



Curriculum Vitae

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Education:

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| Ph. D. | University of Delaware, USA | Physical Oceanography | June 1987 |
| M.S. | National Taiwan University | Physical Oceanography | June 1978 |
| B.S. | National Cheng-Kung University, Naval Architecture and Marine Engineering | | June 1976 |

Employment:

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| 2022-now: | Professor Emeritus, Department of Oceanography, NSYSU, Taiwan. |
| 2013-2022: | Professor, Department of Oceanography, NSYSU, Taiwan |
| 2004-2013: | Professor, Department of Marine Resources, NSYSU, Taiwan |
| 1992-2004: | Associate Professor, Department of Marine Resources, NSYSU, Taiwan |
| 1989-1991: | Research Associate, RSMAS, University of Miami, USA |
| 1987-1989: | Post-doctor, Department of Aerospace Engineering, University of Southern California |
| 1983-1987: | Research Assistant, College of Marine Studies, University of Delaware, USA |
| 1980-1983: | 工研院能源所副研究員 |

Selected Publications:

- Wei-Teh Li, Jau-Ming Chen & Ruo-Shan Tseng, 2023, Climatic Factors Suppressing Tropical Cyclone Activity around Taiwan during October. *Asia-Pacific Journal of Atmospheric Sciences*, 59, p. 459–477.
- Jiehong Wei, Min-Yun Liu, Jen-Chieh Shiao, Fan Li, Jinqun Yang, Yoshiyuki Iizuka, Bin Kang, Ruo-Shan Tseng, Huan-Jie Shao, Te-Yu Liao*, 2022, Currents shaped the genetic structure of *Tridentiger barbatus* (Günther 1861) along the Chinese coast. *Frontiers in Marine Science*, 9:923439. doi: 10.3389/fmars.2022.923439.
- Hsu, P.-C., Centurioni, L., Shao, H.-J., Zheng, Q., Lu, C.-Y., Hsu, T.-W., & Tseng*, R.-S. , 2021, Surface Current Variations and Oceanic Fronts in the Southern East China Sea: Drifter Experiments, Coastal Radar Applications, and Satellite Observations. *J. Geophysical Research-Oceans*, 126(10), 1-22. *JGR*, 126, e2021JC017373.
- Chang*, M.-H., Y.-H. Cheng, Y. J. Yang, S. Jan, S. R. Ramp, D. B. Reeder, W.-T.

- Hsieh, D. S. Ko, K. A. Davis, H.-J. Shao, and R.-S. Tseng, 2021, Instabilities and Turbulence Observed within Large Internal Solitary Waves. *Communications Earth & Environment*, 2:15, <https://doi.org/10.1038/s43247-020-00083-6>
- Tseng, R.-S.*, Jan, S. and Zhu, J., 2020, Circulation and Water Mass in the Taiwan Strait. *Regional Oceanography of the South China Sea and its Adjacent Areas* (ISBN: 9789811206900). World Scientific Press. Jan, 2020: p. 433-470.
 - Shen, Y.-T., J.-W. Lai, L.-G. Leu, Y.-C. Lu, J.-M. Chen, H.-J. Shao, H.-W. Chen, K.-T. Chang, C.-T. Terng, Y.-C. Chang, R.-S. Tseng*, 2019, Applications of ocean currents data from high-frequency radars and current profilers to search and rescue missions around Taiwan. *Journal of Operational Oceanography*, 12, S2, s126–s136.
 - Huang, T.-H., C.-T. A. Chen*, J. Lee, C.-R. Wu, Y.-L. Wang, Y. Bai, X. He, S.-L. Wang, S. Kandasamy, J.-Y. Lou, B.-J. Tsuang, H.-W. Chen, R.-S. Tseng & Y.-J. Yang, 2019, East China Sea increasingly gains limiting nutrient P from South China Sea. *Scientific Reports*, 9:5648.
 - Shao, H-J, R-S Tseng, R-C Lien, J-M Chen and Y-C Chang, 2018. Turbulent mixing on sloping bottom of an energetic tidal channel, *Continental Shelf Research*, 166, 44-53.
 - Tseng, R.-S.*, Y.-C. Chang, and P. C. Chu., 2017, Use of global satellite altimeter and drifter data for ocean current resource characterization. *Marine Renewable Energy: Resource characterization and physical effects*. ed. Z. Yang and A. Copping, Springer Press, Gewerbestrasse, Switzerland,159-177. (ISBN: 978-3-319-53534-0). Gewerbestrasse, Switzerland: Springer Press.
 - Chang, Y.-C., Tseng, R.-S., Chu, P.-C., Chen, J.-M., and Centurion, L.-R., 2016, Observed strong currents under global tropical cyclones, *Journal of Marine Systems* 159, 33–40.
 - Chang, Y.-C., R.-S. Tseng, P. C. Chu, and H.-J. Shao, 2016, Global Energy-saving Map of Strong Ocean Currents, *Journal of Navigation*, 69, 75–92.
 - Chang, Y.-C., P. C. Chu and R.-S. Tseng, 2015, Site selection of ocean current power generation from drifter measurements, *Renewable Energy*, 80, 737-745.
 - Chang, Y.-C., P. C. Chu, L. R. Centurioni, R.-S. Tseng, 2014, Observed near-surface currents under four super typhoons, *Journal of Marine Systems*, 139, 311-319
 - Chang, Y.-C., R.-S. Tseng*, G.-Y. Chen, P. C. Chu, and Y.-T. Shen, 2013, Ship routing utilizing strong ocean currents, *Journal of Navigation*, 66, 825 – 835.
 - Chang, Y.-C., G.-Y. Chen, R.-S. Tseng, L. R. Centurioni, and P. C. Chu, 2013, Observed near-surface flows under all tropical cyclone intensity levels using drifters in the northwestern Pacific, *Journal of Geophysical Research*, 118, 1-11.
 - Tseng, R.-S.*, H.-J. Shao, Y.-C. Chang and L. R. Centurioni, 2012, Turbulent mixing of the Kuroshio waters southeast of Taiwan, *Kuroshio Science*, 6-1, 27-34.
 - Chang, Y.-C., G.-Y. Chen*, R.-S. Tseng, L. R. Centurioni, and Peter C. Chu, 2012, Observed near-surface currents under high wind speeds, *Journal of Geophysical Research*, 117, C11026, doi:10.1029/2012JC007996
 - Chang, Y.-C., Chen, G.-Y.*, Tseng, R.-S., and P. C. Chu, 2012, Effect of cylindrically shaped atoll on westward-propagating anticyclonic eddy-a case study. *IEEE Geoscience and Remote Sensing Letters*, 9, 43-46.