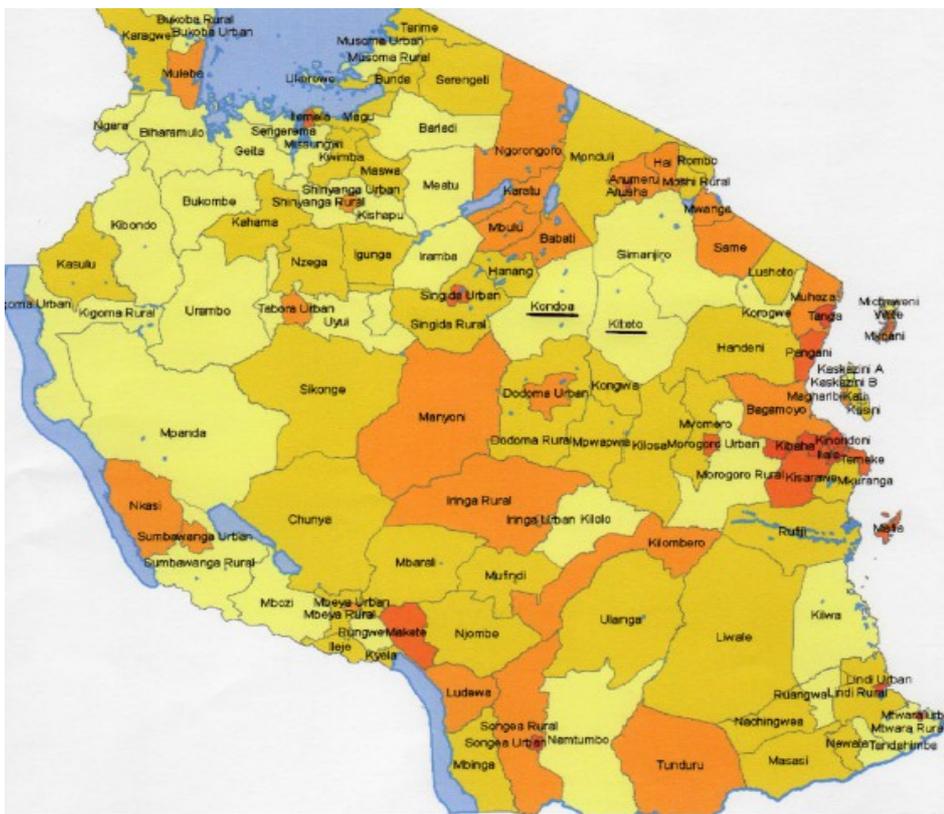


### Seasonal Forecasting Review Report TANZANIA



*The Districts of Tanzania*

**Content :**

**Annex 1 : Response of TMA to the questionnaire**

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**Annex 1 – Response of TMA to the questionnaire****Seasonal Forecasting System Review***J.P. Céron - jpceron.wmo@gmail.com*

## 1. SF system

## 1.1 Large Scale information (LSI)

Are the impacts of LSI on your country well established (referenced papers, studies, ...) ? Yes

Which LSI are you currently using ? GFS, GPC (UK Met Office), ECMWF, APCC, etc.

Who is providing such information ? IRI, UK Met Office, ECMWF, APEC Climate Center, etc.

Is it observed, predicted or both ? Both (but mostly predicted)

Is some crucial LSI are missing or are not provided timely ? Yes

If Yes please details ! GPC products not accessible in GPC website; even after registration (the web won't let us login)

## 1.2 Regional/Local information (RSI)

Which RSI are you currently using ? RCOF (GHARCOF and SARCOF), In-house Seasonal Rainfall/Temperature forecast (based on both statistical and input from LSI/GCMs)

Who is providing such information ? RCOF (GHARCOF and SARCOF)

Is it observed, predicted or both ? Both (but mostly predicted)

Is some crucial RSI are missing or are not provided timely ? No

If Yes please details ! NA

## 1.3 Products to prepare

Which products are you issuing ? Long range rainfall (and sometimes temperature) forecasts

Which are the space and time scales appropriate for your products ? Seasonal (3 months) and Sub-seasonal (monthly)

Which is (are) the relevant Lead-Time(s) ? At least one month

Are the products probabilistic, deterministic or both ? Both

Do you need daily, monthly or seasonal quantities for your products ? We need monthly and seasonal ; since we deal with long range (seasonal or at most monthly) we hardly need daily quantities

Are the different products presented as maps, bulletins, digital data ? maps and bulletins (hardly digital data)

Are some important and/or expected products missing ? If Yes which and why. We miss digital data ; which is becoming more and more required

Are you checking the quality of the issued products (wrong information, inconsistency, ...) ? Yes. However quality checks are limited since the products are in maps and/or bulletins

## 2. Operations

Is your SF operated routinely ? Yes

If Yes, to which frequency ? Which is the date(s) of issuance ? at least four times a year

