



## Climate, water and security risks

## Protecting fresh water at SIDS

**Karen Meijer, Ruben Dahm & Gualbert Oude Essink**

*Deltares, The Netherlands*

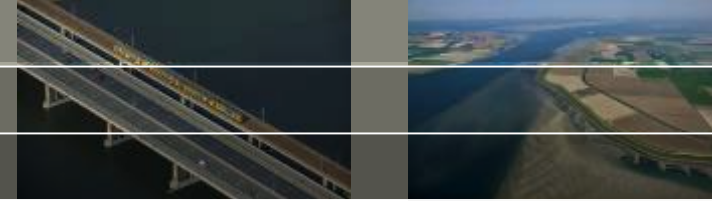
*Utrecht University, The Netherlands*

2017 04 20

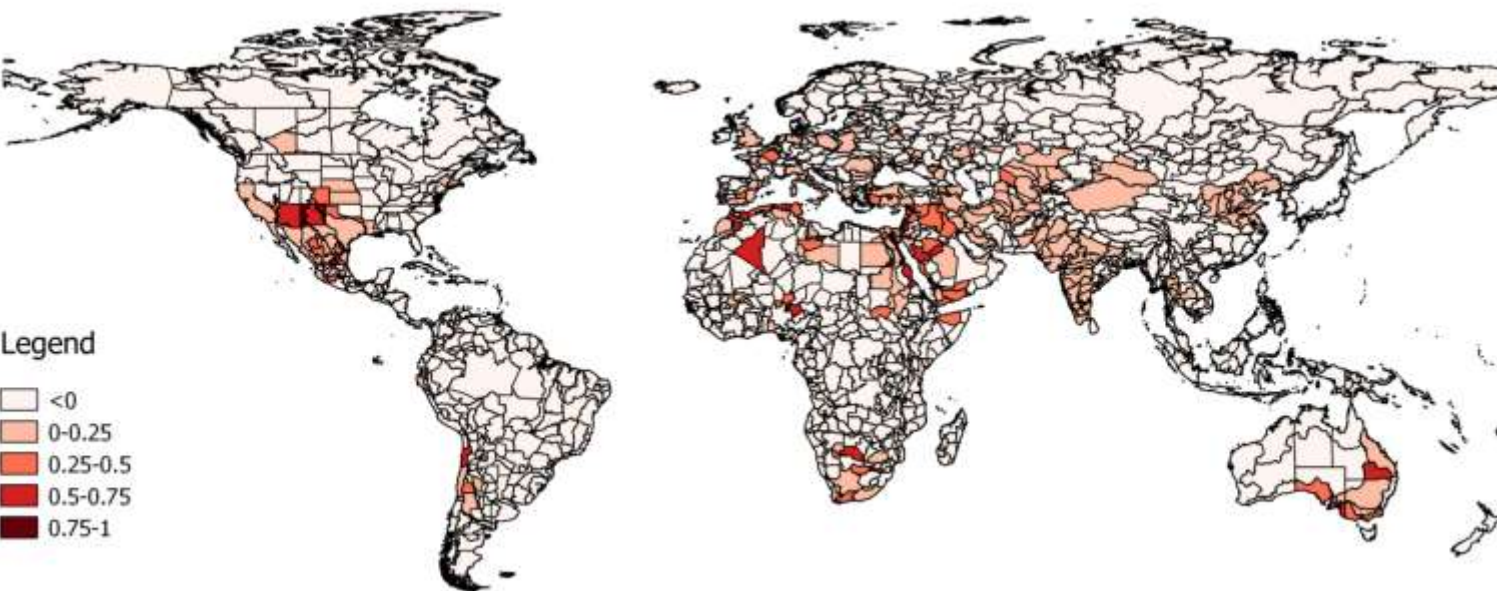
*[freshsalt.deltares.nl](http://freshsalt.deltares.nl)*



