

Dr. Chih-Lin Wei

Associate Professor
Institute of Oceanography
National Taiwan University
No.1, Sec. 4, Roosevelt Road, Taipei 106 ,Taiwan
Phone: 886 (02) 2366-1642 e-mail: clwei@ntu.edu.tw

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1. EDUCATION:

2011 Ph.D. (Biological Oceanography), Texas A&M University, College Station, TX, USA. Advisor: Gilbert T. Rowe

2006 M.Sc. (Biological Oceanography), Texas A&M University; College Station, TX, USA. Advisor: Gilbert T. Rowe

1999 B.Sc. (Zoology), National Chung-Hsing University, Taichung, Taiwan

2. PROFESSIONAL EXPERIENCE:

2020-present Principal Investigator, Ocean Data Bank (ODB), Institute of Oceanography, National Taiwan University, Taipei, Taiwan

2018-present Associate Professor, Institute of Oceanography, National Taiwan University, Taipei, Taiwan

2014-2018 Assistant Professor, Institute of Oceanography, National Taiwan University, Taipei, Taiwan

2018-present Adjunct Associate Professor, International Master/doctoral Degree Program in Climate Change and Sustainable Development, National Taiwan University, Taipei, Taiwan

2016-2018 Adjunct Assistant Professor, International Master/doctoral Degree Program in Climate Change and Sustainable Development, National Taiwan University, Taipei, Taiwan

2017-2019 Co-principal Investigator, Marine Instrumentation Center, Institute of Oceanography, National Taiwan University, Taipei, Taiwan

2011-2014 Postdoctoral Fellow, Canadian Healthy Oceans Network (CHONe), Ocean Sciences Center, Memorial University of Newfoundland, St. John's, NL, Canada (Advisor: Paul Snelgrove, Peter Lawton and Mathieu Cusson)

2012-2013 Data analysis consultant, Department of Fisheries and Oceans Canada, "Data report on demersal fish assemblages that may be observed in the timeseries from Campelen trawl data available for NAFO subdivisions 2J3KL, Grand Banks and the northern Gulf of St. Lawrence."

- 2003-2011 Graduate Research Assistant, Department of Marine Biology, Texas A&M University at Galveston (TAMUG), Galveston, TX, USA
- 2007-2009 Graduate Teaching Assistant (Biostatistics, Natural History of Vertebrates), Department of Marine Biology, TAMUG, Galveston, TX, USA
- 2002 Graduate Research Assistant, Department of Oceanography, Texas A&M University (TAMU), College Station, TX, USA
2002 Technician, Department of Oceanography, TAMU, College Station, TX, USA
- 2001 Research Assistant (Invertebrate section): Biodiversity Research Museum, Academia Sinica, Taipei, Taiwan
- 1999-2001 Platoon Leader (Secondary Lieutenant), Military Police Corps, ROC Army, Taipei, Taiwan
- 1997-1999 Field Assistant, Department of Zoology, National Chung-Hsing University, Taichung, Taiwan

3. ADMINISTRATIVE SERVICE:

- 2020-present Principal investigator, Ocean Data Bank, IONTU
- 2019-2020 Research vessel operation committee, IONTU
- 2017-2020 Consulting professor in biological oceanography, Marine Instrument Center, IONTU
- 2017-2019 Co-principal investigator, Marine Instrument Center, IONTU
- 2017-2018 Research vessel operation committee, IONTU
- 2016-2017 Student affair committee, IONTU; Student recruitment committee, ICPS
- 2015-2016 Student recruitment committee, IONTU; Student recruitment committee, ICPS
- 2015-present Manager of common wet lab, IONTU

2014-2015 Research vessel operation committee, IONTU

4. PROFESSIONAL TRAINING AND CERTIFICATE:

2005 PRIMER Workshops on “Analysis of Multivariate Data from Ecology and Environmental Science, using PRIMER v6”, Texas A&M University, Corpus Christi, TX, USA

2004 Ecopath with Ecosin Workshop on: “Using Ecopath modeling for analysis and management of estuarine food webs”, NOAA, Galveston, TX, USA

2004 Scientific Diver (AAUS), Master Scuba Diver (NAUI), Enriched Air Nitrox Diver (NAUI), Cavern Diver (NSS- CDS), Rescue Diver (PADI), Advance Open Water Diver (PADI) , Galveston, TX, USA

2004 Boater Education Certificate, Texas Parks and Wildlife, Galveston, TX, USA

1998 Open Water Diver (PADI), Taiwan

5. COURSE OFFERING:

2021 Ocean 7005 Paper Readings (biology), graduate, 2 credits, 13 students, required, **lead-instructor**

Ocean 5002/ IPCS 5010 Marine Ecology, graduate/undergraduate, 3 credits, 2 students, optional, **instructor**

Ocean 5008 Introduction to Marine Science, undergraduate, 2 credits, 417 students, optional, co-instructor

Ocean 5115 Taiwan Regional Oceanography, graduate/undergraduate, 2 credits, 28 students, optional, **instructor**

Ocean 7005 Paper Readings (biology), graduate, 2 credits, 12 students, required, **lead-instructor**

Ocean 5089/IPCS 5004 Deep-sea Ecology, graduate/undergraduate, 2 credits, xx students, optional, **instructor**

Ocean 5008 Introduction to Marine Science, undergraduate, 2 credits, 400 students, optional, co-instructor

Ocean 5115 Taiwan Regional Oceanography, graduate/undergraduate, 2 credits, 53 students, optional, **instructor**

- 2020 Ocean 7005 Paper Readings (biology), graduate, 2 credits, 15 students, required, **lead-instructor**
 Ocean 5089/IPCS 5004 Exploring the deep sea, graduate/undergraduate, 2 credits, 17 students, optional, **instructor**
 Ocean 5008 Introduction to Marine Science, undergraduate, 2 credits, 419 students, optional, co-instructor
 Ocean 5115 Taiwan Regional Oceanography, graduate/undergraduate, 2 credits, 33 students, optional, **instructor**
 Ocean 7005 Paper Readings (biology), graduate, 2 credits, 16 students, required, **lead-instructor**
 Ocean 7090 Field Work in Marine Biology, graduate, 1 credit, 16 students, required, **lead-instructor**
 Ocean 5002/ IPCS 5010 Marine Ecology, graduate/undergraduate, 3 credits, 13 students, optional, **instructor**
 Ocean 5008 Introduction to Marine Science, undergraduate, 2 credits, 419 students, optional, co-instructor
- 2019 Ocean 7005 Paper Readings (biology), graduate, 2 credits, 11 students, required, **lead-instructor**
 Ocean 5089/IPCS 5004 Exploring the deep sea, graduate/undergraduate, 2 credits, 21 students, optional, **instructor**
 Ocean 5008 Introduction to Marine Science, undergraduate, 2 credits, 410 students, optional, co-instructor
 Ocean 5115 Taiwan Regional Oceanography, graduate/undergraduate, 2 credits, 53 students, optional, **instructor**
 Ocean 7005 Paper Readings (biology), graduate, 2 credits, 12 students, required, **lead-instructor**
 Ocean 7090 Field Work in Marine Biology, graduate, 1 credit, 12 students, required, **lead-instructor**
 Ocean 5002/ IPCS 5010 Marine Ecology, graduate/undergraduate, 3 credits, 14 students, optional, **instructor**
 Ocean 5008 Introduction to Marine Science, undergraduate, 2 credits, 414 students, optional, co-instructor
- 2018 Ocean 7005 Paper Readings (biology), graduate, 2 credits, 12 students, required, **lead-instructor**
 Ocean 5089/IPCS 5004 Exploring the deep sea,

- graduate/undergraduate, 2 credits, 13 students, optional, **instructor**
 Ocean 5008 Introduction to Marine Science, undergraduate, 2 credits, 423 students, optional, co-instructor
 Ocean 7005 Paper Readings (biology), graduate, 2 credits, 12 students, required, **lead-instructor**
 Ocean 7090 Field Work in Marine Biology, graduate, 1 credit, 13 students, required, **lead-instructor**
 Ocean 5002/ IPCS 5010 Marine Ecology, graduate/undergraduate, 3 credits, 15 students, optional, **instructor**
 Ocean 5008 Introduction to Marine Science, undergraduate, 2 credits, 409 students, optional, co-instructor
- 2017 Ocean 7005 Paper Readings (biology), graduate, 2 credits, 12 students, required, **lead-instructor**
 Ocean 7090 Field Work in Marine Biology, graduate, 1 credit, 12 students, required, **lead-instructor**
 Ocean 5002/ IPCS 5010 Marine Ecology, graduate/undergraduate, 3 credits, 13 students, optional, **instructor**
 Ocean 5008 Introduction to Marine Science, undergraduate, 2 credits, 400 students, optional, co-instructor
 Ocean 7005 Paper Readings (biology), graduate, 2 credits, 12 students, required, **lead-instructor**
 Ocean 5089/IPCS 5004 Exploring the deep sea, graduate/undergraduate, 2 credits, 24 students, optional, **instructor**
 Ocean 5008 Introduction to Marine Science, undergraduate, 2 credits, 400 students, optional, co-instructor
- 2016 Ocean 7005 Paper Readings (biology), graduate, 2 credits, 12 students, required, co-instructor
 Ocean 7090 Field Work in Marine Biology, graduate, 1 credit, 12 students, required, co-instructor
 Ocean 5002 Marine Ecology, graduate/undergraduate, 3 credits, 10 students, optional, **instructor**
 Ocean 5008 Introduction to Marine Science, undergraduate, 2 credits, 400 students, optional, co-instructor
 Ocean 7169 Field Experimental Approaches, graduate, 2 credits, 3 students, optional, **instructor**
 Ocean 7005 Paper Readings (biology), graduate, 2 credits, 11 students,

