張水鍇 (Shui-Kai Chang) 論文著作

(A) 期刊論文 (*Correspondent author)

1. **Chang*, S.-K.**, Chen, Y.-C., Phuah, T.L. 2026. Diagnosing a governance trap: Policy paralysis in a complex social-ecological system. *Humanities & Social Sciences Communications* (SSCI, IF=3.6, Humanities, Multidisciplinary, 3/419=0.72%; Social Sciences, Interdisciplinary, 19/273=6.96%)

2. Hsieh, H.-C., Hoyle, S.D., Davies, C.H., **Chang*, S.-K.** 2026. Spatiotemporal variation in the length–weight relationship of Pacific yellowfin tuna reflects biological and fishery factors and affects aggregate weight estimation. *ICES J Mar Sci* 83, fsag103. Doi: 10.1093/icesjms/fsag103. (SCI, IF=3.4, Marine & Fresh Bio, 9.42%) （共同第一作者、通訊作者）

3. **Chang*, S.-K.**, Yuan, T.-L., Fukuda, H., Xu, H., Nakatsuka, S., Lee, H., Maunder, M. 2026. Spatiotemporal standardization of Taiwanese longline CPUE reveals cohort-resolved recovery patterns in Pacific bluefin tuna (Thunnus orientalis). *ICES J Mar Sci* 83, fsag087. doi: 10.1093/icesjms/fsag087 (SCI, IF=3.4, Marine & Fresh Bio, 9.42%) （第一作者、通訊作者）

4. Wen, C. K.-Chang, Heatwole, S.J., Heard, J.B., Price, N.W., Ho M.-J., **Chang, S.-K.**, Chen, C.A., Ren, H. 2026. High coral cover offsets the impacts of high fishing pressure on fish biomass in a remote coral reef system. *Aquatic Conserv: Mar Freshw Ecosyst* xx, doi: 10.1002/aqc.70409. (SCI, IF=2.2, Marine & Fresh Bio, 25.21%)

5. Kang, D.-R., M.-Y. Kuo, **S.-K. Chang**, J.-Y. Wu, T.-Y. Liao, M.-F. Lin, S.-M. Chao, L.-L. Liu. 2025. Contrasting Structural Changes in Two Benthic Invertebrate Communities After an Extraordinary Rainfall Event in Liuqiu Island, Taiwan. *Zoological Studies* 64, 23. doi:10.6620/ZS.2025.64-23 (SCI, IF=1.4, Zoology, 39.91%)

6. Saycon, D.R., **S.-K. Chang***, T.-Y. Fan, C.-L. Lee, Y.-C. Chang, P.-A. Chateau*. 2025. Exploratory analysis of marine reserve site selection by Monte Carlo mixed integer programming. *Ocean & Coastal Management* 267, 107712. doi: 10.1016/j.ocecoaman.2025.107712. (SCI, IF=5.4, Oceanography, 4.62%; Water Resources 12.88%) （共同通訊作者）

7. Yuan, T.-L., H. Xu, B.-J. Lu, **S.-K. Chang***. 2024. Comparison of linear and nonlinear modeling approaches to develop an abundance index based on voyage and market data for a data-limited fishery. *Frontiers in Marine Science* 11: 1344181. doi: 10.3389/fmars.2024.1344181 (SCI, IF=3.0, 11.67%) (投稿 11/25/2023，接受4/8/2024，刊出5/8/2024) （共同第一作者、通訊作者）

8. Huang, S.-C., Y. Chang*, **S.-K. Chang.** 2024. From regional effectiveness evaluation and community engagement toward effective marine protected areas. *Ocean & Coastal Management* 251, 107075. doi:

10.1016/j.ocecoaman.2024.107075 (SCI, IF=5.4, Oceanography, 4.62%; Water Resources 12.88%)

