

REFERENCES

- [1] Solomon, S. (Ed.). (2007). *Climate change 2007-the physical science basis: Working group I contribution to the fourth assessment report of the IPCC* (Vol. 4). Cambridge University Press.
- [2] Field, C. B., Barros, V., Stocker, T. F., Qin, D., Dokken, D. J., Ebi, K. L., ... & Midgley, P. M. (2012). *Managing the risks of extreme events and disasters to advance climate change adaptation*. Cambridge: Cambridge University Press.
- [3] Alexander, L. V., Zhang, X., Peterson, T. C., Caesar, J., Gleason, B., Klein Tank, A. M. G., ... & Vazquez-Aguirre, J. L. (2006). Global observed changes in daily climate extremes of temperature and precipitation. *Journal of Geophysical Research: Atmospheres* (1984–2012), 111(D5).
- [4] Frich, P., Alexander, L. V., Della-Marta, P., Gleason, B., Haylock, M., Klein Tank, A. M., & Peterson, T. (2002). Observed coherent changes in climatic extremes during the second half of the twentieth century. *Climate Research*, 19(3), 193-212.
- [5] Nakicenovic, N., Alcamo, J., Davis, G., de Vries, B., Fenhann, J., Gaffin, S., ... & Dadi, Z. (2000). *Special report on emissions scenarios: a special report of*

Working Group III of the Intergovernmental Panel on Climate Change (No. PNNL-SA-39650). Pacific Northwest National Laboratory, Richland, WA (US), Environmental Molecular Sciences Laboratory (US).

- [6] Orlowsky, B., & Seneviratne, S. I. (2012). Global changes in extreme events: regional and seasonal dimension. *Climatic Change*, 110(3-4), 669-696.
- [7] Giorgi, F., Christensen, J., Hulme, M., Von Storch, H., Whetton, P., Jones, R., ... & Semazzi, F. (2001). Regional climate information-evaluation and projections. *Climate Change 2001: The Scientific Basis. Contribution of Working Group to the Third Assessment Report of the Intergovernmental Panel on Climate Change [Houghton, JT et al.(eds)]. Cambridge University Press, Cambridge, United Kingdom and New York, US.*
- [8] Knutson, T. R., Sirutis, J. J., Garner, S. T., Held, I. M., & Tuleya, R. E. (2007). Simulation of the recent multidecadal increase of Atlantic hurricane activity using an 18-km-grid regional model. *Bulletin of the American Meteorological Society*, 88(10), 1549-1565.
- [9] Harrold, T. I., & Jones, R. N. (2003). Generation of rainfall scenarios using daily patterns of change from GCMs. *International Association of Hydrological Sciences, Publication*, (280), 165-172.

- [10] Collins, W. D., Bitz, C. M., Blackmon, M. L., Bonan, G. B., Bretherton, C. S., Carton, J. A., ... & Smith, R. D. (2006). The community climate system model version 3 (CCSM3). *Journal of Climate*, 19(11), 2122-2143.
- [11] Jiang, X., & Yang, Z. L. (2012). Projected changes of temperature and precipitation in Texas from downscaled global climate models. *Clim Res*, 53, 229-244.
- [12] Haerter, J. O., Hagemann, S., Moseley, C., & Piani, C. (2011). Climate model bias correction and the role of timescales. *Hydrology and Earth System Sciences*, 15(3), 1065-1079.
- [13] Ahmed, K. F., Wang, G., Silander, J., Wilson, A. M., Allen, J. M., Horton, R., & Anyah, R. (2012). Statistical downscaling and bias correction of climate model outputs for climate change impact assessment in the US northeast. *Global and Planetary Change*.
- [14] Dosio, A., & Paruolo, P. (2011). Bias correction of the ENSEMBLES high-resolution climate change projections for use by impact models: Evaluation on the present climate. *Journal of Geophysical Research*, 116(D16), D16106.
- [15] Singhrattna, N., Rajagopalan, B., Kumar, K. K., & Clark, M. (2005). Interannual and interdecadal variability of Thailand summer monsoon season. *Journal of climate*, 18(11), 1697-1708.

- [16] Limjirakan, S., & Limsakul, A. (2012). Observed Trends in Surface Air Temperatures and Their Extremes in Thailand from 1970 to 2009. *Journal of the Meteorological Society of Japan. Ser. II*, 90(5), 647-662.
- [17] Xu, Y., Zhang, Y., Lin, E., Lin, W., Dong, W., Jones, R., ... & Wilson, S. (2006). Analyses on the climate change responses over China under SRES B2 scenario using PRECIS. *Chinese Science Bulletin*, 51(18), 2260-2267.
- [18] Tadross, M. A., Gutowski Jr, W. J., Hewitson, B. C., Jack, C., & New, M. (2006). MM5 simulations of interannual change and the diurnal cycle of southern African regional climate. *Theoretical and applied climatology*, 86(1-4), 63-80.
- [19] Oikonomou, C., Flocas, H. A., Hatzaki, M., Asimakopoulos, D. N., & Giannakopoulos, C. (2008). Future changes in the occurrence of extreme precipitation events in eastern Mediterranean. *Global NEST J*, 10(2), 255-262.
- [20] Jiang, Z., Song, J., Li, L., Chen, W., Wang, Z., & Wang, J. (2012). Extreme climate events in China: IPCC-AR4 model evaluation and projection. *Climatic change*, 110(1-2), 385-401.
- [21] Déqué, M. (2007). Frequency of precipitation and temperature extremes over France in an anthropogenic scenario: model results and statistical correction according to observed values. *Global and Planetary Change*, 57(1), 16-26.

