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## Použitá literatura a zdroje

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- Abbot, C. G., Fowle, F. E. (1908):** Radiation and terrestrial temperature. *Ann. Astrophys. Obs. Smithsonian Inst.* 2, 125–224.
- Alisov, B. P. (1954):** Die Klimate der Erde (The climates of the earth). Berlin: Deutscher Verlag der Wissenschaften. 277 s.
- Alvarez L. W., Alvarez W., Asaro F., Michel H. V. (1980):** Extraterrestrial cause for the Cretaceous–Tertiary extinction. *Science* 208(4448), 1095–1108.
- Anderson, J. G., Brune, W. H., Proffitt, M. H. (1989):** Ozone destruction by chlorine radicals within the Antarctic vortex: The spatial and temporal evolution of ClO-O<sub>3</sub> anti-correlation based on in situ ER-2 data. *J. Geophys. Res.* 94, 11465–11479.
- Bailyn, M. (1994):** A Survey of Thermodynamics. New York, NY: American Institute of Physics Press.
- Bednář, J. (2003):** Meteorologie: úvod do studia dějů v zemské atmosféře. Praha: Portál. 224 s.
- Berg, L. S. (1925):** Klimatischeskie poyasa zemli. *Izvestiya Geograficheskogo Instituta* 5, 21–47.
- Bergeron, T. (1928):** Über die dreidimensional veknupfende Wetteranalyse, Part 1: Prinzipelle Einführung in das Problem der Luftmassen-und Frontenbildung, *Geophysiks Publikationer* 5, 1–111.
- Bergeron, T. (1937):** On the physics of fronts. *Bulletin American Meteorological Society* 18, 265–275.
- Bergman, T. L., Lavine, A. S., Incropera, F. P., Dewitt, D. P. (2011):** Fundamentals of heat and mass transfer (7th ed.). Hoboken, NJ: Wiley.
- Bishop, S. E. (1884):** The equatorial smoke-stream from Krakatoa. *The Hawaiian Monthly* 1(5), 106–110.
- Bjerknes, J. (1919):** On the structure of moving cyclones. *Geophysiks Publikationer*, 1(1), 1–8.
- Bjerknes, J., Solberg, H. (1921):** Meteorological conditions for the formation of rain. *Geophysiks Publikationer*, 2(3), 1–60.
- Bjerknes, J., Solberg, H. (1922):** Life cycle of Cyclones and the Polar Front Theory of Atmospheric Circulation. *Geophysiks Publikationer* 3(1), 3–18.

- 
- Bradley, R. S. (1988):** The explosive volcanic eruption signal in northern hemisphere continental temperature records. *Climatic change* 12, 221–243.
- Brinkmann, R. T. (1969):** Dissociation of water vapor and evolution of oxygen in the terrestrial atmosphere. *Journal of Geophysical Research* 74(23), 5355–5368.
- Brown, H. (1949):** Rare gases and the formation of the Earth's atmosphere. In G. Kuiper (Ed.): *The Atmosphere of the Earth and Planets*. Chicago: Univ. Chicago Press, 258–266.
- Browning, K. A. (1986):** Conceptual models of precipitation systems. *Weather and Forecasting* 1(1), 23–41.
- Brunt, D. (1934):** *Physical and Dynamical Meteorology*. Cambridge: Cambridge University Press.
- Budretsky, A. B. (1984):** New absolute minimum of air temperature. *Bulletin of the Soviet Antarctic Expedition* 105.
- Carathéodory, C. (1909):** Untersuchungen über die Grundlagen der Thermodynamik. *Mathematische Annalen* 67(3), 355–386.
- Changnon, S. A., Bell, G. D. (2000):** El Niño 1997-98 The Climate Event of The Century. New York: Oxford University Press.
- Clark, P. U., Dyke, A. S., Shakun, J. D., Carlson, A. E., Clark, J., Wohlfarth, B., Mitrovica, J. X., Hostetler, S. W., McCabe, A. M. (2009):** The Last Glacial Maximum. *Science* 325, 710–714.
- Coleman, J. S. M., Law, K. T. (2015):** Meteorology. In Reference Module in Earth Systems and Environmental Sciences, Elsevier Inc.
- Court, A. (1949):** How hot is Death Valley? *Geographical Review* 39(2), 214–220.
- Courtney, J., Buchan, S., Cerveny, R. S., Bessemoulin, P., Peterson, T. C., Rubiera Torres, J. M., Beven, J., King, J., Trewhin, B., Rancourt, K. (2012):** Documentation and verification of the world extreme wind gust record:  $113.3 \text{ m s}^{-1}$  on Barrow Island Australia, during passage of tropical cyclone Olivia. *Australian Meteorological and Oceanographic Journal* 62(1), 1–9.
- Cowie, J. (2007):** Climate Change: Biological and Human Aspects. Cambridge, UK: Cambridge University Press, 487 s.
- Cox, A. N. (2000):** Allen's Astrophysical Quantities. New York: AIP Press (Springer-Verlag).
- Česká meteorologická společnost [online]:** Elektronický meteorologický slovník výkladový a terminologický (eMS) [cit 26. 03. 2021]. Dostupné z: <http://slovnik.cmes.cz>
- CzechGlobe [online]:** Úvod do metodiky – Klimatická změna v České Republice [cit 16. 02. 2022]. Dostupné z: <https://www.klimatickazmena.cz/cs/metodika/uvod-do-metodiky/>
- The Editors of Encyclopaedia Britannica [online]:** "Condensation nucleus" [cit 24.09.2021]. Dostupné z: <https://www.britannica.com/science/condensation-nucleus>.
- Dunnavan, G. M., Diercks, J. W. (1980):** An analysis of Supertyphoon Tip (October 1979). *Monthly Weather Review* 108(11), 1915–1923.
- Dines, W. H. (1917):** The heat balance of the atmosphere. *Q. J. R. Meteorol. Soc.* 43, 151–158.