# Deltares contribution

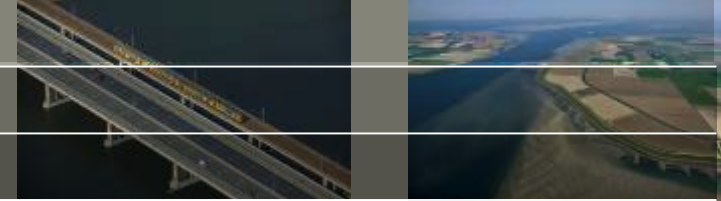


- Quantitative information on current and future water availability

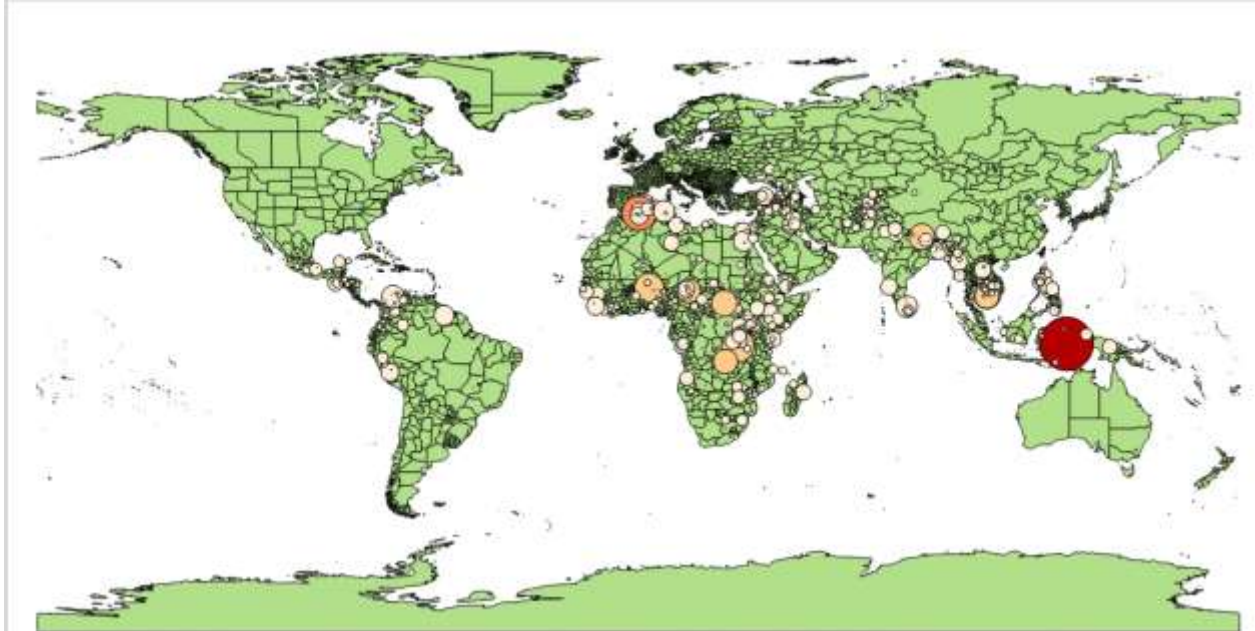


Water scarcity increase in 2050s compared to now

# Deltares contribution



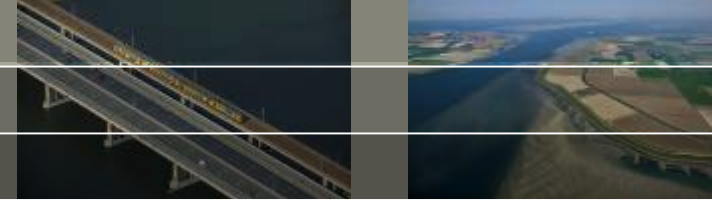
- Quantitative information on current and future water availability
- Connect information with societally relevant issues



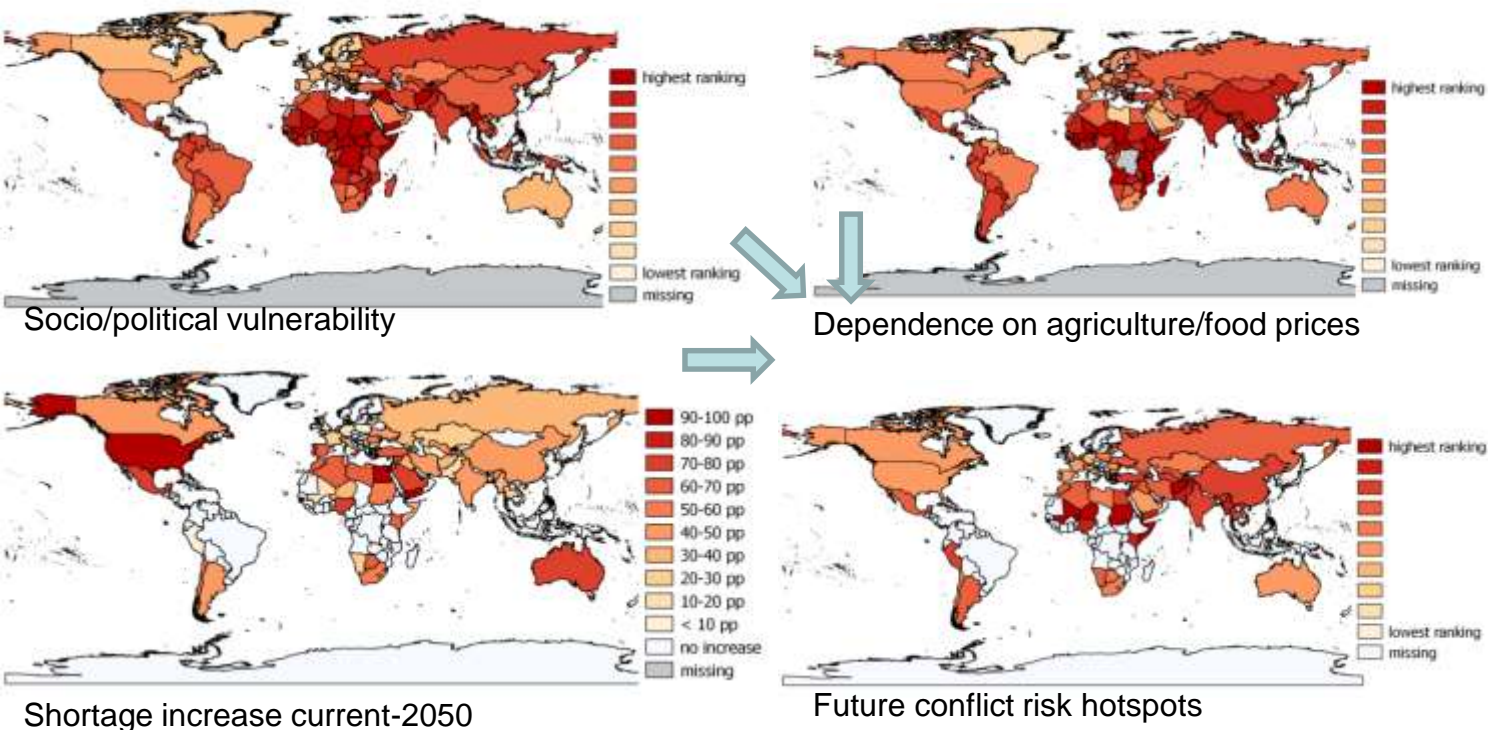
No of conflict events  
at Admin1 level  
(UCDP) – scaled

