

SUGGESTED FURTHER READING

A list of references for further reading of interest to both specialists and non-specialists is given here. The number in bold following the reference indicates the chapter(s) to which the reference is most appropriate.

- Abawi GY, Smith RJ and Brady DK (1995) Assessment of the value of long range weather forecasts in wheat harvest management. *J Agricultural Engineering Res.*, **62**, 39–48. [13]
- AMS (2003) Improving responses to climate predictions, Atmospheric Policy Program Rep., Amer. Meteor. Soc., 34 pp. [2, 11]
- Anderson JL (1996) A method for producing and evaluating probabilistic forecasts from ensemble model integrations. *J. Climate*, **9**, 1518–1530. [10]
- Avery, Olsen, Aber et al. (2003) Policy discussions at the AMS policy forum on improving responses to climate predictions. *Bull. Amer. Meteorol. Soc.*, **84**, 1697–1702 [2, 11]
- Barnett TP, Preisendorfer RW, Goldstein LM and Hasselmann K (1981) Significance tests for regression model hierarchies. *J. Physical Oceanography*, **11**, 1150–1154. [7]
- Barnett TP and Preisendorfer R (1987) Origins and levels of monthly and seasonal forecast skill for United States surface air temperature determined by canonical correlation analysis. *Monthly Weather Review*, **115**, 1825–1850. [7]
- Barnston AG, Mason SJ, Goddard L, DeWitt DG and Zebiak SE (2003) Multi-model ensembling in seasonal climate forecasting at IRI. *Bull. Amer. Meteor. Soc.*, **84**, 1783–1796. [8]
- Bell MJ, Martin MJ and Nichols NK (2004) Assimilation of data into an ocean model with systematic errors near the equator. *Quart. J. Roy. Meteorol. Soc.*, **130**, 873–893. [5]
- Blais AR and Weber EU (2001) Domain-specificity and gender differences in decision making. *Risk Decision and Policy*, **6**, 47–69. [2]
- Bretherton CS, Smith C and Wallace JM (1992) An intercomparison of methods for finding coupled patterns in climate data. *J. Climate*, **5**, 541–560. [8]
- Burton I and Van Aalst M (2004) Look before you leap: A risk management approach for incorporating climate change adaptation in World Bank operations, A World Bank publication. Available at: <http://www-wds.worldbank.org> [11]
- Cash D and Buizer J (2005) *Knowledge–action systems for seasonal to interannual climate forecasting: Summary of a workshop*, report to the Roundtable on Science and Technology for Sustainability, Policy and Global Affairs. The National Academies Press, Washington, D.C. Available at: <http://books.nap.edu/catalog/11204.html> [1, 14]
- Clemen RT (1991) *Making Hard Decisions: An Introduction to Decision Analysis*, PWS-Kent Pub. Co, Boston, 664 pp. [2, 11]
- Clemen RT (1989) Combining forecasts: A review and annotated bibliography. *International J. Forecasting*, **5**, 559–583. [9]
- CLIPS Curriculum web site with lectures on the Science and Applications of Climate Prediction: http://www.wmo.int/pages/prog/wcp/wcasp/clips/modules/clips_modules.html
- D’Andrea FS, Tibaldi S, Blackburn M et al. (1998) Northern Hemisphere atmospheric blocking as simulated by 15 atmospheric general circulation models in the period 1979–1988. *Clim. Dynamics*, **14**, 385–407. [6]

- da Cunha E (1995) *Rebellion in the backlands*, University of Chicago Press. 751 pp. [2]
- David FN (1998) *Games, Gods, and Gambling: A History of Probability and Statistical Ideas*. Dover Publications, 320 pp. [9]
- Davis M (2001) *Late Victorian Holocausts: El Niño, Famines, and the Making of the Third World*, Verso Books, 464 pp. [3]
- DeGroot MH and Schervish MJ (2001) *Probability and Statistics*. Addison W., 816 pp. [9]
- Draper NR and Smith H (1981) *Applied Regression Analysis*. Wiley, 706 pp. [9]
- Elsner JB and Schmertmann CP (1994) Assessing forecast skill through cross validation. *Weather and Forecasting*, **9**, 619–624. [7]
- Fan Y, Van den Dool HM, Lohmann D and Mitchell K (2006) 1948–98 US hydrological reanalysis by the Noah land data assimilation system. *J. Climate*, **19**, 1214–1237. [5]
