

12 October 2022

breakout session: AdriaArray update

on agenda

Thomas: AdriaArray introduction & organization

Petr: AdriaArray seismic network – current status

Thomas collaborative research groups (CRGs)

Cédric: outcome of the questionnaire

Frederik: seismicity WG idea

technical questions virtual network
data availability
data & metadata QC
AdA logo

6th Annual AlpArray & 4DMB Scientific Meeting, October 12 – 14, Prague



INSTITUTE OF GEOPHYSICS
OF THE CZECH ACADEMY OF SCIENCES



Thomas: AdriaArray introduction & organization

AdriaArray Seismic Network status in October 2022

Petr Kolínský (Institute of Geophysics, Czech Academy of Sciences, Prague)

Thomas Meier (Institute for Geosciences, Kiel University)

&

the AdriaArray Seismology Group

6th Annual AlpArray & 4DMB Scientific Meeting, October 12 – 14, Prague



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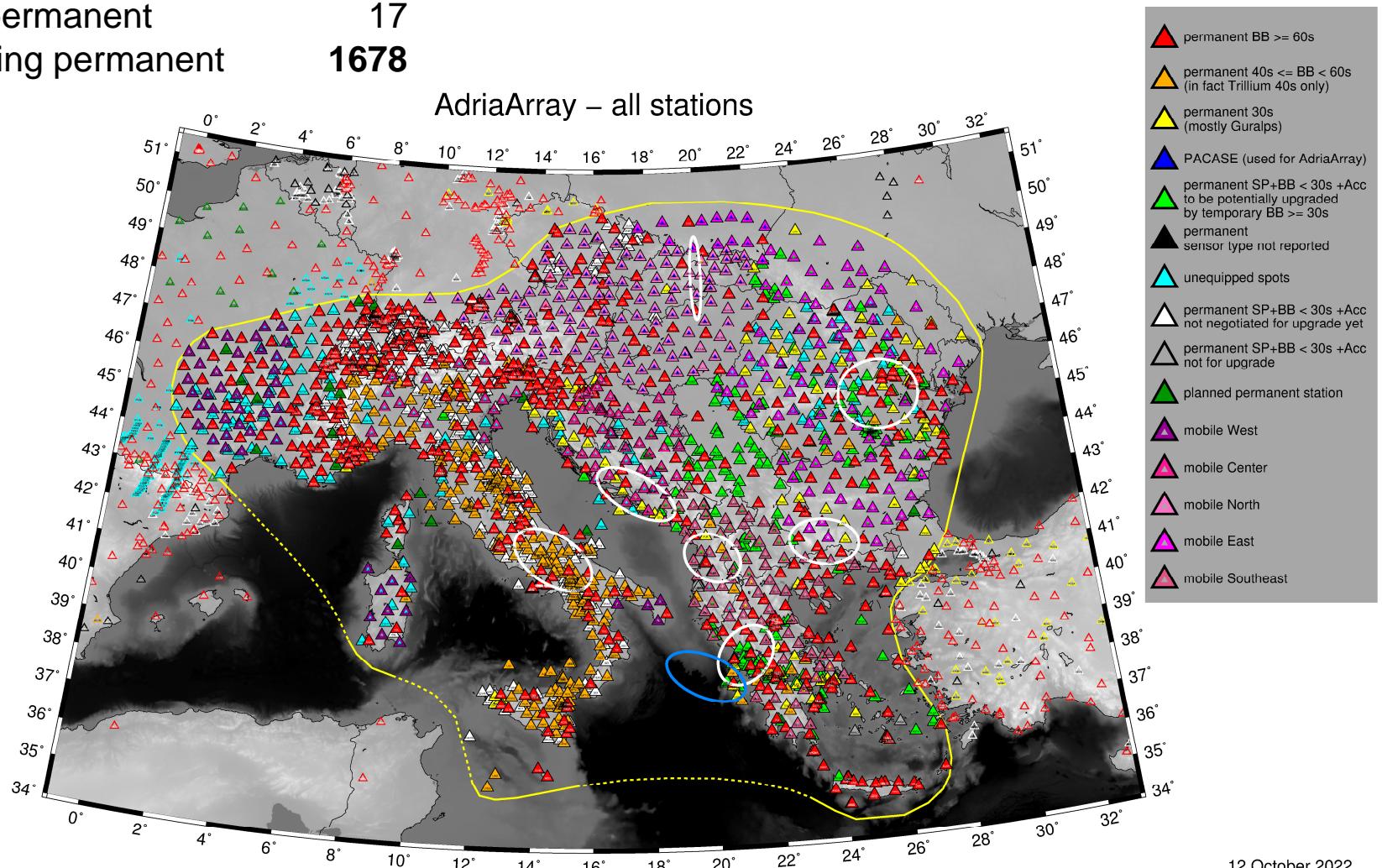


Adria Array – all permanent stations - update October 2022

inside AdriaArray region:

BB ($\geq 30s$)	971
SP+SM for upgrade	258
SP+SM others	449
unknown	0
planned permanent	17
total existing permanent	1678

(there are 2300+ stations on the map
including those outside the AdriaArray region)



permanent station inventory: sheet of 2521 stations and spots (rows) x 25 “properties” (columns)

StationInventory.xls - OpenOffice.org Calc

Soubor Úpravy Zobrazit Vložit Formát Nástroje Data Okno Nápověda

Najít Arial 10 B U

A1

name Name town previous sheet round name corner in [sec] yes=1/no=0 name table if r1=wors operat ina no=0 EID center GIB+DS9/sug difficulty

Network Name Latitude Longitude elevation show Site name country Sensor ph Sensor type corner period Possible spot Digitizer Caplin+qua Institute et prelin+DA+OA no+Be+SN+ sug

station WGS84 WGS84 [m] village / see remark on rock, cor marketing sensor low if corner<60s marketing higher active network sens=+IDA+de / da+Gok+DS9/sug any c

GR CMG-3ESP 100s (200) 100 Janus-Trident 40 Vpp (Gain 1) 1 1 1

D Le3D-1 1

H G120 120

GR Building concrete Lennartz20s+CMG-5T 20 0 SMART24 100 4 NOA Evan 1 1 NOA 1 1

GR Urban free field concrete TrilCompact120s 120 Geobit SR32 100 3 UPAT Soko 1 1 NOA 1 1

RO underground shaft concrete CMG40T 30 1 Q330 100 3 NIEP 1 0 0 0

GR Free field bedrock G120s 120 Guralp Minim 100 2 UPAT Soko 1 1 NOA 1 1

I NANOMETRICS TRILL 40

CZ L43D 1

I GEOTECH KS-2000ED 30

GR Free field bedrock G60s 60 PS6-SC 100 1 NOA Evan 1 1 NOA 1 1

D CMG-3ESPC 60s 60

B A 1

TR 120 120

GR Urban free field concrete G120s 120 Guralp DM24 100 2 UPAT Soko 1 1 NOA 1 1

I NANOMETRICS TRILL 40

GR CMG-3ESP 100s (200) 100 Janus-Trident 40 Vpp (Gain 1) 1 1 1

GR Apeiranthos, Naxos Special bedrock STS2 120 PS6-SC 100 1 NOA Evan 1 1 NOA 1 1

I NANOMETRICS TRILL 40

IV APIE 43.55846 12.41991 488 1

IV APPI 46.47868 11.22813 1056 1

IV APRC 41.75738 15.54308 672 1

MN AQU 42.354 13.405 1 L'Aquila, Italy

FR ARBF 43.491700 5.332500 1 technopole de l'Arbois - 13001, F

CA ARBS 42.434492 1.533754 0 E G120 120

RO ARCB 44.4667 26.0758 125 1 Arcul de Triumf RO building concrete Episensor_2g_2_5vfs 2 1 k2 100 4 NIEP 1 0 0 0

IV ARCI 42.8519 11.4754 1080 1

NL ARCN 51.5013 6.1942 0

RO ARCR 47.0855 24.3537 385 1 Arcalia RO underground shaft concrete STS2 120 Q330 100 3 NIEP 1 0 0 0

HL ARG 36.21356 28.12122 1 Archaggelos, Rhodes GR Special bedrock Lennartz20s 20 0 DR24 100 2 NOA Evan 1 1 NOA 1 1

KO ARMT 40.5683 28.866 320 0

RO ARR 45.3657 24.6332 871 1 Vidraru RO special bedrock CMG3ESP 59 Q330 100 3 NIEP 1 1 NIEP 1 1

IV ARRO 42.57917 12.76567 253 1

OE ARSA 47.250500 15.523200 1 Arzberg, Steiermark A STS2 120

FR ARTF 43.588200 5.806700 1 Artigues - 83006 - Var - Provence, F Trillium 120PH 120

IV ARVD 43.49807 12.94153 461 1

RO ASE 44.4445 26.0904 85 1 Academia de Studii Economice RO building concrete Episensor_2g_2_5vfs 2 1 k2 100 4 NIEP 1 0 0 0

IV ASOL 45.8003 11.9023 181 1

IV ASQU 43.7967 11.7893 860 1

IV ASSB 43.0426 12.6587 734 1

HA ATAL 38.6926 23.0213 1 Atalanti GR G120s 120 100 NKUA G.Ka 1 1 NOA 1 1

IV ATBU 43.47571 12.54828 1000 1

IV ATCC 43.18514 12.63994 557 1

FR ATE 43.085800 -0.700700 0 Arette - 64040 - Pyrenees-Atlan, F STS2 120 DR24 100 1 NOA Evan 1 1 NOA 1 1

IV ATFO 43.3666 12.5715 960 1

GR Special bedrock STS2 120 100 NKUA G.Ka 1 1 NOA 1 1

HL ATH 37.97384 23.71767 1 Athens GR G60s 60

HA ATHU 37.9665 23.7845 1 AthensUniversity GR LENNARTZ LE3D-5S 5

IV ATLO 43.31516 12.40726 584 1

NANOMETRICS TRILL 40

LENNARTZ LE3D-5S 5

NANOMETRICS EPISE 1

NANOMETRICS TRILL 120

NANOMETRICS TRILL 40

G120s 120

LENNARTZ LE3D-5S 5

NANOMETRICS EPISE 1

NANOMETRICS TRILL 120

NANOMETRICS TRILL 40

LENNARTZ LE3D-5S 5

DR24 100 1 NOA Evan 1 1 NOA 1 1

DR24 100 1 NOA Evan 1 1 NOA 1 1

Celkem=0

110%

Stations

List 1/1 PageStyle_Stations STD * Celkem=0

- Python script (725 lines) to distill the required information from the sheet
- produces files for plotting by GMT (script 1794 lines)

```

d: > 16AdriaArray > stations > xmaps2 > extract.py
85     citacBB30 = citacBB30 + 1
86     outBB30.write ("\"%s\n" % (str(inventory.iloc[n,3]) + ' ' + str(inventory.iloc[n,2]))) # s
87     csvBB30.write ("\"%s\n" % (str(inventory.iloc[n,2]) + ' ' + str(inventory.iloc[n,3]) + ' ' +
88     csvBB300.write("\"%s\n" % (str(inventory.iloc[n,2]) + ' ' + str(inventory.iloc[n,3]) + ',30
89     csvBB3040.write("\"%s\n" % (str(inventory.iloc[n,2]) + ' ' + str(inventory.iloc[n,3]) + ',40
90     labBB30.write ("\"%s\n" % (str(inventory.iloc[n,3]) + ' ' + str(inventory.iloc[n,2]) + '\t'
91     # BB 40 out
92     if inventory.iloc[n,5] == 0 and inventory.iloc[n,11] >= 30 and inventory.iloc[n,11] < 40: # to
93         citacBB40 = citacBB30 + 1
94         outBB40.write("%s\n" % (str(inventory.iloc[n,3]) + ' ' + str(inventory.iloc[n,2]))) # st
95         labBB40.write("%s\n" % (str(inventory.iloc[n,3]) + ' ' + str(inventory.iloc[n,2]) + '\t'
96     # BB 40 in
97     if inventory.iloc[n,5] == 1 and inventory.iloc[n,11] >= 40 and inventory.iloc[n,11] < 50: # to
98         citacBB40 = citacBB40 + 1
99         outBB40.write ("\"%s\n" % (str(inventory.iloc[n,3]) + ' ' + str(inventory.iloc[n,2]))) # s
100        csvBB40.write ("\"%s\n" % (str(inventory.iloc[n,2]) + ' ' + str(inventory.iloc[n,3]) + ' '
101        csvBB400.write("\"%s\n" % (str(inventory.iloc[n,2]) + ' ' + str(inventory.iloc[n,3]) + ',30
102        csvBB4040.write("\"%s\n" % (str(inventory.iloc[n,2]) + ' ' + str(inventory.iloc[n,3]) + ',40
103        labBB40.write ("\"%s\n" % (str(inventory.iloc[n,3]) + ' ' + str(inventory.iloc[n,2]) + '\t'
104     # BB 40 out
105     if inventory.iloc[n,5] == 0 and inventory.iloc[n,11] >= 40 and inventory.iloc[n,11] < 50: # to
106         citacBB40 = citacBB40 + 1
107         outBB40.write("%s\n" % (str(inventory.iloc[n,3]) + ' ' + str(inventory.iloc[n,2]))) # st
108         labBB40.write("%s\n" % (str(inventory.iloc[n,3]) + ' ' + str(inventory.iloc[n,2]) + '\t'
109     # BB 60 in
110     if inventory.iloc[n,5] == 1 and inventory.iloc[n,11] >= 50: # to
111         citacBB60 = citacBB60 + 1
112         outBB60.write ("\"%s\n" % (str(inventory.iloc[n,3]) + ' ' + str(inventory.iloc[n,2]))) # s
113         csvBB60.write ("\"%s\n" % (str(inventory.iloc[n,2]) + ' ' + str(inventory.iloc[n,3]) + ' '
114         csvBB600.write("\"%s\n" % (str(inventory.iloc[n,2]) + ' ' + str(inventory.iloc[n,3]) + ',30
115         csvBB6040.write("\"%s\n" % (str(inventory.iloc[n,2]) + ' ' + str(inventory.iloc[n,3]) + ',40
116         labBB60.write ("\"%s\n" % (str(inventory.iloc[n,3]) + ' ' + str(inventory.iloc[n,2]) + '\t'
117     # BB 60 out
118     if inventory.iloc[n,5] == 0 and inventory.iloc[n,11] >= 50: # to
119         citacBB60 = citacBB60 + 1
120         outBB60.write("%s\n" % (str(inventory.iloc[n,3]) + ' ' + str(inventory.iloc[n,2]))) # st
121         labBB60.write("%s\n" % (str(inventory.iloc[n,3]) + ' ' + str(inventory.iloc[n,2]) + '\t'
122     # UNKN in
123     if inventory.iloc[n,5] == 1 and math.isnan(inventory.iloc[n,11]) and math.isnan(inventory.iloc
124         citacUNKN = citacUNKN + 1
125         outUNKN.write("\"%s\n" % (str(inventory.iloc[n,3]) + ' ' + str(inventory.iloc[n,2]))) # sta
126         labUNKN.write("%s\n" % (str(inventory.iloc[n,3]) + ' ' + str(inventory.iloc[n,2]) + '\t' +
127         csvUNKN.write("\"%s\n" % (str(inventory.iloc[n,2]) + ' ' + str(inventory.iloc[n,3]) + ' ' +
128     # UNKN out
129     if inventory.iloc[n,5] == 0 and math.isnan(inventory.iloc[n,11]) and math.isnan(inventory.iloc
130         citacUNKN0 = citacUNKN0 + 1
131         outUNKN0.write("\"%s\n" % (str(inventory.iloc[n,3]) + ' ' + str(inventory.iloc[n,2]))) # st
132         labUNKN0.write("%s\n" % (str(inventory.iloc[n,3]) + ' ' + str(inventory.iloc[n,2]) + '\t' +
133     # SPOT - always in
134     if math.isnan(inventory.iloc[n,11]) and inventory.iloc[n,12] == 1: # pokud je corner pr
135         citacSPOT = citacSPOT + 1

