



Latvian Geospatial
Information Agency

Latvian Geospatial information agency report

EUREF 2023 symposium session 4- Gothenburg, Sweden end of May 2023

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Ivars Liepiņš*

LATREF stations



Irbene



Alūksne



Rīga

Vainode



Daugavpils

Legend

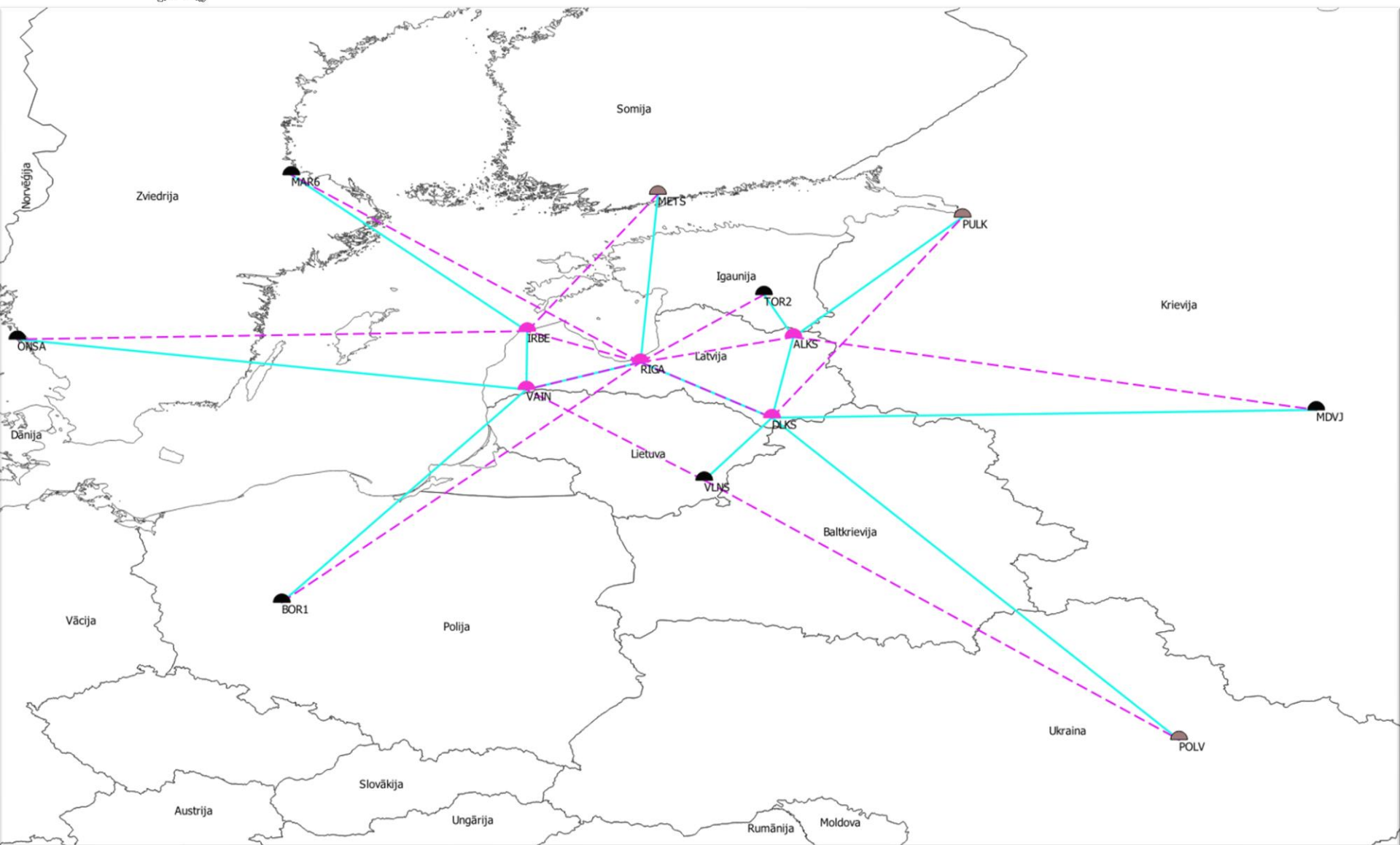
 LATREF station

 Calibrated antenna





LKS-20 modernisation LATREFV8 defined baselines





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LATREF base station coordinates in IGB14 realization with EPN calculator transformed to ETRF2014 realization 2020.04.12. epochā

ETRF2014 (2020.04.12. epoch) = LKS–2020 (2020.04.12. epoch)