- required, co-instructor
 Ocean 5089 Exploring the deep sea, graduate/undergraduate, 2 credits, 9 students, optional, **instructor**
 Ocean 5008 Introduction to Marine Science, undergraduate, 2 credits, 400 students, optional, co-instructor
- 2015 Ocean 7005 Paper Readings (biology), graduate, 2 credits, 12 students, required, co-instructor
 Ocean 7090 Field Work in Marine Biology, graduate, 1 credit, 12 students, required, co-instructor
 Ocean 5002 Marine Ecology, graduate/undergraduate, 3 credits, 12 students, optional, **instructor**
 Ocean 5008 Introduction to Marine Science, undergraduate, 2 credits, 400 students, optional, co-instructor
 AtmSci 5076 Earth Environmental Problems and Resolutions, graduate/undergraduate, 3 credits, 15 students, optional, co-instructor
 Ocean 7002 Seminar (biology), graduate, 1 credit, 17 students, required, co-instructor
 Ocean 7005 Paper Readings (biology), graduate, 2 credits, 12 students, required, co-instructor
 Ocean 5089 Exploring the deep sea, graduate/undergraduate, 2 credits, 17 students, optional, **instructor**
- 2014 Ocean 7002 Seminar (biology), graduate, 1 credit, 16 required, co-instructor
 Ocean 7005 Paper Readings (biology), graduate, 2 credits, 12 students, required, co-instructor
 Ocean 5002 Marine Ecology, graduate/undergraduate, 3 credits, 5 students, optional, **instructor**

6. GRDUATE STUDENT ADVISING:

Thesis supervising:

2016 陳冠銘 (M.S., IONTU), 廖竣 (M.S., IONTU)|

2018 陳孝謙 (M.S., IONTU)

2019 彭彥菱 (M.S., IONTU)

2021 Mariana Gabrielle Cangco Reyes (M.S., IPCS, NTU), 梁卓景 (M.S., IONTU)

Thesis committee:

2018 李岱怡 (M.S., Geology, NTU), 李國榕 (M.S., Life Science, NCHU)

2019 Qianshuo Zhao (Ph. D, University of Auckland)

2021 楊恩揚 (M.S., IPCS, NTU)

Ph. D Qualification committee

2016 李欣 (IONTU)

2022 林玉婷 (IONTU)

7. FAMILIAR SOFTWARE:

PRIMER & PERMANOVA, SPSS, R Statistical Computing Environment, ArcGIS

8. RESEARCH INTERESTS:

Marine community ecology, spatial analysis, biodiversity, deep-sea ecology, benthic ecology, anthropogenic and climate change impacts, ecological modeling.

9. RESEARCH GRANTS:

2021/08/01-2022/07/31

Chih-Lin Wei (PI); co-PIs: Chon-Lin Lee, Fate of Terrestrial/Nonterrestrial Sediments in High Yield Particle-Export River-Sea Systems (Fates-Hypers) (XIII) - In-situ Observation of Carbon Cycling on a Heterogeneous Seafloor (IV) (MOST 110-2611-M-002-017), 1,272,000 NTD\$, Ministry of Science and Technology, Taiwan

Chih-Lin Wei (PI) Ocean Data Bank (MOST 110-2740-M-002-002), 18,806,000 NTD\$, Ministry of Science and Technology, Taiwan

2020/08/01-2021/07/31

Chih-Lin Wei (PI); co-PIs: Chon-Lin Lee, Fate of Terrestrial/Nonterrestrial Sediments in High Yield Particle-Export River-Sea Systems (Fates-Hypers) (XII) - In-situ Observation of Carbon Cycling on a Heterogeneous Seafloor (III) (MOST 109-2611-M-002-018), 2,171,000 NTD\$, Ministry of Science and Technology, Taiwan

Chih-Lin Wei (PI) Ocean Data Bank (MOST 109-2740-M-002-002), 16,076,000 NTD\$, Ministry of Science and Technology, Taiwan

2019/08/01-2020/07/31

Chih-Lin Wei (PI), Fate of Terrestrial/Nonterrestrial Sediments in High Yield Particle-Export River-Sea Systems (Fates-Hypers) (XI) - Observing Seafloor Carbon Cycling off the SW Taiwan by an Autonomous Benthic Lander (II) (MOST 108-2611-M-002-001), 1,585,000 NTD\$, Ministry of Science and Technology, Taiwan

2018/08/01-2019/07/31

Chih-Lin Wei (PI); co-PIs: Chon-Lin Lee, Fate of Terrestrial/Nonterrestrial Sediments in High Yield Particle-Export River-Sea Systems (Fates-Hypers) (X) - Observing Seafloor Carbon Cycling off the SW Taiwan by an Autonomous Benthic Lander (I) (MOST 107-2611-M-002-011), 1,161,000 NTD\$, Ministry of Science and Technology, Taiwan

2017/08/01-2018/07/31

Chih-Lin Wei (PI); co-PIs: Chon-Lin Lee, Fate of Terrestrial/Nonterrestrial Sediments in High Yield Particle-Export River-Sea Systems (Fates-Hypers) (IX) - Biodiversity-ecosystem functioning in the deep submarine canyons off SW Taiwan: Effects of organic enhancement and submarine natural hazards (IV) (MOST 106-2611-M-002-011), 1,491,000 NTD\$, Ministry of Science and Technology, Taiwan

2016/08/01-2017/07/31

Chih-Lin Wei (PI), Fate of Terrestrial/Nonterrestrial Sediments in High Yield Particle-Export River-Sea Systems (Fates-Hypers) (VIII) - Biodiversity-ecosystem functioning in the deep submarine canyons off SW Taiwan: Effects of organic enhancement and submarine natural

hazards (III) (MOST 105-2611-M-002-008), 1,550,000 NTD\$, Ministry of Science and Technology, Taiwan

2014/12/01-2016/07/31

Chih-Lin Wei (PI), Biodiversity-ecosystem functioning in the deep submarine canyons off SW Taiwan: Effects of organic enhancement and submarine natural hazards (MOST 103-2119-M-002 -029 -MY2), 3,381,000 NTD\$, Ministry of Science and Technology, Taiwan

2016-01/01-2018/12/31

Moriaki Yasuhara (PI); co-PIs: Min-Te Chen, Yunwei Dong, Ann Elizabeth Holbourn, Wolfgang Kuhnt, Willem Renema, Derek Tittensor, **Chih-Lin Wei**, Pai-Sen Yu, Northwestern Pacific biodiversity hotspot: investigating biodiversity and biogeographic patterns and their controlling factors (RGC Ref No.17303115). 600,000 HK\$, Hong Kong Research Grants Council

10. AWARDS AND FELLOWSHIPS:

- Teaching Excellence Award, National Taiwan University, 2016-2017
- Canadian Healthy Oceans Network (CHONe) Postdoctoral Fellowship, Memorial University of Newfoundland, 2011 - 2014
- Best in Category of Marine Biology, Second Prize-Graduate Presentations, Student Research Symposium, Texas A&M University at Galveston, 2008
- Erma Lee and Luke Mooney Graduate Student Research Excellence Award, Texas A&M University at Galveston, 2007
- Best in Category of Marine Biology, Third Prize-Graduate Presentations, Student Research Symposium, Texas A&M University at Galveston, 2007
- Forth place, poster session, Ecological Integration Student Research Symposium, Student Research Week, Texas A&M University, 2006
- College of Geoscience GERG Fellowship, Texas A&M University, 2002

11. INVITED WORKSHOPS (expenses paid):

- The UTokyo-NTU Joint Conference 2019 “Co-creating the Future Society in Asia”, Tokyo, Japan, Dec 8-11, 2019
- Paleobiology as the Synthetic Ecological, Evolutionary and Diversity Science (P-SEEDS) workshop, Okinawa, Japan, Nov 20-25, 2019
- Deep Ocean Climate Connections workshop, La Jolla, California, 4-6, June, 2019
- DOSI-FAO Climate Change & Fisheries Meeting, WHOI Clark Lab, Woods Hole, 26th August, 2017
- Joint Workshop on Regional Oceanography Study, Hong Kong University of Science and Technology, Hong Kong, 4th-6th December, 2016
- SCOR Workshop on Seafloor Ecosystem Functions and their Role in Global Processes, Stazione Zoologica, Naples, Italy, Sep 16-18, 2015
- Joint Taiwan-US workshop on “The role of oceanographic processes on the response of tropical coral reef ecosystems to ocean acidification and ocean warming”, Academia, Sinica, Taipei, Taiwan, June 29 - July 1, 2015
- Canadian Healthy Oceans Network (CHONe) marine habitat mapping & biodiversity surrogacy workshop, Huntsman Marine Science Centre, St. Andrews, NB, Canada, July 15-18, 2013
- Ocean Network Canada (ONC) Ocean Observatory Workshop, Department of Oceanography, Dalhousie University, Halifax, NS, Canada, 13-14, November 2012
- Meta-analysis to assess the effects of climate change on deep-sea benthic ecosystems (CLIDEEP), Friday Harbor Laboratories, WA, USA, 12-16 May 2012
- Canadian Healthy Oceans Network (CHONe) Spatial Analysis Workshop, Montreal, Quebec, Canada, 17-22 February, 2012.

