

EPN DENSIFICATION STATUS REPORT

EUREF TWG MEETING, 4 NOVEMBER, 2014

AMBRUS KENYERES
EPN REFERENCE FRAME COORDINATOR

T HORVÁTH

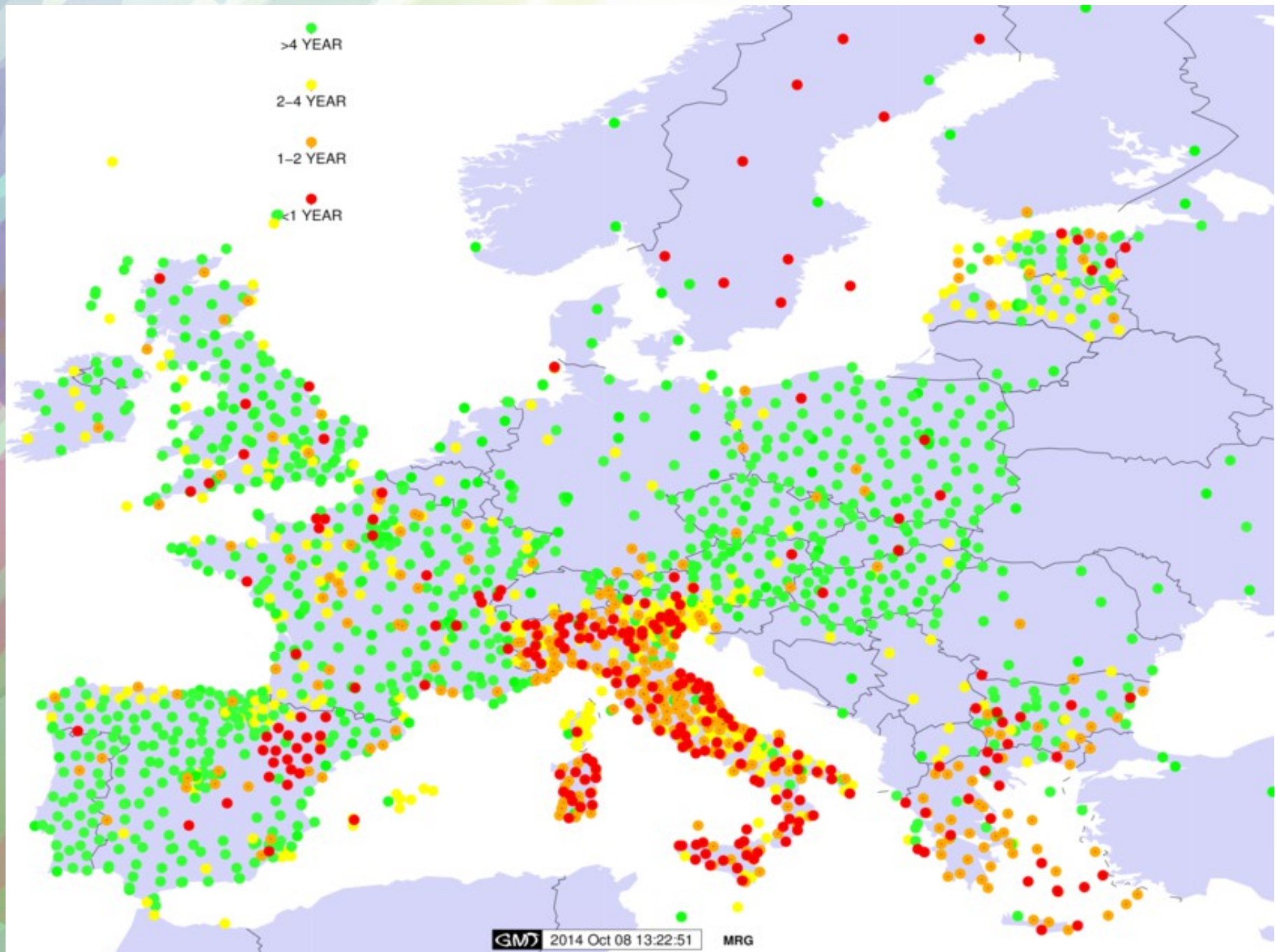
**A CAPORALI - B DROSCAK - P FRANKE - B GARAYT - I GEORGIEV - M GIANNIOU -
D HANSEN - L HUISMAN - I JUMARE - J NAGL - P PIHLAK - G STANGL - M VALDES -
K SZAFRANEK - M FIGURSKI**

AND MANY MORE . . .

