



EUVN_DA: EUREF ACTION for EUVN DENSIFICATION: STATUS REPORT

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A REMINDER: WHAT IS EUVN_DA?

JOINT EFFORT OF THE EUROPEAN NMA'S TO ESTABLISH A HOMOGENEOUS, DENSIFIED CONTINENTAL GPS/LEVELLING NETWORK RELYING ON THE EXISTING EUVN SOLUTION.

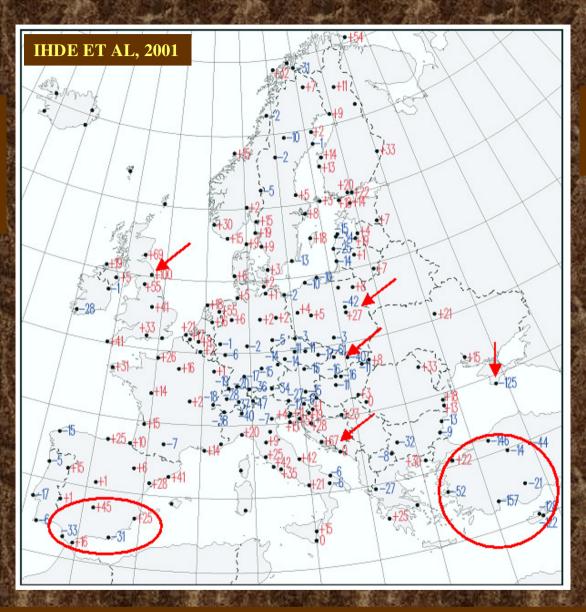


REALIZATION OF THE DM-ACCURACY CONTINENTAL HEIGHT REFERENCE SURFACE CONSISTENT WITH ETRS89 AND EVRS.

(RESOLUTION #4 DUBROVNIK).

WHY WE NEED DENSIFICATION?

LONG WAVE
-GEOID
-LEVELING

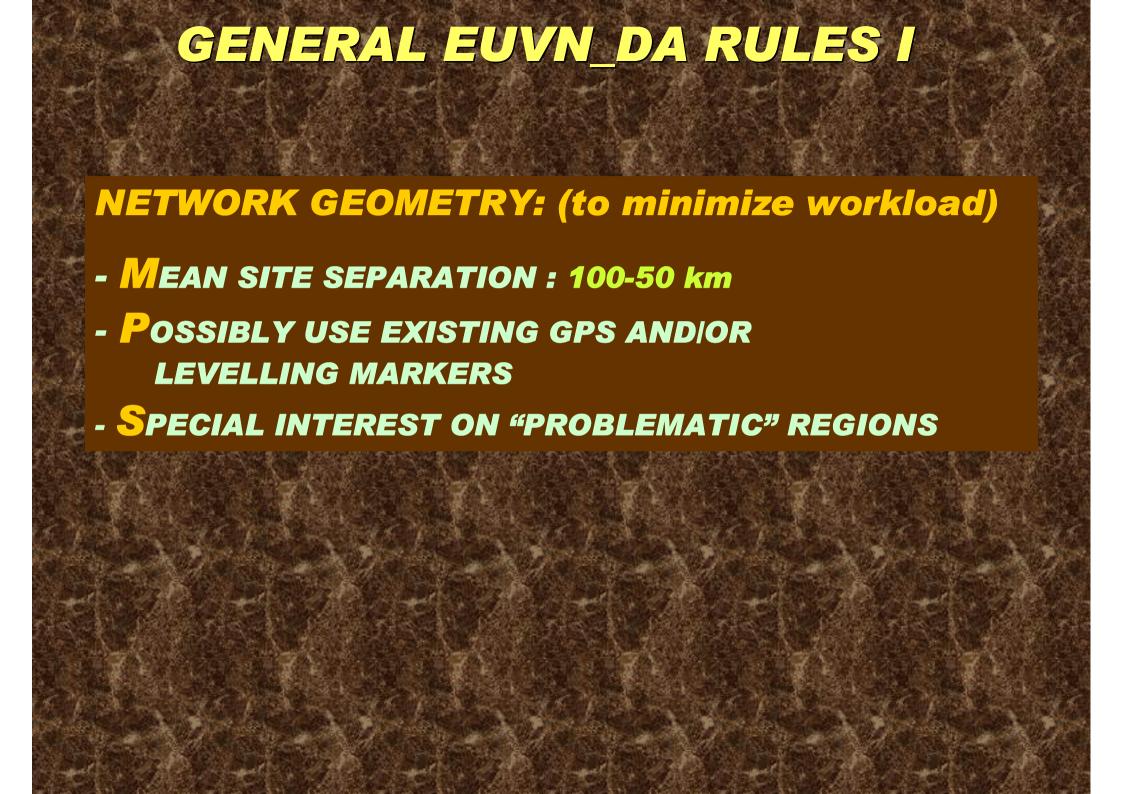


OUTLIERS
- EXCENTRICITY

THE SPARSE EUVN AND THE EGG97 IS NOT ELIGIBLE FOR THE CONTINENTAL SUB-DM HEIGHT REFERENCE SURFACE!

