

Water, Peace & Security

Understand ~ Mobilize ~ Learn ~ Facilitate ~ Act!

Pillar 1-A: Early
Warning Hotspot Map

Liz Saccoccia
World Resources
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Water, Peace & Security: Understand



Cape Town faces what happens when taps?



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The Washington Post
Democracy Dies in Darkness

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NEWS / CONFLICT

Mali: Hundreds killed in intercommunal violence this year

Most of the civilian deaths occurred in the country's central region of Mopti, according to the UN human rights office.

17 Jul 2018



MINUSMA, the UN mission in Mali, said there is an escalation of communal violence in the West African country [Reuters]

At least 289 civilians have been killed in

MORE ON MALI

NATIONAL FOLK FESTIVAL
SEPT 7-9, 2018 FREE FESTIVAL

Protest erupts in southern Iraq as demands for water, electricity



Protesters burn tires during a demonstration Friday night in Basra.

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BETA
RESOURCEWATCH

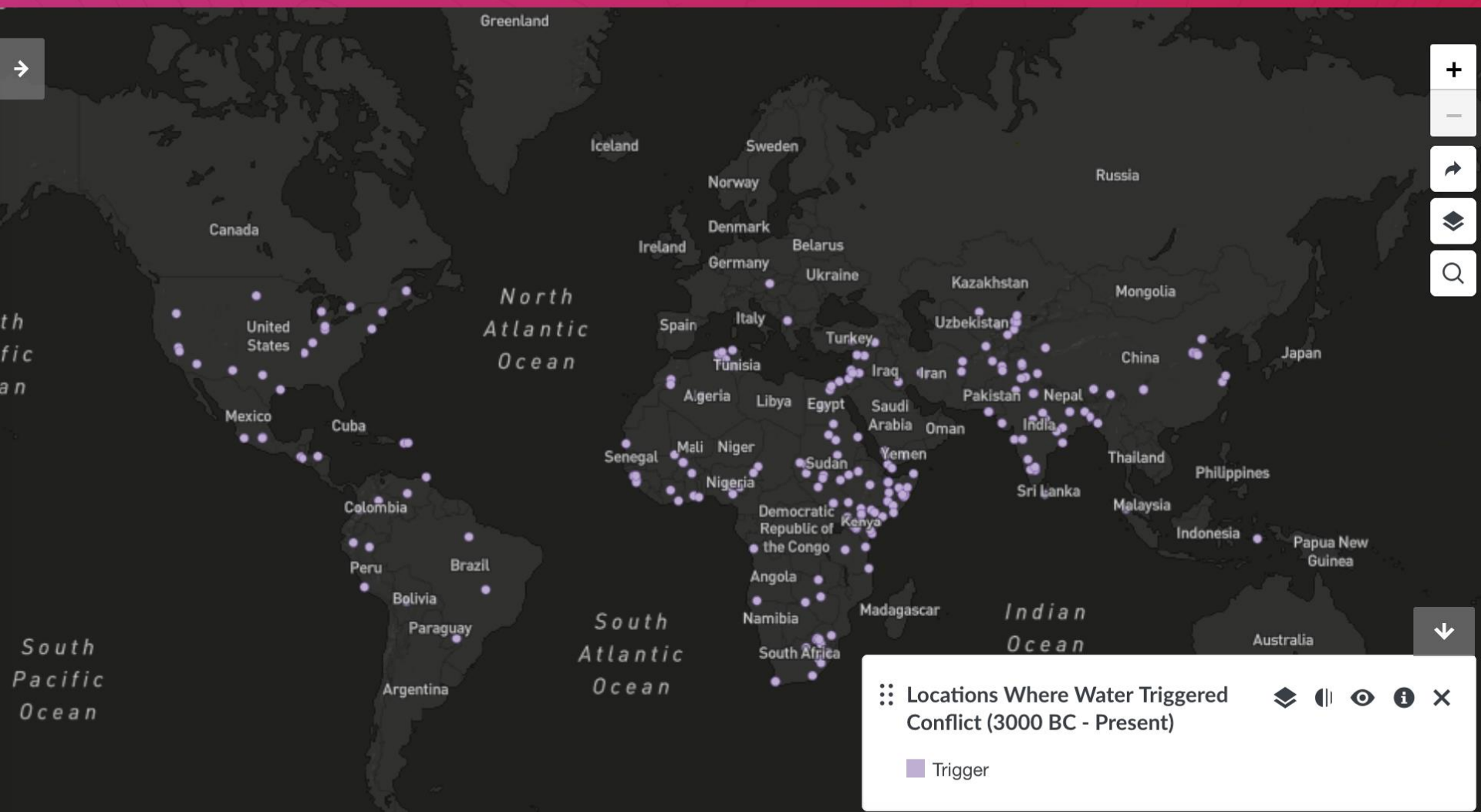
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☰ Locations Where Water Triggered Conflict (3000 BC - Present)     