NUM	STATION NAME	X (M)	Y (M)	Z (M)
1	ALKS 10731M002	3064941,7582	1564041,3592	5352595,2369
2	DLKS 10704M003	3206757,3272	1607049,4565	5256432,9289
3	IRBE 10726M001	3183614,8947	1276707,4712	5359315,0757
4	VAIN 10736M001	3282526,9700	1315357,6565	5290482,4935
5	RIGA 12302M002	3183899,5126	1421478,2670	5322810,6819

RIGA station coordinate difference is between LATREFV8 and official EPN coordinate in ETRF2014 realization for period 354/2014 – 261/2021

	X (M)	Y (M)	Z (M)
LATREFV8	3183899,5126	1421478,2670	5322810,6819
EPN	3183899,5134	1421478,2671	5322810,6832
	X (MM)	Y (MM)	Z (MM)
Differencies	-0,8	-0,1	-1,3



EPSG codes from 1st of March 2023

GeoRepository

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EPSG

GEODETIC PARAMETER DATASET

Managed by IOGP's Geomatics Committee

EPSG Dataset : v10.088

Map Search

GEOMATIC SOLUTIONS

Geodetic Parameters

Search Database

Text Search

GO

LKS-2020

Clear all

Search Results (5 Objects Found)

Export

Search results only display valid entries. Please login or register to include deprecated and invalid objects.

Report Selected Results

CRSs (4)Transformations (0)Point Motion Operations (0)Concatenated Operations (0)Conversions (0)Datums (1)More...

	NAME	CODE	TYPE	EXTENT	DATA SOURCE	REMARKS	REVISION DATE
☐	LKS-2020	10303	geocentric	Latvia	EPSG	Replaces LKS-92 (CRS code 4948...	2023. gada 1. marts
☐	LKS-2020	10304	geographic 3D	Latvia	EPSG	Replaces LKS-92 (CRS code 4949...	2023. gada 1. marts
☐	LKS-2020	10305	geographic 2D	Latvia	EPSG	Replaces LKS-92 (CRS code 4661...	2023. gada 1. marts
☐	LKS-2020 / Latvia TM	10306	projected	Latvia	EPSG	Replaces LKS-92 / Latvia TM (C...	2023. gada 1. marts

