

## REFERENCES

- ABS 2000, Australian Bureau of Statistics, Aust-Stats, Environmental Issues: Peoples' Views and Practices, Water use and Conservation. [www.abs.gov.au/auststats](http://www.abs.gov.au/auststats).
- ABS 2000, Australian Bureau of Statistics, Aust-Stats, Water Account for Australia, 1993-94 to 1996-97.
- Adger, W.N., (2006), "Vulnerability," Global Environmental Change, Volume 16, Issue 3, Pages 268-281.
- ADWG 1996, Australian Drinking Water Guidelines, (1996), National Water Quality Management Strategy, NHMRC & ARMCANZ.,[www.health.gov.au/nhmrc/publications](http://www.health.gov.au/nhmrc/publications).
- Ahrens, C.D. (1998), "Essential of meteorology, an introduction to the atmosphere", 2<sup>nd</sup> ed. New York: Wadsworth Publishing Company.
- Akinoglu, A., Ecevit, L. (1993), "Modeling of Solar Radiation," Turk. J. Phys. 17: 269.
- Allen, R.G. (1995), "Evaluation of procedures for estimating mean monthly solar radiation from air temperature," Report submitted to the United Nations Food and Agricultural Organization (FAO), Rome, Italy.
- Allen, R.G.(1989), "A penman for all seasons," J.Irrig. and Drain Engr., ASCE, 112(4): 349-368.
- Anis, W.R., Metwally, H.M.B. (1994), "Dynamic performance of directly coupled PV pumping systems," Solar Energy, 53(4): 369-77.
- Angstrom, A., (1924), "Solar and terrestrial radiation," Quart., J.R. Met. Soc., 50, 121-126.
- Appan, A. (1999), "A dual mode system for harnessing roof water for non-potable uses", Urban Water, 1(4): 345-54.
- Arnell, N.W.,(1999), "Climate change and global water resources - a new assessment," Global Environmental Change, Volume 9, Issue 1001, Pages S31-S49.
- Atwater, M. A., Ball, J.T. (1978), "A numerical solar radiation model based on standard meteorological observations," Solar Energy 21: 163-170.
- Bany, J., Applebaum, J. (1979), "Performance analysis of DC motor photovoltaic converter system – 1, Solar Energy, 122:439-45.
- Barnett, J.,(2003), "Security and climate change," Global Environmental Change, Volume 13, Issue 1, Pages 7-17.

Behr, H.D. (1997), "Solar radiation on tilted south oriented surfaces: validation of transfer models," Sol. Energy. 6: 399-413.

Bennet, I. (1969), "Correlation of daily insolation with daily total sky cover, opaque sky cover and percentage of possible sunshine," Solar Energy 13: 391-393.

Bindi, M., Miglietta, F., Maracchi, G. (1991), "Estimating daily global radiation from air temperature and rainfall measurements," Boll. Geof., VI: 141-147.

Bird R., Hulstrom R.L. (1981), "Review evaluation and improvement of direct irradiance model," J. Sol Energy Eng, 103-183.

Black, J. N., Bonython, C. W., Prescott, G. A.(1954), "Solar radiation and the duration of sunshine," Q.J.R. Meteorol. Soc. 80: 231-235.

Black, J.N., (1961), "Some aspects of climatology of solar radiation," Paper presented at UN conference on New Sources of Energy, Rome.

Black, J.N.,(1956), "The distribution of solar radiation over the earth's surface," Arch. Meteorol. Geophys. Bioklim., B7, 165-189.

Blaney, H.F, Criddle, W.D. (1950), "Determining water requirements in irrigated areas from climatological and irrigation data," USDA/SCS-TP 96.

Branvall, G., Eriksson, M., Johansson, U., Svensson, P. (1999), "Physical and monetary data connected to abstraction, use and discharge of water in the Swedish NAMEA," Statistika Centralbyran (Statistics Sweden).

Bristow, K. L., Campbell, G. S.(1984), "On the relationship between incoming solar radiation and daily maximum and minimum temperature," Agric. For. Meteorol. 31: 159-166.

British Petroleum Energy, statistical review, 2006.

Butler, D. (1993) "the influence of dwelling occupancy and day of the week on domestic appliance wastewater discharges", Building and Environment, 28(1): 73-9.

Cano, D., Monget, J. M., Albuisson, M., Guillard, H., Regas, N., Wald, L.(1986) "A method for the determination of the global solar radiation from meteorological satellite data," Solar Energy 37: 31-39.

Cengiz, H.S., Gregory, J. M., Sebaugh, J. L. (1981), "solar radiation prediction from other climatic variables," Trans. A.S.A.E. 24(5):1269-1272.

Central Bank of Sri Lanka, Annual Report, 2005.

Central Bank of Sri Lanka, Annual Report, 2007.

Centre for the Analysis and Dissemination of Demonstrated Energy Technology (CADDET) (1999), “Combined and stepped use of energy in Sumida City office”.

