

REFERÊNCIAS BIBLIOGRÁFICAS

- ANGSTRÖM, A. Solar and terrestrial radiation. **Quarterly Journal Research Meteorology Society**, v.50, p.121-126, 1924.
- ANNANDALE, J. G.; JOVANIC, N. Z.; BENADE, N.; ALLEN, R. G. Software for missing data error analysis of Penman-Monteith reference evapotranspiration. **Irrig. Science.**, v.21, p.57-67, 2002.
- ANTHONI, P.M., LAW, B.E., UNSWORTH, M.H. Carbon and water vapour exchange of an open-canopied ponderosa pine ecosystem. **Agricultural and Forest Meteorology**, v.95, p.151-168, 1999.
- BALDOCCHI, D. D.; KELLIHER, F. M.; BLACK, J. A.; JARVIS, P. Climate and vegetation controls on boreal zone energy exchange. **Global Change Biology**, v.6, p.69-83, 2000.
- BALDOCCHI, D. D.; WILSON, K. B. Modeling CO₂ and water vapor exchange of a temperate broadleaved forest across hourly to decadal time scales. **Ecological Modelling**, v.142, p.155-184, 2001.
- BASTABLE, H. G.; SHUTTLEWORTH, W. J.; DALLAROSA, R. L. G.; FISCH, G.; NOBRE, C. A. Observations of climate, albedo and surface radiation over cleared and undisturbed Amazonian Forest. **International Journal of Climatology**, v.13, n.7, p.783-796, 1993.
- BLASCO, J. F. **Climatic factors and the biology of mangrove plants**. In: THE MANGROVE ECOSYSTEM: RESEARCH METHODS. Paris, UNESCO, p.20-35, 1984.
- BRISTOW, K. L.; CAMPBELL, G. S. On the relationship between incoming solar radiation and daily maximum and minimum temperature. **Agricultural and Forest Meteorology**, v.31, p.159-166, 1984.

- BRUIN, H. A. R. **Course on evapotranspiration: Theoretical background and methods of observation.** Wageningen University. Palmyra, Syria, 1^a ed., 2004. 112p.
- BRUIN, H. A. R.; HOLTSLAG, A. A. M. A simple parametrization of the surface fluxes of sensible and latent heat during daytime with the Penman-Monteith concept. **Journal of Applied Meteorology**, v.21, p.1610-1621, 1982.
- BRUNT, D. Notes on radiation in the atmosphere. **Quarterly Journal of the Royal Meteorological Society**, v. 58, p. 389-420, 1932.
- BRUTSAERT, W. H. On derivable formula for long-wave radiation from clear skies. **Water Resources Research**, v.11, p.742-744, 1975.
- BRUTSAERT, W. H. **Evaporation into the Atmosphere.** D. Reidel. Dordrecht, 1982.
- CARSWELL, F. E.; COSTA, A. C. L.; PALHETA, M.; MALHI, Y.; COSTA, J.P.R.; LEAL, L.S.M.; COSTA, J.M.N.; CLEMENTE, R.J.; GRACE, J. Seasonality in CO₂ and H₂O flux at an eastern Amazonian rain forest. **Journal Geophysical Research**, v.107, n.D20, art. N. 8076, 2002.
- CHAPMAN, V. J. **Ecosystems of the world: wet coastal ecosystems.** New York: Elsevier, 1977. 428 p.
- COHEN, J. C. P.; SILVA DIAS, M. A. F.; NOBRE, C. A. Environmental conditions associated with Amazonian squall lines: A case study. **Monthly Weather Review**, v.123, p.3163-3174, 1995.
- COHEN, M. C. L.; LARA, R. J.; RAMOS, J. F. da F.; DITTIMAR, T. Factors influencing the variability of Mg, Ca, and K in waters of a mangrove creek in Bragança, North Brazil. **Mangroves and salt marshes**, v.3, p.9-15, 1999.
- CORREIA, F. W. S. **Modelagem do impacto de modificações da cobertura vegetal no clima regional e global.** São José dos Campos. 358p. Tese (Doutorado em Meteorologia)- Instituto Nacional de Pesquisas Espaciais, 2005.
- COSTA, A. C. L. Variações térmicas decorrentes da degradação de manguezais na região Bragantina, no Estado do Para. CONGRESSO BRASILEIRO DE AGROMETEOROLOGIA. Fortaleza-CE, 2001.
- COSTA, M. H.; FOLEY, J.A. The water balance of the Amazon basin: Dependence on vegetation cover and Canopo conductance. **Journal of Geophysical Research-Atmospheres**, v. 102, n. D20, p.23973-23990, 1997.

