

# Curriculum Vitae - I-I Lin (林依依)

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## ***Education:***

- B.Sc. in Atmospheric Science, National Taiwan University, Taiwan (1989)
- Ph.D. in Remote Sensing, University of Cambridge, UK (1995)

## ***Current position and relevant experience:***

- 2023-Present: University Chair Professor, National Taiwan University, Taipei, Taiwan.
- 2017-Present: Life-Time Distinguished Professor, Dept. of Atmospheric Sciences, National Taiwan University (NTUAS), Taipei, Taiwan.
- 2014-2017: Chair, Dept. of Atmospheric Sciences, National Taiwan University, Taipei, Taiwan.
- 2013-Present: Distinguished Professor, Dept. of Atmospheric Sciences, National Taiwan University (NTUAS), Taipei, Taiwan.
- 2010-Present: Professor; 2006-2010: Associate Prof.; 2004-2006: Assistant Prof., NTUAS.
- 2011: Director of International Affairs Center (INTERACT), College of Science, NTU.
- 2000-2004: Assistant Research Scientist, National Center for Ocean Research, Taiwan.
- 1995-1999: Research Scientist, Centre for Remote Imaging, Sensing & Processing (CRISP), National University of Singapore, Singapore.

## ***Fields of academic specialty:***

- Tropical Cyclone-Ocean Interaction: Weather, Climate, and Global Warming Scale
- Synergy of Multi-Advanced Remote Sensing for Air-Sea Physical/Biogeochemical Interaction Research

## ***Major awards and honors:***

- May 2024: UN/GOOS (United Nations/Global Ocean Observing System)-Tropical Cyclones Ocean Observations and Forecasts Exemplar Steering Committee [8th WMO Workshop on the Impact of Various Observing Systems on Numerical Weather Prediction and Earth System Prediction] (聯合國全球海洋觀測系統-熱帶氣旋海洋觀測與預報示範指導委員會[「世界氣象組織(World Meteorological Organization, WMO)」第8屆各種觀測系統對數值天氣預報和地球系統預報的影響研討會]) [[Link](#)] [[poster](#)]
- 2024-2027: American Meteorological Society (AMS) Fellows Committee [[Link](#)]
- March 2024: Featured, 'Women's History Month', American Meteorological Society Social Media (美國氣象學會全國婦女歷史月特寫) [[Facebook](#)] [[X \(Twitter\)](#)]
- 2024: Fellow of American Meteorological Society (AMS)
- 2023: US National Academies of Sciences, Engineering, and Medicine Panel, 101st Meeting of the Ocean Studies Board (美國國家科學院 Marine Heat Wave 專家小組)

