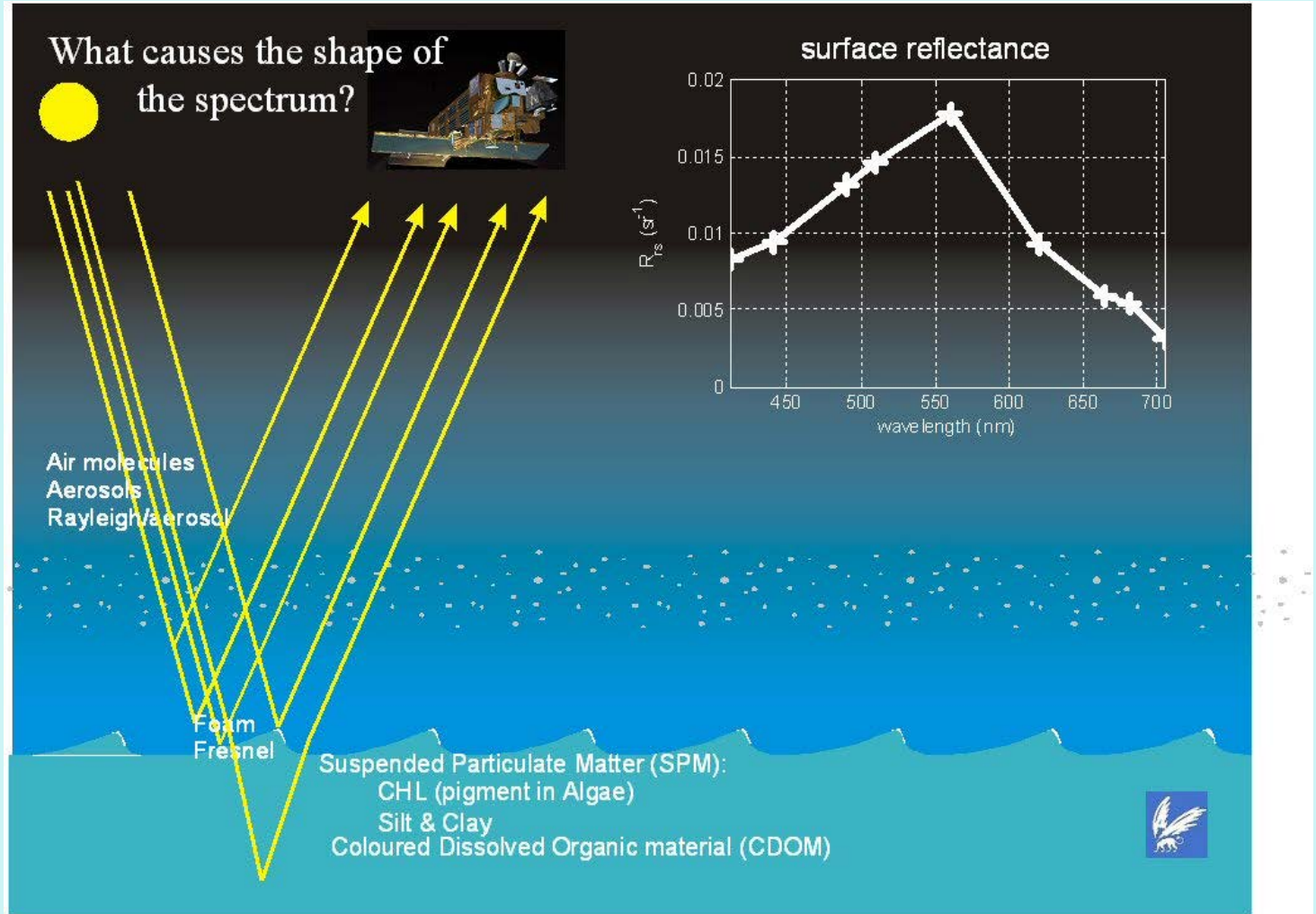


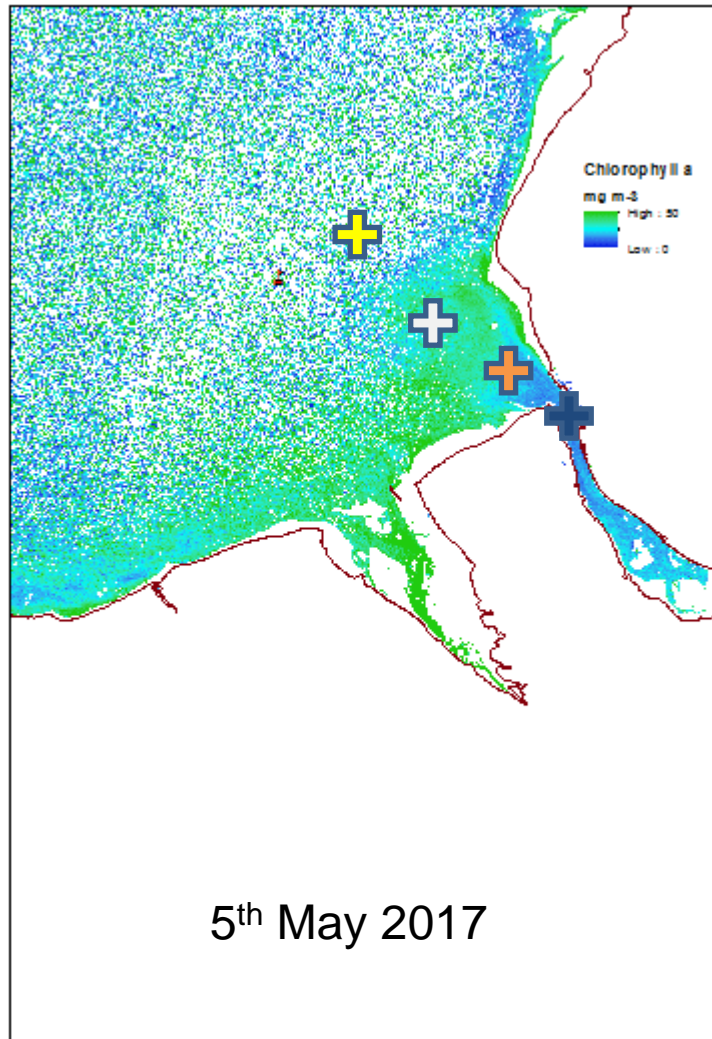
A new AERONET-OC site for the northern North Sea

Rodney Forster, Véronique Créach, Conaill Soraghan
IECS-UHULL, CEFAS, ORE Catapult

