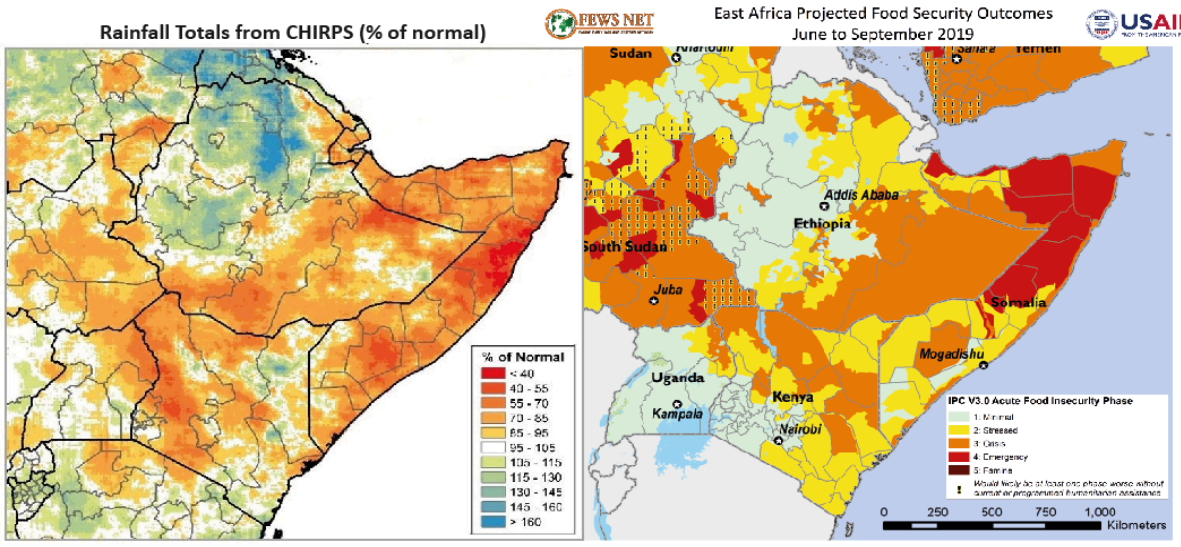
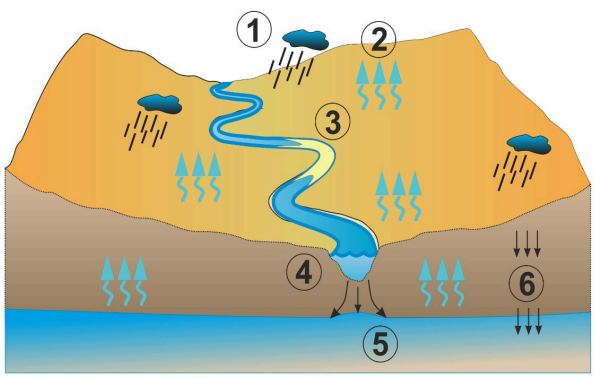
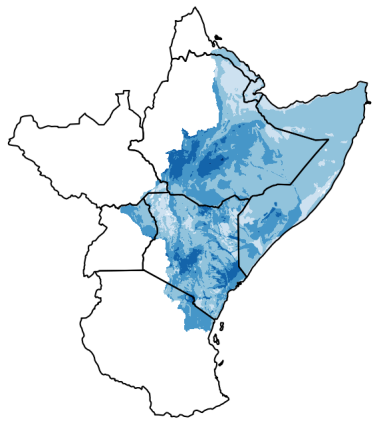
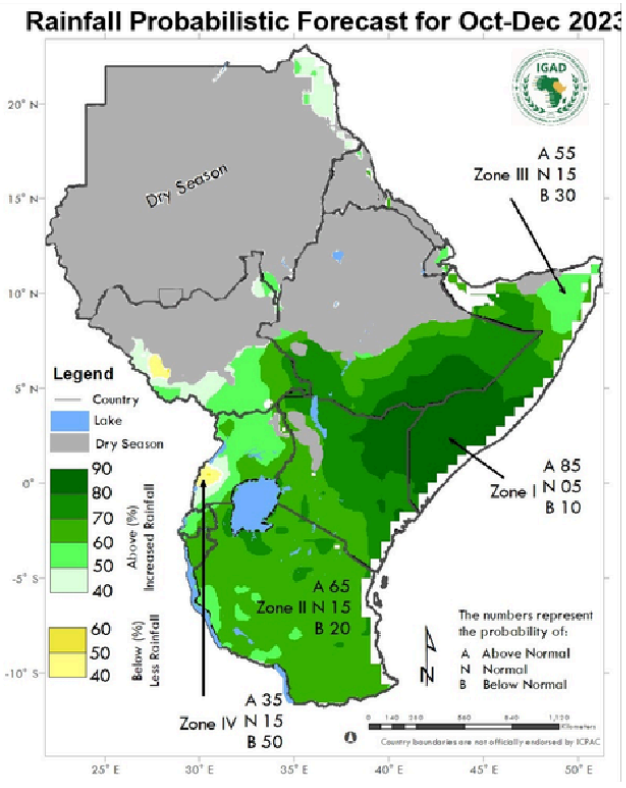