- 2023: Featured in “Female Power of Taiwan” on the International Women's Day (8 March 2023), Ministry of Foreign Affairs, Taiwan (台灣外交部婦女節國際形象短片) [\[Link\]](#) [\[Link\\_EN\]](#) [\[YouTube\]](#)
- 2023: Editor's Award, American Meteorological Society (AMS)- Bulletin of the American Meteorological Society. The award citation reads "For insightful and detailed comments that have been instrumental in reaching publication decisions on challenging manuscripts"
- 2022-2024: Research.com: Best Environmental Sciences Scientists in Taiwan [\[Link\]](#)
- 2022- Present: UN/GOOS (United Nations/Global Ocean Observing System)-Tropical Cyclones Ocean Observations and Forecasts Exemplar Steering Committee (聯合國全球海洋觀測系統-熱帶氣旋海洋觀測與預報示範指導委員會)
- 2025, 2024, 2023, 2022, 2021: World's top 2% Scientists (Stanford Univ.)
- March 2022: The Ministry of Education's 25th Annual National Chair Professorship Award, Taiwan (教育部第 25 屆國家講座主持人獎)
- June 2021: Invited Formal Seminar, Geophysical Fluid Dynamics Laboratory/National Oceanic and Atmospheric Administration (GFDL/NOAA), Princeton USA
- March 2021: The 14th Taiwan Outstanding Women in Science Award (第十四屆台灣傑出女科學家獎)
- 2018: Fellow, Meteorological Society of Taiwan
- 2017: Cover, Journal of Geophysical Research: Oceans
- 2017: Academic Award, Ministry of Education, Taiwan (教育部第 61 屆學術獎)
- 2015, 2011: Outstanding Research Award, Ministry of Science and Technology, Taiwan (科技部傑出研究獎,兩次)
- 2014: Advisor, Gold Medal (Chen Yu-Hsin), the 2014 Intel ISEF Award in the Earth and Planetary Science discipline, LA, USA
- 2014: Spotlight author, State of Climate Report 2013, NOAA, USA
- 2014: Featured and interviewed in the special documentary ‘Mega Disaster’ of Japan's NHK
- 2013: Research on Super typhoon Haiyan highlighted by Science
- 2013: Image of the Month, AVISO Satellite Altimetry, French Space Agency, CNES
- 2013: One of the Three Major Research Achievements of the Division of Mathematics and Physical Sciences, Academia Sinica, Taiwan (中央研究院數理組三項重要研究成果之一)
- 2009: Twice (February and March) featured by NASA with official press release for research on Indian Ocean Killer Cyclone Nargis (2008), also reported by the USA Today and other press
- 2009: Outstanding Teaching Award, National Taiwan University (國立台灣大學教學傑出獎)
- 2008: Featured by the International Scientific Committee on Ocean Research (SCOR)'s Surface Ocean Lower Atmosphere Study (SOLAS)
- 2007: Ten outstanding Young Women Award, Taiwan (中華民國第十九屆十大傑出女青年)
- 2005: Ta-You Wu Memorial Award for Young Scientists, National Science Council, Taiwan. (行政院國家科學委員會吳大猷先生紀念獎)
- 2005: Taiwan Academia Sinica's Research Award for Young Scientists (中研院年輕學者研究著作獎)
- 2004: American Geophysical Union (AGU) START Young Scientist Award
- 2004: Reported in NASA's 10-years Anniversary of Earth Observation

- 2003: Research highlighted in Nature: News and Views in Brief, 7 August, 2003, vol. 425, no. 6949, pp. 630, 'Oceanography: Bloom in Cyclone'
- 2003: Research highlighted in Nature: News and Views in Brief, 13 March, 2003, vol. 422, no. 6928, pp. 132, 'Atmospheric Science: Quick, quick, slow'
- 2002: Press Conference with NASA 'Latest Ocean Winds Research Creates a Stir - Typhoons a boon for Ocean life', Fall Meeting, American Geophysical Union, USA
- 1992: Award for best presentation of non-native English speaker at the IGS (International Glaciological Society) Symposium on Remote Sensing of Ice and Snow, Boulder, Colorado, USA

