



NERO GRAV

New Refined Observations of Climate Change from Spaceborne Gravity Missions

International Spring School
Neustadt an der Weinstraße, Germany, March 10-14, 2025

Practical 4: Regional analysis of gridded total water storage data

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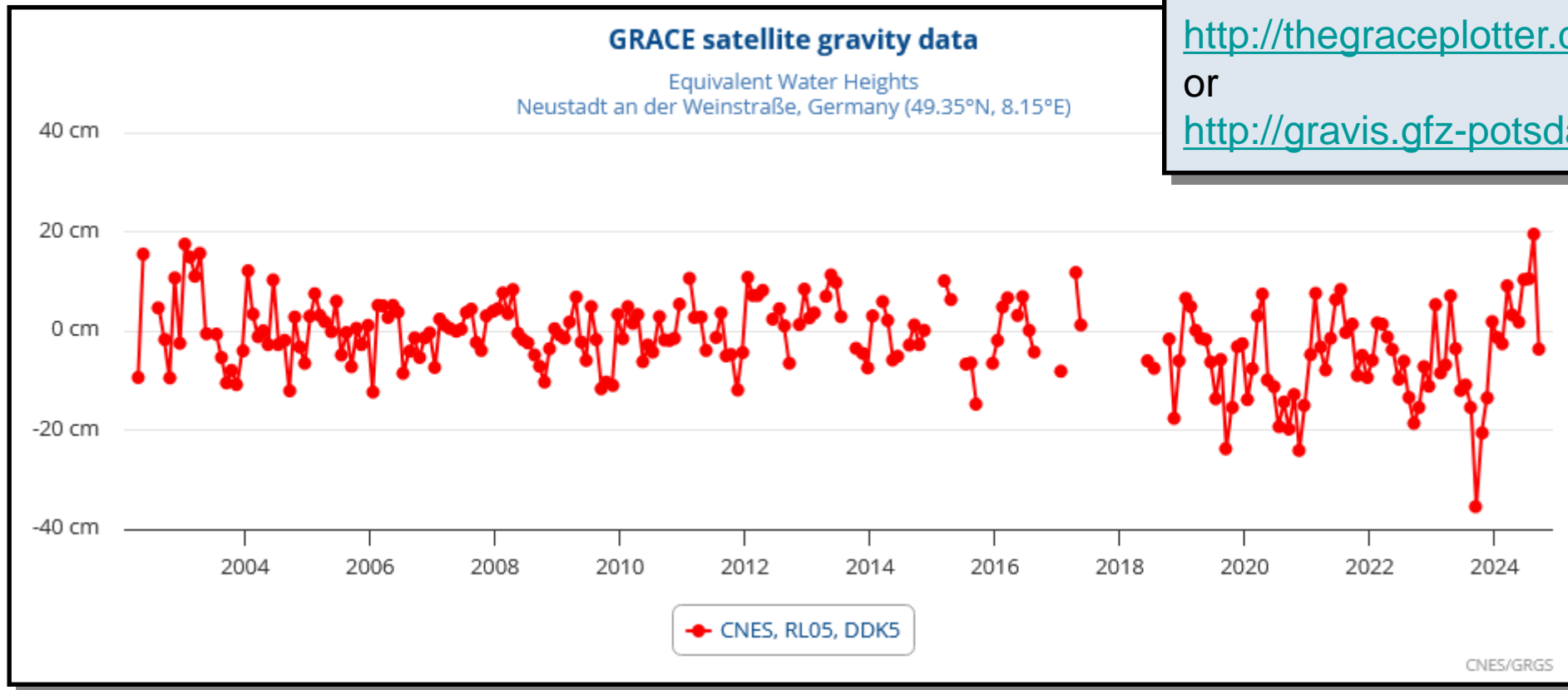


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Regional analysis of gridded total water storage data

Title	Gravity functional	Data set	Area	Latitude	Longitude	Address	Regression	Scale	Bias
Series 1	Water heights	CNES RL05 DDK5	Point	49.350186	8.148689	Neustadt an der	None	1	0



<http://theGraceplotter.com/>
or
<http://gravis.gfz-potsdam.de>

Regional analysis of gridded total water storage

Exercise 1: Investigation of TWSA in selected hydrological catchments

→ Amazon, Brahmaputra, Danube, Volta: TWSA time series with special features.

Exercise 2: Investigation of ice mass changes

→ Compute your own trend of ice mass loss in Greenland!

Exercise 3: Investigation of a mysterious signal

→ What is going on in West Malaysia?

Exercise 4: Dealing with the leakage effect

→ Annoying and still an issue: we are looking forward to your solution!

Exercise 5 (optional): Computation of drought severity indices

→ Can you detect exceptional, severe and extreme droughts over South Africa?



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Have a lot of fun and do not hesitate to ask questions!



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