

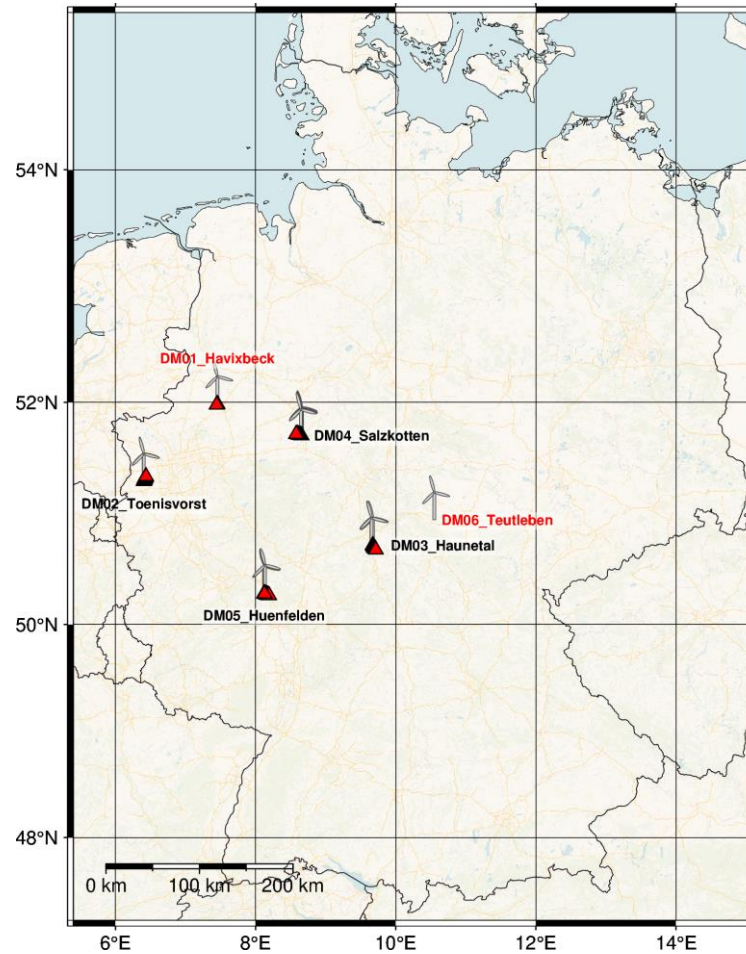
Current status - DB MISS KIT

Sarah Mader & Joachim Ritter

22. April 2024



Measurement Campaigns

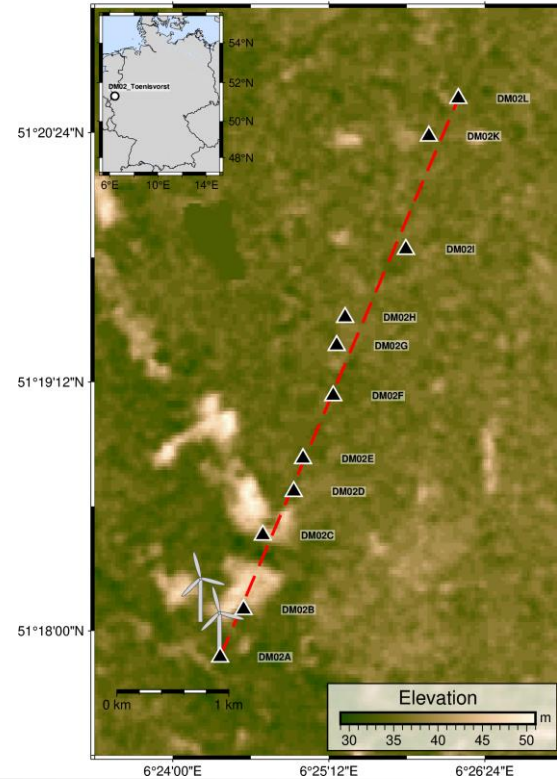
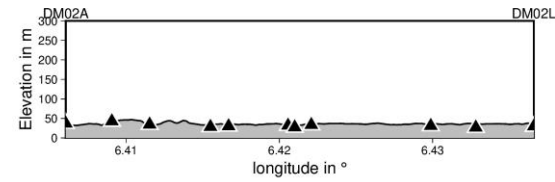
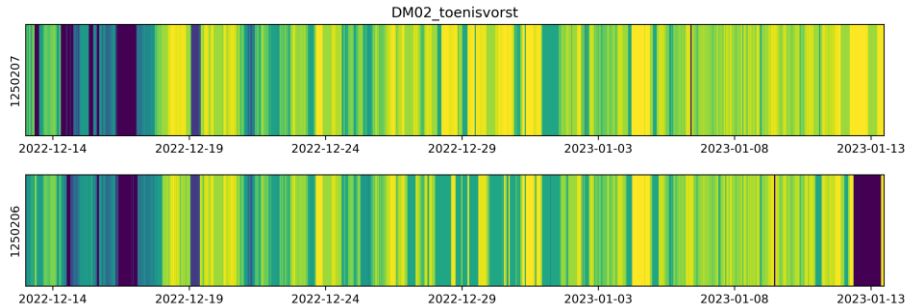


