

**DALYVAVIMO
COST veikloje ES1206 - GNSS4SWEC**

ATASKAITA

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COST - ES1206

Advanced Global Navigation Satellite Systems tropospheric products for monitoring severe weather events and climate (GNSS4SWEC)

Pasaulinės palydovinės navigacijos sistemų priežemio produktai, skirti ekstremalių meteorologinių reiškinių ir klimato kaitos stebėsenai

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2016 m. kovo 8-10 d., Reikjavikas, Islandija
COST ES 1206 konferencija, valdybos susirinkimas

Susitikimų metu aptariami klausimai susiję su COST veiklos uždavinių siekiu stiprinti esamas ir kuriant naujas antžemines multi-GNSS atmosferos priežemio matavimo, operatyvaus monitoringo sistemas, gaunant ir dalinantis kokybiška informacija apie naujausius klimato kaitos vertinimo indikatorius, metodus, jų integravimą į atmosferos procesų modeliavimą.

Valdymo komiteto posėdyje svarstyta:

- veiklos biudžeto atsikaitimai, planavimas,
- darbo grupių ataskaitų ruošimas,
- sekančių valdymo komiteto veiklos posėdžių bei darbo grupių (taip pat pogrupių) susitikimų planavimas,
- trumpalaikių mokslinių stažuočių mokymų ir seminarų (Potsdame, 2016) organizavimas ir kiti klausimai.
- Pristatyta nacionalinė ataskaita

Nacionalinė ataskaita valdybos susirinkime LT dalyvavimo COST ES 1206 veikloje pristatyta kartu su Vilniaus universiteto Gamtos mokslų fakulteto Hidrologijos ir meteorologijos katedros atstovais, COST veiklos valdymo komiteto nariais doc. dr. Gintautu Stankūnavičiumi ir prof. dr. Egidijumi Rimkumi.

Priededama programma:
2016m. kovo 8-10 d., Reikjavikas, Islandija

ES1206 Workshop Programme

WG1 Sessions, Key-note talks and Poster Presentations (8th of March, 09:00-18:00)

Session 1: Invited Speakers plus WG1 Oral Session

08:30	Registration	
09:00	Welcome and Overview	J. Jones
09:15	Past and present of the GPS/GNSS Meteorology in Japan	Y. Shoji et al. (solicited)
09:45	Reanalysis and the ERA-CLIM2 Project	D. Schepers (solicited)
10:15	Numerical Weather Prediction Based Troposphere Correction Service for Real Time Precise Point Positioning	L. Yang et al.
10:30	Coffee Break	

Session 2: WG1 Oral Session

11:00	On troposphere delay stochastic modelling in precise real-time GNSS applications	T. Hadas et al.
11:15	Development of troposphere augmentation corrections and their use in GNSS positioning	J. Douša et al.
11:30	Station specific NWM based tropospheric parameters for the Benchmark campaign	F. Zus et al.
11:45	Simulations of delays and gradients: test of improvements and visualization tools in the frame of the Benchmark campaign	H. Brenot et al.
12:00	Global model for the conversion of ZWD to IWV	S. Rozsa et al.
12:15	Optimizing high-resolution troposphere estimates using PPP method and Benchmark data set	P. Václavovic et al.

Session 3: WG1 Oral Session

14:00	Near Real-Time Zenith Total Delay Estimations in TURKEY	G. Gurbuz et al.
14:15	Acquisition of PWV from TUSAGA-Active stations in the north west of Turkey	I. Deniz et al.
14:30	A Small Brother of GNSS4SWEC: Space Emergency System for Monitoring of Severe Weather Events in the Trans-Carpathian Region based on Real-Time GNSS Analysis	A. Kenyeres et al.
14:45	Near-Real-Time and Real-Time Zenith Tropospheric Delay Products at the University of Luxembourg: Recent Developments	N. Hadjidemetriou et al.
15:00	BENCH Status	J. Dousa et al.
15:15	BENCH STD Validation Results	M. Kacmarik et al.
15:30	Coffee Break	