First

< Previous

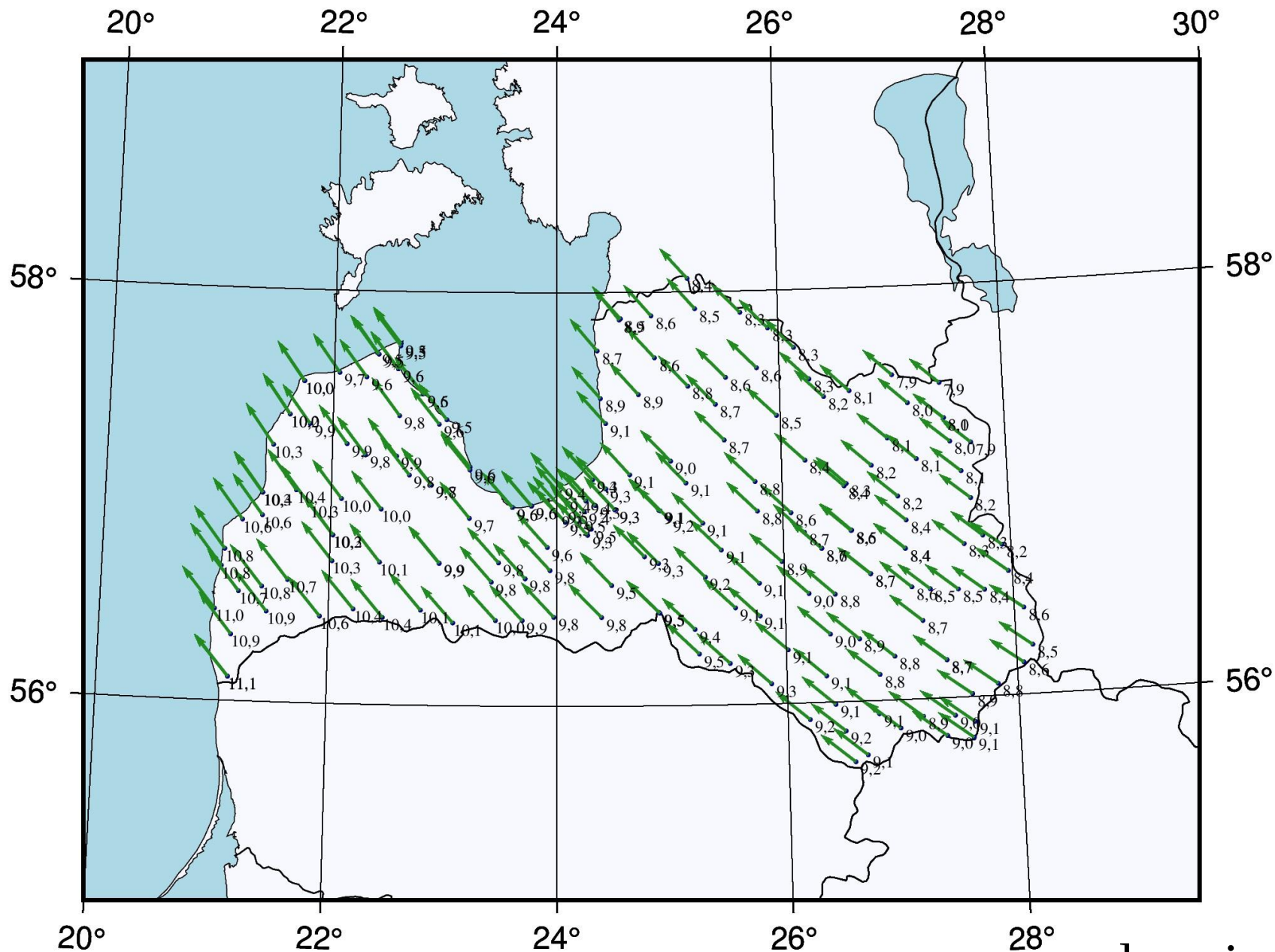
1

Next >

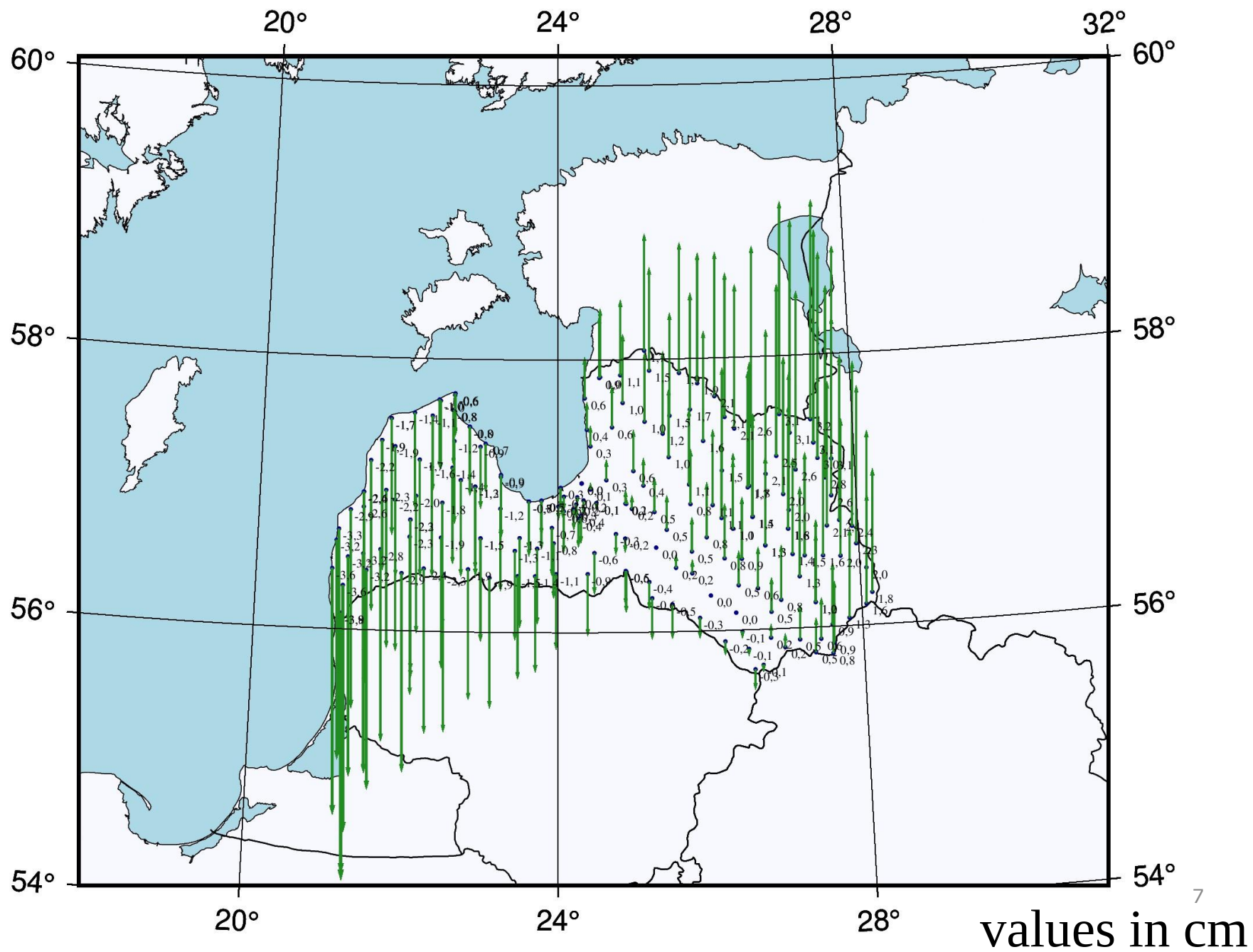
Last

