

# ***Interactive comment on “A comprehensive dataset of vegetation states, fluxes of matter and energy, weather, agricultural management, and soil properties from intensively monitored crop sites in Western Germany” by Tim G. Reichenau et al.***

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This manuscript provides a comprehensive dataset collected at four agricultural sites within the Rur catchment in Western Germany. The dataset includes various variables, e.g., vegetation states, carbon and energy fluxes, meteorological variables, agricultural management, and soil properties. The topic is an important one and the manuscript is well written. Major Comments 1. The authors have provided detailed description of the development and information about the dataset, e.g., the quality flags and the uncertainty. However, a discussion/conclusion section is missing, where the main ad-

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vantages/disadvantages or the cautions in using the dataset of the provided dataset should be highlighted to the readers. I believe that highlight would greatly benefit the potential users of the dataset. 2. The manuscript seems incomplete with reference section missing. Some basic methods or theory used in the data development process should be cited, e.g., the barometric formula used in Page 16 Line 30.

#### Minor Comments

1. Page 2 Line 19. Why use capital letters in “Monitoring, Modelling and Data”?
2. Page 2 Line 21. “TERENO (Terrestrial Environmental Observatories)” the abbreviation should be in the bracket?
3. Page 3 Line 12. What is “WRB”? please explain.
4. Page 3 Line 12. “carbon (NEE), water (LE), and energy (H)”, please explain the meaning of the abbreviations first before using them, e.g., LE the latent heat flux, H the sensible heat flux.
5. Page 11 Line 21. TYPO. “CO2” should be “CO<sub>2</sub>”. Please also check throughout the manuscript.
6. Page 15 Line 11. TYPO. “On short timescales”?
7. Page 16 Line 6. TYPO. “bad“, or “suspicious“
8. Page 16 Line 30. Reference should be cited for the barometric formula?

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