Dear Aboubacar,

Thanks for this. Let’s discuss later today – perhaps 13h Dakar time?

In the meantime, could you please have a look at [https://globalwindatlas.info](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fglobalwindatlas.info%2F&data=05%7C02%7CA.Hema%40cgiar.org%7C8c845be9f4004205e5dd08dcaa32bcf8%7C6afa0e00fa1440b78a2e22a7f8c357d5%7C0%7C0%7C638572382133564254%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C0%7C%7C%7C&sdata=90YfdqOzWU9SUOTeBOKHZmaFOYiXlmslOUG2RuX01KI%3D&reserved=0) or the datasets that Rogerio was referring to?

I would like to add a weather variable on stormy days (similar to dry and heavy rainfall). That is:

1. Aggregate daily pixel values of average windspeed to adm2 areas
2. Find a threshold to identify stormy days
3. Derive frequencies and spells of stormy days

Best  
Wim

Dear Rogerio and team,

Still some more questions 😊, but these are very easy and quick for you to respond (except perhaps for point 3).

1. What is the reference dataset used for soil moisture in the CDI? Please, perhaps also check the data sources for the other CDI components in the table below.

Details in the table below

|  |  |
| --- | --- |
| **Indicator** | **Data** |
| **Seasonal rainfall** (input) | CHIRPS |
| **Seasonal soil moisture**  (storage) | ERA5 (reanalysis). This is Root Zone Soil moisture a depth weighted average of the top three individual soil layer moisture values |
| **Seasonal potential evapotranspiration**  (demand) | FAO WAPOR: Penman Monteith formulation using AgERA datasets (from ERA5 but bias corrected and improved resolution) |
| **Seasonal Combined Drought Index** | Based on the datasets above |

1. In an earlier communication, you mentioned that you have been using/testing the 20 mm absolute cut-off for heavy rainfall. Is there any reference to back this operational choice? (no worry if there is not)

The 20mm are used in a climate indicator specification data set. I’ll find the reference

1. Would it be possible to have ***daily*** temperature data aggregated by the same adm2 levels, similar as for the daily rainfall data? Previously we did receive the temperature data by dekads, but now we are thinking of mimicking the approach of dry/heavy rainfall days to the temperature dimension as well.

Need to check with Valentin

1. Are you aware of any data on windspeed? Another important climate hazard in the Sahel appears to be sandstorms. Again, if possible, daily maximum windspeeds aggregated by adm2 levels could serve our needs.

I think it’s in ERA5 / C3S, but we have not ingested, have no plans to and have no idea of how accurate it might be. One of those to be cautious about

Thanks!  
Wim