**References**

Au-Yeung, A. Y. M., and J. C. L. Chan, 2010: The effect of a river delta and coastal roughness variation on a landfalling tropical cyclone. *J. Geophys. Res.*, **115**, D19121, doi: 10.1029/2009JD013631.

Brand, S., 1970: Interaction of binary cyclones of the western North Pacific Ocean. *J. Appl. Meteor.*, **9**, 433–441, doi: 10.1175/1520-0450(1970)009<0433:IOBTCO>2.0.CO;2.

Carr, L. E., and R. L. Elsberry, 1990: Observational evidence for predictions of tropical cyclone propagation relative to environmental steering. *J. Atmos. Sci.*, **47**, 542-546, doi: 10.1175/1520-0469(1990)047<0542:OEFPOT>2.0.CO;2.

Chan, J. C. L., 1984: An observational study of the physical processes responsible for tropical cyclone motion. *J. Atmos. Sci.*, **41**, 1036-1048, doi: 10.1175/1520-0469(1984)041<1036:AOSOTP>2.0.CO;2.

Chan, J. C. L., and W. M. Gray, 1982: Tropical cyclone movement and surrounding flow relationships. *Mon. Wea. Rev.*, **110**, 1354-1374, doi: 10.1175/1520-0493(1982)110<1354:TCMASF>2.0.CO;2.

Chan, J. C. L., and H. Lam, 1989: Performance of the ECMWF model in predicting the movement of typhoon Wayne (1986). *Wea. Forecasting*, **4**, 234-245, doi: 10.1175/1520-0434(1989)004<0234:POTEMI>2.0.CO;2.

Chan, J. C. L., and A. C. K. Law, 1995: The interaction of binary vortices in a barotropic model. *Meteor. Atmos. Phys.*, **56**, 135-155.

Chan, J. C. L., and R. T. Williams, 1987: Analytical and numerical studies of the beta-effect in tropical cyclone motion. Part I: Zero mean flow. *J. Atmos. Sci.*, **44**, 1257-1265, doi: 10.1175/1520-0469(1987)044<1257:AANSOT>2.0.CO;2.

Chan, J. C. L., F. M. F. Ko, and Y. M. Lei, 2002: Relationship between potential vorticity tendency and tropical cyclone motion. *J. Atmos. Sci.*, **59**, 1317-1336, doi: 10.1175/1520-0469(2002)059<1317:RBPVTA>2.0.CO;2.

Chan, K. T. F., and J. C. L. Chan, 2016: Tropical cyclone recurvature: An intrinsic property?. *Geophys. Res. Lett.*, **43**, 8769-8774, doi: 10.1002/2016GL070352.

DeMaria, M., and J. C. L. Chan, 1984: Comments on “A numerical study of the interactions between two tropical cyclones”. *Mon. Wea. Rev.*, **112**, 1643-1645, doi: 10.1175/1520-0493(1984)112<1643:CONSOT>2.0.CO;2.

Dong, K., and C. Neumann, 1983: On the relative motion of binary tropical cyclones. *Mon. Wea. Rev.*, **111**, 945-953, doi: 10.1175/1520-0493(1983)111<0945:OTRMOB>2.0.CO;2.

Elsberry, R. L., 1995: Chap. 4, Tropical cyclone motion. *Global Perspectives on Tropical Cyclones*. Tech. Doc. WMO/TD-No. 693, World Meteorological Organization, Switzerland, 106–197.

Fiorino, M., and R. L. Elsberry, 1989: Some aspects of vortex structure related to tropical cyclone motion. *J. Atmos. Sci.*, **46**, 975-990, doi: 10.1175/1520-0469(1989)046<0975:SAOVSR>2.0.CO;2.

George, J. E., and W. M. Gray, 1976: Tropical cyclone motion and surrounding parameter relationships. *J. Appl. Meteor.*, **15**, 1252-1264, doi: 10.1175/1520-0450(1976)015<1252:TCMASP>2.0.CO;2.

Huang, Y. H., C. C. Wu, and Y. Wang, 2011: The influence of island topography on typhoon track deflection. *Mon. Wea. Rev.*, **139**, 1708-1727, doi: 10.1175/2011MWR3560.1.

Jian, G. J., and C. C. Wu, 2008: A numerical study of the track deflection of supertyphoon Haitang (2005) prior to its landfall in Taiwan. *Mon. Wea. Rev.*, **136**, 598-615, doi: 10.1175/2007MWR2134.1.