## ***Selected Publications***

### **2025**

- Trinanes, J. and **I-I Lin**, Tropical Cyclone Heat Potential [in "State of the Climate in 2024"], *Bulletin of the American Meteorological Society*, Vol. 106, No. 8, S282-S283, doi: 10.1175/BAMS-D-25-0086.1., Aug. 2025. (IF: 5.9).
- Zhao, Yu, Jin-Yi Yu\*, Huang-Hsiung Hsu, **I-I Lin** et al., Trans-Basin Interaction Sustains Multi-Year Marine Heatwaves in the Gulf of Alaska, *npj Climate and Atm. Sci.*, Vol. 8, 298, doi: 10.1038/s41612-025-01187-6, Jul. 2025 (Accepted), Aug. 2025 (Published). (IF: 8.4).
- Guan, Shoude\*, Mengya Huang, **I-I Lin** et al., Widespread Sea Surface Salinification Induced by Tropical Cyclones over the Changjiang River Plume, *Commun Earth Environ*, Vol. 6, 337, doi: 10.1038/s43247-025-02317-x, Apr. 2025 (Accepted), May 2025 (Published). (IF: 8.9)
- Guan, Shoude\*, Ping Liu, Yihan Zhang, **I-I Lin** et al., Enhanced Sea Surface Cooling and Suppressed Storm Intensification during Slow-Moving Track-Turning Stage of Tropical Cyclones, *J. Geophys. Res. Oceans*, Vol. 130, doi: 10.1029/2024JC022234, Feb. 2025. (IF: 3.4)
- Gao, Cong, Lei Zhou\*, **I-I Lin** et al., Crucial role of subsurface ocean variability in tropical cyclone genesis, *Nature Comm.*, Vol. 16, 1050, doi: 10.1038/s41467-025-56433-5, Jan. 2025. (IF: 15.7).
- Liu, Yuhao, Shoude Guan\*, **I-I Lin** et al., Storm Size Modulates Tropical Cyclone Intensification Through an Oceanic Pathway in Global Oceans, *J. Climate*, Vol. 38, p. 891-908, doi: 10.1175/JCLI-D-24-0398.1, Dec. 2024 (Accepted), Jan. 2025 (Online Publication), Feb. 2025 (Print Publication) (IF: 4).
- Liu, Ping, Shoude Guan\*, **I-I Lin** et al., Response and Feedback of Mesoscale Eddies to Tropical Cyclones over the South China Sea, *J. Geophys. Res. Atmos.*, Dec. 2024. Vol. 130, Issue 1, e2024JD041414, doi: 10.1029/2024JD041414, Dec. 2024(Accepted), Jan. 2025(Published). (IF: 3.4).

### **2024**

- Bringas, F., **I-I Lin**, and J. A. Knaff, Tropical Cyclone Heat Potential [in "State of the Climate in 2023"], *Bulletin of the American Meteorological Society*, Vol. 105, No. 8, S261-S263, doi: 10.1175/BAMS-D-24-0098.1., Aug. 2024. (IF: 5.9).
- Guan, Shoude, Fei-Fei Jin\*, Jiwei Tian\*, **I-I Lin**\* et al., Ocean Internal Tides Suppress Tropical Cyclones in the South China Sea, *Nat Commun*, Vol. 15, 3903, doi: 10.1038/s41467-024-48003-y, Apr. 2024(Accepted), May 2024(Published). (IF: 15.7)
- Kang, Sok Kuh\*, Sung-Hun Kim, **I-I Lin** et al., The North Equatorial Current and Rapid Intensification of Super Typhoons, *Nat Commun*, Vol. 15, 1742, doi: 10.1038/s41467-024-45685-2, Feb. 2024(Accepted), Mar. 2024(Published). (IF: 15.7).

- Danso, Derrick Kwadwo\*, Christina M Patricola, Jaison Kurian, Ping Chang, Philip Klotzbach, **I-I Lin**, Air-sea Coupling Influence on Projected Changes in Tropical Cyclone Events, *Weather and Climate Extremes*, Vol. 43, doi: 10.1016/j.wace.2024.100649, Jan. 2024 (Published Online), Feb. 2024 (Version of Record). (IF: 6.9).