Items per page: 50

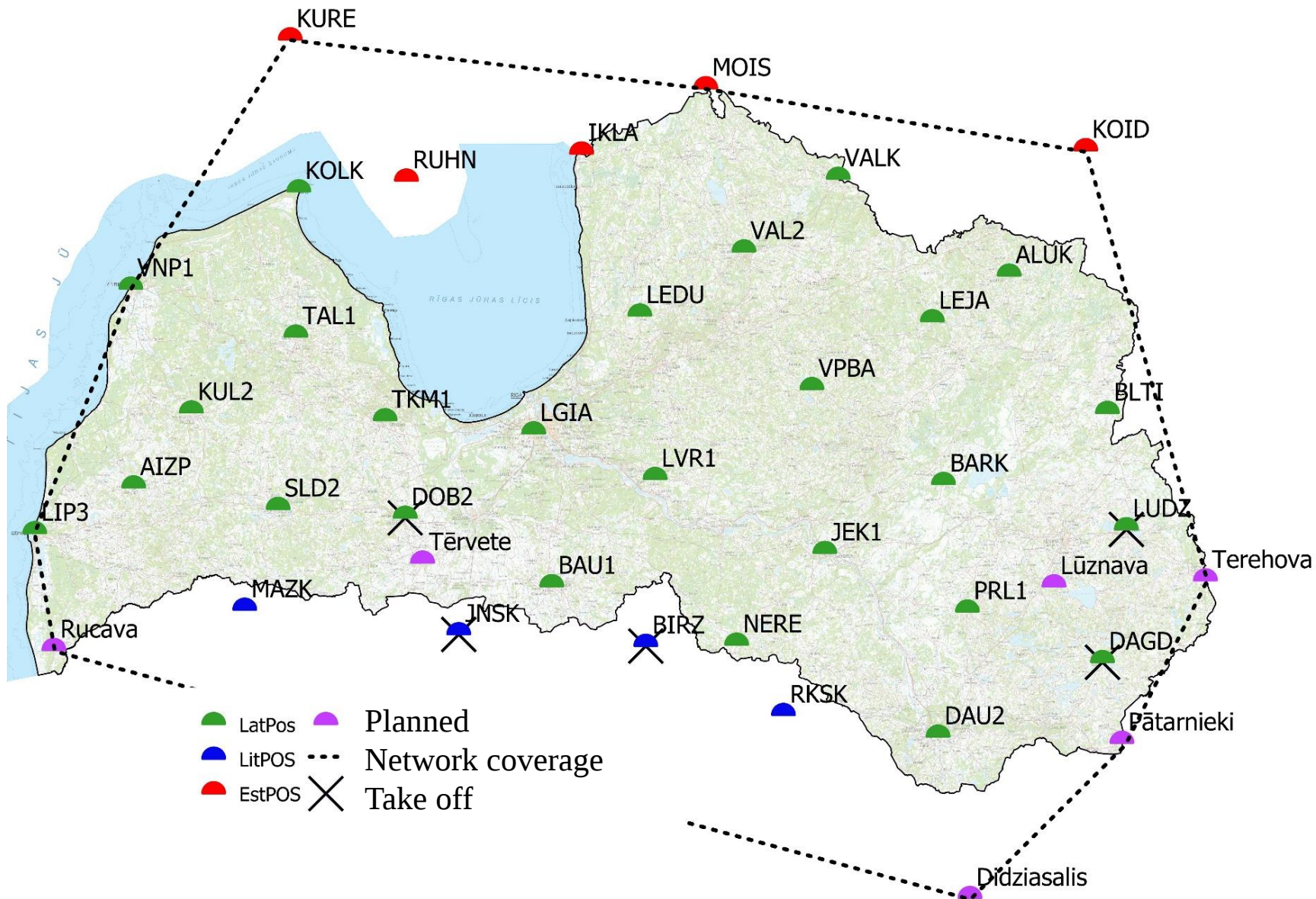
Horizontal difference: LKS-92(1992.75) - LKS-20(2020.28)