SENSITIVITY OF THE EGG97 - EUVN COMPARISON





GENERAL EUVN DA RULES II

DATA REQUIREMENTS

GPS MEASUREMENTS

- REFERENCE SYSTEM (ETRS89 or ITRFyy EPOCH)
- OBSERVATION SESSION <24 hours ALSO ACCEPTED!

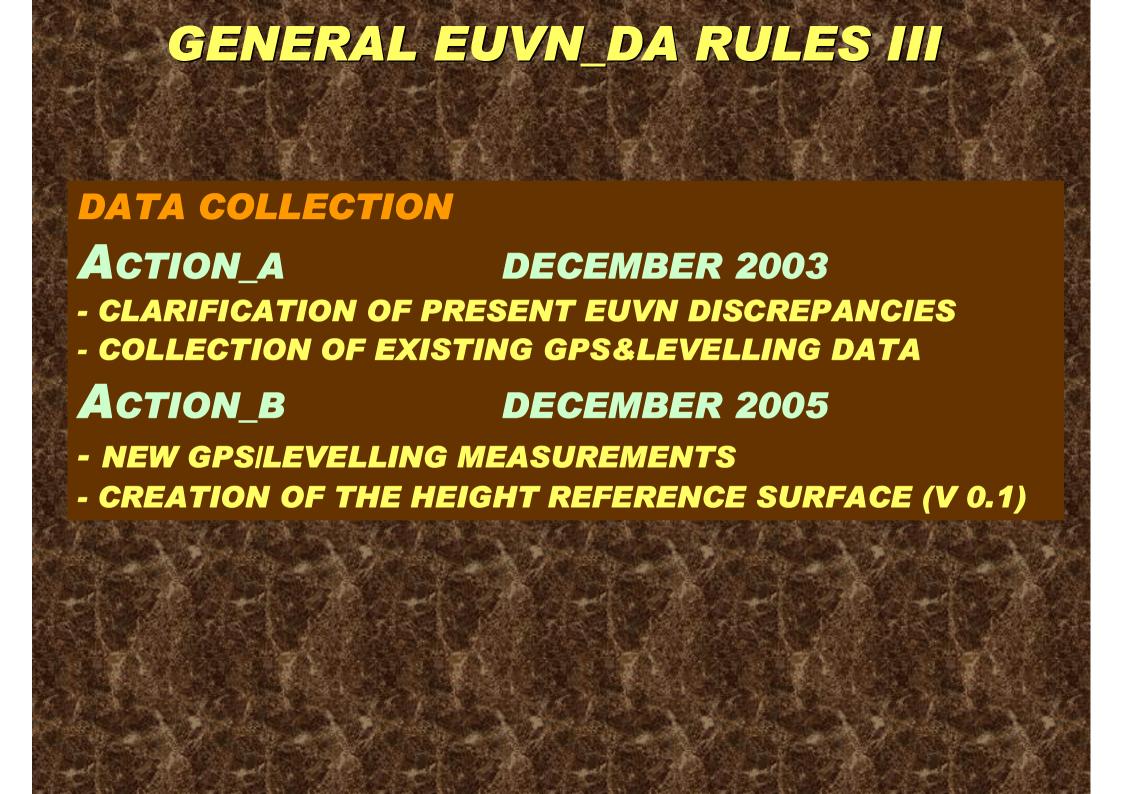
LEVELLING

THE EUVN_DA MARKERS SHOULD BE CONNECTED TO UELN (EXISTING MEASUREMENTS MAY BE USED)

DATA SUBMISSION

TO EUVNIUELN DATA CENTRE

- CONSISTENCY CHECK | EVALUATION
- COMPILATION OF NATIONAL SOLUTIONS



SUBMISSION FORMS

EUREF Technical Working Group EUVN_DA Working Group	EUVN Densification Action GPS Data Form		Page 1 of 1	EUREF Technical Working Group EUVN_DA Working Group	EUVN Densification	ty Form	Page 1 of 2
	Version 1.0	Date:			Version 1.0	~	
	4-char EUVN_DA ID: City/area:		1000	This Form is valid for height Levelling Nodal Point. The i Form.			
	ess):			Station name:	4-char EUVN_DA ID:	Nationa	al site No.:
				1			y:
Reported by:	Telephone:	e-mail:		Responsible agency (full addr	ess):		
EUVN_DA GPS M	Official No. of oth Networks (e.g. EU	er REF):		Reported by:		Telephone:	e-mail:
			1000	(A) EUVN_DA GPS Marke	r	Official No. of other Networks (e.g. EURE	EF):
	runa Carin dations		0.000	Ellipsoidal coordinates in ETF	RS89:		
	type, foundation:			Latitude :°		Longitude :	·
Visibility of satellites above 1	5 degrees:			Gravity value in ms ⁻²		Gravity system:	
				Approximate accuracy of grav	vity in 10 ⁻⁵ ms ⁻² (mGal):		
Possible sources of multipath,	electromagnetic noise:			(B) Nodal Point Marker		Official UELN No. :	
GPS Data Section				Marker Inscription:			
Date of the GPS campaign:	No. of s	essions (24 hours):		Marker Identifier :			
GPS receiver:		on cutoff: degree		Marker type, monumentation,	foundation:		
GPS antenna:		g rate: seconds					
Processing software:							
3D coordinates and accuracies				Ellipsoidal coordinates in ETF	RS89:		
X:	Y:	Z:		Latitude :	·	Longitude :	·
	_			Gravity value in ms ⁻² :		Gravity system:	
Reference frame:	Epoch:			Approximate accuracy of grav	rity in 10 ⁻⁵ ms ⁻² (mGal):		

