



PROFILE

Since 1986 I am working with CHMI as climatologist, in the period of 2003-2011 as Deputy Director. I am WMO expert for Climate Database Management System and for climate data. I am a coordinator for developing and using of Czech Climatological Database Application CLIDATA that is used in the CHMI since the year 2000. In cooperation with WMO the CLIDATA replaced the CLICOM in more than 30 national meteorological services around the world (Estonia, Latvia, Lithuania, Montenegro, Serbia, Tanzania, Ethiopia, Georgia, Ghana, Namibia, Nigeria, Dominican, Trinidad and Tobago, etc.). Since 2014 I am the IPCC Focal Point for Czech Republic. I am author/co-author of many scientific articles and publications and since 2012 chief editor of Czech Meteorological Bulletin.

CONTACT

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RADIM TOLASZ

Head of Climate Change Department
Czech Hydrometeorological Institute

EDUCATION AND QUALIFICATIONS

University of Jan Evangelista Purkyně in Brno, Czech Republic

2007 Ph.D. (Faculty of Science, Physical geography)
1988 RNDr. (Faculty of Science, Physical geography)
1983 – 1987 Faculty of Science, Physical geography (geography, cartography, climatology, meteorology, ecology)

WORK EXPERIENCE

Czech Hydrometeorological Institute

2012 – up to now head of Climate Change Department
2003 – 2011 Deputy Director for Meteorology and Climatology
1996 – 2003 head of Climatology Database Department
1991 – 1996 head of Meteorology and Climatology Department of the regional branch Ostrava
1986 – 1990 Meteorology and Climatology Department of the regional branch Ostrava

SKILLS

English language – working level
Russian language – basic knowledge
Climate data processing

COOPERATION

World Meteorological Organisation

2018 – 2020 Lead of Working Group on Climate Data Exchange
2009 – 2014 Member of Open Panel of CCI Experts, Expert Team on Climate Data Base Management Systems
2007 – 2009 Member of OPAG1 Expert Team for Climate Data Management including Metadata
2005 – 2007 Lead of OPAG1 Expert Team for Climate Data Management including Metadata
2001 – 2005 Member of OPAG1 Expert team for Climate Data Management

Intergovernmental Panel on Climate Change

since 2014 Focal Point for Czech Republic

Group of Earth of Observations

2011 – GEO Principal for Czech Republic

PROJECTS

Czech Development Agency

2003 – 2004 Installation and user training for CLIDATA at Ethiopia and Tanzania

2015 Assessment of NMHS of Georgia (Modernization of Hydrometeorological Services in Georgia)

Database Trainings

CLICOM trainings (UNDP project) in Macedonia (1997), Moldova (1998), African countries (ACMAD) in Niger (1999)

CLIDATA trainings in Macedonia (2000), Ghana (2000), Lithuania (2001), Latvia (2001), Caribbean countries (2002), African countries in AGRHYMET, Niger (2003), Dominican (2005), Bosnia (2005), Nigeria (2011), Tanzania (2012), Georgia (2014, 2016, 2018)

EU FP5

IST-2000-28345, 2001 – 2004, EGERIS – European Generic Emergency Response Information System (researcher)

GA CR, Czech Science Foundation

205/01/1067, 2001 – 2003, Meteorological extremes and their effects in the Czech lands since the 16th century (researcher)

205/05/0858, 2005 – 2007, Temporal and spatial variability of the climate of the Czech Republic according to daily visual weather records and instrumental measurements (researcher)

205/06/1037, 2006 – 2008, Use of geoinformation technologies for refinement of precipitation-runoff relations (researcher)

103/08/0589, 2008 – 2010, Probabilistic application of geostatistical methods of processing snow cover characteristics to ensure reliable load-bearing structures (researcher)

P209/10/0309, 2010 – 2013, Influence of historical climatic and hydrometeorological extremes on slope and fluvial processes in the area of the Western Beskydy Mountains and their forefields (researcher)

P209/15/11805S, 2015 – 2017, Storms in the Czech lands over the last 500 years (researcher)

17-100026S, 2017-2019, Drought episodes in the Czech Republic (researcher)

Ministry of Environment

SF/740/1/01, 2001 – 2002, Climate change and climatic fluctuations - normals of selected climatological elements in the Czech Republic (researcher)

SF/740/2/03, 2003 – 2005, Climate Atlas of Czechia (principal researcher)

SP114H6/35/07, 2007-2010, Educational model of e-learning for lifelong learning in selected areas of the environment (e-klima) (researcher)

SP/1A6/108/07, 2007-2011, Refinement of existing estimates of climate change impacts in the water, agriculture and forestry sectors and proposals for adaptation measures (researcher)

TA CR, Technology Agency of the Czech Republic

SS02030040, 2020-2026, PERUN- Prediction, Evaluation and Research for Understanding National sensitivity and impacts of drought and climate change for Czechia (principal researcher)