Kuo, H. C., R. T. Williams, J. H. Chen, and Y. L. Chen, 2001: Topographic effects on barotropic vortex motion: No mean flow. *J. Atmos. Sci.*, **58**, 1310-1327, doi: 10.1175/1520-0469(2001)058<1310:TEOBVM>2.0.CO;2.

Landar, M. A., 1995: The merger of two tropical cyclones. *Mon. Wea. Rev.*, **123**, 2260-2265, doi: 10.1175/1520-0493(1995)123<2260:TMOTTC>2.0.CO;2

Lee, J.-D., K. Ito, and J. Chan, 2022: Three-dimensional aspects of the Fujiwhara effect, Quart. *J. Roy. Meteor. Soc.*, in revision.

Lin, Y. L., J. Han, D. W. Hamilton, and C. Y. Huang, 1999: Orographic influence on a drifting cyclone. *J. Atmos. Sci.*, **56**, 534-562, doi: /10.1175/1520-0469(1999)056<0534:OIOADC>2.0.CO;2.

Ngan, K. W., and J. C. L. Chan, 1995: Tropical cyclone motion-steering vs. propagation, *preprints of 21st Conf. on Hurricane and Tropical Meteorology*, Miami, FL, USA, 25.

Riehl, H., 1954: *Tropical Meteorology*. McGrawHill book Company, New York, pp. 392.

Sun, Y., Z. Zhong, and W. Lu, 2015: Sensitivity of tropical cyclone feedback on the intensity of the western Pacific subtropical high to microphysics schemes. *J. Atmos. Sci.*, **72**, 1346-1368, doi: 10.1175/JAS-D-14-0051.1.

Szeto, K. C., and J. C. L. Chan, 2010: Structure and track changes of tropical cyclones during landfall: Beta-plane simulations. *Adv. Atmos. Sci.*, **27**, 1143-1150, doi: 10.1007/s00376-009-9136-x.

Tang, C. K., and J. C. L. Chan, 2014: Idealized simulations of the effect of Taiwan and Philippines topographies on tropical cyclone tracks, *Quart. J. Roy. Meteor. Soc.*, **140**, 1578-1589, doi: 10.1002/qj.2240.

Tang, C. K., and J. C. L. Chan, 2016a: Idealized simulations of the effect of Taiwan topography on the tracks of tropical cyclones with different sizes. *Quart. J. Roy. Meteor. Soc.*, **142**, 793-804, doi: 10.1002/qj.2681.

Tang, C. K., and J. C. L. Chan, 2016b: Idealized simulations of the effect of Taiwan topography on the tracks of tropical cyclones with different steering flow strengths. *Quart. J. Roy. Meteor. Soc.*, **142**, 3211-3221, doi: 10.1002/qj.2902.

Tang, C. K., and M. Yamaguchi, 2020: Effects of the outer size on tropical cyclone track forecasts. *Meteor. Appl.*, **27**, e1888, doi: 10.1002/met.1888.

Velden, C. S., and Leslie L. M., 1991: The basic relationship between tropical cyclone intensity and the depth of the environmental steering layer in the Australian region. *Wea. Forecasting*, **6**, 244-253, doi: 10.1175/1520-0434(1991)006<0244:TBRBTC>2.0.CO;2.

Williams, R. T., and J. C. L. Chan, 1994: Numerical studies of the beta effect in tropical cyclone motion. Part II: Zonal mean flow effects. *J. Atmos. Sci.*, **51**, 1065-1076, doi: 10.1175/1520-0469(1994)051<1065:NSOTBE>2.0.CO;2.

Wong, M. L. M., and J. C. L. Chan, 2006: Tropical cyclone motion in response to land surface friction. *J. Atmos. Sci.*, **63**, 1324-1337.

Wu, L., and B. Wang, 2000: A potential vorticity tendency diagnostic approach for tropical cyclone motion. *Mon. Wea. Rev.*, **128**, 1899-1911, doi: 10.1175/1520-0493(2000)128<1899:APVTDA>2.0.CO;2.

Yeh, T. C., and R. L. Elsberry, 1993: Interaction of typhoons with the Taiwan orography. Part I: Upstream track deflections. *Mon. Wea. Rev.*, **121**, 3193-3212, doi: 10.1175/1520-0469(2001)058<1310:TEOBVM>2.0.CO;2.

Yu, H., G. Chen, C. Zhou, W. K. Wong, M. Yang, Y. Xu, P. Chen, R. Wan, and X. Hu, 2022, Are we reaching the limit of tropical cyclone track predictability in the Western North Pacific?. *Bull. Amer. Meteor. Soc.*, **103**, E410-E428, doi: 10.1175/BAMS-D-20-0308.1.