

Feedback on FANFAR system and Floods during 2019

The Gambia / West Africa National Disaster Management Agency

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10 – 14 February, 2020



Flood events during 2019

Summary of all events

Number of floods	3 Flash Floods
Casualties	3 casualty
People affected	12, 278 people
Damage cost	No Cost Benefit Analysis

Worst event

Where	Bundung and Bakau, Lat 13.4 Lon:16.67
When	2019-08-28
Casualties & damage	3 deaths, 101 people affected and No Cost Benefit Analysis

Second worst event

Where	Bantanto-CRR, lat:13.69, lon:15.25
When	2019-09-01
Casualties & damage	1 death, 33 people and No Cost Benefit Analysis



Accuracy of FANFAR forecasts & alerts

How well did FANFAR forecast floods / streamflow peaks during 2019?

1. As for The Gambia we did not test FANFAR forecast floods; however the department of water resources provide forecast rain gauge that are located within strategic places across the country as well as tide recorders along the riverine areas.
2. How well did FANFAR capture the **location** of peak flows? Was it Correct / Near / Far/ Upstream / Downstream?
3. How well did FANFAR capture **timing** of the peak? Example: 2 days early, or 1week late
4. How well did FANFAR capture the peak **magnitude**? Example: overpredicting by 10%, or underpredicting by 30%

Please illustrate & give evidence for your accuracy assessment (responding to the questions above)

This can be graphs, maps, screenshots, photos, videos, statistical summaries etc.

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Accuracy of FANFAR forecasts & alerts

5. How well did the forecasted **severity level** (yellow/orange/red) correspond with the actual severity observed in the field? Did it vary in any way? Example: FANFAR typically showed higher severity than real impacts on the ground, except for the most severe events where it was about the same.
6. Were there any **false alerts**? E.g. Yes on 2019-09-01 in Niamey FANFAR had severity level 2, but nothing was observed on the ground

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How we used the FANFAR system in 2019



Forecasting system used:	<input checked="" type="checkbox"/> FANFAR	<input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> NONE
How often:	<input type="checkbox"/> < 1 PER WEEK	<input type="checkbox"/> 1-7 TIMES PER WEEK	<input checked="" type="checkbox"/> EVERY DAY
At what time:	<input checked="" type="checkbox"/> BEFORE FLOOD	<input checked="" type="checkbox"/> DURING FLOOD	<input checked="" type="checkbox"/> AFTER FLOOD
What component(s):	<input checked="" type="checkbox"/> VISUALISATION PORTAL	<input type="checkbox"/> HYDROLOGY-TEP	<input type="checkbox"/> KNOWLEDGE BASE

1. **What is your general experience from using FANFAR?** Well we did not tested in our flood forecasting
2. **What is the most useful feature of FANFAR?** Accuracy
3. **What is the most important feature to improve?**
4. **Did you use FANFAR flood risk information in material sent to your stakeholders? What information? How did you distribute it (bulletin, e-mail, whatsapp, sms, etc.)? Please give example (e.g. image/screenshot).** Ans= Not actually FANFAR Flood information but forecast information are sent through bullentin, email, social media



Additional feedback

- Optionally, you can provide additional feedback on the FANFAR system [here](#)
- Fanfar system is very good for flood forecasting but as earlier suggested the Department of Water Resources responsible forecasting in The Gambia should be invited so to enable us use the Fanfar system.



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