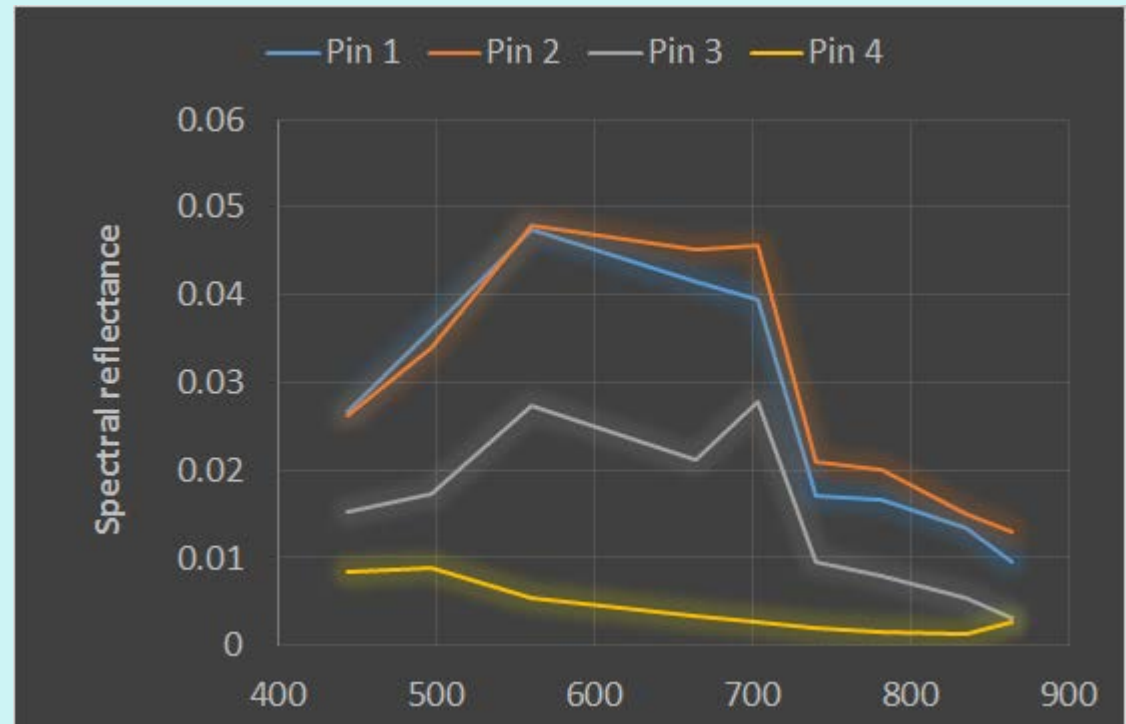
The HIGHROC project is funded by the European Community's Seventh Framework Programme (FP7/2007-2013) under grant agreement n° 606797. This communication represents only the authors' views. The European Union is not liable for any use that may be made of the information contained therein.

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HIGHROC user case studies: offshore wind, dredging, aquaculture, water quality







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AERONET

OCEAN COLOR

+ AEROSOL OPTICAL DEPTH | + AEROSOL INVERSIONS | + SOLAR FLUX | + OCEAN COLOR | + MARITIME AEROSOL

Web Site Feature | AERONET Data Synergy Tool - Access Earth Science data sets for AERONET sites

+Home

Ocean Color

- + AEROSOL/FLUX NETWORKS
- + CAMPAIGNS
- + COLLABORATORS
- + DATA
- + LOGISTICS
- + NASA PROJECTS
- + OPERATIONS
- + PUBLICATIONS
- + SITE INFORMATION
- + STAFF
- + SYSTEM DESCRIPTION

OCEAN COLOR

The Aerosol Robotic Network (AERONET), developed to sustain atmospheric studies at various scales with measurements from worldwide CE-318 distributed autonomous sun-photometers has been extended to support marine applications. This new network component called AERONET – Ocean Color (AERONET-OC), provides the additional capability of measuring the radiance emerging from the sea (i.e., water-leaving radiance) with CE-318 sun-photometers installed on offshore platforms like lighthouses, oceanographic and oil towers. AERONET-OC is instrumental in satellite ocean color validation activities through standardized measurements a) performed at different sites with a single measuring system and protocol, b) calibrated with an identical reference source and method, and c) processed with the same code.

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NEWS

In agreement with AERONET requirements, the CE-318-T series of instruments is the only one accepted for future AERONET-OC deployments. All current models used in the field will continue to be supported, but replacement of the analog models (Version 4) produced before 2004 is strongly encouraged.

- AERONET-OC data have been reprocessed on 14 February 2013 after revising the code to account for different regional system configurations. These changes may have led to minor changes in the water-related data products with respect to the previous version.
- A complete AERONET-OC data reprocessing was performed on 14 February 2012. In some cases, the removal of the 1020 nm Level 2.0 aerosol optical depth (AOD) prevented the retrieval of L_wn for all wavelengths; therefore, a reprocessing was necessary to recover L_wn values in the 412-870 nm

