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# CEOI Showcase Innovations in Remote Sensing

Mick Johnson  
CEOI Director

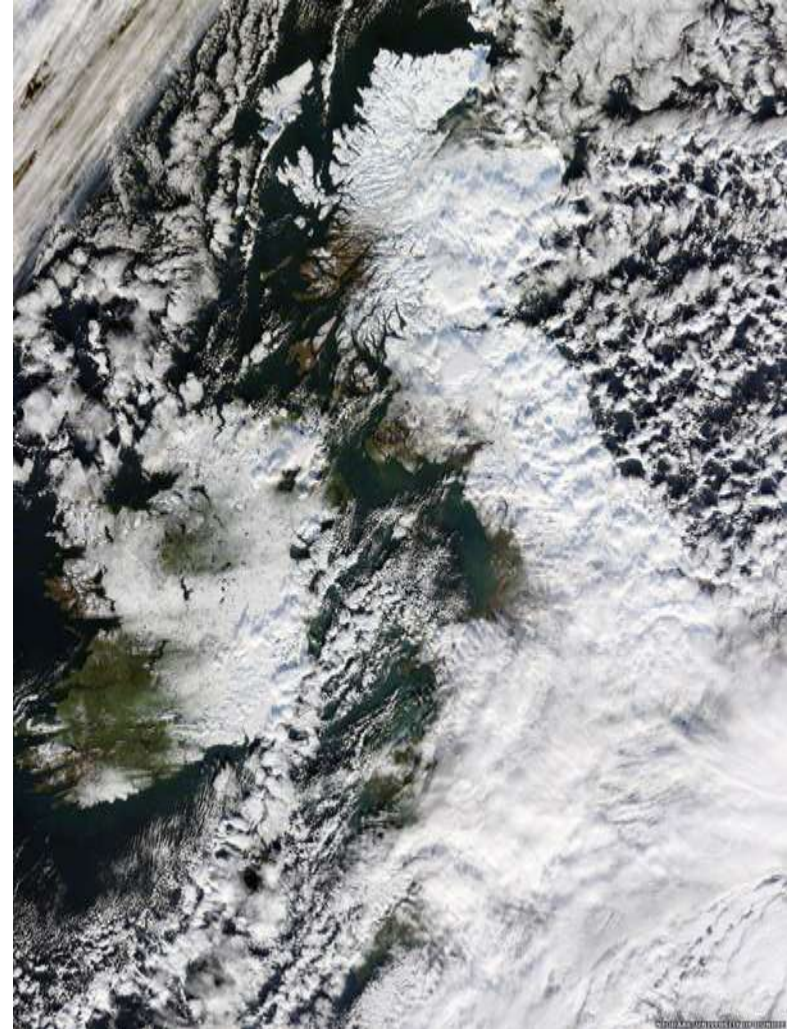
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23<sup>rd</sup> January 2013

