



AFRICA REGIONAL TRAINING ON SEVERE WEATHER FORECASTING AND WARNING SERVICES: WORKSHOP ON PUBLIC WEATHER SERVICES

Pretoria, South Africa, 18-22 November 2013

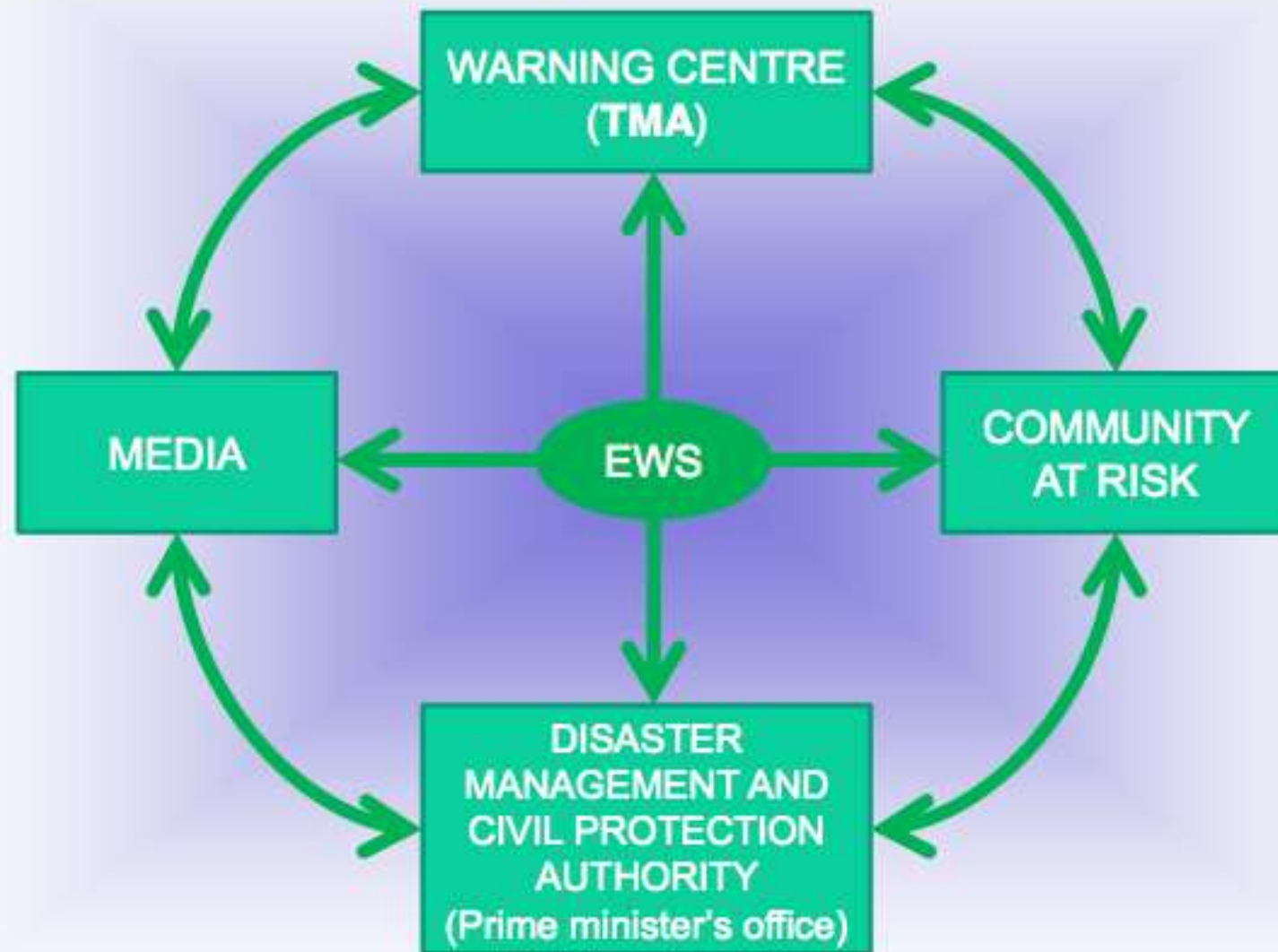
National Public Weather and Warning Services including arrangements and mechanism for production and dissemination of warnings

