# Margaret j Yelland

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 44 papers | 2,085 citations | 304743 22 h-index | 289244 40 g-index |
| 49 all docs | 49 docs citations | 49 times ranked | 1821 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Ship-based estimates of momentum transfer coefficient over sea ice and recommendations for its parameterization. Atmospheric Chemistry and Physics, 2022, 22, 4763-4778. | 4.9 | 7 |
| 2 | Wind, Convection and Fetch Dependence of Gas Transfer Velocity in an Arctic Seaâ€Ice Lead Determined From Eddy Covariance CO<sub>2</sub> Flux Measurements. Global Biogeochemical Cycles, 2021, 35, e2020GB006633. | 4.9 | 14 |
| 3 | Natural variability in airâ€“sea gas transfer efficiency of CO2. Scientific Reports, 2021, 11, 13584. | 3.3 | 14 |
| 4 | Novel use of social media to assess and improve coastal flood forecasts and hazard alerts. Scientific Reports, 2021, 11, 13727. | 3.3 | 10 |
| 5 | Surface Heat and Moisture Exchange in the Marginal Ice Zone: Observations and a New Parameterization Scheme for Weather and Climate Models. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034827. | 3.3 | 13 |
| 6 | Key Uncertainties in the Recent Airâ€Sea Flux of CO<sub>2</sub>. Global Biogeochemical Cycles, 2019, 33, 1548-1563. | 4.9 | 54 |
| 7 | The Average Shape of Large Waves in the Norwegian Sea: Is Non-Linear Physics Important?. , 2019, , . | | 0 |
| 8 | Measurements and models of the temperature change of water samples in seaâ€surface temperature buckets. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2198-2209. | 2.7 | 8 |
| 9 | Comparison of two closed-path cavity-based spectrometers for measuring airâ€“water CO<sub>2</sub> and CH<sub>4</sub> fluxes by eddy covariance. Atmospheric Measurement Techniques, 2016, 9, 5509-5522. | 3.1 | 20 |
| 10 | Smart electronics for high accuracy wave height measurements in the open ocean. , 2016, , . | | 2 |
| 11 | Airâ€“sea fluxes of CO<sub>2</sub> and CH<sub>4</sub> from the Penlee Point Atmospheric Observatory on the south-west coast of the UK. Atmospheric Chemistry and Physics, 2016, 16, 5745-5761. | 4.9 | 22 |
| 12 | Motion-correlated flow distortion and wave-induced biases in airâ€“sea flux measurements from ships. Atmospheric Chemistry and Physics, 2015, 15, 10619-10629. | 4.9 | 25 |
| 13 | Wave height analysis from 10 years of observations in the Norwegian Sea. Continental Shelf Research, 2014, 72, 47-56. | 1.8 | 21 |
| 14 | Changes in significant and maximum wave heights in the Norwegian Sea. Global and Planetary Change, 2014, 113, 68-76. | 3.5 | 14 |
| 15 | Near-surface measurements of sea spray aerosol production over whitecaps in the open ocean. Ocean Science, 2013, 9, 133-145. | 3.4 | 37 |
| 16 | A Spar Buoy for High-Frequency Wave Measurements and Detection of Wave Breaking in the Open Ocean. Journal of Atmospheric and Oceanic Technology, 2011, 28, 590-605. | 1.3 | 27 |
| 17 | Uncertainties in wind speed dependent CO<sub>2</sub> transfer velocities due to airflow distortion at anemometer sites on ships. Atmospheric Chemistry and Physics, 2010, 10, 5123-5133. | 4.9 | 13 |
| 18 | Linearity of DMS transfer coefficient with both friction velocity and wind speed in the moderate wind speed range. Geophysical Research Letters, 2010, 37, . | 4.0 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Direct measurements of the CO<sub>2</sub> flux over the ocean: Development of a novel method. Geophysical Research Letters, 2010, 37, . | 4.0 | 38 |
| 20 | Correction to â€œDirect measurements of the CO2flux over the ocean: Development of a novel methodâ€. Geophysical Research Letters, 2010, 37, n/a-n/a. | 4.0 | 0 |
| 21 | Open ocean gas transfer velocity derived from longâ€term direct measurements of the CO<sub>2</sub> flux. Geophysical Research Letters, 2010, 37, . | 4.0 | 26 |
