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## Publications

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### Non-refereed publications

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#### In press

Allen, M.J. & Wilson, W.H. (in press) Viruses of Algae and Mimivirus. In Acheson, N.H. (Ed.) *Fundamentals of Molecular Virology*. 2nd ed., John Wiley and Sons.

#### 2011

Bayindirli, C., Thomas, S., Gilbert, J., Tarran, G., Widdicombe, C., Woodward, M., Torres, R., Achterberg, E., Mingkwan, P. & Robinson, C. (2011) Temporal succession in microbial community structure and gene expression during a lagrangian study in the north west African upwelling. *ASLO Aquatic Sciences Meeting 2011*. San Juan, Puerto Rico.

#### 2010

Achterberg, E. (2010) Atmospheric impacts on productivity in the tropical north east Atlantic. *UK SOLAS finale meeting*.

Allen, I., New, A., Anderson, T. & Holt, J. (2010) Marine system modelling in Oceans 2025: towards seamless modelling (Abstract). *Oceans 2025 Annual Science Meeting*. Plymouth.

Brewin, R., Russell, P., Lavender, S., **Hardman-Mountford, N.**, **Sathyendranath, S.**, Aiken, J., Hirata, T. & Barciela, R. (2010) Decadal scale variability in phytoplankton functional types as seen from satellite remote sensing (Poster abstract). *Oceans 2025 Annual Science Meeting*. Plymouth.

Brownlee, C. (2010) Marine Biological Association: research reponse to Oceans 2025 (Abstract). *Oceans 2025 Annual Science Meeting*. Plymouth.

Ciavatta, S., Torres, R., **Smyth, T.** & **Saux-Picart, S.** (2010) Assimilation of MODIS chlorophyll data with a physical-ecosystem model of the Western English Channel (Extended abstract). In Barale, V., Gower, J.F.R. & Alberotanza, L. (Eds.) *Oceans from Space*. Venice, European Commission EUR 24324 EN, pp. 63-64.

Clare O'Neill, M.P.J.H. (2010) Irish Sea Liverpool Bay Observatory (Poster abstract). *Oceans 2025 Annual Science Meeting*. Plymouth.

Clark, D., **Miller, P.**, AMT & SOLAS-ICON (2010) New concepts challenging old paradigms: nitrogen cycling in the sunlit ocean (Poster abstract). *Oceans 2025 Annual Science Meeting*. Plymouth.

Dixon, J., Beale, R. & Nightingale, P. (2010) Methanol cycling unravelled on global scales (Poster abstract). *Oceans 2025 Annual Science Meeting*. Plymouth.

Gislason, S.R., Alfredsson, H.A. (2010) Sampling the Volcanic Ash from the Eyjafjallajokull Volcano, Iceland - A Personal Account, *Elements*, 6 (4), 269-270.

Highfield, A., Panayi, M., Walne, A., Ripley, S., **Miller, P.** & Schroeder, D. (2010) Molecular mining of archival samples reveals change in marine phytoplankton communities (Abstract). *Global Environmental Change in the Marine Environment*. Plymouth.

Highfield, A., Ripley, S., Schroeder, D., **Miller, P.** & Walne, A. (2010) Changes in *Emiliania huxleyi* assemblages over four decades (Poster abstract). *Oceans 2025 Annual Science Meeting*. Plymouth.

Hill, R. (2010), Remote Sensing and Photogrammetry Society 2011 conference promotion, *Sensed - The RSPSoc Newsletter*, No 37, July 2010.

Illingworth, A., Nicol, J., Bartholomew, K., Plant, R., Leoncini, G., Gray, S., Livings, D., Moore, B., Cole, S., Robson, A. (2010) Enhancing storm and flood forecasting using radar, data assimilation and ensemble Numerical Weather Prediction models, *Royal Meteorological Society Meeting - Flood Risk from Extreme Events*, Imperial College, London, October 2010.

Inall, M., Davidson, K. & Roberts, J.M. (2010) A multi-disciplinary study of topographically enhanced mixing on the NW European Shelf: research cruise Discovery 340B, July 2009 (Poster abstract). *Oceans 2025 Annual Science Meeting*. Plymouth.