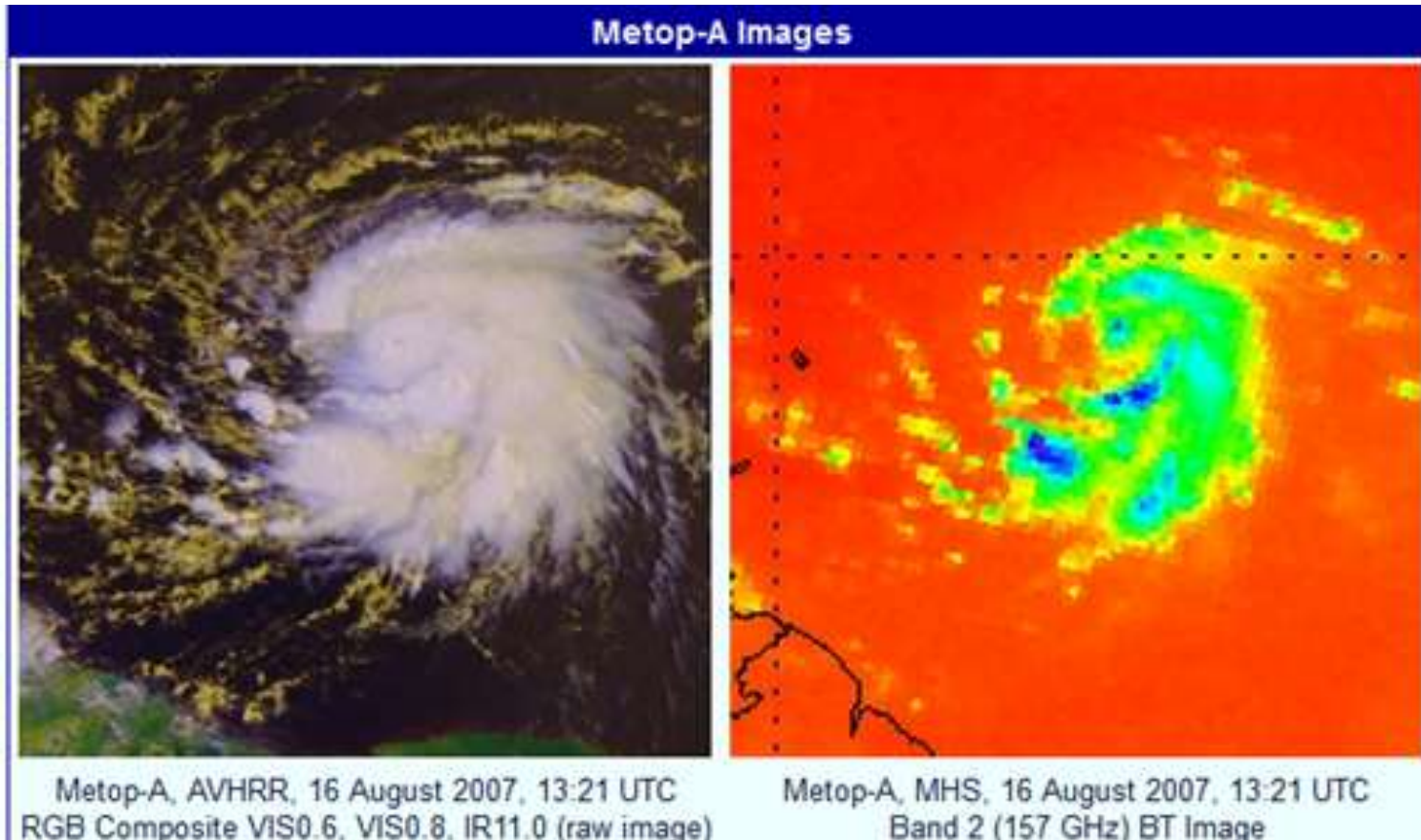
# Welcome

- Objectives for the day
  - Highlight collaborative opportunities emanating from remote sensing technologies in space
  - Outline the particular needs in Earth Observation for spin-in technologies
  - Showcase a number of CEOI projects
- Presentations and exhibition of CEOI projects
- Network opportunities throughout the day

“License, Collaborate, Supply”



# Why Earth Observation from space?

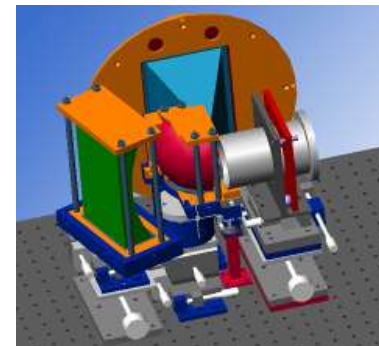


Hurricane Dean (Cat 2)

Courtesy Eumetsat

# What is the CEOI?

- UK Space Agency initiative ‘to boost UK capability and remain at the forefront of EO technology for space’.
  - Launched in 2007
  - Parallel industry investment, total approx £1.5M pa
- Programme focus on:
  - development of new EO instrumentation and technologies
  - horizon scanning and knowledge exchange
  - building highly capable academia/industry partnerships
  - training for next generation scientists and technologists
- Partnership led by Astrium with QinetiQ, STFC/RAL and University of Leicester







# CEOI Meetings and Workshops

Event	Date	Place
Instruments for UAVs, HAPs and CubeSats	10 July 2012	Nottingham
Joint NCEO/CEOI Conference	17-20 Sep 2012	Nottingham
Microwave Training Workshop	9 Nov 2012	RAL, Harwell
Calibration Technologies and Techniques	20 Nov 2012	RAL, Harwell
CEOI Knowledge Exchange Workshop	23 Jan 2013	London
Future EO Platforms Challenge Workshop	28 Feb 2013	Leicester

# Agenda

<b>10.00</b>	Welcome and introduction	Mick Johnson, CEOI
<b>10.10</b>	Overview of Current UK Space Policy, Future Technologies & Satellite Applications Catapult Centre	Tim Just, TSB
<b>10.30</b>	Outline of Technology Challenges and Needs	Paul Monks, University of Leicester
<b>10.45</b>	Collaborative opportunities and overview of CEOI funded projects	Mick Johnson, CEOI
<b>11.25</b>	Remote sensing techniques for Urban Air Quality Monitoring	Roland Leigh, University of Leicester
<b>11.40</b>	Geostationary SAR Mission	Steve Hobbs, University of Cranfield
<b>11.55</b>	Lightweight Optics, Bonded Mirror Structures	Peter MacKay, Gooch & Housego
<b>12.10</b>	Innovative Satellite On-Board Data Handling Techniques	Alex Wishart, Astrium
<b>12.25</b>	Detectors - NSTP Pathfinder Project	Stuart Cripps, Selex Galileo
<b>12.40</b>	Fully Integrated Hollow Waveguide Laser Heterodyne Radiometer (non-space applications)	Damien Weidmann, STFC RAL
<b>12.55</b>	Questions & Lunch	
<b>14.00-16.00</b>	Technology Showcase and Networking	