- Census of the Diversity of Abyssal Marine Life (CeDAMar) workshop on biogeography and productivity relationships, National Oceanographic Center, Southampton, UK, 8-10 Oct, 2010.
- Census of Marine Life (CoML) Synthesis Workshop on Fresh Biomass, San Antonio, TX, USA, 22-23 May, 2010
- Census of Marine Life (CoML) Synthesis Workshop on “A meta-analysis of bio-physical relationships between seabed species/assemblages and their environment”, Saint Andrews, NB, Canada, 20-24 May, 2009
- Census of the Diversity of Abyssal Marine Life (CeDAMar) workshop on “Impacts of Productivity Gradients on Biodiversity and Ecosystem Function in the Abyss”, Friday Harbor Laboratories, WA, USA, 11-15 May, 2009
- Census of Marine Life (CoML) Synthesis Workshop on “A meta-analysis of bio-physical relationships between seabed species/assemblages and their environment”, Bedford Institute of Oceanography, Halifax, Canada, 29 Sep-3 Oct, 2008

12. CONTRIBUTED TALKS (oral unless stated otherwise):

2021 2021 Ocean Science Conference, National Penghu University of Science & Technology, Penghu, Taiwan

2019 2019 Taiwan Geosciences Assembly (TGA), Nangang Exhibition Center, Taipei, Taiwan

2018 2018 Ocean Science Conference, Chientan Youth Activity Centerm, Taipei, Taiwan

2017 2017 Ocean Science Conference, National Sun Yat-sen University, Kaohsiung, Taiwan

2016 3rd INCISE International Submarine Canyon Symposium, Victoria, BC, Canada

2016 2016 Taiwan Geosciences Assembly (TGA), Taipei, Taiwan

- 2016 International Symposium on Oceanic and Atmospheric Research in the South China Sea, Howard Civil Service International House, Taipei, Taiwan
- 2015 2015 Ocean Science Conference, The Garden Villa, Kaohsiung, Taiwan
- 2012 Benthic Ecology Working Group 2012 Meeting, Sandgerdi, Iceland
- 2010 Ocean Science Meeting, Portland, Oregon, USA. 2008 AGU Fall Meeting, San Francisco, CA, USA
- 2006 ASLO Aquatic Science Meeting, Santa Fe, NM, USA

13. INVITED TALKS (expenses paid):

- 2019 Physical Oceanographic Seminar, Institute of Oceanography, National Taiwan University
- 2019 Chemical Oceanographic Seminar, Institute of Oceanography, National Taiwan University
- 2018 Environmental Cross-disciplinary Seminar, Global Change Research Center, International Degree Program in Climate Change and Sustainable Development, National Taiwan University
- 2018 Biodiversity estimation in time and space: a macroecological perspective of community assembly and diversity patterns, University of Ryukyu, Okinawa, Japan
- 2018 The 65th Annual Meeting of the Ecological Society of Japan, Sapporo Convention Center, Sapporo, Japan
- 2017 Biodiversity seminar series, Department of Life Science, National Chung-Hsing University, Taichung, Taiwan
- 2016 Joint Workshop on Regional Oceanography Study, Hong Kong University of Science and Technology, Hong Kong
- 2016 NTU-UTOKYO Joint Conference: Searching Solution to Grand Challenges in East Asia, Sungreat International Convention Hall, NTU, Taipei, Taiwan

- 2016 International Symposium on Oceanic and Atmospheric Research in the South China Sea, Howard Civil Service International House, Taipei, Taiwan
- 2015 IUT seminar series, Institute of Undersea Technology, College of Marine Science, National Sun Yat-sen University, Kaohsiung, Taiwan
- 2014 IEEB seminar series, Institute of Ecology and Evolutionary Biology, National Taiwan University, Taipei, Taiwan
- 2014 Lunch seminar series, College of Marine Science, National Sun Yat-sen University, Kaohsiung, Taiwan
- 2014 Environmental Seminar, Department of Mathematics, National Taiwan University, Taipei, Taiwan
- 2014 Department of Ocean Science seminar series, Ocean Science Centre, Memorial University of Newfoundland, St. John's, Newfoundland, Canada
- 2014 Département des sciences fondamentales conférence, Université du Québec à Chicoutimi, Chicoutimi, Québec, Canada
- 2013 IMECE seminar series, Institute of Marine Environmental Chemistry and Ecology, National Taiwan Ocean University, Keelung, Taiwan
- 2013 IO seminar series, Institute of Oceanography, National Taiwan University, Taipei, Taiwan
- 2013 Biology seminar series, Biology Department & Ocean Science Centre, Memorial University of Newfoundland, St. John's, Newfoundland, Canada
- 2010 The J. Frederick Grassle Science Symposium on the Census of Marine Life, Royal Society, London, UK.
- 2009 Recent Advance in Marine Science Seminar Series-Texas A&M University in Galveston, NOAA Fisheries Service, Galveston, TX, USA.
- 2006 Recent Advance in Marine Science Seminar Series-Texas A&M University in Galveston, NOAA Fisheries Service, Galveston, TX, USA.

14. PRESENTATION DETAILS (oral except as stated):

2021 2021 Ocean Science Conference, **Wei, C.-L.***, Lin, Y.-S., Moriaki Yasuhara, M., Hong, Y., Chao, A., Harnik, P. G., Liu, J.T., Lin, H.-L. Assessing living and dead benthic foraminiferal assemblages on the heterogeneous seafloor off SW Taiwan. Apr 28-30, 2021, National Penghu University of Science & Technology, Penghu, Taiwan

Paul G. Harnik⁶, James T. Liu², Hui-Ling Lin

2020 Ocean Science Meeting, Levin, L.A.* , **Wei, C.-L.**, Dunn, D.C., Ashford, O., Cheung, W.W.L., Colaço, A., Escobar-Briones, E., Davies, H.H., Drazen, J., Ismail, K., Jones, D., Johnson, D. Le, J.T., Lejerowicz, F., Mitarai, S., Morato, T., Mulsow, S., Snelgrove, P.V.R. Climate Change Considerations are Fundamental to Sustainable Management of Deep-Seabed Ecosystems. 16th-21st Feb, 2020, San Diego, CA., USA.

2019 Development and Prospects for Benthic Lander in IONTU. **Wei, C.-L.***, September 9, 2019, Physical Oceanographic Seminar, Institute of Oceanography, National Taiwan University

2019 2019 Taiwan Geosciences Assembly (TGA), **魏志潏***、廖健翔、塗子萱、王珮玲、林立虹、林玉詩、劉祖乾, 台灣西南海域大陸邊緣底棲群聚呼吸率研究。 14th-17th May, 2019, Nangang Exhibition Center, Taipei, Taiwan

2019 2019 Taiwan Geosciences Assembly (TGA), Chen, H.-C., **Wei, C.-L.***, 臺灣西南海域高屏海底峽谷深海多毛類分類多樣性及功能多樣性之分布。 14th-17th May, 2019, Nangang Exhibition Center, Taipei, Taiwan

2019 2019 Taiwan Geosciences Assembly (TGA), Liao, J.-X., **Wei, C.-L.***, 臺灣西南海域高屏峽谷之深海線蟲多樣性與功能群。 14th-17th May, 2019, Nangang Exhibition Center, Taipei, Taiwan

2019 Development of Future Outlook of IONTU benthic lander. **Wei, C.-L.***, Jheng, S.-Y., Shie, S.-C., Her, W.-H., April 9, 2019, Chemical Oceanographic Seminar, Institute of Oceanography, National Taiwan University

