

BIBLIOGRAPHY

- Albert J (2009) Bayesian Computation with R, 2nd edn. Springer, ISBN 978-0-387-71384-7
- Albert J (2011) LearnBayes: Functions for Learning Bayesian Inference. URL <http://CRAN.R-project.org/package=LearnBayes>, r package version 2.12
- Anselin L, Syabri I, Kho Y (2006) Geoda: An introduction to spatial data analysis. *Geographical Analysis* 38(1):5–22
- Baddeley A, Turner R (2005) Spatstat: An R package for analyzing spatial point patterns. *Journal of Statistical Software* 12(6):1–42
- Baddeley AJ, Moller J, Waagepetersen R (2000) Non- and semi-parametric estimation of interaction in inhomogeneous point patterns. *Statistica Neerlandica* 54(3):329–350
- Barrodale I, Roberts FDK (1974) Solution of an overdetermined system of equations in the l1 norm [f4] (algorithm 478). *Communications of the ACM* 17(6):319–320
- Besag J, York J, Mollie A (1991) Bayesian image restoration, with two applications in spatial statistics. *Annals of the Institute of Statistical Mathematics* 43(1):1–59, DOI 10.1007/BF00116466
- de Beurs KM, Henebry GM (2008) Northern annular mode effects on the land surface phenologies of northern Eurasia. *Journal of Climate* 21(17):4257–4279, DOI 10.1175/2008JCLI2074.1
- Bivand R, Pebesma E, Gomez-Rubio V (2008) Applied Spatial Data Analysis with R. Springer, New York, NY
- Bivand R, contributions by Micah Altman, Anselin L, Assunção R, Berke O, Bernat A, Blanchet G, Blankmeyer E, Carvalho M, Christensen B, Chun Y, Dormann C, Dray S, Halbersma R, Krainski E, Legendre P, Lewin-Koh N, Li H, Ma J, Millo G, Mueller W, Ono H, Peres-Neto P, Piras G, Reder M, Tiefelsdorf M, Yu D (2011a) spdep: Spatial Dependence: Weighting Schemes, Statistics and Models. URL <http://CRAN.R-project.org/package=spdep>, r package version 0.5-40
- Bivand R, Yu D, contributions by Tomoki Nakaya, tricube function based on a contribution by Miquel-Angel Garcia-Lopez (2011b) spgwr: Geographically Weighted Regression. URL <http://CRAN.R-project.org/package=spgwr>, r package version 0.6-10
- Breiman L (2001) Random forests. *Machine Learning* 45:5–32
- Brewer CA, Hatchard GW, Harrower MA (2003) ColorBrewer in print: A catalog of color schemes for maps. *Cartography and Geographic Information Science* 30(1):5–32
- Brunsdon C, Fotheringham S, Charlton M (1998) Geographically weighted regression - modelling spatial non-stationarity. *Journal of the Royal Statistical Society Series D-The Statistician* 47(Part 3):431–443
- Butts CT (2010) sna: Tools for Social Network Analysis. URL <http://CRAN.R-project.org/package=sna>, r package version 2.2-0
- Butts CT, Handcock MS, Hunter DR (2011) network: Classes for Relational Data. Irvine, CA, URL <http://statnet.org/>, r package version 1.7

- Chambers JM, Cleveland WS, Kleiner B, Tukey PA (1983) Graphical Methods for Data Analysis. Chapman and Hall, New York, NY
- Cleveland WS (1985) The Elements of Graphing Data. Wadsworth, Monterey, CA
- Coles S (2001) An Introduction to Statistical Modeling of Extreme Values. Springer-Verlag, London, UK
- Coles S, Stephenson A (2011) ismev: An Introduction to Statistical Modeling of Extreme Values. URL <http://CRAN.R-project.org/package=isme>, r package version 1.36
- Cressie N (1993) Statistics for Spatial Data. John Wiley and Sons, New York, NY
- Cressie N, Wikle C (2011) Statistics for Spatio-Temporal Data. Wiley Series in Probability and Statistics, John Wiley & Sons, New York, NY
- Csardi G, Nepusz T (2006) The igraph software package for complex network research. *InterJournal Complex Systems*:1695, URL <http://igraph.sf.net>
- Dalgaard P (2002) Introductory Statistics with R. Springer, New York, URL <http://www.biostat.ku.dk/~pd/ISwR.html>, ISBN 0-387-95475-9
- Deser C, Phillips AS, Alexander MA (2010) Twentieth century tropical sea surface temperature trends revisited. *Geophysical Research Letters* 37:L10,701, DOI 10.1029/2010GL043321
- Diggle P (2003) Statistical analysis of spatial point patterns. A Hodder Arnold Publication, Arnold, URL <http://books.google.com/books?id=fnFhQgAACAAJ>
- Efron B, Tibshirani R (1986) Bootstrap methods for standard errors, confidence intervals, and other measures of statistical accuracy. *Statistical Science* 1(1):54–75
- Eilers PHC, Marx BD (1996) Flexible smoothing with b-splines and penalties. *Statistical Sciences* 11(2):89–121, DOI 10.1214/ss/1038425555
- Elsner JB, Bossak BH (2001) Bayesian analysis of hurricane climate. *Journal of Climate* 14(23):4341–4350
- Elsner JB, Jagger TH, Hodies RE (2010) Daily tropical cyclone intensity response to solar ultraviolet radiation. *Geophysical Research Letters* 37:L09,701, DOI 10.1029/2010GL043091
- Elsner JB, Kocher B (2000) Global tropical cyclone activity: Link to the atlantic oscillation. *Geophysical Research Letters* 27(1):129–132
- Elsner JB, Kara AB (1999) Hurricanes of the North Atlantic: Climate and Society. Oxford University Press, NY.