9. Haas*, B., S. Oh, K. Dalton, **S.-K. Chang**, J. Fitzpatrick, K. Minami, H. Matsui, G. (Julia) Xue, J.-E. An, K. Azmi, R. Davis, H.-Y. Lin, M.-H. Jung, Q. Hanich. 2023. Untangling jurisdictional complexities for crew labour regulations on fishing vessels in the Western and Central Pacific Ocean. *International Journal of Marine and Coastal Law* 1, 1–20. doi: 10.1163/15718085-bja10120. (SSCI, IF=2.1, Law 9.23%)

10. Huang, S.-C., **S.-K. Chang***, C.-C. Lai, T.-L. Yuan, J.-S. Weng and J.-S. He. 2022. Length–weight relationships, growth models of two croakers (*Pennahia macrocephalus* and *Atrobucca nibe*) off Taiwan and growth performance indices of related species. *Fishes* 7(5), 281. doi: 10.3390/fishes7050281. (SCI, IF=2.4, ranking 24.17%) （通訊作者）

11. Frawley*, T.H., B. Muhling, H. Welch, K.L. Seto, **S.-K. Chang**, F. Blaha, Q. Hanich, M. Jung, E.L. Hazen, M.G. Jacox and S. Brodie. 2022. Clustering of disaggregated fisheries data reveals functional longline fleets across the Pacific. *One Earth* 5, 1002–1018. doi: 10.1016/j.oneear.2022.08.006. (SSCI, IF=15.3, Environmental Studies 2.07%; Environmental Sciences 2.66%)

12. **Chang*, S.-K.**, Y.-T. Chou and S.D. Hoyle. 2022. Length-weight relationships and otolith-based growth curves for brushtooth lizardfish off Taiwan with observations of region and aging-material effects on global growth estimates. *Frontiers in Marine Science* 9:921594. doi: 10.3389/fmars.2022.921594. (SCI, IF=3.0, ranking 11.67%)（第一作者、通訊作者）

13. **Chang*, S.-K.**, T.-L. Yuan, S.D. Hoyle, J.H. Farley and J.-C. Shiao. 2022. Growth parameters and spawning season estimation of four important flyingfishes in the Kuroshio Current off Taiwan and implications from comparisons with global studies. *Frontiers in Marine Science* 8:747382. doi: 10.3389/fmars.2021.747382. (SCI, IF=3.0, ranking 11.67%)（第一作者、通訊作者）

14. Huang, C.-C., **S.-K. Chang***, S.-W. Shyue. 2021. Sustain or phase out: transformation of Taiwan's management scheme on distant water tuna longline fisheries. *Marine Policy*, 123: 104297. (Chang SK and Huang CC contributed equally to the work.) doi:10.1016/j.marpol.2020.104297. (SSCI, IF=3.7, 6.47%; 34.20%)（通訊作者）

15. **Chang*, S.-K.** 2020. Taboos/norms and modern science, and possible integration for sustainable management of the flyingfish resource of Orchid Island, Taiwan. *Sustainability*, 12: 8621. doi:10.3390/su12208621. (SSCI, IF=3.3, 65.05%; 47.34%; 41.45%)（第一作者、通訊作者）

16. Maunder*, M.N., Thorson, J.T., Xu, H., Oliveros-Ramos, R., Hoyle, S.D., Tremblay-Boyer, L., Lee, H.H. Kai, M., **Chang, S.-K.**, Kitakado, T, Albertsen, C.M., Minte-Vera, C.V., Lennert-Cody, C.E., Aires-da-Silva, A.M., Piner, K.R. 2020. The need for spatio-temporal modeling to determine catch-per-unit effort based indices of abundance and associated composition data for

inclusion in stock assessment models. *Fisheries Research*, 229: 105594. doi:10.1016/j.fishres.2020.105594 (SCI, IF=2.3, 34.43%)

17. **Chang*, S.-K.**, N.-T. A. Hu, S. Basir, H.V. Duyen, P. Nootmorn, M.D. Santos, F. Satria. 2020. A step forward to the joint management of the South China Sea fisheries resources: joint works on catches, management measures and conservation issues. *Marine Policy*, 116: 103716. doi: 10.1016/j.marpol.2019.103716. (SSCI, IF=3.7, 6.47%; 34.20%).（第一作者、通訊作者）