Chakravorty, U., Roumasset, J., Tse, K.,(1997), “Endogeneous substitution among energy resources and global warming,” *J.Ploitical Econ.*, 105, 1201.

Chen, C. L., Chan, C. Y., Chen, C. L. (2005), “empirical approach to BIPV evaluation of solar irradiation for building applications,” *renew. Energy*, 6: 1055-1074.

Chilton, J.C., Midment, G.G., Marriott, D., Francis, A., Tobias, G. (1999), “Case study of a rainwater recovery system in a commercial building with a large roof”, *Urban Water*; 1(4): 345-54.

Collarez, Pereira, M., Rabi, A., *Solar Energy* 22, 195 (1979).

Collin, M.L., Melloul, A.J. (2001), “Combined land-use and environmental factors for sustainable groundwater management,” *Urban Water*, Elsevier Science Ltd.

Collins, W.D. et al. (2001), “Simulating aerosols using a chemical transport model with assimilation of satellite aerosol retrievals: Methodology for INDOEX,” *J. Geophys. Res.*,106 D, 7313-36.

Collins, W.D. et al. (2002), “Simulating of aerosol distributions and radiative forcing for INDOEX: Regional climate impacts,” *J. Geophys. Res.*,107 D, 8028.

Coombes, P. (2002), “Rainwater tanks revisited. New opportunities for urban water cycle management.” PhD Thesis, University of NewCastle, Australia.

Coulson, K.L., (1975), “Solar and terrestrial radiation, Methods and measurements,” pp. 242, Academic Press, New York., London.

CSIRO (2005), Commonwealth Scientific & Industrial Research Organization Department of Atmospheric Research, FAQ, Greenhouse: Questions and Answers, “How will Australia’s climate change in future? [www.dav.csiro.au/publications](http://www.dav.csiro.au/publications).

Cunliffe, D.,(2004), “Guidance on use of rain water tanks,” National Environmental Health Forum Monograph,” Health Council, Water Series No. 3, pp 29.

Da Mota, F.S., Beirsdorf, M.I.C., Acosta, M.J.C., (1977), “Estimates of solar radiation in Brazil,” *Agricultural Meterology.*, 18, 241-254.

Daneshyar M. (1978), “Solar radiation statistics for Iran,” *Sol Energy*,21: 345-9.

Davey (2005), Davey Products Pty Ltd, “Rainbank” Switching System, [www.davey.com](http://www.davey.com).

De Jong, B., (1973), “Net radiation received by a horizontal surface at the earth,” Monograph, Delft University Press.

DeBoer D.W., Olson D.I., Skonard C.J. (2005), "Evaluation of solar radiation estimation procedures for eastern South Dakota," J Proceedings of the South Dakota Academy of Science, Vol.84: 265-275.

Dennler, G., Bereznev, S., Fichou, D., Holl, K., Ilic, D., Koeppe, R., Krebs, M., Labouret, A.; Lungenschmied, C., Marchenko, A., Meissner, D., Mellikov, E., Meot, J., Meyer, A., (2007), "A self-rechargeable and flexible polymer solar battery," Solar Energy, Volume 81, Issue 8, Pages 947-957.

Department of the Environment and Welsh office (1992), "Using water wisely", HMSO, London.

Dixon, A., Butler, D., Fewkes, A.(1999), "Computer simulation of domestic water reuse systems: investigating greywater and rainwater in combination", Water Science Technology, 21(2), 99-106.

Diak, G.R., Gautier, C., Masse, S.(1982), " An operational system for mapping insolation from GOES satellite data," Solar Energy 28: 371-376.

Dogniaux, R., Lemoine, M. (1982), "Classification of radiation sites in terms of different indices of atmospheric transparency in Palz. W.", Solar radiation data. Series F. Vol.2, Reidel Publishing Company, Dordrecht, p. 94-105.

Duffie, J.A., Beckman, W.A. (1991), "Solar Engineering of thermal process," 2<sup>nd</sup> ed. New York: Wiley.

Dungumaro,E.W., Madulu,N.F., (2003), "Public participation in integrated water resources management: the case of Tanzania," Physics and Chemistry of the Earth, Parts A/B/C, Volume 28, Issue 20-27, Pages 1009-1014.

EC, (1995), "Externalities of Energy, Extreme Project," DGXII, JOULE, Report No EUR 16520 EN.

EC, (1997), Energy for the future: Renewable Sources of Energy, White Paper, European Commission, DG XVII.

Economic & Social Commission for Asia & the Pacific (ESCAP) (1989), "Rainwater Harvesting Techniques and Prospects for their application in Developing Island Countries." In Water resources Developments in Asia and the Pacific: Dam safety Evaluation and Monitoring, Water tariffs & Rainwater Harvesting, Bangkok pp 101-108,

Edmonds, J., Reilly, J., (1983), " A long-term global economic model of carbon dioxide release from fossil fuel use," Energy Econ., 5,74.

Edwards, D., Keller, K. (1984), "A workshop design for rainwater catchment systems (Training Guide) & appendix. "Rainwater Harvesting for Domestic Water Supply in Developing Countries," La Paz, UNESCO/ROSTLAC, UNICEF.