Measurement Campaigns

	time	Number of WTs	Power in MW	WT types	Geology
DM01_Havixbeck	November 2022 November 2024	3	4.5	1	Quaternary glacial deposits, silt, sand and gravel
DM02_Toenisvorst	December 2022 – January 2023	2	4.0	1	Quaternary sand and gravel
DM03_Haunetal	October 2023 – November 2023	4	4.2	1	sandstone with boulders, clay siltstone
DM04_Salzkotten	December 2023 – January 2024	11	2 – 4.2	4	Quaternary glacial deposits, silt, sand and gravel, meltwater deposits
DM05_Huenfelden	February 2024 – March 2024	3	4.5	1	clay slate, siltstone, sandstone, quartzite
DM06_Teutleben	October 2024	13/14	3.0 – 5.5	6/7	limestone, lime marl stone,

DM02_Toennisvorst

rotation rate 14. Dec. 22 – 13. Jan. 23

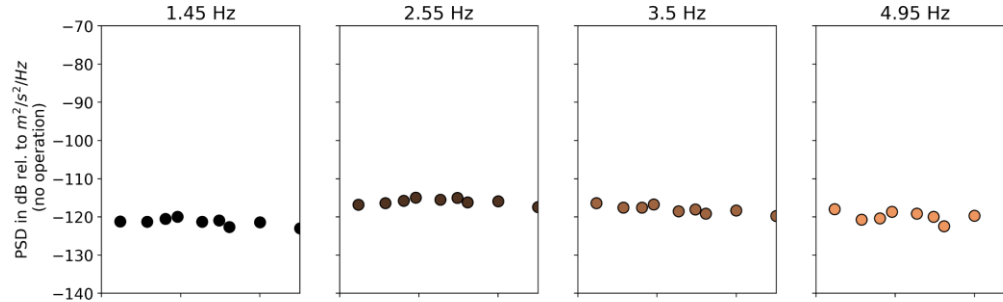


DM02_Toennisvorst

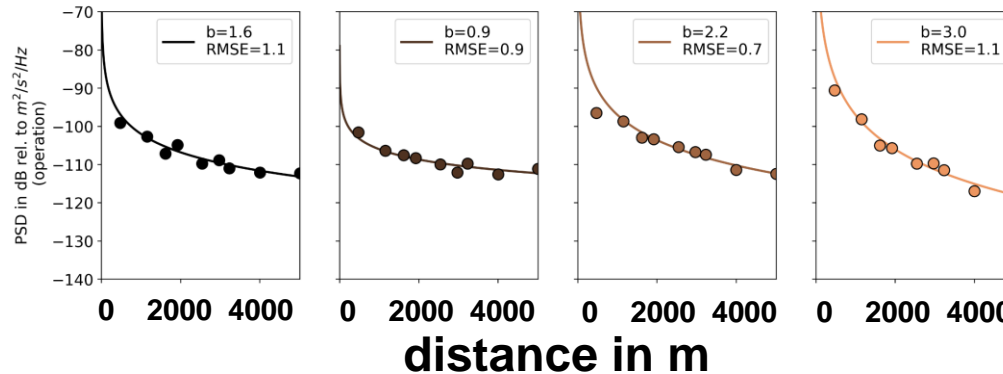
DM02_Toennisvorst b-value estimation from mean PSD
of 102 10 min time windows with no WT operation
of 158 10 min time windows with full WT operation

frequency

PSD without rot.



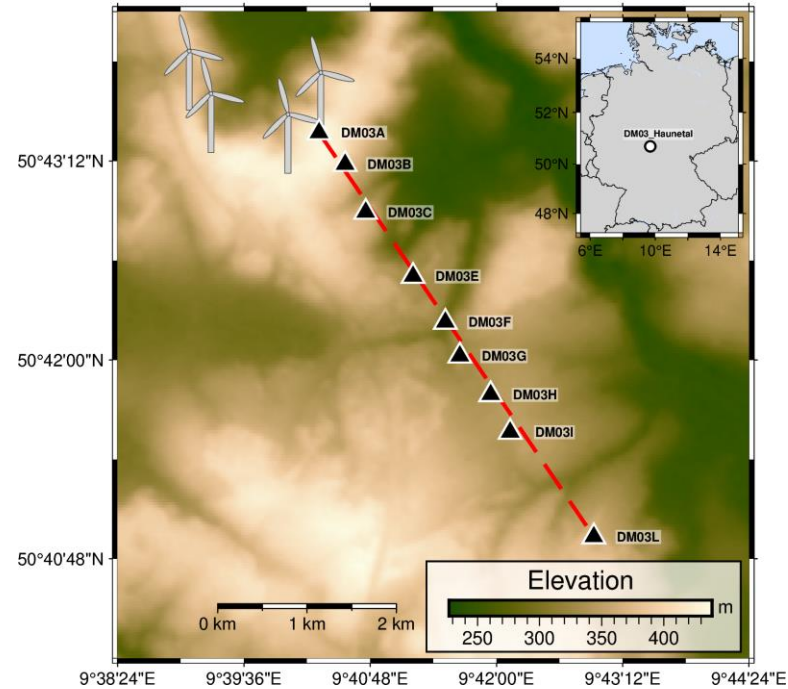
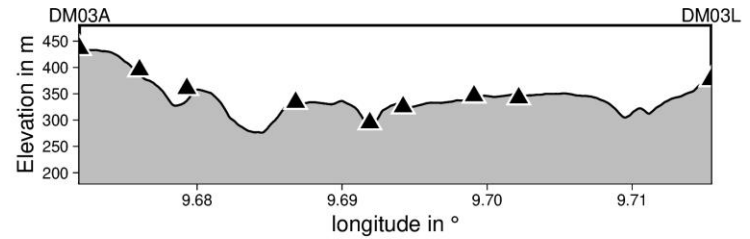
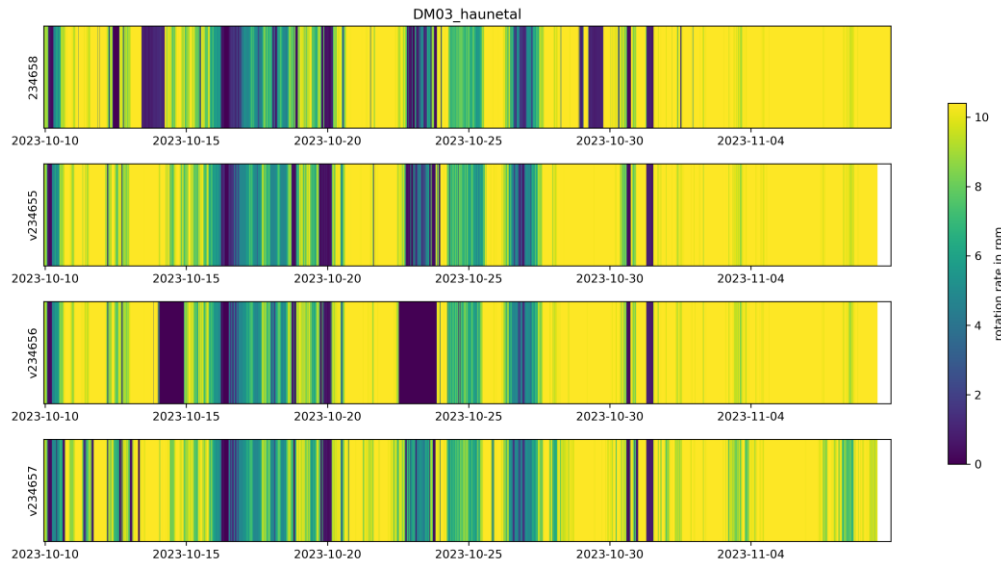
PSD with rot.



