

Elizabeth C Kent

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

11,958
citations

147566

31
h-index

114278

63
g-index

70
all docs

70
docs citations

70
times ranked

10389
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Global analyses of sea surface temperature, sea ice, and night marine air temperature since the late nineteenth century. <i>Journal of Geophysical Research</i> , 2003, 108, . | 3.3 | 8,242 |
| 2 | ICOADS Release 2.5: extensions and enhancements to the surface marine meteorological archive. <i>International Journal of Climatology</i> , 2011, 31, 951-967. | 1.5 | 407 |
| 3 | Observations: Atmosphere and Surface. , 2014, , 159-254. | | 350 |
| 4 | New Insights into the Ocean Heat Budget Closure Problem from Analysis of the SOC Air–Sea Flux Climatology. <i>Journal of Climate</i> , 1999, 12, 2856-2880. | 1.2 | 300 |
| 5 | ICOADS Release 3.0: a major update to the historical marine climate record. <i>International Journal of Climatology</i> , 2017, 37, 2211-2232. | 1.5 | 288 |
| 6 | A New Air–Sea Interaction Gridded Dataset from ICOADS With Uncertainty Estimates. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 645-656. | 1.7 | 164 |
| 7 | Air-Sea Fluxes With a Focus on Heat and Momentum. <i>Frontiers in Marine Science</i> , 2019, 6, . | 1.2 | 111 |
| 8 | The Accuracy of Voluntary Observing Ships' Meteorological Observations-Results of the VSOP-NA. <i>Journal of Atmospheric and Oceanic Technology</i> , 1993, 10, 591-608. | 0.5 | 110 |
| 9 | Metadata from WMO Publication No. 47 and an Assessment of Voluntary Observing Ship Observation Heights in ICOADS. <i>Journal of Atmospheric and Oceanic Technology</i> , 2007, 24, 214-234. | 0.5 | 91 |
| 10 | Air–Sea fluxes from ICOADS: the construction of a new gridded dataset with uncertainty estimates. <i>International Journal of Climatology</i> , 2011, 31, 987-1001. | 1.5 | 89 |
| 11 | Wind Stress Forcing of the Ocean in the SOC Climatology: Comparisons with the NCEP–NCAR, ECMWF, UWM/COADS, and Hellerman and Rosenstein Datasets. <i>Journal of Physical Oceanography</i> , 2002, 32, 1993-2019. | 0.7 | 87 |
| 12 | Toward an Integrated Set of Surface Meteorological Observations for Climate Science and Applications. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 2689-2702. | 1.7 | 80 |
| 13 | A 20-year independent record of sea surface temperature for climate from Along-Track Scanning Radiometers. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 77 |
| 14 | Methods to homogenize wind speeds from ships and buoys. <i>International Journal of Climatology</i> , 2005, 25, 979-995. | 1.5 | 75 |
| 15 | Trends in ship wind speeds adjusted for observation method and height. <i>International Journal of Climatology</i> , 2008, 28, 747-763. | 1.5 | 72 |
| 16 | A Call for New Approaches to Quantifying Biases in Observations of Sea Surface Temperature. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1601-1616. | 1.7 | 69 |
| 17 | Global analysis of night marine air temperature and its uncertainty since 1880: The HadNMAT2 data set. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1281-1298. | 1.2 | 62 |
| 18 | A comparative assessment of monthly mean wind speed products over the global ocean. <i>International Journal of Climatology</i> , 2013, 33, 2520-2541. | 1.5 | 60 |

