

Interactive comment on “A Multi-Scale Daily SPEI Dataset for Drought Monitoring at Observation Stations over the Mainland China from 1961 to 2018” by Qianfeng Wang et al.

Anonymous Referee #3

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“A Multi-Scale Daily SPEI Dataset for Drought Monitoring at Observation Stations over the Mainland China from 1961 to 2018” the authors not only produce an daily drought index dataset”, but also analyze spatial-temporal characteristics over mainland China based on the observation data. I think it is a novel study and the datasets are useful. The study improved our understanding on drought chrematistics from 1961 to 2018, and the dataset can used to investigate the relationship between drought index and ecological issues(such as vegetation, land surface water, crop growth, crop yield, hydrological variables and so on). In summary, this manuscript benefited the readers a lot.

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I just have several minor suggestions for your consideration before publication. (1)ÃÃÃ Line 115, I suggest that authors should add the fields of application for SPEI, it will increase the much more attention from the inter-discipline scientists. (2)ÃÃÃ Line 140, “to be sued to” should be revised into “to be used to”. (3)ÃÃÃ Line 170. “fora” should be revised into “formula”. (4)ÃÃÃ Line 214, “too” should be revised into “to”. (5)ÃÃÃ Line 219, “duration of a drought event.” should be revised into “duration of a drought event.” (6)ÃÃÃ Line 237 to 238, Please the authors add the explanation the reason for choosing the trend test method (Mann–Kendall test). (7)ÃÃÃ Author should add the citation for ‘Categorization of drought and wet grade according to the SPEI’ in the table 1.

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