



- To improve our understanding of the WAM and its influence on the physical, chemical and biological environment regionally and globally.
- To provide the underpinning science that relates variability of the WAM to issues of health, water resources, food security and demography for West African nations and defining and implementing relevant monitoring and prediction strategies.
- To ensure that the multidisciplinary research carried out in AMMA is effectively integrated with prediction and decision making activity.



High impact weather and research themes



This WG is concerned with improving our knowledge and understanding of high impact weather in different regions over the West African continent, downstream tropical Atlantic and the extratropics.

- (i) West African Continent: onset and duration of wet/dry spells including monsoon onset; risk of heavy rainfall/floods, aerosol?
- (ii) Downstream Atlantic: tropical cyclogenesis and intensity change; role of large-scale (e.g. shear, SAL, dry air, large-scale convergence)
- (iii) Extratropics: extratropical transition, Rossby wave trains



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Need to better understand these phenomena, including the extent to which they are predictable



5. Proposed Operational Activities



(i) Impact of additional observations and especially radio-soundings over West Africa in analysis/forecasting systems for:

- a) West Africa
- b) Atlantic & USA
- c) Europe

(ii) Targeted observations in tropical regions (SOP2 & SOP3)

(iii) Tailoring forecast products for users in tropical regions (1-14day)