- 2018 Environmental Cross-disciplinary Seminar. **Wei, C.-L.*** Habitat Heterogeneity, Energy and Disturbance Regulate Deep-sea Diversity. Have we learned enough to predict the future of the deep-sea? November 5, 2018, Global Change Research Center, International Degree Program in Climate Change and Sustainable Development, National Taiwan University
- 2018 Biodiversity estimation in time and space: a macroecological perspective of community assembly and diversity patterns, **Wei, C.-L.***, Rowe, G. T. Productivity controls taxonomical and functional diversity in the deep sea, October 24, 2018, University of Ryukyu, Okinawa, Japan
- 2018 15th Deep-Sea Biology Symposium, **Wei, C.-L.***, Liao, J.-X, Chen, G.-M, Chiou, M.-D., Jan, S. Internal tides affect benthic community structure in an energetic submarine canyon off SW Taiwan (poster), September 9-14, Monterey Conference Center, Monterey, USA
- 2018 15th Deep-Sea Biology Symposium, Application of basic deep-sea science to societal issues: Climate change in the deep ocean. Levin, L.A.* , LeBris, N., Dunn, D., **Wei, C.-L.**, Cheung, W., Thompson, T., Baker, M., Morato, T., Salvanes, M.C., Colaco, A., Xavier, J., September 9-14, Monterey Conference Center, Monterey, USA
- 2018 4th International Symposium on the Effects of Climate Change on the World's Ocean, Climate-human-policy connections in the deep-ocean ecosystem. Levin, L.A.* , **Wei, C.-L.**, Cheung, W., Dunn, D., June 4-8, Washington, DC, USA.
- 2018 4th International Symposium on the Effects of Climate Change on the World's Ocean, Vulnerability of deep sea fishes to climate change. Cheung, W.* , **Wei, C.-L.**, Levin, L.A. June 4-8, Washington, DC, USA.
- 2018 4th International Symposium on the Effects of Climate Change on the World's Ocean, Utility of habitat suitability modelling tools for evaluating changes in VME distribution under future climate scenarios. Morato, T.* , Dominguez-Carrió, C., Davis, A., Carreiro-Silva, M., Sweetman, A., **Wei, C.-L.** June 4-8, Washington, DC, USA.
- 2018 2018 World Conference on Marine Biodiversity, Utility of habitat suitability modelling tools for evaluating changes in VME distribution

- under future climate scenarios. Morato, T.* , Dominguez-Carrió, C., Davis, A., Carreiro-Silva, M., Sweetman, A., **Wei, C.-L.**, May 13-16, Palais des congrès de Montréal, Québec, Canada.
- 2018 2018 World Conference on Marine Biodiversity, Productivity Controls Macrofauna Diversity in the Deep Northern Gulf of Mexico. Rowe, G.T.* , **Wei, C.-L.** May 13-16, Palais des congrès de Montréal, Québec, Canada.
- 2018 2018 World Conference on Marine Biodiversity, Cusson, M.* , **Wei, C.-L.**, Archambault, P., et al. Canada's Three Oceans of Seafloor Biodiversity: patterns, hotspots, and potential drivers. May 13-16, Palais des congrès de Montréal, Québec, Canada.
- 2018 2018 Ocean Science Conference, **Wei, C.-L.*** , Liao, J.-X. Infauna biomass, production and size spectrum in the Gaoping Submarine Canyon off the SW Taiwan. May 2-3, Chientan Youth Activity Centerm, Taipei, Taiwan
- 2018 The 65th Annual Meeting of the Ecological Society of Japan, **Wei, C.-L.*** , Liao, J.-X, Chen, G.-M, Chiou, M.-D., Jan, S. Internal tides affect benthic community structure in an energetic submarine canyon off SW Taiwan, March 14 to 18, Sapporo Convention Center, Sapporo, Japan
- 2017 2017 Ocean Science Conference, Liao, J.-X., Chen, G.-M., Chiou, M., Jan, S., **Wei, C.-L.*** Internal Tides Affect Benthic Community Structure in the Gaoping Submarine Canyon (GPSC). May 4-5, National Sun Yat-sen University, Kaohsiung, Taiwan
- 2017 Biodiversity seminar series, **Wei, C.-L.*** Interplays between Disturbance and Food Supplies on Deep-Sea Benthos. 4th January, Department of Life Science, National Chung-Hsing University, Taichung, Taiwan
- 2016 Joint Workshop on Regional Oceanography Study Liao, J.-X, Chen, G.-M, **Wei, C.-L.*** , Chiou, M.-D., Jan, S. Interplays between disturbance and food supplies on submarine Canyon Benthos. 4th-6th December, Hong Kong University of Science and Technology, Hong Kong
- 2016 NTU-UTOKYYO Joint Conference: Searching Solution to Grand Challenges in East Asia, Liao, J.-X, Chen, G.-M, **Wei, C.-L.*** , Chiou, M.-

- D., Jan, S. Interplays between disturbance and food supplies on benthic communities in a high-particle-yield submarine canyon off the SW Taiwan, 30th November - 1st December, Sungreat International Convention Hall, NTU, Taipei, Taiwan
- 2016 3rd INCISE International Submarine Canyon Symposium, **Wei, C.-L.***, Chen, G.-M., Liao, J.-X. Effects of sediment source-sink dynamics on deep-sea benthos in the submarine canyon, 25th-27th July, 2016, Victoria, BC, Canada
- 2016 2016 Taiwan Geosciences Assembly (TGA), Liao, J.-X.* , **Wei, C.-L.**, Chen, G.-M., Effects of sediment source-sink dynamics on benthos in the submarine canyon, 16th-20th May, 2016, Nangang Exhibition Center, Taipei, Taiwan
- 2016 International Symposium on Oceanic and Atmospheric Research in the South China Sea. **Wei, C.-L.***, Liao, J.-X., Chen, G.-M., From mountains to deep sea: Submarine geohazards on deep-sea benthos, 19th-20th, January, 2016, Howard Civil Service Internaltion House, Taipei, Taiwan
- 2015 IUT seminar series, **Wei, C.-L.*** Patterns & drivers in deep-sea macroecology and how undersea technology can help? October 23, 2015, Institute of Undersea Technology, College of Marine Science, National Sun Yat-sen University, Kaohsiung, Taiwan
- 2015 2015 Deep-sea biology symposium, **Wei, C.-L.***, Rowe, G. T. Role of Energy and Environmental Heterogeneity on Deep-Sea Macrofauna diversity (poster), Aveiro, Portugal, 31st August - 4th September 2015
- 2015 2015 Ocean Science Conference, **Wei, C.-L.***, Rowe, G.T., Al-Ansi, M., Al-Maslamani, I., Soliman, Y., Al-Ansari, I.S., Al-Shaikh, I., Quigg, A., Nunnally, C., Abdel-Moati, M.A., Macrobenthos in the Central Arabian Gulf: a Reflection of Climate Extremes and Variability. April 30-May 1, The Garden Villa, Kaohsiung, Taiwan
- 2014 IEEB seminar series, **Wei, C.-L.*** Distribution and Biomass in the Deep Sea: Present and the Future. December 12, Institute of Ecology and Evolutionary Biology, National Taiwan University, Taipei, Taiwan

- 2014 Lunch seminar series, **Wei, C.-L.*** Deep Sea Benthos Under Climate Change. November 3rd, College of Marine Science, National Sun Yat-sen University, Kaohsiung, Taiwan
- 2014 Department seminar series, **Wei, C.-L.*** Distribution and standing biomass of deep-sea benthos with implications of climate change impacts. October 31, Department of Geology, National Taiwan University, Taipei, Taiwan
- 2014 Environmental seminar series, **Wei, C.-L.*** Distribution and standing biomass of deep-sea benthos with implications of climate change impacts., September 18, Department of Mathematics, National Taiwan University, Taipei, Taiwan
- 2014 43rd Annual Benthic Ecology Meeting, **Wei, C.-L.***, Cusson, M.; Archambault, P.; Snelgrove, P.V.R.; Belley, R.; Bourque, M.; Burd, B.J.; Conley, K.; Scrosati, R.; Lemieux, J.; Lévesque, M.; Link, H.; Piot, A.; Ramey-Balci, P.A.; Séguin, A. Toward Assessing Canada's Seafloor Biodiversity: the Canadian Healthy Oceans Network's (CHONe) Three Oceans of Benthic Biodiversity Database (TOBBS) (poster). March 19-22, Jacksonville, Florida, USA.
- 2014 Department of Ocean Science seminar series, Ocean Science Centre, Memorial University of Newfoundland, **Wei, C.-L.*** Predicting Deep-Sea Benthic Biomass Present and Future. March 20, St. John's, Newfoundland, Canada
- 2014 Département des sciences fondamentales conférence, Université du Québec à Chicoutimi, **Wei, C.-L.*** Predicting Deep-Sea Faunal Patterns and Drivers Present and Future. March 13, Chicoutimi, Québec, Canada
- 2014 Ocean Science Meeting, Jones, D. O.*, Yool, A., **Wei, C.-L.**, Ruhl, H. A., Gehlen, M. Global Reductions in Seafloor Biomass in Response To Climate Change (in Climate Impacts on Living Marine Resources). February 27, Honolulu, Hawaii, USA
- 2014 Ocean Science Meeting, Shantharam, A. K.*, Baco, A. R., **Wei, C.-L.**, Rowe, G. T. Initial Descriptions of Macrofaunal Community Structure of The Desoto Canyon Following the Deepwater Horizon Oil Spill

(poster) (in Ocean Pollution: The Gulf of Mexico as a case study).
February 25, Honolulu, Hawaii, USA

