

## WORKSHOP PROGRAMME



Silver Partner GEOMETOC



Specialized Partners



Czech Hydrometeorological Institute

Prague Airport

Air Navigation Services

Endorsed by



Military Hydrometeorological Service

Military Geographical Service



Civil Aviation Authority

University of Defence



Military Geographic and Hydrometeorology Office

National Security Authority



Land Survey Office

Czech Association of Geoinformation



Czech Television

Research Institute of Geodesy, Topography and Cartography

**09:00 - 17:00**      **Registration**

**12:45 - 13:15**      **Poster Sessions**

**13:30 - 14:20**      **Workshop Opening and Welcome Speeches**

**Introductory Remarks and Welcome Speech** - COL Jan CÍREK - GEOMETOC Chairman; Chief of Hydrometeorological Service, General Staff, Czech Armed Forces, CZE

**Welcome Speech** - Mr. Kamil RUDOLECKÝ - Deputy Minister of Transport, CZE

**Welcome Speech** - Mr. Jaroslav ŠMÍD - Deputy Director, National Security Authority, CZE

**Welcome Speech** - Mr. Václav DVOŘÁK - Director, Czech Hydrometeorological Institute, CZE

**14:20 - 17:00**      **DESIGNATED GEOSPATIAL INFORMATION FOR STATE SECURITY FORCES AND ORGANIZATIONS**

**Moderated by:** Mr. Václav MISÍK - Deputy Chief of Cabinet, Deputy Chief of International Relations National Security Authority, CZE

**14:20 - 14:30**      **Introductory Remarks** - COL (Ret.) Václav TALHOFER - Vice-chairman GEOMETOC, Department of Military Geography and Meteorology, University of Defence, CZE

**14:30 - 14:50**      **Selected Challenges and Trends in the Field of Geoinformatics**  
Mr. Wolfgang REINHARDT - University of the Bundeswehr, Muenchen, Chair of Geoinformatics, DEU

**14:50 - 15:10**      **Civil-military Cooperation in Geospatial Information in the Czech Republic**  
Mr. Karel BRÁZDIL - Director of Land Survey Office, CZE

**15:10 - 15:30**      **Coffee Break & Networking**

**15:30 - 15:50**      **Spatial Data Integration and Multidimensional Databases for Czech Crime Prevention**  
Mr. Jiří HORÁK - Czech Association for Geoinformation (CAGI), Vice-President; VŠB - Technical University of Ostrava, CZE

**15:50 - 16:10**      **Vector Geospatial Databases in the Czech Armed Forces**  
MAJ Jan MATULA - Standardization Coordinator, Office of Military Geography and Hydrometeorology, CZE

**16:10 - 16:30**      **Cloud Based Geospatial Exploitation**  
Silver Partner presentation  
Stand No. 454



**16:30 - 16:50**      **Avalanche Risk Assessment: A Case Study of Gyong Sector Siachen Pakistan**  
Mr. Hamid ASHRAF - School of Mining Engineering, University of the Witwatersrand, Johannesburg, PAK

**16:50 - 17:00**      **Session Closing Remarks** - COL (Ret.) Václav TALHOFER - Vice-chairman GEOMETOC, Department of Military Geography and Meteorology, University of Defence, CZE

08:30 - 16:45 Registration

09:00 - 09:15 Poster Sessions

## 09:30 - 11:50 GEOSPATIAL SUPPORT TO NATIONAL DEFENCE AND CRISIS MANAGEMENT

**Moderated by:** Mr. Václav MISÍK - Deputy Chief of Cabinet, Deputy Chief of International Relations National Security Authority, CZE

09:30 - 09:40 **Introductory Remarks** - COL Vladimír KOVAŘÍK - Vice-chairman GEOMETOC, Head of Department of Military Geography and Meteorology, University of Defence, CZE

09:40 - 10:00 **The Geospatial Services of the EU Satellite Centre to Support the EU External Action in the CFSP/ESDP Field**  
Mr. Pascal LEGAI - Director of the European Union Satellite Centre, EU