By

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COMPONENTS OF EARLY WARNING SYSTEMS (EWS) IN TANZANIA



Each component above has Standard Operating Procedures (SOPs) in the event of severe weather



Tanzania major hazards and severe weather events



These include the following

1. Weather and Climate related hazards

✓ Drought/dry spell

✓ Heavy rains/Floods

✓ Strong Winds

✓ Large waves

✓ Tropical cyclone

(TMA uses the information from La Reunion)

2. Tsunami along the coast



Tanzanian Hazardous moments



FLOODS:
Dar es Salaam
(2013
MAM)



Floods:
Mwanza
Airport
(2012
OND)



Dar es Salaam
(Strong winds)

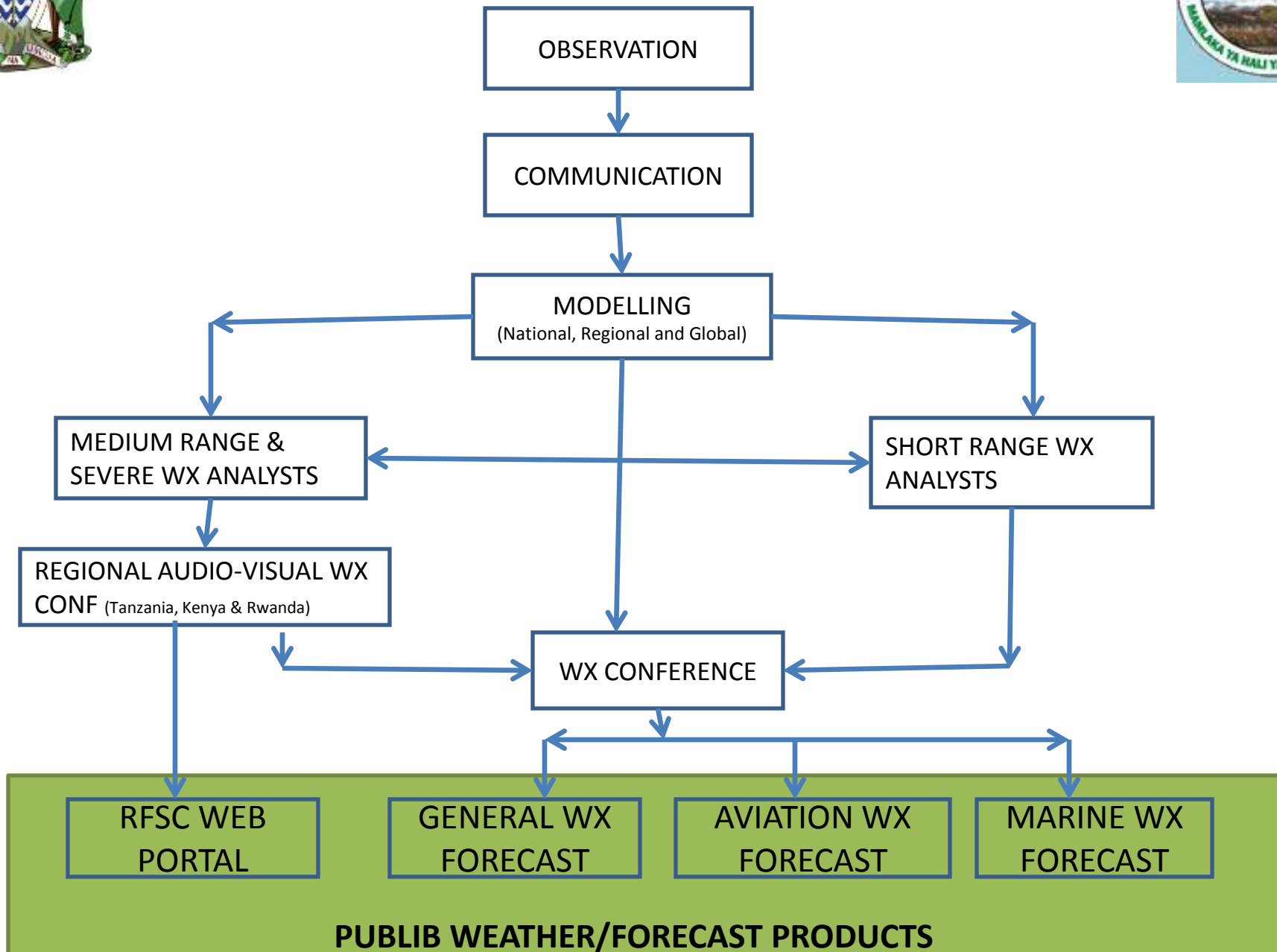


Drought at
Manyara
region



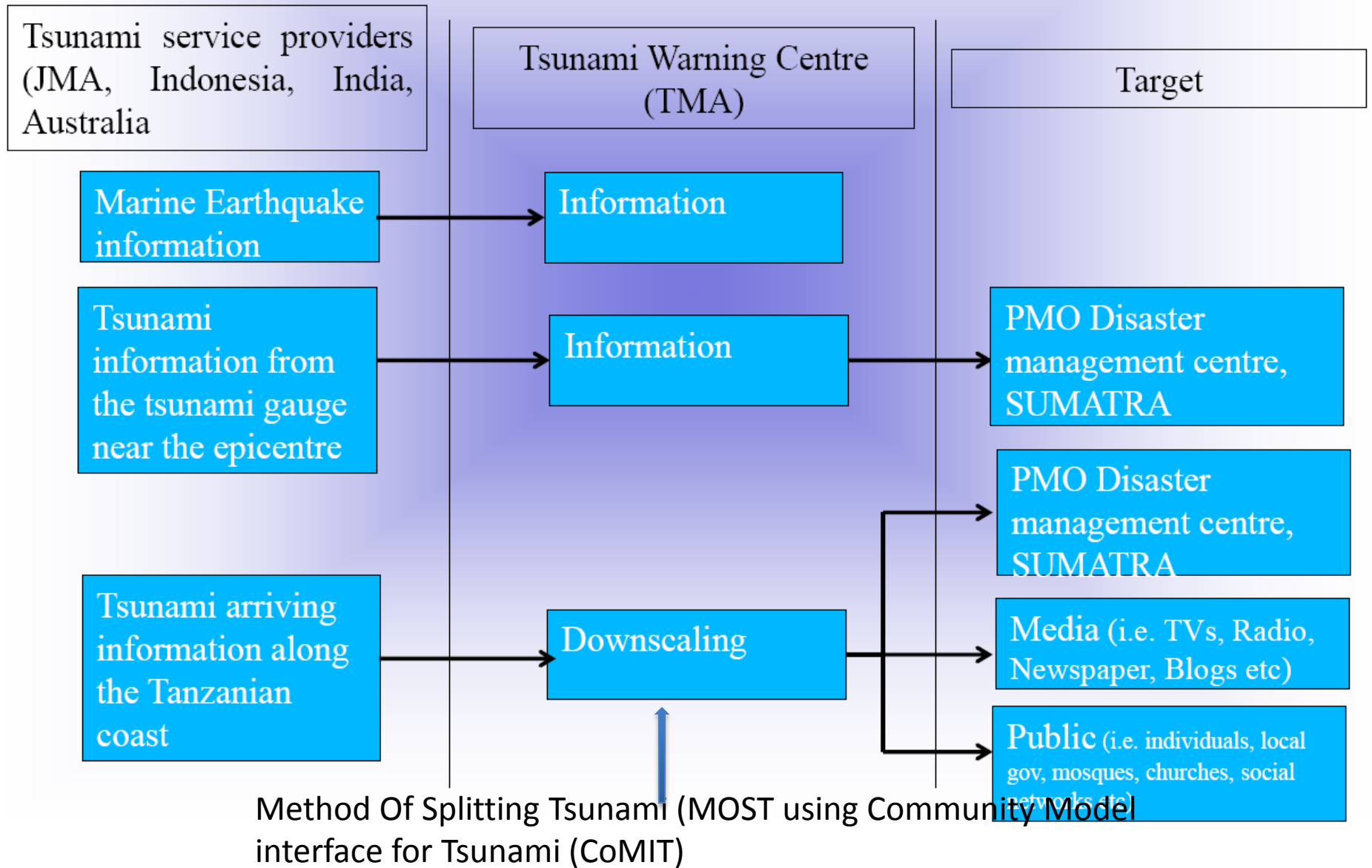


Processes for Weather and climate related Hazards





Forecasting processes for Tsunami



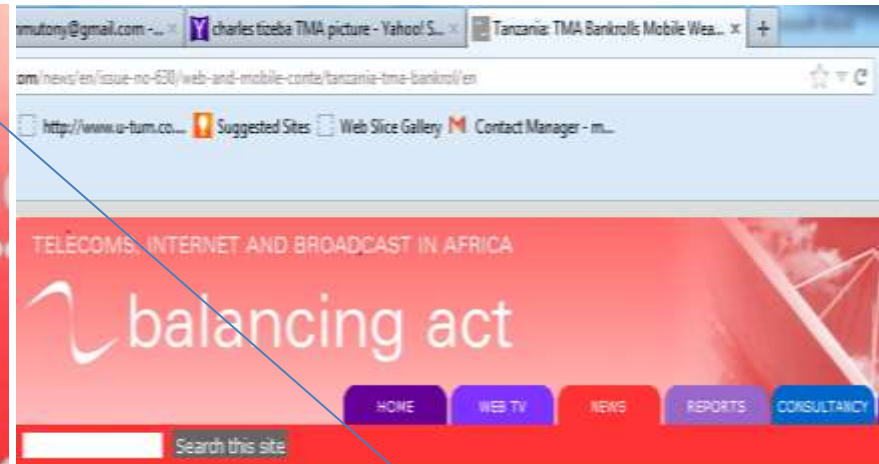


Warning dissemination mechanism

- Television stations (WX forecasts, special programme etc)
 - Radio stations (Community radios etc)
 - Emails
 - Newspapers
 - Website (www.meteo.go.tz) and RSS feed for CAP message (test)
 - SMS through TiGO and Vodacom WX information subscribers, airtel agriculture advices, MWA
 - Press release and Briefing
 - Social Media
 - www.facebook.com/tmaservices
 - www.twitter.com/tma_services