- Fedderson H, Navarra A and Ward MN (1999) Reduction of model systematic error by statistical correction for dynamical seasonal predictions. *J. Climate*, **12**, 1974–1989. [8]
- Finan T (1999) Drought and demagoguery: a political ecology of climate variability in Northeast Brazil. Bureau of Applied Research in Anthropology. Paper from workshop on: ‘Public Philosophy, Environment, and Social Justice’. Carnegie Council on Ethics and International Affairs, Merrill House, New York, NY. [2, 14]
- Folland CK, Owen JA, Ward MN and Colman AW (1991) Prediction of seasonal rainfall in the Sahel region of Africa using empirical and dynamic methods. *J. Forecasting*, **10**, 21–56. [7]
- Glantz MH (ed) (2001) *Once Burned, Twice Shy? Lessons learned from the 1997–98 El Niño*, United Nations University, 294 pp. [1, 2]
- Glantz MH (ed) (2005) Usable science: El Niño early warning for sustainable development in Pacific Rim countries and islands. Report of workshop held 13–16 September 2004. ISSE/NCAR, Boulder, CO. [13]
- Gordon G and Pressman I (1978) *Quantitative Decision-Making for Business*, Prentice-Hall, London, 546 pp. [2, 11]
- Graham RJ, Evans ADL, Mylne KR, Harrison MSJ and Robertson KB (2000) An assessment of seasonal predictability using atmospheric general circulation models. *Quart. J. Roy. Meteorol. Soc.*, **126**, 2211–2240. [8]
- Greenfield RS and Fisher GM (2003) Improving responses to climate predictions - An introduction. *Bull. Amer. Meteorol. Soc.*, **84**, 1685–1685. [2, 11]
- Grimmett GR and Stirzaker DR (1992) *Probability and Random Processes*. Clarendon Press, 608 pp. [9]
- Hall N (ed) (1991) *The New Scientist Guide to Chaos*. Penguin, 223 pp. [2]
- Hammer GL, Nicholls N and Mitchell C (eds) (2000) *Applications of Seasonal Climate Forecasting in Agriculture and Natural Ecosystems: The Australian Experience*, Kluwer Academic Publishers, Dordrecht, The Netherlands, 469 pp. [2, 12]
- Hammer GL, Holzworth DP and Stone RC (1996) The value of skill in seasonal climate forecasting to wheat crop management in a region with high climatic variability. *Australian J. Agricultural Research*, **47**, 717–737. [13]
- Hansen JW and Sivakumar MVK (2006) Advances in applying climate prediction to agriculture. *Climate Research*, **33**, 1–2. [12]
- Harrison MSJ (2005) The development of seasonal and interannual climate forecasting. *Climatic Change*, **70**, 201–220. [7]
- Hellmuth M.E, Moorhead A, Thomson M.C and Williams J. (eds) (2007) *Climate Risk Management in Africa: Learning from Practice*, International Research Institute for Climate and Society (IRI), Columbia University, New York, USA. [2]
- Horel JD (1984) Complex principal component analysis: theory and examples. *J. Climate and Applied Meteorology*, **23**, 1660–1673. [7]

- Hosmer DW and Lemeshow S (1989) *Applied Logistic Regression*, Wiley, 307 pp. [7]
- Huberty CJ (1994) *Applied Discriminant Analysis*, Wiley, 466 pp. [7]
- IFRCRCS (2001) World Disasters Report. International Federation of Red Cross and Red Crescent Societies, London, Eurospan. [1, 14]
- IRI (2006) A gap analysis for the implementation of the global climate observing systems programme in Africa. IRI Technical Report No IRI-TR/06/01, 47pp. Available at: <http://iri.columbia.edu/outreach/publication/report/06-01/report06-01.pdf> [2]
- Jacobs K (2003) *Connecting Science, Policy, and Decision-Making: A Handbook for Researchers and Science Agencies*. NOAA Office of Global Programs/University Corporation for Atmospheric Research. Available at: <http://www.ogp.noaa.gov/mpe/csi/doc/hdbk.pdf> [14]
- Jagger TH, Niu XF and Elsner JB (2002) A space-time model for seasonal hurricane prediction. *International J. Climatology*, **22**, 451–465. [7]
- Katz RW and Brown BG (1991) The problem of multiplicity in research on teleconnections. *International J. Climatology*, **11**, 505–513. [7]