## **2023**

- Wu, Chau-Ron\*, Yong-Fu Lin, **I-I Lin**, Jin-Yi Yu\*, Unleashing the Power of the Sun: The Increasing Impact of the Solar Cycle on Off-Season Super Typhoons since the 1990s, *npj Climate and Atmospheric Science*, Vol. 6, 166, doi: 10.1038/s41612-023-00495-z, Oct. 2023. (IF: 8.4).
- Camargo, Suzana J.\*, Hiroyuki Murakami\*, Nadia Bloemendaal, Savin Chand, Medha S. Deshpande, Christian Dominguez-Sarmiento, Juan Jesús González-Alemán, Thomas R. Knutson, **I-I Lin** et al., An Update on the Influence of Natural Climate Variability and Anthropogenic Climate Change on Tropical Cyclones, *Tropical Cyclone Research and Review*, Vol. 12, Issue 3, p. 216-239, doi: 10.1016/j.tccr.2023.10.001, Sep. 2023. (IF: 4.1).
- Liu, Yuhao, Shoude Guan\*, **I-I Lin** et al., Effect of storm size on sea surface cooling and tropical cyclone intensification in the western north Pacific, *Journal of Climate*, Vol. 36, p. 7277-7296, doi: 10.1175/JCLI-D-22-0949.1., Sep. 2023 (Online Publication), Oct. 2023 (Print Publication). (IF: 4).
- Bringas, F., G. J. Goni, **I-I Lin**, and J. A. Knaff, Tropical Cyclone Heat Potential [in "State of the Climate in 2022"], *Bulletin of the American Meteorological Society*, Vol. 104, No. 9, S256-S259, doi: 10.1175/BAMS-D-23-0078.1, Sep. 2023. (IF: 5.9).
- Pun, Iam-Fei\*, Huang-Hsiung Hsu, Il-Ju Moon, **I-I Lin**, and Jin-Yong Jeong, Marine Heatwave as a Supercharger for the Strongest Typhoon in the East China Sea, *npj Climate and Atmospheric Science*, 2023. Vol. 6, 128, doi: 10.1038/s41612-023-00449-5, Aug. 2023. (IF: 8.4).
- **Lin, I-I\*** et al., Poleward Migration as Global Warming's Possible Self-Regulator to Restrain Future Western North Pacific Tropical Cyclone's Intensification, *npj Climate and Atm. Sci.*, Vol. 6, 34, doi: 10.1038/s41612-023-00329-y, Jan. 2023(Accepted), Apr. 2023(Published). (IF: 8.4).

## **2022**

- Camargo, S. J., Hiroyuki Murakami, Nadia Bloemendaal, Savin Chand, Medha S. Deshpande, Christian Dominguez-Sarmiento, Juan Jesús González-Alemán, Thomas R. Knutson, **I-I Lin** et al., Report for the 10th World Meteorological Organization (WMO)'s International Workshop on Tropical Cyclones: Tropical Cyclones and Climate Change, *IWTC-10 report*, 2022. (**Invited**)
- Gao, Cong, Lei Zhou\*, Chunzai Wang, **I-I Lin**, and Raghu Murtugudde, Unexpected limitation of tropical cyclone genesis by subsurface tropical central-north Pacific during El Niño, *Nature Communications*, Vol. 13, 7746, doi: 10.1038/s41467-022-35530-9, Dec. 2022. (IF: 15.7).
- Bringas, F., G. J. Goni, **I-I Lin**, and J. A. Knaff, Tropical Cyclone Heat Potential [in "State of the Climate in 2021"], *Bulletin of the American Meteorological Society*, Vol. 103, No. 8, S246-S248, doi: 10.1175/BAMS-D-22-0069.1., Aug. 2022. (IF: 5.9).

## **2021**

- **Lin, I-I\***, et al., ENSO and Tropical Cyclones. In *El Niño Southern Oscillation in a Changing Climate* (eds M. J. McPhaden, A. Santoso, W. Cai). American Geophysical Union., Chap. 17, pp. 377-408, doi: 10.1002/9781119548164.ch17, Oct. 2020 (First Published), 2021(Copyright Year). (**Invited Chapter, AGU Centennial Celebration Monograph, one of the 4 Books from AGU as special COP26**

## Showcase)

- Domingues, R., G. J. Goni, J. A. Knaff, **I-I Lin**, and F. Bringas, Tropical Cyclone Heat Potential [in "State of the Climate in 2020"], *Bulletin of the American Meteorological Society*, Vol. 102, No. 8, S252-S255, doi: 10.1175/BAMS-D-21-0080.1., Aug. 2021. (IF: 5.9).
- **Lin, I-I\*** et al., A Tale of Two Rapidly-Intensifying Supertyphoons: Hagibis (2019) and Haiyan (2013), *Bulletin of the American Meteorological Society*, Vol. 102, No. 9, E1645–E1664, doi: 10.1175/BAMS-D-20-0223.1, Sep. 2021. (IF: 5.9).