| 22 | AutoFlux: an autonomous system for the direct measurement of the air-sea fluxes of CO2, heat and momentum. Journal of Operational Oceanography, 2009, 2, 15-23. | 1.2 | 33 |
| 23 | Physical Exchanges at the Airâ€“Sea Interface: UKâ€“SOLAS Field Measurements. Bulletin of the American Meteorological Society, 2009, 90, 629-644. | 3.3 | 52 |
| 24 | Supplement to Physical Exchanges at the Airâ€“Sea Interface: UKâ€“SOLAS Field Measurements. Bulletin of the American Meteorological Society, 2009, 90, ES9-ES16. | 3.3 | 5 |
| 25 | Going with the flow: state of the art marine meteorological measurements on the new NERC research vessel. Weather, 2008, 63, 158-159. | 0.7 | 8 |
| 26 | Sensors for physical fluxes at the sea surface: energy, heat, water, salt. Ocean Science, 2008, 4, 247-263. | 3.4 | 34 |
| 27 | Were extreme waves in the Rockall Trough the largest ever recorded?. Geophysical Research Letters, 2006, 33, . | 4.0 | 54 |
| 28 | Quantifying the Airflow Distortion over Merchant Ships. Part II: Application of the Model Results. Journal of Atmospheric and Oceanic Technology, 2006, 23, 351-360. | 1.3 | 31 |
| 29 | Quantifying the Airflow Distortion over Merchant Ships. Part I: Validation of a CFD Model. Journal of Atmospheric and Oceanic Technology, 2006, 23, 341-350. | 1.3 | 26 |
| 30 | Parameterizing the Sea Surface Roughness. Journal of Physical Oceanography, 2005, 35, 835-848. | 1.7 | 158 |
| 31 | An overview of the airflow distortion at anemometer sites on ships. International Journal of Climatology, 2005, 25, 997-1006. | 3.5 | 40 |
| 32 | On Detection of a Wave Age Dependency for the Sea Surface Roughness. Journal of Physical Oceanography, 2004, 34, 1441-1458. | 1.7 | 36 |
| 33 | A new formula for determining the atmospheric longwave flux at the ocean surface at mid-high latitudes. Journal of Geophysical Research, 2003, 108, . | 3.3 | 46 |
| 34 | On the Accuracy of Ocean Winds and Wind Stress â€“ An Emperical Assesment. , 2003, , 34-45. | | 0 |
| 35 | Statistical Comparisons of Observed and ECMWF Modeled Open Ocean Surface Drag. Journal of Physical Oceanography, 2002, 32, 1010-1027. | 1.7 | 18 |
| 36 | CFD Model Estimates of the Airflow Distortion over Research Ships and the Impact on Momentum Flux Measurements. Journal of Atmospheric and Oceanic Technology, 2002, 19, 1477-1499. | 1.3 | 73 |

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|---|---|---|---|
| 37 | The Dependence of Sea Surface Roughness on the Height and Steepness of the Waves. Journal of Physical Oceanography, 2001, 31, 572-590. | 1.7 | 396 |
| 38 | Comments on â€œOn the Effect of Ocean Waves on the Kinetic Energy Balance and Consequences for the Inertial Dissipation Techniqueâ€• Journal of Physical Oceanography, 2001, 31, 2532-2536. | 1.7 | 18 |
| 39 | An Evaluation of Some Recent Batches of IAPSO Standard Seawater. Journal of Atmospheric and Oceanic Technology, 2000, 17, 854-861. | 1.3 | 11 |
| 40 | On the Apparent â€œImbalanceâ€•Term in the Turbulent Kinetic Energy Budget. Journal of Atmospheric and Oceanic Technology, 2000, 17, 82-89. | 1.3 | 28 |
| 41 | Effect of Pulse Averaging on Sonic Anemometer Spectra. Journal of Atmospheric and Oceanic Technology, 1999, 16, 181-184. | 1.3 | 12 |
| 42 | Wind Stress Measurements from the Open Ocean Corrected for Airflow Distortion by the Ship. Journal of Physical Oceanography, 1998, 28, 1511-1526. | 1.7 | 201 |
| 43 | Wind Stress Measurements from the Open Ocean. Journal of Physical Oceanography, 1996, 26, 541-558. | 1.7 | 353 |
| 44 | The Use of the Inertial Dissipation Technique for Shipboard Wind Stress Determination. Journal of Atmospheric and Oceanic Technology, 1994, 11, 1093-1108. | 1.3 | 49 |