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|----|---|------|-----------|
| 19 | Guiding the Creation of A Comprehensive Surface Temperature Resource for Twenty-First-Century Climate Science. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, ES40-ES47. | 1.7 | 59 |
| 20 | Toward Estimating Climatic Trends in SST. Part I: Methods of Measurement. <i>Journal of Atmospheric and Oceanic Technology</i> , 2006, 23, 464-475. | 0.5 | 55 |
| 21 | Were extreme waves in the Rockall Trough the largest ever recorded?. <i>Geophysical Research Letters</i> , 2006, 33, . | 1.5 | 54 |
| 22 | A Statistical Determination of the Random Observational Errors Present in Voluntary Observing Ships Meteorological Reports. <i>Journal of Atmospheric and Oceanic Technology</i> , 1999, 16, 905-914. | 0.5 | 51 |
| 23 | Correcting datasets leads to more homogeneous early-twentieth-century sea surface warming. <i>Nature</i> , 2019, 571, 393-397. | 13.7 | 51 |
| 24 | Deriving a sea surface temperature record suitable for climate change research from the along-track scanning radiometers. <i>Advances in Space Research</i> , 2008, 41, 1-11. | 1.2 | 47 |
| 25 | Choice of a Beaufort Equivalent Scale. <i>Journal of Atmospheric and Oceanic Technology</i> , 1997, 14, 228-242. | 0.5 | 45 |
| 26 | Quantifying random measurement errors in Voluntary Observing Ships' meteorological observations. <i>International Journal of Climatology</i> , 2005, 25, 843-856. | 1.5 | 45 |
| 27 | BoBBLE: Ocean-Atmosphere Interaction and Its Impact on the South Asian Monsoon. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1569-1587. | 1.7 | 45 |
| 28 | An Analytical Model of Heating Errors in Marine Air Temperatures from Ships. <i>Journal of Atmospheric and Oceanic Technology</i> , 2004, 21, 1198-1215. | 0.5 | 42 |
| 29 | Toward Estimating Climatic Trends in SST. Part III: Systematic Biases. <i>Journal of Atmospheric and Oceanic Technology</i> , 2006, 23, 487-500. | 0.5 | 38 |
| 30 | Toward Estimating Climatic Trends in SST. Part II: Random Errors. <i>Journal of Atmospheric and Oceanic Technology</i> , 2006, 23, 476-486. | 0.5 | 37 |
| 31 | Global Climate. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, S11-S142. | 1.7 | 36 |
| 32 | Effects of instrumentation changes on sea surface temperature measured <i>in situ</i> . <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2010, 1, 718-728. | 3.6 | 35 |
| 33 | Ship-Based Contributions to Global Ocean, Weather, and Climate Observing Systems. <i>Frontiers in Marine Science</i> , 2019, 6, . | 1.2 | 34 |
| 34 | Constraining Southern Ocean Air-Sea-Ice Fluxes Through Enhanced Observations. <i>Frontiers in Marine Science</i> , 2019, 6, . | 1.2 | 31 |
| 35 | Correction of Marine Air Temperature Observations for Solar Radiation Effects. <i>Journal of Atmospheric and Oceanic Technology</i> , 1993, 10, 900-906. | 0.5 | 28 |
| 36 | Climatological diurnal variability in sea surface temperature characterized from drifting buoy data. <i>Geoscience Data Journal</i> , 2016, 3, 20-28. | 1.8 | 26 |