**Deltares**

# Deltares contribution



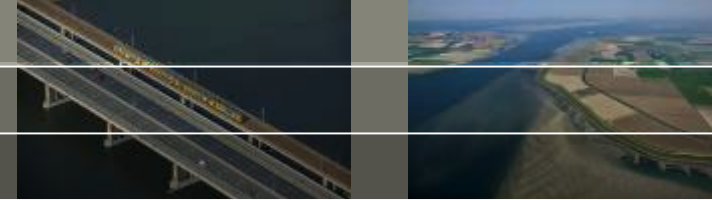
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Initial hotspot mapping  
With Clingendael

**Deltares**

# Deltares contribution



- Quantitative information on current and future water availability
- Connect information with societally relevant issues

**PNAS**

## Climate change in the Fertile Crescent and implications of the recent Syrian drought

Colin P. Kelley<sup>a,1</sup>, Shahrzad

<sup>a</sup>University of California, Santa Barbara Earth Observatory, Columbia Univer

Edited by Brian John Hoskins, Imper

Before the Syrian uprising that Crescent experienced the most

**ANALYSIS**

# DON'T BLAME THE DROUGHT!

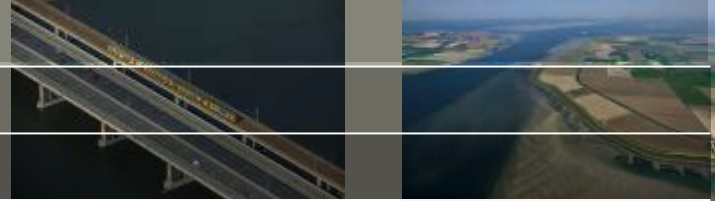
TEXT | ANDERS JÄGERSKOG PHOTO | ISTOCK

**THAT THERE HAS BEEN A DROUGHT IN SYRIA IS A FACT. BUT THAT DROUGHT CAUSED THE CONFLICT IS NOT. WE MUST AVOID OVERSIMPLIFICATIONS AND DIG DEEPER TO PROPERLY UNDERSTAND THE ROOT CAUSES, WRITES ANDERS JÄGERSKOG.**

for food production. The Arab Fund for Environment and Development (AFED) has noted that most of the agricultural systems in the region are rainfed and therefore any changes (or variations) in rain are bound to affect the agricultural output.

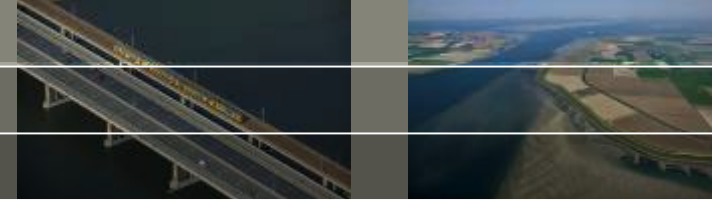
In the years preceding the Syrian uprising and civil war the region suffered a prolonged drought, which led to migration from the rural areas to

# Deltares contribution



- Quantitative information on current and future water availability
- Connect information with societally relevant issues
- Aim: timely identification of risks and policy actions and test their effectiveness

# Deltares contribution



- Quantitative information on current and future water availability
- Connect information with societally relevant issues
- Aim: timely identification of risks and policy actions and test their effectiveness
- Development of innovative solutions