## 2020

- Domingues, R., G. J. Goni, J. A. Knaff, **I-I Lin**, and F. Bringas, Tropical Cyclone Heat Potential [in "State of the Climate in 2019"], *Bulletin of the American Meteorological Society*, Vol. 101, No. 8, S227-S229, doi: 10.1175/BAMS-D-20-0077.1, Aug. 2020. (IF: 5.9).
- Chang, Ya-Ting, **I-I Lin\*** et al., The Association of Typhoon Intensity Increase with Translation Speed Increase in the South China Sea, *Sustainability*, Vol. 12, Issue 3, doi:10.3390/su12030939, Jan. 2020. (IF: 3.3).

## 2019

- Domingues, R. G. J. Goni, J. A. Knaff, **I-I Lin**, and F. Bringas, Tropical Cyclone Heat Potential [in "State of the Climate in 2018"], *Bulletin of the American Meteorological Society*, Vol. 100, No. 9, S133-S135, doi:10.1175/2019BAMSSStateoftheClimate.1, Sep. 2019. (IF: 5.9). **[Invited contribution]**
- Domingues, Ricardo\*, Akira Kuwano-Yoshida, Patricia Chardon-Maldonado, Robert E. Todd, George R. Halliwell, Hyun-Sook Kim, **I-I Lin** et al., Ocean Observations in Support of Studies and Forecasts of Tropical and Extratropical Cyclones, *Frontiers in Marine Science*, Vol. 6, 446, doi:10.3389/fmars.2019.00446, Jul. 2019. (IF: 3). **[Invited]**
- Pun, Iam-Fei\*, Johnny C. L. Chan, **I-I Lin** et al., Rapid Intensification of Typhoon Hato (2017) over Shallow Water, *Sustainability*, Vol. 11, Issue 13, doi:10.3390/su11133709, Jul. 2019. **(Editor's Choice)** (IF: 3.3).

## 2018

- Braun, Scott A., Heather Archambault, **I-I Lin** et al., Ninth WMO International Workshop on Tropical Cyclones: Intensity Change: External Influences, *IWTC-9 report*, 2018. **(Invited)**
- Goni, G.J., J. A. Knaff, **I-I Lin**, and R. Domingues, Tropical Cyclone Heat Potential [in "State of the Climate in 2017"], *Bulletin of the American Meteorological Society*, Vol. 99, No. 8, S129-S132, doi:10.1175/2018BAMSSStateoftheClimate.1, Aug. 2018. (IF: 5.9).
- Pun, Iam-Fei\*, **I-I Lin** et al., Influence of the Size of Supertyphoon Megi (2010) on SST Cooling, *Monthly Weather Review.*, Vol. 146, No. 3, p. 661-677, doi:10.1175/MWR-D-17-0044.1, Mar. 2018. (IF: 3).

## 2017

- **Lin, I-I\***, M.-M. Lu and M.-D. Cheng, Taiwan in the bullseye of several major Typhoons [in "State of the Climate in 2016"], *Special Supplement to BAMS*, Vol. 98, No. 8, S124-S125, Aug. 2017. **[Invited]**
- Huang, H.-C., J. Boucharel, **I-I Lin\***, F.-F. Jin et al., Air-sea fluxes for Hurricane Patricia (2015):..., *J. Geophys. Res. Oceans*, **122**, 6076-6089, doi:10.1002/2017JC012741, Aug., 2017. **[JGR:Ocean 122(8) Cover]**

## **2016**

- Boucharel, J., F.-F. Jin, M. H. England, and **I-I Lin**, Modes of hurricane activity variability in the eastern Pacific..., *Geophys. Res. Lett.*, 43, 11,358-11,366, doi: 10.1002/2016GL070847, Nov. 2016.
- Wu, C.-C.\*, W.-T. Tu, I.-F. Pun, **I-I Lin** and M. S. Peng, Tropical Cyclone-Ocean Interaction in Typhoon Megi (2010)...., *J. Geophys. Res. Atmos.*, **121**, 153-167, doi:10.1002/2015JD024198, Jan., 2016.