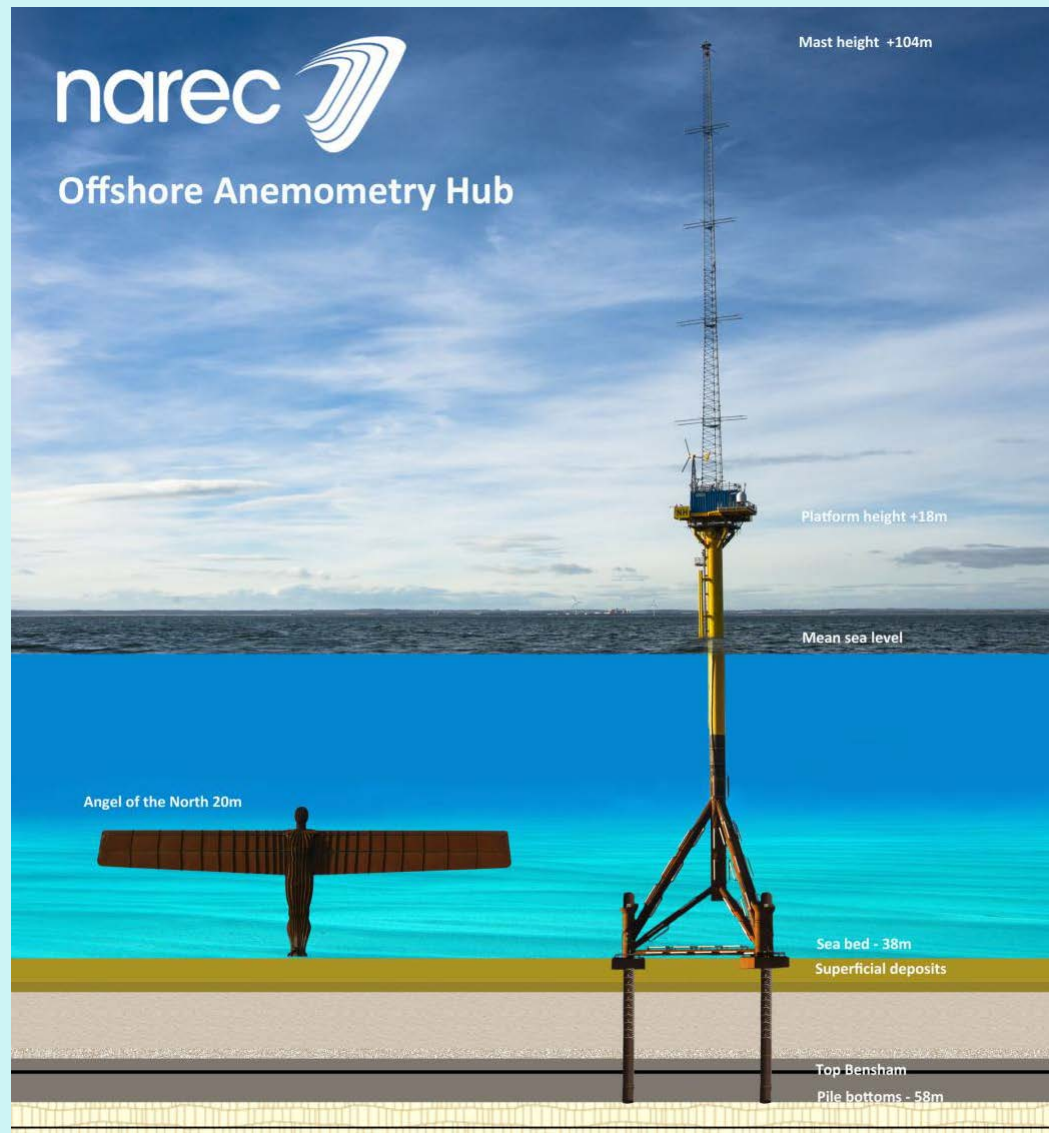
Tower Roughs, Thames



Haile Sand, Humber

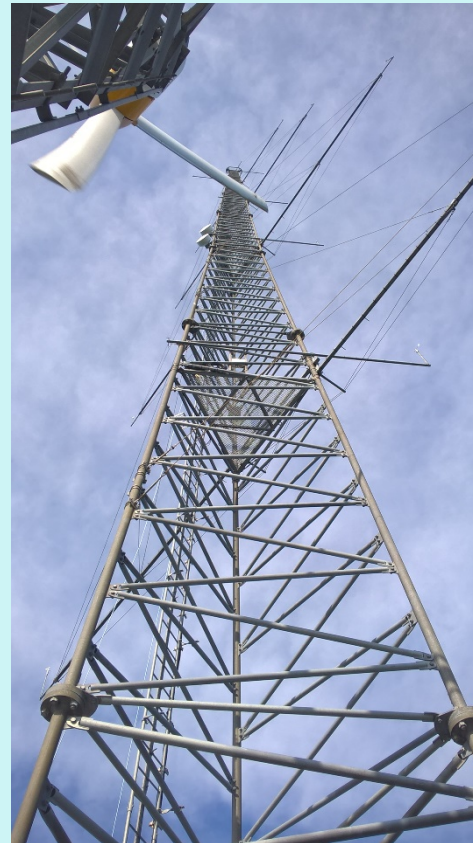