- Dobson, G. M. B. (1968):** Forty years' research on atmospheric ozone at Oxford: A history. *Appl. Opt.* 7(3), 387–405
- Eddy, J. A. (1990):** The solar constant – An editorial. *Climatic Change* 5(3), 207–209.
- Eimern, J. (1971):** Wetter und Klimakunde. Stuttgart: E. Ulmer Verlag. 239 s.
- El Fadli, K. I., Cerveny, R. S., Burt, C. C., Eden, P., Parker, D., Brunet, M., Peterson, T. C., Mordacchini, G., Pelino, V., Bessemoulin, P., Stella, J. L., Driouech, F., M Abdel Wahab, M., Pace, M. B. (2013):** World Meteorological Organization Assessment of the Purported World Record 58 °C Temperature Extreme at El Azizia, Libya (13 September 1922). *Bulletin of the American Meteorological Society* 94, 199–204.
- Fabry, C., Buisson, H. (1913):** L'absorption de l'ultraviolet par l'ozone et la limite du spectre solaire. *J. Phys. Rad., Serie 5(3)*, 196–206.
- Fabry, C., Buisson, H. (1921):** Etude de l'extremité ultra-violette du spectre solaire. *J. Phys. Rad. Serie 6(2)*, 197–226.
- Fergus, G. (2014):** Temperature of Planet Earth – <https://commons.wikimedia.org/>, Public domain.
- Ferrel, W. (1856):** An essay on the winds and the currents of the oceans. Nashville Jour. Medicine and Surgery XI.
- Flohn, H. (1950):** Neue Anschauungen über die allgemeine Zirkulation der Atmosphäre und ihre klimatische Bedeutung. *Erdkunde* 4, 141–162.
- Fortey, R. (1999):** Life: A Natural History of the First Four Billion Years of Life on Earth. New York: Vintage.
- Fourier, J. B. J. (1822):** Théorie analytique de la chaleur. Paris: Firmin Didot.
- Fourier, J. B. J. (1824):** Remarques Generales sur les Temperatures Du Globe Terrestre et des Espaces Planetaires. *Annales de Chimie et de Physique* 27, 136–167.
- Frederick, M., Gallup, G. G. (2017):** The demise of dinosaurs and learned taste aversions: The biotic revenge hypothesis. *Ideas in Ecology and Evolution* 10(1), 47–54.
- Frisinger, H. H (1983):** History of meteorology to 1800. Boston, MA: American Meteorological Society.
- Fröhlich, C. (2013):** Solar Constant and Total Solar Irradiance Variations. In: Richter, C., Lincot, D., Gueymard, C.A. (eds): *Solar Energy*. New York, NY: Springer.
- Fujita, T. T. (1971):** Proposed Characterization of Tornadoes and Hurricanes by Area and Intensity. SMRP Research Paper Number 91.
- Fujita, T. T. (1985):** The Downburst, Microburst, and Macroburst. SMRP Research Paper Number 210.
- Geiger, R. (1954):** Landolt-Börnstein – Zahlenwerte und Funktionen aus Physik, Chemie, Astronomie, Geophysik und Technik, alte Serie Vol. 3, Ch. Klassifikation der Klimate nach W. Köppen. Berlin: Springer, 603–607.
- Geiger, R. (1961):** Das Klima der bodennahen Luftschicht. Braunschweig: F. Vieweg und Sohn.
- Giles, B. D. (1970):** Extremely high atmospheric pressures. *Weather*, 25(1), 19–24.