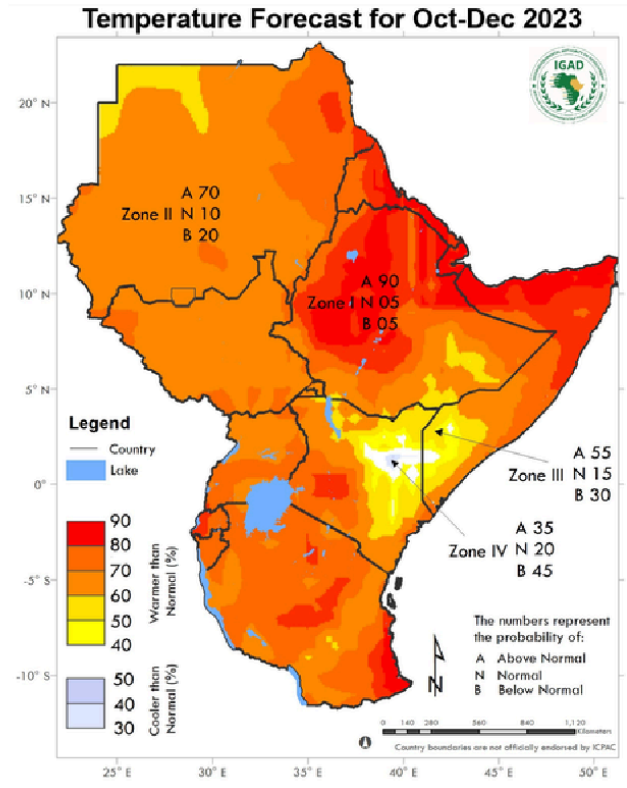
Current forecasting uses rainfall and temperature data, but it may not reflect climatic impacts ‘on the ground’



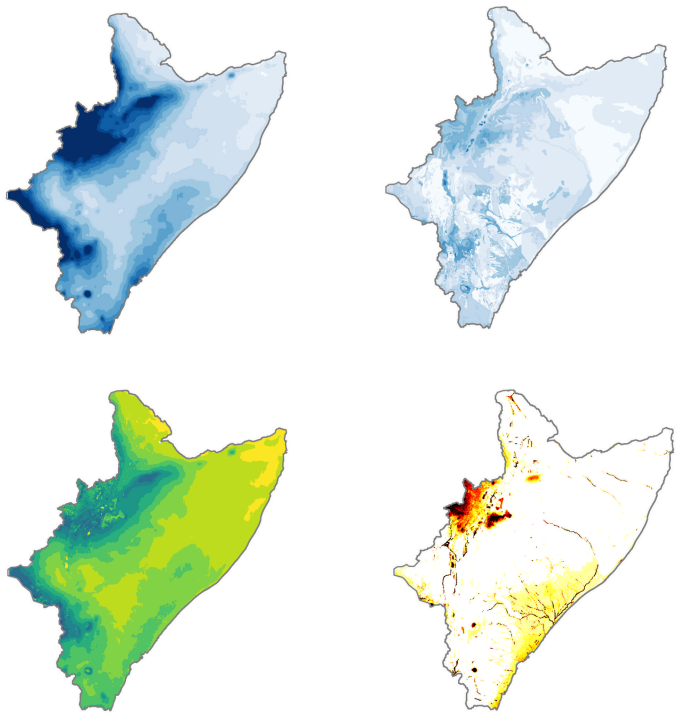


DOWN2EARTH has produced a new regional model for the Horn of Africa drylands that forecasts the impact of climate on water and vegetation. It represents how climate affects water movement and storage across the landscape and below ground

