

# *EUVN\_DA: FINAL STEPS*

*EUVN\_DA WORKING GROUP:*

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*EUREF TWG SPRING MEETING HELSINKI, 31 MARCH - 1 APRIL 2008*

# CURRENT STATUS

THE DATA COLLECTION PHASE HAS COMPLETED !!!

>1400 HIGH QUALITY REFERENCE GPS/LEVELING POINTS

SINCE THE PARIS MEETING: **HYBERNATION !**

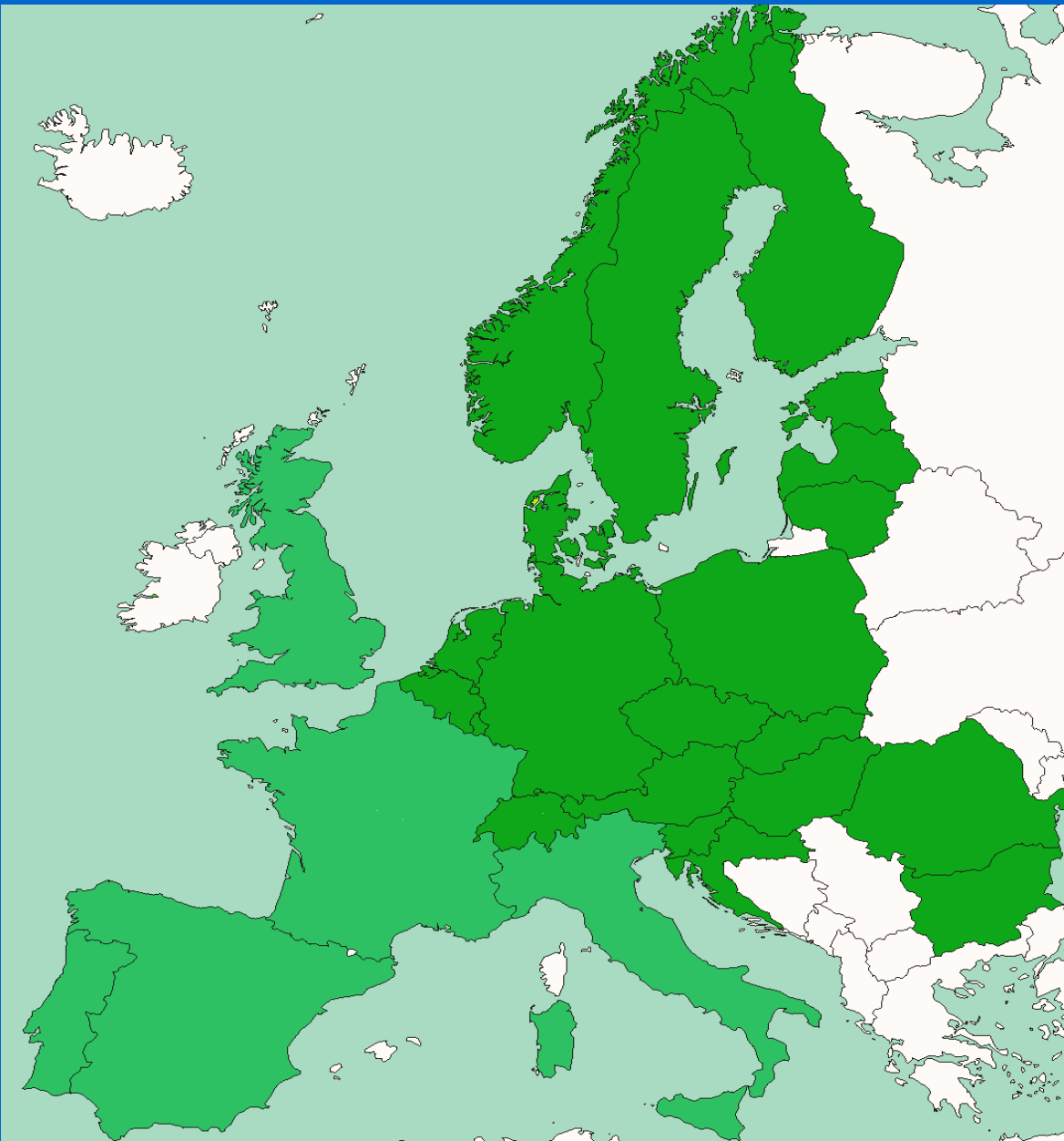
WAITING FOR THE DECISION ABOUT PERMANENT TIDE

$H(UELN)$ : mean to zero tide

$h(ETRS)$ : tide free to zero (mean) crust

EGG07 is already in zero tide system!

