

PROPOSAL FOR THE EUREF Permanent Network Analysis Coordinator (AC)



COMBINATION CENTRE

Cooperation of two universities:



**Military University
of Technology (MUT)**



**Warsaw University
of Technology (WUT)**

EPN COMBINATION CENTRE - TEAM



KAROLINA SZAFRANEK (MUT, ANALYSIS COORDINATOR FOR 2 YEARS)

ANDRZEJ ARASZKIEWICZ (MUT, ANALYSIS COORDINATOR FOR 2 YEARS)

MARIUSZ FIGURSKI (MUT)

TOMASZ LIWOSZ (WUT)

GRZEGORZ NYKIEL (MUT)

PIOTR SZYMAŃSKI (MUT)

AND OTHERS

EPN COMBINATION CENTRE – MAIN TASKS

DETERMINATION OF COMBINED SOLUTION BASED ON LACs' SOLUTIONS

In cooperation with the Reference Frame Coordinator

- **Weekly coordinates of EPN stations;** →
- Daily coordinates of EPN stations;
- Rapid daily coordinates of EPN stations;
- Hourly coordinates of EPN stations
- Solution for EPN sub-network for the TIGA project

IGS

Re-processing solutions!

EPN COMBINATION CENTRE – MAIN TASKS

ANALYSIS AND VERIFICATION OF LACs' SOLUTIONS

- Monitoring of LAC's solutions;
- Ensuring routine generation of consistent solutions;
- Reporting station irregularities to the Network Coordinator;
- Reporting problems to LACs;
- Taking care of processing strategies among LACs;

EPN COMBINATION CENTRE – MAIN TASKS

COORDINATION OF LACs' ACTIVITY

In cooperation with Central Bureau/Network Coordinator

- Strategies used by LACs (updates of „Guidelines“ taking into consideration new improvements);
- Information flow between LACs, CB and AC;
- Specific tasks for LACs (EPN monitoring & new products) to avoid overlapping among LACs;

EPN COMBINATION CENTRE – MAIN TASKS

COMBINATION CENTER WEBPAGE

- Information about all LACs;
- Status of the stations from the latest combined solution;
- Stations coordinates from latest combined solution wrt the last cumulative solution;
- Time series of the combined solutions coordinates (graphs);
- ...

EPN COMBINATION CENTRE – RESOURCES

INFRASTRUCTURE & SOFTWARE

- FTP server for LACs' solutions;
- Computing servers (HPC);
- Processing and combination software;

*BERNESE
5.0 / 5.2*

*GAMIT/GLOBK
10.4*

*NAPEOS
3.3.1*

CATREF



EPN COMBINATION CENTRE

THE MOST URGENT **PROBLEMS & TO DOs**

- Preparation of IT infrastructure and webpage;
- **New scripts for combining solutions;**
- Information flow between LACs, AC and CB;
- New tasks for LACs (?);
- Update of „Guidelines for EPN LACs“ (strategy);

GLONASS data, global analysis ...

EPN COMBINATION CENTRE

SUGGESTIONS? QUESTIONS? COMMENTS?

Your feedback is appreciated!

kszafranek@wat.edu.pl

aaraskiewicz@wat.edu.pl

Optionally: k.szafranek@gmail.com