RCMRD Report- UNSPIDER 2020 RSO meeting











List of activities in 2019-2021

2019

- I. Flood mapping in Kenya- Oct-Nov 2019
- 2. Desert Locust monitoring in E Africa- Nov-Dec 2019 (then to present)
- 3. Charter Activation for landslides in Kenya- Dec 2019
- 4. Charter training and UNSPIDER conference in Bonn, Germany- Nov 2019

2020

- I. VCI forecasting in Kenya (expansion to E Africa n 2021)
- 2. COVID-19 portal for E&SA region/RCMRD member States
- 3. VIA in Tanzania- published a peer reviewed article (Sustainability journal)

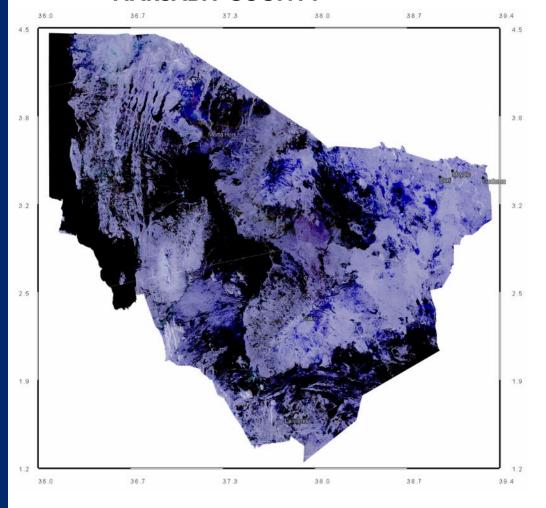
2020-21

- I. CBFEWS establishment in Malawi (33 villages in 8 districts)- UNDP funding
- 2. Crop monitoring and vulnerability assessments in Eswatini (former Swaziland) using UAV and Remote Sensing- CTCN/UNIDO funding
- 3. Drought Risk Impact Platform- Groundwater demand forecasting in Kenya and Ethiopia
- 4. Support UNSPIDER activities in Africa as appropriate

Flood mapping- Kenya



MARSABIT COUNTY



Flood Overview

Kenya Red Cross (KRC) reported the following flooded areas in the 5th November update;

Moyale, Kanisa, Boris Junction, Godoma, Yabello & Watiti.

The impacts of the October Flood included;

- Affected HHs =1,055
- Affected Pop. = 3,198
- Livestock death = 30,647
- Fatalities = I



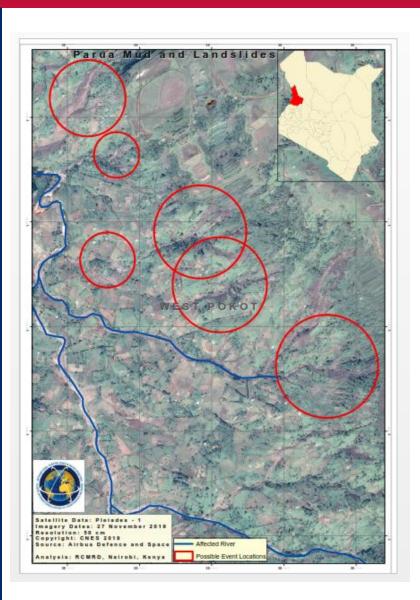
Accompanied by a @KenyaRedCross rep, we were traveling to Bori jct, Kinisa, Yaballo, Watiti & Godoma to asses the havoc caused by floods. We had to land @ Nyeri due to rains.The county team with emergency food supplies is also stuck. We will be with our people as soon as we can.





Landslides mapping- Kenya

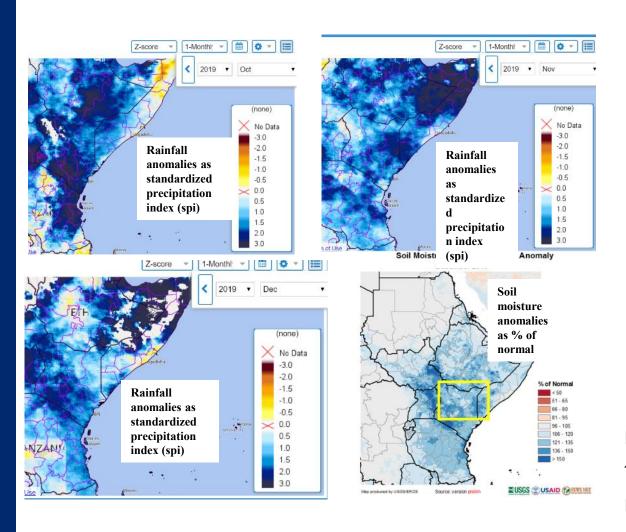




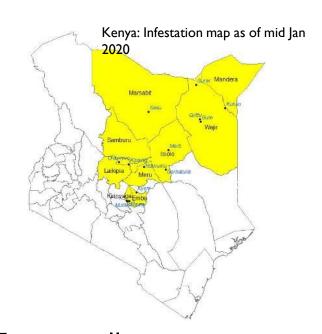
- Charter Activation #633 by Victor Addabor-Ghana
- RCMRD provided VAP services
- Mapping targeted landslides in Pokot county, Kenya

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Desert Locust infestation-Monitoring Ecological conditions

