

RNDr. Martin Setvák, CSc.

Born in 1958 in Prague, Czech Republic, high school (Gymnázium Praha-4, Budějovická 680) finished in 1977. From the Faculty of Mathematics and Physics of the Charles University (MFF UK) graduated in meteorology and climatology in 1983, *RNDr.* degree achieved there in 1985, *CSc.* degree in 1994.

Since 1983 he has been employed in satellite department of the Czech Hydrometeorological Institute (CHMI, national meteorological service of the Czech Republic); however his first contract with CHMI dates already to 1981 – 1983, when working there as a student of meteorology, gaining his first experience in satellite data processing and visualization. His main tasks in CHMI are processing, visualization and interpretation of weather satellite data. Since 1989 till May 2019 he acted as Head of CHMI's Satellite Department; between 2015 – 2017 head of the CHMI Remote Sensing Branch. His main professional interests are exploitation of satellite data for studies of tops of deep convective storms – including 3.8 μm cloud-top reflectivity, above-anvil plumes, cold rings, and gravity waves generated by storms; besides these also various image enhancement methods, including sandwich image products. Some of these were also the main topic of a project *Relation Between the AVHRR Channel 3 Cloud Top Reflectivity and Severity of Storms* of the U.S./Czech Science and Technology Program, carried out in 1994 - 1997 in collaboration with the NOAA National Severe Storms Laboratory (NSSL) in Norman, Oklahoma, USA.

In addition to the satellite observations of deep convective clouds, his professional interests were also aimed at general documentation of severe convective storms, including tornado documentation in the Czech Republic (namely between 1995 – 2010). He acted as principle co-investigator (for the CHMI side, in collaboration with the Institute of Atmospheric Physics) in several projects funded by the Grant Agency of the Czech Republic: in the years 2000-2002 project *Severe Convective Phenomena in the Territory of the Czech Republic*, in 2004-2006 project *Identification and Prediction of Supercell and Mesoscale Convective Systems within the Czech Republic*, and in 2007-2011 project *Exploitation of Remote Sensing Means for Modeling and Monitoring of Convective Storms*.

Over the last 25 years he has been closely collaborating with EUMETSAT. He was involved in the formal processes of negotiating the Czech Republic's *Cooperating State* (2005-2010) and *Member State* (since 2010) memberships in EUMETSAT. Presently he participates as a Delegate in various EUMETSAT formal bodies – EUMETSAT *Council Meetings* and in its various supporting working groups (STG-SWG, STG-OPSWG, and STG). Since 2007 he has been active in the EUMETSAT's *Convection Working Group* (CWG), in the period 2010-2016 he was co-chairing this group. He was the principal organizer of the *2002 European Conference on Severe Storms* (ECSS2002, 26 - 30 August 2002, Průhonice, Czech Republic) and the main local co-organizer of the *2004 EUMETSAT Meteorological Satellite Conference* (31 May - 4 June 2004, Prague, CZ). Also, he initiated several international workshops, co-organized together with EUMETSAT in the Czech Republic (2002 Průhonice, 2005 Mikulov, 2010, 2012, 2015 and 2024 Praha). Since 2001 he has been acting as lecturer at many international training workshops and courses, organized by EUMETSAT. Presently he is involved in various EUMETSAT activities aimed at preparations for the Meteosat Third Generation (MTG) satellites.

Since 1992/93 he has been giving classes on *Remote sensing observations and detection methods in meteorology* at the Department of Atmospheric Physics of the Charles University in Praha. He is also active in popularization of meteorology, among other giving talks or lectures focused at satellite meteorology and various atmospheric phenomena, to general public, amateur meteorologists and astronomers, and other. From 01 Jan 2022 he is retired, but still working as part-time employee of CHMI Satellite Department. In 2023, he received (together with Pao K. Wang and Kristopher Bedka) the ESSL's [Nikolai Dotzek Award](#).

His main private interest is time-lapse photography of clouds and other atmospheric phenomena.

Personal website: <http://www.setvak.cz/setvak-eng.html>