```

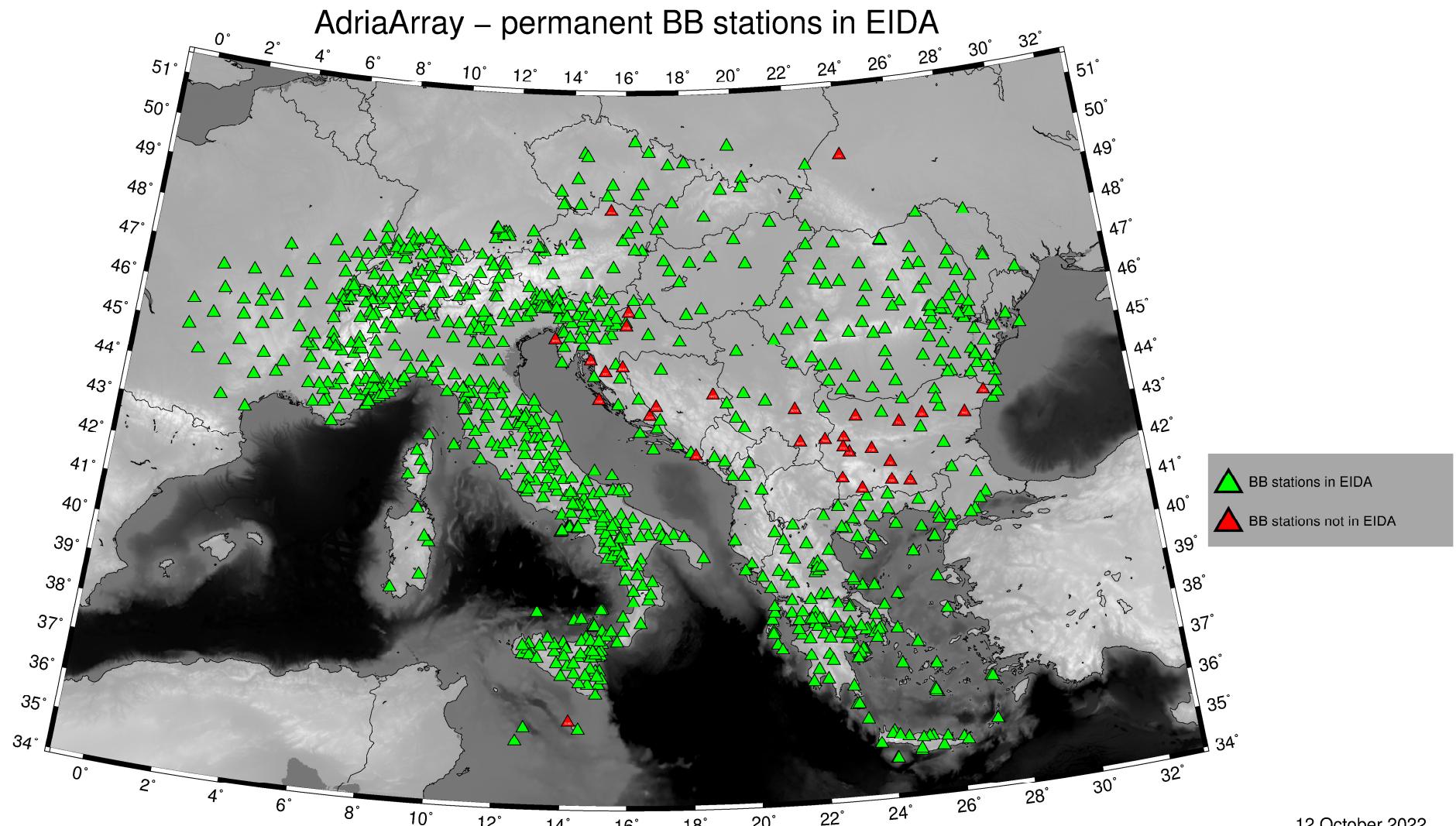
when the „final“ version of inventory and scripts are ready, they will be **freely available** for anyone for plotting the station maps

```

1. aktuality.html 2. usuketecne20.html 3. fotkyzakoi20.html 4. menu.html 5. zapisy.html 6. index.html 7. fero.css 8. orbis.sh 9. global.sh 10. availableMap.sh 11. figMap.sh 12. figDensity.sh 13. figAdriaGP.sh
dose2unix pNOSP.txt
psxy pNOSP.txt          -R -JL -St$sizeps -G$nbsp -W$thps/$blk -K -O > Spsfile01 # vyhodit pro Renatu
psxy pNOSP.txt          -R -JL -St$sizeps -G$nbsp -W$thps/$blk -K -O > Spsfile10 # vyhodit pro Renatu
dose2unix pWHIT.txt
psxy pWHIT.txt          -R -JL -St$sizeps -G$nbsp -W$thps/$blk -K -O > Spsfile01
psxy pWHIT.txt          -R -JL -St$sizeps -G$nbsp -W$thps/$blk -K -O > Spsfile10
dose2unix pWHIT0.txt
psxy pWHIT0.txt          -R -JL -St$sizeps -G$nbsp -W$thps/$blk -K -O > Spsfile01
psxy pWHIT0.txt          -R -JL -St$sizeps -G$nbsp -W$thps/$blk -K -O > Spsfile10
awk -v awk_diam30=$diam30 '(print $1, $2, "0.0 \" awk_diam30" " awk_diam30)' pWHIT.txt > circlesWHIT30.dat
awk -v awk_diam40=$diam40 '(print $1, $2, "0.0 \" awk_diam40" " awk_diam40)' pWHIT.txt > circlesWHIT40.dat
dose2unix pSPOT.txt
psxy pSPOT.txt          -R -JL -St$sizeps -G$spot -W$thps/$blk -K -O > Spsfile01
psxy pSPOT.txt          -R -JL -St$sizeps -G$spot -W$thps/$blk -K -O > Spsfile10
awk -v awk_diam30=$diam30 '(print $1, $2, "0.0 \" awk_diam30" " awk_diam30)' pSPOT.txt > circlesSPOT30.dat
awk -v awk_diam40=$diam40 '(print $1, $2, "0.0 \" awk_diam40" " awk_diam40)' pSPOT.txt > circlesSPOT40.dat
dose2unix pUNKN.txt
psxy pUNKN.txt          -R -JL -St$sizeps -G$unkn -W$thps/$blk -K -O > Spsfile01
psxy pUNKN.txt          -R -JL -St$sizeps -G$unkn -W$thps/$blk -K -O > Spsfile10
psxy pUNKNO.txt         -R -JL -St$sizeps -G$unkn -W$thps/$blk -K -O > Spsfile01
psxy pUNKNO.txt         -R -JL -St$sizeps -G$unkn -W$thps/$blk -K -O > Spsfile10
psxy pUNKN0.txt          -R -JL -St$sizeps -G$unkn -W$thps/$blk -K -O > Spsfile01
psxy pUNKN0.txt          -R -JL -St$sizeps -G$unkn -W$thps/$blk -K -O > Spsfile10
psxy pUNKNN.txt         -R -JL -St$sizeps -G$unkn -W$thps/$blk -K -O > Spsfile02
psxy pUNKNN.txt         -R -JL -St$sizeps -G$unkn -W$thps/$blk -K -O > Spsfile10
psxy pUNKNN0.txt        -R -JL -St$sizeps -G$unkn -W$thps/$blk -K -O > Spsfile02
psxy pUNKNN0.txt        -R -JL -St$sizeps -G$unkn -W$thps/$blk -K -O > Spsfile10
awk -v awk_diam30=$diam30 '(print $1, $2, "0.0 \" awk_diam30" " awk_diam30)' pUNKN.txt > circlesUNKN30.dat
awk -v awk_diam40=$diam40 '(print $1, $2, "0.0 \" awk_diam40" " awk_diam40)' pUNKN.txt > circlesUNKN40.dat
dose2unix pUPGR.txt
psxy pUPGR.txt          -R -JL -St$sizeps -G$upgr -W$thps/$blk -K -O > Spsfile01
psxy pUPGR.txt          -R -JL -St$sizeps -G$upgr -W$thps/$blk -K -O > Spsfile10
awk -v awk_diam30=$diam30 '(print $1, $2, "0.0 \" awk_diam30" " awk_diam30)' pUPGR.txt > circlesUPGR30.dat
awk -v awk_diam40=$diam40 '(print $1, $2, "0.0 \" awk_diam40" " awk_diam40)' pUPGR.txt > circlesUPGR40.dat
dose2unix PACASEstay.txt
psxy stations-PACASEstay.txt -R -JL -St$sizeps -G$pcse -W$thps/$blk -K -O > Spsfile01 # tady muze umazato to "stay" a namal
psxy stations-PACASEstay.txt -R -JL -St$sizeps -G$pcse -W$thps/$blk -K -O > Spsfile02 # tady muze umazato to "stay" a namal
awk -v awk_ts=$ts '(print $3, $2, awk ts " 0 0 TC", $1)' PACASEstay.txt > stations-PACASEstayLABEL.txt
awk -v awk_diam30=$diam30 '(print $1, $2, "0.0 \" awk_diam30" " awk_diam30)' stations-PACASEstay.txt > circlesPCSE30.dat
awk -v awk_diam40=$diam40 '(print $1, $2, "0.0 \" awk_diam40" " awk_diam40)' stations-PACASEstay.txt > circlesPCSE40.dat
dos2unix pBB30.txt
psxy pBB30.txt          -R -JL -St$sizeps -G$bb30 -W$thps/$blk -K -O > Spsfile01
psxy pBB30.txt          -R -JL -St$sizeps -G$bb30 -W$thps/$blk -K -O > Spsfile01
psxy pBB30.txt          -R -JL -St$sizeps -G$bb30 -W$thps/$blk -K -O > Spsfile10
psxy pBB30.txt          -R -JL -St$sizeps -G$bb30 -W$thps/$blk -K -O > Spsfile10
psxy pBB300.txt         -R -JL -St$sizeps -G$bb300 -W$thps/$blk -K -O > Spsfile01
psxy pBB300.txt         -R -JL -St$sizeps -G$bb300 -W$thps/$blk -K -O > Spsfile01
psxy pBB300.txt         -R -JL -St$sizeps -G$bb300 -W$thps/$blk -K -O > Spsfile09
psxy pBB300.txt         -R -JL -St$sizeps -G$bb300 -W$thps/$blk -K -O > Spsfile09
psxy pBB300.txt         -R -JL -St$sizeps -G$bb300 -W$thps/$blk -K -O > Spsfile02
psxy pBB300.txt         -R -JL -St$sizeps -G$bb300 -W$thps/$blk -K -O > Spsfile02
psxy pBB300.txt         -R -JL -St$sizeps -G$bb300 -W$thps/$blk -K -O > Spsfile03
psxy pBB300.txt         -R -JL -St$sizeps -G$bb300 -W$thps/$blk -K -O > Spsfile03
psxy pBB300.txt         -R -JL -St$sizeps -G$bb300 -W$thps/$blk -K -O > Spsfile07
psxy pBB300.txt         -R -JL -St$sizeps -G$bb300 -W$thps/$blk -K -O > Spsfile07
awk -v awk_diam30=$diam30 '(print $1, $2, "0.0 \" awk_diam30" " awk_diam30)" pBB30.txt > circlesBB3030.dat

```

from that **971** permanent stations, **940** are already in EIDA (96.8%)
=> 31 are not in EIDA

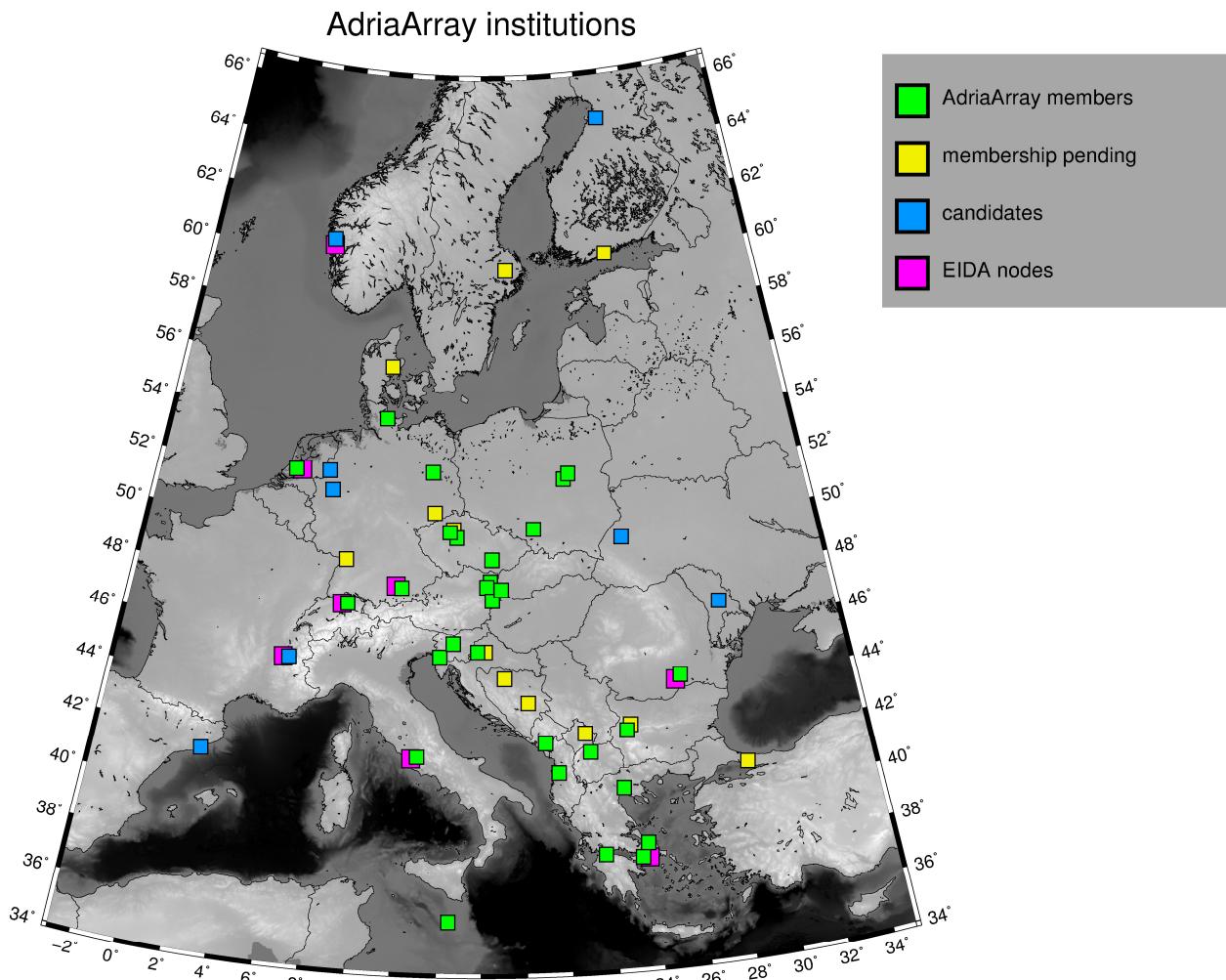


AdriaArray

Seismology Group

(October, 2022)

49 interested institutions from **27** countries (alphabetical order by countries)



MEMBERS:

IGEWE-PUT, Tirana, Albania
Uni Vienna, Austria
ZAMG, Austria
NIGGG, BAS, Bulgaria
Uni Zagreb, Croatia
Charles Uni, Prague, Czech Republic
IG, CAS, Prague, Czech Republic
IPE, Masaryk Uni, Brno, Czech Republic
Uni Kiel, Germany
LMU München, Germany
GFZ Potsdam, Germany
NOA, Greece
Uni Athens, Greece
Uni Thessaloniki, Greece
Uni Patras, Greece
EPSS, Hungary
INGV, Italy
OGS, Trieste, Italy
Uni Sts. Cyril and Methodius, Skopje, N. Macedonia
Uni Malta
MSS, Podgorica, Montenegro
IG PAS, Warsaw, Poland
Uni Silesia, Katowice, Poland
Uni Warszawa, Poland
NIEP, Romania
ESI SAV, Bratislava, Slovakia
SSS, Ljubljana, Slovenia
ETH, Zürich, Switzerland
ORFEUS