Landman, W.A., Engelbrecht, F., Park, R., Bopape, M.J., Lötter, D. (2010) Atmospheric modelling and prediction at time scales from days to seasons, *Council for Scientific and Industrial Research 3rd Biennial Conference: Science Real and Relevant*, Pretoria, South Africa, 30 August - 01 September 2010.

- Le Cann, B., Serpette, A. & **Miller, P.** (2010) Three cyclonic eddies in the Bay of Biscay in 2005-2006 (Abstract). *XII International Symposium on Oceanography of the Bay of Biscay (ISOBAY)*. Brest.
- Martinez-Vicente, V., Shutler, J., Land, P., Tilstone, G. & Groom, S.** (2010) The Western Channel Observatory: application of historical data to operational remote sensing of suspended particulate matter. In Dahlin, H., Bell, M.J., Flemming, N.C. & Petersson, S.E. (Eds.) *Fifth International Conference on EuroGOOS*. Exeter, UK, pp. 473-478.
- Martinez-Vicente, V., Tilstone, G.H., Sathyendranath, S., Miller, P. & Groom, S.B.** (2010) A preliminary in-situ investigation of the living sources of optical particulate backscattering in the open ocean (Extended abstract). In Barale, V., Gower, J.F.R. & Alberotanza, L. (Eds.) *Oceans from Space*. Venice, European Commission EUR 24324 EN, pp. 163-164.
- Meunier, T., Barton, E.D., Torres, R. & Barreiro, B. (2010) Observations of Upwelling Filaments in the Southern North-West African Upwelling System : a Joint Effect of the Bottom Topography and the Offshore Eddy Field? *American Geophysical Union, Fall Meeting 2010*. San Francisco.
- Miller, P.I.** (2010) Oceanic front maps: towards a generic product for satellite oceanography (Extended abstract). In Barale, V., Gower, J.F.R. & Alberotanza, L. (Eds.) *Oceans from Space*. Venice, European Commission EUR 24324 EN, pp. 171-172. (Best poster award)
- Miller, P.I.** (2010) Satellite monitoring for harmful and nuisance algal blooms (Abstract). *UK-China Workshop on Harmful Algal Bloom Mitigation and Coastal Pollution Control in Hainan*. Hainan, China.
- Miller, P.I.** (2010) Simplifying satellite ocean front maps and time-series analysis for applications in fisheries management (Abstract). *SAFARI Remote Sensing & Fisheries International Symposium*. Kochi, India.
- Miller, P.I., Shutler, J. & Sims, D.** (2010) Oceanic fronts for fisheries management, and HAB monitoring for aquaculture protection (Abstract). *Oceans from Space*. Venice.
- Miller, P.I., Shutler, J., Mahdon, R. & Barciela, R.** (2010) Monitoring and predicting harmful and nuisance algal blooms using EO data and ecosystem forecasts (Poster abstract). *SAFARI Remote Sensing & Fisheries International Symposium*. Kochi, India.
- Miller, P.I.** (2010) Remote Sensing: what are all those people doing? *PML Seminar Series*.
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- Miller, P.I.** (2010) Oceanic fronts as a proxy for pelagic diversity: application to marine renewable site characterisation and marine protected areas. *An environmental research roadmap for the growing offshore renewable energy sector. Energy Generation & Supply - Knowledge Transfer Network*. Liverpool.
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- Nightingale, P. (2010) Production and fate of marine biogases. *UK SOLAS finale meeting*
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- Turley, C., Blackford, J., **Hardman-Mountford, N.,** Litt, E., Llewellyn, C., Lowe, D., **Miller, P.,** Nightingale, P., Rees, A., **Smyth, T., Tilstone, G. & Widdicombe, S.** (2010) Carbon uptake, transport and storage by oceans and the consequences of change. In Hester, R.E. & Harrison, R.M. (Eds.) *Carbon Capture: Sequestration and Storage*. Issues in Environmental Science and Technology, 29. Royal Society of Chemistry. doi:10.1039/9781847559715
- Watson, W. & Adams, M. (2010) *Design for Flooding: Architecture, Landscape, and Urban Design for Resilience to Climate Change*, John Wiley and Sons, 336 pp.
- Wheeler, G. (2010) The application of cellular and genomics technologies to understand biogeochemical processes (Abstract). *Oceans 2025 Annual Science Meeting*. Plymouth.
- Willis, P. (2010) UK Air Quality Forecasting Update, *9th UK National Air Quality Forecasting Seminar*, Imperial College London, 14 July 2010.