 - www.youtube.com/TanzaniaMetAgency
 - Blogspots
 - Jamii forum
- (Public education programmes)



TMA collaboration with mobile companies (Vodacom)



Information to the Public



Take precaution of rainfall October, 2011 to December, 2011

Heavy falls expected next month

NEWS

TELECOMS ENGLISH

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EN FRANÇAIS

NEWS ARCHIVES

SUBSCRIBE

elecoms

- Namibia: MTC to have 45% roll-out of LTE by end 2013
- Nigeria - Mobile subs top 106.9m in 3Q12
- Togo: Government states formal aim to license MNO
- Africa Becomes World's

DIGITAL CONTENT

Tanzania: TMA Bankrolls Mobile Weather Services

Issue no 630 9th November 2012

The Tanzania Meteorological Agency (TMA) has officially started offering mobile weather services, which among other things assist fishermen monitor weather conditions in the water bodies, the House heard.

The deputy minister for transportation, Dr Charles Tizeba, said the government was taking the measure to reduce accidents and enable fishermen and other people to carry on with their activities in lakes safely. Dr Tizeba said the government was collaborating with other stakeholders including mobile phone companies to offer the services and the programme was already being tested in some parts of the country.

"The programme became operational in May 2012. TMA in collaboration with other stakeholders is currently providing weather services through mobile phones," said Dr Tizeba. He added that TMA was working closely with two local companies – Starfish Mobile and Vodacom Tanzania to put the programme in place.

Source: Tanzania Daily News

(Tanzania Met Agency has issued seasonal forecast for March- May 2013)
Headline on swahili for public use and understandable language (message)

WEDNESDAY, FEBRUARY 27, 2013

MAMLAKA YA HALI YA HEWA NCHINI YATOA TAARIFA YA MWELEKEO WA MVUA ZA MSIMU WA MACHI-MEI 2013

JAMHURI YA MUUNGANO WA TANZANIA
WIZARA YA UCHUKUZI
MAMLAKA YA HALI YA HEWA TANZANIA

Wakilishi wa Mamlaka: 212 12 2441 (12/2441) M-0
FAX: 212 24 2441 (12/2441)
Simu ya Posta: 2121000000000000
Simu: 212 24 2441 (12/2441)

Uangaji wa taarifa hii ni: 27 Februari, 2013
Ref. No: TMA/1622

TAARIFA KWA VYOMBO VYA HABARI
MWELEKEO WA MVUA ZA MSIMU WA MACHI HADI MEI 2013

Taarifa hii inatoa taarifa ya msimu wa mvua wa Yuli kwa msiri ya Oktoba hadi Disemba 2013. Msimu zinataradaiwa kuwa msimu ya kanda ya kati, mugharibi, nyanda na jani kavini mugharibi na milima ya kavini pamoja na mwelekeo wa ardhine ya hali ya hewa na mvua za Msimu katika kipindi cha msiri ya Machi hadi Mei (MAM) 2013.