---

**Gray, D. M (1973):** Handbook on the Principles of Hydrology. Port Washington, New York: Water Information Center.

**Hackel, H. (2009):** Atlas oblaků. Praha: Academia. 190 s.

**Hadley G. (1735):** VI. Concerning the cause of the general trade-winds. Philosophical Transactions Royal Society, 3958–3962.

**Hayashi, C., Nakazawa, K., Mizuno, H. (1979):** Earth's melting due to the blanketing effect of the primordial dense atmosphere. Earth Planet Science Letters 43, 22–28.

**Hinrichs, G. (1878):** Iowa Weather Bulletin, Volume 1 Number 1. Iowa City, Iowa.

**Holland, H. D. (2006):** The oxygenation of the atmosphere and oceans. Philosophical Transactions of the Royal Society B 361, 903–915.

**Horník, S. (1986):** Fyzická geografie II. Praha: SPN. 319 s.

**Humphreys, W. J. (1909):** Vertical Temperature-Gradients of the Atmosphere, Especially in the Region of Upper Inversion. Astrophysical Journal 29, 14–32.

**Hurrell, J. W. (1995):** Decadal Trends in the North Atlantic Oscillation: Regional Temperatures and Precipitation. Science 269(5224), 676–679

**Hurrell, J. W. (2003):** The North Atlantic oscillation: climatic significance and environmental impact. Washington, DC: American Geophysical Union VIII. 279 s.

**ICAO (International Civil Aviation Organization) (2005):** Manual on low-level wind-shear and turbulence – Doc. 9817/AN 449. Montréal, Québec: International Civil Aviation Organization. ISBN 92-919-4609-5.

**IPCC (2021):** Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge, UK: Cambridge University Press.

**Iqbal, M. (1983):** An Introduction to Solar Radiation. Toronto, New York, London, Paris, San Diego, San Francisco, Sao Paulo, Sydney, Tokyo: Academic Press.

**Jennings, A. H. (1950):** World's greatest observed point rainfalls. Monthly Weather Review 78(1), 4–5.

**Johnson, M. R. (2020):** Meteorology. In Taub, L. (ed.): The Cambridge Companion to Ancient Greek and Roman Science. Cambridge: Cambridge University Press, 160–184.

**Kiehl, J. T., Trenberth, K. E., (1997):** Earth's Annual Global Mean Energy Budget. Bulletin of the American Meteorological Society 78(2), 197–208.

**Kopp, G., Lean, J. L. (2011):** A new, lower value of total solar irradiance: Evidence and climate significance. Geophysical Research Letters 38.

**Köppen, W. (1884):** Die Wärmezonen der Erde, nach der Dauer der heissen, gemässigten und kalten Zeit und nach der Wirkung der Wärme auf die organische Welt betrachtet. Meteorologische Zeitschrift 1, 215–226.

**Köppen, W. (1936):** Das geographische System der Klimate. Berlin, Germany: Gebrüder Borntraeger. 44 s.

**Kwan, A., Dudley, J., Lantz, E. (2002):** Who really discovered Snell's law? Physics World 15(4), 64 s.

**Lappa, M. (2009):** Thermal convection: patterns, evolution and stability. Chichester: Wiley.

**Le Treut, H., Somerville, R., Cubasch, U., Ding, Y., Mauritzen, C., Mokssit, A., Peterson, T., Prather, M. (2007):** Historical Overview of Climate Change Science. In Solomon, S., Qin, D., Manning, M., Chen, Z., Marquis, M., Averyt, K.B., Tignor, M., Miller, H.L. (eds.): Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change. United Kingdom: Cambridge University Press.

**Lide, D. R. (1996):** Handbook of Chemistry and Physics. Boca Raton, FL: CRC, 1996, 14–17.

**Liou, K. N. (2002):** An Introduction to Atmospheric Radiation Second Edition. Amsterdam: Academic Press. 608 s.

**Ložek, V. (1973):** Příroda ve čtvrtohorách. Academia, 372 s.

**Matthes, F. E. (1939):** Report of Committee on Glaciers, April 1939. Transactions, American Geophysical Union 20(4), 518–524.