- Elsner Jagger TH, Dickinson M, Rowe D (2008a) Improving multiseason forecasts of atlantic hurricane activity. *Journal of Climate* 21(6):1209–1219, DOI 10.1175/2007JCLI1731.1
- Elsner JB, Kossin JP, Jagger TH (2008b) The increasing intensity of the strongest tropical cyclones. *Nature* 455(7209):92–95, DOI 10.1038/nature07234
- Elsner JB, Jagger TH, Fogarty EA (2009) Visibility network of united states hurricanes. *Geophysical Research Letters* 36:L16,702, DOI 10.1029/2009GL039129
- Elsner JB, Jagger TH (2006) Prediction models for annual hurricane counts. *Journal of Climate* 19(12):2935–2952
- Elsner JB, Jagger TH (2008) United and caribbean tropical cyclone activity related to the solar cycle. *Geophysical Research Letters* 35(18):L18,705, DOI 10.1029/2008GL034431
- Elsner JB, Lehmiller GS, Kimberlain TB (1996) Objective classification of atlantic hurricanes. *Journal of Climate* 9(11):2880–2889

- Elsner JB, Lewers SW, Malmstadt JC, Jagger TH (2011) Estimating contemporary and future wind-damage losses from hurricanes affecting eg. air force base, florida. *Journal of Applied Meteorology and Climatology* 50(7):1514–1526, DOI 10.1175/2011JAMC2658.1
- Elsner JB, Hodges RE, Jagger TH (2012) Spatial grids for hurricane climate research. *Climate Dynamics* 39:21–36.
- Emanuel KA (1988) The maximum intensity of hurricanes. *Journal of the Atmospheric Sciences* 45(7):1143–1155
- Embrechts P, Klüppelberg C, Mikosch T (1997) *Modelling Extremal Events for Insurance and Finance*. Springer-Verlag, Berlin.
- Enfield DB, Mestas-Nunez AM, Trimble PJ (2001) The atlantic multidecadal oscillation and its relation to rainfall and river flows in the continental us. *Geophysical Research Letters* 28(10):2077–2080
- Epstein ES (1985) Meteorological monographs. No. v. 20, no. 42 in Meteorological Monographs, American Meteorological Society, URL <http://books.google.com/books?id=P9oWAQAAQAAJ>
- Fotheringham AS, Brunsdon C, Charlton M (2000) *Quantitative Geography: Perspectives on Spatial Data Analysis*. Sage Publications, London.
- Friedman JH (1991) Multivariate adaptive regression splines. *The Annals of Statistics* 19(1):1–67, URL <http://dx.doi.org/10.2307/2241837>
- Gelman A, Rubin DB (1992) Inference from iterative simulation using multiple sequences. *Statistical Science* 7(4):457–472, DOI 10.2307/2246093, URL <http://dx.doi.org/10.2307/2246093>
- Gower JC (1971) A general coefficient of similarity and some of its properties. *Biometrics* 27:857–874
- Grolemund G, Wickham H (2011) Dates and times made easy with lubridate. *Journal of Statistical Software* 40(3):1–25, URL <http://www.jstatsoft.org/v40/i03/>
- Hartigan JA, Wong MA (1979) A k-means clustering algorithm. *Applied Statistics* 28:100–108
- Heckert N, Simiu E, Whalen T (1998) Estimates of hurricane wind speeds by ‘peaks over threshold’ method. *Journal of Structural Engineering ASCE* 124:445–449
- Hodges RE, Elsner JB, Jagger TH (2012) Predictive models for time-to-acceptance: An example using ‘hurricane’ articles in AMS journals. *Bulletin of the American Meteorological Society* 93:879–882.