DATA AVAILABILITY - OCTOBER 2014

ASG	Poland	: 1482 - >1800	MUT re-processed	
EST	Estonia	: 1448 - >1800		
GGI	Latvia	: 1461 - >1800		ECC
GKU	Slovakia	: 1408 - 1729		
CZE	Czech R	: 1565 - 1800		
SGO	Hungary	: 1200 - >1800	re-processed	
AMON	Austria	: 1356 - >1800		
MON	Middle East	: 1400 - >1800		
GRE	Greece	: 1721 - >1800		
HEPOS	Greece	: 1460- 1616	RAW data	
CEGRN	CE-Europe	: 1400 - >1800		G.Stangl
BUL	Bulgaria	: 1434 - 1800	daily GAMIT	
UPA	Italy	: 1623 - >1778		
IGN Spain	Spain/Portugal	: 1400 - 1770	daily	
AGRS	The Netherlands	: 0782 >1800		
SGN	France (glo)	: 1200 - >1800	GLOBAL	
BIGF	UK (glo)	: 1200 - >1800	IGS08 - GLOBAL	
AGNES	Switzerland	: 0953 - >1800	IGS08 - cumulative	

SINEX AVAILABILITY (up to mid-2014)



ANALYSIS ISSUE: MIXED IGS05/08 ATX

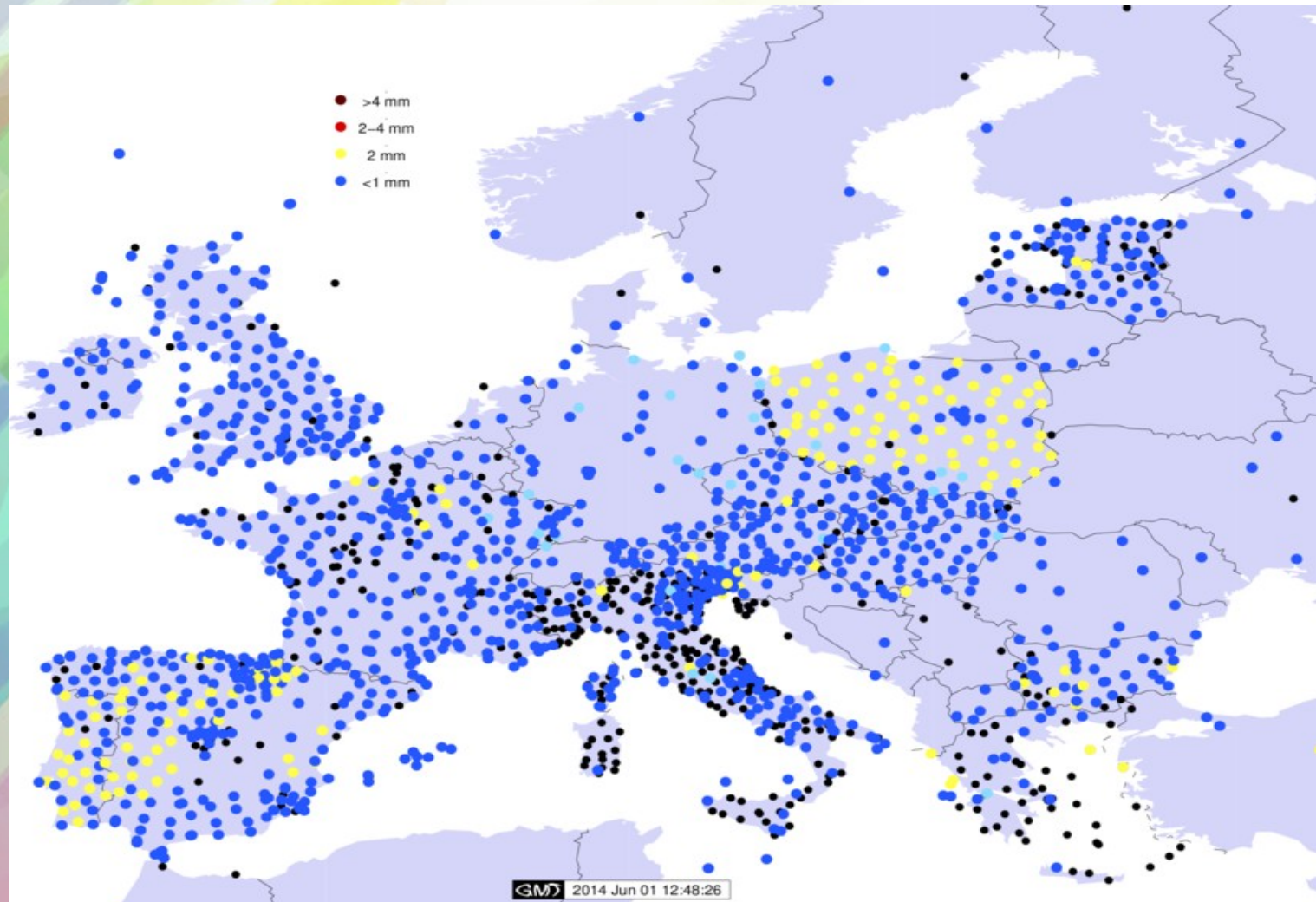
Analysis groups - except BIFG/UK, MUT/PL and SGO/HU - used IGS05 until GPSweek 1632, then changed to IGB08 at week 1709