- 2014 Ocean Science Meeting, **Wei, C.-L.***, Roy, V., B elanger, S., Lawton, P., Snelgrove, P., Archambault, P. A Multi-Scale Approach to Predicting Deep-Sea Epifaunal Biomass in the Canadian High Arctic Using Remotely Sensed Data (poster) (in Arctic in Rapid Transition (ART): Impacts of Climate Change on the Ecology, Biogeochemistry, and Biological Carbon Pump of the Arctic Ocean). February 25, Honolulu, Hawaii, USA. [\[Link\]](#)
- 2013 IMECE seminar series, Institute of Marine Environmental Chemistry and Ecology, National Taiwan Ocean University, **Wei, C.-L.*** Predicting Deep-Sea Faunal Patterns and Drivers Present and Future. March 27, Keelung, Taiwan
- 2013 IO seminar series, Institute of Oceanography, National Taiwan University, **Wei, C.-L.*** Predicting Deep-Sea Faunal Patterns and Drivers Present and Future. March 29, Taipei, Taiwan
- 2013 Biology seminar series, Biology Department & Ocean Science Centre, Memorial University of Newfoundland. **Wei, C.-L.*** Deep-ocean management: understanding distribution and standing stocks of deep-sea benthos. February 8, St. John's, Newfoundland, Canada
- 2012 Guest lecture in Biology 4605/7220 Quantitative Methods in Biology, Memorial University of Newfoundland. **Wei, C.-L.*** Introduction to Multivariate Analysis, November 28, St. John's, Newfoundland, Canada
- 2012 Canadian Healthy Oceans Network (CHONe) 4th Annual Conference. **Wei, C.-L.***, Snelgrove, P.V.R, Lawton, P. and Rowe, G. T. A new tool for predicting seafloor biomass from satellite data (poster), October 24-27, Ottawa, Canada
- 2012 Benthic Ecology Working Group 2012 Meeting. **Wei, C.-L.***, Rowe, G.T., Haedrich, R.L., Boland, G.S. Long-term observation of epibenthic fish in the deep Gulf of Mexico. 7-11 May, Sandgerdi, Iceland
- 2012 Benthic Ecology Working Group 2012 Meeting. **Wei, C.-L.***, Rowe, G.T., Briones, E.E., Nunnally, C., Soliman, Y., Ellis, N. Mapping macrofaunal

biomass in the deep Gulf of Mexico with bathymetry and surface ocean colors. 7-11 May, Sandgerdi, Iceland

- 2010 The J. Frederick Grassle Science Symposium on the Census of Marine Life. **Wei, C.-L.***, Rowe, G.T. , Escobar-Briones, E. , et al. Global patterns and predictions of seafloor biomass (talk and poster). 5-6 Oct, Royal Society, London, UK.
- 2010 Student Research Symposium, **Wei, C.-L.***, Pitcher, C.R. , Ellis, N. , Smith, S., Shirley, T.C., Rowe, G.T. . Using a decision tree methods to model distribution of deep-sea species in response to physical environment in the northern Gulf of Mexico (poster). Texas A&M University at Galveston, 21 April, Galveston, TX, USA,
- 2010 Ocean Science Meeting. **Wei, C.-L.***, Rowe, G.T. , Pitcher, C.R. , Ellis, N. , Smith, S., Shirley, T.C. Using a new tree methods to model distribution of deep-sea species in response to physical environment in the northern Gulf of Mexico. 22-26 February, Portland, Oregon, USA
- 2009 Recent Advance in Marine Science Seminar Series-Texas A&M University in Galveston. **Wei, C.-L.***, Rowe, G.T., Hubbard, G.F. , Scheltema, A.H. , Wilson, G.D.F. , Petrescu, I. , Forster, J. , Wicksten, M.K. , Chen, M., Davenport, R., Soliman, Y., Wang, Y. The bathymetric zonation of benthic macrofauna in relation to seafloor environments and export POC flux in the Northern Gulf of Mexico. 29 September, NOAA Fisheries Service, Galveston, USA.
- 2009 Marine Geological and Biological Habitat Mapping (GEOHAB). Pitcher, C.R.* , Ellis, N., Lawton, P., Incze, L.S., Smith, S.J., Shirley, T.C., **Wei, C.-L.**, Rowe, G.T. , Wolff, N.H., Greenlaw, M.E. Analysis of relationships between seabed species/assemblages and their physical environment using Random Forests statistical methods (poster). 5-8 May, Trondheim, Norway.
- 2009 Student Research Symposium. **Wei, C.-L.***, Rowe, G.T. Nutrient Enrichment on Benthic Biodiversity by the Effects of Mississippi River and Submarine Canyon in the Northern Gulf of Mexico (poster). 23 April, Texas A&M University at Galveston, USA.
- 2008 AGU Fall Meeting. **Wei, C.-L.** and Rowe, G.T. Nutrient Enrichment Effects on Benthic Biodiversity by the Mississippi River and Submarine

Canyon of the Northern Gulf of Mexico., 14-19 December, San Francisco, CA, USA.

- 2008 Student Research Symposium. **Wei, C.-L.***, Rowe, G.T., Haedrich, R., and Boland, G. Long-term observation of fish zonation in the northern Gulf of Mexico (poster). 23 April, Texas A&M University at Galveston, TX, USA.
- 2008 Ocean Science Meeting. **Wei, C.-L.***, Rowe, G.T., Haedrich, R., and Boland, G. Long-term observation of fish zonation in the northern Gulf of Mexico (poster). 2-7 March, Orlando, FL. USA.
- 2007 Student Research Symposium. **Wei, C.-L.***, Rowe, G.T. GIS modeling of large benthic invertebrate in relation to the deep currents off the coast of North Carolina (poster). 11 April, Texas A&M University at Galveston, Galveston, TX, USA.
- 2007 ASLO Aquatic Science Meeting. **Wei, C.-L.***, Rowe, G.T. The bottom-up control of macrofaunal zonation in the deep northern Gulf of Mexico. 4-9 February, Santa Fe, NM, USA
- 2006 Recent Advance in Marine Science Seminar Series-Texas A&M University in Galveston. **Wei, C.-L.***, Rowe, G.T.. The bathymetric zonation of deep-sea macrobenthos in the Northern Gulf of Mexico. September 26, NOAA Fisheries Service, Galveston, USA.
- 2006 ICES Annual Science Conference. **Wei, C.-L.**, Rowe, G.T.* The bathymetric zonation and community structure of deep-sea macrobenthos in the northern Gulf of Mexico. 19–23 Sep, Maastricht, The Netherlands
- 2006 11th Deep-Sea Biology Symposium, The bathymetric zonation of deep-sea macrobenthos in the Northern Gulf of Mexico (poster). **Wei, C.-L.***, Rowe, G.T. 9-14 July, Southampton, UK
- 2006 Ecological Integration Student Research Symposium. **Wei, C.-L.***, Rowe, G.T. The bathymetric zonation of deep-sea macrobenthos in the Northern Gulf of Mexico (poster). 1 Apr, Texas A&M University, College Station, TX, USA

2006 Ocean Science Meeting. **Wei, C.-L.***, Rowe, G.T. The bathymetric zonation of deep-sea macrobenthos in the Northern Gulf of Mexico (poster). 19-24 Feb, Honolulu, Hawaii, USA

*Corresponding author

15. CONFERENCE / MEETING ORGANIZATION:

2019 Deep Ocean Climate Connections workshop, La Jolla, California, 4-6, June, 2019, Organizers: Lisa Levin, Daniel Dunn, **Chih-Lin Wei**

2016 Tohoku Marine Associated Marine Science (TEAMS) and Institute of Oceanography National Taiwan University (IONTU) workshop on impacts of marine ecosystems by natural disasters, Taipei, Taiwan, 15 June, 2016, Organizers: **Chih-Lin Wei**, Hiroshi Kitazato

2012 Canadian Healthy Oceans Network (CHONe) Spatial Analysis Workshop, Montreal, Quebec, Canada, 17-22 February, 2012, Organizers: Paul Snelgrove, Peter Lawton, **Chih-Lin Wei**

16. MANUSCRIPT IN PREPARATION:

1. Stratmann, T.* , Soetaert, K., **Wei, C.-L.**, van Oevelen, D. (Submitted) The Role of Benthos in the Global Marine Carbon Cycle. Global Biogeochemical Cycles.