Height (h) difference: LKS-92(1992.75) - LKS-20(2020.28)



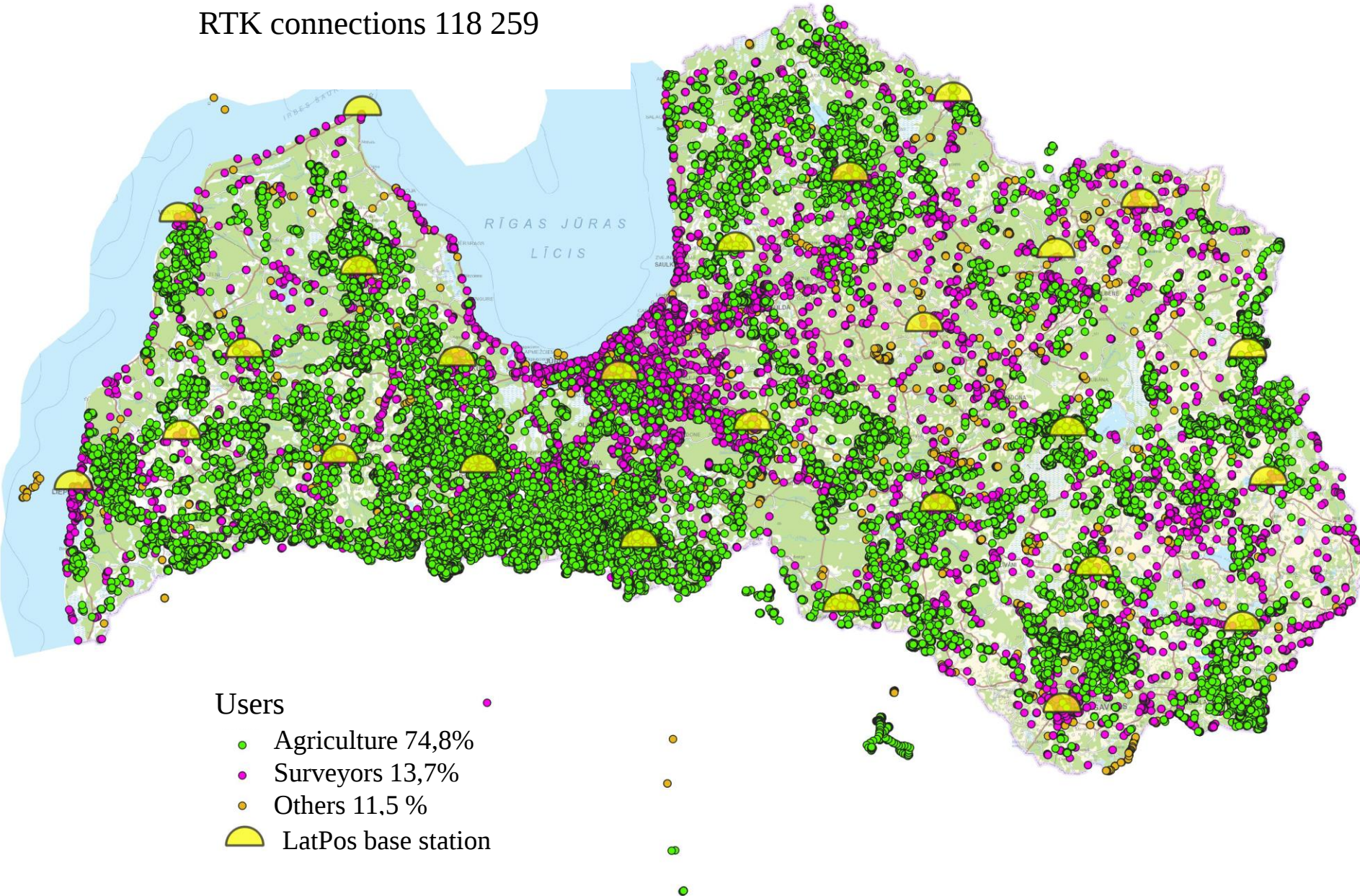
LatPos base stations 2023 and future plans