Search for a UK site (2)



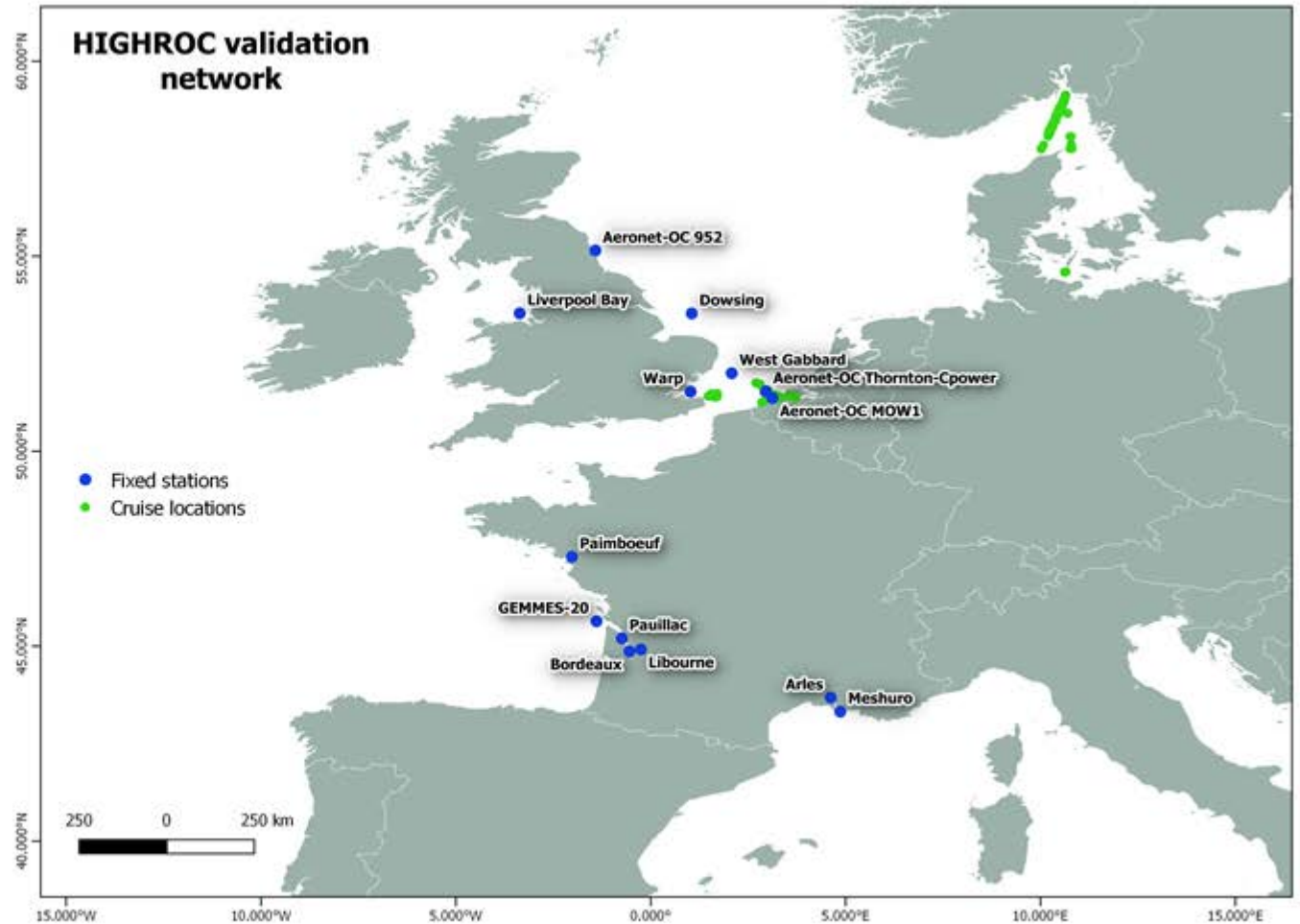
NOAH met mast, off Blyth, Northumberland