- DICKINSON, R. E. Modeling evapotranspiration for three-dimensional global climate models. In: Hansen, J. E.; Takahashi, T. (eds.). Climate processes and climate sensitivity. Washington, **American Geophysical Union**, v.4, p.58-72, 1984.
- DIEGUES, A.C.S. **Ecologia humana e planejamento em áreas costeiras**. São Paulo, NUPAUB – USP, 1996. 248p.
- DYE, P. J. AND OLBRICH, B. W. Estimating transpiration from 6-year-old eucalyptus grandis trees: development a canopy conductance model and comparison with independent sap flux measurements. **Plant Cell Environmental**, v.16, p.43-53, 1993.
- FARQUHAR, G. D.; CAEMMERER, S. Modeling photosynthetic response to environmental conditions. **Physiological plant Ecology**. v.12B, p.549-587, 1982.
- FEDERER, C. A. Spatial variation of net radiation, albedo and surface temperature of forest. **Journal of Applied Meteorology**, v.7, p.789-795, 1968.
- FINNIGAN, J; CLEMENT, R.; MALHI, Y. A re-evaluation of long-term flux measurement techniques. Part I: Averaging coordinate rotation. **Boundary Layer Meteorology**, v.107, n.1, p.1-48, 2003.
- FIDELMAN, P. I. J. Manguezais do rio Santana, Ilhéus, Bahia: Caracterização do sistema. **Revista de estudos ambientais**, v.3, n.1, p.86-94, 2001.
- GALVÃO, J. A. C.; FISCH, G. Energy budget in forest and pasture sites in Amazonian. **Revista Brasileira de Meteorologia**, v. 5, p.25-37. 2000.
- GASH, J. H. C.; NOBRE, A. C. An Overview of ABRACOS. In: Gash, J. H. C.; Roberts, J. M.; Victoria, R. L., ed. **Amazonian deforestation and climate**. Chicester, UK, John Wiley and Sons, 1ª ed., 1996. p. 1-14.
- GATES, D. M. **Biophysical Ecology**. New York: Springer Verlag, 1980. 287p.
- HARGREAVES, G. H.; SAMANI, Z. A. Estimating potential evapotranspiration. **Journal irrig. Drain. Eng.**, v.108, p.225-230, 1982.
- HENDERSON-SELLERS, A.; DICKINSON, R. E.; DURBRIDGE, T. B.; KENNEDY, P. J.; MCGUFFIE, K.; PITMAN, A. J. Tropical deforestation: modelling local to regional-scale climate change. **Journal of Geophysical Research – Atmospheres**, v.98, p.7289-7315, 1993.