# STATUS - MARCH 2008

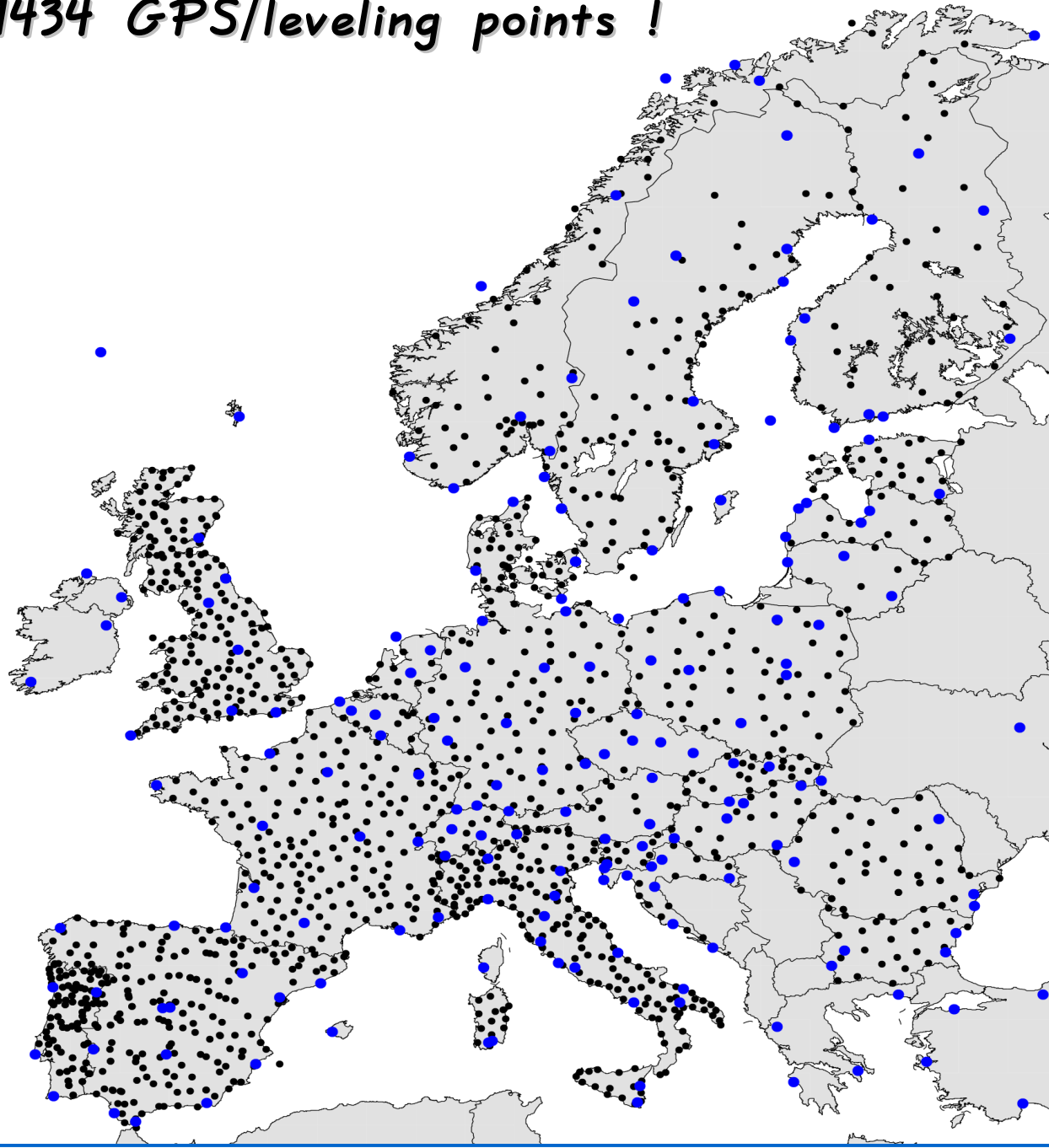


**'STANDARD' GPS AND  
LEVELLING DATA**

**<24 h GPS  
OBSERVATION SESSIONS  
BUT DENSER NETWORK**

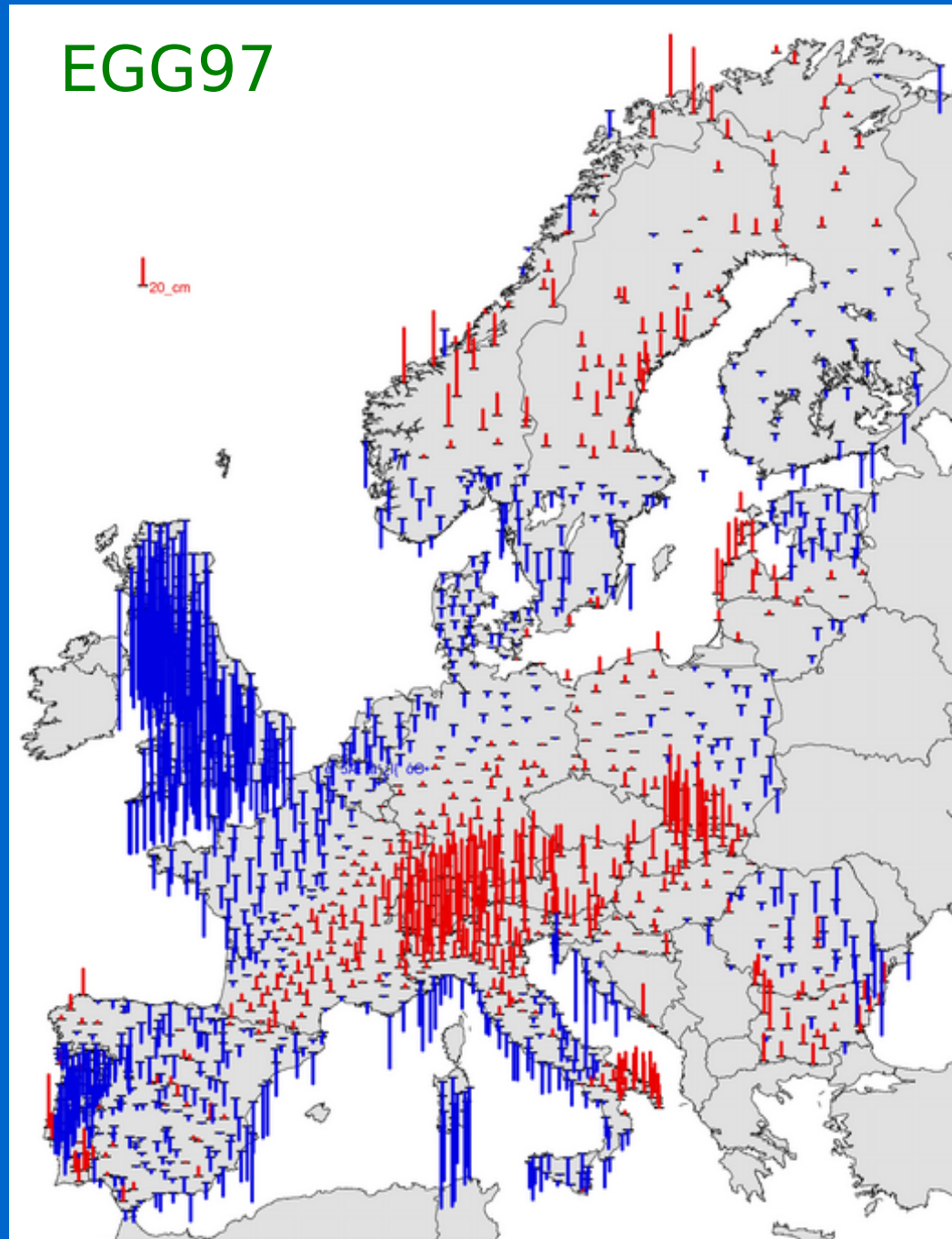
# ***EUVN\_DA POINT DISTRIBUTION***

***1434 GPS/leveling points !***

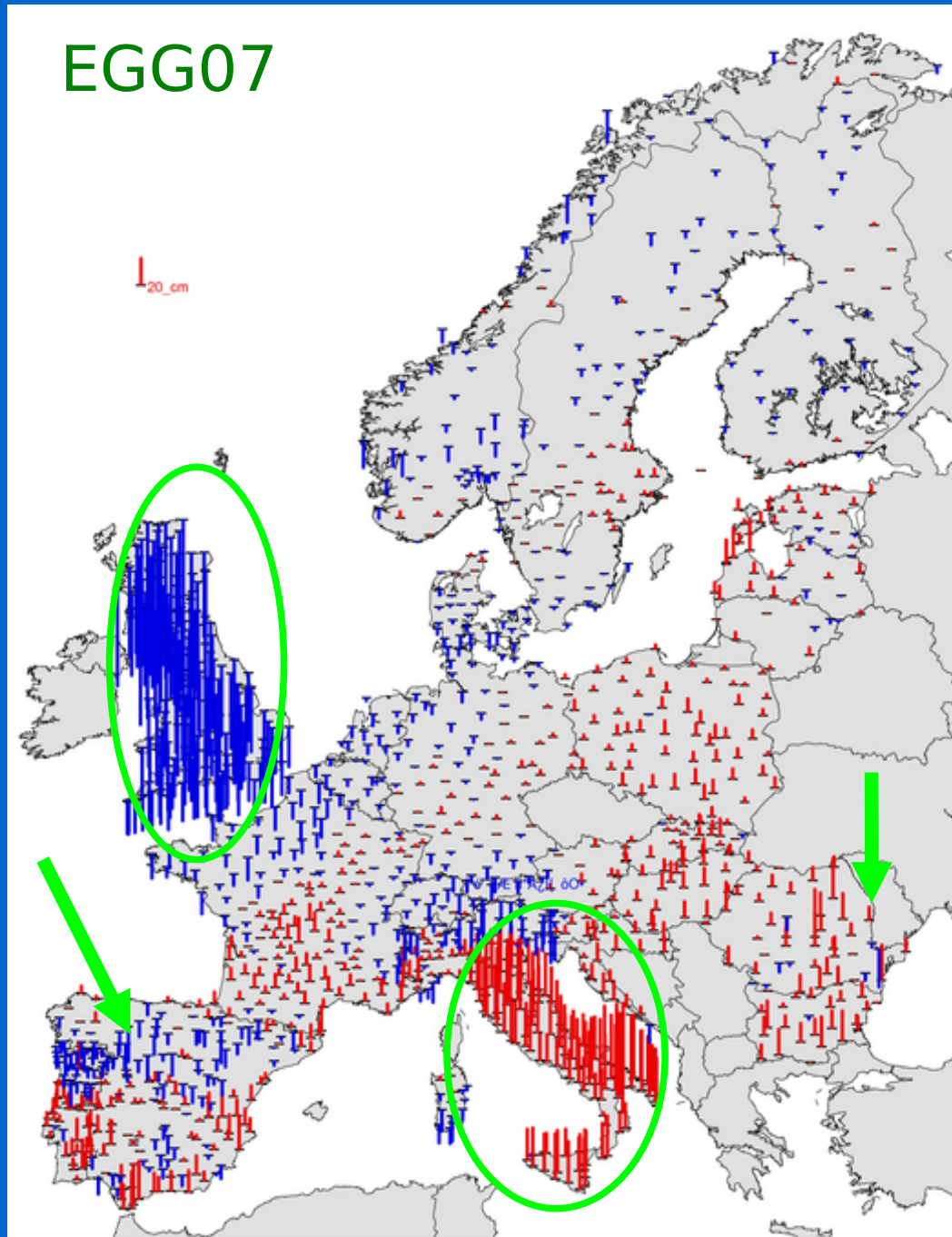