- Hoeting JA, Madigan D, Raftery AE, Volinsky CT (1999) Bayesian model averaging: A tutorial. *Statistical Science* 15(3):193–195
- Jackman S (2009) *Bayesian Analysis for the Social Sciences*. Probability and Statistics, Wiley, URL <http://books.google.com/books?id=QFqj...8yEkC>
- Jagger TH, Elsner JB, Saunders MA (2008) Forecasting uninsured hurricane losses. In: Murnane RJ, Diaz HF (eds) *Climate Extremes and Society*, Cambridge University Press, Cambridge, UK, chap 10
- Jagger TH, Elsner JB (2006) Climatology models for extreme hurricane winds near the United States. *Journal of Climate* 19(13):3220–3236
- Jagger TH, Elsner JB (2010) A conceptual model for seasonal hurricane prediction. *Journal of Climate* 23(22):6090–6099, DOI 10.1175/2010JCLI3686.1
- Jagger TH, Elsner JB, Niu XF (2001) A dynamic probability model of hurricane winds in coastal counties of the United States. *Journal of Applied Meteorology* 40:853–863

- Jagger TH, Elsner JB, Burch R (2011) Climate and solar signals in property damage losses from hurricanes affecting the United States. *Natural Hazards* 58(1):541–557, DOI 10.1007/s11069-010-9685-4
- Jagger TH, Elsner JB (2012) Hurricane clusters in the vicinity of Florida. *Journal of Applied Meteorology and Climatology* xx, 
- Jagger TH, Niu XF, Elsner JB (2002) A space-time model for seasonal hurricane prediction. *International Journal of Climatology* 22(4):451–465
- Jarrell J, Hebert P, Mayfield M (1992) Hurricane experience levels of coastal county populations from tennessee to maine. Technical Memo. 46, NOAA NWS NHC
- Jarvinen BR, Neumann CJ, Davis MAS (1984) A tropical cyclone data tape for the North Atlantic basin, 1886–1983: Contents, limitations, and uses. Technical Memo. 22, NOAA NWS NHC
- Jones PD, Jonsson T, Wheeler D (1997) Extension to the North Atlantic Oscillation using early instrumental pressure observations from Gibraltar and south-west Iceland. *International Journal of Climatology* 17(13):1433–1450
- Kahle D, Wickham H (2012) ggmap: A package for spatial visualization with Google Maps and OpenStreetMap. URL <http://CRAN.R-project.org/package=ggmap>, r package version 1.2
- Kamada T, Kawai S (1989) An algorithm for drawing general undirected graphs. *Information Processing Letters* 31(1):7–15
- Kaplan A, Cane M, Kushnir Y, Clement A, Blumenthal M, Rajagopalan B (1998) Analyses of global sea surface temperature 1856–1991. *Journal of Geophysical Research* 103:18,567–18,589
- Keitt T (2009) colorRamps: Builds color tables. URL <http://CRAN.R-project.org/package=colorRamps>, r package version 2.3
- Keitt TH, Bivand R, Pebesma E, Rowlingson B (2012) rgdal: Bindings for the Geospatial Data Abstraction Library. URL <http://CRAN.R-project.org/package=rgdal>, r package version 0.7-8
- Kelley D (2011) oce: Analysis of Oceanographic data. URL <http://CRAN.R-project.org/package=oce>, r package version 0.8-4
- Kimberlain TB, Elsner JB (1998) The 1995 and 1996 North Atlantic hurricane seasons: A return of the tropical-only hurricane. *Journal of Climate* 11(8):2062–2069
- Knuth DE (1992) Literate Programming. Stanford, California: Center for the Study of Language and Information, URL <http://www-cs-faculty.stanford.edu/~knuth/lp.html>
- Kodera K (2002) Solar cycle modulation of the North Atlantic Oscillation: Implication in the spatial structure of the NAO. *Geophysical Research Letters* 29(8):1218, DOI 10.1029/2001GL014557
- Koenker R (2005) Quantile Regression. No. 9780521608275 in Cambridge Books, Cambridge University Press, Cambridge URL <http://ideas.repec.org/b/cup/cbooks/9780521608275.html>
- Koenker RW, d’Orey V (1987) Computing regression quantiles. *Applied Statistics* 36:383–393