LatPos RTK users statistics (2)

(data about April of 2022)

RTK connections 118 259





New State geodetic network database

Valsts ģeodēziskā tīkla datubāze

Link: <http://geodezija.lgia.gov.lv>

Karšu pārlūks

Darbības ar punktiem

Klasifikatori un statistika

Identificēšanas rīks

Punkts Poligons Taisnstūris

☐ Pietuvināt karti pie rezultātiem

Identifikācijas/meklēšanas rezultāti

Identificēšana kartē (21)

0105 - N2

0483 - N1

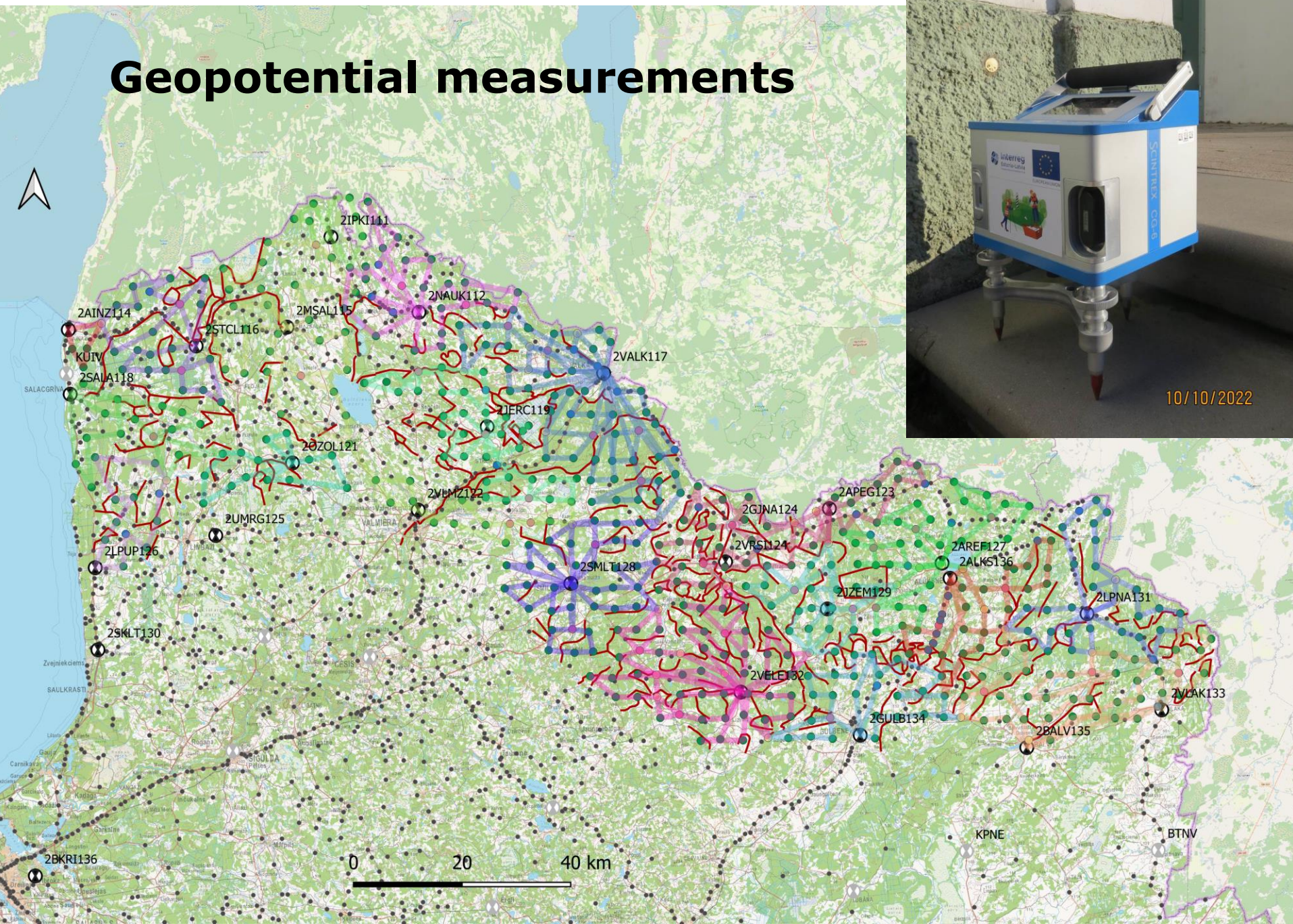
Pamata dati

Nosaukums	
Citi nosaukumi	
Gravimetriskais nos...	
Nivelēšanas nosauk...	0483
Klase	N1
Punkta veids	sm
Novads/Rep. pils.	Jēkabpils novads
Pagasts/Pilsēta	Jēkabpils
Vieta	
Punkta atrašanās vi...	Zilānu ielā 57, Krus...
Ievades datums	01.06.2009
Labošanas datums	13.10.2021
Datus laboja	Brigita Helfriča
Darba numurs	207;264;277;310
Informācija par īpa...	
Nivelēšanas līnija	
Punkta identifikators	12026
Punkta noformējums	P
Punkta stāvoklis	Normāls