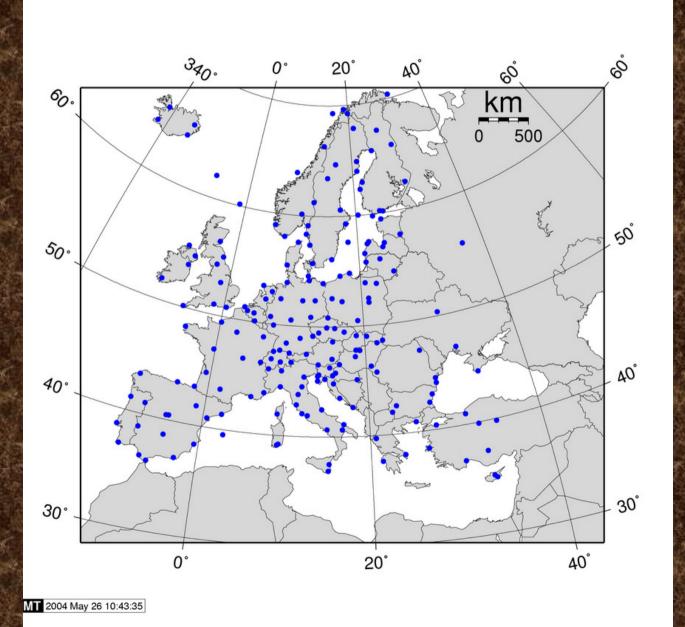
SUBMISSION FORMS UPDATE!

A SIMPLIFIED EXCEL-BASED TABLE,
INCLUDING ALL RELEVANT INFORMATION

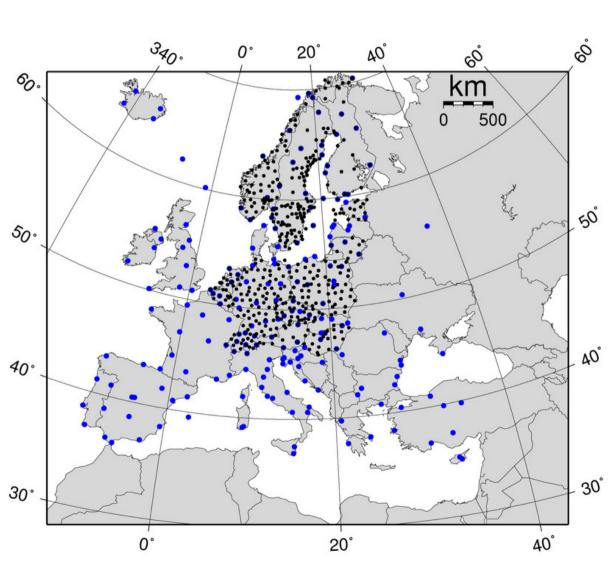
GPS data details: Campaign, processing

ID	G	PS CI	RD	U	UELN nodal point info						EUVN_DA site leveling info							
	LAT	LON	h	U ID		уу	y CRD		g	G P U	D I S T	g	d G P U	G P U	н	acc	N eu	N gr
1000																		

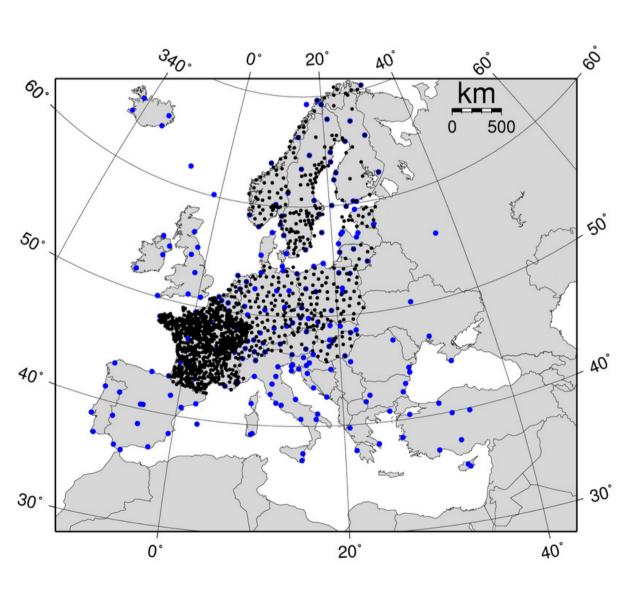
SITE DISTRIBUTION



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