## **2015**

- Jin, F.-F.\*, J. Boucharel, and **I-I Lin**, El Nino and intense tropical cyclones Reply, *Nature*, **526**, doi: 10.1038/nature15547, Oct., 2015.
- Mei, W.\*, C.-C. Lien, **I-I Lin**, and S.-P. Xie, Tropical cyclone-induced ocean response: A comparative study..., *J. Climate*, **28**, p 5952-5968, Aug., 2015.
- Zheng, Z.-W., **I-I Lin**\* et al., A Long Neglected Damper in the El Niño – Typhoon Relationship: a ‘Gaia-Like’ Process, *Sci Rep*, **5**, 11103, doi:10.1038/srep11103, Jul., 2015. [NTU highlight and Press release]
- Huang, P., **I-I Lin**\* et al., Change in Ocean Subsurface Environment to Suppress Tropical Cyclone Intensification under Global Warming, *Nat Commun*, Vol. 6, 7188, doi:10.1038/ncomms8188, May 2015. [Reviewed by Knutson et al. BAMS 2020, NTU highlight and Press release]
- **Lin, I-I**\* and J.C.L. Chan, Recent Decrease in Typhoon Destructive Potential and Global Warming Implications, *Nat Commun*, Vol. 6, 7182, doi:10.1038/ncomms8182, May 2015. [NTU highlight and Press release]

## **2014**

- **Lin, I-I**\*, I.-F. Pun and C.-C. Lien, ‘Category-6’ Supertyphoon Haiyan in Global Warming Hiatus: Contribution from Subsurface Ocean Warming, *Geophys. Res. Lett.*, doi:10.1002/2014GL061281, Dec. 2014. [Science highlight, EOS highlight, Japan NHK Special Documentary]
- Jin, F.-F.\*, J. Boucharel, **I-I Lin**, Eastern Pacific Tropical Cyclones Intensified by El Niño Delivery of Subsurface Ocean Heat, *Nature*, Vol. 516, p 82-85, doi:10.1038/nature13958, Dec. 2014. [Nature paper with Press Release in different media]
- Walker, N. D.\*, R. R. Leben, C. T. Pilley, M. Shannon, D. C. Herndon, I.-F. Pun, **I-I Lin** and C. L. Gentemann, Slow translation speed causes rapid collapse of northeast Pacific Hurricane Kenneth over cold core eddy, *Geophys. Res. Lett.*, doi:10.1002/2014GL061584, Vol. 41, Issue 21, p 7595-7601, Nov., 2014.
- D'Asaro, E.A.\*, P.G. Black, L.R. ..., **I-I Lin** et al., Impact of Typhoons on the Ocean in the Pacific: ITOP, *BAMS*, **95**, p.1405-1418, doi:10.1175/BAMS-D-12-00104.1, Sep, 2014.
- Pun, I.-F., **I-I Lin**\*, and Dong S. Ko, New Generation of Satellite-Derived Ocean Thermal Structure for the Western North Pacific Typhoon Intensity Forecasting, *Progress in Oceanography*, Vol. 121, p 109-124, doi: 10.1016/j.pocean.2013.10.004, Feb., 2014.

## **2013**

- Pun, I.-F., **I-I Lin**\*, and M.-H. Lo, Recent Increase in High Tropical Cyclone Heat Potential Area in the Western North Pacific Ocean, *Geophys. Res. Lett.*, 40, p 4680-4684, doi:10.1002/grl.50548, Sep., 2013. [Science highlight, French AVISO Altimetry highlight]
- **Lin, I-I**\*, P. Black et al, An ocean coupling potential intensity index for tropical cyclones, *Geophys. Res. Lett.*, Vol. 40, Issue 9, p. 1878-1882, doi:10.1002/grl.50091, May, 2013. [Reviewed by Sobel et al. Science 2016]

- **Lin, I-I\***, G. J. Goni, et al., Ocean Heat Content for Tropical Cyclone Intensity Forecasting and Its Impact on Storm Surge, *Nat Hazards*, Vol. 66, Issue 3, p 1481-1500, doi:10.1007/s11069-012-0214-5, Apr., 2013.