- Keating BA, Godwin DC and Watiki JM (1991) Optimising nitrogen inputs in response to climate risk. In: Muchow RC and Bellamy JA (eds) *Climate Risk in Crop Production Models and Management for the Semiarid Tropics and Subtropics*. CAB International, Wallingford, UK, pp 329–358. [13]
- Kharin VV, Zwiers FW and Gagnon N (2001) Skill of seasonal hindcasts as a function of the ensemble size. *Climate Dyn.*, **17**, 835–843. [8]
- Kim K-Y and North GR (1999) EOF-based linear prediction algorithm: Examples. *J. Climate*, **12**, 2076–2092. [7]
- Kim K-Y and Wu Q (1999) A comparison study of EOF techniques: analysis of nonstationary data with periodic statistics. *J. Climate*, **12**, 185–199. [7]
- Kirtman BP, Fan Y and Schneider EK (2002) The COLA global coupled and anomaly coupled ocean-atmosphere GCM. *J. Climate*, **15**, 2301–2320. [8]
- Krishnamurti TN, Kishtawal CM, Zhang Z et al. (2000) Multimodel ensemble forecasts for weather and seasonal climate. *J. Climate*, **13**, 4196–4216. [8]
- Kumar A and Hoerling MP (1995) Prospects and limitations of seasonal atmospheric GCM predictions. *Bull. Amer. Meteor. Soc.*, **76**, 335–345. [8]
- Kumar, A, AG. Barnston, and MP. Hoerling (2001) Seasonal predictions, probabilistic verifications, and ensemble size. *J. Climate*, **14**, 1671–1676. [8]
- Large WG and Gent PR (1999) Validation of vertical mixing in a equatorial ocean model using large eddy simulations and observations. *J. Physical Oceanography*, **29**, 449–464. [6]
- Latif M, Sperber K, Arblaster J et al. (2001) ENSIP: the El Niño simulation intercomparison project. *Climate Dynamics*, **18**, 255–276. [3]
- Lee PM (2004) *Bayesian Statistics: An Introduction*. Hodder Arnold Publication, 368 pp. [9]
- Lien R-C, Caldwell DR, Gregg MC and Moum JN (1995) Turbulence variability at the equator in the central Pacific at the beginning of the 1991-1993 El Niño. *J. Geophysical Research - Oceans*, **100**, 6881–6898. [6]
- Livezey RE and Smith TM (1999) Considerations for use of the Barnett and Preisendorfer (1987) algorithm for canonical correlation analysis of climate variations. *J. Climate*, **12**, 303–305. [7]
- Livezey RE and Chen WY (1983) Statistical field significance and its determination by Monte Carlo techniques. *Monthly Weather Review*, **111**, 46–59. [7]
- Manly BFJ (1994) *Multivariate Statistical Methods: A Primer*. Chapman-Hall, 215 pp. [7]
- Mason SJ, Goddard L, Graham NE et al. (1999) The IRI seasonal climate prediction system and the 1997/1998 El Niño event. *Bull. Amer. Meteor. Soc.*, **80**, 1853–1873. [8]

- Matheson JE (1990) Using influence diagrams to value information and control. In: Oliver R and Smith JQ (eds) *Influence Diagrams, Belief Nets and Decision Analysis*. Wiley. [2]
- McCown RL, Wafra BM, Mohammed L, Ryan JG and Hargreaves JNG (1991) Assessing the value of seasonal rainfall predictors to agronomic decisions: The case of response farming in Kenya. In: Muchow RC and Bellamy JA (eds) *Climate Risk in Crop Production Models and Management for the Semiarid Tropics and Subtropics*. CAB International, Wallingford, UK, pp 383–410. [13]
- McCreary JP (1985) Modeling equatorial ocean circulation. *Annual Reviews of Fluid Mechs.*, **17**, 359–409. [3, 4]
- McCullagh P and Nelder JA (1989) *Generalized Linear Models*, Chapman and Hall, 511 pp. [7]
- McDonnell KA and Holbrook NJ (2004) A Poisson regression model of tropical cyclogenesis for the Australian–Southwest Pacific ocean region. *Weather and Forecasting*, **19**, 440–455. [7]
- Mielke PW, Berry KJ, Landsea CW and Gray WM (1996) Artificial skill and validation in meteorological forecasting. *Weather and Forecasting*, **11**, 153–169. [7]
- Mo KC and Wang XL (1995) Sensitivity of the systematic-error of extended-range forecasts to sea surface temperature anomalies. *J. Climate*, **8**, 1533–1543. [8]