- Lacasa L, Luque B, Ballesteros F, Luque J, Nuno JC (2008) From time series to complex networks: The visibility graph. *Proceedings of the National Academy of Sciences of the United States of America* 105(13):4972–4975, DOI 10.1073/pnas.0709247105

- Leisch F (2003) Sweave and beyond: Computations on text documents. In: Hornik K, Leisch F, Zeileis A (eds) Proceedings of the 3rd International Workshop on Distributed Statistical Computing, Vienna, Austria, URL <http://www.R-project.org/conferences/DSC-2003/Proceedings/>, ISSN 1609-395X
- Lunn DJ, Thomas A, Best N, Spiegelhalter D (2000) WinBUGS - A Bayesian modelling framework: Concepts, structure, and extensibility. *Statistics and Computing* 10(4): 325–337
- Madigan D, Raftery AE (1994) Model selection and accounting for model uncertainty in graphical models using Occams window. *Journal of the American Statistical Association* 89(428):1535–1546
- Matheron G (1963) Principles of geostatistics. *Economic Geology* 58(8):1246–1266
- Mei W, Pasquero C, Primeau F (2012) The effect of translation speed upon the intensity of tropical cyclones over the tropical ocean. *Geophysical Research Letters* 39, L07801, doi: 10.1029/2011GL050765
- Milborrow S (2011a) earth: Multivariate Adaptive Regression Spline Models. URL <http://CRAN.R-project.org/package=earth>, r package version 3.2-1
- Milborrow S (2011b) plotmo: Plot a model's response while varying the values of the predictors. URL <http://CRAN.R-project.org/package=plotmo>, r package version 1.3-1
- Moran PAP (1950) Notes on continuous stochastic phenomena. *Biometrika* 37:17–33
- Mousavi ME, Irish JL, Frey AE, Olivera F, Edge BL (2011) Global warming and hurricanes: The potential impact of hurricane intensification and sea level rise on coastal flooding. *Climatic Change* 104:575–597, DOI 10.1007/s10584-009-9790-0
- Murnane RJ, Elsner JB (2012) Maximum Wind Speeds and US Hurricane Losses. *Geophysical Research Letters*, in press.
- Murrell P (2006) R Graphics. Chapman & Hall/CRC, Boca Raton, FL, ISBN 1-584-88486-X
- Neuwirth E (2011) RColorBrewer: ColorBrewer palettes. URL <http://CRAN.R-project.org/package=RColorBrewer>, r package version 1.0-5
- Newman M (2010) Networks: An Introduction. Oxford University Press
- Ogi M, Yamazaki K, Tachibana Y (2003) Solar cycle modulation of the seasonal linkage of the North Atlantic Oscillation (NAO). *Geophysical Research Letters* 30(22):2170, DOI 10.1029/2003GL018545
- Pebesma EJ (2004) Multivariable geostatistics in S: the gstat package. *Computers & Geosciences* 30:683–691
- Pielke RA, Gratz J, Landsea CW, Collins D, Saunders MA, Musulin R (2008) Normalized Hurricane Damage in the United States: 1900-2005. *Natural Hazards Review* 9(1):29–42
- Pierce D (2011) ncdf: Interface to Unidata netCDF data files. URL <http://CRAN.R-project.org/package=ncdf>, r package version 1.6.6
- Plummer M (2011) rjags: Bayesian graphical models using MCMC. URL <http://CRAN.R-project.org/package=rjags>, r package version 2.2.0-4
- Plummer M, Best N, Cowles K, Vines K (2010) coda: Output analysis and diagnostics for MCMC. URL <http://CRAN.R-project.org/package=coda>, r package version 0.14-2
- Portnoy S, Koenker R (1997) The Gaussian Hare and the Laplacian Tortoise: Computability of squared-error versus absolute-error estimators, with discussion. *Statistical Science* 12: 279–300

- Raftery AE (1996) Approximate Bayes factors and accounting for model uncertainty in generalised linear models. *Biometrika* 83(2):251–266
- Raftery AE, Hoeting J, Volinsky C, Painter I, Yeung KY (2009) BMA: Bayesian Model Averaging. URL <http://CRAN.R-project.org/package=BMA>, r package version 3.12
- Raftery AE, Zheng YY (2003) Discussion: Performance of Bayesian model averaging. *Journal of the American Statistical Association* 98(464):931–938