PENDING:

SC FHMZ, Sarajevo, Bosnia and Herzegovina
GS Republic of Srpska, Bosnia and Herzegovina
Uni Sofia, Bulgaria
CSS, Zagreb, Croatia
IRSM, CAS, Prague, Czech Republic
Uni Aarhus, Denmark
Uni Helsinki, Finland
Karlsruhe I.T., Germany
TU Freiberg, Germany
GS Kosovo, Pristina, Kosovo
Uni Uppsala, Sweden,
KOERI, Turkiye

CANDIDATES:

Uni Oulu, Finland
RESIF-Sismob, France
Uni Bochum, Germany
IGS-CES, Chisinau, Moldova
Uni Twente, the Netherlands
Norwegian Broadband Pool, Norway
ICTJA-CSIC, Barcelona, Spain
IoG, NAS, Ukraine

	Poland	Ukr.-Carp.	Ukr.-Coast	Moldavia	Romania	Bulgaria	sum columns	available	spare
IG CzechRep					8	10	18	18	0
IRSM Czech Rep					4		4	0	-4
Denmark					4	15	19	19	0
Helsinki					16		16	20	4
NIEP				3			3	3	0
Oulu					9		9	10	1
???			2				2	0	-2
Poland	13	14					27	29	2
							98	99	1
sum of rows	13	14	2	3	41	25	98 sums	available	spare
needed	13	14	2	3	41	25	98 needed		
30s NOT replaced									
NORTH	CzechRep	Austria	Slovakia	Hungary	Serbia	Germany	sum columns	available	spare
UniWien		19	9				28	30	2
IG CzechRep	15		20				35	35	0
Hungary PACASE				11			11	11	0
Hungary new				4			4	4	0
Kiel		15	15		8		38	40	2
							116	120	4
sum of rows	15	34	29	30	0	8	116 sums	available	spare
needed	15	34	29	30	0	8	116 needed		
CENTER	Croatia	BiH	N. Italy	Slovenia			sum columns	available	spare
NorwPool+Zag	10	1					11	12	1
CroSeismSurvey	19						19	19	0
ETH		20					20	20	0
OGS			6				6	6	0
INGV Bologna			1				1	1	0
the Netherlands			9				9	9	0
							66	67	1
sum of rows	29	21	16	0			66 sums	available	spare
needed	29	21	16	0			66 needed		
SOUTHEAST	Albania	N. Macedonia	Montenegro	Kosovo	Greece		sum columns	available	spare
Bochum		13			38		51	54	3
Munich	9		7	3			19	20	1
KIT	5						5	5	0
Kosovo Pool				3			3	3	0
Montenegro Pool		3					3	3	0
							81	85	4
sum of rows	14	13	10	6	38		81 sums	available	spare
needed	14	13	10	6	38		81 needed		
WEST	Apulia	Sicily	Sardinia	Massif Cent.	Switzerland		sum columns	available	spare
Spain	4						4	5	1
???			9				9	0	
France				35			35	35	0
							48	40	-8
sum of rows	4	0	9	35	0		48 sums	available	spare
needed	4	0	9	35	0		48 needed		
							total needed	409 total available	411

numbers:

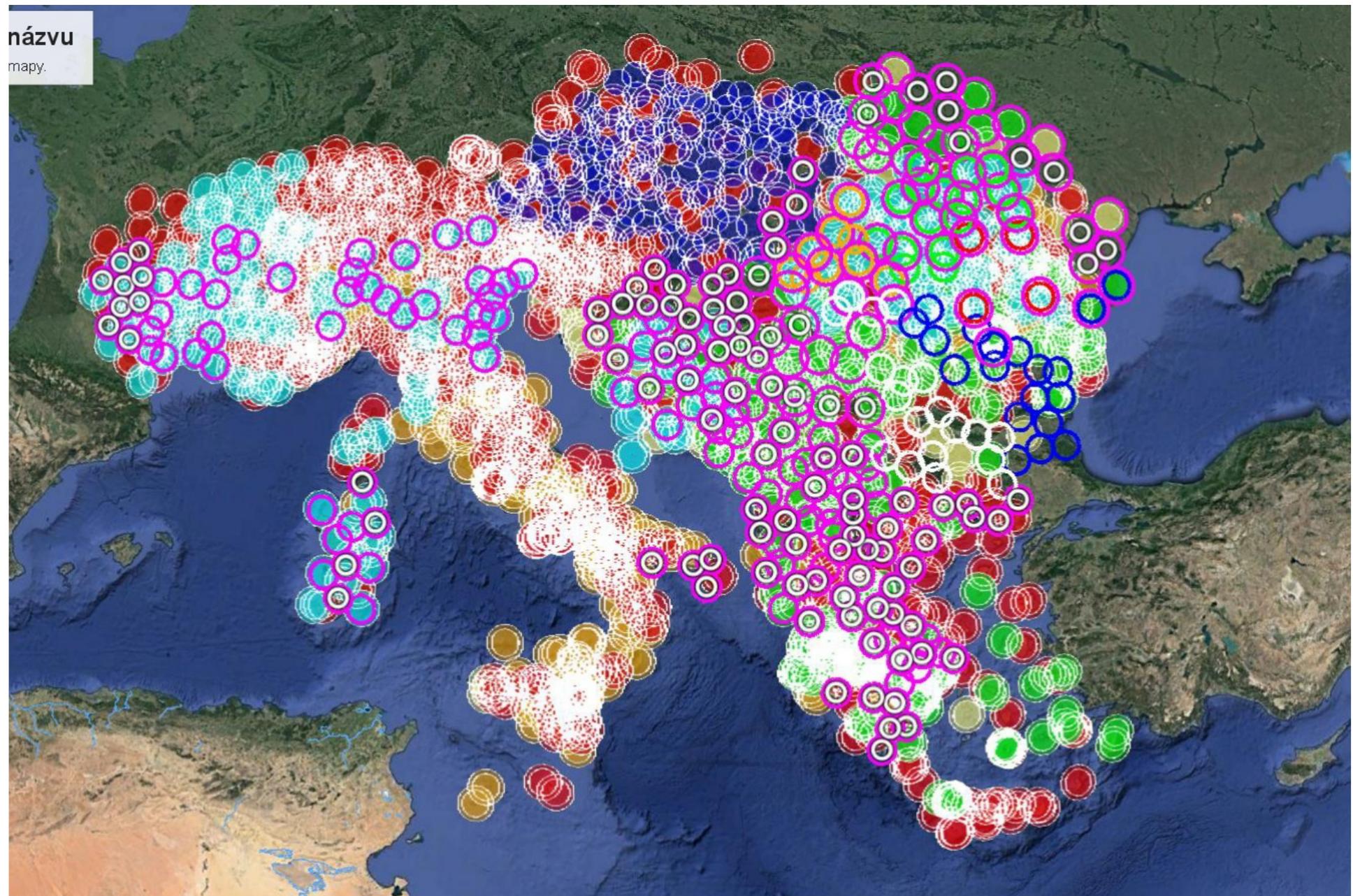
we need **409** temporary stations

246 out of these ARE ALREADY deployed (including the PACASE project)

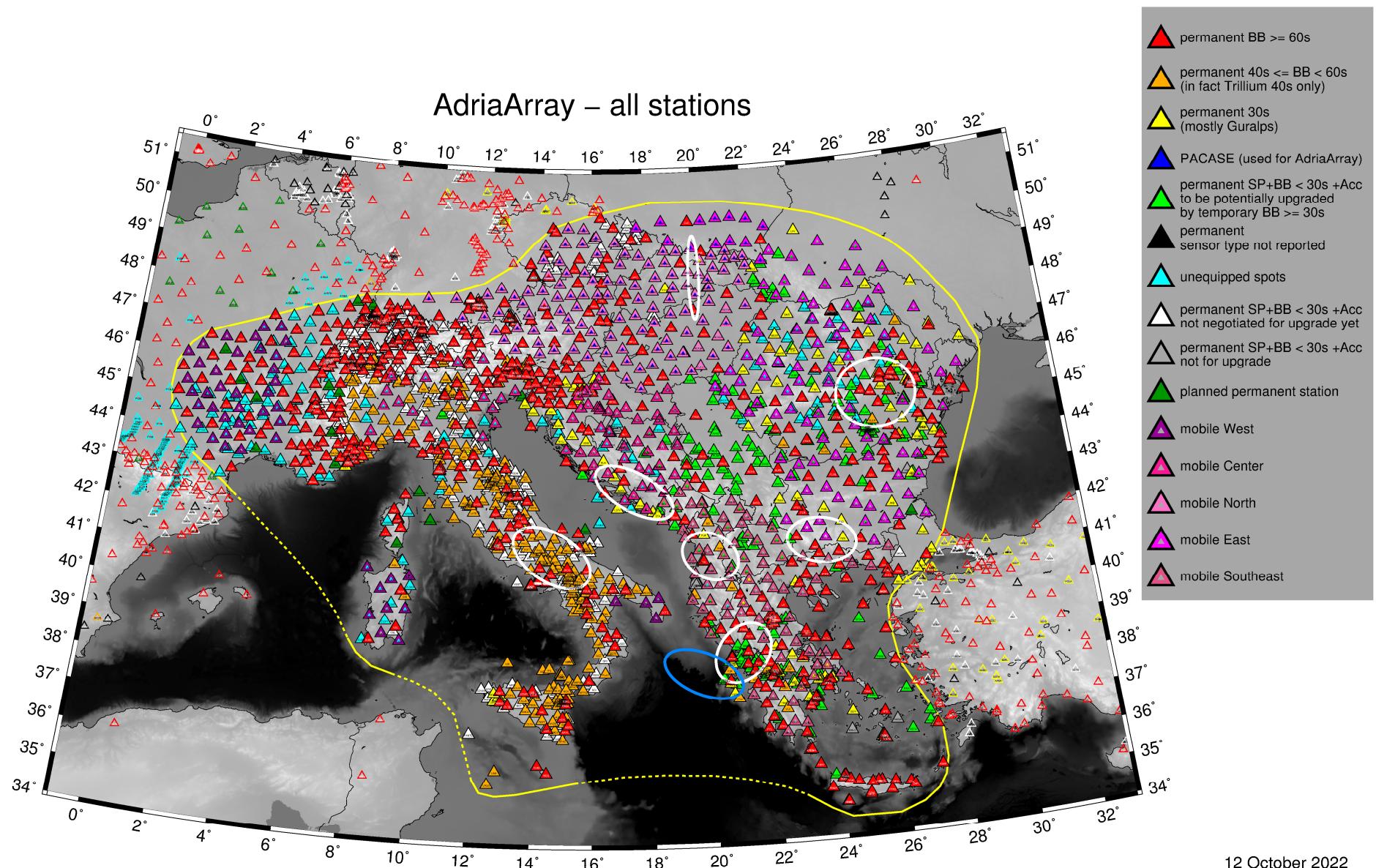
meaning, “only” **163** stations to go!

October + November 2022 = most of the stations will be deployed

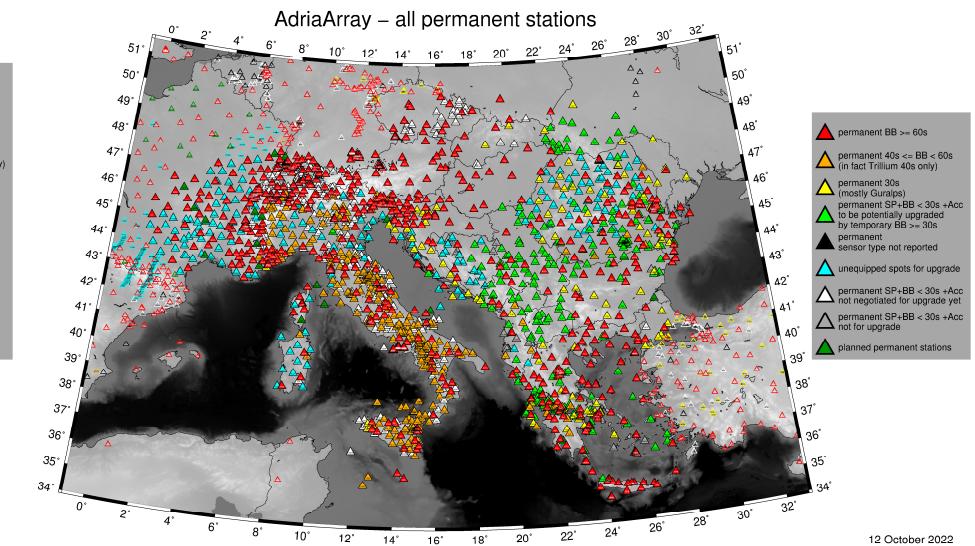
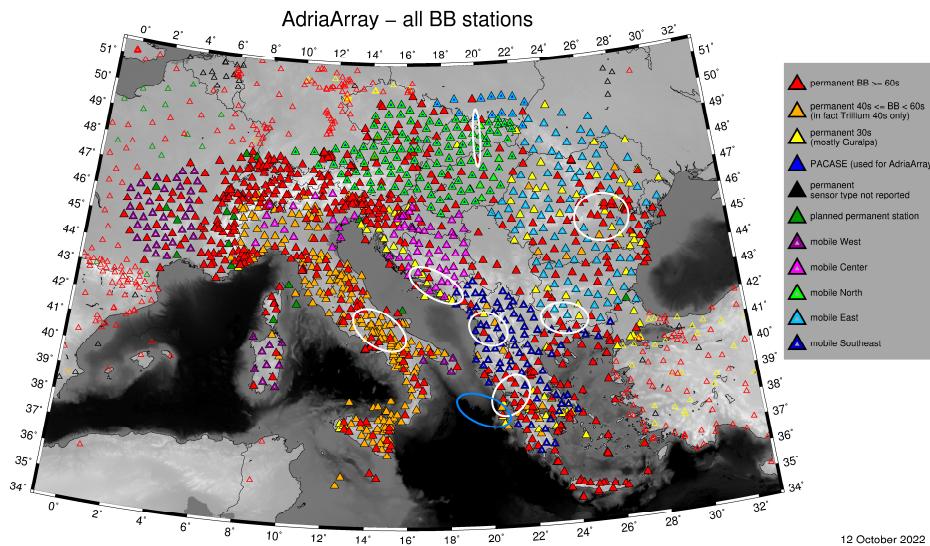
deployment of mobile stations – handmade in GoogleEarth



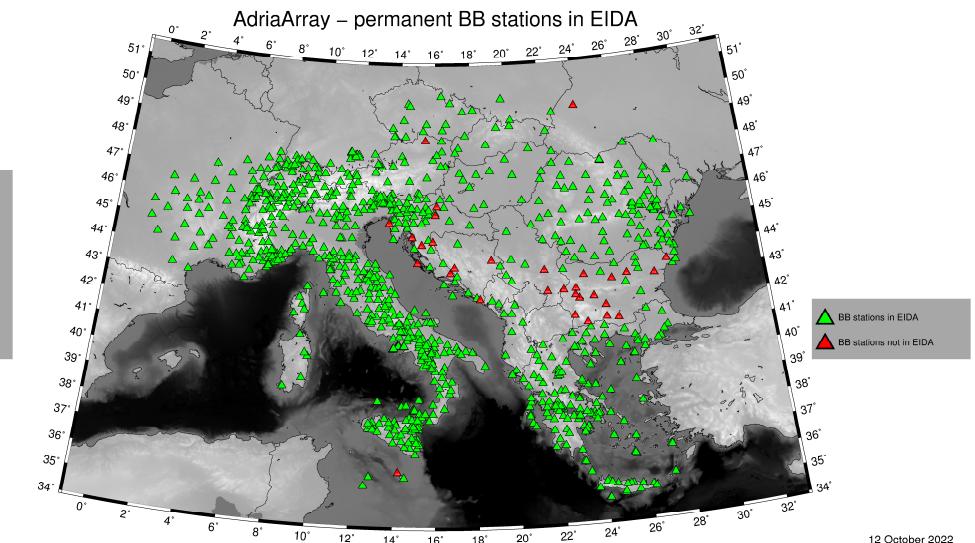
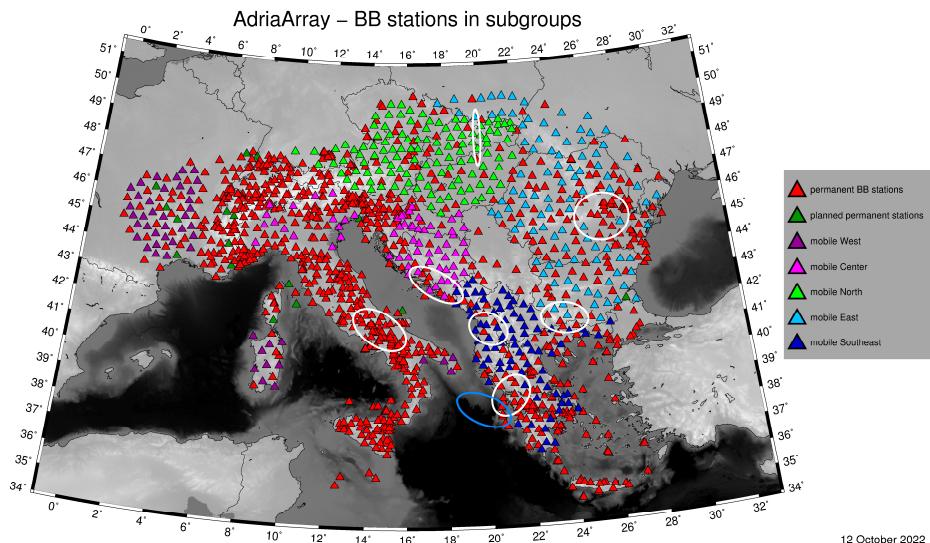
Adria Array – all permanent stations + mobile stations