18. Chang, Y.-J., J. Hsu, J.-C. Shiao, **S.-K. Chang.** 2019. Evaluation of the effects of otolith sampling strategies and ageing error on estimation of the age composition and growth curve for Pacific bluefin tuna *Thunnus orientalis*. *Marine and Freshwater Research*, 70:1838-1849. (SCI, IF=1.8, 43.40%)

19. Liu, T.-M., **S.-K. Chang***. 2019. Changes in local knowledge and its impacts on ecological resources management: the case of flyingfish culture of the Tao in Taiwan. *Marine Policy*, 103:74-83. (Chang SK and Liu TM contributed equally to the work). (SSCI, IF=3.8, 13.54%)（通訊作者）

20. **Chang*, S.-K.**, T.-L. Yuan, S.-P. Wang, Y.-J. Chang and G. DiNardo*. 2019. Deriving statistically reliable abundance index from landing data: an application to Taiwanese coastal dolphinfish fishery with multi-species feature. *Transactions of the American Fisheries Society*, 148:106-122. (SCI, IF: 1.4, ranking: Fisheries 62.96%). doi: 10.1002/tafs.10125（第一作者、通訊作者）

21. **Chang*, S.-K.**, H.-I Liu, H. Fukuda and M.N. Maunder. 2017. Data reconstruction can improve abundance index estimation: An example using Taiwanese longline data for Pacific bluefin tuna. *PLoS ONE*,12(10): e0185784. (SCI, IF: 3.240, ranking: Multidisplinary Sciences 36.11%). doi: 10.1371/journal.pone.0185784.（第一作者、通訊作者）

22. Shiao*, J.-C., H.-B. Lu, J. Hsu, H.-Y. Wang, **S.-K. Chang**, M.-Y. Huang and T. Ishihara. 2017. Changes in size, age, and sex ratio composition of Pacific bluefin tuna (*Thunnus orientalis*) on the northwestern Pacific Ocean spawning grounds. *ICES Journal of Marine Sciences*, 74:204-214. (SCI, IF: 3.593, ranking: Fisheries 16.36%; Marine and Freshwater Biology 13.64%) doi: 10.1093/icesjms/fsw142.

23. Wang, Y.-S. and **S.-K. Chang***. 2017. Is MSC eco-labelling workable in Taiwan? Responses from various sectors of the Taiwanese sergestid shrimp fishery. *Marine Policy*, 77: 164-170. (SSCI, IF=4.173, 8.42%) doi:10.1016/j.marpol.2017.01.004.（通訊作者）

24. **Chang*, S.-K.** 2016. From subsidy evaluation to effort estimation: Advancing the function of voyage data recorders for offshore trawl fishery management. *Marine Policy*, 74: 99-107. (SSCI, IF=4.173, 8.42%) doi:10.1016/j.marpol.2016.09.017 December.（第一作者、通訊作者）

25. Chou, C.-E., F.-Y. Wang, **S.-K. Chang** and H.-W. Chang*. 2016. Complete mitogenome of three flyingfishes *Cheilopogon unicolor, Cheilopogon arcticeps* and *Cheilopogon atrisignis* (Teleostei: Exocoetidae). *Mitochondrial DNA Part B* 1: 134-135. doi: 10.1080/23802359.2016.1144096.

26. Chou, C.-E., T.-Y. Liao, H.-W. Chang* and **S.-K. Chang***. 2015. Population structure of *Hirundichthys oxycephalus* in the northwestern Pacific inferred from mitochondrial cytochrome oxidase I gene. *Zoological Studies*, 54:19. doi:10.1186/s40555-014-0085-4 (SCI, IF: 1.008/2016, ranking: Zoology 85/161) (S-K Chang is the primary corresponding author)

27. **Chang*, S.-K.** 2015. Precious corals become more precious in the Northwestern Pacific: urgent need for integrated policy. *Marine Policy* 52: 103-107. doi:10.1016/j.marpol.2014.10.020 (SSCI, IF: 2.865, ranking: International Relations 9.89%).