# EUVN\_DA EGG<sub>yy</sub> COMPARISON

EGG97



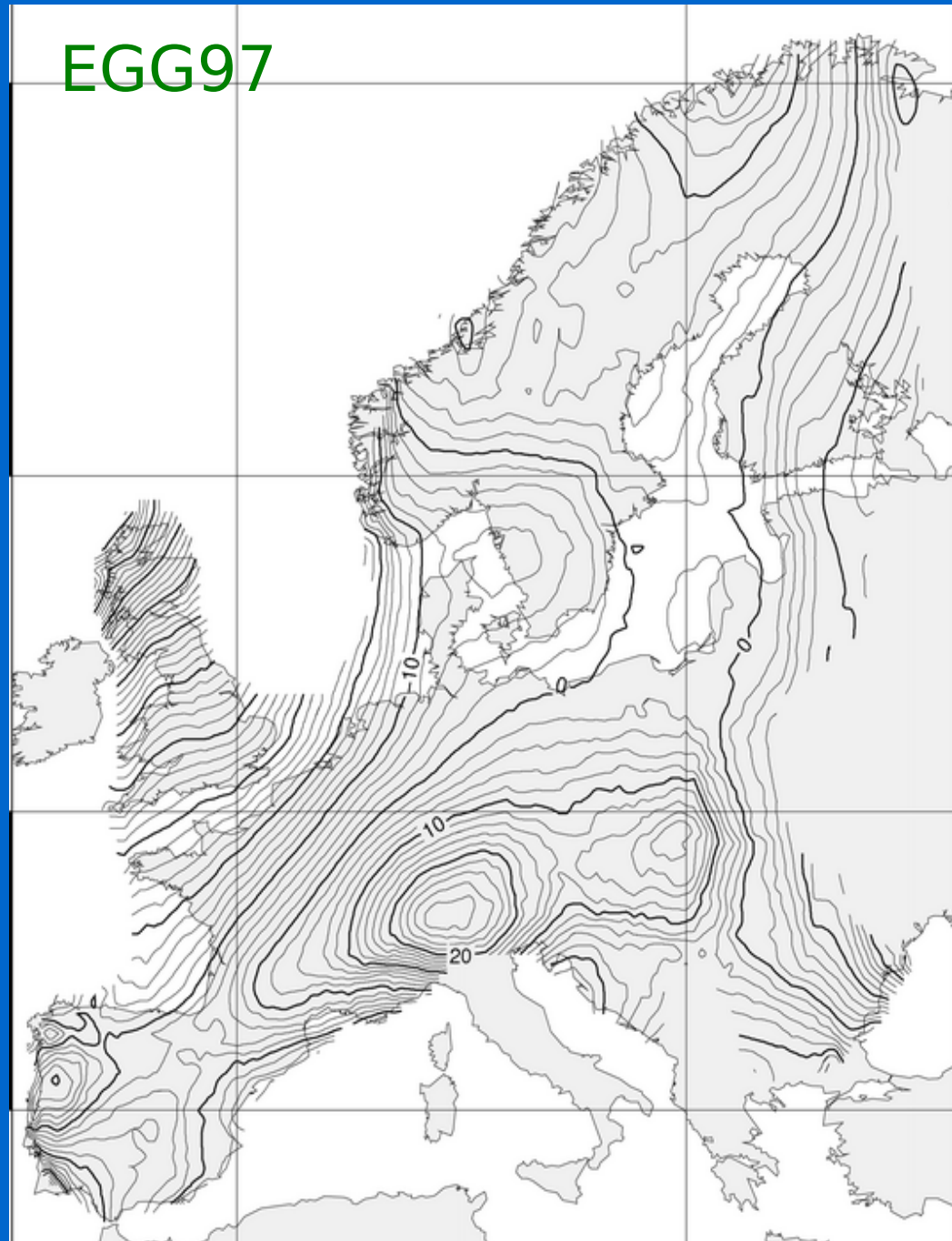
EGG07



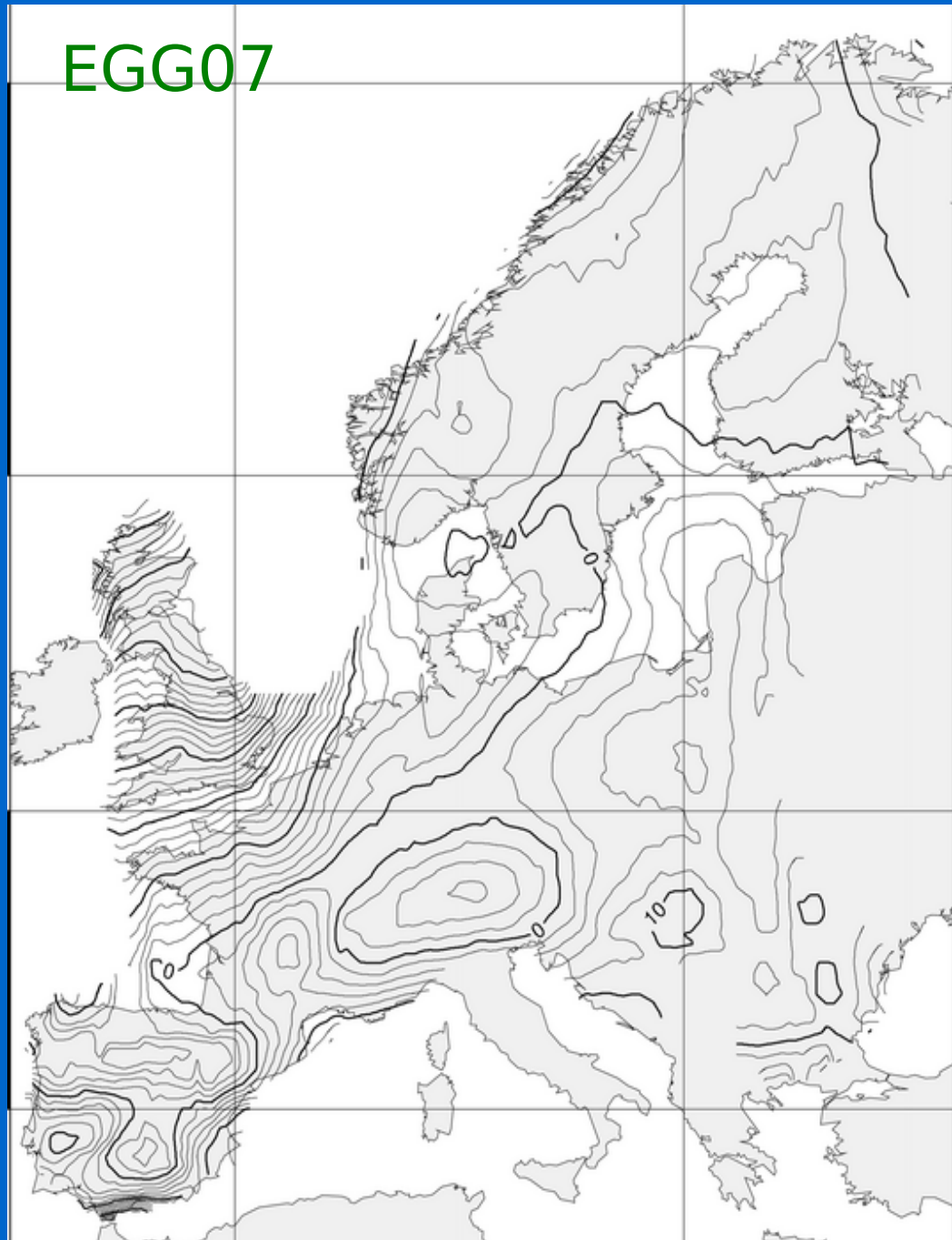


# ***EUVN\_DA EGG<sub>yy</sub> COMPARISON***

**EGG97**

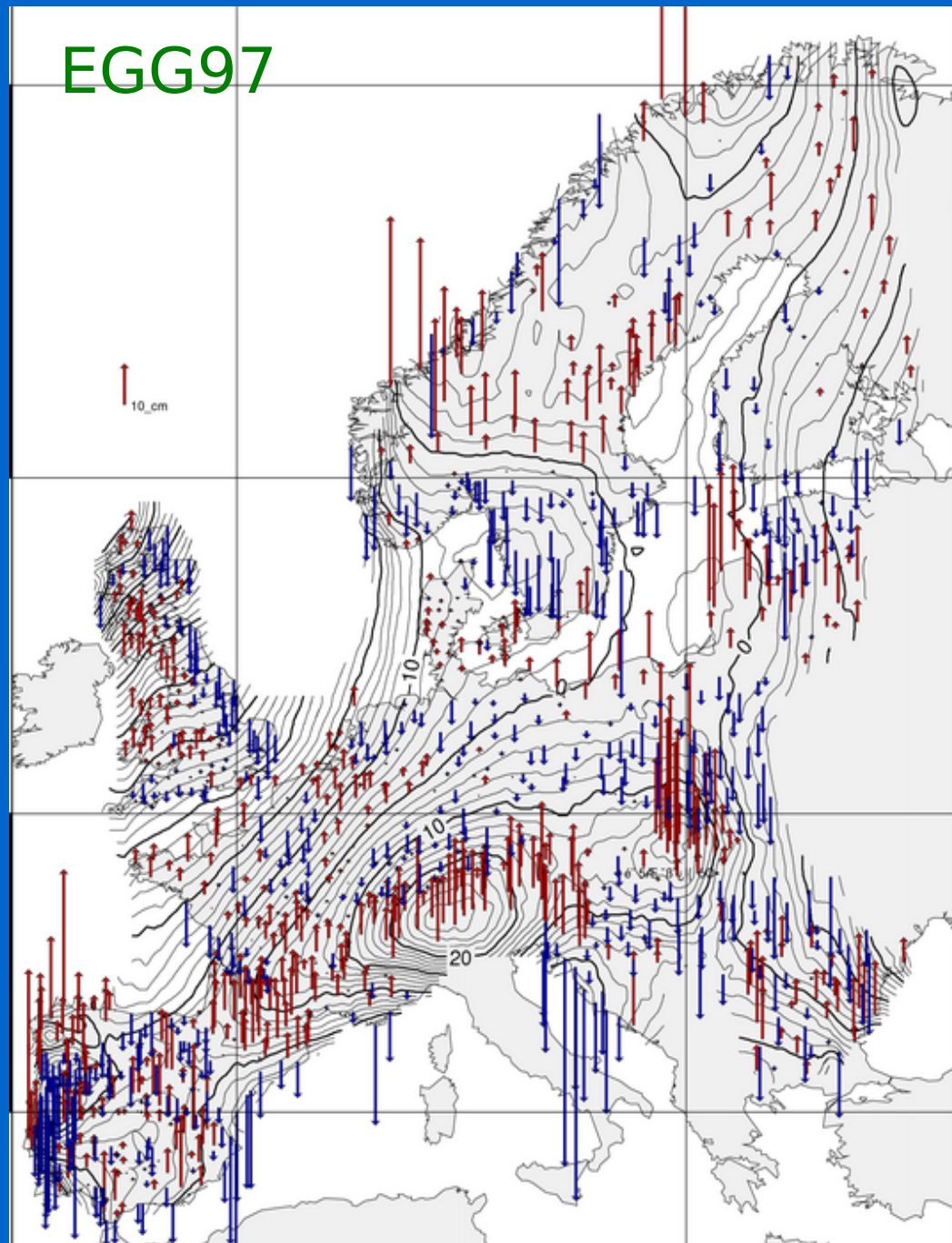


**EGG07**

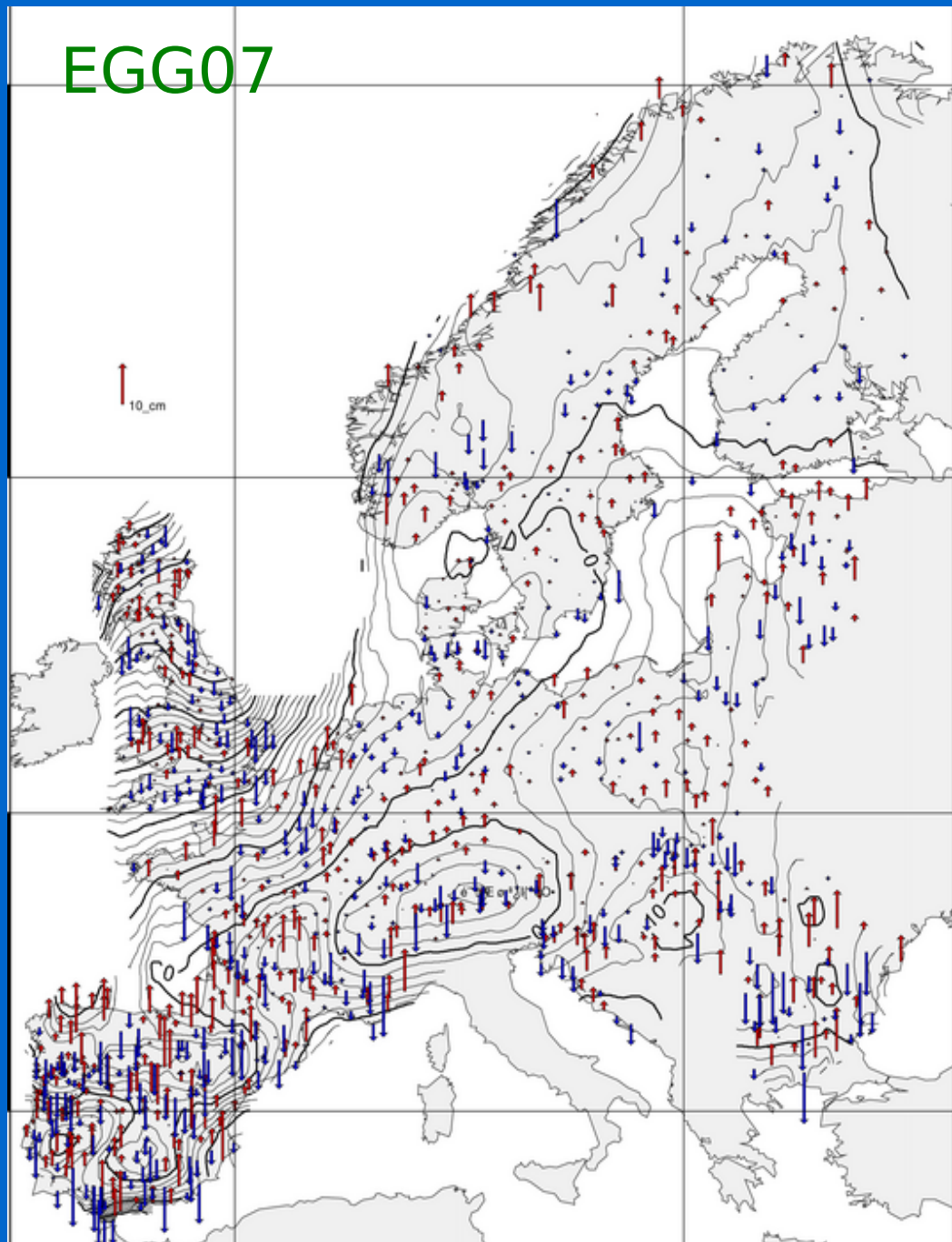