A. UTANGULIZI
Tafariti ya mvua za Yuli katika kipindi cha msiri ya Oktoba hadi Disemba, 2012 inaspejeka kuwa msimu wa mvua wa kanda ya kati, mugharibi, nyanda na jani kavini mugharibi na milima ya kavini pamoja na mwelekeo wa ardhine ya hali ya hewa na mvua za Msimu katika kipindi cha msiri ya Machi hadi Mei (MAM) 2013.

Salamu. Tangu kilewa cha Uingaji ambayo yaliyopata mvua za chini ya wastani. Hata hivyo, mawanyiko wa mvua hizi kuakana msiri na uharufu na matokeo ya hali ambayo ya hewa kama vile, wazi mkali na mvua kubwa ambayo yaliyobakia muda yaliyopokeka viti.

MUHIDIN ISSA MICHUZI

WINDHOEK LAGER

**SPECIAL OFFER
ON THIS
CHRISTMAS**



Public education





UNITED REPUBLIC OF TANZANIA
MINISTRY OF TRANSPORT
TANZANIA METEOROLOGICAL AGENCY

Telegrams: "METEO" DAR ES SALAAM.
Telephone: 255 (0) 22 2460706-8
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P.O. BOX 3056
DAR ES SALAAM.

<http://www.meteo.go.tz>

Our ref: TMA/1622

29th January, 2013

Information to the Public: Heavy Rainfall expected

<i>Information No.</i>	20130129-02
<i>Time of issue (Hour) EAT</i>	6:00pm
<i>Category:</i> 1:Information 2: Advisory 3:Alert 4:Warning:	Advisory
<i>Valid from:</i> Date	30 th January, 2013
<i>Valid to:</i> Date	1 st February, 2013
<i>Phenomena/Hazard/Disaster</i>	Heavy rainfall (above 50 mm in 24hrs)
<i>Level of Confidence:</i>	Medium
<i>Expected affected Areas :</i>	Some areas of Rukwa, Iringa, Mbeya, Njombe, Ruvuma, Morogoro, Lindi, Pwani, Mtwara regions and neighboring areas.
<i>Text:</i>	Existence of Tropical cyclone "FELLENG" over the North-east of Madagascar which pulls moisture-rich air from Congo through above mentioned areas.
<i>Advisory:</i>	Residents of high-risk areas, users of land and sea; and Disaster management institutions are advised to take necessary precaution
<i>Remarks:</i>	Updates regarding the mentioned Tropical cyclone will be issued when necessary

ISSUED BY TANZANIA METEOROLOGICAL AGENCY



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MINISTRY OF TRANSPORT
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Our ref: TMA/1622

29th July, 2013

Information to the Public: Strong winds and Large Waves over the Indian Ocean and the Lake Victoria

<i>Information No.</i>	201307-01
<i>Time of issue (Hour) EAT</i>	15:00
<i>Category:</i>	Warning
<i>Valid from:</i> Date	30 th July, 2013
<i>Valid to:</i> Date	02 nd August, 2013
<i>Phenomena/Hazard/Disaster</i>	Strong winds exceeding 40km/hr and large waves exceeding 2.0metres are expected.
<i>Level of Confidence:</i>	High: (80%)
<i>Expected Area :</i>	Entire coast (Tanga, Dar es Salaam, Pwani (Mafia Included), Lindi and Mtwara regions together with Unguja and Pemba isles. Southern parts of the Lake Victoria (Mwanza and Geita regions).
<i>Text:</i>	This is due to intensification of ridging-high pressure system along the south-east of Africa.
<i>Advisory:</i>	Users of sea and the lake are advised to take necessary precaution.
<i>Remarks:</i>	All marine and lake users are advised to take necessary safety measures due to anticipated large waves and strong winds. TMA will continue to monitor the situation and issue updates accordingly.