- Montgomery DC and Peck EA (1992) *Introduction to Linear Regression Analysis*, Wiley, 527 pp. [7]
- Moum JN, Hebert D, Paulson CA and Caldwell DR (1992) Turbulence and internal waves at the equator. Part I: Statistics from towed thermistor and a microstructure profiler. *J. Physical Oceanography*, **22**, 1330–1345. [6]
- Ni-Meister W, Houser PR and Walker JP (2006) Soil moisture initialization for climate prediction: Assimilation of scanning multifrequency microwave radiometer soil moisture data into a land surface model. *J. Geophysical Research - Atmospheres*, **111**, D20. [5]
- O'Brien K and Vogel C (eds) (2003) *Coping with Climate Variability: The Use of Seasonal Climate Forecasts in Southern Africa*, K. Ashgate Studies in Environmental Policy and Practice. [12]
- Oliver RM and Smith JQ (eds) (1990) *Influence Diagrams, Belief Nets and Decision Analysis*. Proceedings of the Conference entitled 'Influence Diagrams for Decision Analysis, Inference and Prediction', held at the Engineering Systems Research Center, University of California at Berkeley, USA, 9–11 May 1988, Wiley, 465 pp. [2]
- Ostrom E, Dietz T, Dolsak N et al. (eds) (2002) *The Drama of the Commons*. Washington, D. C.: National Academy Press. [11]
- Penland C (1989) Random forcing and forecasting using principal oscillation pattern analysis. *Monthly Weather Review*, **117**, 2165–2185. [7]
- Penland C and Magorian T (1993) Prediction of Niño3 sea surface temperatures using linear inverse modeling. *J. Climate*, **6**, 1067–1076. [7]
- Reichle RH, Koster RD, Dong JR and Berg AA (2004) Global soil moisture from satellite observations, land surface models, and ground data: Implications for data assimilation. *J. Hydrometeorology*, **5**, 430–442. [5]
- Rice JA (2006) *Mathematical Statistics and Data Analysis*. Duxbury Press, 672 pp. [9]
- Rutherford S, Mann ME, Delworth TL and Stouffer RJ (2003) Climate field reconstruction under stationary and nonstationary forcing. *J. Climate*, **16**, 462–479. [7]
- Saha S, Nadiga S, Thiaw C et al. (2006) The NCEP Climate Forecast System. *J. Climate*, **19**, 3483–3517. [8]
- Salinger MJ, Sivakumar MVK and Motha RP (2005) Reducing the vulnerability of agriculture and forestry to climate variability and change: Workshop summary and recommendations. *Climatic Change*, **70**, 341–362. [12]

- Sarewitz D, Pielke Jr RA and Byerly Jr R (eds) (2000) *Prediction. Science, Decision Making and the Future of Nature*. Island Press, 400 pp. [2, 14]
- Schneider EK, DeWitt D, Rosati A et al. (2003) Retrospective ENSO forecasts: sensitivity to atmospheric model and ocean resolution. *Monthly Weather Review*, **131**, 3038–3060. [5]
- Schneider T (2001) Analysis of incomplete climate data: Estimation of mean values and covariance matrices and imputation of missing values. *J. Climate*, **14**, 853–871. [7]
- Silbiger SA (2005) *The Ten-Day MBA*, 3rd edn. HarperCollins, 420 pp. [2]
- Sivakumar MVK, Motha RP, and Das HP (eds) (2005) *Natural Disasters and Extreme Events in Agriculture: Impacts and Mitigation*. Proceeding from a CAgM Expert Team Meeting, 16-20 February 2004, Beijing, China. Springer-Verlag, 367 pp. [12]
- Skyllingstad ED, Smith WD, Moun JN and Wijesekera H (1999) Upper-ocean turbulence during a westerly wind burst: A comparison of large-eddy simulation results and micro-structure measurements. *J. Physical Oceanography*, **29**, 5–28. [6]
- Stone RC, Hammer GL and Marcussen T (1996) Prediction of global rainfall probabilities using phases of the Southern Oscillation Index. *Nature*, **384**, 252–255. [7]
- Swinbank R, Shutyaev V and Lahoz WA (eds) (2003) *Data Assimilation for the Earth System*. NATO Science Series, Kluwer Academic Publishers, 377 pp. [5]
- Tang BY, Hsieh WW, Monahan AH and Tangang FT (2000) Skill comparisons between neural networks and canonical correlation analysis in predicting the equatorial Pacific sea surface temperatures. *J. Climate*, **13**, 287–293. [7]