12 October 2022

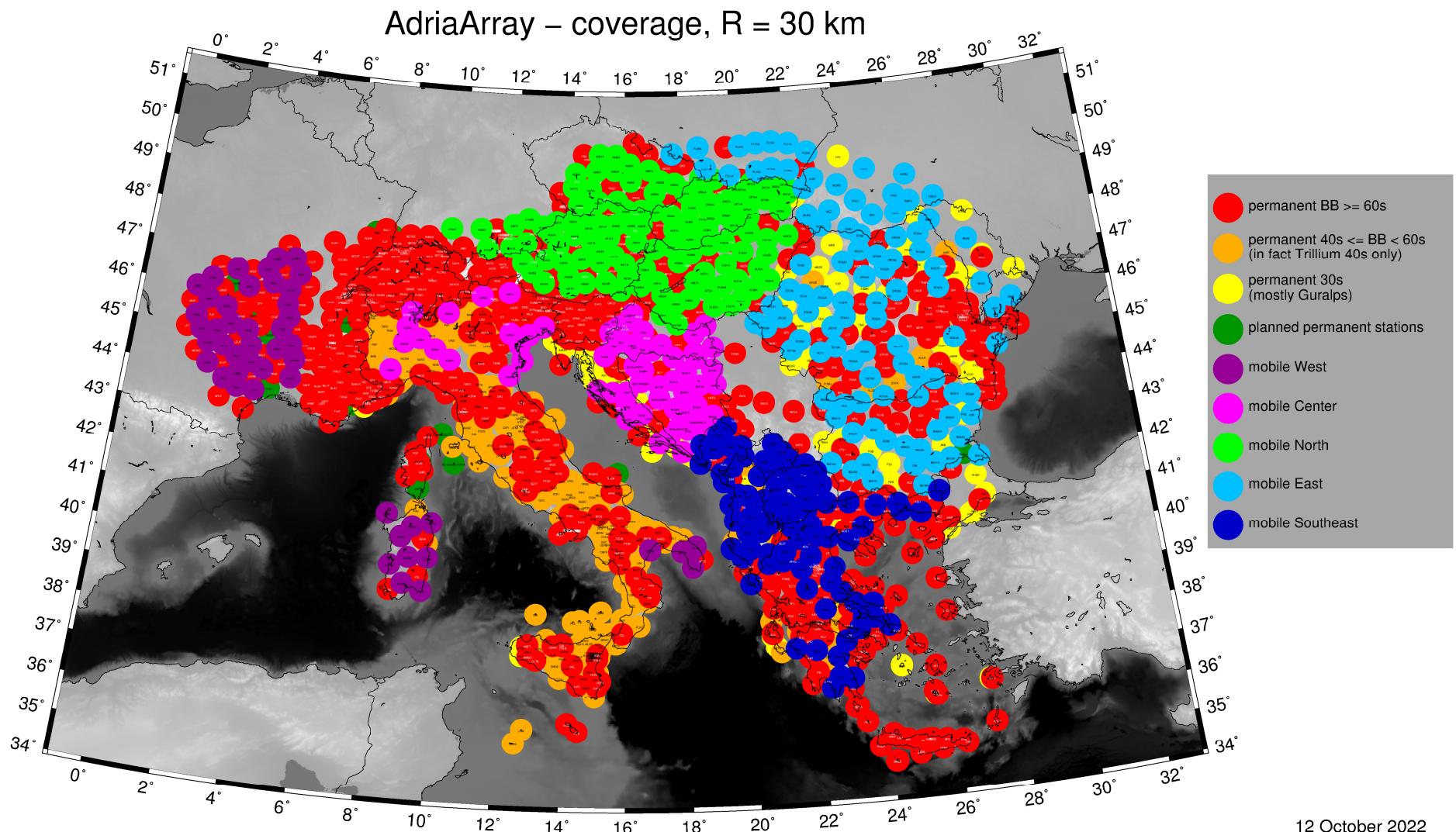


various versions of the map – different levels of information plotted



coverage

30 km

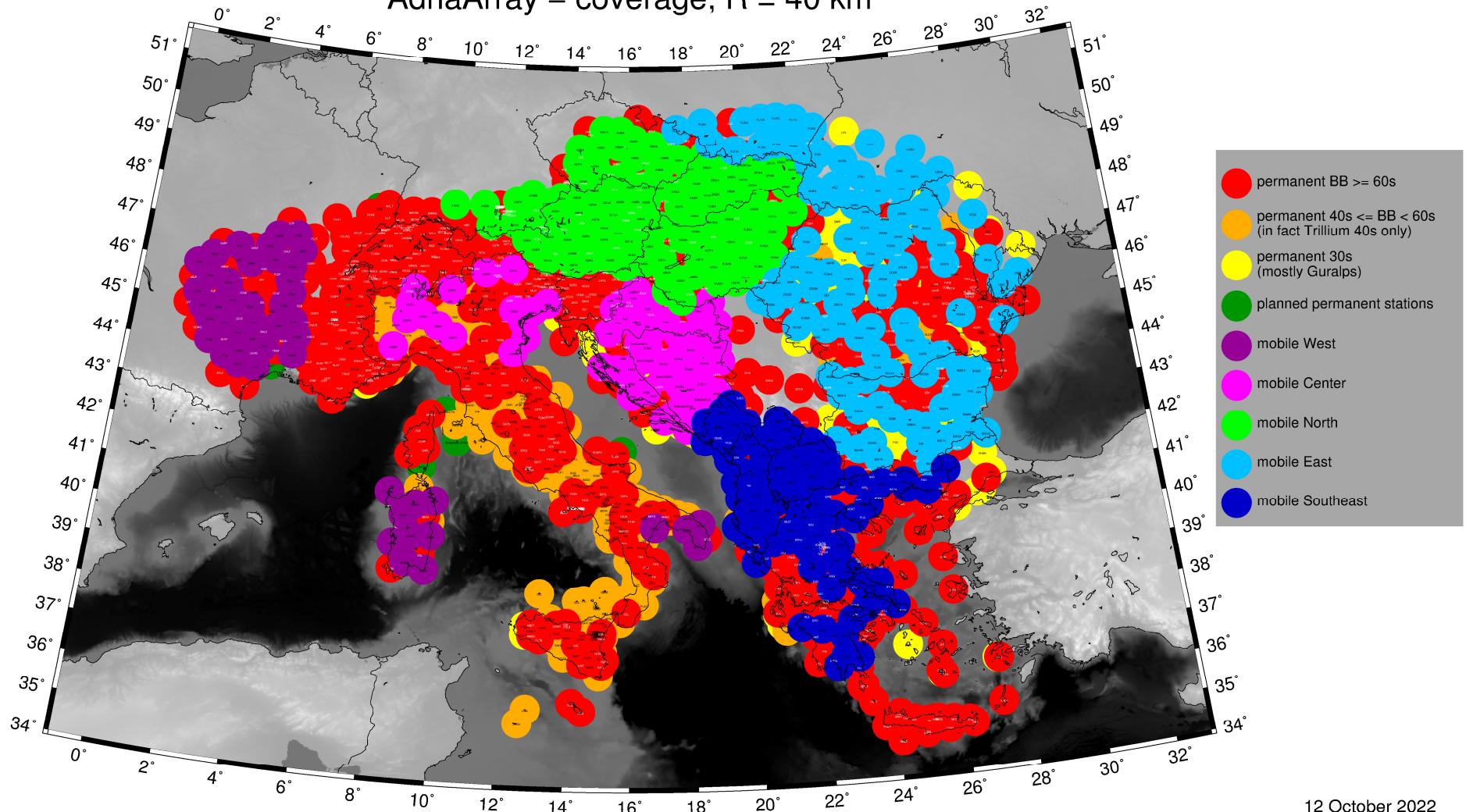


12 October 2022

coverage

40 km

AdriaArray – coverage, $R = 40$ km



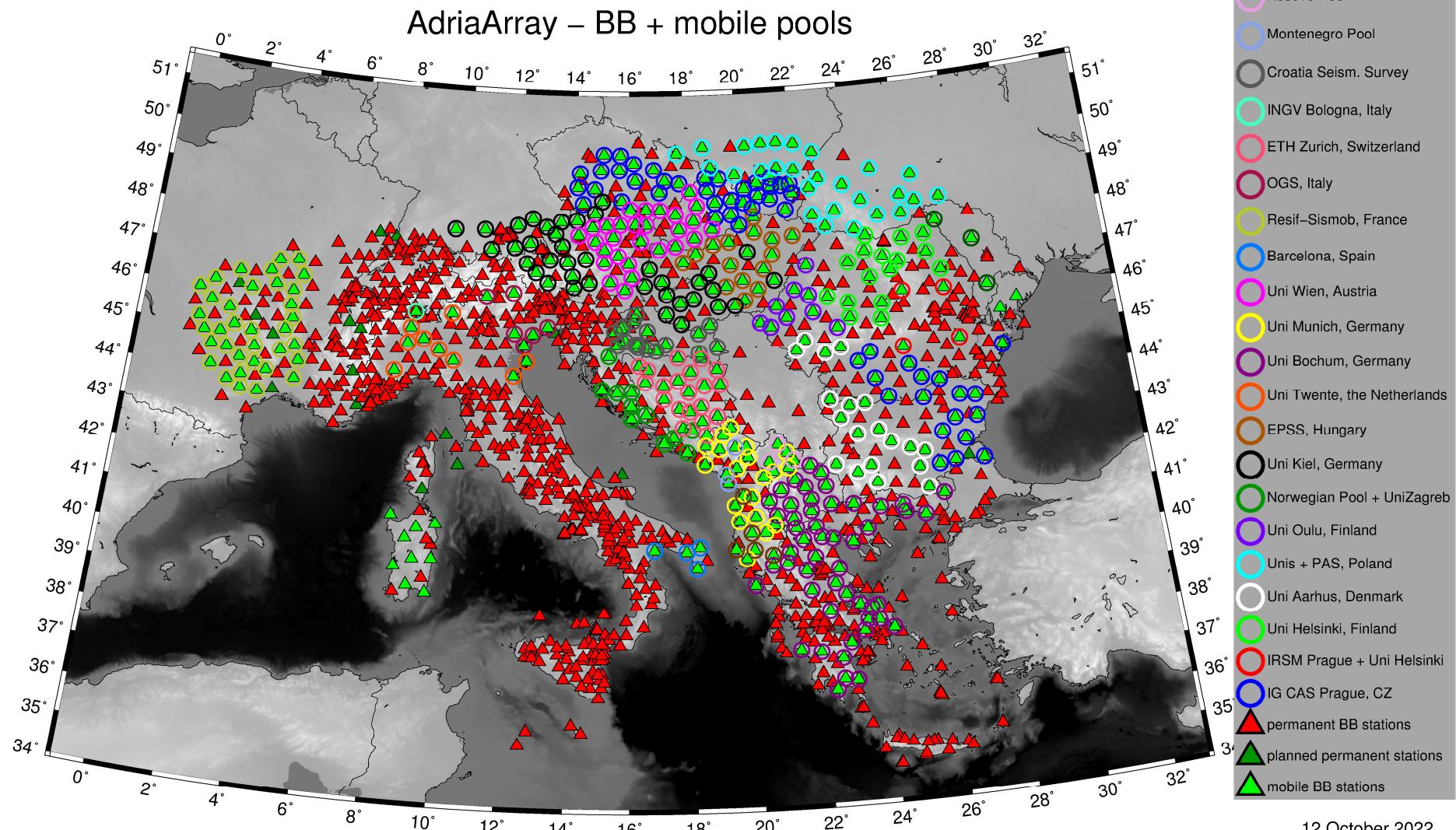
12 October 2022

mobile pools assigned to the stations

409 BB mobile stations

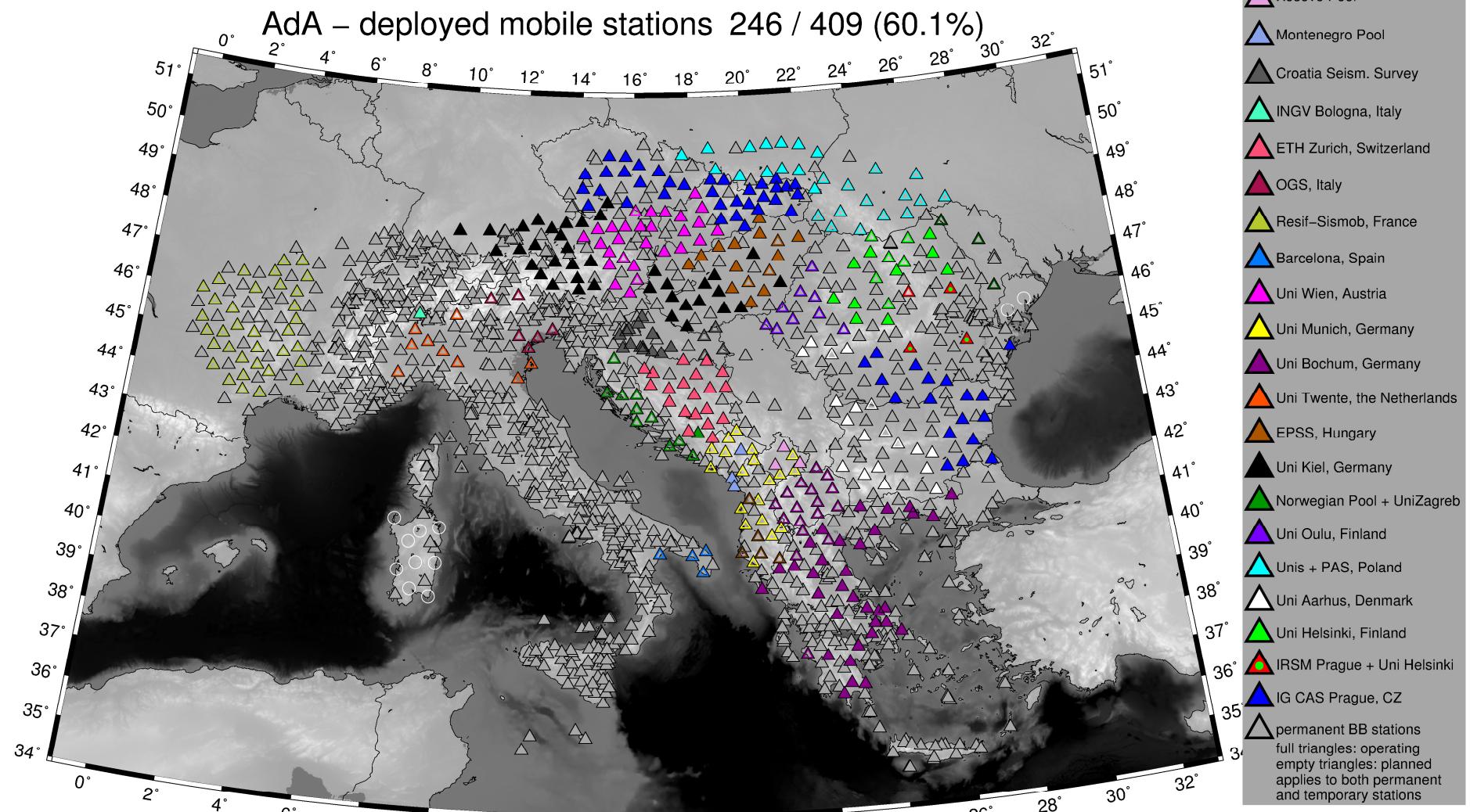
971 BB permanent stations

--> 1380 BB stations in total



12 October 2022

deployed stations



12 October 2022

ORFEUS + EPOS

support from Orfeus/EPOS is crucial for the AdriaArray

AdriaArray idea and Orfeus/EPOS are aiming
in the same direction, focusing on different aspects

infrastructure + science + networking

- archival of data at regional EIDA nodes
- support to AdA workshops via EPOS SP

Datacenter ID	Description and Focus Region
ODC - KNMI	European-Mediterranean, Netherlands
GFZ	European, Global, temporary deployments
RESIF	France + Global temporary deployments
INGV	Italy, European-Mediterranean (MedNet)
ETHZ	Switzerland
BGR	Germany
LMU	Germany (BayernNetz)
NIEP	Romania
KOERI	Turkey
NOA	Greece
UIB - NORSAR	Norway
ICGC	Spain

from the Orfeus web page:

ORFEUS Observatories & Research Facilities for European Seismology

ORFEUS is the non-profit foundation to coordinate and promote digital, broadband seismology in the European-Mediterranean area.