DM03_Haunetal

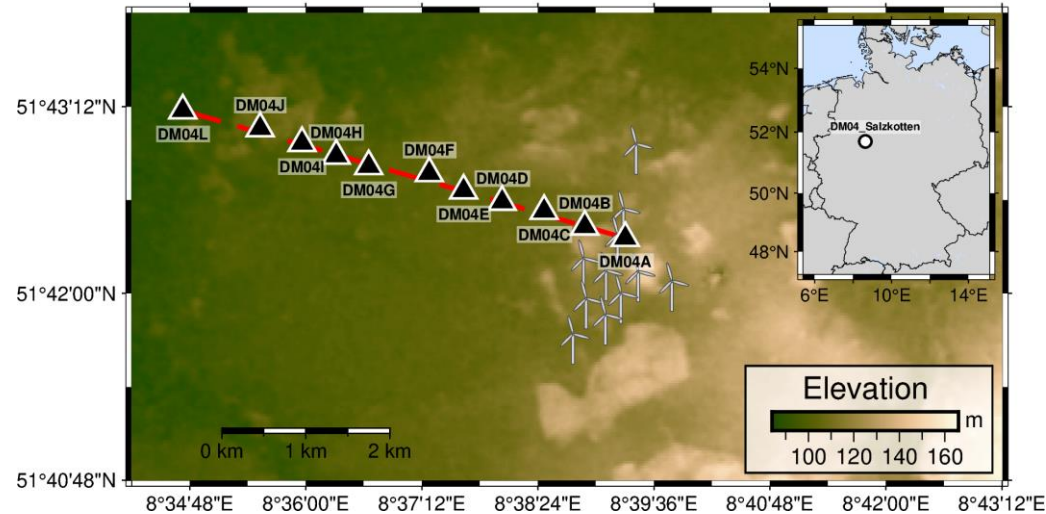
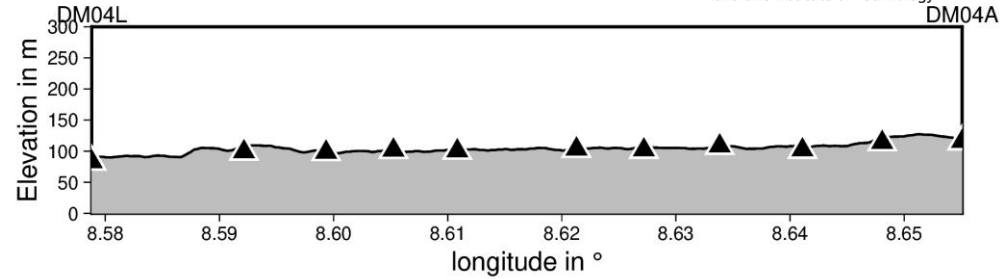
- difficulties to determine a b-value
 - site effects?
 - topography?