- HERZ, R. **Distribuição dos padrões espectrais associados à estrutura física dos manguezais de um ecossistema costeiro subtropical**. São Paulo. 378p. Tese (livre docência). Instituto oceanográfico - Universidade de São Paulo, 1988.
- HIGUCHI, P. **CO₂ fertilization the great uncertainty in future vegetation development**. In: *Vegetation Dynamics and Global Change*, Chapman & Hall, p. 53-70, 2001.
- INSTITUTO NACIONAL DE METEOROLOGIA – INMET. **Normais Climatológicas**. Brasília, DF: 1992, 155 p.
- JACOBS, J. D. Radiation climate of Broughton Island. Energy budget studies in relation to fast-ice breakup processes in Davis Strait. **Inst. Of Arctic and Alp Res.**, University of Colorado, Boulder, United States, v.26, p.105-120, 1978.
- JARVIS, P. G.; MCNAUGHTON, K. G. Stomatal control of transpiration: scaling up from leaf to region. **Advances in Ecological Research**, v.15, p.1-49, 1986.
- JOHNS, J.W.C. **The absorption of radiation by water vapor**. In **Humidity and Moisture**, ed. A. Wexler, vol. 1:417-427. New York: Reinhold Publishing Corp. 1963.
- KALLARACKAL, J. AND SOMEN, C. K. An ecophysiological evaluation of the suitability of Eucalyptus grandis for planting in the tropics. **Forest Ecology and Management**, v.95, p.53-61, 1997.
- KELLOMÄKI, S.; WANG, K. Y. Short-term environmental controls on carbon dioxide flux in a boreal coniferous forest: model computation compared with measurements by eddy covariance. **Ecological Modelling**, v.128, p.63-88, 2000.
- KIEHL, E. J. **Manual de edafologia**. São Paulo: Ceres, 1979. 191-215 p.
- LARCHER, W. **Ecofisiologia Vegetal**. São Paulo: EDUSP, 1986. 286p.
- LAUBACH, J.; McNAUGHTON, K. G. A spectrum-independent procedure for correcting eddy fluxes measured with separated sensor. **Boundary-Layer Meteorology**, v.89, p.445-467, 1999.
- LEAL, L. S. M. **Variação sazonal do fluxo e da concentração de CO₂ na região leste da floresta Amazônica-PA**. Viçosa, MG: UFV, 2001. 37p. Dissertação (Mestrado em Meteorologia Agrícola) – Universidade Federal de Viçosa, 2000.
- LEAN, J.; ROWTREE, P. R. A GCM simulation of the impact of Amazonian deforestation on climate using an improved canopy representation. **Quarterly Journal of Royal Meteorological Society**, v.119(511), p.509-530, 1993.

- LEAN, J.; BUTTON, C. B.; ROWTREE, P. R. The simulated impact of Amazonian deforestation on climate using measured ABRACOS vegetation characteristics. In: **Amazonian deforestation and climate**. Gash, J. H. C., Nobre, C. A., Roberts, J. M., Victoria, R. L. (eds.). John Wiley & Sons, Chichester, UK, 1996. 611p.
- LEUNING, R. Modelling stomatal behavior and photosynthesis of eucalyptus grandis. **Australian Journal Plant Physiology**, v.17, p.159-175, 1990.
- LIANHONG, G.; SHUGART, H. H.; FUENTES, J. D.; BLACK, T. A.; SHEWCHUCK, S.R. Micrometeorology, biophysical exchanges and NEE decomposition in a two-story boreal forest – development and test of an integrated model. **Agricultural and Forest Meteorology**, v.94, p.123-148, 1999.
- LLOYD, C. R.; SHUTTLEWORTH, W. J.; GASH, J. H. C.; TURNER, M. A. Microprocessor system for eddy-correlation. **Agricultural Forest Meteorology**, v. 33 p.67-80, 1984.
- MALHI, Y.; NOBRE, A. D.; GRACE, J.; KRUIJT, B.; PEREIRA, M. G. P. P.; CULF, A.; SCOTTS, S. Carbon dioxide transfer over a central Amazonian rain forest. **Journal of Geophysical Research**, v.103, p.31593-31612, 1998.
- MALHI, Y.; PEGORARO, E.; NOBRE, A. D.; PEREIRA, M. G. P.; GRACE, J.; CULF, A. D. and CLEMENT, R. The energy and water dynamics of a central Amazonian rain forest. **Journal of geophysical research**, v. 107, n.10.1029/2001JD000623, 2002.
- MANZI, A. O. **Introduction d'un schema des transferts sol-vegetation-atmosphère dans un modèle de circulation générale et application a la simulation de la deforestation Amazonienne**. Toulouse, France. 293p. Tese (Doutorado)-Universidade Paul Sabatier, 1993.
- MARQUES da SILVA, N. S.; CARVALHO, E. A.; MELLO, C. F. **Levantamento preliminar das angiospermas do manguezal da estrada de Ajuruteua, município de Bragança-PA**. In: Workshop internacional do programa MADAM. Resumos. UFPA,1997, v.1, p.3.
- MARHT, L.; VICKERS, D. Relationship of area-averaged carbon dioxide and water vapour fluxes to atmospheric variable. **Journal of Climate**, v.17, p.2242-2256, 2002.
- McMILLEN, R. T. **A BASIC program for eddy correlation in non-simple terrain**. NOAA Tech. Memo. ERL ARL-147. NOAA, Air Resources Lab. Oak Ridge, MD. 1986.
- MEYERS, T. P. A comparison of summertime water and CO₂ fluxes over rangeland for well watered and drought conditions. **Agricultural Forest Meteorology**, v.106, p.205–214, 2001.