10:00 - 10:20 **Specifics of the Thematic Map Production at a Strategic Command Level**  
COL Vladimír KOVAŘÍK - The Head of the Department of Military Geography and Meteorology, University of Defence, CZE

10:20 - 10:40 **Enhanced Disaster Preparedness by Multi-Actor Cross-Organizational Information Infrastructures**  
Mr. Horst KREMERS - Chairman CODATA German National Committee for the Committee on Data for Science and Technology of ICSU, DEU

10:40 - 11:00 Coffee Break & Networking

11:00 - 11:20 **Model of Cross-Country Movement Verification: Case Study**  
COL (Ret.) Václav TALHOFER - Department of Military Geography and Meteorology, University of Defence, CZE

11:20 - 11:40 **Flash Flood Risk Assessment Using Weather Radar**  
Mr. Petr RAPANT - Institute of Geoinformatics, Faculty of Mining and Geology, VŠB - Technical University of Ostrava, CZE

11:40 - 11:50 **Session Closing Remarks** - COL Vladimír KOVAŘÍK - Vice-chairman GEOMETOC; Head of Department of Military Geography and Meteorology, University of Defence, CZE

11:50 - 12:50 Lunch Break & Networking

12:20 - 12:40 Poster Sessions

11:50 - 12:50 Lunch Break & Networking

12:20 - 12:40 Poster Sessions

## 12:50 - 16:45 MODERN TRENDS IN THE HYDROLOGICAL AND METEOROLOGICAL SUPPORT OF ARMED FORCES AND GOVERNMENT PERFORMANCE

**Moderated by:** Mr. Václav MIŠÍK - Deputy Chief of Cabinet, Deputy Chief of International Relations National Security Authority, CZE

12:50 - 13:00 **Introductory Remarks** - LTC Josef NOVOTNÝ - Vice-chairman GEOMETOC, Deputy Head of Department of Military Geography and Meteorology, University of Defence, CZE

13:00 - 13:20 **The Necessary Cooperation on Safety between Civil and Military Aviation**  
MG (ret) Denis KOEHL - Senior Military Advisor, EASA

13:20 - 13:40 **Mobile Hydrometeorological Support of Foreign Deployment**  
1LT Helena HOLEČKOVÁ - Officer and Synoptist at Hydrometeorological Mobile Station, Office of Military Geography and Hydrometeorology, CZE

13:40 - 14:00 **The Importance of Accurate Measurement in Soundings Operations**  
Industry presentation - Mr. Aki LIJLA - Regional Manager, VAISALA  
Stand No. 304

**VAISALA**

14:00 - 14:20 **Teaching of Meteorology at the University of Defense**  
LTC Josef NOVOTNÝ - Vice-chairman GEOMETOC, Deputy Head of Department of Military Geography and Meteorology, University of Defence, CZE

14:20 - 14:40 **Weather Phenomena Warning in the Czech Television from 1997 to Nowadays**  
Ms. Tařána MÍKOVÁ - Head of the Weather Department, Czech Television, CZE

14:40 - 15:00 Coffee Break & Networking

15:00 - 15:15 **Understanding the Flood Risk: Has 20 Years of Experience Led to Turn from Disaster Management to Culture of Risk Management, Prevention and Preparedness?**  
Mr. Jan DAŇHELKA - Deputy Director, Head of Hydrology Division, Czech Hydrometeorological Institute, CZE

15:15 - 15:30 **Seamless Weather Forecast by the ALADIN System**  
Mrs. Radmila BROŽKOVÁ - Head of Numerical Weather Prediction Department of the Czech Hydrometeorological Institute, CZE

15:30 - 15:45 **CZRAD - the Modern Dual Polarization Czech Weather Radar Network**  
Mr. Petr NOVÁK - Head of Radar Department, Czech Hydrometeorological Institute, CZE

15:45 - 15:55 Break

15:55 - 16:10 **Satellite Data in the Czech Hydrometeorological Institute**  
Mr. Jindřich ŠŤÁSTKA - Satellite Department, Czech Hydrometeorological Institute, CZE