# EUVN\_DA EGGyy COMPARISON

EGG97



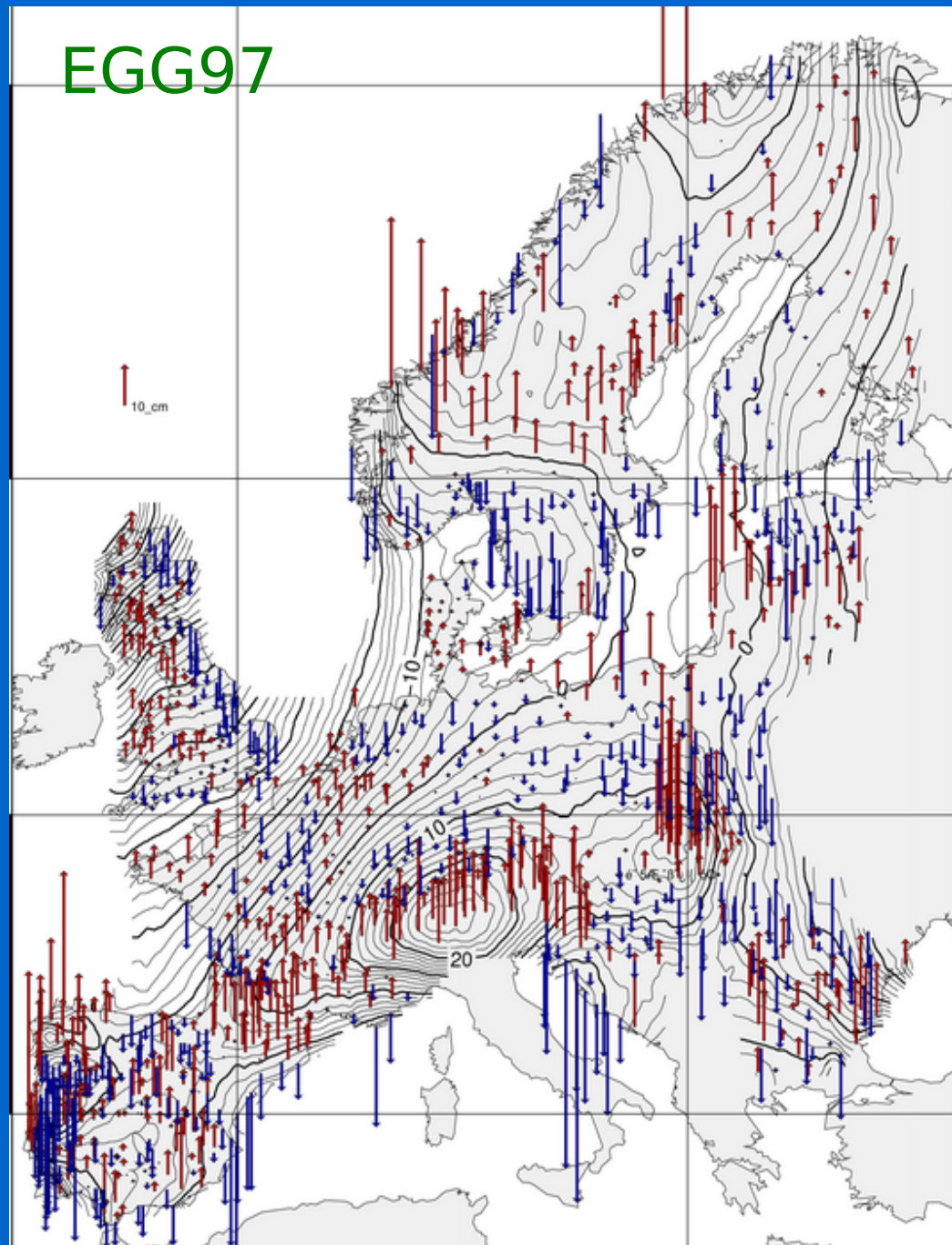
EGG07



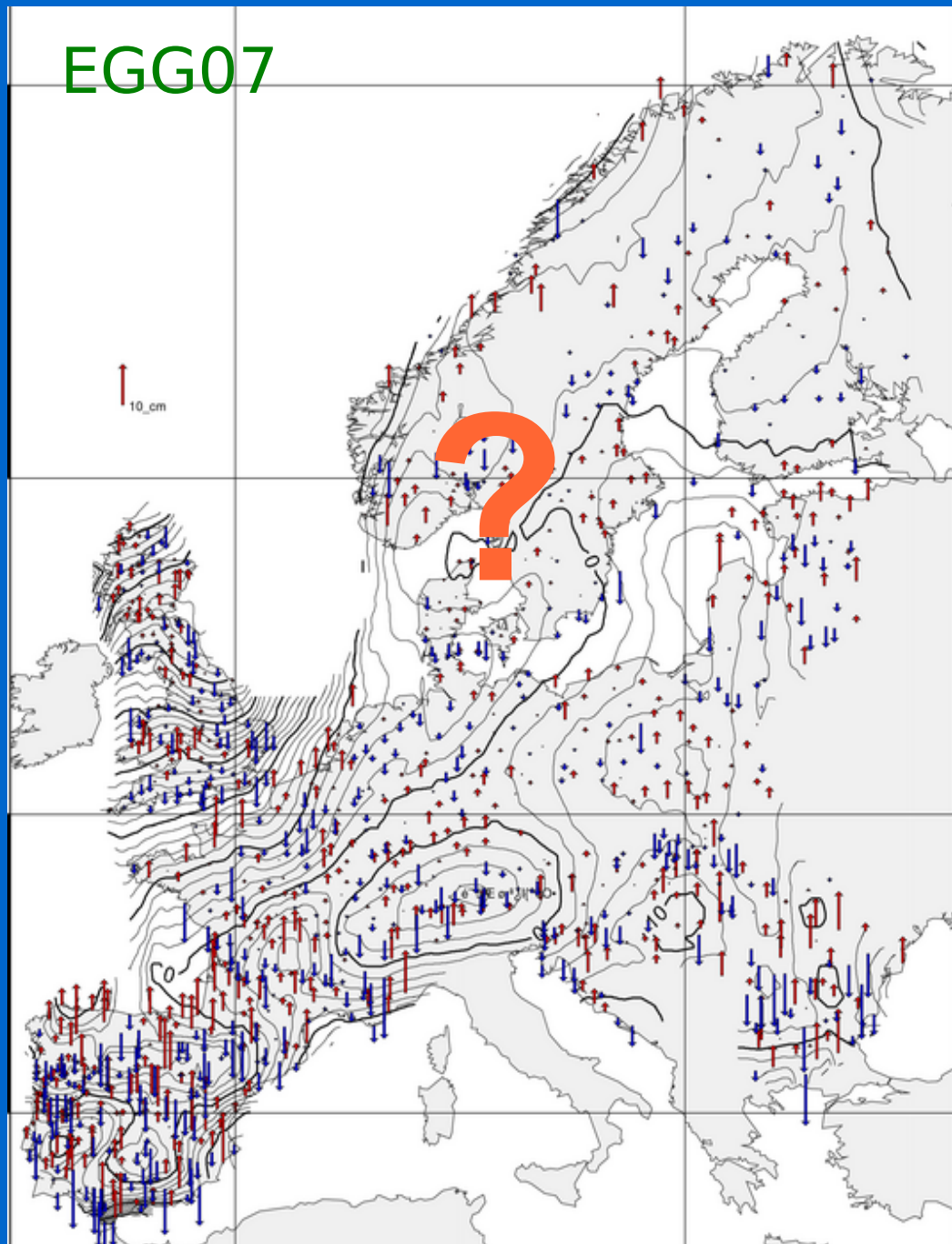


# EUVN\_DA EGGyy COMPARISON

EGG97



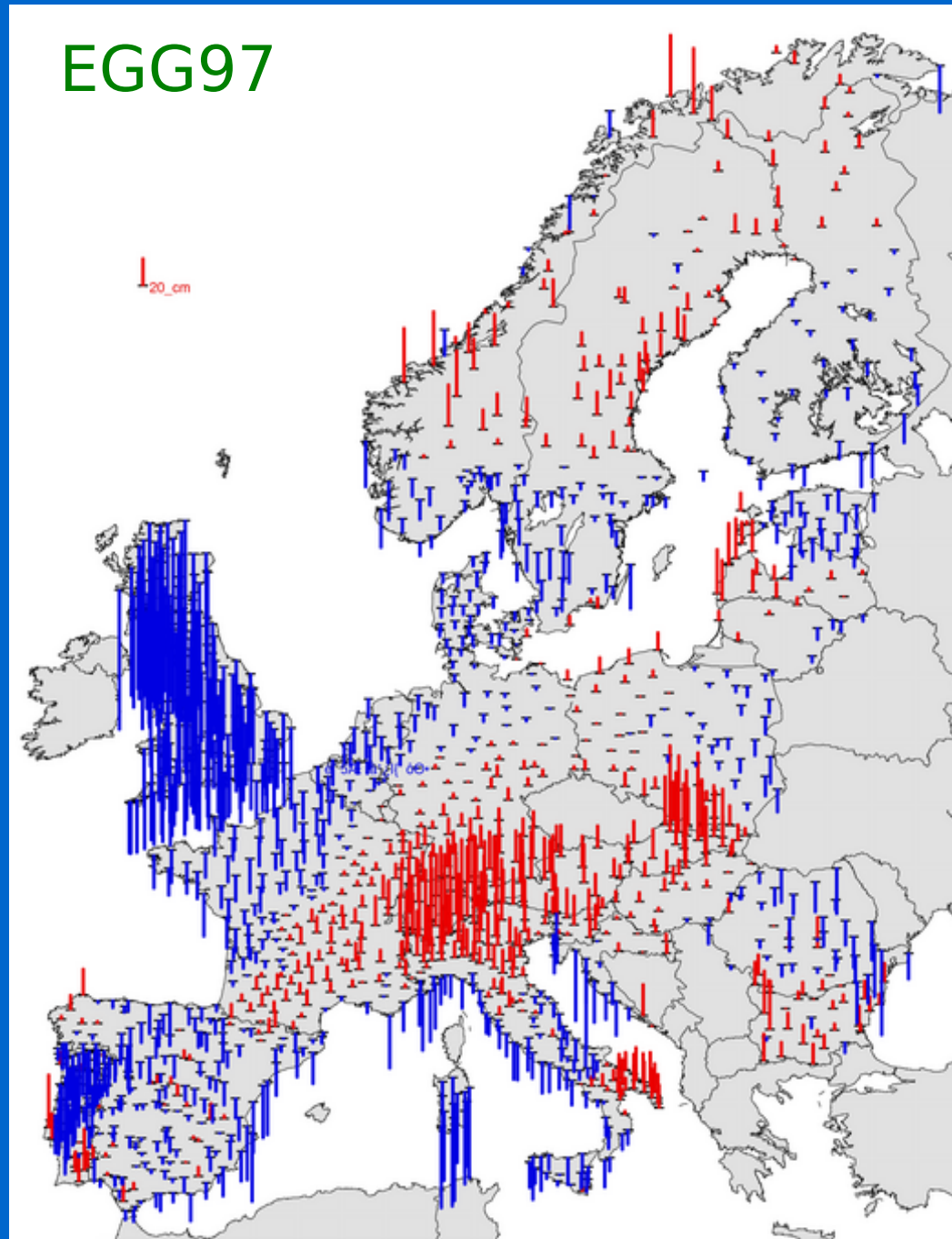
EGG07



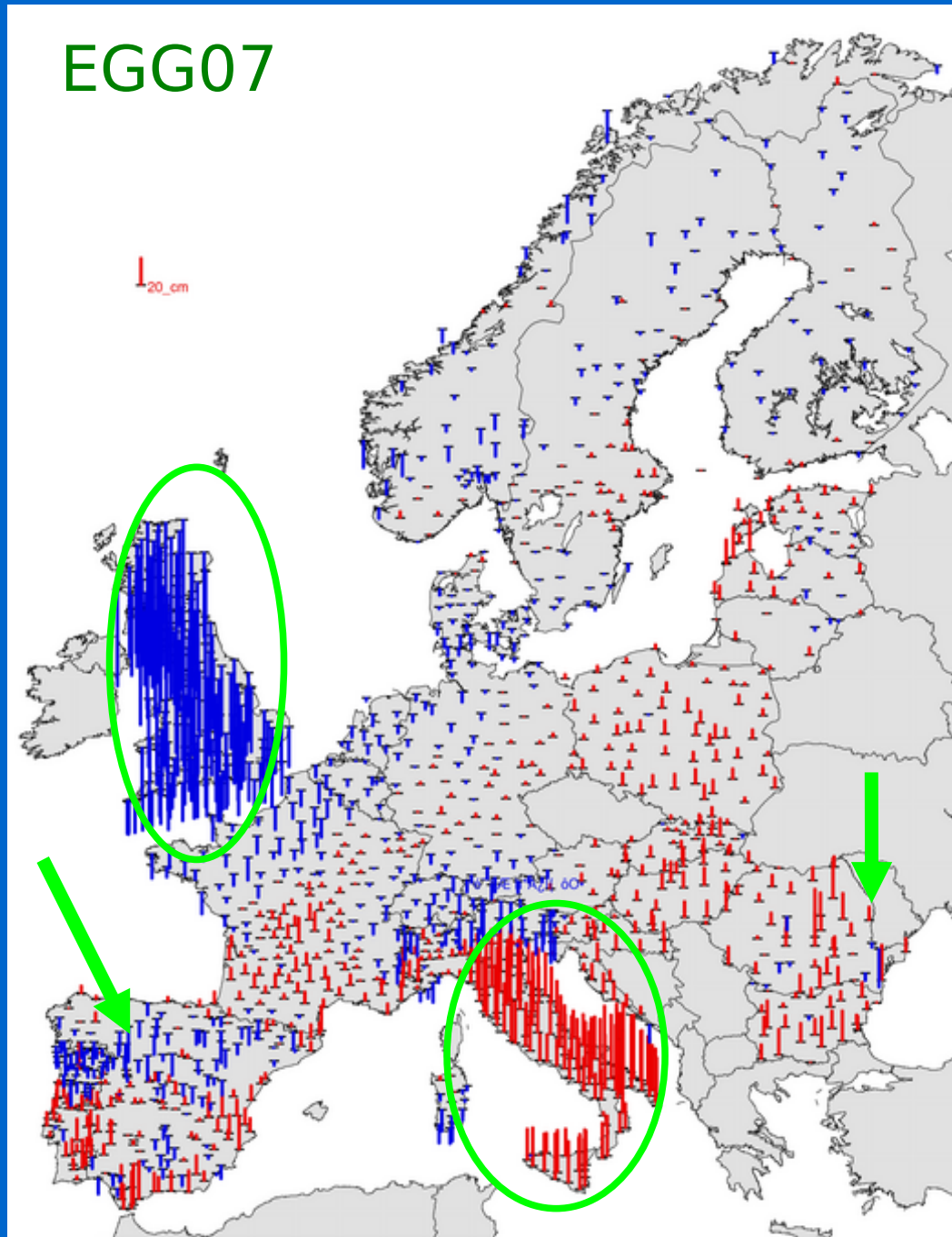


# EUVN\_DA EGG<sub>yy</sub> COMPARISON

EGG97



