

Bibliographie

Bücher

- Backhaus, N. und M. Steinemann, M. (2002) *Leitfaden für wissenschaftliches Arbeiten* (Schriftenreihe Anthropogeographie, Vol. 18). Zürich: Geographisches Institut der Universität Zürich, 100 S.
- Brönnimann, S. (2002) *Ozon in der Atmosphäre*. Verlag Paul Haupt AG, Bern. 184 S.
- Diaz, H. und V. Markgraf (Hrsg.) *El Niño and the Southern Oscillation: Multiscale Variability and Global and Regional Impacts*. Cambridge University Press.
- Glaser, R. 2001. *Klimgeschichte Mitteleuropas*, Primus-Verlag, Darmstadt, 227 pp
- Hartmann, D. L. (1994) *Global Physical Climatology*. Academic Press, 411 S.
- Hurrell, J., Y. Kushnir, G. Ottersen und M. Visbeck (Hrsg.) (2003) *The North Atlantic Oscillation. Climatic Significance and Environmental Impact*. AGU, Washington DC.
- Pfister, C. (1999) Wetternachhersage. 500 Jahre Klimavariationen und Naturkatastrophen (1496-1995). Verlag Paul Haupt.
- Philander, S. G. H. (1990) *El Niño, La Niña, and the Southern Oscillation*. Academic Press, San Diego.
- Wanner, H., D. Gyalistras, J. Luterbacher, R. Rickli, E. Salvisberg und C. Schmutz (2000) *Klimawandel im Schweizer Alpenraum*. vdf Hochschulverlag AG an der ETH, Zürich. 296 S.

Artikel – letzte 1000 Jahre

- Bradley, R. S., K. R. Briffa, T. J. Crowley, M. K. Hughes, P. D. Jones und M. E. Mann (2001) Scope of Medieval Warming. *Science* **292**, 2011-2012.
- Cook E. R., C. Woodhouse, C. M. Eakin, D. M. Meko und D. W. Stahle (2004) Long-term aridity changes in the western United States. *Science* **306**, 1015-1018.
- Crowley, T. (2000) Causes of climate change over the past 1000 years. *Science* **289**, 270-277.
- Esper J., E. R. Cook und F. H. Schweingruber (2002) Low-frequency signals in long tree-ring chronologies and the reconstruction of past temperature variability. *Science* **295**, 2250-2253.
- Jones, P. D. und M. E. Mann (2004) Climate Over Past Millennia. *Reviews of Geophysics* **42**, RG2002, doi: 10.1029/2003RG000143.
- Jones, P. D., T. J. Osborn und K. R. Briffa (2001) The evolution of climate over the last Millennium. *Science* **292**, 662-667
- Mann, M. E. und P. D. Jones (2003) Global surface temperature over the past two millennia. *Geophysical Research Letters* **30 (15)**, 1820, doi: 10.1029/2003GL017814.
- Soon, W. und S. Baliunas (2003) Proxy climatic and environmental changes of the past 1000 years. *Clim. Res.* **23 (2)**, 89-110. (Umstrittener Artikel!)
- Mann et al., (2003) On past temperatures and anomalous late-20th century warmth. *Eos* **84**, 473-476.

Artikel letzte 350 Jahre

- Luterbacher, J., D. Dietrich, E. Xoplaki, M. Grosjean und H. Wanner (2004) European seasonal and annual temperature variability, trends and extremes since 1500. *Science* **303**, 1499-1503.
- Mann, M. E., R. S. Bradley und M. K. Hughes (1998) Global-Scale Temperature Patterns and Climate Forcing Over the Past Six Centuries, *Nature* **392**, 779-787.
- Shindell, D. T., G. A. Schmidt, M. E. Mann, D. Rind und A. Waple (2001) Solar forcing of regional climate change during the Maunder Minimum. *Science* **294**, 2149-2152, 2001.