## **2012**

- **Lin, I-I\***, Typhoon-induced Phytoplankton Blooms and Primary Productivity Increase in the Western North Pacific Subtropical Ocean, *J. Geophys. Res. Oceans*, 117, C03039, doi:10.1029/2011JC007626, Mar. 2012.

## **2011**

- **Lin, I-I\***, M.-D. Chou, and C.-C. Wu, The Impact of a Warm Ocean Eddy on Typhoon Morakot (2009) ..., *Terr. Atmospheric Ocean. Sci.*, Vol. 22, No. 6, p. 661-671, doi:10.3319/TAO.2011.08.19.01(TM), Dec. 2011.
- Pun, I.-F., Y.-T. Chang, **I-I Lin\*** et al., Typhoon-Ocean Interaction in the Western North Pacific, Part 2, *Oceanography*, Vol. 24, No. 4, p. 32-41, doi:10.5670/oceanog.2011.92, Dec. 2011.
- **Lin, I-I\***, C. Hu et al., Fertilisation Potential of Volcanic Dust in the Low Nutrient Low Chlorophyll Western North Pacific ..., *Global Biogeochemical Cycles*, Vol. 25, doi:10.1029/2009GB003758, Feb. 2011.

## **2010**

- **Lin, I-I\***, C.-C. Lien et al., Enhanced Primary Production in the Oligotrophic South China Sea by Eddy Injection, *Geophys. Res. Lett.*, Vol. 37, doi:10.1029/2010GL043872, Aug. 2010.

## **2009**

- **Lin, I-I\***, I.-F. Pun, and C.-C. Wu, Upper Ocean Thermal Structure and the Western North Pacific Category-5 Typhoons Part II: Dependence on Translation Speed, *Mon. Wea. Rev.*, Vol. 137, No. 11, p. 3744-3757, doi:10.1175/2009MWR2713.1, Nov. 2009.
- **Lin, I-I\***, G. T. F. Wong et al., Aerosol Impact on the South China Sea Biogeochemistry: An Early Assessment ..., *Geophys. Res. Lett.*, 36, L17605, doi:10.1029/2009GL037484, Sep. 2009.
- **Lin, I-I\*** et al., Warm Ocean Anomaly, Air Sea Fluxes, and the Rapid Intensification of Tropical Cyclone Nargis (2008), *Geophys. Res. Lett.*, Vol. 36, L03817, doi:10.1029/2008GL035815, Feb. 2009. [**Twice NASA highlight**]

## **2008**

- **Lin, I-I\***, C.-C. Wu et al., Upper-Ocean Thermal Structure and the Western North Pacific Category 5 Typhoons. Part I: ..., *Mon. Wea. Rev.*, Vol. 136, No. 9, p. 3288-3306, doi:10.1175/2008MWR2277.1, Sep. 2008.

## **2007**

- Wu, C.-C.\*, C.-Y. Lee, and **I-I Lin**, The Effect of the Ocean Eddy on Tropical Cyclone Intensity, *J. Atmos. Sci.*, Vol. 64, p. 3562-3578, doi:10.1175/JAS4051.1, Oct. 2007.
- **Lin, I-I\***, J.-P. Chen, G. T. F. Wong, C.-W. Huang, and C.-C. Lien, Aerosol input to the South China Sea: Results from ..., *Deep Sea Res. Part II Top. Stud. Oceanogr.*, doi:10.1016/j.dsr2.2007.05.013, Sep. 2007.

- Pun, I.-F., **I-I Lin**\* et al., Validation and Application of Altimetry-derived Upper Ocean Thermal ..., *IEEE Trans Geosci Remote Sens*, Vol. 45, No. 6, p. 1616-1630, doi:10.1109/TGRS.2007.895950, Jun. 2007.

## **2005**

- **Lin, I-I**, C.-C. Wu\*, K. Emanuel et al., The interaction of Supertyphoon Maemi (2003) with a warm ocean eddy, *Mon. Wea. Rev.*, Vol. 133, No. 9, p. 2635-2649, doi: 10.1175/MWR3005.1, Sep. 2005.