28. **Chang*, S.-K.** and T.-L. Yuan. 2014. Deriving high-resolution spatiotemporal fishing effort of large-scale longline fishery from vessel monitoring system (VMS) data and validated by observer data. *Canadian Journal of Fisheries and Aquatic Sciences* 71(9): 1363-1370. doi:10.1139/cjfas-2013-0552 (SCI, IF:2.466/2016, Fisheries 10/50).

29. **Chang*, S.-K.** 2014. Constructing logbook-like statistics for coastal fisheries using coastal surveillance radar and fish market data. *Marine Policy*, 43: 338–346. doi:10.1016/j.marpol.2013.07.003 (SSCI, IF: 2.865, ranking: International Relations 9.89%)

30. **Chang*, S.-K.** 2014. Conserving northwestern Pacific straddling fish stocks through bottom-up transboundary collaboration. China Oceans Law Review 2014(2): 1-25.

31. **Chang*, S.-K.**, G. DiNardo, J. Farley, J. Brodziak and T.-L. Yuan. 2013. Possible stock structure of dolphinfish (*Coryphaena hippurus*) in Taiwan coastal waters and globally based on reviews of growth parameters. *Fisheries Research*, 147: 127-136. doi:10.1016/j.fishres.2013.05.003 (SCI, IF: 2.185/2016, ranking: Fisheries 11/50).

32. Yang, Y.-C., H.-Z. Wang and **S.-K. Chang***. 2013. Social dimensions in the success of marine protected area – a case in a Taiwan fishing community. *Coastal Management,* 41(2): 161-171. doi:10.1080/08920753.2013.768519 (SSCI. IF: 1.303/2016, ranking: Environmental Studies; SCI Environmental Science 163/229).

33. **Chang*, S.-K.**, Y.-C. Yang and N. Iwasaki. 2013. Whether to employ trade controls or fisheries management to conserve precious corals (Coralliidae) in the Northern Pacific Ocean. *Marine Policy,* 39: 144-153. doi:10.1016/j.marpol.2012.09.007 ((SSCI, IF: 2.865, ranking: International Relations 9.89%)

34. Chang, C.-W., C.-H. Lin, Y.-S. Chen, M.-H. Chen and **S.-K. Chang***. 2012. Age validation, growth estimation and cohort dynamics of the bony flying fish *Hirundichthys oxycephalus* off eastern Taiwan. *Aquatic Biology,* 15: 251-260.

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41. **Chang*, S.-K.**, S. Hoyle and H.-I Liu. 2011. Catch rate standardization for yellowfin tuna (*Thunnus albacares*) in Taiwan's distant-water longline fishery in the Western and Central Pacific Ocean, with consideration of target change. *Fisheries Research,* 107: 210-220. doi: 10.1016/j.fishres.2010.11.004 (SCI, IF: 1.903/2014, ranking: Fisheries 11/52=21.15%).

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in Agriculture, 75: 44-51. doi: 10.1016/j.compag.2010.09.009 (SCI, IF: 1.761/2014, ranking: Agriculture, Multidisciplinary 6/56=10.71%).

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44. **Chang, S.-K.**, G. DiNardob and T. T. Lin*. 2010. Photo-based approach as an alternative method for collection of albacore (*Thunnus alalunga*) length frequency from longline vessels. *Fisheries Research*, 105(3): 148-155. doi: 10.1016/j.fishres.2010.03.021 (SCI, IF: 1.903/2014, ranking: Fisheries 11/52=21.15%).

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(B) 國際科學會議（五國以上）科學論文

1. **Chang, S.-K.,** Y.-H. Tai, T.-L. Yuan. 2026. Sensitivity Analysis of Standardized CPUE for Taiwan's Pacific Bluefin Tuna Fishery: Addressing Potential Bias from Early Quota Closure in 2024 and 2025. Pacific Bluefin Tuna Working Group Intersessional Workshop of the ISC, 24-27 March 2026, Sapporo, Japan. ISC/26/PBFWG-1/0x.