Artikel – letzte 150 Jahre

- Brönnimann, S., J. Luterbacher, J. Staehelin, T. M. Svendby, G. Hansen und T. Svenoe (2004) Extreme climate of the global troposphere and stratosphere in 1940-42 related to El Niño. *Nature* **431**, 971-974.
- Delworth T. L. und T. R. Knutson (2000) Simulation of early 20th century global warming. *Science* **287**, 2246-2250.
- Jones, P. D., M. New, D. E. Parker, S. Martin und I. G. Rigor (1999) Surface air temperature and its changes over the past 150 years. *Reviews of Geophysics* **37**(2), 173-199.
- Schubert, S. D., M. J. Suarez, P. J. Pegion, R. D. Koster und J. T. Bacmeister (2004) On the causes of the 1930s Dust Bowl. *Science* **303**, 1855-1859.

Ozonloch und Klimaänderung

- Gillett, N. und D. W. J. Thompson (2003) Simulation of recent Southern Hemisphere climate change. *Science* **302**, 273-275.
- Thompson, D. W. J. und S. Solomon (2002) Interpretation of recent Southern Hemisphere climate change. *Science* **296**, 895-899.

Solare Variabilität und Stratosphäre

- Carslaw, K. S., R. G. Harrison und J. Kirkby (2002) Cosmic rays, clouds and climate. *Science* **298**, 1732-1737.
- Haigh, J. D. (1996) The impact of solar variability on climate. *Science* **272**, 981-984.
- Haigh, J. D. (2001) Climate variability and the role of the Sun. *Science* **294**, 2109-2111.
- Labitzke, K. G. und H. van Loon (1999) *The stratosphere. Phenomena, History, and Relevance*. Springer, Berlin.
- Robock, A. (1996) Stratospheric control of climate. *Science* **272**, 972-973.
- Shindell, D. T., D. Rind, N. Balachandran, J. Lean und P. Lonergan (1999) Solar cycle variability, ozone and climate. *Science* **284**, 305-308.

Methoden

- Mann, M. E. (2002) The Value of Multiple Proxies. *Science* **297**, 1481-1482.

Mann, M. E. und M. L. Hughes (2002) Tree-Ring Chronologies and Climate Variability. *Science* **296**, 848, 2002.

von Storch, H., E. Zorita, J. Jones, Y. Dimitriev, F. González-Rouco und S. Tett (2004) Reconstructing past climate from noisy data. *Science* **306**, 679-682.

Vulkanismus und Klima

Adams J. B., M. E. Mann und C. M. Ammann (2003) Proxy evidence for an El Niño-like response to volcanic forcing. *Nature* **426**, 274-278.

Robock, A. (2000) Volcanic eruptions and climate. *Reviews of Geophysics* **38**, 191-219.

Robock, A. (2002) Pinatubo eruption: The climatic aftermath. *Science* **295**, 1242-1244.

Nordatlantische und Arktische Oszillation

Thompson, D. W. J. und J. M. Wallace (1998) The Arctic Oscillation signature in the wintertime geopotential height and temperature fields. *Geophys. Res. Lett.* **25**, 1297-1300.

Thompson, D. W. J. und J. M. Wallace (2001) Regional Climate Impacts of the Northern Hemisphere Annular Mode. *Science* **293**, 85-89.

Hartmann, D. L., J. M. Wallace, V. Limpasuvan, D. W. J. Thompson und J. R. Holton (2000) Can Ozone Depletion and Greenhouse Warming Interact to Produce Rapid Climate Change? *Proc. Nat. Acad. Sci.* **97**, 1412-1417.

Hoerling, M. P., J. W. Hurrell und T. Xu (2001) Tropical Origins for Recent North Atlantic Climate Change. *Science* **292**, 90-92.

Hurrell, J., Y. Kushnir, G. Ottersen und M. Visbeck (2003) An Overview of the North Atlantic Oscillation, in Hurrell, J., Y. Kushnir, G. Ottersen und M. Visbeck (Hrsg.) *The North Atlantic Oscillation. Climatic Significance and Environmental Impact*. AGU, Washington DC, S. 1-36.

