Measurements from Instruments on the MetOp- A, MetOp-B, Aura and Suomi Satellites from the 2016 Fire at Al-Mishraq"

The talks will be followed by a 30 minute discussion session. The ADMLC welcomes attendees from the dispersion modelling and satellite monitoring communities. Our hope is that the webinar will bring together representatives from academia, industry, government departments and consultancies, and provide an opportunity for discussion and to share experiences gained in this field. The webinar is free to attend and will be hosted on Microsoft Teams. If you would like to register for the event, please email: admlc@phe.gov.uk.