■ Trigger

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Locations Where Water Trig 


Date: 1980s-1990s

Headline: Military encounters between Cameroon and Niger over the recession of Lake Chad

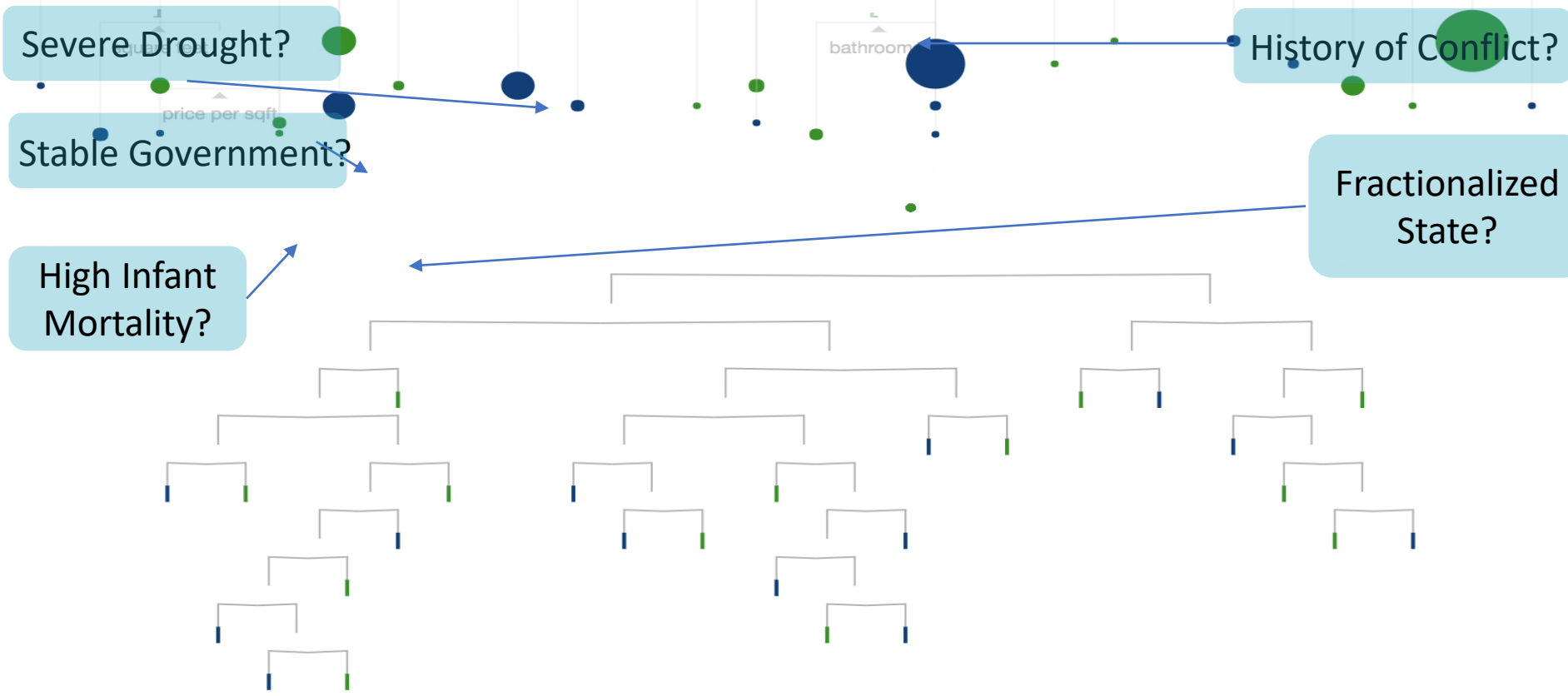
Conflict Type: Trigger

Description: Starting in the 1980s, rapid recession of Lake Chad draws Nigerian fishermen farther into? Cameroonian territory, leading to