- Tangang FT, Tang BY, Monahan AH and Hsieh WW (1998) Forecasting ENSO events: A neural network extended EOF approach. *J. Climate*, **11**, 29–41. [7]
- Tarhule A and Lamb PJ (2003) Climate research and seasonal forecasting for West Africans: perceptions, dissemination, and use? *Bull. Amer. Meteor. Soc.*, **84**, 1741–1759. [2, 14]
- Thompson PD (1961) A dynamical method of analyzing meteorological data. *Tellus*, **13**, 334–349. [5]
- Timmermann A and Jin F-F (2006) Predictability of coupled processes. In: Palmer TN and Hagedorn R (eds) *Predictability of Weather and Climate*. Cambridge Univ. Press, pp. 251–274. [3]
- Trenberth K.E. (1997) Short-term climate variations: Recent accomplishment and issues for future progress. *Bull. Amer. Meteor. Soc.*, **78**, 1081–1096. [3]
- van den Dool HM (1994) Searching for analogs, how long must we wait? *Tellus*, **46A**, 314–324. [7]
- Various authors (2006) Advances in applying climate prediction to agriculture. *Climate Research*, **33**(1), Special Issue 16. [12]
- Vitart F (2006) Seasonal forecasting of tropical storm frequency using a multi-model ensemble. *Quart. J. Roy. Meteorol. Soc.*, **132**, 647–666. [3]
- von Storch H, Bürger G, Schnur R and von Storch J-S (1995) Principal oscillation patterns: A review. *J. Climate*, **8**, 377–400. [7]
- Wang G, Alves O, Zhong A et al. (2004) POAMA an Australian ocean-atmosphere model for climate prediction, American Meteorological Society Symposium on Global Change and Climate Variations, Vol. 15. [5]
- Weare BC and Nasstrom JS (1982) Examples of extended empirical orthogonal function analysis. *Monthly Weather Review*, **110**, 481–485. [7]
- Weber EU, Baron J and Loomes G (eds) (2000) *Conflict and Tradeoffs in Decision Making*. Cambridge University Press, 347 pp. [2, 11]
- Vargish T and Mook DE (1999) *Inside Modernism: Relativity Theory, Cubism, Narrative*. Yale University Press, 185 pp. [2]

- Wheeler M and Kiladis GN (1999) Convectively coupled equatorial waves: analysis of clouds and temperature in the wavenumber-frequency domain. *J. Atmos. Sci.*, **56**, 374–399. [6]
- WHO (2003a) Climate change and human health: Risks and responses. Geneva, World Health Organization (ISBN 92 4 156248 X, <http://www.who.int/globalchange/publications/cchhsummary/en/>). [13]
- WHO (2003b) Methods of assessing human health vulnerability and public health adaptation to climate change. WHO Regional Office for Europe (ISBN 92 890 1090 8). [13]
- WHO (2004) Public health responses to extreme weather and climate events, in Fourth Ministerial Conference on Environment and Health 2004: “The future for our children”, WHO Regional Office for Europe, 2004 (EUR/04/5046269/15) [13]
- WHO-UNICEF (2005) *World Malaria Report*. Roll Back Malaria. 294 pp. <http://www.rbm.who.int/wmr2005/index.html> [13]
- WMO (2004) WMO statement on the status of the global climate in 2003. World Meteorological Organization, Geneva (WMO No. 966). [13]
- Wright G and Goodwin P (eds) (1998) *Forecasting with Judgement*. Wiley, 297 pp. [2]
- Xie PP and Arkin PA (1998) Global monthly precipitation estimates from satellite-observed outgoing longwave radiation. *J. Climate*, **11**, 137–164. [3, 6]
- Xu J-S and von Storch H (1990) Predicting the state of the Southern Oscillation using principal oscillation pattern analysis. *J. Climate*, **3**, 1316–1329. [7]
- Yu Z-P, Chu P-S, and Schroeder T (1997) Predictive skills of seasonal to annual rainfall variations in the US Affiliated Pacific Islands: Canonical correlation analysis and multivariate principal component regression approaches. *J. Climate*, **10**, 2586–2599. [7]
- Zhou YH, McLaughlin D and Entekhabi D (2006) Assessing the performance of the ensemble Kalman filter for land surface data assimilation. *Monthly Weather Review*, **134**, 2128–2142. [5]