EGG07



# PROBLEMATIC PARTS

- 1./ *Spain: new leveling data submission in 2009*
- 2./ *Romania: visit to Bucharest (AK, HD) in April*
- 3./ *Italy: solution still unclear*  
*(no significant improvement expected in EGG08)*
- 4./ *UK: UELN datum + EGG08 may partially help*

*Should we fit/adjust the gravimetric geoid  
with an obviously distorted leveling network?*

# THE USE OF EUVN\_DA

## EVRS

- contribution to the practical implementation (?)

## EGM

- geopotential model tests

## EGGP

- testing the consecutive EGGyy solutions
- estimation of the EGGyy zero undulation term
- combination of EGGyy and EUVN\_DA (HRS!)

WILL NOT BE DONE UNTIL THE MAIN DATA  
PROBLEMS ARE SOLVED!



# *NEXT STEPS IN EUVN\_DA*

*Implementation of permanent tidal effects*

*- in one month*

*Final report - mid May*

*Web pages - end of May*

*Publications - Final Report (?)*  
*EUREF Symposium, Brussels*  
*GGEO08 Symposium, Crete*

# ***EUVN\_DA FUTURE POLICY***

*Data access - free, but password protection*

*Upgrades*

- *when considerably new data made available ( e.g. Spain) or*
- *when important data improvement may happen (e.g. Italy, Spain)*

*EGGP*

- *EUREF will be contributor or outsider in the geoid GPS/leveling combination?*