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- Allen, C., Fraser, A. (2009) Air Quality Forecasting: WRF-CMAQ model development for UK Air Quality Forecasts, *8th UK Air Quality Forecasting Seminar*, Birmingham, 16 July 2009.
- Baure, J.-F., Clarke, D., Fuller, P., Shough, M. (2008) Report on Aerial Phenomena Observed near the Channel Islands, UK, April 23 2007 – An independent report by UFO researchers.
- Besnier, J.-M., Cassé, V., Kasser, M., Lainé, R. & others (2009) *Objectifs Terre: La révolution des satellites*, Editions le Pommier, 187 pp.
- Blechschmidt, A.-M. (2008) A two year climatology of polar low events over the Nordic Seas from satellite remote sensing, *European Geosciences Union General Assembly 2008*, Vienna, Austria.
- Blechschmidt, A.-M. (2009) Studying polar lows with satellite data, *European Geosciences Union General Assembly 2009*, Vienna, Austria.
- Blechschmidt, A.-M. (2009) Studying polar lows with satellite data, *4<sup>th</sup> Extreme Weather Congress 2009*, Bremerhaven, Germany.
- Booker, H. (2009) Seabirds and climate change. *Southwest Marine Ecosystems 2009*. Plymouth.
- Brereton, T. (2009) Seabird and cetacean surveys in the western English Channel in 2009. *Southwest Marine Ecosystems 2009*. Plymouth.
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- Cook, A., Willis, P., Witham, C. (2008) Air Pollution Forecasting: A UK Particulate Episode from 23 to 24 January 2008 – A report produced by AEA Technology and the Met Office for Defra, Scottish Executive, Welsh Assembly Government and Department of the Environment Northern Ireland.
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- Farrington, A. (2009) 'Glasgow Academy Expedition to NE Greenland, 2009', *Annual Conference of the Scottish Arctic Club*, November 2009. (Presentation by a pupil on the expedition.)
- Gaffney, O. (2009) UK hit by coldest winter in 20 years, *NERC - Planet Earth*, Spring 2009, p3.
- Gwynne, N. (2009) 'The Glasgow Academy East Greenland Expedition 2009'. (Report on a Young Explorers' Trust approved school expedition to explore a remote Arctic area.)
- Hirata, T., Smyth, T., Shutler, J. & Miller, P.** (2009) Inherent Optical Property model for coastal waters. *CoastColour Project - First User Consultation Workshop*. Cork.
- Lavender, S. (2009) Optical Remote Sensing of the Hydrosphere: From the Open Ocean to Inland Waters. In Warner, T., Nellis, D. & Foody, G.M. (Eds.) *The SAGE Handbook of Remote Sensing*. SAGE.
- Lea, M. (2009) 'Krumme Langsø, Greenland 2009', *Annual Conference of the Scottish Arctic Club*, November 2009.
- Leoncini, G., Plant, R.S., Gray, S.L., Clark, P.A. (2009) Perturbation Growth at the Convective Scale, *European Geosciences Union General Assembly*, Vienna, Austria, April 2009.
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- Lonie, N., **Groom, S., Miller, P., Saux-Picart, S., Shutler, J.D., & Taylor, B.H.** (2009) NERC Earth Observation Data Acquisition and Analysis Service: Science area applications. *Remote Sensing and Photogrammetry Society 2009 Annual Conference*. Leicester, UK.
- Miller, P.** (2009) Satellite monitoring for harmful and nuisance algal blooms. *Marine Spatial Planning and Ecosystem-based Management*. Plymouth.
- Miller, P.** (2009) Satellite remote sensing of southwest waters in 2009. *Southwest Marine Ecosystems 2009*. Plymouth.
- Miller, P.** (2009) Visualisation of thermal fronts from satellite Earth observation data: a tool to assist mapping and distribution of basking sharks. *Basking Sharks – A Global Perspective*. Isle of Man.
- Miller, P., Barange, M. & Groom, S.** (2009) Earth observation for European research and policy needs. *Global setting for European environmental monitoring and observation: measuring what we must manage*. EEA Copenhagen.
- Miller, P.I.** (2009) Earth observation metrics for pelagic biodiversity hotspots: thermal fronts and chlorophyll-a. *Biodiversity Hotspots Workshop*. London.
- Miller, P., Tilstone, G. & Martinez-Vicente, V.** (2009) Remote sensing of ocean fronts and primary production at the Mid-Atlantic Ridge (Abstract). *MAR-ECO Project Workshop*. Kristiansand, Norway.
- de Mora, S. (2009) Overview of relevant PML research. *University of Exeter and Met Office Research Focus Meeting*. Exeter.