- MIELKE, M. S.; OLIVA, M. A.; BARROS, N. F.; PENCHEL, R. M. Stomata control of transpiration in the canopy of a clonal *Eucalyptus grandis* plantation. **Trees**, v.13, p.152-160, 1999.
- MOLION, L. C. B. Climatologia dinâmica da região amazônica: mecanismos de precipitação. **Revista Brasileira de Meteorologia**, v. 2(1), p.107-117, 1987.
- MONCRIEFF, J.B.; MASSHEDER, J.M.; DE BRUIN, H.; ELBERS, J.; FRIBORG, T.; HEUSINKVELD, B.; KABAT, P.; SCOTT, S.; SOEGAARD, D.; VERHOEF, A. A system to measure surface fluxes of momentum, sensible heat, water vapour and carbon dioxide. **Journal of hydrology**, v.188-189, p. 589-611, 1997.
- MONTEITH, J. L. Evaporation and environment. **Symp. Soc. Exp. Biology**, v.19, p.205-234, 1965.
- MOORE, C. J. Frequency response corrections for eddy correlation systems. **Boundary Layer Meteorology**, v.37, p.17-35, 1986.
- MOORE, C. L.; FISCH, G. Estimating heat storage in Amazonian tropical forests. **Agricultural and Forest Meteorology**, v.38, p.147-169, 1986.
- MYERS, V. I. Remote sensing application in agriculture. In: COLWELL, R. N., ed. Manual of remote sensing falls Church American Society of Photogrammetry, p. 2111-2228. 1983.
- NICHOLS, W. D. Energy budgets and resistances to energy transport in sparsely vegetated rangeland. **Agricultural and Forest Meteorology**, v.60, n.3-4, p.147-221, 1992.
- NOBRE, C. A.; SHUKLA, J.; SELLERS, P. J. Impactos climáticos do desmatamento da Amazônia. **Climanálise – Boletim de Monitoramento e Análise Climática**, v.4(10), p.44-55, 1989.
- NOBRE, C. A.; SELLERS, P. J.; SHUKLA, J. Amazonian deforestation and regional climate change. **Journal of Climate**, v.4, p.957-988, 1991.
- NORMAN, J. M. Modelling the complete crop canopy. In: Barfield, B. J. and Gerber, J. (Eds.), Modification of the aerial environment of crops. **American Society of Agricultural Engineers**, St. Joseph, MI p.249-277, 1979.
- ODUM, H. T.; LUGO, A.; CINTRON, G. et al., 1970, Metabolism and evapotranspiration of some rainforest plants and soils. In: A Tropical Rainforest, U.S. Atomic Energy Commission., Washington, D.C., pp. 1103-1164.