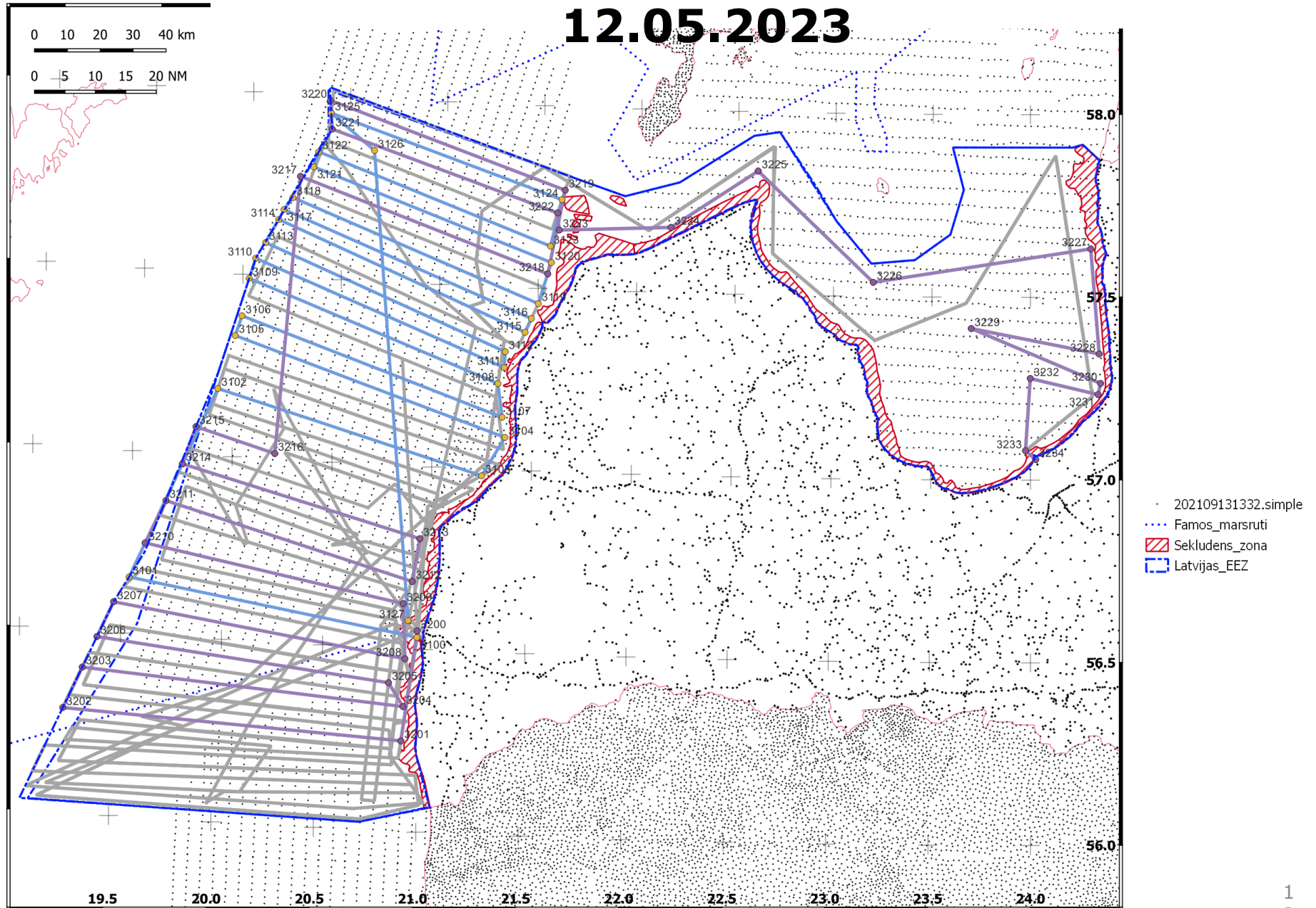
Apskatīt foto un abrisu

Koordinātas un augstumi

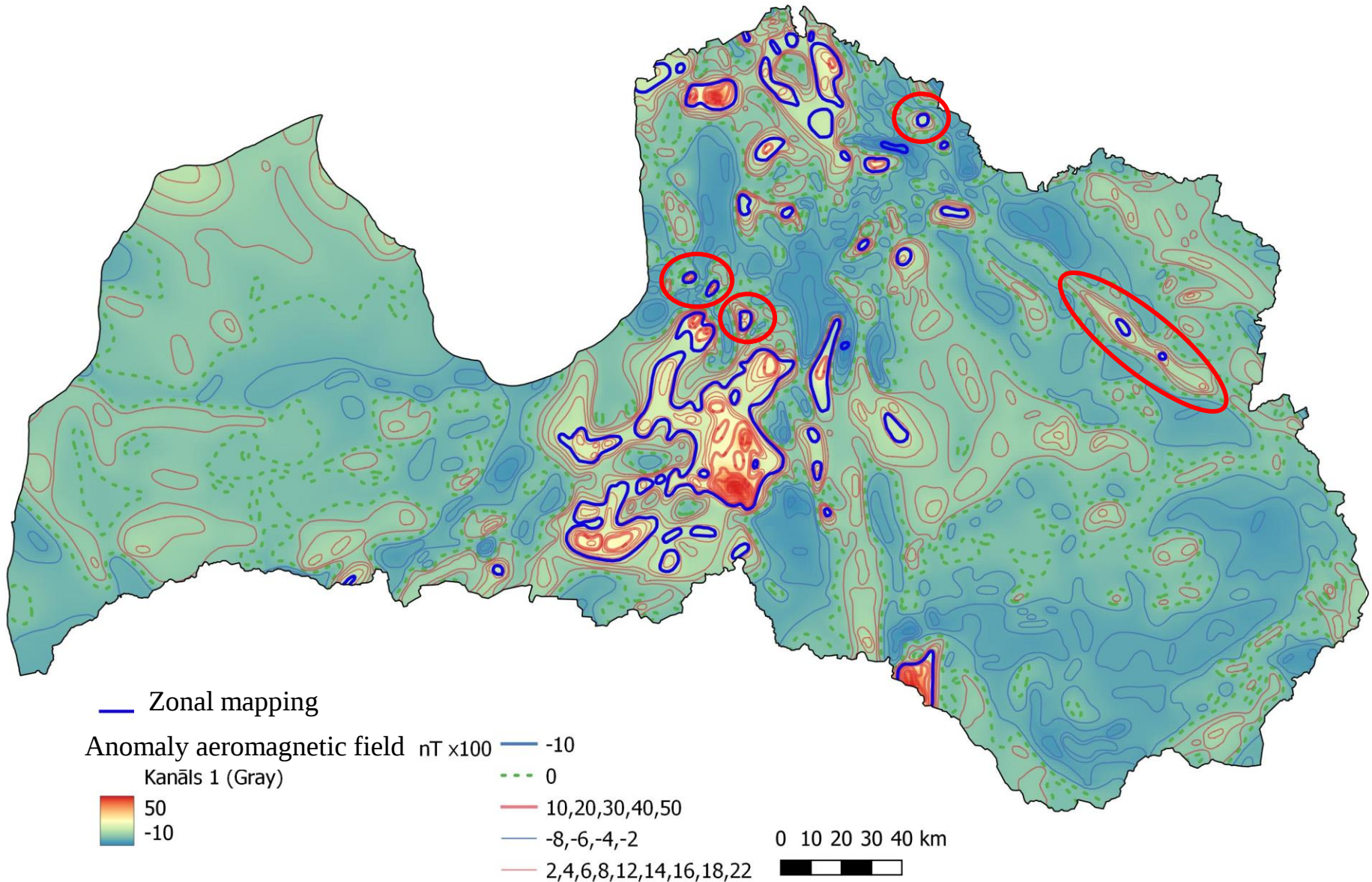
Ģeodēziskā zīme



Sea gravimetric measurements on 12.05.2023



Total magnetic field intensity and profile mapping year 2022





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Thank you for your attention!