- Peacock, D. (2009) 'The British North Greenland Expedition 1952–54', *Annual Conference of the Scottish Arctic Club*, November 2009. (Presentation by a geologist on the expedition.)
- Remedios, J. (2009) A level Chemistry masterclass - "Earth Through Alien Eyes". Space Academy, National Space Centre.
- Sharples, J. & Simpson, J.H. (2009) Shelf Sea and Shelf Slope Fronts. *Encyclopedia of Ocean Sciences*. Oxford, Academic Press.
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- Whelan, G.M. (2008) Cloud-cover and radiation balance changes over Ireland due to Aircraft-induced Contrails (Poster), *4<sup>th</sup> Earth Observation Summer School*, ESA-ESRIN, August 2008.
- Wiltshire, B., Govindan, R., Astin, I., Evans, A.N. (2008) Combining Calipso and Meteosat Images to Study the Distribution of Atmospheric Dust, *IEEE International Geoscience & Remote Sensing Symposium*, Boston, Massachusetts, USA, July 2008.

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- Achterberg, E. (2008) Atmosphere-ocean interactions and marine productivity (Abstract). *13th Biennial Challenger Conference for Marine Science*. Bangor.
- Aiken, J. (2008) Aiken's Laws (Abstract). *Illuminating Ocean Ecosystems: a celebration of the research career of Prof. Jim Aiken*. Plymouth.
- Aiken, J., Hardman-Mountford, N., Barlow, R., Fishwick, J., Hirata, T. & Smyth, T. (2008) Functional links between bioenergetics and bio-optical traits of phytoplankton taxonomic groups; an overarching hypothesis with applications for ocean colour remote sensing (Abstract). *Marine Plankton: from Cells to Ecosystems. A celebration of the scientific career of Professor Patrick M. Holligan*. Plymouth.
- Allen, I. (2008) Quantification of the relative influences of atmospheric DUST and coastal UP-welling upon the production, biological mediation and air-sea gas exchange of DMS in the tropical NE Atlantic Ocean (Abstract). *UK-SOLAS Annual Science Meeting*. Southampton.
- Andersson, A., Klepp, C., Bakan, S., Graßl, H. & Lehner, S. (2008) The HOAPS Climatology: Global Ocean Fresh Water Fluxes from Satellite Data, and a Case Study of the Extratropical Transition of a Hurricane. *EXTROP Workshop – Winter School on Polar Lows*. Bergen, Norway.
- Balkestaal L., Monteiro, A., Gois, J. & Taesler, R. (2008) Os Efeitos da Intensificação dos Processos de Urbanização No Balanço Energético Local: Estudo De Caso No Pólo da Asprela (The Effect of the Intensification of the Processes of Urbanization in Local Energy Balance: A Case Study in the Polar region of Asprela). *2nd Congresso de Engenharia de Mocambique*. Maputo.
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- Blechschmidt, A.M. (2008) A two year climatology of polar low events over the nordic seas from satellite remote sensing. *EXTROP Workshop – Winter School on Polar Lows*. Bergen, Norway.
- Bracegirdle, T. (2008) How to identify polar lows objectively. *EXTROP Workshop – Winter School on Polar Lows*. Bergen, Norway.
- Brewin, R.J.W., Lavender, S., Hardman-Mountford, N., Barciela, R., Hirata, T., Barker, K. & Smyth, T. (2008) An analysis of bio-optical techniques for detecting phytoplankton functional types from space and their potential influence in our understanding of CO<sub>2</sub> fluxes (Poster abstract). *13th Biennial Challenger Conference for Marine Science*. Bangor.
- Burkill, P. (2008) Life and death in a coccolithophore bloom (Abstract). *Marine Plankton: from Cells to Ecosystems. A celebration of the scientific career of Professor Patrick M. Holligan*. Plymouth.
- Cook, A., Willis, P., Webster, H. & Harrison, M. (2008) UK Air Quality Forecasting: A UK Particulate Episode from 24th March to 2nd April 2007 – A report produced by AEA Technology and the Met Office for Defra, Scottish Executive, Welsh Assembly Government and Department of the Environment Northern Ireland.
- Crawford, P.S. (2008) High Rate Data Collection Platform Pre-Operational Prototyping Phase. *Report of the 36th Meeting of the Coordination Group for Meteorological Satellites*. Gran Canaria, Spain.
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- da Silva, A.J. (2008) An intermittent Northwest Iberian coastal current (Poster abstract). *EuroGOOS 2008: Coastal to Global Operational Oceanography: Achievements and Challenges*. Exeter.
- da Silva, A.J. (2008) NW Iberian coastal current: a feature of extreme freshwater and wind conditions (Abstract). *International Symposium on Effects of Climate Change on the World's Oceans*. Gijon, Spain.
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- Dixon, J.L., Nightingale, P. & Beale, R. (2008) Unravelling methanol cycling in NE Atlantic waters (Abstract). *13th Biennial Challenger Conference for Marine Science*. Bangor.