2. **Chang, S.-K.,** Y.-H. Tai. 2026. Updated abundance indices for the Taiwanese Pacific bluefin tuna longline fishery using GLMM and VAST models. Pacific Bluefin Tuna Working Group Intersessional Workshop of the ISC, 24-27 March 2026, Sapporo, Japan. ISC/26/PBFWG-1/01.

3. Yuan, T.-L., **S.-K. Chang***, H. Xu. 2024. Developing abundance indices for Taiwanese PBF longline fishery using GLMM and VAST, incorporating SST and size data. Pacific Bluefin Tuna Working Group Intersessional Workshop of the ISC, 29 February to 8 March 2024, Kaohsiung, Taiwan. ISC/24/PBFWG-1/05.

4. **Chang, S.-K**. 2023. Brief investigation of Taiwan PBF length frequency data. Pacific Bluefin Tuna Working Group Intersessional Workshop of the ISC, 27 November to 1 December 2023, Webniar.
5. Yuan, T.-L., **S.-K. Chang***, H. Xu. 2023. PBF abundance indices from Taiwanese offshore longline fisheries using delta-GLMM and VAST, incorporating SST and size data. Pacific Bluefin Tuna Working Group Intersessional Workshop of the ISC, 27 November to 1 December 2023, Webniar. ISC/23/PBFWG-2/04.
6. Macdonald, J., P. Williams, F. Roupsard, C. Sanche, L. Bell, **S.-K. Chang**, R. B. B. Contreras, M. Ghergariu, M. Hosken, S. Hoyle, S. N. Cuu, T. Park, J. Potts, E. Schneiter, S. Nicol. 2023. Project 90 update: Better data on fish weights and lengths for scientific analyses. Scientific Committee Nineteenth Regular Session, WCPFC. WCPFC-SC19-2023/ST-IP-04.
7. Kang, D.-R., L.-L. Liu, **S.-K. Chang**. 2023. Mass mortality of coral reef intertidal benthos aftermath a prolonged heavy rainfall in Liuqiu Island, Taiwan. 5th Asia-Pacific Coral Reef Symposium (APCRS), 19 to 23 June 2023, Singapore (poster).
8. Hoyle, S., **S.-K. Chang***, J. MacDonald. 2023. Length-weight relationships for bigeye tuna based on Taiwanese observer data. 2023 SPC Pre-Assessment Workshop (PAW). 25 to 28 April, 2023, Noumea.
9. Yuan, T.-L., **S.-K. Chang***, Y. Chang. 2023. CPUE standardization for Taiwanese PBF fisheries using delta-GLMM and VAST, incorporating SST and size data. Pacific Bluefin Tuna Working Group Intersessional Workshop of the ISC, 21 to 24 March 2023, Shinagawa, Japan. ISC/23/PBFWG-1/02.
10. **Chang, S.-K.**, B.-J. Lu, T.-L. Yuan. 2021. Update of relative CPUE (up to 2021) of Taiwanese PBF fisheries using delta-generalized linear mixed models (GLMM) and vector-auto-regressive spatiotemporal model (VAST). Pacific Bluefin Tuna Working Group Intersessional Workshop of the ISC, 14 to 21 December 2021, Webinar meeting. ISC/21/PBFWG-2/02.
11. Yuan, T.-L., **S.-K. Chang**, H.-I Liu and C.-C. Huang. 2021. Size pattern and relative CPUE of Taiwanese PBF fisheries using delta-generalized linear mixed models (GLMM) and vector-auto-regressive spatiotemporal model (VAST). Pacific Bluefin Tuna Working Group Intersessional Workshop of the ISC, 20 to 27 April 2021, Webinar meeting. ISC/21/PBFWG-1/03.
12. **Chang, S.-K.**, T.-L. Yuan and J. Macdonald. 2021. Developing length-weight relastionships for Pacific BET (preliminary results). 2021 SPC Pre-Assessment Workshop (PAW), Webinar meeting.
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