→ position offsets may appear at GPSweek 1632 in the position time series

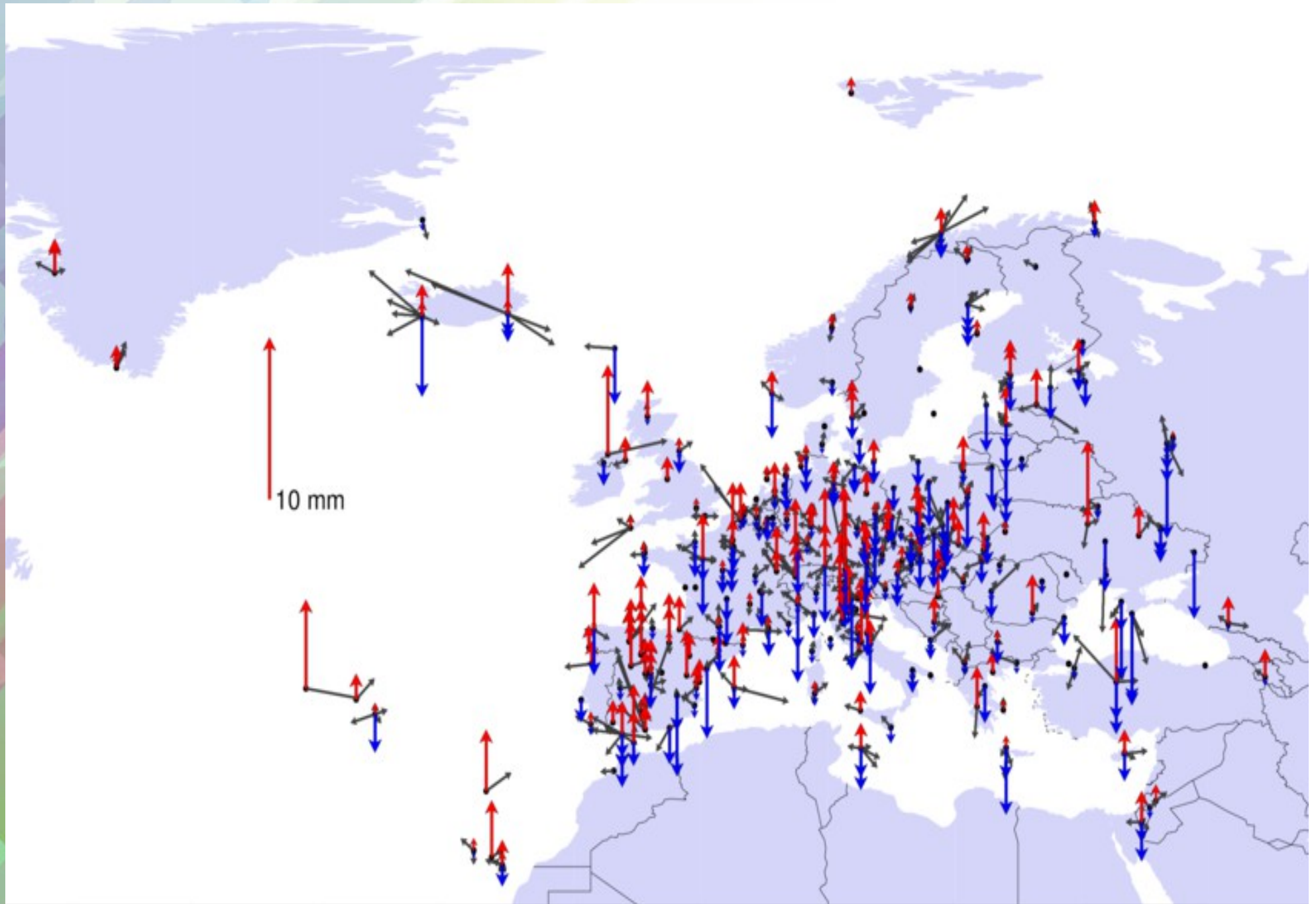
**NORTH COMPONENT
CORRECTION
ESTIMATES FROM