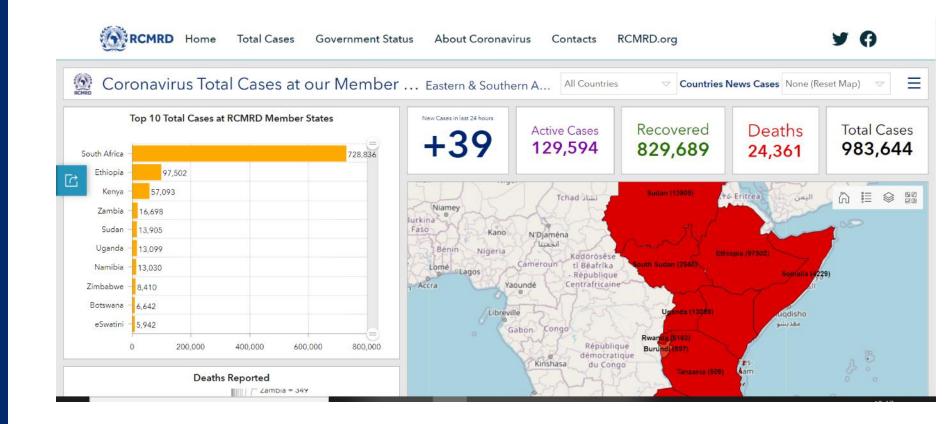


http://data.rcmrd.org/ewx-viewer/

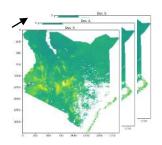


From satellite imagery, RCMRD provided monitoring assistance by tracking rainfall, soil moisture and vegetation conditions as drivers of outbreaks.

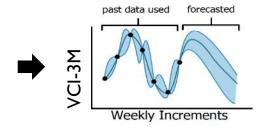
COVID-19 portal for E&SA region



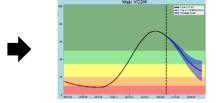
Drought monitoring- VCI based/IR® AFRICATION OF THE PROPERTY O



NDVI/VCI timeseries



Gaussian Processes



12-week forecast

Colour bar to show 3 month average of various VCISH levels vegetation condition within the report shown changing over	time.
Eldas, Waj i County Vigostation Cuttook	Forecast uncertainty. We are 70% certain that
VC 3W transport for 0/19/20/20 VCLIM for Lices VCLIM for Lices	the forecast will fall within this blue region, with the black line
Map with only the	showing the most likely VCISM values
sub-country of focus	
highlighted to	
denote the	
VC13H value	
	Table showing the
200 E3 43 45 36 36 36 36 36 36 36 36 36 40 42	Last known vc13M Value alongside the
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ASTROCAST PAGE INTO THE CONTROL OF PAGE INTO T	Porecosted VCISH
Last observed Forecasted	
VC13M value VC13M values for this date.	
	•

VCI3M in %	Drought Category	Color
≥50	Wet	
35 to 50	No Drought/Normal	
21 to 34	Moderate Drought	
10 to 20	Severe Drought	
<10	Extreme Drought	









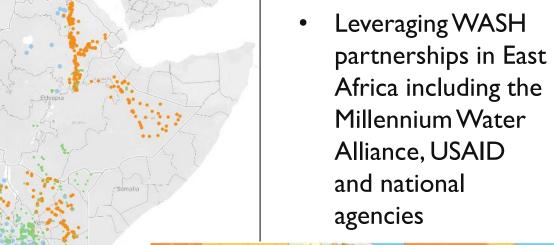


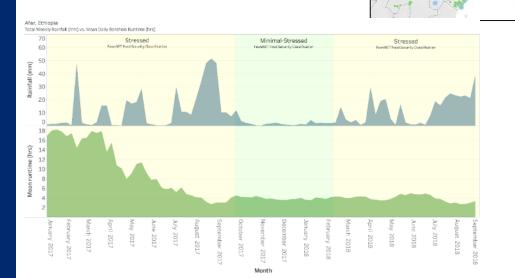


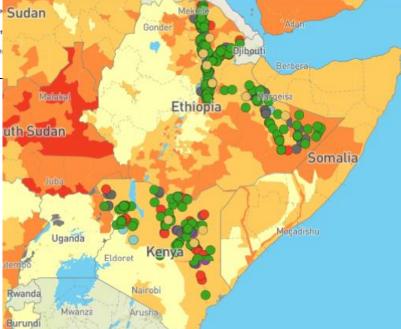
Drought Resilience Impact Platform (DRIP)



 DRIP is monitoring water sources for more than 3M people using a combination of electronic borehole sensors and remote sensing based models

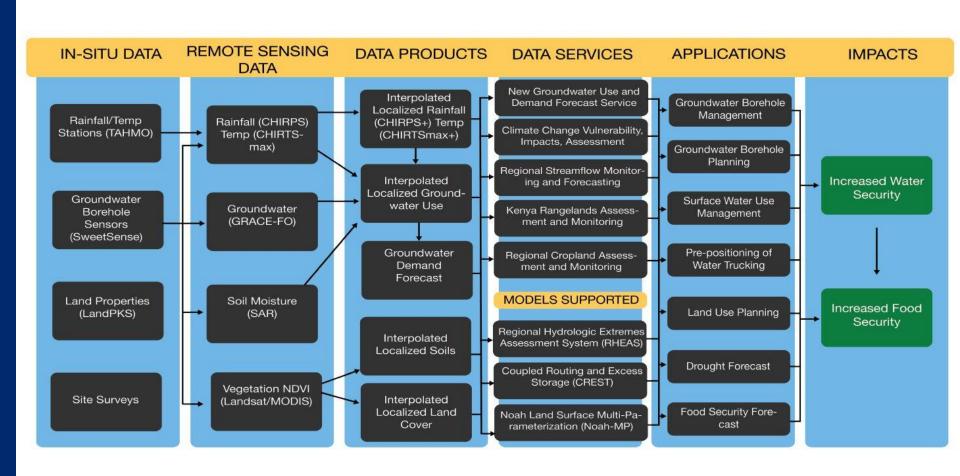






DRIP Workflow







ASANTENI SANA!