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|----|---|-----|-----------|
| 37 | Estimating Sea Surface Temperature Measurement Methods Using Characteristic Differences in the Diurnal Cycle. <i>Geophysical Research Letters</i> , 2018, 45, 363-371. | 1.5 | 25 |
| 38 | Observing Requirements for Long-Term Climate Records at the Ocean Surface. <i>Frontiers in Marine Science</i> , 2019, 6, . | 1.2 | 25 |
| 39 | A probabilistic approach to ship voyage reconstruction in <scp>ICOADS</scp>. <i>International Journal of Climatology</i> , 2017, 37, 2233-2247. | 1.5 | 23 |
| 40 | The effect of instrument exposure on marine air temperatures: an assessment using VOSclim Data. <i>International Journal of Climatology</i> , 2005, 25, 1007-1022. | 1.5 | 22 |
| 41 | The Evolving SST Record from ICOADS. , 2008, , 65-83. | | 22 |
| 42 | The Voluntary Observing Ship (VOS) Scheme. , 2010, , . | | 22 |
| 43 | A comparison of oceanic skin effect parameterizations using shipborne radiometer data. <i>Journal of Geophysical Research</i> , 1996, 101, 16649-16666. | 3.3 | 21 |
| 44 | A comparison of ship- and scatterometer-derived wind speed data in open ocean and coastal areas. <i>International Journal of Remote Sensing</i> , 1998, 19, 3361-3381. | 1.3 | 21 |
| 45 | The International Comprehensive Ocean-Atmosphere Data Set “ Meeting Users Needs and Future Priorities. <i>Frontiers in Marine Science</i> , 2019, 6, . | 1.2 | 21 |
| 46 | Can a state of the art atmospheric general circulation model reproduce recent NAO related variability at the air-sea interface?. <i>Geophysical Research Letters</i> , 2001, 28, 4543-4546. | 1.5 | 19 |
| 47 | A Comparison of Sensible and Latent Heat Flux Estimates for the North Atlantic Ocean. <i>Journal of Physical Oceanography</i> , 1995, 25, 1530-1549. | 0.7 | 18 |
| 48 | The EUSTACE Project: Delivering Global, Daily Information on Surface Air Temperature. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1924-E1947. | 1.7 | 18 |
| 49 | Seasonal variations between sampling and classical mean turbulent heat flux estimates in the eastern North Atlantic. <i>Annales Geophysicae</i> , 1995, 13, 1054-1064. | 0.6 | 17 |
| 50 | Intraseasonal Variability of Air“Sea Fluxes over the Bay of Bengal during the Southwest Monsoon. <i>Journal of Climate</i> , 2018, 31, 7087-7109. | 1.2 | 17 |
| 51 | Integrating the Ocean Observing System: Mobile Platforms. , 2010, , . | | 17 |
| 52 | The Importance of Unresolved Biases in Twentieth-Century Sea Surface Temperature Observations. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 621-629. | 1.7 | 15 |
| 53 | Historical Estimates of Surface Marine Temperatures. <i>Annual Review of Marine Science</i> , 2021, 13, 283-311. | 5.1 | 15 |
| 54 | Accuracy of Humidity Measurement on Ships: Consideration of Solar Radiation Effects. <i>Journal of Atmospheric and Oceanic Technology</i> , 1996, 13, 1317-1321. | 0.5 | 14 |

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|----|---|-----|-----------|
| 55 | Assessing the health of the <i>in situ</i> global surface marine climate observing system. International Journal of Climatology, 2017, 37, 2248-2259. | 1.5 | 14 |
| 56 | A comparison of SSM/I-derived global marine surface-specific humidity datasets. International Journal of Climatology, 2015, 35, 2359-2381. | 1.5 | 13 |
| 57 | Progress towards a holistic land and marine surface meteorological database and a call for additional contributions. Geoscience Data Journal, 2021, 8, 103-120. | 1.8 | 12 |
| 58 | MEETING SUMMARIES. Bulletin of the American Meteorological Society, 2007, 88, 559-568. | 1.7 | 11 |
| 59 | A comparison of global marine surface-specific humidity datasets from in situ observations and atmospheric reanalysis. International Journal of Climatology, 2014, 34, 355-376. | 1.5 | 11 |
| 60 | The Effect of Successive Correction on Variability Estimates for Climatological Datasets. Journal of Climate, 2000, 13, 1845-1857. | 1.2 | 10 |
| 61 | Recent Change in Atmosphere. Regional Climate Studies, 2016, , 55-84. | 1.2 | 10 |
| 62 | Recent Change in North Sea. Regional Climate Studies, 2016, , 85-136. | 1.2 | 9 |
| 63 | Measurements and models of the temperature change of water samples in sea surface temperature buckets. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2198-2209. | 1.0 | 8 |
| 64 | CLASSmat: A global night marine air temperature data set, 1880-2019. Geoscience Data Journal, 2020, 7, 170-184. | 1.8 | 7 |
| 65 | An Estimate of Structural Uncertainty in QuikSCAT Wind Vector Retrievals. Journal of Applied Meteorology and Climatology, 2012, 51, 954-961. | 0.6 | 5 |
| 66 | From Observations to Forecasts - Part 6. Marine meteorological observations. Weather, 2010, 65, 231-238. | 0.6 | 2 |
| 67 | Accounting for random errors in linear regression: A practical guide. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 2789-2790. | 1.0 | 1 |