## **2003**

- **Lin, I-I**\* et al., New evidence for enhanced ocean primary production triggered by tropical cyclone, *Geophys. Res. Lett.*, Vol. 30, No. 13, 1718, doi:10.1029/2003GL017141, Jul. 2003. [**Nature, CNN, Associate Press highlight**]
- **Lin, I-I**\*, W. Alpers, and W. T. Liu, First evidence for the detection of natural surface films by the QuikSCAT scatterometer, *Geophys. Res. Lett.*, Vol. 30, No. 13, 1713, doi:10.1029/2003GL017415, Jul. 2003.
- **Lin, I-I**\* et al., Satellite observations of modulation of surface winds by typhoon-induced upper ocean cooling, *Geophys. Res. Lett.*, Vol. 30, No. 3, 1131, doi:10.1029/2002GL015674, Feb. 2003. [**Nature highlight**]

## 林依依台大講座教授 I-I Lin Chair Professor

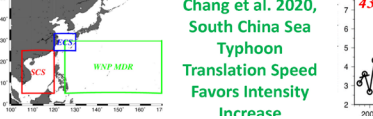
**Education:** B.Sc 國立台灣大學大氣科學系(1989), Ph.D. 英國劍橋大學遙測學博士(1995)

**學術專長:** 跨領域-衛星遙測、大氣與海洋科學 [颱風-海洋交互作用、氣候、與全球暖化、碳循環]

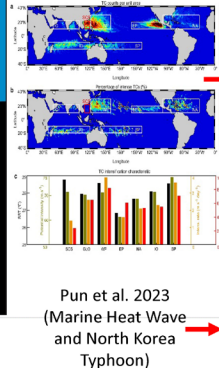
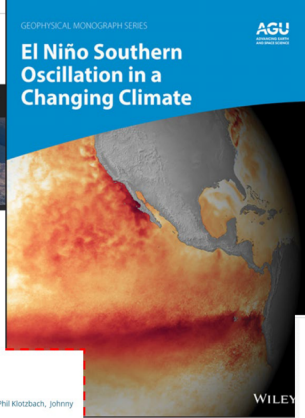
**學術獎勵:** AMS Women's History Month Spotlight (Mar. 2024), AMS Fellow (Jan. 2024), AMS BAMS Editor's Award (Jan. 2023), 教育部國家講座主持人 (2022)、台灣傑出女科學家獎(2021).....



### ENSO and Tropical Cyclones



Chang et al. 2020, South China Sea Typhoon Translation Speed Favors Intensity Increase



Ocean Internal Tides Suppress Tropical Cyclones in the South China Sea. Jin, Guan, Tien, Lin et al. Nature Comm. 2024

Pun et al. 2023 (Marine Heat Wave and North Korea Typhoon)

### A Tale of Two Rapidly Intensifying Supertyphoons

Hagibis (2019) and Haiyan (2013)

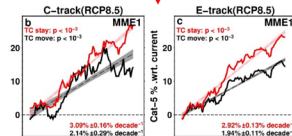
I.-I. Lin, Robert F. Rogers, Hsiao-Ching Huang, Yi-Chun Liao, Derrick Herndon, Jin-Yi Yu, Ya-Ting Chang, Jun A. Zhang, Christina M. Patricola, Ian-Fei Pun, and Chun-Chi Lien

### 2 Record-Breaking Super Typhoons (Haiyan and Hagibis) in Pacific History (Lin et al. BAMS 2021)

ABSTRACT: Devastating Japan in October 2019, Supertyphoon (STY) Hagibis was an important typhoon in the history of the Pacific. A striking feature of Hagibis was its explosive rapid intensification (RI). In 24 h, Hagibis intensified by 100 knots ( $kt; 1 \text{ kt} = 0.51 \text{ m s}^{-1}$ ), making it one of the

### BAMS Article

Lin et al. 2023, npj Clim/Atm: Poleward Migration as Global Warming's Self-Regulator for future TCs



AMS Women's History Month Spotlight: March 2024