EIDA is the European Integrated Data Archive infrastructure within ORFEUS to provide access to seismic waveform data in European archives.

- guidelines for quality control and data management being developed

poster -->

breakout sessions tomorrow

acknowledgements

Maps plotted using GMT by Wessel, P., Smith, W. H. F., Scharroo, R., Luis, J. F. and Wobbe, F., 2013: Generic Mapping Tools: Improved version released, EOS Trans. AGU, 94, 409-410.

AlpArray stations by the AlpArray Working Group www.alparray.ethz.ch.

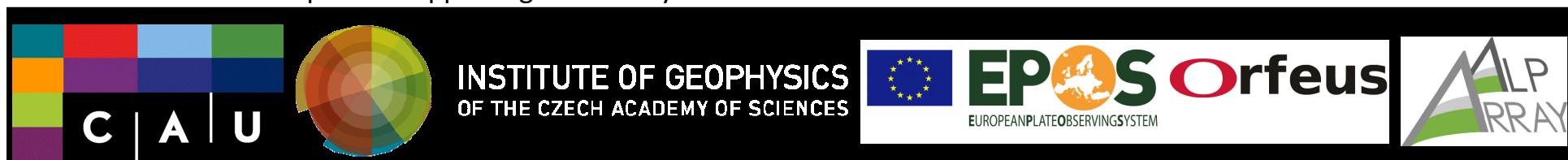
Permanent stations by national seismological services and ORFEUS-EIDA.

Big thanks to all the network operators for supplying the permanent station information.

PACASE station information thanks to György, Jarka and Antje.

Thanks to Orfeus + Epos for supporting AdriaArray.

petr.kolinsky@ig.cas.cz



Thomas: Collaborative Research Groups (CRGs)

Cédric: Outcome of the questionnaire

Frederik: Seismicity WG idea

virtual network

EIDA node	network code	mobile pool	open / embargo	country
NOA	1Y	Uni Bochum		Greece Northern Macedonia
NIEP	Y8	MOBNET IG CAS CZ	embargo	Romania Bulgaria
		Uni Aarhus	embargo	Romania Bulgaria
		Uni Oulu		Romania
		Uni Helsinki		Romania
		Polish AdA Group	embargo	Poland Ukraine
		NIEP		Moldova
		IRSM CAS CZ	embargo	Romania
LMU	Z6	MOBNET IG CAS CZ	embargo	Slovakia Czech Republic
		Kiel	embargo	Germany Austria
		EPSS Hungary	embargo	Hungary
		LMU	embargo	Hungary Albania
				Montenegro Kosovo
		Montenegro pool	embargo	Montenegro
		KIT		Albania
		Kosovo pool	embargo	Kosovo
ODC	7B	UniWien	open	Austria Slovakia
		Croatian Seism. Survey	open	Croatia
Bergen	9H	Uni Zagreb+Norwegian Pool	embargo	Croatia BiH
ETH	Y5	ETH	open	BiH
INGV	2Y	OGS	embargo	Italy
	?	INGV Bologna		Italy
		Uni Twente		Italy
		Barcelona		Italy
RESIF	?	Resif-Sismob	open	France

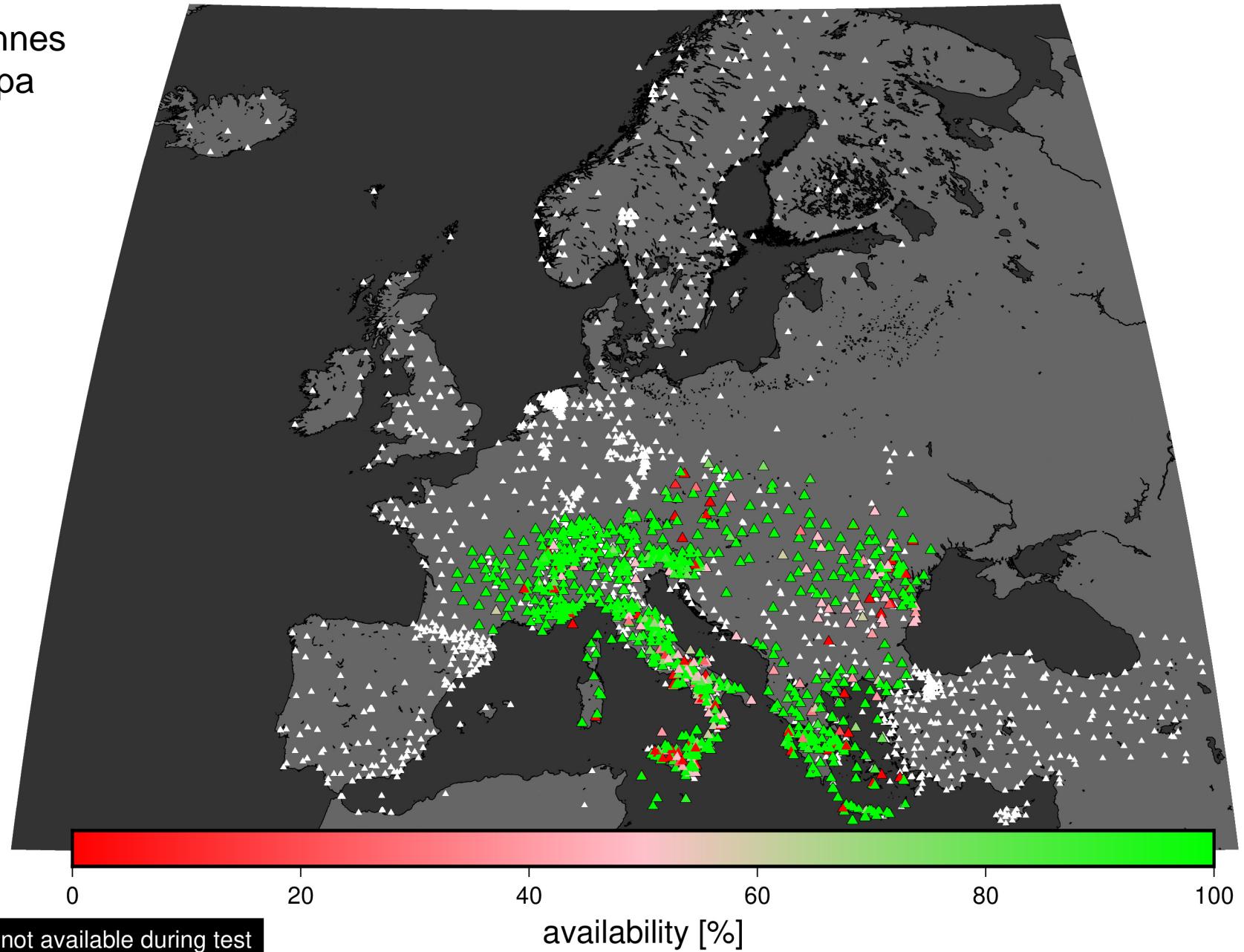
_ADARRAY

permanent networks
included in the moment

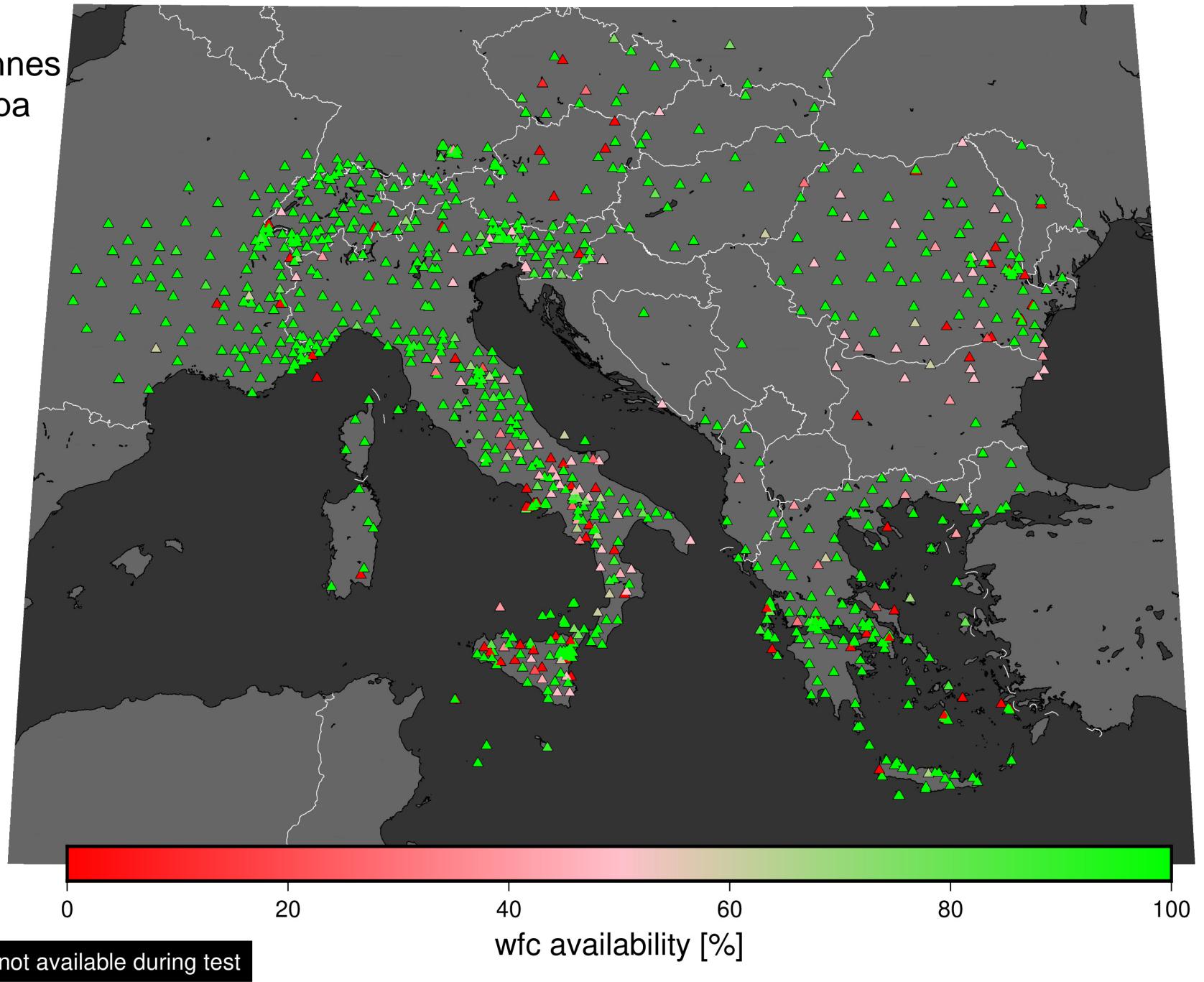
temporary to be added soon

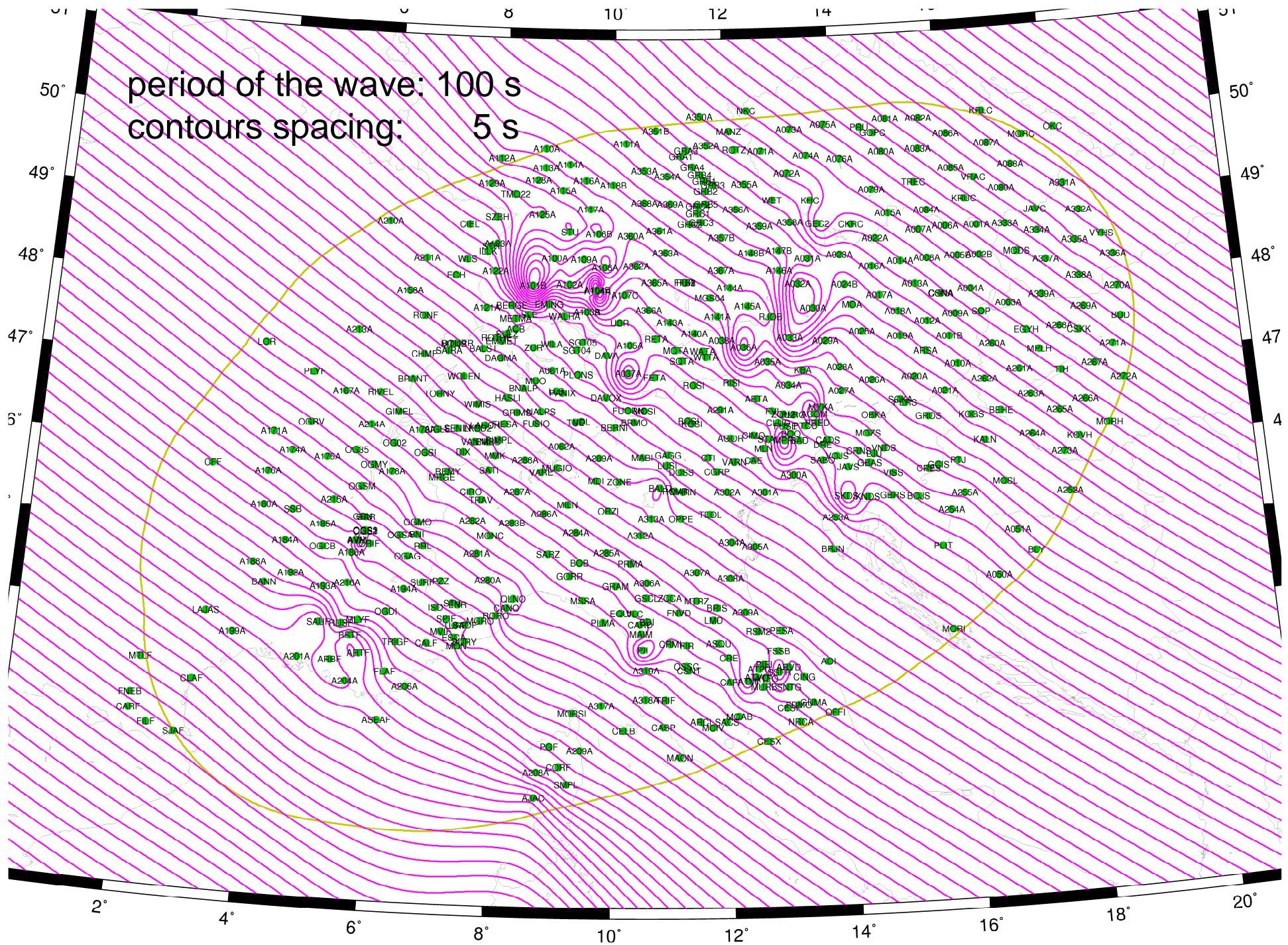
data availability maps by Johannes Stampa