ACADEMY AND UNIVERSITY ACTIVITIES

since 1988	Ostrava University, external teacher
2004 – 2007	Member of Scientific Board of Institute of Atmospheric Physics AS CR (ÚFA AV ČR)
2007 – 2017	Member of Supervisory Board of Institute of Atmospheric Physics AS CR (ÚFA AV ČR)
2012 – 2013	Climatologist in Global Change Research Centre, AS CR (CVGZ AV ČR)
since 2012	Chief Editor of Meteorological Bulletin
since 2017	Member of Editorial Board of Meteorologický časopis / Meteorological Journal (Slovakia)

SELECTED PUBLICATION

51 original scientific papers (3 monography, 45 articles, 1 report and 2 CD presentations)

- Tolasz, R. (1996): Preliminary analysis of 100-years time series of precipitation in Hodslavice (Novy Jicin district). Acta Univ. Palacki. Olomouc, Fac. Rer. Nat., Geographica, 34, s. 21-28.
- Coufal, L., Tolasz, R. (1998): A climate data processing, control, information and archiving system. World Climate Programme, Data and Monitoring, WMO-TD No. 902, WMO, Geneva, 11 s.
- Coufal, L., Tolasz, R. (2000): Climatological Database Creation Principles and their Implementation Way. World Climate program, Data and Monitoring, WMO, Geneva.
- Chromá, K., Brázdil, R., Tolasz, R.: Spatio-Temporal Variability of Hailstorms for Moravia and Silesia in the Summer Half-Year of the Period 1961 – 2000 (2005). Meteorologický časopis – Meteorological Journal, 8(2): 65 – 74.
- Tolasz, R. (editor) (2007): Climate Atlas of Czechia. Praha and Olomouc, 256 pp., ISBN 978-80-86690-26-1.
- Brázdil, R., Chromá, K., Dobrovolný, P., Tolasz, R. (2009): Climate fluctuations in the Czech Republic during the period 1961-2005. International Journal of Climatology, 29, pp. 223-242, doi: 10.1002/joc.1718.
- Možný, M., Tolasz, R., Nekovář, J., Sparks, T., Trnka, M., Žalud, Z. (2009): The impact of climate change on the yield and quality of Saaz hops in the Czech Republic. Agric. Forest Meteorol., 149, pp. 913-919, doi: 10.1016/j.agrformet.2009.02.006.
- Tolasz, R. (2009): Database Processing of Climatological Data. Praha, Czech Hydrometeorological Institute, 66 pp., ISBN 978-80-86690-68-1.
- Šilhán, K., Brázdil, R., Pánek, T. Dobrovolný, P., Kašičková, L., Tolasz, R., Turský, O., Václavek, M. (2011): Evaluation of meteorological controls of reconstructed rockfall activity in the Czech Flysch Carpathians. Earth Surface Processes and Landforms, Vol. 36, Issue 10, ISSN: 1096-9837, DOI: 10.1002/esp.2211.