 **Locations Where Water Triggered Conflict (3000 BC - Present)**     

 Trigger

Leveraging Cutting Edge Technology Machine Learning



Water Related Conflict/Protest

No Water Related Conflict/Protest



Leveraging Cutting Edge Technology
Remote Sensing

2015/06/18
Al Massira Dam, Morocco: 2015-2018



Leveraging Cutting Edge Technology Real-time Data



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LAND

WATER

AIR QUALITY

CLIMATE

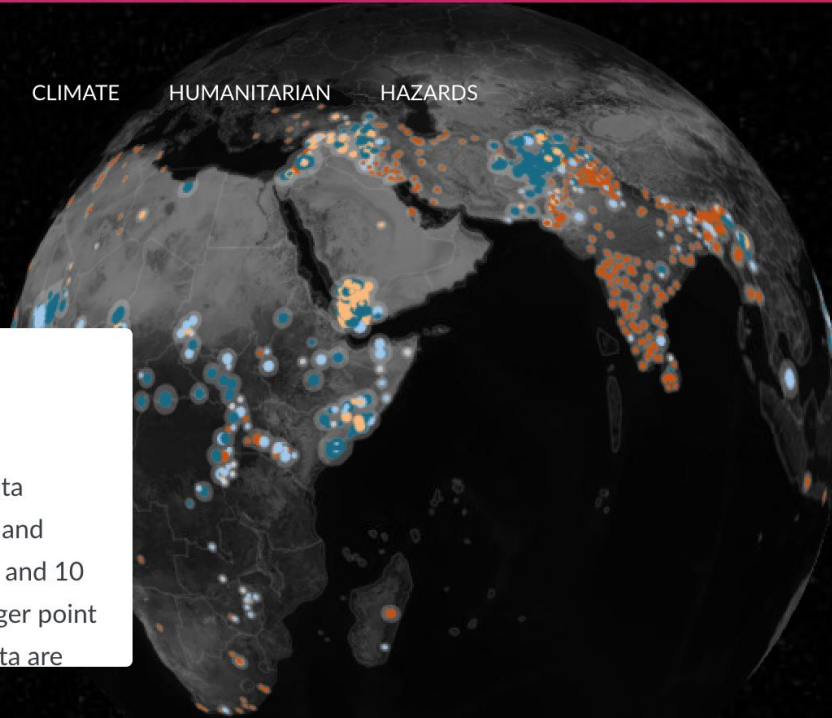
HUMANITARIAN

HAZARDS

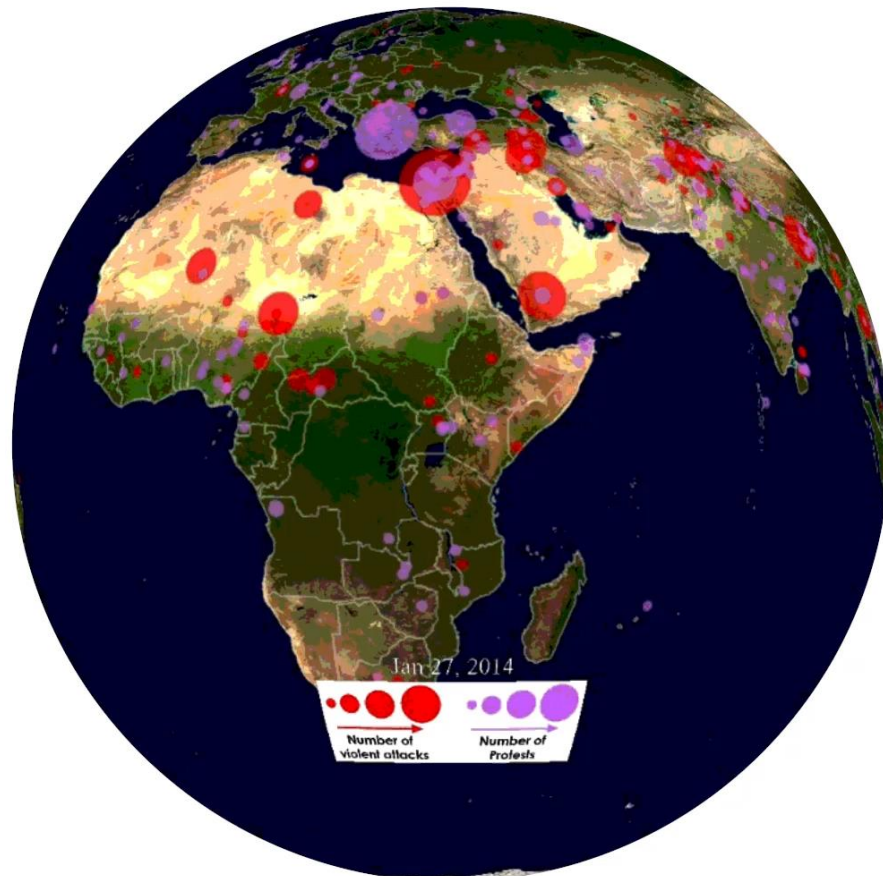
Conflicts and protests

ACLED

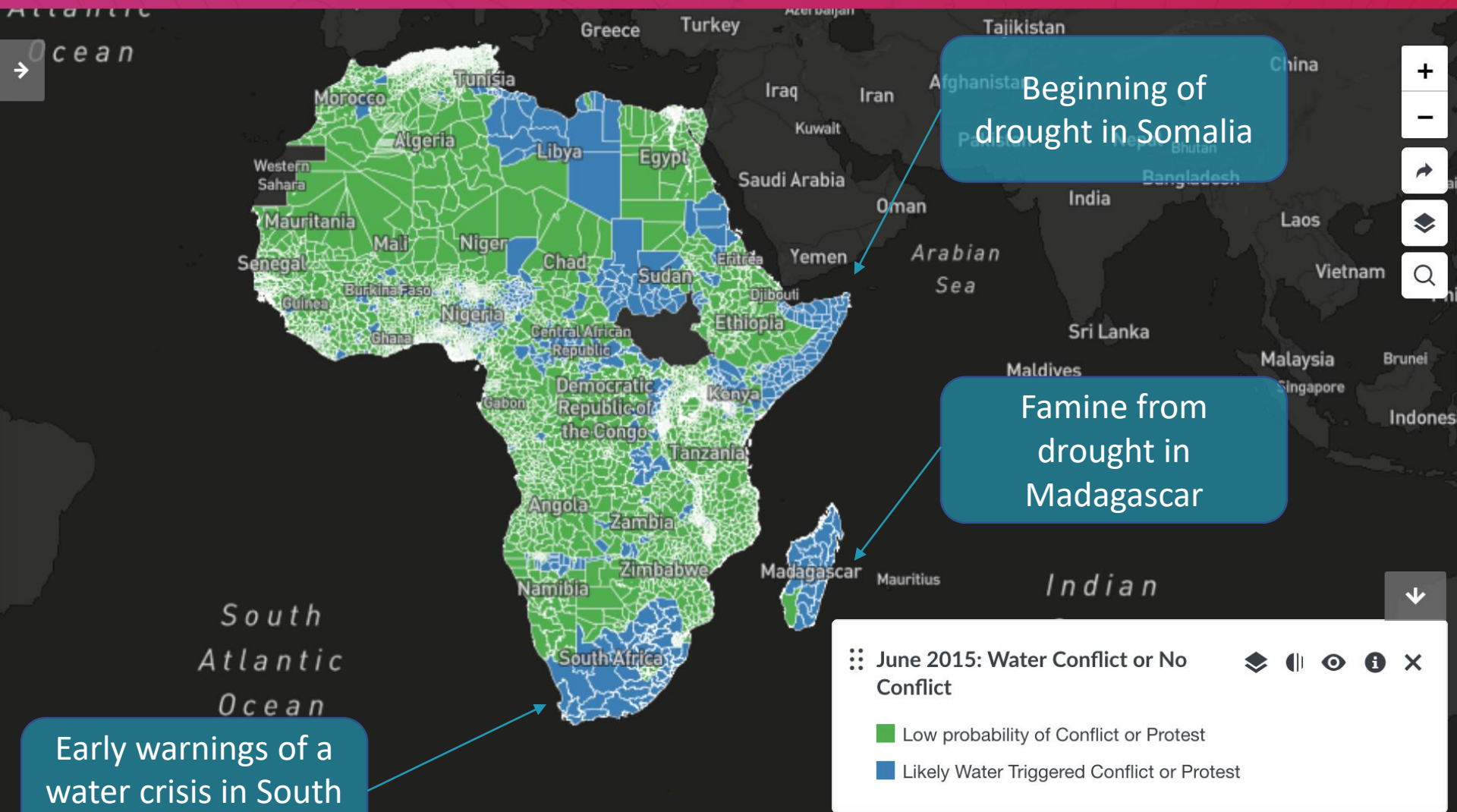
The Armed Conflict Location and Event Data Project (ACLED) gathers and reports dates and locations of violence and protests in Africa and 10 countries in South and Southeast Asia. Larger point sizes indicate events with fatalities. The data are



Leveraging Cutting Edge Technology Real-time Data



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Beginning of drought in Somalia

Famine from drought in Madagascar

Early warnings of a water crisis in South Africa

Water

reliefweb

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Somalia: Drought - 2015-2018

Ongoing

Overview

The 2015-2016 El Niño phenomenon had a severe impact on vulnerable people in Somalia - it worsened an already widespread drought in Puntland and Somaliland with a devastating impact on communities and their livelihoods, increasing food insecurity, cash shortages and resulting in out-migration and death of livestock. Those affects are now emerging in other

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Devastating Drought Has 200,000 People in Madagascar on the Brink of Starvation



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South Africa grapples with worst drought in 30 years

© 30 November 2015



June 2015: Water Conflict or No Conflict



Low probability of Conflict or Protest

Likely Water Triggered Conflict or Protest