by
Johannes
Stampa

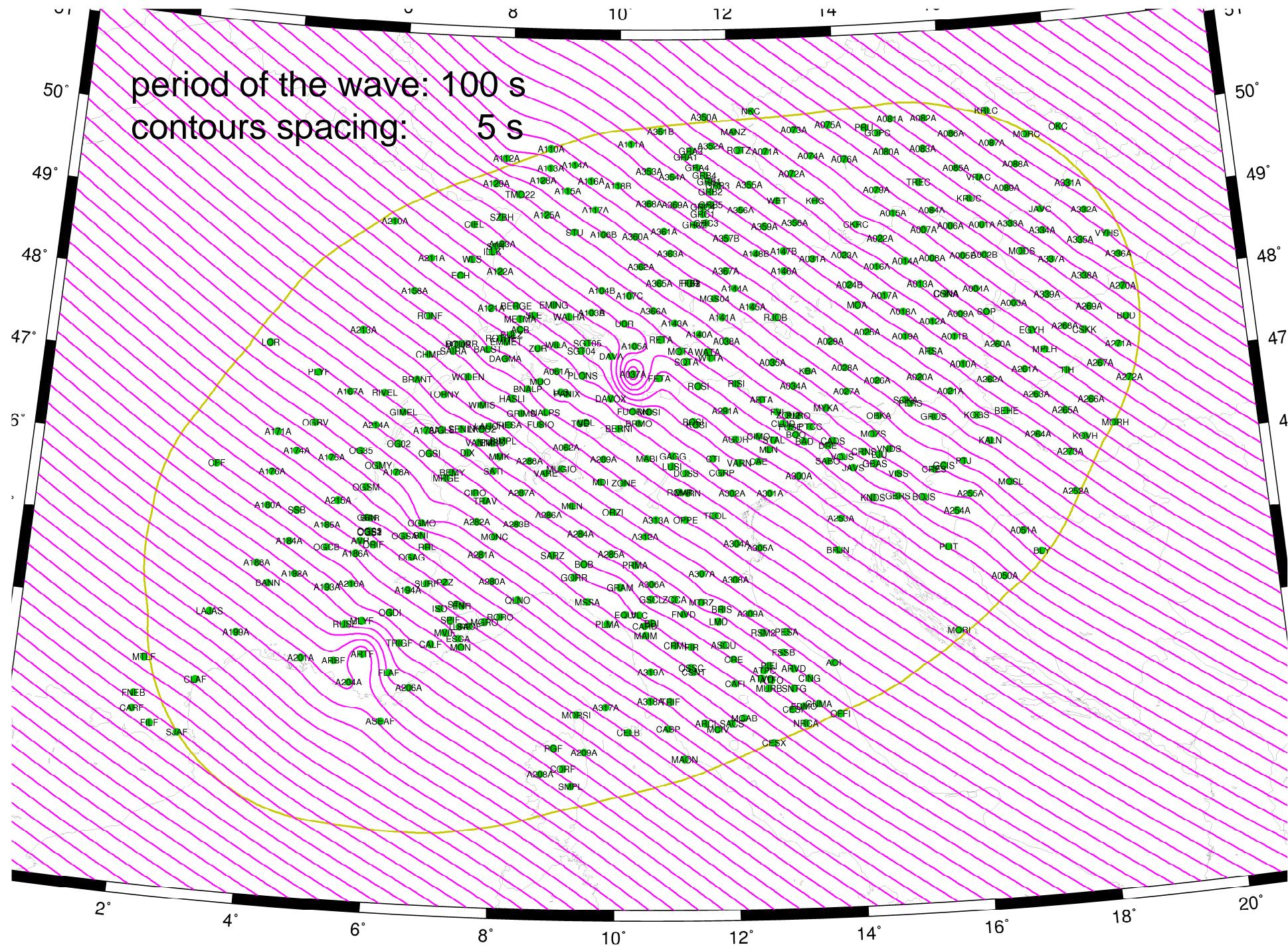


by
Johannes
Stampa

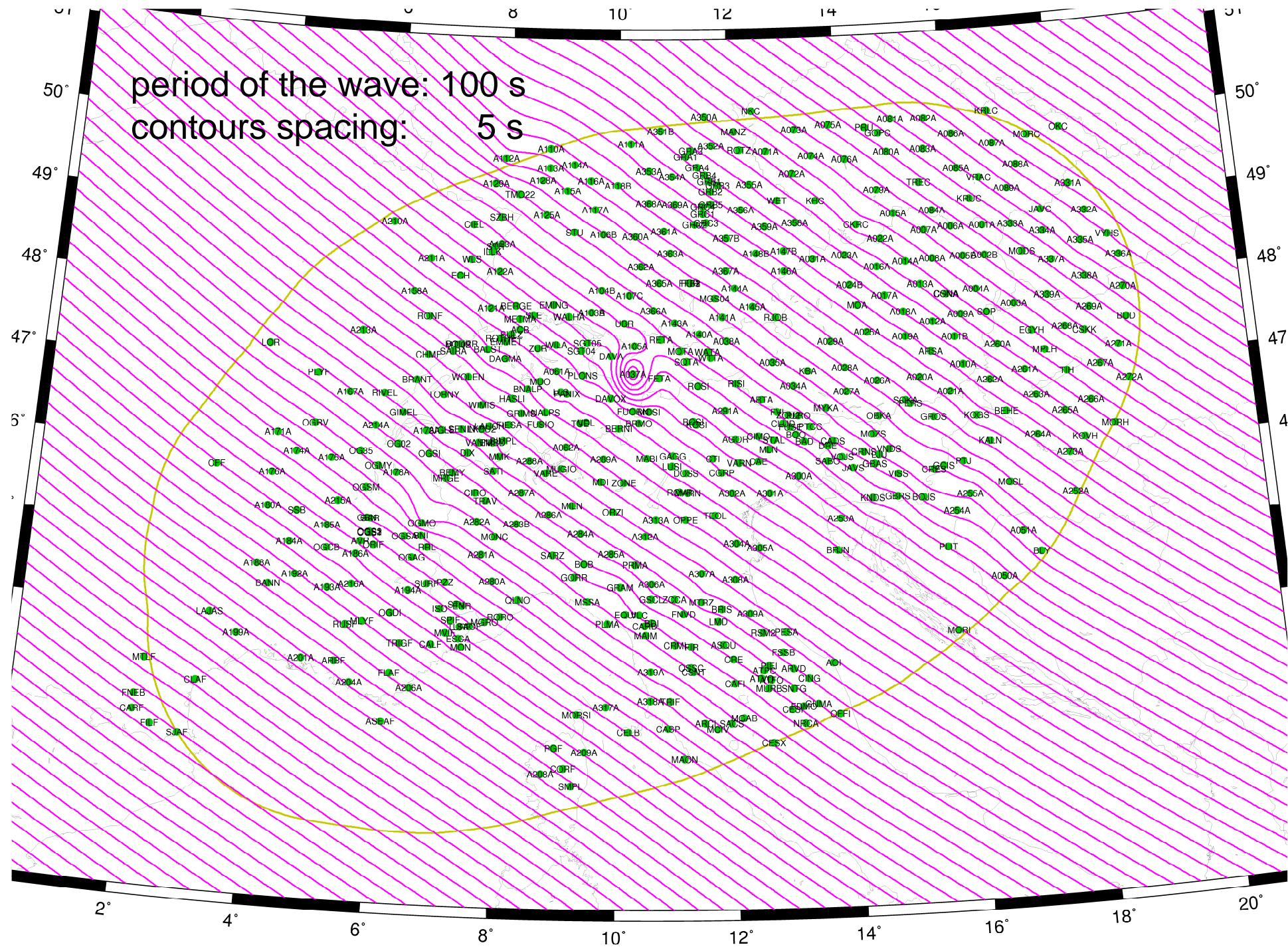




period of the wave: 100 s
contours spacing: 5 s

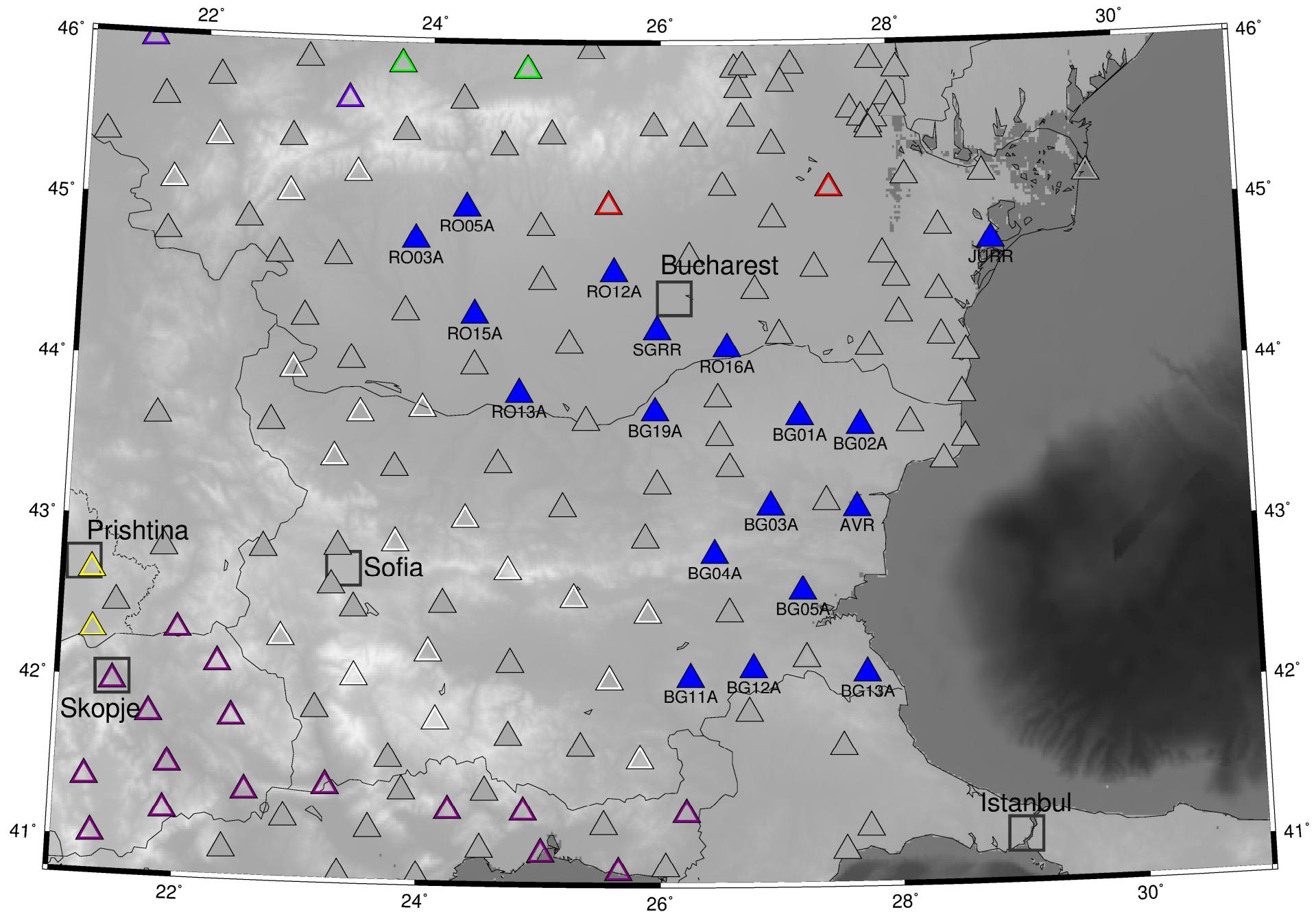


period of the wave: 100 s
contours spacing: 5 s

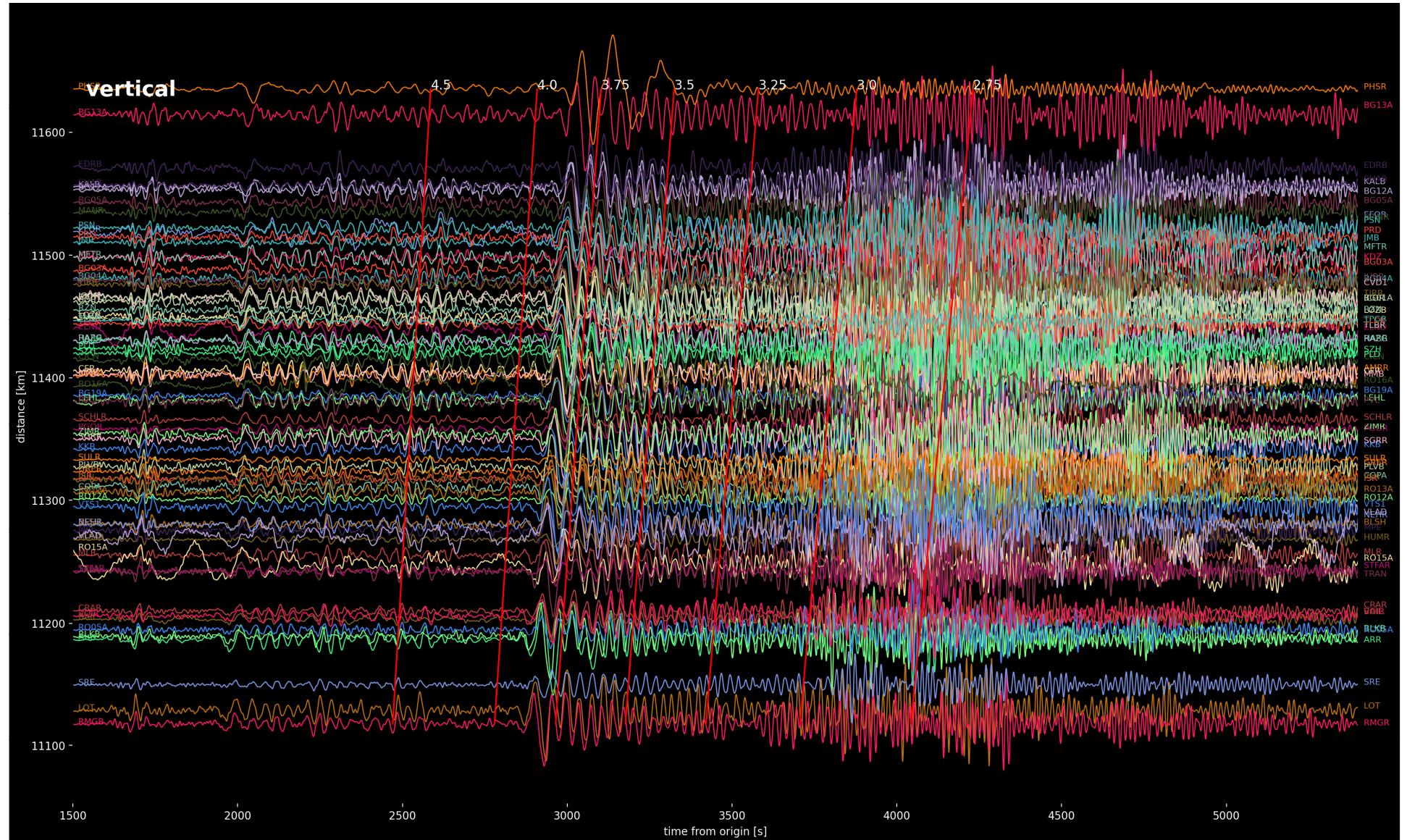


the same applied to a part of AdriaArray network

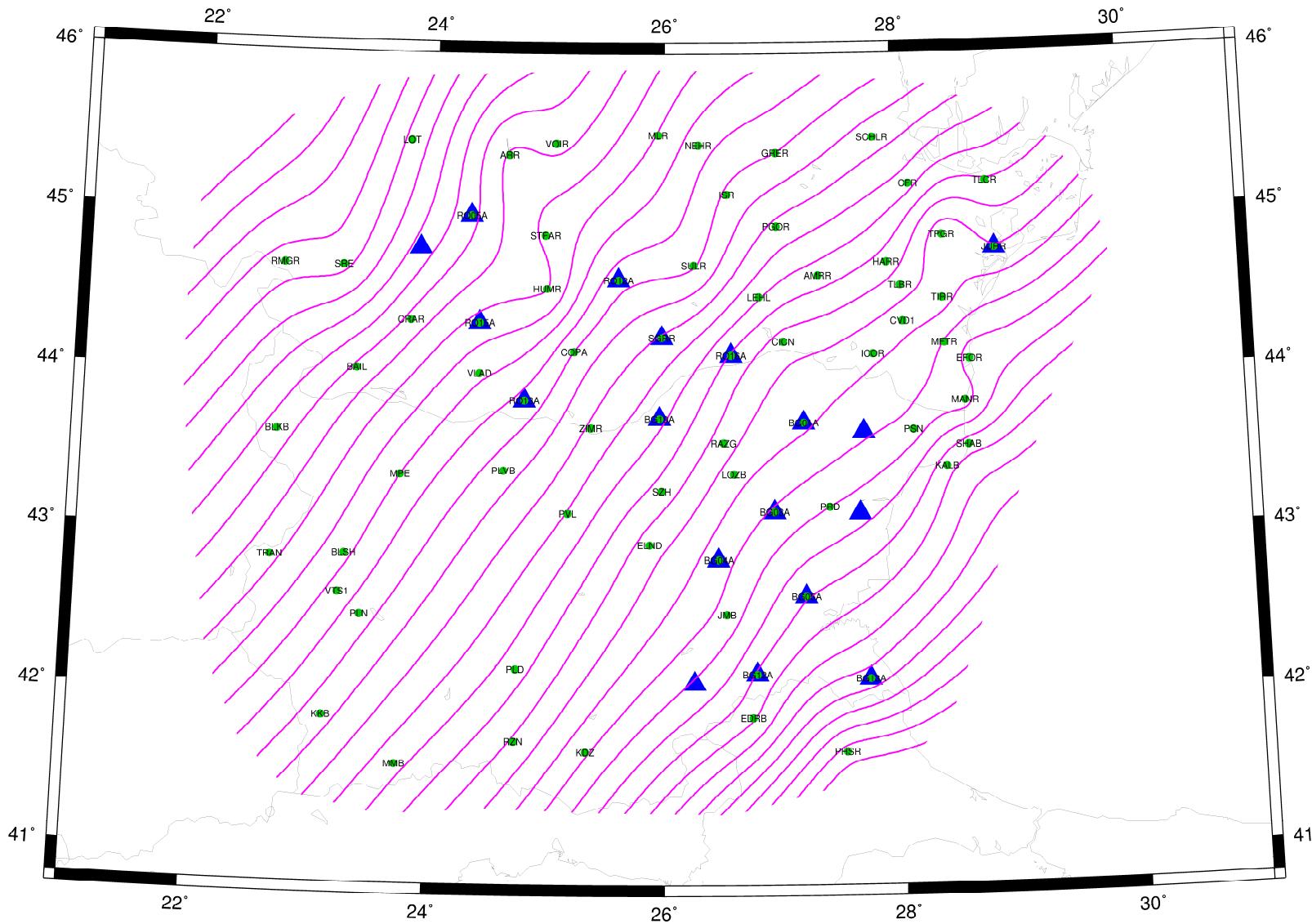
AdriaArray – MOBNET stations by IG CAS Prague in Romania and Bulgaria



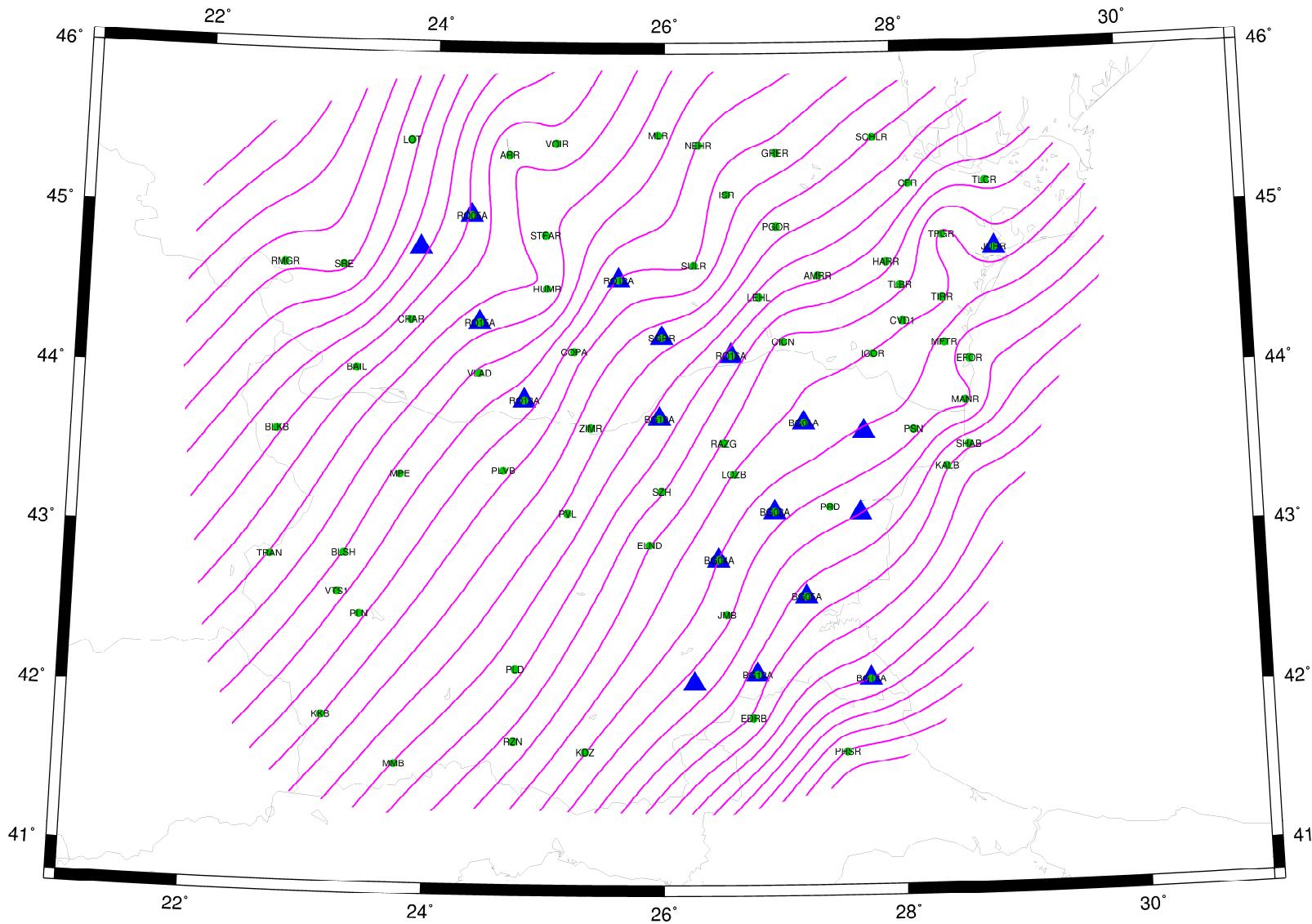
Mexico, 2022-09-19, M=7.6, 10 – 200 s, see Luděk's poster yesterday