16:10 - 16:25 **Integrated Warning Service System (IWSS) at Czech Hydrometeorological Institute**  
Mr. Marjan SANDEV - Head of Central Forecasting Office, Czech Hydrometeorological Institute, CZE

16:25 - 16:35 **Panel Discussion**  
LTC Josef NOVOTNÝ - Vice-chairman GEOMETOC, Deputy Head of Department of Military Geography and Meteorology, University of Defence, CZE  
Mr. Radim TOLASZ - Head of Climate Change Department, Czech Hydrometeorological Institute, CZE

16:35 - 16:45 **Session Closing Remarks** - LTC Josef NOVOTNÝ - Vice-chairman GEOMETOC; Deputy Head of Department of Military Geography and Meteorology, University of Defence, CZE

08:30 - 12:50 **Registration**

08:45 - 09:15 **Poster Sessions**

## 09:30 - 12:50 GLOBAL NAVIGATION SATELLITE SYSTEMS (GNSS) FUTURE CHALLENGES AND OPPORTUNITIES

**Moderated by:** Mr. Václav MISÍK - Deputy Chief of Cabinet, Deputy Chief of International Relations National Security Authority, CZE

09:30 - 09:40 **Introductory Remarks** - Mr. Radovan KLÍMA - GEOMETOC Vice-chairman, Competent PRS Authority, National Security Authority, CZE

09:40 - 10:00 **Facing the New Era of Widespread Attacks on GNSS**  
Mr. Tomáš ROSA - External Consultant to National Security Authority, CZE

10:00 - 10:20 **GNSS Vulnerabilities and Potential Solutions**  
Mr. Mark DUMVILLE - General Manager, Nottingham Scientific Ltd., GBR

10:20 - 10:40 **Using Multiple GNSS Constellations in Satellite Navigation**  
MAJ Jiří HUBIČKA - Chief of GNSS Department, Office of Military Geography and Hydrometeorology, CZE

10:40 - 11:00 **Coffee Break & Networking**

11:00 - 11:20 **Radio Position Determination – Satellite Methods and Opportunity Signals**  
Prof. František VEJRAŽKA - Faculty of Electrical Engineering , Czech Technical University in Prague, CZE

11:20 - 11:40 **GPS PPS and GALILEO PRS**  
Mr. Miroslav KURIDZA - GNSS / GALILEO Advisor (DE MoD Sub-structure), DEU

11:40 - 12:00 **Implementation of the Galileo Public Regulated Service in the Czech Republic**  
Mr. Radovan KLÍMA - GEOMETOC Vice-chairman; Competent PRS Authority, National Security Authority, CZE

12:00 - 12:20 **17 Years of Precise GNSS Tropospheric Products and Services from Geodetic Observatory Pecný**  
Mr. Jan DOUŠA - Geodetic Observatory Pecný of the Research Institute of Geodesy, Topography and Cartography, CZE  
Mr. Pavel VÁCLAVOVIC - Geodetic Observatory Pecný of the Research Institute of Geodesy, Topography and Cartography, CZE

12:20 - 12:40 **Implementation of GNSS Technology to Practical Geodesy - Coordinate System S-JTSK/05**  
Prof. Jan KOSTELECKÝ - Faculty of Mining and Geology, VŠB Technical University of Ostrava, CZE  
Mr. Karel RADĚJ - Director of the Research Institute of Geodesy, Topography and Cartography, CZE

12:40 - 12:45 **Session Closing Remarks** - Mr. Radovan KLÍMA - GEOMETOC Vice-chairman, Competent PRS Authority, National Security Authority, CZE

12:45 - 12:50 **Workshop Closing Remarks** - COL Jan CÍREK - GEOMETOC Chairman; Chief of Hydrometeorological Service, General Staff, Czech Armed Forces, CZE

12:50 - 13:30 **Lunch & Networking**

*Designated time for a presentation includes time for questions from the audience.  
The order of speakers and timings may be changed.*

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