**Manfredo, C., Marzoli, A., Aradi, L. E., Callegaro, S., Dal Corso, J., Newton, R. J., Mills, B. J. W., Wignall, P. B., Bartoli, O., Baker, D. R., Youbi, N., Remusat, L., Spiess, R., Szabó, C. (2020):** Deep CO<sub>2</sub> in the end-Triassic Central Atlantic Magmatic Province. Nature Communications 11(1670).

**McElroy, C. T., Fogal, P. F. (2008):** Ozone: From discovery to protection. Atmosphere-Ocean 46(1), 1–13.

**Milanković, M. (1941):** Kanon Der Erdbestrahlung Und Seine Anwendung Auf Das Eiszeitenproblem. Belgrade: [Mihaila Ćurčića].

**Montañez, I. P., Poulsen, C. J. (2013):** The Late Paleozoic Ice Age: An Evolving Paradigm. Annual Review of Earth and Planetary Sciences 41(1), 629–656.

**Moorhead, J. G. (1932):** The Near Infrared Absorption Spectrum of Methane. Physical Review 39(5), 788–795.

**Motyčka, V. (2005):** Vítr v Tatrách. Epos s.r.o., 126 s.

**Mudelsee, M., Bickert, T., Lear, C. H., Lohmann, G. (2014):** Cenozoic climate changes: A review based on time series analysis of marine benthic <sup>18</sup>O records. Reviews of Geophysics 52(3), 333–374.

**Munnecke, A., Calner, M., Harper, D. A. T., Servais, T. (2010):** Ordovician and Silurian sea-water chemistry, sea level, and climate: A synopsis. Palaeogeography, Palaeoclimatology, Palaeoecology 296(3–4), 389–413.

**Münster (2022):** Tornádo na jihu Moravy 24. 6. 2021. Meteorologické zprávy, roč. 75, č. 1, 14–24. ISSN 0026-1173.

**Munzar, J. (ed.) (1989):** Malý průvodce meteorologií. Praha: Mladá fronta. 248 s.

**Myers, D. R. (2012):** Solar Radiation for Solar Energy Utilization. In: Meyers, R. A. (eds) Encyclopedia of Sustainability Science and Technology. New York, NY: Springer.

**National Oceanic and Atmospheric Administration (1995):** Surface weather observations and reports, Federal Meteorological Handbook No. 1. 94 s.

---

**Netopil, R., Brázdil, R., Demek, J., Prošek, P. (1984):** Fyzická geografie. Praha: SPN. 272 s.

**Oppenheimer, C. (2003):** Climatic, environmental and human consequences of the largest known historic eruption: Tambora volcano (Indonesia) 1815. *Progress in Physical Geography* 27(2), 230–259.

**Paulhus, J.L.H. (1965):** Indian Ocean and Taiwan rainfalls set new records. *Monthly Weather Review* 93(5), 331–335.

**Pavlov, V. E., Fluteau, F., Latyshev, A. V., Fetisova, A. M., Elkins-Tanton, L. T., Black, B. A., Burgess, S. D., Veselovskiy, R. V. (2019):** Geomagnetic secular variations at the Permian-Triassic boundary and pulsed magmatism during eruption of the Siberian Traps. *Geochemistry, Geophysics, Geosystems* 20(2), 773-791.

**Peel, M., Finlayson, B. L., Mcmahon, T. A. (2007):** Update world map of Köppen-Geiger climate classification. *Hydrology and Earth System Science* 11(5), 1633–1644.

**Pejml, K. (1971):** Předpovídáme počasí. Praha: Státní zemědělské nakladatelství. 220 s.

**Perrot, P. (1998):** A to Z of Thermodynamics. Oxford: Oxford University Press.

**Piddington, J. H. (1964):** Geomagnetic storms, auroras and associated effects. *Space Science Reviews* 3, 724–780.

**Pouillet, C. (1838):** Mémoire sur la chaleur solaire, sur les pouvoirs rayonnants et absorbants de l'airatmosphérique, et sur la température de l'espace, Extrait des Comptes Rendus de d'Académie des Sciences, séance du 9 juillet 1838.

**Prošek, P., Rein, F. (1982):** Mikroklimatologie a mezní vrstva atmosféry. Praha: Státní pedagogické nakladatelství. 237 s.

**Quitt, E. (1971):** Klimatické oblasti Československa. Praha: Academia, Studia geographica 16. 73 s.

**Ross, W. D. (eds.) (1931):** The Works of Aristotle. Translated into English under the editorship. Oxford: Clarendon Press.

**Ruda, A. (2014):** Klimatologie a hydrogeografie pro učitele (Multimediální elektronický výukový materiál). Brno: Masarykova univerzita. Publikováno na Elportále, ISSN 1802-128X.