- Rigby RA, Stasinopoulos DM (2005) Generalized additive models for location, scale and shape, (with discussion). *Applied Statistics* 54:507–554
- Raftery AE, Gneiting T, Balabdaoui F, Polakowski M (2005) Using Bayesian model averaging to calibrate forecast ensembles. *Monthly Weather Review* 133(5):1155–1174
- Ripley BD (1981) Spatial Statistics. Wiley, New York, NY
- Ripley BD (1991) Statistical Inference for Spatial Processes. Cambridge University Press, Cambridge
- Ripley BD (2011) tree: Classification and regression trees. URL <http://CRAN.R-project.org/package=tree>, r package version 1.0-29
- Rupp J, Lander M (1996) A technique for estimating recurrence intervals of tropical cyclone-related high winds in the tropics: Results for Guam. *Journal of Applied Meteorology* 35(5):627–637
- Sarkar D (2008) Lattice: Multivariate Data Visualization with R. Springer, New York, URL <http://lmdvr.r-forge.r-project.org>, ISBN 978-0-387-75968-5
- Savitzky A, Golay MJE (1964) Smoothing and differentiation of data by simplified least squares procedures. *Analytical Chemistry* 36(8):1627–1639.
- Scheitlin KN, Elsner JB, Malmstadt JC, Hodges RE, Jagger TH (2010) Toward increased utilization of historical hurricane chronologies. *Journal of Geophysical Research-Atmospheres* 115:D03,108, DOI 10.1029/2009JD012424
- Schlather M (2011) RandomFields: Simulation and Analysis of Random Fields. URL <http://CRAN.R-project.org/package=RandomFields>, r package version 2.0.53
- Spector P (2008) Data Manipulation with R. Springer, New York, NY, ISBN 978-0-387-74730-9
- Stasinopoulos DM, Rigby RA (2007) Generalized Additive Models for Location Scale and Shape (GAMLSS) in R. *Journal of Statistical Software* 23(7):1–46
- Teator P (2011) R Cookbook. O'Reilly Cookbooks, O'Reilly Media Berlin
- Therneau T (2012) A Package for Survival Analysis in S. R package version 2, 36–14.
- Tibshirani R, Leisch F (2007) bootstrap: Functions for the Book “An Introduction to the Bootstrap”. R package version 1.0-22
- Trenberth KE (1984) Signal versus noise in the Southern Oscillation. *Monthly Weather Review* 112(2):326–332
- Tsonis AA, Roeber PJ (2004) The architecture of the climate network. *Physica A-Statistical Mechanics and Its Applications* 333:497–504
- Tsonis AA, Swanson KL, Roeber PJ (2006) What do networks have to do with climate? *Bulletin of the American Meteorological Society* 87(5):585+
- Tufte E (1997) Visual explanations: images and quantities, evidence and narrative. Graphics Press, Cheshire, CT.
- Vickery PJ, Lin J, Skerlj PF, Twisdale LA, Huang K (2006) HAZUS-MH hurricane model methodology. I: Hurricane hazard, terrain, and wind load modeling. *Natural Hazards Review* 7:82–93, DOI {10.1061/(ASCE)1527-6988(2006)7:2(82)}

- Walshaw D (2000) Modelling extreme wind speeds in regions prone to hurricanes. *Journal of The Royal Statistical Society Series C (Applied Statistics)* 49(Part 1):51–62
- Wickham H (2007) Reshaping data with the reshape package. *Journal of Statistical Software* 21(12), URL <http://www.jstatsoft.org/v21/i12/paper>
- Wickham H (2009)  ggplot2: elegant graphics for data analysis. Springer, New York, NY URL <http://had.co.nz/ggplot2/book>
- Wilkinson L (2005) The Grammar of Graphics (Statistics and Computing). Springer-Verlag, New York, Inc., Secaucus, NJ, USA
- Wilks D (2006) Statistical Methods in the Atmospheric Sciences. International Geophysics Series, Academic Press, Oxford.
- Winkler RL (2003) An Introduction to Bayesian Inference and Decision, 2nd Edition. Probabilistic Publishing, ISBN 0-9647938-4-9
- Zeileis A, Kleiber C, Jackman S (2008) Regression models for count data in R. *Journal of Statistical Software* 27(8), URL <http://www.jstatsoft.org/v27/i08/>