Issued by
Tanzania Meteorological Agency



Example of Warning on the Facebook

www.meteo.go.tz



Example of Warning on the RSS Feed



TAHADHALI YA UPEPO MKALI NA MAWIMBI MAKUBWA KATIKA BAHARI YA HINDI 17-19 JUNI 2013

Upepo Mkali unaozidi kilometa 40 kwa saa na mawimbi makubwa yanayozidi mita 2.0 katika Bahari ya Hindi, Mamlaka ya Hali ya Hewa inatoa tahadhai kwa makazi wa maeneo ya pwani na watumiaji wa Bahari kuchukuwa Tahadhari. Mamlaka ya Hali ya Hewa inaendelea kufuatilia hali hii na itatoa taarifa kila itakapobidi.

STRONG WINDS AND LARGE WAVES WARNING OVER THE INDIAN OCEAN 17-19TH JUNE, 2013

Strong winds exceeding 40km/hr and large waves exceeding 2.0metres are expected along the entire Tanzania coast. All sea users are advised to take necessary safety measure due to anticipated strong winds and rough seas. TMA is continuing monitoring the situation and will issue updates accordingly.

Like Comment

1



Machache kutoka kwa Mkuruzi wa TMA



Mwakilishi wa Mkuu wa Wilaya Dwi Charles Moshi, Murugenzi Mkuu TMA Dkt. Agnes Kijazi kabika picha ya pamoja na watabiri wa asili na baadhi ya wataalam kutoka TMA, kwenye uzinduzi wa huduma ya upatikanaji wa taarifa za hali ya hewa kwa wakulima kupitia simu za mikononi ulivao FamiSMS



Latest Alerts Published by TANZAANIA METEOROLOGICAL AGENCY (TMA)

Latest alerts posted by TANZAANIA METEOROLOGICAL AGENCY (TMA)

Heavy Rainfall for Lake victoria Basin

On Monday, October, 21, 2013 Tanzania Meteorological Agency issued a strong wind and large waves for the marine users at the Lake Victoria. This warning includes, all marine users around the lake Victoria and small isles around Mwanza, Kagera and Mara regions. The warning is effective until 3:00 pm East African Time

Heavy Rainfall for Lake victoria Basin

On Tuesday, Aug. 14, 2007 the National Weather Service issued a flash flood warning for south central San Bernardino county and western Riverside county and north central San Diego county in Southwest California. This warning includes, but is not limited to, the cities of East Hemet, Forest Falls, Idyllwild, Valle Vista, Cherry Valley, Beaumont and Banning. The warning is effective until 4:30 pm pdt victor The watersheds recently burned by the Esperanza fire will be particularly susceptible to flash floods and debris flows during the rainstorms. Communities of Beaumont and Banning, located adjacent to the burned area, including Smith canyon and Potrero creek may be affected by these events. Roads that cross burned drainages are also susceptible to flash flooding and debris flows. These include, but are not limited to: Beaumont ave., Circle C rd., Castle Cyn rd., Highland Springs ave., Old Banning Idyllwild rd., Shirleen dr., Poppet Flats rd., state Highway 243, Cryer drive and Mt. Edna rd.

Challenges

- Misinterpretation/distortion from the media (more training workshop to media, stakeholder etc)
- Religious beliefs
- Remote areas (trying to use community radios, redcross etc)



Media Training workshop on the language used in forecasting and dissemination -20 November 2012



Feedback

- Phones/Mobiles
- Questionnaires (Exhibitions, Meetings, Interview, suggestion boxes etc)
- Consultative meetings with stakeholders
- Social media
- Live programmes on TV and radios
- Website (National Website), TMA website on maintenance for public opinion site

Thank you Asante

**MWELEREO WA MVUA ZA NSIMU
OKTOBA HADI DISEMBA 2012**

ETEO	KIJANEA KWA MVUA	MUKABATI
RONDA YA ZWA (Mwaka wa Kwanza, Mwaka wa Pili, Mwaka wa Saba, Mwaka wa Tisa)	WIKITA PULYA MWEZI SEPTEMBER (Kigoma na Mwaka wa Saba)	WASTANI HADI CHINA YA WASTANI (Kigoma na Mwanzi)
	WIKITA TATI NA MWEZI OKTOBA (Mwaka wa Nne, Mwaka wa Saba, Mwaka wa Nne, Mwaka wa Saba)	CHINA YA WASTANI HADI WASTANI (Mwanzi, Goma, Mwaka wa Saba)