- OMETTO, J. C. **Bioclimatologia vegetal**. Ed. Agr. Ceres, São Paulo, 1981. 436p
- PATTEY, E.; HUNT, R. Measuring nighttime CO₂ flux over terrestrial ecosystems using eddy covariance and nocturnal boundary layer methods. **Ag & Forest Meteorology**, v.113, issues 1-4, p.145-158, 2002.
- PEREIRA, A. R.; VILLA NOVA, N. A., SEDIYAMA, G. C. **Evapo(transpi)ração**. Piracicaba: FEALQ, 1997. 183p.
- PEREIRA, M. G. P. **Balço de radiação e de energia em um ecossistema de floresta tropical na Amazônia Central**. Viçosa, MG. 54p. Dissertação (Mestrado em Meteorologia Agrícola)- Universidade Federal de Viçosa, 2001.
- PHILLIPS, O. L.; MALHI, Y.; HIGUCHI, N.; LAURANCE, W. F.; VÁSQUEZ, R. M.; LAURANCE, S. G.; FERREIRA, L. V.; STERN, M.; BROWN, S.; GRACE, J. Changes in carbon balance of tropical forests: evidence from long-terms plots. **Science**, v. 282, p.439-442, 1998.
- RIBEIRO, J. B. M. **Micrometeorologia do manguezal e o impacto do desmatamento em Bragança-PA**. São Carlos. 119p. Tese (Doutorado em Ciências da Engenharia Ambiental) - Universidade Federal de São Carlos-USP, 2001.
- RADERSMA, S.; RIDDER, N. Computed evapotranspiration of annual and perennial crops at different temporal and spatial scales using published parameter values. **Agricultural Water management**, v.31, p.17-34, 1996
- RUIVO, M. L. P.; SALES, E. C.; NOGUEIRA, E. L.; BATISTA, E. B. S.; OLIVEIRA, M. L. Caracterização química, biológica e micromorfológica do solo de manguezal. Sítio do LBA: Bragança Nordeste do Pará. **Revista Gerenciamento Costeiro Integrado**, código GCI-ESP/001-04, 2004.
- SAIGUSA, N.; YAMAMOTO, S.; MURAYAMAS, S.; KONDO, H.; NISHIMURA, N. Gross primary production and net ecosystem exchange of a cool-temperate deciduous forest estimated by the eddy covariance method. **Agricultural and Forest Meteorology**, v.112, p.203-215, 2002.
- SANTOS ALVALÁ, R. C. **Estudo da partição de energia em terrenos complexos (áreas desflorestadas e florestas)**. São José dos Campos. 149p. Tese (Doutorado em Meteorologia)-Instituto Nacional de Pesquisas Espaciais, 1993.
- SANTOS, S. N. M. **Modelo de fluxos de energia, água e CO₂ aplicado em ecossistema de floresta tropical**. Viçosa-MG. 80p. Dissertação (Mestrado em Meteorologia Agrícola)- Universidade Federal de Viçosa, 2001.

- SAKAI, R.; FITZJARALD, D.; MOORE, K. Importance of low-frequency contributions to eddy fluxes observed over rough surfaces. **Journal of Applied Meteorology**, v.40, p.2178-2192, 2001.
- SEDIYAMA, G. C.; GOMIDE, R. L. Correlação de turbilhões, monitoramento para manejo da irrigação: Instrumentação, automação e métodos. In: XXII Congresso Brasileiro de Engenharia Agrícola. (Poços de Caldas). Manejo de irrigação. FARIA, M. A.; SILVA, E. L.; VILELA, L. A., 1998. p.378.
- SILVA, J. F. **Ensaio sobre o balance de radiação no ambiente costeiro: Sistema Estuarino-Lagunar Cananéia-Iguape**. São Paulo. 139p. Tese (Doutorado)– Faculdade de Filosofia, Letras e Ciências Humanas, Universidade de São Paulo, 1991.
- SILVA, J. F.; HERZ, R. Estudos de microclimas em ambientes de Manguezais na região do complexo estuarino-lagunar de Cananéia. In: SIMPÓSIO SOBRE ECOSISTEMAS DA COSTA SUL E SUDESTE BRASILEIRA. Cananéia, São Paulo, 1987.
- SNEDAKER, S.C. **Mangrove species zonation: why?** In: SEN, C.N.; RAIPURDHIT, K.S. Tasks for vegetation science, the hague, p. 25-111, 1982.
- SCHULZE, E. D.; KELLIHER, F. M.; KORNER, C.; LLOYD, J. Relationships among maximum stomatal conductance, ecosystem surface conductance, carbon assimilation rate and plant nitrogen nutrition: a Global scaling exercise. **Ann Rev. Ecological System**, v.25, p.629-660, 1994.
- SHUTTLEWORTH, W.J. Corrections for the effects of background concentrations change and sensor drift in real-time eddy correlations systems. **Boundary Layer Meteorology**, v.42, p.167-180, 1988.
- SOUZA FILHO, J. D. C. **Variação sazonal dos componentes do balanço de radiação e energia sobre a floresta de Caxiuanã**. Viçosa, MG. 67p. Dissertação (Mestrado em Meteorologia Agrícola)- Universidade Federal de Viçosa, 2002.
- STULL, R. B. Introduction to boundary layer meteorology. Boston: Kluwer Academic Publishers, 1988. 297 p.
- TEIXEIRA, D. W. **Qualificação e análise dos componentes do balanço de energia nas áreas de floresta e de pastagem da região Amazônica**. Viçosa, MG. 67p. Dissertação (Mestrado em Meteorologia Agrícola)- Universidade Federal de Viçosa, 1999.
- TACONET, O.; OLIOSO, A.; MEHREZ, M. B.; BRISSON, N. Seasonal estimation of evaporation and stomatal conductance over a soybean field using surface IR temperatures. **Agricultural and Forest Meteorology**, v.73, p.321-337, 1995.