THE IGS TOOL**



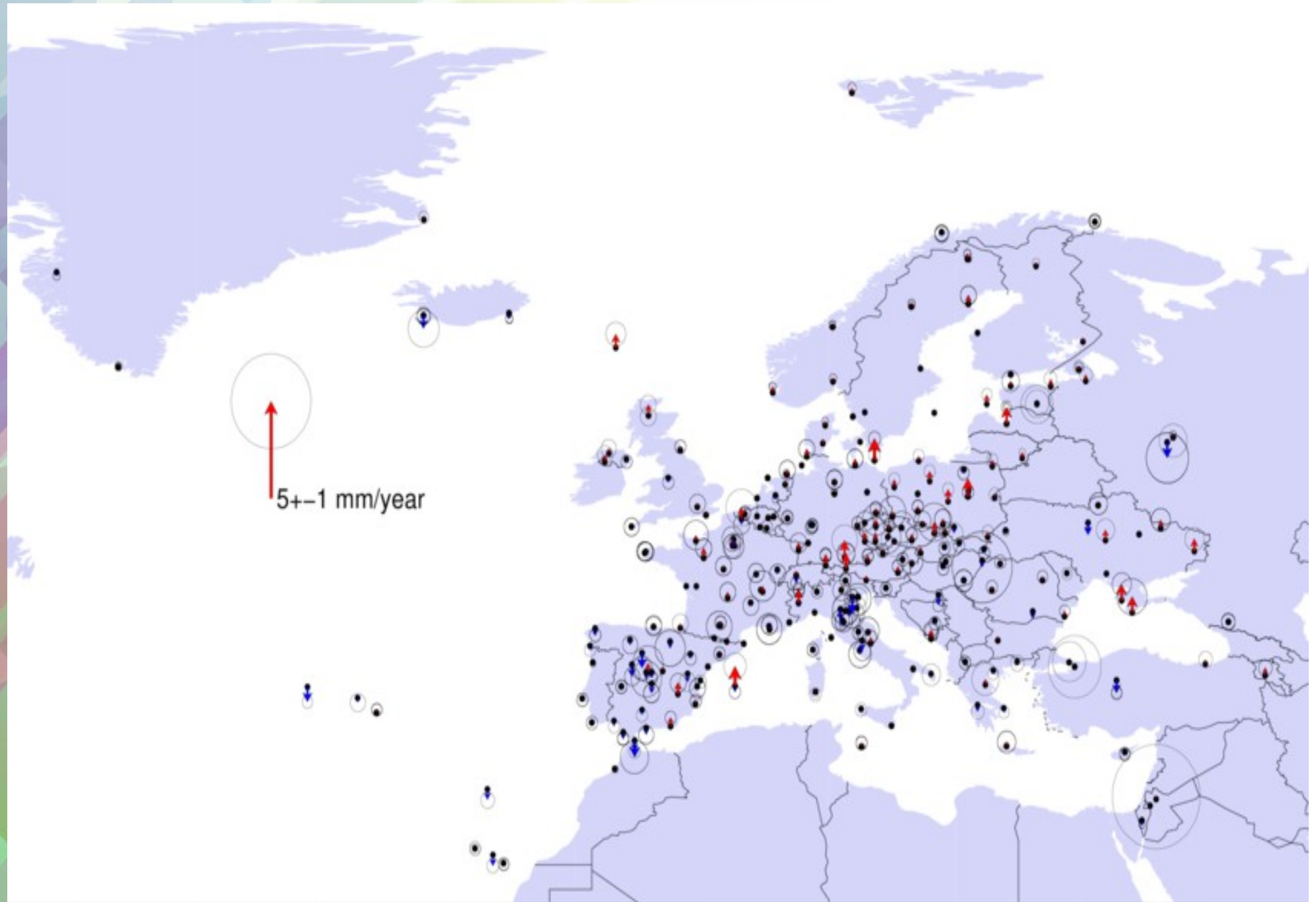
**POLAND HAD BEEN
REPROCESSED
&
OFFSET ESTIMATES
HAD BEEN ADDED
TO THE SPANISH
SOLUTION**