- [22] Harvey, D., et al., 1997: An Introduction to Simple Climate Models Used in the IPCC Second Assessment Report. IPCC Technical Paper 2 [Houghton, J.T., L.G. Meira Filho, D.J. Griggs, and K. Maskell (eds.)]. IPCC, Geneva, Switzerland, p.9-10.
- [23] Barry, R. G. (1980). Synoptic and dynamic climatology. *Progress in Physical Geography*, 4(1), 88-96.
- [24] Pielke, R. A. (2002). *Mesoscale meteorological modeling*. Academic press.
- [25] Hannah, L. (2010). *Climate change biology*. Academic Press. pp.41-42.
- [26] Metz, B. (Ed.). (2007). *Climate Change 2007-Mitigation of Climate Change: Working Group III Contribution to the Fourth Assessment Report of the IPCC*(Vol. 4). Cambridge University Press.
- [27] Parry, M. L. (Ed.). (2007). *Climate Change 2007: Impacts, Adaptation and Vulnerability: Working Group I Contribution to the Fourth Assessment Report of the IPCC* (Vol. 4). Cambridge University Press.
- [28] Jacobson, M. Z. (2005). *Fundamentals of atmospheric modeling*. Cambridge University Press.
- [29] Betts, A. K. (1993). The Betts–Miller scheme. *The Representation of Cumulus Convection in Numerical Models, Meteor. Monogr*, 46, 107-121.

- [30] Pereira Fo, A. J., Crawford, K. C., & Stensrud, D. J. (1999). Mesoscale precipitation fields. Part II: Hydrometeorologic modeling. *Journal of Applied Meteorology*, 38(1), 102-125.
- [31] Alapaty, K., Madala, R. V., & Raman, S. (1994). Numerical simulation of orographic convective rainfall with Kuo and Betts-Miller cumulus parameterization schemes. *J. Meteor. Soc. Japan*, 72, 123-137.
- [32] Kain, J. S. (2004). The Kain-Fritsch convective parameterization: an update. *Journal of Applied Meteorology*, 43(1), 170-181.
- [33] Chidthaisong., A.(eds.). (2010). Thailand Climate Change Information. Thailand Research Fund's Research Development and Coordination Center for Global Warming and Climate Change; TGLOB, The Thailand Research Fund.
- [34] Yuwadee S., "Trends of extremes indices in daily air temperature and rainfall over Thailand", Climatological Center, DIVISION Meteorological Development, Thailand Meteorological Department, TECHNICAL DOCUMENT No.551.524-01-2012, MAY, 2012.
- [35] Lenderink, G., Buishand, A., & Van Deursen, W. (2007). Estimates of future discharges of the river Rhine using two scenario methodologies: direct versus delta approach. *Hydrology and Earth System Sciences Discussions*, 11(3), 1145-1159.

- [36] Wetterhall, F., Pappenberger, F., He, Y., Freer, J., & Cloke, H. L. (2012). Conditioning model output statistics of Regional Climate Model precipitation on circulation patterns. *Nonlinear Processes in Geophysics*, 19, 623-633.
- [37] Lehner, B., Döll, P., Alcamo, J., Henrichs, T., & Kaspar, F. (2006). Estimating the impact of global change on flood and drought risks in Europe: a continental, integrated analysis. *Climatic Change*, 75(3), 273-299.
- [38] Gudmundsson, L., Bremnes, J. B., Haugen, J. E., & Skaugen, T. E. (2012). Technical Note: Downscaling RCM precipitation to the station scale using quantile mapping—a comparison of methods. *Hydrol. Earth Syst. Sci. Discuss*, 9, 6185-6201.
- [39] Sennikovs, J., & Bethers, U. (2009). Statistical downscaling method of regional climate model results for hydrological modelling. In *Proc. 18 th World IMACS/MODSIM Congress, Cairns, Australia*.
- [40] Wood, A. W., Leung, L. R., Sridhar, V., & Lettenmaier, D. P. (2004). Hydrologic implications of dynamical and statistical approaches to downscaling climate model outputs. *Climatic change*, 62(1-3), 189-216.
- [41] Ines, A. V., & Hansen, J. W. (2006). Bias correction of daily GCM rainfall for crop simulation studies. *Agricultural and Forest Meteorology*, 138(1), 44-53.

- [42] Chotamonsak, C., Salathé Jr, E. P., Kreasuwan, J., & Chantara, S. Evaluation of Precipitation Simulations over Thailand using a WRF Regional Climate Model.