- TOGRUL, I. T.; HASAN, T. Global solar radiation over Turkey: comparison of predicted and measured data. **Elsevier Science Renewable energy**, v.25, p.55-67, 2002.
- TOMLISON, P. B. Relation between mangrove vegetation soil texture and the reaction of surface soil after enpoldering saline swampts in Serra Leone. **Tropical Agricultural Trinidad**, v.34, p.41-50, 1986.
- VERHOEF, A.; ALLEN, S. J. A SAVAT scheme describing energy and CO₂ fluxes for multi-component vegetation: calibration and test for a Sahelian Savannah. **Ecological Modelling**, v.127, p.245-267, 2000.
- VERMA, S. B. Micrometeorological methods for measuring surface fluxes of mass and energy. **Remote Sensing Reviews**, v.5, n.1, p.99-110, 1999.
- VISWANADHAM, Y.; MOLION, L. C. B.; MANZI, A. O.; SÁ, L. D. A.; SILVA FILHO, V. P.; ANDRÉ, R. G. B.; NOGUEIRA, J. L. M.; SANTOS, R. C. Micrometeorological measurements in Amazonian forest during GTE/ABLE 2A Mission. **Journal of Geophysical Research**, v.95, p.13669-13682, 1990.
- VON RANDOW, C.; SÁ, L.; GANNABATHULA, P. S.; MANZI, A.; ARLINDO, P.; KRUIJT, B. Scale variability of atmospheric surface layer fluxes of energy and carbon over a tropical rain forest in southwest Amazônia. I. Diurnal conditions. **Journal of Geophysical Research**, v. 107, 8062, doi: 10.1029/2001JD000379, 2002.
- VON RANDOW, C; MANZI, A.; KRUIJT, B.; OLIVEIRA, P.; ZANCHI, F.; SILVA, R.; HODNETT, M.; GASH, J.; ELBERS, J.; WATERLOO, M.; CARDOSO, F.; KABAT, P. Comparative measurements and seasonal variations in energy and carbon exchange over forest and pasture in South West Amazônia. **Theoretical Applied Climatology**, v. 78, p.5-26, 2004.
- YOKOYA, S. N. Distribuição e origem. Em: Schaeffer- Novelli, Y. (eds.). Manguezal: Ecosistema entre a Terra e o Mar. **Caribbean Ecological Research**, São Paulo, p.9-15, 1995.
- WILLIAMS, M.; RASTETTER, E. B.; FERNANDES, D. N.; GOULDEN, M. L. Modelling the soil-plant-atmosphere continuum in a stand at Harvard forest: the regulation of stomatal conductance by light, nitrogen and soil/plant hydraulic properties. **Plant Cell Environmental**, v.19, p.911-927, 1996.
- WULLSCHLEGER, S. D. Biochemical limitations to carbon assimilation in C₃ plants. A retrospective analysis of A?C curves from 109 species. **Crop Science**. v.44, p.907-920, 1993.

WILSON, K.B., BALDOCCHI, D. D. Seasonal and interannual variability of energy fluxes over a broadleaved temperate deciduous forest in North America. **Agricultural and Forest Meteorology**. v.100, p.1–18, 2000.

WOFSY, S.C.; HARRIS, R.C.; KAPLAN, W.A. Carbon dioxide in the atmosphere over the Amazon Basin. **Journal of Geophysical Research**, v.93, n. D2, p1377-1387, 1988.

ZHANG, H.; HENDERSON-SELLERS, A.; MCGUFFIE, K. Impact of a tropical deforestation. Part I: Process analysis of local climatic changes. **Journal of climatology**, v.9, p.1497-1517, 1996.