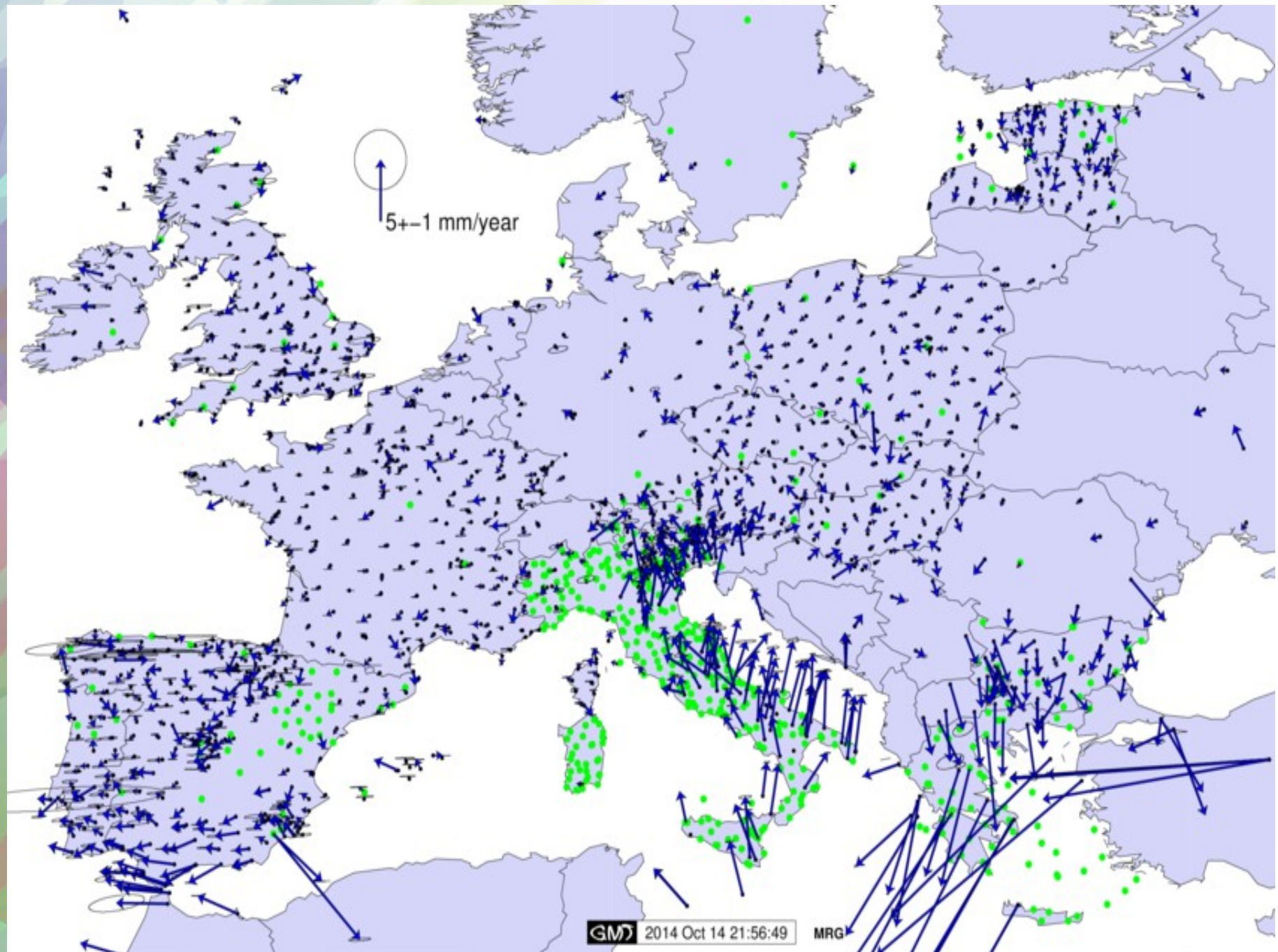
COMPARISON WITH OFFICIAL EPN - CRD



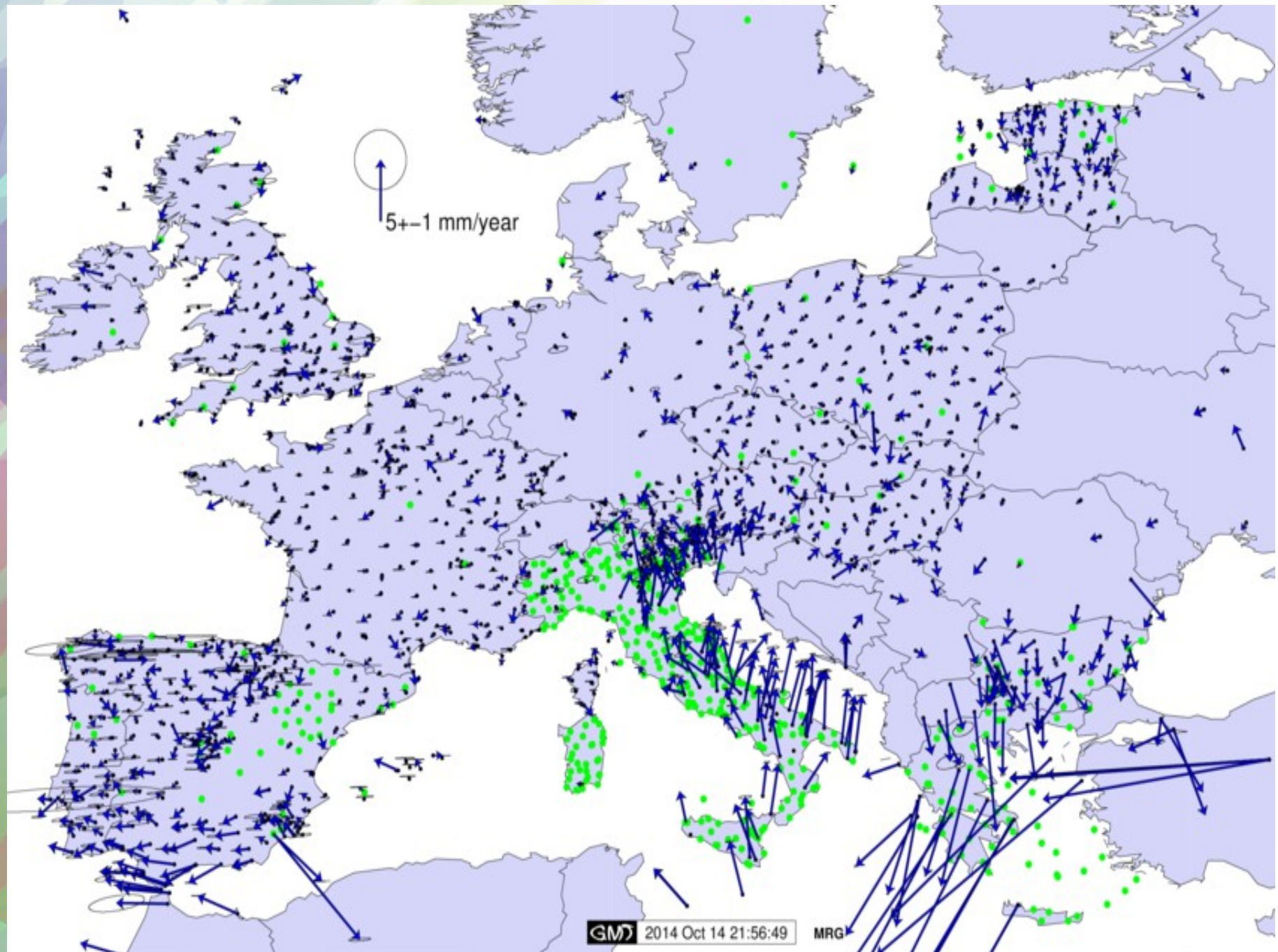
COMPARISON WITH OFFICIAL EPN - VEL



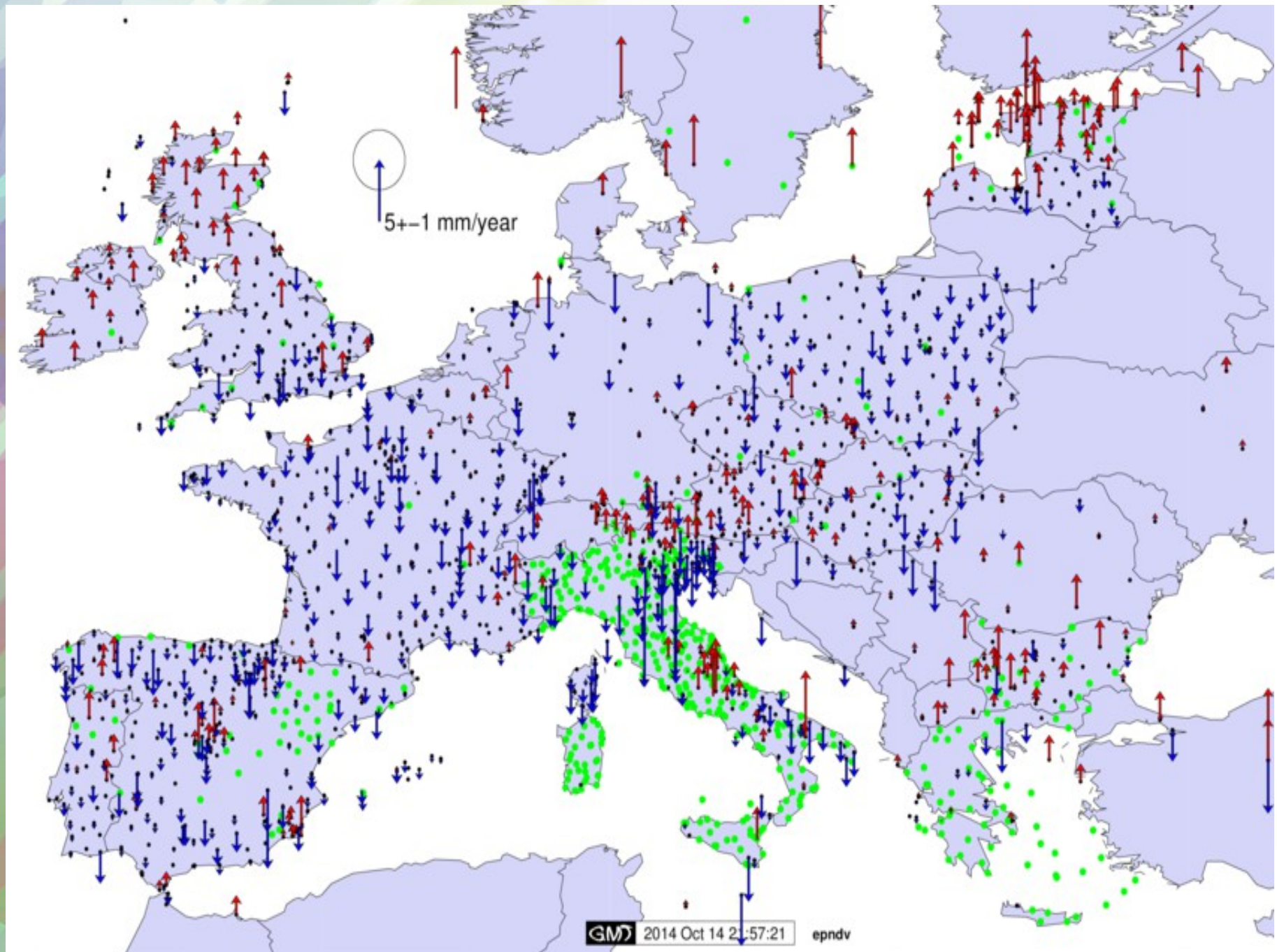