Erlykin, A.D., Gyalai, G., Kudela, K., Sloan, T., Wolfendale, A.W.,(2007), “On the correlation between cosmic ray intensity and cloud cover,” Journal of Atmospheric and Solar-Terrestrial Physics.

Etuk, E., Akpabio, L. E. (2002), “Modeling global radiation for a tropical location: Onne, Nigeria,” turk. J. Phys. 29: 63-69.

Excell, R.H.B.,(1981), “A mathematical model for solar radiation in South-East Asia, (Thailand),” Solar Energy 26, 161-168.

Ferenc, K., Jozsef, B., Marianna, V.,(2002), “Changes in solar radiation energy and its relation to monthly average temperature,” Acta Montanistica Slovaca J., 7, 164-166.

Feuermann, D., Zemel, A.(1992), “Validation of models for global irradiance on inclined planes,” Sol. Energy. 1: 59-66.

Fewkes, A. (1999a),”Modeling the performance of rainwater collection systems towards a generalized approach”, Urban water, 1, 323-333.

Fewkes, A. (1999b), “The use of rainwater for WC flushing: The field test of a collection system”, Building & Environment, 34, 765-772.

Folke, C.,(2006), “Resilience: The emergence of a perspective for social-ecological systems analyses,” Global Environmental Change, Volume 16, Issue 3, Pages 253-267.

Forster, J. (1991),”Roof runoff pollution”. In: Grottner, M., Schilling, W., editors: Proceedings of second European Junior scientist Workshop, Kastienbaum, Switzerland, pp. 145-58.

Frantzeskaki, N., Gekas, V., Tsoutsos., (2002), “Environmental implications from the use of solar systems; Examples of the potential impact mitigation in a sustainable perspective,” 7<sup>th</sup> National Conference for Solar Energy Sources, Patras, 6-8, November 2002.

Fritz, S., McDonald, T.H., (1949), “Average solar radiation in the United States,” Heating and Ventilation, 46, 61-64.

Frulla, L. A., Gagliardini, D. A., Grossi, G., Lopardo, R., Tarpley, J. D. (1988),”Incident solar radiation on Argentina from the geostationary satellite GOES: comparison with ground measurements,” Solar Energy 41: 61-69.

Fthenakis, V.,(2000), “End-of-life management and recycling of PV modules,” Energy Policy 28, 1051-1058.

Furumai, H., (2008), “Rainwater and reclaimed wastewater for sustainable urban water use,” Physics and Chemistry of the Earth, Parts A/B/C, Volume 33, Issue 5, Pages 340-346.

Gardner, T., Miller, G., Hyde, R. (2003), "The healthy Home: A step towards sustainable suburbs", paper published in the proceedings of the 2<sup>nd</sup> national water Recycling Conference, Brisbane Sept. 2003, Australian Water Association and Stormwater Industry Association.

Glover, J., McCulloch, J.S.G.,(1958), "The empirical relationship between solar radiation and house of sunshine," Quart. J.R. Met. Soc. 84, 172-175.

Gould, J., Nissen-Peterson, E. (1999), "Rainwater catchment implementation", London, Intermediate technology publications.

Green, M.A.,(2003), "Crystalline and thin-film silicon solar cells: state of the art and future potential," Solar Energy, Volume 74, Issue 3, Pages 181-192.

Green, M.A.,(2004), "Recent developments in photo voltaics," Solar Energy, Volume 76, Issue 1-3, Pages 3-8.

Gregory S. (1993), "Statistical methods and geographer," New York: Wiley.

Hammer, A., Heinemann, D., Hoyer, C., Kuhlemann, R., Lorenz, E., Muller, R., Beyer, H. G. (2003), "Solar energy assessment using remote sensing technologies," Remote Sens. Environ., 86, 423-433.

Hargreaves, G.H, Samani, Z.A. (1985), "Reference crop evapotranspiration from temperature," Transaction of ASAE 1(2): 96-99.

Hargreaves, G.H. (1994), "Simplified coefficients for estimating monthly solar radiation in North America and Europe," departmental paper, dept. of boil. and Irrig. Engrg., Utah State University, Logan, Utah.

Haurwitz, B. (1948), "Insolation in relation to cloud type," J. Meteorol. 5: 110-113.

Hay, J. E., Suckling, P. W.(1979), "An assessment of the networks for measuring and modeling solar radiation in British Columbia and adjacent areas of Western Canada," Canadian Geogr., 23: 222-238.

Healthy Home (2005). Queensland Department of Natural Resources and Mines and Environmental Protection Agency., Healthy Home Project, [www.healthyhomeproject.com](http://www.healthyhomeproject.com).

Hermann, T., Schmida, U. (1999),"Rainwater utilization in Germany: efficiency, dimensioning, hydraulic and environmental aspects", Urban water, 1, 307-316.

Hestnes, A.G.,(1999), "Building integration of solar energy systems," Solar Energy 67, 181-187.