*Corresponding author

17. REFEREED PUBLICATIONS:

*Corresponding author

^Equal contribution

1. Soliman*, Y.S., Rowe, G.T., Wicksten, M., Wei, C.-L., (2022) Diversity and Zonation of Benthic Amphipod Crustaceans Affected by the Mississippi Submarine Canyon in the Northern Gulf of Mexico. Frontiers in Marine Science 0. [\[link\]](#)
2. Hong, Y., Yasuhara, M., Iwatani, H., Chao, A., Harnik, P., Wei, C.-L. (2021) Paleoecology reveals climate and pollution driven benthic turnover in an urbanized subtropical seascape. Anthropocene

3. Liu, H.* , Nour El-Din, N., Rowe, G., Al-Ansi, M., **Wei, C.-L.**, Soliman, Y., Nunnally, C., Quigg, A., Al-Ansari, I. S., Al-Maslamani, I., Abdel-Moati, M. A. (2021) Characteristics and renewal of zooplankton communities under extreme environmental stresses in the oligotrophic hypersaline Arabian Gulf. *Progress in Oceanography* [\[link\]](#)
4. Washburn, T.W.* , Jones, D.O.B., **Wei, C.-L.**, Smith, C.R. (2021) Environmental heterogeneity throughout the Clarion-Clipperton Zone and the potential representativity of the APEI network. *Frontiers in Marine Science*. *fmars.2021.661685* [\[link\]](#)
5. Shantharam, A., **Wei, C.-L.**, Silva, M., Baco-Taylor, A.R.* (2021) Macrofauna Diversity and Community Structure of the DeSoto Canyon and Adjacent Slope. *Marine Ecology Progress Series* 664:23-42. [\[link\]](#)
6. Sandulli, R.* , Ingels, J., Zeppilli, D., Sweetman, A. K., Hardy, S. M., Mienis, F., **Wei, C.-L.** (2020). EDITORIAL for Special Issue "Extreme Benthic Communities in the Age of Global Change" *Frontiers in Marine Science* Global Change and the Future Ocean. *Frontiers in Marine Science*. 7 [\[link\]](#)
7. Yasuhara, M., Huang, H.-H. M., Hull, P., Rillo, M. C., Condamine, F. L., Tittensor, D. P., Kučera, M., Costello, M. J., Finnegan, S., O’Dea, A., Hong, Y., Bonebrake, T. C., McKenzie, N. R., Doi, H., **Wei, C.-L.**, Kubota, Y., and Saupe, E. E. (2020) Time machine biology: cross-timescale integration of ecology, evolution, and oceanography. *Oceanography*. [\[link\]](#)
8. Liao, J.-X., **Wei, C.-L.***, Yasuhara, M. (2020) Species and functional diversity of deep-sea nematodes in a high energy submarine canyon. *Frontiers in Marine Science*. [\[link\]](#) [\[Press Release\]](#) [\[Press Release\]](#)
9. Levin, L.* , **Wei, C.-L.**, Dunn, D., Amon, D., Ashford, O., Cheung, W., Colaco, A., Dominguez-Carrió, C., Escobar, E., Harden-Davies, H., Drazen, J., Ismail, K., Jones, D., Johnson, D., Le, J., Lejzerowicz, F., Mitarai, S., Morato, T., Mulsow, S., Snelgrove, P., Sweetman, A., Yasuhara, M. (2020) Climate Change Considerations are Fundamental to Management of Deep-Sea Resource Extraction, *Global Change Biology*. 26(9):4664-4678 [\[link\]](#)

10. Stratmann, T., van Oevelen, D., Arbizu, P.M., **Wei, C.-L.**, Jian-Xiang, Liao, J.-X., Cusson, M., Scrosati, R.A., Archambault, P., Snelgrove, P.V.R., Ramey-Balci, P.A., Burd, B.J., Kenchington, E., Gilkinson, K., Belley, R., Soetaert, K. (2020) The BenBioDen database, a global database for meio-, macro- and megabenthic biomass and densities. Scientific Data . [\[link\]](#)
11. Yasuhara, M.*[^], **Wei, C.-L.**[^], Kucera, M., Costello, M.J., Tittensor, D.P., Kiessling, W., Bonebrake, T.C, Tabor, C., Feng, R., Baselga, A., Kretschmer, K., Kusumoto, B., Kubota, Y. (2020) Past and future decline of tropical pelagic biodiversity. Proceedings of the National Academy of Sciences of the U.S.A [\[link\]](#) [\[Press Release\]](#) [\[Press Release\]](#) [\[Press Release\]](#) [\[Press Release\]](#)
12. Puerta, P.* , Johnson, C., Carreiro-Silva, M., Henry, L.-A., Kenchington, E., Morato, T., Kazanidis, G., Rueda, J. L., Urra, J., Ross, S., **Wei, C.-L.**, González-Irusta, J. M., Arnaud-Haond, S., Orejas, C. (2020) Influence of water masses on the biodiversity and biogeography of deep-sea benthic ecosystems in the North Atlantic. Frontiers in Marine Science. 21 [\[link\]](#)
13. Chao, A.* , Kubota, Y., Zelený, D., Chiu, C.-H., Li, C.-F., Kusumoto, B., Yasuhara, M., Thorn, S., **Wei, C.-L.**, Costello, M.J., Colwell, R.K. (2020) Quantifying sample completeness and comparing diversities among assemblages. Ecological Research. [\[link\]](#) [\[PDF\]](#)
14. **Wei, C.-L.*** , Chen, M., Wicksten, M., Rowe, G. T. (2020) Macrofauna Bivalve Diversity from the Deep Northern Gulf of Mexico. Ecological Research. [\[link\]](#)
15. Kusumoto, B.* , Costello, M.J., Kubota, Y., Shiono, T., **Wei, C.-L.**, Yasuhara, M., Chao, A. (2020) Global distribution of coral diversity: biodiversity knowledge gradients related to spatial resolution. Ecological Research. [\[link\]](#) [\[PDF\]](#)
16. Morato, T.* , González-Irusta, J., Dominguez-Carrió, C., **Wei, C.-L.**, and 56 others (2020) Climate-induced changes in the suitable habitat of cold-water corals and commercially important deep-sea fishes in the North Atlantic. Global Change Biology. [\[link\]](#) [\[PDF\]](#)
17. Chiu, W.-T. R.[^], Yasuhara, M.*[^], Cronin, T. M., Hunt, G., Gemery, L., **Wei, C.-L.**[^] (2020) Marine latitudinal diversity gradients, niche

- conservatism, and out of the tropics and Arctic: climatic sensitivity of small organisms. *Journal of Biogeography*. [\[link\]](#)
18. Gallo, N.D.* , Beckwith, M., **Wei, C.-L.** , Levin, L.A., Kuhnz, L., Barry, J. (2020) Dissolved oxygen and temperature best predict deep-sea fish community structure in the Gulf of California with implications for climate change. *Marine Ecology Progress Series*. [\[link\]](#) [\[Video\]](#) [\[Press Release\]](#) [\[Press Release\]](#)
19. **Wei, C.-L.**, Cusson, M.* , Archambault, P., Belley, R., Brown, T., Burd, B.J., Edinger, E., Kenchington, E., Gilkinson, K., Link, H., Ramey-Balci, P.A., Scrosati, R.A., Snelgrove, P.V.R. (2020) Seafloor Biodiversity of Canada's Three Oceans: patterns, hotspots, and potential drivers. *Diversity and Distribution*. 26(2):226-241 [\[link\]](#) [\[PDF\]](#) [\[Press Release\]](#) [\[Press Release\]](#)
20. Stratmann, T., Soetaert, K., **Wei, C.-L.**, Lin, Y.-S., van Oevelen, D. (2019) The SCOC database – a large, open, and global database with sediment community oxygen consumption rates. *Scientific Data* 242. [\[link\]](#) [\[Press Release\]](#)
21. Cheung, C. W. R., Yasuhara, M., Iwatani, H., **Wei, C.-L.**, Dong, Y. (2019) Benthic community history in the Changjiang (Yangtze River) mega delta: Damming, urbanization, and environmental control. *Paleobiology*. 45(3): 469-483 [\[link\]](#)
22. Jöst, A. B.^, Yasuhara, M.*^, **Wei, C.-L.**^, Okahashi, H., Ostmann, A., Arbizu, P. M., Svavarsson, J., Brix, S. (2019) North Atlantic Gateway: Test bed of deep-sea macroecological patterns. *Journal of Biogeography*. 46(9): 2056-2066 [\[link\]](#) [\[PDF\]](#)
23. Lin, Y.-S., Lin, H.-T., Wang, B.-S., Wang, P.-L., **Wei, C.-L.**, Lee, H.-F., Lan, T, Huang, W.-J., Chen, S.-C., Wang, Y.-S., Su-C.-C.* (2019) Early diagenesis and carbon remineralization in young rift sediment of the Southern Okinawa Trough. *Terrestrial Atmospheric and Oceanic Sciences*. 30:633-647 [\[link\]](#)
24. **Wei, C.-L.*** , Rowe, G.T. (2019) Productivity controls macrofauna diversity in the deep northern Gulf of Mexico. *Deep Sea Research Part I*. 143:17-27 [\[link\]](#)