- Brázdil, R., Šilhán, K., Pánek, T., Dobrovolný, P., Kašičková, L., Tolasz, R. (2012): The influence of meteorological factors on rockfall in the Moravskoslezské Beskydy Mts., *Geografie*, 1, 117, pp. 1–20.
- Hájková, L., Voženílek, V., Tolasz, R. (2012): Atlas fenologických poměrů Česka/Atlas of the Phenological Conditions in Czechia. ČHMÚ Praha, UP Olomouc, ISBN 978-80-244-3005-8.
- Štěpánek, P., Zahradníček, P., Brázdil, R., Tolasz, R. (2012): Metodologie kontroly a homogenizace časových řad v klimatologii. ČHMÚ, Praha, 118 s., ISBN 978-80-86690-97-1.
- Brázdil, R., Šilhán, K., Pánek, T., Dobrovolný, P., Kašičková, L., Tolasz, R. (2012): The influence of meteorological factors on rockfall in the Moravskoslezské Beskydy Mts., *Geografie*, 1, 117, pp. 1–20.
- Tichavský, R., Šilhán, K., Tolasz, R. (2014): Origin, Triggers and Spatio-Temporal Variability of Debris Flows in High-Gradient Channels (A Case Study from the Culmination Part of the Moravskoslezské Beskydy Mts.; Czech Republic). *Carpathian Journal of Earth and Environmental Sciences*, Vol. 9, No. 3, p. 5 – 16, ISSN 1842-4090.
- Bannerman, B., Stuber, D., Tolasz, R., Sebbari, R., Palmer, S., Xiong, A., Flannery, J. (2014): Climate Data Management System Specifications. WMO-No. 1131, World Meteorological Organization, Geneva, ISBN 978-92-63-11131-9.
- Spinoni, J., Szalai, S., Szentimrey, T., Lakatos, M., Bihari, Z., Nagy, A., Németh, Á., Kovács, T., Mihic, D., Dacic, M., Petrovic, P., Kržič, A., Hiebl, J., Auer, I., Milkovic, J., Štěpánek, P., Zahradníček, P., Kilar, P., Limanowka, D., Pyrc, R., Cheval, S., Birsan, M., Dumitrescu, A., Deak, G., Matei, M., Antolovic, I., Nejedlík, P., Štastný, P., Kajaba, P., Bochníček, O., Galo, D., Mikulová, K., Nabyvanets, Y., Skrynyk, O., Krakovska, S., Gnatiuk, N., Tolasz, R., Antofie, T., Vogt, J. (2014): Climate of the Carpathian Region in the period 1961–2010: climatologies and trends of 10 variables. *International Journal of Climatology*, 34. doi: 10.1002/joc.4059.
- Tichavský, R., Šilhán, K., Tolasz, R. (2016): Tree ring-based chronology of hydro-geomorphic processes as a fundament for identification of hydro-meteorological triggers in the Hrubý Jeseník Mountains (Central Europe). *Sci Total Environ*, doi: 10.1016/j.scitotenv.2016.12.073.
- Brázdil, R., Hostýnek, J., Řezníčková, L., Zahradníček, P., Tolasz, R., Dobrovolný, P., Štěpánek, P. (2016): The variability of maximum wind gusts in the Czech Republic between 1961 and 2014. *International Journal of Climatology*, doi: 10.1002/joc.4827.
- Brázdil, R., Zahradníček, P., Řezníčková, L., Tolasz, R., Štěpánek, P., Dobrovolný, P. (2017): Spatial and temporal variability of mean daily wind speeds in the Czech Republic, 1961–2015. *Climate Research*, Vol. 72: 197–216, doi: 10.3354/cr01464
- Brázdil, R., Stuckic, P., Szabó, P., Řezníčková, L., Dolák, L., Dobrovolný, P., Tolasz, R., Kotyza, O., Chromá, K., Suchánková, S. (2017). Windstorms and forest disturbances in the Czech Lands: 1801–2015. *Agricultural and Forest Meteorology*, Volumes 250–251, pp. 47–63, doi: 10.1016/j.agrformet.2017.11.036.
- Brázdil, R., Valík, A., Zahradníček, P., Řezníčková, L., Tolasz, R., Možný, M. (2017). Wind-stilling in the light of wind speed measurements: the Czech experience. *Climate Research*, Vol. 74: 131–143, doi: 10.3354/cr01492.
- Brázdil, R., Stuckic, P., Szabó, P., Řezníčková, L., Dolák, L., Dobrovolný, P., Tolasz, R., Kotyza, O., Chromá, K., Suchánková, S. (2018). Windstorms and forest disturbances in the Czech Lands: 1801–2015. *Agricultural and Forest Meteorology* 250–251 (2018) 47–63, doi: 10.1016/j.agrformet.2017.11.036
- Tolasz, R. (2018). On-Line QC and Spatial Analysis of Meteorological Data. In: 7th International Conference on Cartography and GIS. Proceedings, Vol. 1 and Vol. 2, 18–23 June 2018, Sozopol, Bulgaria, pp. 369–375, ISSN: 1314-0604.
- Tichavský, R., Kluzová, O., Břežný, M., Ondráčková, L., Krpec, P., Tolasz, R., Šilhán, K. (2018). Increased gully activity induced by short-term human interventions –Dendrogeomorphic research based on exposed tree roots. *Applied Geography* 98 (2018) 66–77, doi: 10.1016/j.apgeog.2018.07.008
- Šilhán, K., Tichavský, R., Fabiánová, A., Chalupa, V., Chalupová, O., Škarpich, V., Tolasz, R. (2019). Understanding complex slope deformation through tree-ring analyses. *Science of the Total Environment*, Vol. 665, pp. 1083–1094, doi: 10.1016/j.scitotenv.2019.02.195.
- Valík, A., Brázdil, R., Zahradníček, P., Tolasz, R., Možný, M., Řezníčková, L. (2019). Measurements of sunshine duration by automatic sensors and their effects on the homogeneity of long-term series in the Czech Republic. *Clim Res*, Vol. 78: 83–101. ISSN 0936-577X. doi: 10.3354/cr01564.
- Tichavský, R., Ballesteros-Cánovas, J. A., Šilhán, K., Tolasz, R., Stoffel, M. (2019). Dry Spells and Extreme Precipitation are The Main Trigger of Landslides in Central Europe. *Sci Rep.* 9, 14560. doi: 10.1038/s41598-019-51148-2.
- Valík, A., Brázdil, R., Zahradníček, P., Tolasz, R., Fiala, R. (2020). Precipitation measurements by manual and automatic rain gauges and their influence on homogeneity of long-term precipitation series. *International Journal of Climatology*, XX, pp. xxx–xxxx, doi: 10.1002/joc.6862.
- Tichavský, R., Fabiánová, A., Tolasz, R. (2020). Intra-annual dendrogeomorphic dating and climate linkages of flood events in headwaters of central Europe. *Science of the Total Environment*, Vol. XXX, pp. xxx–xxxx, doi: 10.1016/j.scitotenv.2020.142953.