Detailed wind measurements for OWF



Deck at 21 m

24V power supply
Internet comms







Access via ladder – GWO/RUK training





View of IP65 housing with 24V power supply and local area network connection.



Fitting the metal plate with electrical components pre-assembled



robot

Control box

Panel PC

12V battery
for AERONET

U.P.S.

UPS 12V
battery



File Edit View History Bookmarks Tools Help

AERONET-Ocean Color Da... x +

← aeronet.gsfc.nasa.gov/cgi-bin/type_one_station_seaprisim_new?site=Blyth_NOAH&nachal=0&year=24&month=4&aero_water=0&level: Search

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AERONET DATA ACCESS

DATA SYNERGY TOOL

+ Data Display

AEROSOL OPTICAL DEPTH (V3)

+ Data Display

+ Download Tool

+ Web Service

AEROSOL OPTICAL DEPTH (V2)

+ Data Display

+ Download Tool

+ Download All Sites

+ Climatology Tables

+ Climatology Maps

+ Data Availability (L2.0)

AEROSOL INVERSIONS (V2)

+ Data Display

+ Download Tool

+ Download All Sites

SOLAR FLUX

+ Data Display

OCEAN COLOR

+ Data Display

Choose Display Options:

AERONET-OC Data Type: Lwn (with f/Q correction)

Lwn Level: Level 1.0 Level 1.5

Data Format: All points Daily averages

SELECT CHARTS FOR LARGER IMAGES

APR											
MAY											

Related Product Availability for Blyth_NOAH (select each day below):

- Show Back Trajectory Analyses - Availability - Disclaimer
- MPLNET Images - Availability - More Information
- Show TERRA-MODIS | AQUA-MODIS Rapid Response Images - Availability - More Information
- GIOVANNI AQUA-MODIS 9km Ocean Images GIOVANNI SeaWiFS 9km Ocean Images

Not Available						Not Available					
Choose day of MAY 2016											
1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31					

Lwn Level 1.0 data from MAY of 2016

Blyth_NOAH , N 55°08'47", W 01°25'15", Alt 19 n,
PI : Rodney_Forster, r.forster@hull.ac.uk
Level 1.0 Lwn Data from MAY 2016

Lwn_413nm	:<2.340>
Lwn_441nm	:<1.308>
Lwn_491nm	:<2.339>
Lwn_530nm	:<2.249>
Lwn_551nm	:<2.276>
Lwn_668nm	:<1.381>
Lwn_869nm	:<0.624>
Lwn_1018nm	:<0.583>