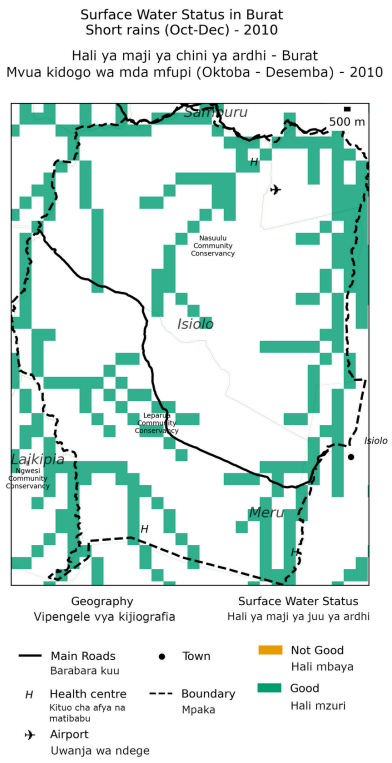


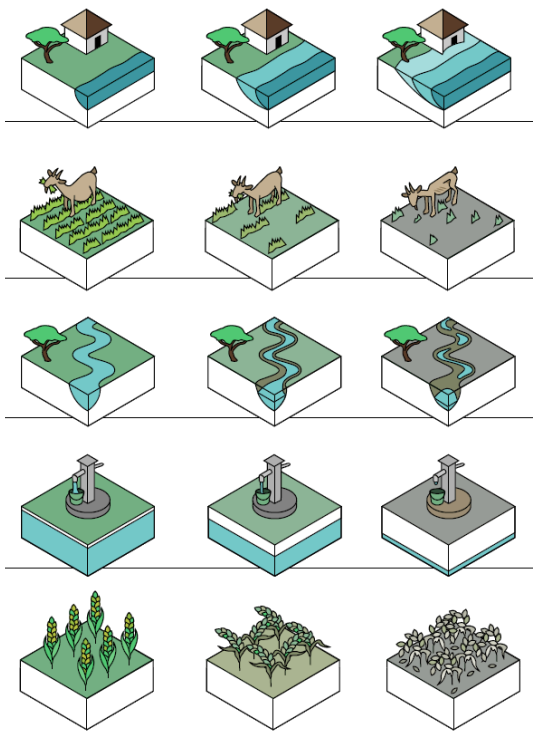


The model, which is set up at ICPAC, is driven by realistic rainstorms and temperature based on a seasonal climate forecast generated at ICPAC



The new impact-based forecasts we are generating for Ethiopia, Somalia and Kenya contain different types of relevant information that may support decision making in rural communities



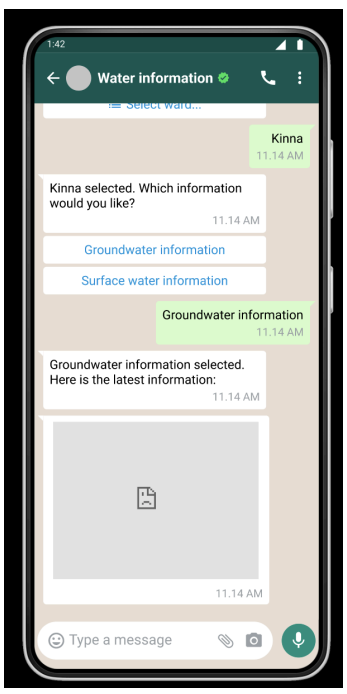


Hali yaMaji yaChiniyaArdhi *Sio*

*Nzuri:*Mvuakatikamsimuujao waMachi-Aprili-Mei unatarajiwa kuwawakiwangocha chini kuliko kawaida

And the information can be presented in different ways to support people in different types of decisions. We are providing: maps, glyphs, voice notes, and text

We are learning from many people including rural communities about how this information may support seasonal decision making on where to move livestock, where to find water, and which seeds to plant.



We are working to create a chatbot app for mobile phones using Telegram or WhatsApp that allows users to get the specific information on the forecast they want in the form they need it

We hope this new impact-based information from the DOWN2EARTH modeling will support decision making in rural comminities related to flood hazards, crop health, pasture/browse quality, groundwater status, and surface water status.

DOWN 2 EARTH

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