Hills, S., Birks, R., McKenzie, B. (2001)"The Millennium Dome water Cycle experiment: To evaluate water efficiency and customer perception at a recycling scheme for 6 million visitors". Proceedings of the IWA second World water congress, Berlin.

Hitz, S., Smith, J.,(2004), "Estimating global impacts from climate change," Global Environmental Change, Volume 14, Issue 3, October 2004, Pages 201-218

Hodges, T., French, V., LeDuc, S. (1985), "Estimating solar radiation for plant simulation models," AGRISTAR Technical Report, USC 20239.

Hoel, M., Kverndokk, S.,(1996), "Depletion of fossil fuels and the impact of global warming," Resource Energy Econ., 18,115.

Hontaria, L., Aguilera, J., Zufiria, P., "A new approach for sizing stand-alone photovoltaic systems based in neural networks," Sol.Energy, 2005, 78:313-9

Hoogenboom G.(2000), "Contribution of agro-meteorology to the simulation of crop production and its applications," J agriculture and forest meteorology, 103: 137-157.

Iqbal M. (1983), "An introduction to solar radiation," London: Academic Press.

Iziomon, M. G., Mayer, H.(2002), "Assessment of some global solar radiation parameterizations," Atmos. Solar Terres. Phys., 64, 1631-1643.

Jafarpur, K., Yaghoubi, M.A. (1989), "Solar radiation for shiraz, Iran," Sol. Wind Technol. 6(2): 177-179.

Jagtap, S.S. (1991), "Spatial pattern of reference evapotranspiration in Africa," ASAE paper no.91-2644, ASAE national meeting, Chicago, IL.

Jayasinghe, M.T.R., Jayawardene, A. I., Attalage, R. A. (2001) "Concepts for sustainable residential developments for urban and suburban areas in Sri Lanka", Engineer, Journal of Institution of Engineers, Sri Lanka, vol xxxiv, No.2, pp 63-77.

Jenkins, D., Pearson, F., Moore, E., Sun J.K., Valentine, R. (1978), "Feasibility of Rainwater Collection Systems in California", Contribution No. 173, Californian Water Resources Centre, University of California.

Jewitt, G., (2002), "Can Integrated Water Resources Management sustain the provision of ecosystem goods and services?" Physics and Chemistry of the Earth, Parts A/B/C, Volume 27, Issue 11-22, Pages 887-895.

Justus, C. G., Paris, M.V. (1985). "A model for solar spectral irradiance and radiation at the bottom and top of a cloudless atmosphere," J. Appl. Meteorol, 24(3): 193-205.

Kaelin, M., Rudmann, D., Tiwari, A.N,(2004), "Low cost processing of CIGS thin film solar cells," Solar Energy, Volume 77, Issue 6, Pages 749-756.

Kambezidis, H. D., Psiloglou, B. E., Guaymard, C. (1994), "Measurements and models for total solar irradiance on inclined surface in Athens, Greece," Sol. Energy. 2: 177-185.

Kandirmaz, H. M., Yeginil, I., Pestemalci, V., Emraglu, M., (2004), "Daily global solar radiation mapping of Turkey using Meteosat satellite data," Int. J. Remote Sens., 25, 2159-2168.

Kasten, F., Czeplak, G., (1980), "Solar and terrestrial radiation dependent on the amount and type of cloud," Solar Energy, 24: 177-189.

Keulan, H., Van, S., Van, H. D. J., (1986), "Meteorological data," Wageningen, p. 35-46.

Kimura, K., Stephenson, D. G., (1969), "Solar radiation on cloudy days," ASHRAE Trans., 75: 227-234.

Klein S.A. (1994), "Calculation of monthly average insolation on tilted surfaces," Sol Energy, 43(3): 153-68.

Knapp, C. L., Stoffel, T. L. (1980), "Insolation solar radiation manual," Solar Energy Research Institute, Golden, Colorado, p. 281.

Kondo J, Nakamura T, Yamazaki T. (1991), "Estimation of the solar and downward atmospheric radiation," Tenki, 38: 41-48.

Lanka Rainwater Harvesting Forum (2004), "Rainwater Harvesting in urban areas."

Larsen, G.A., Pense, J.R.B., (1982), "Stochastic simulation of daily climatic data for agronomic models," Agronomy Journal, 74, 510-514.

Lastovicka, J., (2009), "Global pattern of trends in the upper atmosphere and ionosphere: Recent progress," Journal of Atmospheric and Solar-Terrestrial Physics, Volume 71, Issue 14-15, Pages 1514-1528.

Latham, B., Schiller, E.J., (1987), "A Comparison of Commonly used Hydrologic Design Methods for Rainwater Collectors", Water Resources Development, 3:165-70.

Laut, P., (2003), "Solar activity and terrestrial climate: an analysis of some purported correlations," Journal of Atmospheric and Solar-Terrestrial Physics, Volume 65, Issue 7, Pages 801-812.

Law, A.M., Vincent, S.G., (2003), Unifit II Users guide, Averill M. Law Associates, Tuscon.

