Thompson GOMO report

FY23 Publications

***\*Published***

Eyre, J.R., M.F. Cronin, D. Zhang, C.W. Fairall, E. Thompson, 2022: Saildrone direct covariance wind stress in different wind and current regimes of the tropical Pacific. *J. Atmos. Oceanic. Tech.,* ***40****, 503-517,* [*https://doi.org/10.1175/JTECH-D-22-0077.1*](https://doi.org/10.1175/JTECH-D-22-0077.1)

Brizuela, N., S. Johnston, M. H. Alford, O. Asselin, D. L. Rudnick, J. N. Moum, and E. J. Thompson, 2020: Mixing, upwelling, and internal wave generation beneath Super Typhoon Mangkhut: a vorticity-divergence view of the ocean response to tropical cyclones. *J. Geophys. Res.*., 128, e2022JC019400. <https://doi.org/10.1029/2022JC019400>

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Reid, J. and many coauthors including E. J. Thompson, submitted: The coupling between tropical meteorology, aerosol science, convection and the energy budget during the Clouds, Aerosol Monsoon Processes Philippines Experiment (CAMP2Ex). *Bull. Am. Met. Soc.*, **104**, E1179–E1205, <https://doi.org/10.1175/BAMS-D-21-0285.1>

Davis, Jacob R., Jim Thomson, Isabel A. Houghton, James D. Doyle, Will Komaromi, Chris W. Fairall, and Elizabeth J. Thompson, 2023: Saturation of ocean surface wave slopes observed during hurricanes. *Geophys. Res. Lett.*, **50**, e2023GL104139. <https://doi.org/10.1029/2023GL104139>

Barr, Benjamin W., Shuyi S. Chen,and C. W. Fairall, 2023: Seastate-dependent sea spray and air-sea heat fluxes in tropical cyclones from a fully coupled atmosphere-wave-ocean model. *J. Atmos. Sci.,* <https://doi.org/10.1175/JAS-D-22-0126.1>.

***\*In Press***

CLIVAR *Variations* White Papers / Newsletter Articles: Satellite Observations and Needs for Air Sea Interaction; Tropical Pacific in-situ Observing System (to be released this winter/spring)

Bariteau, Ludovic; C.W. Fairall, B. Blomquist, and Sergio Pezoa, 2022: Summary of ship-based air-sea flux observations from 30 PSD field campaigns 1992-2020. NCEI Accession 0170257. Version 1.1. NOAA National Centers for Environmental Information. Dataset. Submitted.

Zhang, Dongxiao, G. Foltz, Chidong Zhang, C.W. Fairall, H. Kim, Jun Zhang, A. Mehra, A. Chiodi, M.F. Cronin, Elizabeth Thompson, and J. Thomson. Air-sea surface fluxes in tropical cyclones measured by uncrewed surface vehicle saildrones. *J. Atmos. Oceanic Tech.*, submitted.

***\*Data Reports***

Bariteau, B., B. Blomquist, and J. Ciniceros, 2023: WHOTS 2023 Bulk Meteorology System Ship-Based (June 16-22, 2023) aboard *R/V Oscar Sette*. PSD. Informal report. <https://downloads.psl.noaa.gov/psd3/cruises/WHOTS_2023/RV_Sette/Scientific_analysis/report/WHOTS-2023%20PSL%20Report.pdf>