25. Huang, S.-P., Chen, T.-Y., Chen, J.-S., Wang, L.-T., Huang, L.-N., Lin, S.-T., **Wei, C.-L.**, Lin, S., Wang, P.-L., Shieh, W.-Y.* (2018) *Dongshaea marina* gen. nov., sp. nov., a facultatively anaerobic marine bacterium that ferments glucose with gas production. *International Journal of Systematic and Evolutionary Microbiology* [\[link\]](#)
26. Lin, Y.-T., Tu, T.H., **Wei, C.-L.**, Rumble, D., Lin, L.-H., Wang, P.-L.* (2018) Steep redox gradient and biogeochemical cycling driven by deeply sourced fluids and gases in a terrestrial mud volcano. *FEMS Microbiology Ecology* 94. [\[Link\]](#) [\[PDF\]](#)
27. Snelgrove, P.V.R.* , Soetaert, K., Solan, M., Thrush, S., **Wei, C.-L.**, Danovaro, R., Fulweiler, R., Kitazato, H., Ingole, B., Norkko, A, Parkes, R.J., Volkenborn, N. (2018) Global Carbon Cycling on a Heterogeneous Seafloor. *Trends in Ecology & Evolution*. 33(2):96-105 [\[Link\]](#) [\[PDF\]](#) [\[Press Release\]](#) [\[Press Release\]](#)
28. Liao, J.-X., Chen, G.-M., Chiou, M., Jan, S., **Wei, C.-L.*** (2017). Internal tides affect benthic community structure in an energetic submarine canyon off SW Taiwan. *Deep Sea Research Part I: Oceanographic Research Papers*. 125: 147-160 [\[Link\]](#) [\[PDF\]](#) [\[Press Release\]](#)
29. Sweetman, A.K.* , Thurber, A.R., Smith, C.R., Levin, L.A., Mora, C., **Wei, C.-L.**, Gooday, A.J., Jones, D.O.B., Rex, M., Yasuhara, M., Ingels, J., Ruhl, H.A., Frieder, C.A., Danovaro, R., Würzberg, L., Baco, A., Grupe, B.M., Pasulka, A., Meyer, K.S., Dunlop, K.M., Henry, L.-A., Roberts, J.M. (2017). Major impacts of climate change on deep-sea benthic ecosystems. *Elementa: Science of the Anthropocene*. 5: 4 [\[Link\]](#) [\[PDF\]](#)
30. Stuart, C.T.* , Brault, S., Rowe, G.T., **Wei, C.-L.**, Wagstaff, M., McClain, C.R., Rex, M.A., (2016) Nestedness and species replacement along bathymetric gradients in the deep sea reflect productivity: a test with polychaete assemblages in the oligotrophic north-west Gulf of Mexico. *Journal of Biogeography*. 44(3):548-555. [\[Link\]](#) [\[PDF\]](#)
31. Yasuhara*, M., Doi, H.* , **Wei, C.-L.***, Danovaro, R., Myhre, S. H. (2016) Biodiversity-ecosystem functioning relationships in long-term time series and palaeoecological records: deep sea as a test bed. *Philosophical Transactions B* 371 : 2015028 [\[Link\]](#) [\[PDF\]](#)

32. **Wei, C.-L.***, Rowe, G.T., Al-Ansi, M., Al-Maslamani, I., Soliman, Y., Al-Ansari, I.S., Al-Shaikh, I., Quigg, A., Nunnally, C., Abdel-Moati, M.A. (2016) Macrobenthos in the Central Arabian Gulf: a Reflection of Climate Extremes and Variabilities. *Hydrobiologia* 770:53-72. [\[Link\]](#) [\[PDF\]](#)
33. Jones, D.O.B.*, Yool, A., **Wei, C.-L.**, Henson, S.A., Ruhl, H.A., Watson, R.A., Gehlen, M. (2014). Global reductions in seafloor biomass in response to climate change. *Glob. Change Biol.* 20 (6), 1861–1872. [\[Link\]](#) [\[PDF\]](#) [\[Press Release\]](#)
34. Mora, C.* , **Wei, C.-L.**, Rollo, A., Amaro, T., Baco, A.R., Billett, D., Bopp, L., Chen, Q., Collier, M., Danovaro, R., Gooday, A.J., Grube, B.M., Halloran, P.R., Ingels, J., Jones, D.O.B., Levin, L.A., Nakano, H., Norling, K., Ramirez-Llodra, E., Rex, M., Ruhl, H.A., Smith, C.R., Sweetman, A.K., Thurber, A.R., Tjiputra, J.F., Usseglio, P., Watling, L., Wu, T., Yasuhara, M. (2013). Biotic and Human Vulnerability to Projected Changes in Ocean Biogeochemistry over the 21st Century. *PLoS Biology* 11, e1001682. [\[Link\]](#) [\[PDF\]](#) [\[Press Release\]](#)
35. Carvalho, R.* , **Wei, C.-L.**, Rowe, G. T., Schulze, A. (2013) Complex depth-related patterns in the taxonomic and functional diversity of polychaetes in the Gulf of Mexico. *Deep Sea Research Part I: Oceanographic Research Papers* 80, 66-77. [\[Link\]](#) [\[PDF\]](#)
36. Quigg, A.* , Al-Ansi, M., Al Din, N. N., **Wei, C.-L.**, Nunnally, C., Al-Ansari, I.S., Rowe, G., Soliman, Y., Al-Maslamani, I., Mahmoud, I., Youseff, N., Abdel-Moati, M.A. (2013) Phytoplankton along the coastal shelf of an oligotrophic hypersaline environment in a semi-enclosed marginal sea: Qatar and the Arabian Gulf. *Continental Shelf Research* 60, 1–16. [\[Link\]](#) [\[PDF\]](#)
37. **Wei, C.-L.***, Rowe, G.T., Haedrich, R.L., Boland, G.S. (2012) Long-term observations of epibenthic fish zonation in the deep northern Gulf of Mexico. *PLoS One* 7(10): e46707 [\[Link\]](#) [\[PDF\]](#)
38. **Wei, C.-L.***, Rowe, G.T., Escobar-Briones, E., Nunnally, C., Soliman, Y., Ellis, N. (2012) Standing stocks and body size of deep-sea macrofauna: Predicting the baseline for 2010 BP oil spill in the northern Gulf of

- Mexico. Deep Sea Research Part I: Oceanographic Research Papers 69:82-99 [\[Link\]](#) [\[PDF\]](#)
39. Pitcher, C.R.* , Lawton, P., Ellis, N., Smith, S., Incze, L., **Wei, C-L.**, Greenlaw, M., Wolff, N., Sameoto, J., Snelgrove, P.V.R. (2012) Exploring the role of environmental variables in shaping patterns of seabed biodiversity composition in regional-scale ecosystems. *Journal of Applied Ecology* 49 (3), 670-679 [\[Link\]](#) [\[PDF\]](#)
40. **Wei, C-L.*** , Rowe, G.T., Nunnally, C., Wicksten, M.K. (2012) Anthropogenic "litter" and macrophyte detritus in the deep northern Gulf of Mexico. *Marine Pollution Bulletin* 64: 966-973. [\[Link\]](#) [\[PDF\]](#)
41. **Wei, C-L.*** , Rowe, G.T., Escobar-Briones, E., Boetius, A., Soltwedel, T., Caley, M.J., Soliman, Y., Huettmann, F., Qu, F., Yu, Z., Pitcher, CR., Haedrich, R.L., Wicksten, M.K., Rex, M.A., Baguley, J.G., Sharma, J., Danovaro, R., MacDonald, I.R., Nunnally, C.C., Deming, J.W., Montagna, P., Lévesque, M., Weslawski, J.M., Wlodarska-Kowalczyk, M., Ingole, B.S., Bett, B.J., Billett, D.S.M., Yool, A., Bluhm, B.A., Iken, K., Narayanaswamy, B.E. (2010) Global Patterns and Predictions of Seafloor Biomass Using Random Forests. *PLoS One* 5:e15323 [\[Link\]](#) [\[PDF\]](#) [\[Highlights on Discovery News\]](#)
42. **Wei, C-L.*** , Rowe, G.T., Hubbard, G.F., Scheltema, A.H., Wilson, G.D.F., Petrescu, I., Foster, J., Wicksten, M.K., Chen, M., Davenport, R., Soliman, Y., Wang, Y. (2010) Feature Article: Bathymetric zonation of deep-sea macrofauna in relation to export of surface phytoplankton production. *Marine Ecology Progress Series* 399:1-14 [\[Link\]](#) [\[PDF\]](#) [\[Highlights on Deep-Sea News\]](#)
43. **Wei, C-L.**, Rowe, G.T.* (2009) Faunal zonation of large epibenthic invertebrates off North Carolina revisited. *Deep Sea Research Part II: Topical Studies in Oceanography* 56:1830-1833 [\[Link\]](#) [\[PDF\]](#)
44. Rowe, G.T.* , **Wei, C-L.**, Nunnally, C., Haedrich, R., Montagna, P., Baguley, J.G., Bernhard, J.M., Wicksten, M., Ammons, A., Briones, E.E., Soliman, Y., Deming, J.W. (2008) Comparative biomass structure and estimated carbon flow in food webs in the deep Gulf of Mexico. *Deep Sea Research Part II: Topical Studies in Oceanography* 55:2699-2711 [\[Link\]](#) [\[PDF\]](#)

*Corresponding author

18. CONFERENCE PAPERS:

1. Rowe, G. T. *, **Wei, C.-L.**, Al-Ansi, M., Soliman, I.A.-M.Y., Soliman, Y., El-Din, N. N., Al-Ansari, I. S., Al-Shaikh, I., Quigg, A., Nunnally, C., Youseff, N., Abdel-Moati, M. A. (2015) The dynamics of the coastal food webs in the Central Arabian Sea. QScience Proceedings 2015:2
2. **Wei, C.-L.***, Rowe, G.T. (2006) The bathymetric zonation and community structure of deep-sea macrobenthos in the northern Gulf of Mexico. ICES Annual Science Conference, 19–23 Sep, Maastricht, The Netherlands, 92 pp.