Le Mouel, J.-L., Blanter, E., Shnirman, M., Courtillot, V., (2005), "Empirical analysis of the solar contribution to global mean air surface temperature change," Journal of Atmospheric and Solar-Terrestrial Physics.

Li, F., Ramanathan, V. (2002), "Winter to summer monsoon variation of aerosol optical depth over the tropical Indian ocean," J. Geophys. Res., 107D, doi:10.1029.

Li, Z., Garand, L. (1994), "Estimation of surface albedo from space: A parameterization of global application," Journal of Geophysical Research, Vol. 99, pp.8335-8350.

Liaw, Chao-Hsien., Tsai, Yao-lung.,(2004), "Optimum storage volume of rooftop Rain water harvesting system for domestic use", journal of American Water Resources Association.

Liu, B.Y.H., Jordan, R.C.,(1960), "Solar Energy," 4(3), 1.

Lof, G.O.G., Duffie, J., Smith, C.O.,(1965), "World distribution of solar radiation," Engineering station report No. 21, University of Wisconsin, Madison.

Lorenzo, E., Narvarte, L., (2000), "On the usefulness of stand-alone PV sizing methods," Prog. Photo voltaics Appl. 8:301-40.

Lucke, F. K. (1999)"Process water of potable quality; sense or non-sense", Mark Moodie, Newham, UK.

Lumb, F. E. (1964), "The influence of cloud on hourly amounts of total solar radiation at sea surface," Q.J.R. Meteorol. Soc. 90:383.

Madungwe, E., Sakuringwa, S., (2007), "Grey-water reuse: A strategy for water demand management in Harare?" Physics and Chemistry of the Earth, Parts A/B/C, Volume 32, issue 15-18, Pages 1231-1236.

Magal, B. S.(1993), "Solar Power Engineering," Tata McGraw-Hill Publishers.

Mahmoud, E., Nather, H. (2003), "Renewable energy and sustainable developments in Egypt, Photovoltaic water pumping in remote areas," Applied Energy, 74 Elsevier.

Mani, A., Chacko, O., Iyer, N.V.,(1973), "Atmospheric turbidity over India from solar radiation measurements," solar Energy 14, 185-195.

Mani, A., Chacko, O., Krishnamurthy, K., desikan, V.,(1967), "Distribution of global and net radiation over the Indian ocean," Arch. Met. Geoph. Bioklm. B 15, 83-98.

Maracchi, G., Miglietta, F. (1988), "Estimating daily global radiation from air temperature and rainfall measurements," Boll. Geof., VI: 141-147.

Marion, W., George, R.(2001), "Calculation of solar radiation using a methodology with worldwide potential," Solar Energy, 71, 4: 275-283.

Marion, W., Urban, K.(1995), Users manual for TMY2s-typical meteorological years derived from the 1961-1990 National Solar Radiation Data Base, NREL/SP-463-7668, National Renewable Energy Laboratory, Golden, CO.

Massie, D. D., Kreider, J. F., (2001), "Comparison of and discrepancies between TMY and TMY2S predictions for simple photovoltaic and wind energy simulations," Trans. ASME, 123: 6-9.

Maxwell, E. L.(1998), "METSTAT- The solar radiation model used in the production of the NSRDB," Solar Energy, 62.4: 263-279.

McMahon, T.A., Mein, R.G. (1978), "Reservoir Capacity and Yield, developments in Water Science", Amsterdam Elsvier.

McCaskill, M. R. (1990), "Prediction of solar radiation from rain day information using regionally stable coefficients," Agric. For. Meteorol., 51:247-255.

McQuigg, J.D., Decker, W.L.,(1958), "Solar Energy, A summary of records at Columbia, Missouri," Mon. Agr.Exp. Sta. Bull. 671.

Meinel A.B., Meinel M.P. (1977), "Applied solar energy," New York: Addison-Wesley Publ.inc.

Mikkelsen, P. S., Adeler, O. F., Albrecht H. J. & Henzeth.,(1999), "Collected rainfall as a water source in Danish households: What is the potential? What are the costs"? Water Science & Technology, 35(5), 49-56.

Miller, G., Yu, Bofu., Gardner, T. (2003), "Rainfall catch efficiency for domestic water supply," 28<sup>th</sup> International Hydrology and water resources Symposium, Wollongong, NSW, Australia, Institution of Engineers, Australia.

Mills, D., (2004), "Advances in solar thermal electricity technology," Solar Energy, Volume 76, Issue 1-3, Pages 19-31.

Ministry of Urban Development and Water Supply; Government of Sri Lanka 2005.

Mirandola, A., Stoppato, A., (2003), "A variable approach to the optimization of energy systems," Int J Appl Thermodyn; 6(4):157-67.

Moran, P.A.P. (1978), "The Theory of Storage", London:Methuen.

Mottier, V., Bucheli, T., Kobler, D., Ochs, M., Zobrist, J., Amman, A., Eugster, J., Mueller, S., Shoenenberger, R., Sigg, L., Boller, M. (1990),"Qualitative aspects of roof runoff: In: Eighth Junior European workshop-Urban Rainwater resourcefully used"; Deventer, The Netherlands.

