

Review of: "Challenges and Prospects of Aerosol-Cloud-Precipitation Studies Over Africa"

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Potential competing interests: No potential competing interests to declare.

Review of the article: 'Challenges and prospects of aerosols-clouds-precipitation studies over Africa' by Adesina and Bola Wojuola

Detailed Comments

Introduction:

The phrase '... unique composition of the continent's atmosphere ...' is unclear and could be clarified.

In many of the statements, there is a broader range of articles that should be cited. For instance, it is unclear why Mashayekhi and Tao were specifically chosen.

A key challenge missing from the discussion relates to the diversity and concentration of aerosols. There are very high levels of black carbon in Central Africa, and the Sahara is the largest producer of dust aerosols in the world.

More examples of joint research initiatives would be helpful.

Chapter 2: Field Campaigns

The sources of funding for the field campaigns need to be mentioned.

For each example, concrete results and outstanding questions or future directions should be highlighted.

Campaigns such as Dust Attack, AEROCLO, CADDIWA, and BOMEX should also be referenced.

****Chapter 3: Measurement and Modeling****

Sentinel products and MTG are relatively new and should be mentioned, as they are extremely useful.

Aircraft campaigns should be cited in the previous chapter.

A map showing operational radar systems and radiosonde sites in Africa would be very useful. Please refer to the WMO information on this.

Chapter 4:

I recommend reorganizing the structure of this section to better present the different needs. Start with data and then address the understanding of specific topics such as microphysics and climate. As it stands, there is too much back and forth between related themes. With a more comprehensive list of campaigns and projects in Chapter 3, and clearer identification of the key results, it would be easier to grasp the key unresolved questions.