ETRF2000 VELOCITIES $L > 3$ years



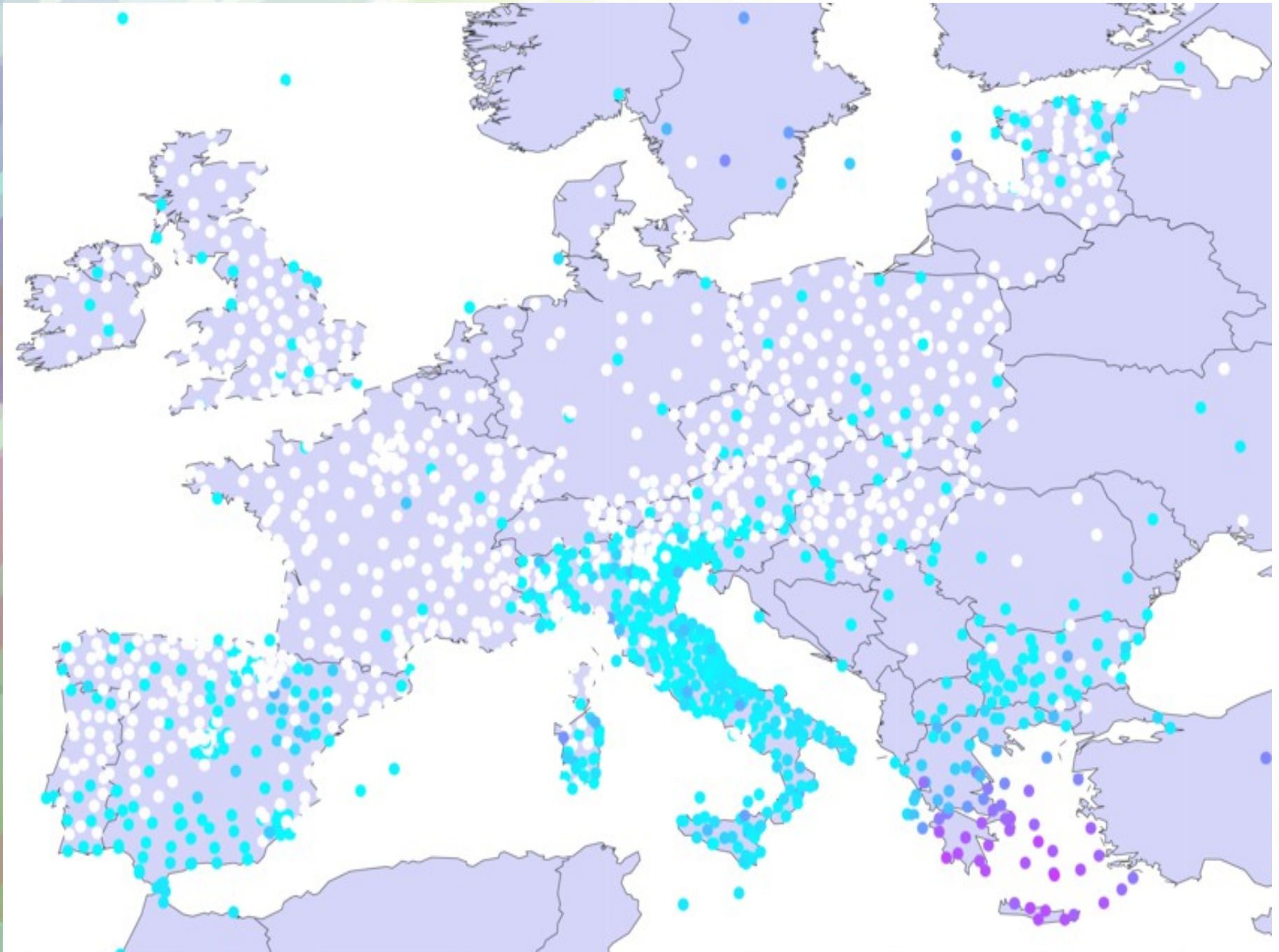
ETRF2000 VELOCITIES $L > 3$ years



UP VELOCITIES (L > 3 years)



STABLE PART OF EUROPE (1 mm/y)



FUTURE STEPS

- FILLING IN THE WHITE SPOTS (Balkan, Fennoscandia)
- EPN DENSIFICATION WILL BE GLOBAL → ← EPN not (yet)
- WEBSITE UNDER PREPARATION (EPNCB)
 - metadata (log files, station related information)
negotiations in good progress
 - ACs contributing to the work - product naming
 - results
- **WORKING GROUP IS BEING FORMED**
SHARED METADATA CHECK, INDEPENDENT TESTS
- **FIRST PUBLICATION: BEFORE EGU2015**
- **REPRO2**
- **EPOS CONNECTION**