Mujumdar, P.P., (2008), "Implications of climate change for sustainable water resources management in India," Physics and Chemistry of the Earth, Parts A/B/C, Volume 33, Issue 5, 354-358.

Muneer, T. (2004), "Solar radiation and daylight models," 2<sup>nd</sup> ed., Amsterdam, Elsevier Ltd, p. 36-37.

Murase, M. (2003),"Promoting rainwater utilization based society for sustainable development in urban areas". [www.ircsa.org](http://www.ircsa.org) website visited on 15<sup>th</sup> Aug 2006.

Mwenge Kahinda, J.m., Taigbenou, A.E., Boroto, J.R.,(2007), "Domestic rainwater harvesting to improve water supply in rural South Africa," Physics and Chemistry of the Earth, Parts A/B/C, Volume 32, Issue 15-18, Pages 1050-1057.

Namal, E. D., Jayasekara, C.B. (2003) "Domestic energy usage in Sri Lanka" Engineer, Journal of Institution of Engineers, Sri Lanka, vol xxxvii, No.3, pp 43-54.

Ndomba, P., Mtalo, F., Killingtveit, A., (2008), "SWAT model application in a data scarce tropical complex catchment in Tanzania," Physics and Chemistry of the Earth, Parts A/B/C, Volume 33, Issue 8-13, Pages 626-632.

Nicholls, R.J., (2002), "Analysis of global impacts of sea-level rise: a case study of flooding," Physics and Chemistry of the Earth, Parts A/B/C, Volume 27, Issue 32-34, Pages 1455-146.

Nicholls, R.J., (2002), "Analysis of global impacts of sea-level rise: a case study of flooding," Physics and Chemistry of the Earth, Parts A/B/C, Volume 27, Issue 32-34, Pages,1455-1466.

Nordhaus, W.D.,(1979), "The efficient use of energy resources," Yale University Press, New Haven, CT.

Norton, B., Eames, P.S., Lo, N.G.,(1998), "Full-energy-chain analysis of greenhouse gas emissions for solar thermal electric power generation systems," Renewable Energy, 15, 131-136.

Nunez, M.(1987), "A satellite-based solar energy monitoring system for Tasmania, Australia," Solar Energy, 39: 439-444.

OECD/IEA,(1998), "Benign energy? Environmental implications of renewable international energy agency," [www.iea.org](http://www.iea.org)

Olmo, F. J., Vida. J., Foyo, I., Castro-Diez, Y.(1999), "Prediction of global irradiance on inclined surfaces from horizontal global irradiance," Energy. 24: 689-704.

O'Neill, S.J., Hulme, M.,(2009), "An iconic approach for representing climate change," Global Environmental Change, Volume 19, Issue 4, Pages 402-410.

Page, J.K., (1961)., "The estimation of monthly mean values of daily total short wave radiation on vertical and inclined surfaces from sunshine records for latitudes 40<sup>0</sup>N to 40<sup>0</sup>S, " paper presented at the UN conference of New sources of Energy, Rome.

Paltridge, G. W., proctor, D. (1976), "Monthly mean solar radiation statistics for Australia," Sol. Energy, 18: 235-43.

Parry, M.L., Rosenzweig, C., Iglesias, A., Livermore, M., Fischer, G.,(2004), "Effects of climate change on global food production under SRES emissions and socio-economic scenarios," Global Environmental Change, Volume 14, Issue 1, Pages 53-67.

Perenc, K., Jozsef, B., Marianna, V. (2002), "Changes in solar radiation energy and its relation to monthly average temperature," Acto Montanistica Slovaca J.,7: 164-166.

Perez, R., Ineichen, P., Seals, R.(1990), "Modelling daylight availability and irradiance component from direct and global irradiance," Sol. Energy. 5: 271-289.

Perez, R., Seals, R.(1987), "A new simplified version of Perez diffuse irradiance model for tilted surface," Sol. Energy. 3: 221-231.

Plantico, M.S., Lott, J.N.(1995), "Foreign weather data servicing at NCDC," ASHRAE Transactions, Vol 1, Part 1, pp. 484-490.

Polo, J., Zarazalejo, L. F., Ramirez, I., Espinar, B.,(2006), "Iterative filtering of ground data for qualifying statistical models for solar irradiance estimation from satellite data," Solar Energy, 80, 240-247.

Pratt, C.J., Parker, M.A. (1987), "Rainfall loss estimation on experimental surfaces", The 4<sup>th</sup> International Conference on Urban Storm Drainage, Lausanne.

Punyawawardena, B.V.R., Kulasiri, D.,(1996), "Stochastic simulation of solar radiation from sunshine duration in Sri Lanka," Centre for computing and Biometrics, Lincoln, ISSN 1173.

Randel, D.L, Thomas, H., Vonder, H., Mark, A. (1996), "A new global water vapor dataset," Bull.Amer.Meteor.Soc., 77(6):1233-1246.