*Corresponding author

19. THESES:

1. **Wei, C.-L.** (2011) Standing stocks and faunal zonation of deep-sea benthos: patterns and predictions across scales. PH. D. Dissertation, Texas A&M University, 311 pp [\[Link\]](#)
2. **Wei, C.-L.** (2007) The bathymetric zonation and community structure of deep-sea macrobenthos in the northern Gulf of Mexico. M. S. Thesis, Texas A&M University, 92 pp. [\[Link\]](#)

20. REVIEWER FOR:

- 2021 Progress in Oceanography (1)
- 2020 Marine Ecology Progress Series (1), Frontiers in Marine Science (1), Ministry of Science and Technology Oceanography (1)
- 2019 Deep-Sea Research I (1), Ministry of Science and Technology Oceanography (1), Ecological Research (1)
- 2018 Scientific Report (1), Deep-Sea Research I (1)
- 2017 Scientific Report (1), Nature Ecology & Evolution (1), Deep-Sea Research II (1), Zoological Studies (1)

- 2016 PLOS One (1), Zoological Studies (1), Marine Ecology Progress Series (1), Ministry of Science and Technology Oceanography (2), Marine Biodiversity (1), Biogeochemistry (1)
- 2015 Ministry of Science and Technology Oceanography (1), Marine Ecology Progress Series (1)
- 2014 Deep-Sea Research I (1), PLoS One (2), Global Ecology and Biogeography (1), Marine Ecology Progress Series (1), Ecology (1)
- 2013 Marine Ecology Progress Series (1), PLoS One (1), Deep-Sea Research I (1), Diversity and Distribution (1), Estuaries and Coasts (1), Marine Ecology (1)
- 2012 Marine Ecology Progress Series (1), Proceedings of the National Academy of Sciences of the United States of America (1), Marine Pollution Bulletin (2), Global Ecology and Biogeography (1), National Science Foundation Biological Oceanography (1), Journal of Coastal Research (1), PLoS (1)
- 2011 Marine Ecology Progress Series (1), PLoS One (1), Proceedings of the Royal Society Biological Science (1), National Science Foundation Biological Oceanography (1), Environmental Science & Technology (1)
- 2010 Marine Ecology Progress Series (1), Journal of Sea Search (1)

() Bracket states the numbers of manuscript reviewed for each journal

21. OCEANOGRAPHIC CRUISES (212 days at sea):

1. 16-25 April, 2022, R/V New Ocean Researcher I (NOR1-0029), **Chih-Lin Wei**, Chief Scientist, Formosa Canyon and Taiwan Bank Survey
2. 11 - 13 April, 2022, R/V New Ocean Researcher I (NOR1-T010), **Hui-Ting Lin**, Chief Scientist, Chemical Oceanography Training Cruise
3. 29-31 October, 2021, R/V New Ocean Researcher I (NOR1-T011), **Chih-Lin Wei**, Chief Scientist, Biological Oceanography Training Cruise

4. 13 - 15 March, 2021, R/V New Ocean Researcher I (NOR1-T011), **Chih-Lin Wei**, Chief Scientist, Biological Oceanography Training Cruise
5. 10 - 12 March, 2021, R/V New Ocean Researcher I (NOR1-T010), **Hui-Ting Lin**, Chief Scientist, Chemical Oceanography Training Cruise
6. 29 November - 1 December, 2020, R/V New Ocean Researcher I (NOR1-T007), **Yiing-Jang Yang**, Chief Scientist, Physical Oceanography Training Cruise
7. 11-16 November, 2020, R/V New Ocean Researcher I (NOR1-T004), **Chih-Lin Wei**, Chief Scientist, Biological Oceanography Training Cruise
8. 1-3 November, 2019, R/V Ocean Researcher I (OR1-1244), **Chih-Lin Wei**, Chief Scientist, IONTU MB&F Graduate Student Training Cruise
9. 15 October-23 October, 2019, R/V Ocean Researcher I (OR1-1242), **Chih-Lin Wei**, Chief Scientist, Observing Seafloor Carbon Cycling off the SW Taiwan by an Autonomous Benthic Lander
10. 27 July-5 August, 2019, R/V Ocean Researcher I (OR1-1235), **Wei-Jen Chen**, Chief Scientist, Biodiversity exploration in the deep sea: usage of emerging technologies and integrated approach to meet new challenges (Sakizaya 2019)
11. 30 March-3 April, 2019, R/V Ocean Researcher I (OR1-1219), **Chih-Lin Wei**, Chief Scientist, Observing Seafloor Carbon Cycling off the SW Taiwan by an Autonomous Benthic Lander
12. 23-25 February, 2019, R/V Legend (LGD-T28), Char-Shine Liu, Chief Scientist, Exploration of Cold Seeps and Mud Volcano off SW Taiwan
13. 8-10 October, 2018, R/V Ocean Researcher I (OR1-1210), **Chih-Lin Wei**, Chief Scientist, IONTU MB&F Graduate Student Training Cruise
14. 25 March-3 April, 2018, R/V Ocean Researcher I (OR1-1190), **Chih-Lin Wei**, Chief Scientist, SW Taiwan Benthic Diversity and Ecosystem Function Cruise
15. 2-3 March, 2018, R/V Ocean Researcher I (OR1-1187), **Chih-Lin Wei**, Chief Scientist, IONTU Marine Instrumentation Center Test Cruise

16. 2-4 November, 2017, R/V Ocean Researcher I (OR1-1182), **Chih-Lin Wei**, Chief Scientist, IONTU MB&F Graduate Student Training Cruise
17. 4-6 August, 2017, R/V Ocean Researcher I (OR1-1171), **Chih-Lin Wei**, Chief Scientist, IONTU Summer Student Training Cruise
18. 18-24 July, 2017, R/V Ocean Researcher I (OR1-1169), **Chih-Lin Wei**, Chief Scientist, Gaoping Submarine Canyon Benthic Diversity and Ecosystem Function Cruise
19. 25-27 October, 2016, R/V Ocean Researcher I (OR1-1151), **Chih-Lin Wei**, Chief Scientist, IONTU MB&F Graduate Student Training Cruise
20. 31 May-8 June, 2016, R/V Ocean Researcher I (OR1-1138), Andrew Lin, Chief Scientist, Southwest Taiwan Submarine Geohazard and Biodiversity Cruise
21. 7-19 March, 2016, R/V Ocean Researcher I (OR1-1132), Chang-Feng Dai, Chief Scientist, South China Sea Marine Biodiversity Cruise
22. 17-18 February, 2016, R/V Ocean Researcher I (OR1-1128), Sen Jen, Chief Scientist, IONTU Marine Instrumentation Center Testing Cruise
23. 19-21 November, 2015, R/V Ocean Researcher I (OR1-1126), **Chih-Lin Wei**, Chief Scientist, IONTU MB&F Graduate Student Training Cruise
24. 4-6 August, 2015, R/V Ocean Researcher I (OR1-1114), **Chih-Lin Wei**, Chief Scientist, IONTU Summer Student Training Cruise
25. 11-13 March, 2015, R/V Ocean Researcher I (OR1-1099), Chun-Mao Tseng, Chief Scientist, IONTU Chemical Oceanography Student Training Cruise
26. 23-25 November, 2014, R/V Ocean Researcher I (OR1-1096), Ming-Huei Chang, Chief Scientist, IONTU MB&F Graduate Student Training Cruise
27. 2-6 July, 2010, R/V Miktabar Al Bihar, Mehsin Abdullah Al-Ansi, Chief Scientist, Community structure, ecosystem metabolism and carbon flow as components of integrated assessment for the integrity “health” of the Qatar coastal water environments.

- 28.8 - 14 July, 2005, R/V Gyre, Steve DiMarco, Chief Scientist, Mechanism Control Hypoxia on the Louisiana Shelf (MCH), Cruise 6
- 29.23 - 29 March, 2005, R/V Gyre, Steve DiMarco, Chief Scientist, Mechanism Control Hypoxia on the Louisiana Shelf (MCH), Cruise 4
- 30.20 - 26 August, 2004, R/V Gyre, Steve DiMarco, Chief Scientist, Mechanism Control Hypoxia on the Louisiana Shelf (MCH), Cruise 3
- 31.25 Jun - 1 July, 2004, R/V Gyre, Steve DiMarco, Chief Scientist, Mechanism Control Hypoxia on the Louisiana Shelf (MCH), Cruise 2
- 32.2 - 8 April, 2004, R/V Gyre, Steve DiMarco, Chief Scientist, Mechanism Control Hypoxia on the Louisiana Shelf (MCH), Cruise 1
- 33.1 - 15 August 2002, R/V Gyre, Gilbert. T. Rowe, Chief Scientist, Deepwater Program: Northern Gulf of Mexico Continental Slope Habitats and Benthic Ecology (DGoMB), Cruise IIIb, Joint Studies of the Sigsbee Deep with Universidad Nacional Autonoma de Mexico.
- 34.1 - 15 June 2002, R/V Gyre, Gilbert. T. Rowe, Chief Scientist, Deepwater Program: Northern Gulf of Mexico Continental Slope Habitats and Benthic Ecology (DGoMB), Cruise III, Joint Studies of the Sigsbee Deep with Universidad Nacional Autonoma de Mexico.
- 35.5 - 10 April 2002, R/V Gyre, Gilbert. T. Rowe, Chief Scientist, Deepwater Program: Northern Gulf of Mexico Continental Slope Habitats and Benthic Ecology (DGoMB), Cruise IIa.