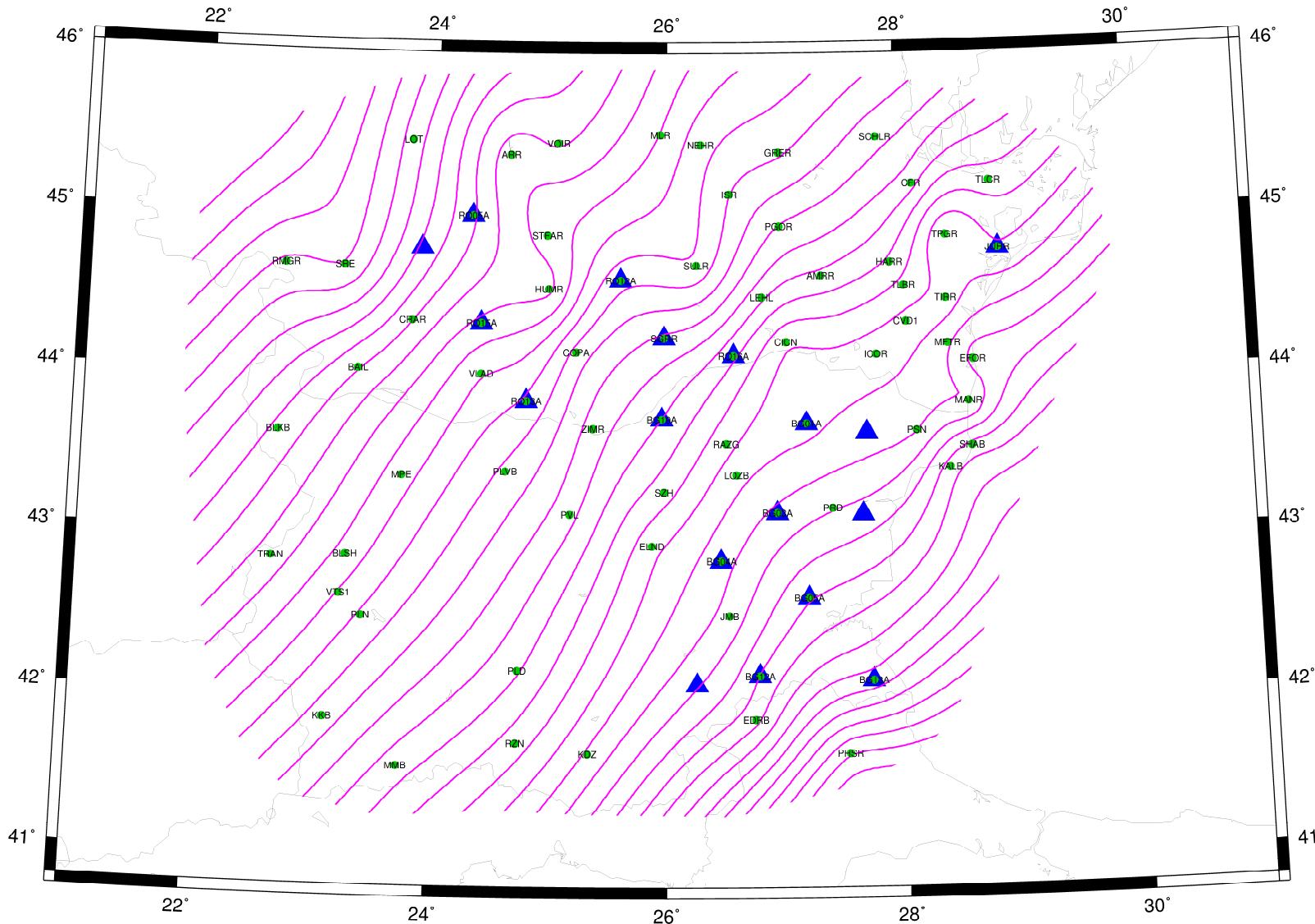
53 s



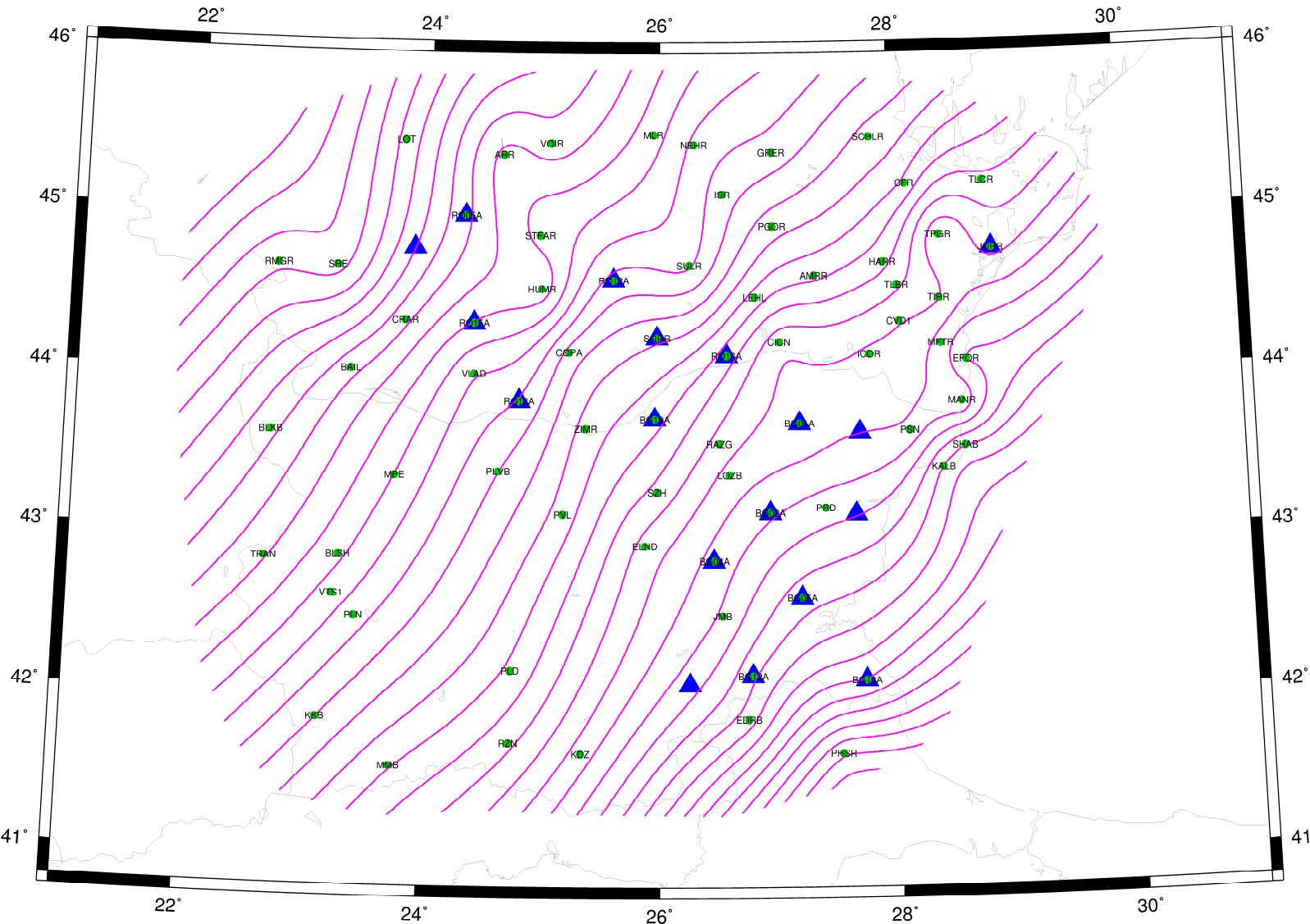
57 s



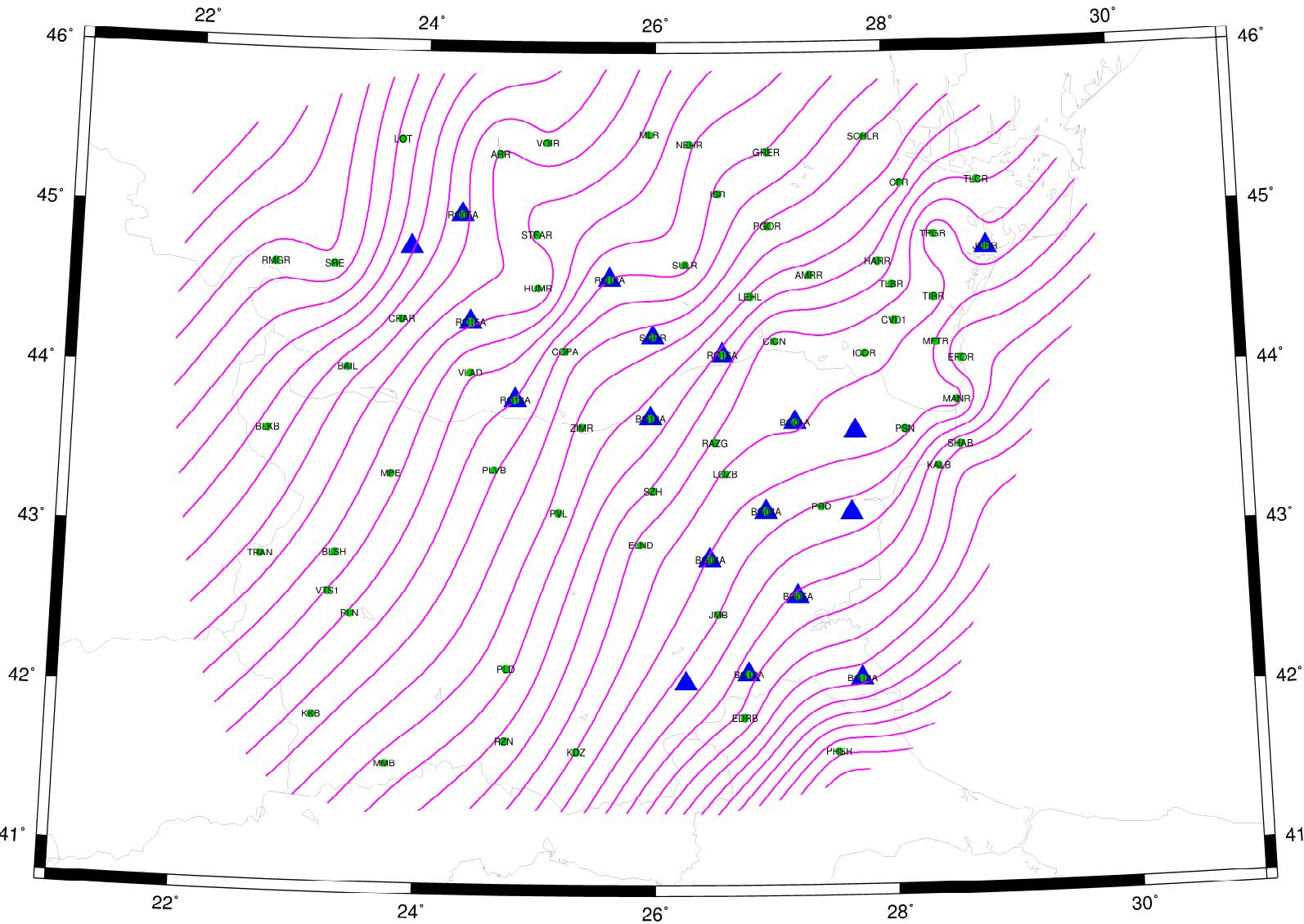
61 s



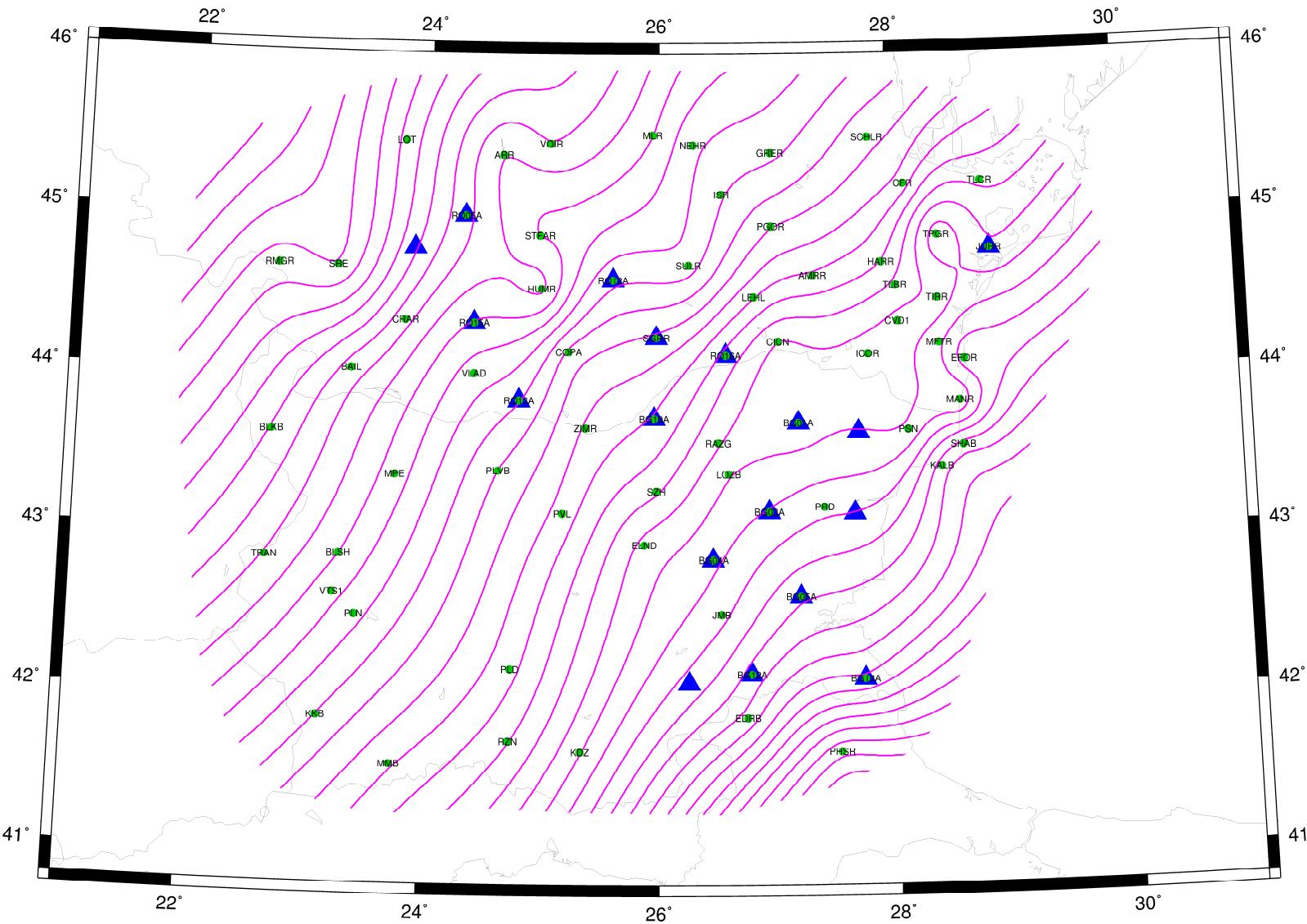
66 s