Raptis, F., Sachau, J., Kaspar, F.,(1995), "Assesment of the external costs of the photovoltaic and wind energy life cycle-national implementation in Germany, report, DG XII, JOULE, ISET, Kassel, Germany.

Ravfeim, K.J.A.,(1981), "Estimating solar radiation income from bright sunshine records," Quart. J.R. Met. Soc. 107, 427-435.

Reddy, S. J. (1971), "An empirical method for the estimation of total solar radiation, "Sol. Energy 13: 289-91.

Remund, J., Salvisberg, E., Kunz, S. (1998), "On the generation of hourly short wave radiation data on tilted surfaces," Sol. Energy. 5: 331-344.

Rianawati, E., Balasubramanian, R., (2009), "Optimization and validation of solid phase micro-extraction (SPME) method for analysis of polycyclic aromatic hydrocarbons in rainwater and storm water," Physics and Chemistry of the Earth, Parts A/B/C, Volume 34, Issue 13-16, Pages 857-865.

Richardson, C.W, (1981), "Stochastic simulation of daily precipitation, temperature and solar radiation," water Resour. Res., 17(1): 182-190.

Rimoczi-Paal, A. (1983), "Determination of global radiation from satellite pictures and meteorological data," Solar Energy, 31: 79-84.

Robledo, L, Soler, A.(1998), "Modelling irradiance on inclined planes with an anisotropic model," Energy. 3: 193-201.

Ruiz, E., Soler, A., Robledo, L.(2002), "Comparison of Olmo model with global irradiance measurement on vertical surface at Madrid," Energy. 27: 975-986.

Rycroft, M.J., Israelsson, S., Price, C., (2000), "The global atmospheric electric circuit, solar activity and climate change," Journal of Atmospheric and Solar-Terrestrial Physics, Volume 62, Issue 17-18, Pages 1563-1576.

Sabbagh, J., Sayigh, A. A. (1977), "Estimation of the total solar radiation from meteorological data, "Sol. Energy, 19: 307-11.

Samani, Z., Bawazir, A. S., Bleiweiss, M., skaggs, R., Tran, V.D.(2007), "Estimating daily net radiation over vegetation canopy through remote sensing and climatic data," J. Irrig. Drainage Eng., ASCE, 133: 291-297.

Samimi J.(1994), "Estimation of height dependent solar irradiation and application to the solar climate of Iran," Sol Energy, 52: 5401-9.

Samuel, T.D.M.A. (1991), "Estimation of Global radiation for Sri Lanka," Solar Energy, 47(5): 333-337.

Samuel, T.D.M.A., Srikanthan, R.(1982), "Solar radiation estimation for Sri Lanka," transactions of the Institution of Engineers, Sri Lanka, pp.15-19.

Scharmer, K., Greeif, J.,(2000), "European solar radiation atlas," Les Presses de l'Ecole des Mines, Paris, France.

Schultz, R.E.,(1976), "A physically based method of estimating solar radiation from suncards," Ibid. 16, 85-101.

Sendanayake, S. (2007), MSc. Thesis, University of Moratuwa, Sri Lanka.

Short, T. D., Burton, J. D. (2003),"The benefits of induced flow solar powered water pumps", Solar Energy, 74, Elsevier Science Ltd.

Sims, R.E.H,(2004), "Renewable energy: a response to climate change," Solar Energy, Volume 76, Issue 1-3, Pages 9-17.

Smit, B., Wandel, J.,(2006), "Adaptation, adaptive capacity and vulnerability," Global Environmental Change, Volume 16, Issue 3, Pages 282-292.

Soga, K., Akasaka, H., Nimiya, H.(1998), "A comparison of methods to estimate global irradiance on tilted surfaces from horizontal global irradiance," J. Archit. Plann. Environ. Eng. AJJ. 512: 17-24.

Spencer J.W. (1971), "Fourier series representation of the position of the sun," Search 2(s): 172.

Spinks, A.T., Dunstan, R.H., Coombes, P..Kuczera, G. A. (2003),"Water quality. treatment processes and health implications of using harvested rainwater in the urban

environment.” In: 28<sup>th</sup> Hydrology and Water Resources symposium, Institution of Civil Engineers, Australia, Wollongong.

Squires, M.F.(1995), “The demographics of worldwide weather data,” ASHRAE Transactions, Vol.1, Part 1, pp. 484-490.

Stanhil, G.,(1965), “A comparison of four methods of estimating solar radiation,” In methodology of plant eco-physiology., pp 55-61. Proc. Montpellier Symposium, UNESCO, Paris.

Stringer, E.T.,(1972), “Techniques in climatology,” pp 200, W.H. Freeman and Company, San Fransisco, USA.

Sturm, M., Zimmermann, M., Schutz, K., Urban, W., Hartung, H., (2009), “Rainwater harvesting as an alternative water resource in rural sites in central northern Namibia,” Physics and Chemistry of the Earth, Parts A/B/C, Volume 34, Issue 13-16, Pages 776-785.

