



ILMATIETEEN LAITOS  
METEOROLOGISKA INSTITUTET  
FINNISH METEOROLOGICAL INSTITUTE

**Prof. Jouni Pulliainen, Director of the Arctic Research and Arctic Space Centre of the Finnish Meteorological Institute (FMI)**



**Biography**

Jouni Pulliainen received the M.Sc., the Licentiate in Technology degree and the Doctor of Science in Technology degrees from the Helsinki University of Technology (TKK), Faculty of Electrical Engineering, in 1988, 1991 and 1994, respectively. From 2001 to 2006 he was a professor of space technology at TKK, specializing in remote sensing. He is currently a research professor at the Finnish Meteorological Institute (FMI) and Head of Arctic Research of FMI (FMI-ARC). FMI-ARC currently employs over 40 researchers and technical staff members, half of them located in Sodankylä, northern Finland, where the unit is responsible for the main experimental research infrastructure of FMI. FMI-ARC carries out research related to climate change at the high latitudes, meteorology, and to Earth Observation (EO) science, CAL-VAL and algorithm development. Additionally, FMI-ARC is responsible for the EO satellite ground segment operations in Sodankylä encompassing the National Satellite Data Centre (NSDC) as a co-operation of different research institutes and authorities. Pulliainen's task in FMI has been the development of NSDC and Sodankylä research infrastructure, currently a globally unique super-site for the integrated sustained measurement of soil-vegetation-atmosphere interaction at the high latitudes.

Pulliainen's research interests include modeling and inversion algorithms in remote sensing, remote sensing data assimilation and application development for the needs of climate change studies, hydrology and weather prediction. Recently, his work has focused on the active and passive remote sensing of environmental processes of the cryosphere and boreal forest zone applying EO data (from regional applications to global scale). Dr. Pulliainen has been PI or project manager for dozens of national and international research projects (e.g. ESA and European Union contracts). He has authored over 300 scientific papers and technical reports in the field of remote sensing (over 100 in peer-reviewed international journals). Memberships in scientific committees and organizations include ESA Advisory Committee on Education (2001-2007); ESA CoreH2O Earth Explorer candidate Mission Advisory Group (2007-2013); National Committee of COSPAR (2010 onwards); delegate of Finland to SAON board (2011 onwards); member of ESA Earth Science Advisory Committee, ESAC (2013-2017); delegate of Finland to ESA Earth Observation Program Board, PB-EO (2017 onwards).