If No for which occasion(s) ? NA

How long the preparation and issuance of your SF take ? One month

Do you have any process to follow-up the operations (e.g. task monitoring, ...) ? Yes

Is your system operated manually, automatically or in between ? Manually

Are your operations described into a specific document ? Generally yes (not all documents are documented)

How are you ensuring the sustainability of your operational system ? By making seasonal weather forecasting capacity building every time a forecast is prepared. By making sure that the computers and packages are in place and well maintained. A Mac machine was recently procured

[specifically for seasonal forecasting](#)

Is your SF operated jointly or separately with your Weather Forecasting System ? [Generally separately](#)

### 3. Methods

#### 3.1 Generality

Is your SF mostly based on Dynamical, Statistical or Hybrid methods ? [Dynamical and statistical](#)

In addition are you using expert judgement ? [Yes](#)

For dynamical/hybrid methods which model(s) are you using ? [GFS, ECMWF, GPC](#)

For statistical/hybrid methods which methods are you using ? Using which software/tool ? [Multiple Linear Regression models and Analog Years. Packages : Systat, CPT, GrADS](#)

Are you facing difficulties to use these methods ? (please details) [We lack full expertise on the use of some of the packages as well as methodologies e.g. in making homogeneous climatological zones etc.](#)

Do you have difficulties to get relevant and updated information on these topics. [Not as much](#)

#### 3.2 Downscaling

Do you prepare downscaled forecasts and products ? [Yes](#)

Is it for specific application(s) ? If Yes please details. [Generally yes ; it is done mainly for agriculture and livestock keeping](#)

To which space and time scales are you downscaling your forecasts and products ? [District to ward level. Done in seasonal time scales](#)

Is your downscaling dynamical, statistical or both ? [Statistical](#)

Same questions for upscaling (if any – e.g. moving from stations to spatially integrated information) [We've never done upscaling](#)

#### 3.3 Dataset

Which reference period are you using for your SF ? [1981-2010](#)

Are all the used data quality controlled ? [Yes \(by climat/data section\)](#)

Are the data homogeneous over the reference period ? [Didn't understand the question](#)

Is there any missing data ? [Yes](#)

Is the access to some crucial data missing or difficult with respect of operations ? [Yes](#)

Same question with respect of R&D ? [Yes](#)

#### 3.4 Verification

Are you computing scores and skill-scores associated to your SF ? [Yes](#)

Are you using the SVS (or part of the SVS) ? [Dont understand what it means by 'SVS'](#)

Are you using additional verification ? [Not sure](#)

Are you monitoring the quality of the current SF ? If Yes with which scores ? [Yes. Skill Scores](#)

### 4. Resources

How many staff involved into operations ? Into the R&D of your SF ? [Around 20](#)

Which connection between the R&D side and the operations ? [SF is always done jointly between R&D and operations \(forecasting\)](#)

Which computing resources involved into the operational process ? [PC and/or Mac desktops as well as laptops](#)

Are you facing specific difficulties for the maintenance of computing resources (hardware and software) ? [Yes. Takes along time between the issue is reported and when it is fixed.](#)

Same question for human resources (e.g. maintenance of competencies) [Not as much](#)

### 5. Application



Are your products directly related to specific application domains (Water, Health, Agriculture, Energy, DRR, ...) ? [No](#)

Are the products probabilistic, deterministic or both ? [Both](#)

Which type of stakeholders is using your SF (institutional, private, ministry, ...) ? [All of these](#)

Which decision(s) are taken using your products ? With which Lead-Time ? [Hard to know](#)

Do you have any regular feedback from the stakeholders using your SF ? [Feedback is limited](#)

How the liaison with your stakeholders is achieved ? [Through workshops everytime the SF is about to be issued](#)

#### 4. Communication

How are you preparing the communication of your SF to your different users ? [Statement to the public is prepared](#)

Which media (technical viewpoint) are you using to convey your SF to your different users ? [Press releases, email, social media \(twitter, facebook\)](#)

Do you face any concern with the message to communicate ? [As expected, not all users get the message or get it in time](#)

Do you have any regular press release, interviews, ... regarding your SF ? [Yes. In every seasonal forecast](#)

Do you have any user facilities to help them into the use of your information ? [No. But the media is trained \(each time seasonal forecast is about to be issued\) to convey the message to the users](#)

#### 5. General organisation

What is the nature of your mandate for Climate Prediction ? For Climate Projection ? [TMA is the sole entity which is mandated to issue weather and climate information to the Public](#)

Do you have any mandate for providing Climate Services ? [Yes](#)

If Yes please detail the nature of your mandate, if No please give details on which organisation have the mandate or why there is not yet any mandate in your country. [Tanzania Meteorological Agency has the mandate to issue all weather/climate information to the public](#)