Suckling, P.W.(1985), “Estimating daily solar radiation values in selected mid-latitude regions by extrapolating measurements from nearby stations,” Solar Energy, 35: 491-495.

Suppiah, R.,(1989), “Relationship between the southern oscillation and the rainfall of Sri Lanka,” International Journal of Climatology, 9, 601 – 618.

Surendran, S., Wheately, A. (1998), “Grey-water reclamation for non-potable re-use”, J. CIWEM, p 406-13. [www.lib.mrt.ac.lk](http://www.lib.mrt.ac.lk)

Svensmark, H., Friis-Christensen, E., (1997), “Variation of cosmic ray flux and global cloud coverage--a missing link in solar-climate relationships,” Journal of Atmospheric and Solar-Terrestrial Physics, Volume 59, Issue 11, Pages 1225-1232.

Tabata, S. (1964), “Insolation in relation to cloud amount and sun’s altitude,” In. Yohida K., Studies on oceanography, University of Tokyo., pp.202-210.

Tarpley, J.D.(1979), “Estimating incident solar radiation at the surface from geostationary satellite data,” J. Appl. Meteorol., 18: 1172-1181.

Tiwari, G.N. (2002), “Solar Energy: Fundamentals, Design, Modeling and applications,” Alpha Science Publishers.

Tomas, M. (2000), “Solar Electricity,” 2<sup>nd</sup> ed. New York: Wiley. p. 5-18.

Tonui, J.K., Tripanagnostopoulos, Y. (2008), “Performance improvement of PV/T solar collectors with natural air flow operation,” Solar Energy, Volume 82, Issue 1, Pages 1-12.

Tsoutsos, T., Frantzeskaki, N., Gekas, V. (2005), “Envirnmental impacts from the solar energy technologies”, Elsevier, Energy Policy 33: 289-296.

Tsur, Y., Zemel, A.,(1992), "Stochastic energy demand and the stabilization value of energy storage," Natural Resource Model, 6,435.

Turner, W.D., Abdulaziz, M. (1984), "The estimation of hourly global solar radiation using a cloud cover model developed at Blytheville, Arkansas," J. Appl. Meteorol., 23: 781-786.

United Nations Environmental Program-DTIE-EITC/Sumida City Government/People for promoting rainwater utilization (2002), "Rainwater harvesting and utilization, an environmentally sound approach for sustainable urban water management", An Industry guide for decision makers, United Nations water resources series, No.63

Vairavamoorthy, K., Gorantiwar, S.D., Pathirana, A.,(2008), "Managing urban water supplies in developing countries - Climate change and water scarcity scenarios," Physics and Chemistry of the Earth, Parts A/B/C, Volume 33, Issue 5, Pages 330-339.

Vale, R., Vale, B. (1995),"Water and sewage treatment in the autonomous house", Plumbing magazine, NSW, Australia, p17-19.

Villareal, E.L., Dixon, A. (2004), "Analysis of a rainwater collection system for domestic water supply in Ringdansen, Norrkoping, Sweden", Building & Environment, 40, Elsevier Ltd.

Walda, A.J., PV status report 2005, EUR 21836 EN, 2005.anka.

Walsh, H. (1999), Private communication. Environment agency.

Wenxian, L., Wenfeng, G., Shaosuang, P., Enrong, L. (1995), "Ratios of global radiation on a tilted to horizontal surface for Yunan province, China," Energy.8: 723-728.

Wijayatunga, P.D.C., Fernando, W.J.L.S. (2003), "Greenhouse gas emission mitigation in the Sri Lanka power sector supply side and demand side options". Pergamon, energy conversion and management.

World Bank report, 2009

Xanthopoulos, C., Hahn,H. (1994), "Priority pollutants from urban storm water runoff In to the environment". Journal of European Water Pollutions Control, 4(5); 32-41.

Y. Okada, Y., Yamamoto, A., Takamoto, T., Araki, K.,(2008), "Novel materials for high-efficiency III-V multi-junction solar cells," Solar Energy, Volume 82, Issue 2, Pages 173-180.

Yaziz, M. I., Gunding, H., Sapari, N., Ghazali, A. W. (1989),"Variations in rainwater quality from roof catchments", Water Research; 23(6): 761-5.

Zaizen, M., Urakawa, T., Matsumoto,Y., Takai, H. (1999), "The collection of rainwater from dome stadiums in Japan". Urban Water, 1(4): 335-59.

Zhou, J., Yezheng, W. (2005), "General formula for estimation of monthly average daily global solar radiation in China," Energy Conversion Manage., 46: 257-68

Zobrist, J., Muller, S.R., Amman, A., Bucheli, T. A., Mottier, V., Ochs, M., Shoenenberger R., Engster, J., Boller, M. (2000), "Quality of roof run-off for Ground water infiltration", Water Resources, vol.34, No.5, pp 1455-1462.



University of Moratuwa, Sri Lanka.  
Electronic Theses & Dissertations  
[www.lib.mrt.ac.lk](http://www.lib.mrt.ac.lk)