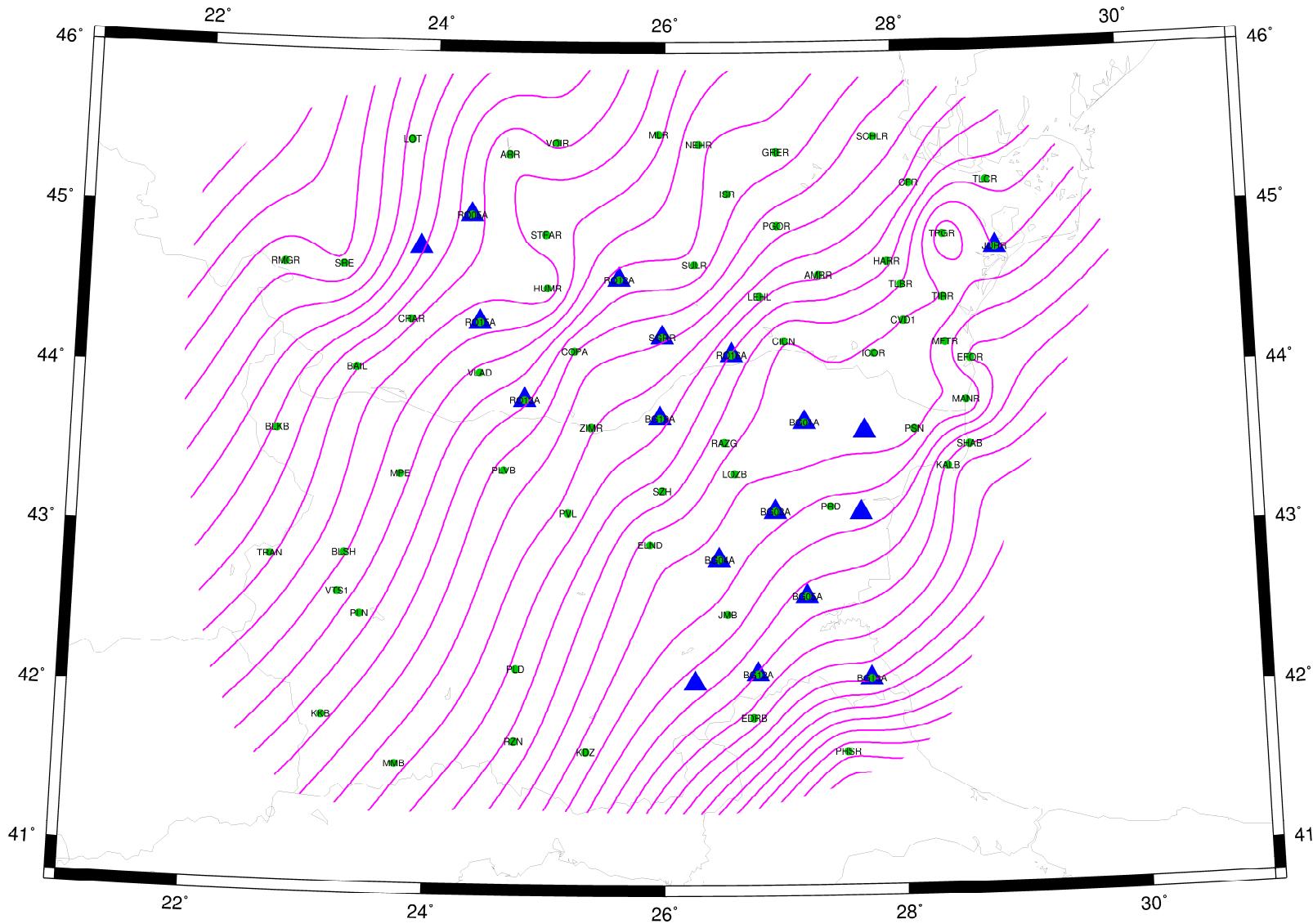
71 s



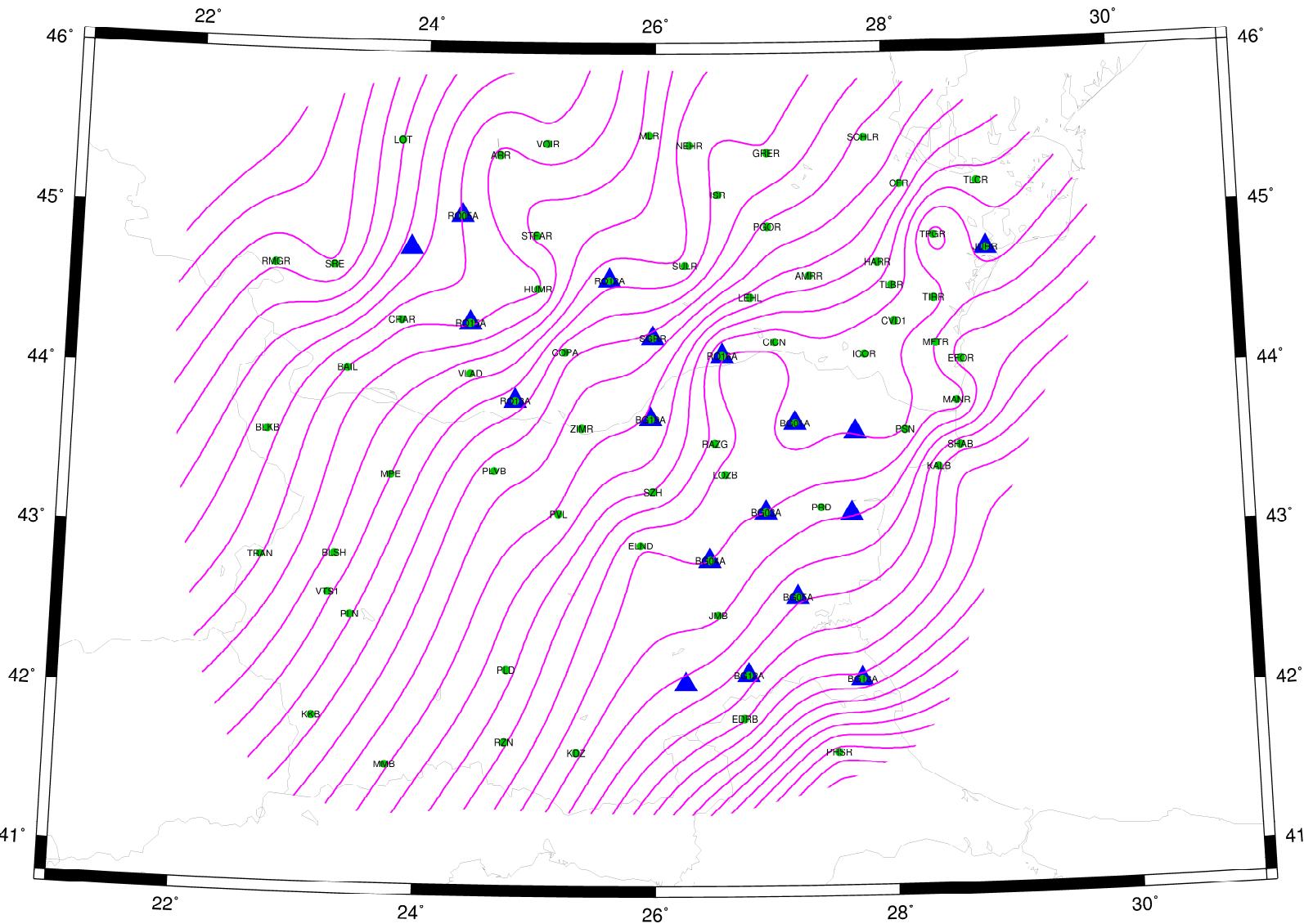
78 s



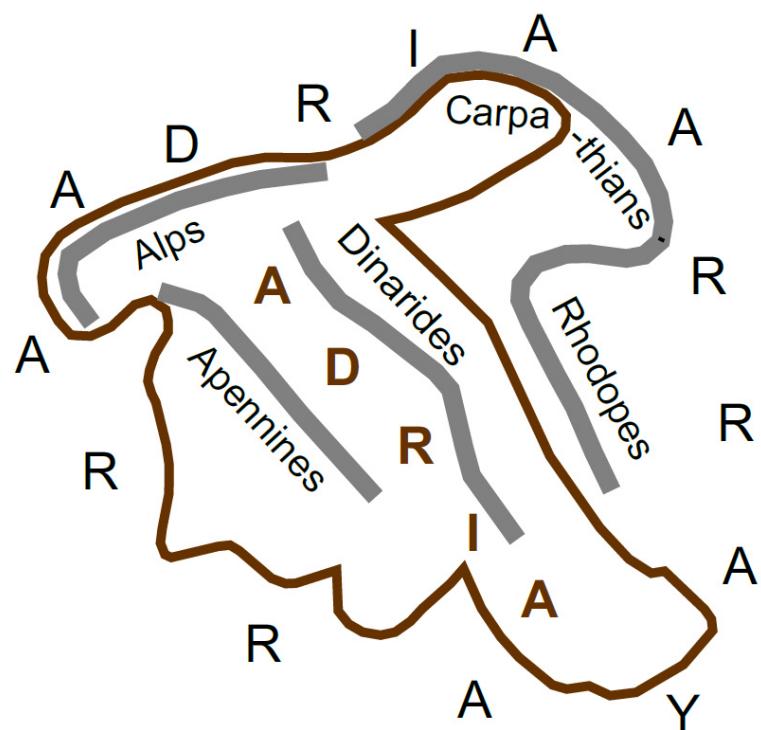
86 s



96 s



logo !



AdA logo by Jarka



AdA logo by Thomas

questions & discussion