- Fishwick, J.R. & **Smyth, T.J.** (2008) Western English Channel Observatory as a test-bed for improving ecosystem forecasts (Poster abstract). *Illuminating Ocean Ecosystems: a celebration of the research career of Prof. Jim Aiken*. Plymouth.
- Fleming, A. (2008) Sat nav: a new satellite system to protect ships in the Southern Ocean. *Planet Earth*. pp. 30-31 (Spring).
- Green, M.J.A., Simpson, J.H., Thorpe, S.A., Rippeth, T.P., Osborn, T.R. & Nimmo Smith, A.W.M. (2008) The structure of turbulence in shelf seas from an Autosub perspective (Poster abstract). *13th Biennial Challenger Conference for Marine Science*. Bangor.
- Groom, S., Grant, M. & Knappertsbusch, M. (2008) Coccolithophore blooms in the ultraoligotrophic eastern Mediterranean (Abstract). *Marine Plankton: from Cells to Ecosystems. A celebration of the scientific career of Professor Patrick M. Holligan*. Plymouth.
- Hardman-Mountford, N. (2008) Can we really forecast the ocean? (Abstract). *13th Biennial Challenger Conference for Marine Science*. Bangor.
- Hardman-Mountford, N., Hirata, T., Moore, G.F. & others (2008) An operational UK air-sea carbon flux observation capability (CARBON-OPS) (Poster abstract). *Illuminating Ocean Ecosystems: a celebration of the research career of Prof. Jim Aiken*. Plymouth.
- Hardman-Mountford, N., Hirata, T., Richardson, K. & Aiken, J. (2008) Do ecological provinces exist in the ocean? (Poster abstract). *Illuminating Ocean Ecosystems: a celebration of the research career of Prof. Jim Aiken*. Plymouth.
- Harrould-Kolieb, E. & Savitz, J. (2008) Acid test: can we save our oceans from CO<sub>2</sub>? Washington, DC, OCEANA, pp. 29.
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- Holligan, P. (2008) Does the deep chlorophyll maximum (DCM) represent a violation of Aiken's Second Law of Oceanography? (Abstract). *Illuminating Ocean Ecosystems: a celebration of the research career of Prof. Jim Aiken*. Plymouth.
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- Malin, G. (2008) Investigation of near-surface production of iodocarbons - rates and exchanges (INSPIRE) (Abstract). *UK-SOLAS Annual Science Meeting*. Southampton.
- MCCIP (2008) Marine Climate Change Impacts Annual Report Card 2007-8. Lowestoft, (Front cover image) Ed. Dye, S.R., pp. 8.  
[Report Card](#)
- McFiggans, G. (2008) Integration of research on formation, evolution and role of cloud condensation nuclei in the marine environment (Abstract). *UK-SOLAS Annual Science Meeting*. Southampton.
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- Miehle, P., Haas, B. & Joneck, M. (2008) Klimawandel – Warum ändert sich unser Klima? (Global Warming – Why is our climate changing?). In *Environment*, B.S.O.f.t. (Ed.).
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