Visbeck, M. (2002) The ocean's role in Atlantic climate variability. *Science* **297**, 2223-2224.

Wallace, J. M. und D. W. J. Thompson (2001) Annular Modes and Climate Prediction. *Physics Today* **55**, 28-33.

Wanner, H., S. Brönnimann, C. Casty, D. Gyalistras, J. Luterbacher, C. Schmutz, D. B. Stephenson und E. Xoplaki (2001) North Atlantic Oscillation - Concepts and Studies. *Surveys in Geophysics* **22** (4), 321-381.

Referenzen in den Figuren

Acuna-Soto, R., D. W. Stahle, M. K. Cleaveland und M. D. Therrell (2002) Megadrought and megadeath in 16th century Mexico. *Emerging Infect. Dis.* **4**, 360-362

Alexander, M. A. et al. (2002) The atmospheric bridge: Influence of ENSO teleconnections on air-sea interaction over the global oceans. *J. Clim.* **15**, 2205-2231.

Baldwin M. und T. J. Dunkerton (2001) Stratospheric harbingers of anomalous weather regimes. *Science* **294**, 581-584.

- Baldwin, M. P., L. J. Gray, T. J. Dunkerton, K. Hamilton, P. H. Haynes, W. J. Randel, J. R. Holton, M. J. Alexander, I. Hirota, T. Horinouchi, D. B. A. Jones, J. S. Kinnersley, C. Marquardt, K. Sato und M. Takahashi (2001) The Quasi-biennial oscillation. *Reviews of Geophysics* **39**(2), 179-229.
- Briffa K. R., P. D. Jones, F. H. Schweingruber und T. J. Osborn (1998) Influence of volcanic eruptions on Northern Hemisphere summer temperature over the past 600 years. *Nature* **393**, 450-454
- Brönnimann, S. (2005) The global climate anomaly 1940-1942. *Weather* (im Druck).
- Brönnimann, S. (2002) Ozon in der Atmosphäre. Verlag Paul Haupt AG, Bern.
- Brönnimann, S., Luterbacher, J., Staehelin, J., Svendby, T.M., Hansen, G., and Svenoe, T., 2004: Extreme climate of the global troposphere and stratosphere in 1940-42 related to El Niño, *Nature* **431**, 971-974.
- Coughlin, K. und K.-K. Tung (2001) QBO Signal found at the Extratropical Surface through Northern Annular Modes. *Geophys. Research Letts.* **28**, 4563-4566.
- Gillett, N. P., H. Graf und T. J. Osborn (2003) Climate Change and the North Atlantic Oscillation. In: Hurrell, J., Y. Kushnir, G. Ottersen und M. Visbeck (Hrsg.) *The North Atlantic Oscillation. Climatic Significance and Environmental Impact*. AGU, Washington DC, S. 193-209.
- Glaser, R. 2001. *Klimgeschichte Mitteleuropas*, Primus-Verlag, Darmstadt, 227 pp
- Highwood E. J. und D. S. Stevenson (2003) Atmospheric impact of the 1783–1784 Laki Eruption: Part II Climatic effect of sulphate aerosol. *Atmospheric Chemistry and Physics* **3**, 1177-1189.
- Hoerling, M. und A. Kumar (2003) The perfoect ocean for drought. *Science* **299**, 691-694.
- Holton, J. R., P. H. Haynes, M. E. McIntyre, A. R. Douglass, R. B. Rood und L. Pfister (1995) Stratosphere-troposphere exchange. *Reviews of Geophysics* **33**, 403-439.
- Kerr, R. A. (1999) A New Force in High-Latitude Climate. *Science* **284**, 241-242.
- Labitzke, K. (2003) The global signal of the 11-Year Sunspot Cycle in the atmosphere: When do we need the QBO? *Met. Z. N. F.* **12**, 209-216.
- Langematz U., M. Kunze, K. Krüger, K. Labitzke und G. L. Roff (2003) Thermal and dynamical changes of the stratosphere since 1979 and their link to ozone and CO₂ changes. *J. Geophys. Res.* **108**, 4027, doi:10.1029/2002JD002069.
- Lean, J. (1997) The sun's variable radiation and its relevance for Earth, *Ann. Rev. Astron. Astrophys.* **35**, 33-67, 1997.
- Limpasuvan, V., D. W. J. Thompson und Hartmann (2004) The life cycle of the Northern Hemisphere stratospheric sudden warmings. *J. Clim.* **17**, 2584–2597.
- Luterbacher, J., E. Xoplaki, D. Dietrich, P. D. Jones, T. D. Davies, D. Portis, J. F. Gonzalez-Rouco, H. von Storch, D. Gyalistras, C. Casty und H. Wanner (2002) Extending North Atlantic Oscillation Reconstructions Back to 1500. *Atmos. Sci. Lett.*, **2**, 114-124, doi: 10.1006/asle.2001.0044
- Luterbacher, J., E. Xoplaki, D. Dietrich, R. Rickli, J. Jacobbeit, C. Beck, D. Gyalistras, C. Schmutz und H. Wanner (2002) Reconstruction of Sea-Level Pressure Fields over the Eastern North Atlantic and Europe Back to 1500. *Clim. Dyn.*, **18**, 545-561.
- Newman, P. A., E. R. Nash und J. E. Roseneld (2001) What controls the temperature of the Arctic stratosphere during the spring? *J. Geophys. Res.* **106**, 19,999-20,010

