Andrew R. D. Smedley

PERSONAL INFORMATION

Email: Tel:	andrew.smedley@manchester.ac.uk +44 161 2755880	
ORCiD:	0000-0001-7137-6628	
ResearcherID:	N-9865-2014	
EMPLOYMEN		
PDRA at Centre for Atmospheric Science, University of Manchester, UK		2020-date 2018-2020
	PDRA at School of Mathematics, University of Manchester, UK	
PDRA at Centre for Atmospheric Science, University of Manchester, UK		2003-2018
Research Assis	tant at Atmospheric Physics Laboratory, UCL, UK	1998–1999
EDUCATION		
PhD in Atmospheric Physics, <i>The spectral scattering properties of cloud types.</i> 199		
UMIST, Manche	ester, UK.	
BA and MSc Ho	nours Degree in Natural Science (Physical): First / 2:1	1994-1998
University of Ca	` , , ,	
PROJECTS		0010 1 1
PDRA on "ICE-RF" 2018 – date		
-	cloud and radiative measurements; project aim is to improve est forcing and backscattering for climate models and satellite retrie	
	· ·	
· ,		2018-2020
Responsible for	geophysical modelling, spatial and data analysis for project expe	editions
PDRA on DEFRA	A UV and Ozone Baseline Measurements	2003-2017
•	continued operation, instrument calibration and data analysis fo	r Manchester
and Reading su	rface radiation and ozone monitoring sites	
EPSRC Analytic	Scattering project; Industrial RT investigations	2015-2017
EMRP SolarUV	EURAMET-funded project	2012-2014
	rcher Excellence Grant to apply DOAS retrieval technique to array	
AWARDS		
•	Service, CIE Division 6 Secretariat	2008-2013
Science Commi	unicator Award, <i>Researchers in Residence</i>	2005
TEACHING		
	ner for Anna Vaskuri, Aalto University	2018
Co-supervisor of Roberto Carrasco-Hernandez, successfully passed PhD viva		2013-2015
	MPhys final year project supervisions	

OTHER ACTIVITIES

Reviewer for a range of journals: *PCPB, IJClim, ACP, Atmos. Env., IPCC SR15*Key member of local organising committee *CIE 28th Session*2015

Research featured in range of media outlets: *BBC One Show, New Scientist, The Atlantic* etc.

RESEARCH INTERESTS

Radiative transfer in a changing climate – radiative impacts and remote sensing of the cryosphere – radiative properties and remote sensing of clouds – scattering – cloud morphologies – spatial and temporal variability – atmospheric retrievals – solar radiative transfer measurements and modelling

RESEARCH METRICS

Total Citations: 498
Total Altmetric: 708
H-Index: 12

SELECTED PUBLICATIONS

Zerefos C et al. (2017) Detecting volcanic sulfur dioxide plumes in the Northern Hemisphere using the Brewer spectrophotometers, other networks, and satellite observations. *Atmos. Chem. Phys.* **17**, 551-574. doi:10.5194/acp-17-551-2017

Evatt GW et al. (2016) A hidden layer of meteorites below the ice surface of Antarctica. *Nature Comms* **7**, 10679. doi:10.1038/ncomms10679

Smedley ARD et al. (2015) Assessment of a dual-channel array spectrometer for ground-based ozone retrievals. *J. Atmos. Ocean. Tech.* **32**(8), 1464–1477.

Kazantzidis A et al. (2015) A modeling approach to determine how much UV radiation is available across the UK and Ireland for health risk and benefit studies. *Photochem. Photobiol. Sci.* **14**, 1073–1081.

Walmsley L et al. (2015) Colour as a signal for entraining the mammalian circadian clock. *PLoS Biol.* **13**(4), e1002127. doi: 10.1371/journal.pbio.1002127

Smith HR et al. (2015) Cloud chamber laboratory investigations into the scattering properties of hollow ice particles. *J. Quant. Spectrosc. Radiat. Transf.* **157**, 106–118. doi: 10.1016/j.jqsrt. 2015.02.015

Petkov BH et al. (2014) Response of the ozone column over Europe to the 2011 Arctic ozone depletion event according to ground-based observations and assessment of the consequent variations in surface UV irradiance. *Atmos. Env.* **85**, 169–178. doi: 10.1016/j.atmosenv. 2013.12.005

Smedley ARD et al. (2012) Total ozone and surface UV trends in the United Kingdom: 1979 to 2008. *I. J. Clim.* **32**(3), 338–346. doi: 10.1002/joc.2275

Arola A et al. (2009) A new approach to correct for absorbing aerosols in OMI UV. *Geophys. Res. Lett.* **36**(22), L22805. doi: 10.1029/2009GL041137

Lindfors A et al. (2009) The PROMOTE UV record: toward a global satellite-based climatology of surface ultraviolet irradiance. *IEEE J. Earth Obs. Remote Sens.* **2**(3), 207–212.

Smedley ARD et al. (2009) Potential of wind turbines to cause epilepsy under different meteorological conditions. *Epilepsia* **51**(7), 1146–1151. doi: 10.1111/j.1528-1167.2009.02402.x

Pissulla D et al. (2009) Comparison of atmospheric spectral radiance measurements from five independently calibrated systems. *Photochem. Photobiol. Sci.* **8**, 516–527.

Smedley ARD et al. (2007) Application of a diode array spectroradiometer to measuring the spectral scattering properties of cloud types in a laboratory. *Atmos. Chem. Phys.* **7**, 5803–5813.

Smedley ARD et al. (2003) Small size particle determination by optical array probe oversampling. *J. Atmos. Ocean. Tech.* **20**(11), 1568–1575.