Session 4: WG1 Summary and Poster Presentations

16:00	WG1 Summary/Discussions	J. Douša, G. Dick
16:30	A Review of Selected Methods for the Outlier Detection in Climatological Time-Series	M. Elias
16:32	Exploitation of NWM-derived tropospheric products in RTK positioning (Poster)	J. Paziewski et al.
16:34	Reprocessing of GFZ Multi-GNSS product GBM (Poster)	Z. Deng et al.
16:36	Near Real Time graphical representation of Tropospheric and Positioning products (Poster)	S. Katsougiannopoulos et al.
16:38	Determination of atmospheric water vapor using GNSS and InSAR measurements with comparison to numerical atmospheric models	F. Alshawaf and S. Hinz
16:40	An analysis of 16-year long datasets of GNSS measurements: IWV trends and diurnal cycle in Europe	H. Keernik and K. Rannat
16:42	On the impact of inhomogeneities in meteorological data on VLBI data analysis (POSTER)	R. Heinkelmann et al.
16:44	Evaluation of GNSS reprocessing tropospheric products using GOP-TropDB	J. Douša et al.
16:46	EPN Repro2: a reference tropospheric dataset over Europe.	R. Pacione
16:48	GPS Integrated Water Vapour Estimations Using Surface Temperatures from METEOSAT Satellite Data	Y. Reuveni and Y. Yair

WG3 Sessions (9th of March, 09:00-12:30)

Session 1: WG3 Oral Session

09:00	Time variability of IWV datasets retrieved from IGS repro1, GOMESCIA satellite measurements and reanalyses	R. Van Malderen et al.
09:15	A reference IWV dataset combining IGS repro1 and ERA-Interim reanalysis for the assessment of homogenization algorithms	O. Bock
09:30	Water vapour variability in models, reanalysis and observations	U. Willen et al.
09:45	Time series analysis of GNSS and ERA-Interim precipitable water vapor data	F. Alshawaf et al.
10:00	Study of the 2007 heat wave in South-east Europe: anomalies and connections of IWV, temperature, precipitation and terrestrial water storage	M. Mircheva et al.
10:15	Comparison of atmospheric humidity and temperature profiles obtained by COSMIC satellites and radiosonde over Cyprus	C. Oikonomou
10:30	Coffee Break	

Session 2: WG3 Oral Session

11:00	Analysis Of Zenith Total Delay Time Series From Reprocessed GPS Solutions	A. Klos et al.
11:15	Statistical modeling of ZWD in GNSS processing - Implications for meteorology	S. Nahmani
11:30	Improved methods for reprocessing of GNSS data for climate monitoring over Poland	K. Stepniak et al
11:45	Screening of GPS ZTD estimates	P. Bosser and O. Bock
12:00	Influence of adopted GNSS processing strategy on long time changes in ZTD parameters.	Z. Baldysz et al.,
12:15	The IAG Working Group 'GNSS tropospheric products for Climate'	R. Pacione
12:30	Lunch	

General Sessions (9th of March, 14:00-15:30)

Session 3: Splinter Meetings

13:30	WG3 Summary	O. Bock and R. Pacione
14:00	Sub-WG Splinter Meetings P. Václavovic - Real-time Demonstration campaign (RT1 PPP, RT, + WG2) H. Brenot - Asymmetry (+ WG2) R. Van Malderen & E. Pottiaux - Homogenisation methods intercomparison	
15:00	Bus from Rugbrauðsgerdin to Bessastadir	
15:30	Reception at Bessastadir, hosted by Mr. Olafur Ragnar Grimsson, President of Iceland. Group Photo	
16:30	Bus back from Bessastadir to Reykjavik	
19:00	Workshop Dinner	

Session 2: WG2 Oral Session and feedback from Splinter Meetings

11:00	GNSS observations as a numerical weather prediction data source, first results for ZTD/IWV assimilation over Poland	W. Rohm, J. Guzikowski, M. Kryza, K. Wilgan, P. Hordyniec and J. Kaplon
11:15	The role of the export of tropical moisture into mid-latitudes for extreme precipitation events in southern Europe and the Mediterranean region	S. Krichak
11:45	Real-time Demonstration campaign (RT1 PPP, RT, + WG2)	P. Václavovic
12:00	Asymmetry (+ WG2)	H. Brenot
12:15	Homogenisation methods intercomparison	R. Van Malderen
12:30	Special Issue	R. Van Malderen
12:35	Sumer School, DONM and close of Workshop	G. Dick and J. Jones

MC Meeting (10th of March, 14:00-17:00)

14:00	Action Overview	J. Jones
14:20	National Reports	All
15:30	Coffee Break	
16:00	National Reports	All
16:15	Review of WG1 activities	G. Dick
16:30	Review of WG2 activities	S. De Haan
16:45	Review of WG3 activities	O. Bock and R. Pacione
17:00	AOB and close of meeting	J. Jones