AERONET-OC DOWNLOAD

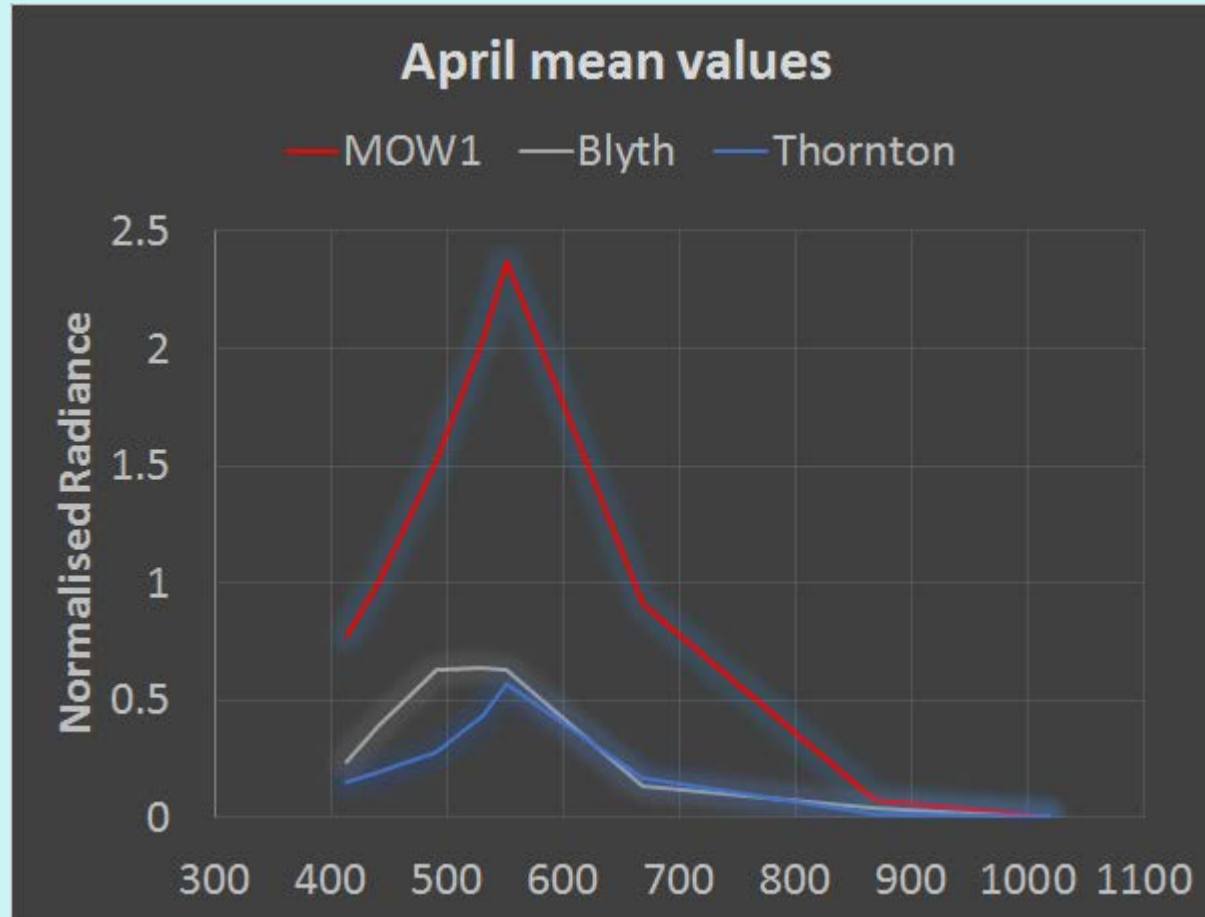
Lwn Level 1.0 data from MAY 2 of 2016

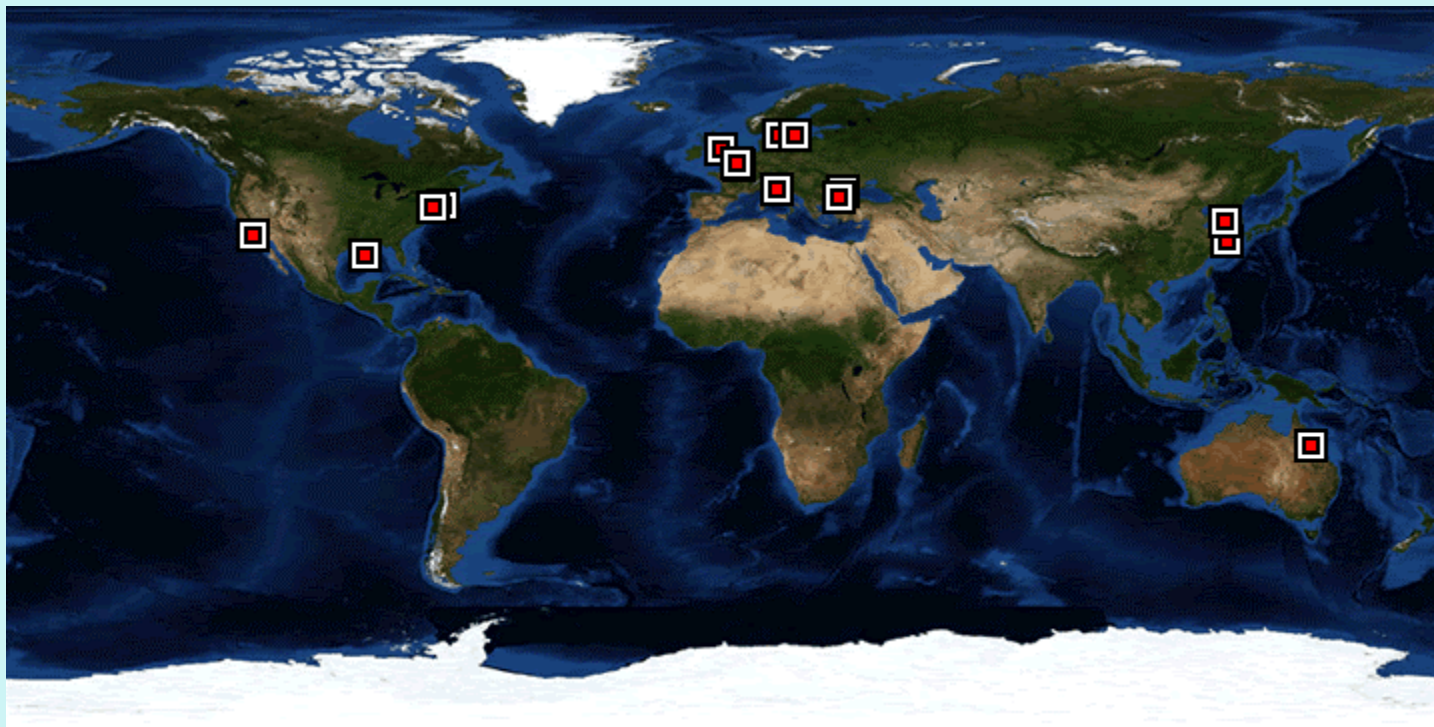
Blyth_NOAH , N 55°08'47", W 01°25'15", Alt 19 n,
PI : Rodney_Forster, r.forster@hull.ac.uk
Level 1.0 Lwn Data from MAY 2, 2016

Lwn_413nm	:<3.387>
Lwn_441nm	:<-0.620>
Lwn_491nm	:<2.581>
Lwn_530nm	:<2.216>
Lwn_551nm	:<2.216>
Lwn_668nm	:<1.765>
Lwn_869nm	:<0.670>
Lwn_1018nm	:<0.525>

AERONET-OC DOWNLOAD

solrad-net.gsfc.nasa.gov ODE





15 AERONET_OC sites operational in 2017