- Polyakof IV et al. (2003) Variability and trends of air temperature and pressure in the maritime Arctic, 1875–2000. *J. Clim.* **16**, 2067–2077.
- Read, W. G., L. Froidevaux, and J. W. Waters, Microwave Limb Sounder measurement of stratospheric SO₂ from the Mt. Pinatubo volcano. *Geophys. Res. Lett.* **20**, 1299-1302, 1993.
- Reid, G.C. (1997) Solar forcing of global climate change since the mid-17th century. *Clim. Change* **37**, 391-405.
- Shindell, D. T., G. A. Schmidt, R. L. Miller und M. E. Mann (2003) Volcanic and solar forcing of climate change during the preindustrial era. *J. Clim.* **16**, 4094–4107.
- Svensmark, H. und E. Friis-Christensen, 1997: Variation of cosmic ray flux and global cloud coverage – a missing link in solar-climate relationships. *Journal of Atmospheric and Solar-terrestrial Physics* **59**, 1225-1232.
- Thejll, P. und K. Lassen (2000) Solar forcing of the Northern hemisphere land air temperature: New data. *Journal of Atmospheric and Solar-Terrestrial Physics* **62**, 1207-1213.
- Timmermann, A., J. Oberhuber, A. Bacher, M. Esch, M. Latif, E. Roeckner (1999) Increased El Niño frequency in a climate model forced by future greenhouse warming. *Nature*, **398**, 694-696.
- Wang, C. (2002) Atmospheric circulation cells associated with the El Niño-Southern Oscillation. *Journal of Climate* **15**, 399-419.
- Wanner, H., S. Brönnimann, C. Casty, D. Gyalistras, J. Luterbacher, C. Schmutz, D. B. Stephenson und E. Xoplaki (2001) North Atlantic Oscillation - Concepts and Studies. *Surveys in Geophysics* **22 (4)**, 321-381.
- Widmann, M. und S. Tett (2003) Simulating the climate of the last millennium. *Global Change Newsletter* **No. 56**, December 2003.
- Wiles, G., D'Arrigo, R., and Jacoby, G.C., 1999, Spring/Summer Gulf of Alaska Temperature Reconstructions. International Tree-Ring Data Bank. IGBP PAGES/World Data Center-A for Paleoclimatology, NOAA/NGDC Paleoclimatology Program, Boulder CO, USA., Data Contribution Series #1999-045.