rotation rate



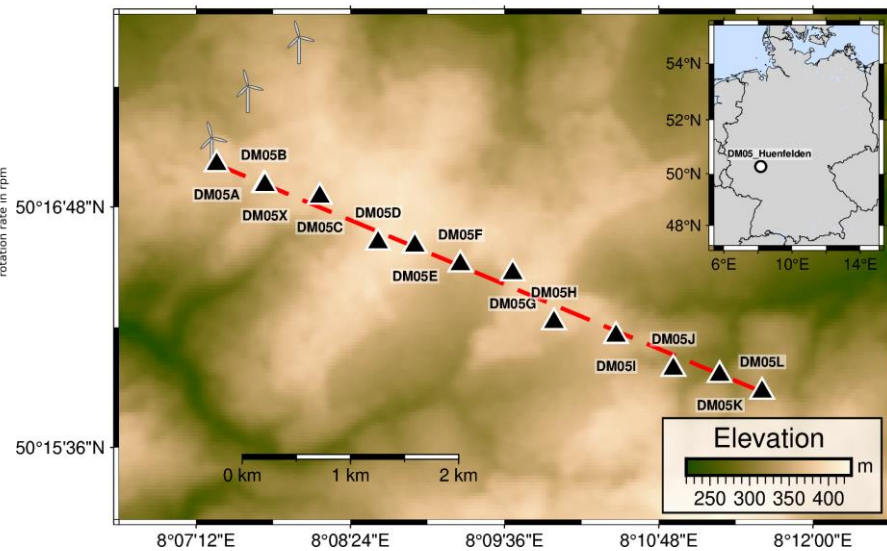
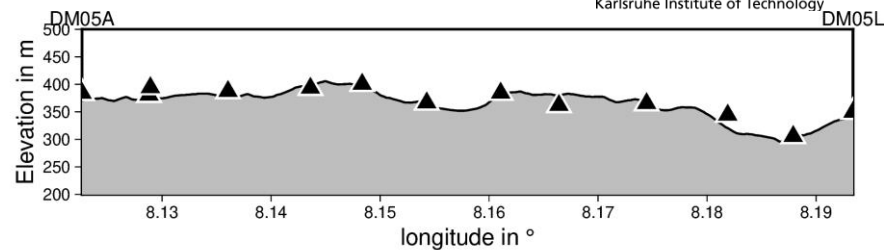
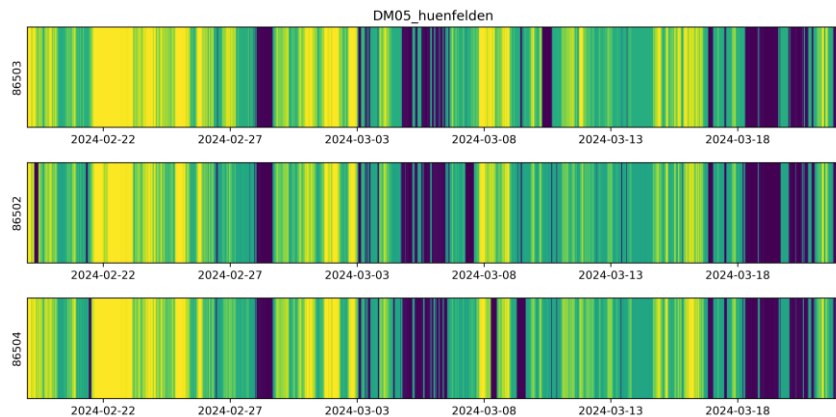
DM04_Salzkotten

- still waiting for data of four WTs ...



DM05_Huenfelden

rotation rate



Outlook

- completed four different measurement campaigns
- two measurement campaigns already planned for October and November 2024
- different measurement campaigns will allow to compare:
 - site effects
 - attenuation
 - topographic influences
 - effects of different number and type of WTs within a wind farm

