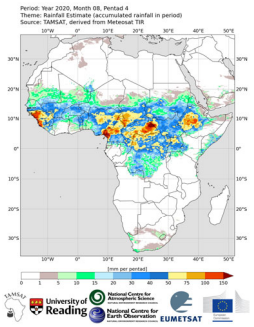
Exploiting satellite and ground-based environmental data to support food security in Africa

Summary

Food insecurity can be alleviated by prompt response to adverse weather via early action protocols. Currently, lack of information on reliability hampers exploitation of satellite rainfall estimates in such protocols.

In this project, TAMSAT are pioneering a novel rainfall estimation methodology that provides robust information on reliability. Co-development with West African agency AGRHYMET ensures lasting impact of this new climate service.



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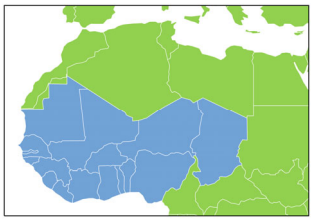
Partnerships for global development: 9 Dec 2020

Key findings/learning/outcomes

- Development of the "TAMSAT Virtual Academy" – an online, permanent resource to support users in the understanding and uptake of the new satellite rainfall dataset.
- Conducting capacity building virtually (instead of in-person workshops) has been a massive success!
- The new rainfall estimation methodology is largely complete and is currently being tested over West Africa.
- We have agreed a plan with AGRHYMET to trial the new dataset to support their operational climate and agrometeorological monitoring activities.

Where?

West Africa



Project partners/funders

- **TAMSAT** (University of Reading)
- **AGRHYMET** (AGRrometeorology, HYdrology, METeorology)
- **CHC** (Climate Hazards Center, UCSB)