



IAGOS Scientific Symposium on Atmospheric Composition

Long-term Observations by Commercial Aircraft

October 17-19th 2016

Manchester, UK



The University of Manchester



National Centre for
Atmospheric Science

NATURAL ENVIRONMENT RESEARCH COUNCIL

First Announcement

We are pleased to present the first announcement for the 2016 IAGOS Scientific Symposium on Atmospheric Composition. The goal of the symposium is to present and discuss new scientific research in the area of atmospheric composition, processes and trends based on over 20 years of repetitive commercial aircraft observations by IAGOS-CARIBIC and IAGOS-CORE and with a view to highlighting their new findings and to promote use of this scientific capability across the climate community.

Trends in climate change, air quality, the impacts of aerosol and clouds, stratospheric ozone depletion and the oxidizing capacity of the atmosphere are scientific problems that require detailed long-term observations of chemical composition throughout the atmosphere on a global scale. By providing long-term routine observations in the upper troposphere, lower stratosphere (UTLS) and vertical profiles over the world's major cities for more than two decades, IAGOS has provided an important tool to investigate and monitor atmospheric composition trends and processes whilst extending the scope and application of surface and satellite observations.

Scientific Symposium:

12:00 17th – 13:00 19th October 2016

There will be plenary sessions with 15-minute talks and a poster session. Each session will be introduced by an invited speaker highlighting key scientific questions which IAGOS airborne observational databases have or can contribute to. The scientific symposium will cover the following research areas.

Sessions include:

- Aerosols and Climate
- UTLS Dynamics, Chemical Composition & Trends
- Reactive Trace Gases
- Water Vapour Clouds & Radiation
- Evaluation & validation of satellite and surface remote sensing
- Long-range transport of air pollutants
- New technical developments for airborne monitoring

A sponsored dinner will be proposed for the evening of the 18th.

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Organised and co-sponsored by:

IAGOS-AISBL

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