**Rýva, D. (2016):** Výskyt jevu Derecho na území ČR. *Meteorologické Zprávy* 69, 83–89.

**Saucier, W. J. (1955):** Principles of Meteorological Analysis. Chicago: The University of Chicago Press.

**Schmauss, A. (1928):** Singularitäten im jährlichen Witterungsverlauf von München. München: Deutsches Meteorologisches Jahrbuch.

**Schwabe, H. (1844):** Sonnen-Beobachtungen im Jahre 1843, *Astron. Nachr.* 21(495), 233–236.

**Smith, W. (1890):** A dictionary of Greek and Roman antiquities. London: J. Murray.

**Sobíšek, B., Munzar, J., Krška, K. (1993):** Meteorologický slovník výkladový a terminologický. Praha: Ministerstvo životního prostředí České republiky. 594 s. ISBN 80-85368-45-5.

**Stephens, G., Li, J., Wild, M., Clayson, C. A., Loeb, N., Kato, S., L'Ecuyer, T., Stackhouse Jr, P. W., Lebsack, M., Andrews, T., (2012):** An update on Earth's energy balance in light of the latest global observations. *Nature Geoscience* 5, 691–696.

- Stephens, G. L., O'Brien, D., Webster, P. J., Pilewski, P., Kato, S., Li, J.-L. (2015):** The albedo of Earth. *Reviews of Geophysics* 53(1), 141–163.
- Svejkovská, A., Brzezina, J. (2020):** Úvod a dějiny meteorologie a klimatologie. Meteorologie a klimatologie – Úvod a historie | ČHMÚ Brno [online]. Brno: ČHMÚ [cit. 2021-03-22]. Dostupné z: <https://chmibrno.org/blog/vzdelavani-1-1-meteorologie-a-klimatologie/>
- Štekl, J., Sokol, Z., Zacharov, P. (2000):** Denní a roční chod rychlosti větru v závislosti na nadmořské výšce nad územím České republiky. *Větrná energie* 7(2), 2–5.
- Tolasz, R. a kol. (2007):** Atlas podnebí Česka. Praha: ČHMÚ, Olomouc: UP Olomouc, 1. vydání. 256 s. ISBN 978-80-86690-26-1, ISBN 978-80244-1626-7.
- Trenberth, K. E. (1997):** The Definition of El Niño. *Bulletin of the American Meteorological Society* 78(12), 2771–2777.
- Trizna, M. (2004):** Klimageografia a hydrogeografia. Bratislava: Geo-grafika. 154 s. ISBN 978-80-968146-7-1.
- Vysoudil, M. (2013):** Základy fyzické geografie 1: Meteorologie a klimatologie. Olomouc: Univerzita Palackého v Olomouci, Přírodovědecká fakulta. 114 s.
- Weischet, W. (1977):** Einführung in die allgemeine Klimatologie. Stuttgart: B.G. Teubner. 256 s.
- Williams, R. (2012):** October, 1644: Torricelli Demonstrates the Existence of a Vacuum. *American Physical Society News* 21(9), 2 a 7.
- Willson, R. C., Mordvinov, A. V. (2003):** Secular total solar irradiance trend during solar cycles 21–23. *Geophysical Research Letters* 30(5), 1199.
- Wood, R. W. (1909):** XXIV. Note on the theory of the greenhouse. *Philosophical Magazine Series* 6(17:98), 319–320.
- World Meteorological Organization (2021):** About us | World Meteorological Organization [online]. World Meteorological Organization (WMO), [cit. 2021-03-22]. Dostupné z: <https://public.wmo.int/en/about-us>.
- World Meteorological Organization (2017):** Definitions, International Cloud Atlas [online]. World Meteorological Organization (WMO), Retrieved 30 March 2017. Dostupné z: <https://cloudatlas.wmo.int/en/clouds-definitions.html>.
- Yoshino, M. (1975):** Climate in a Small Area: An introduction to local meteorology. Tokyo: University of Tokyo Press.
- Zahnle, K., Schaefer, L., Fegley, B. (2010):** Earth's earliest atmospheres. *Cold Spring Harbor perspectives in biology* 2(10), a004895.
- Zell, H. (2015):** Earth's Upper Atmosphere. NASA. Retrieved 2017-02-20. Dostupné z: [https://www.nasa.gov/mission\\_pages/sunearth/science/mos-upper-atmosphere.html](https://www.nasa.gov/mission_pages/sunearth/science/mos-upper-atmosphere.html).