

# Introduction

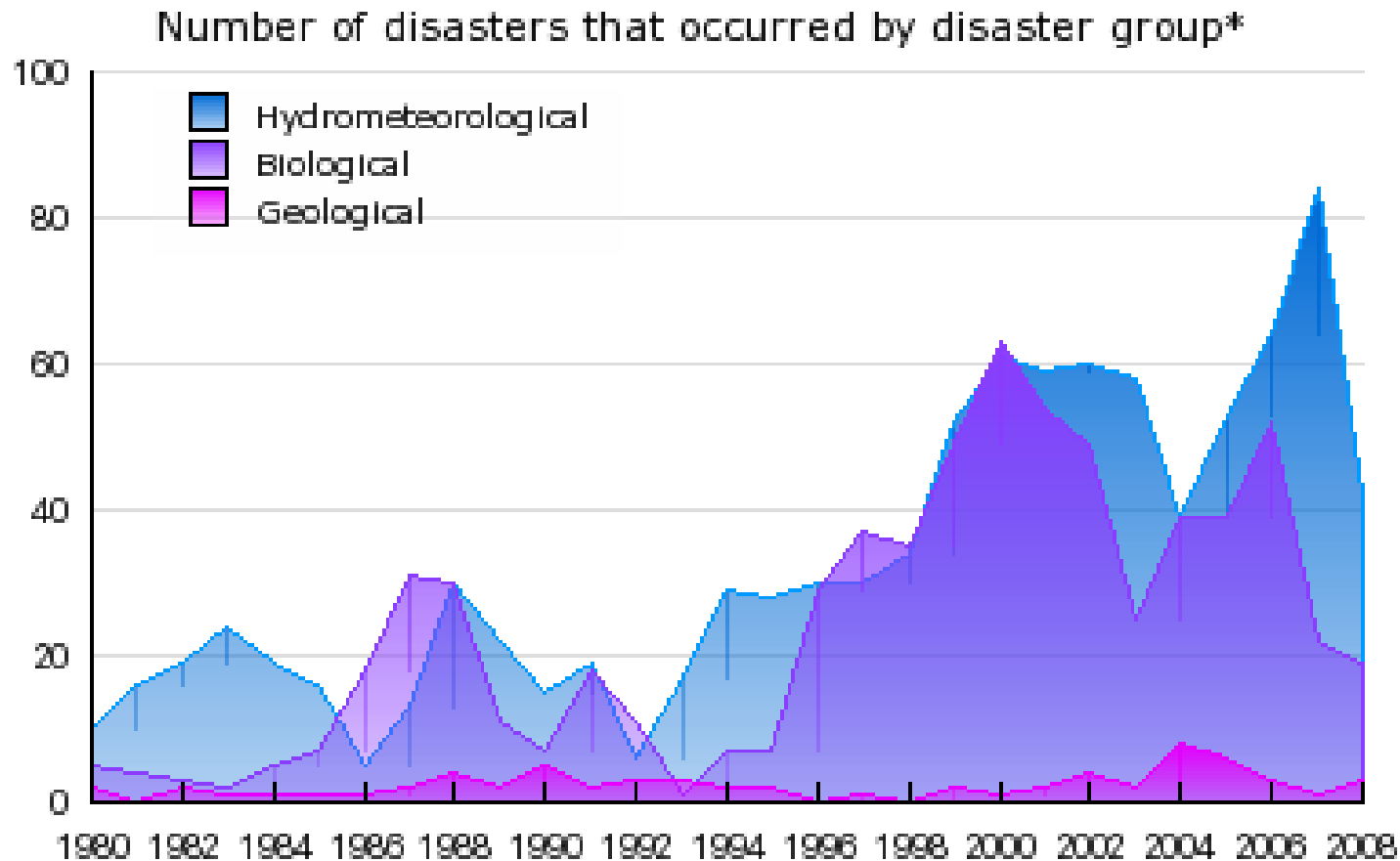
2012-11-28

**WMO Entebbe Uganda**  
**19-24 November 2012 Paul Davies, UKMO**

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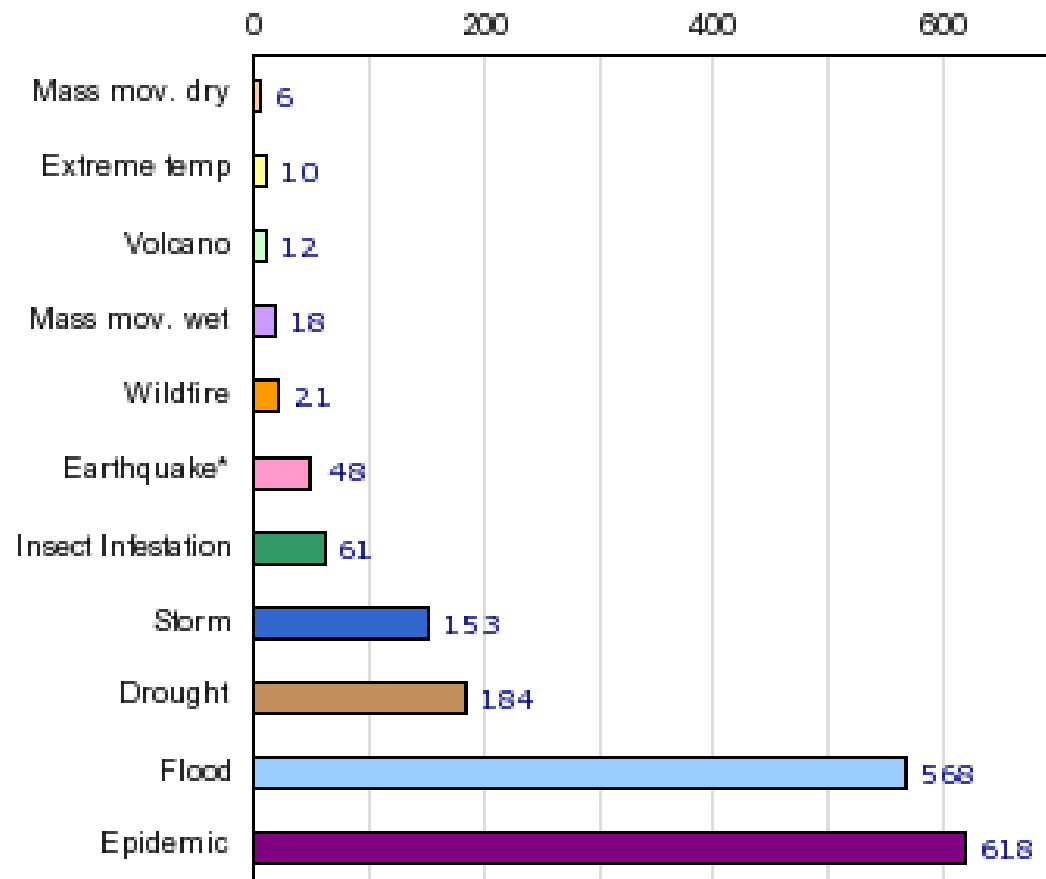
# Impacts 1988-2008

Water cycle is increasingly under stress...



# Impacts 1988-2008

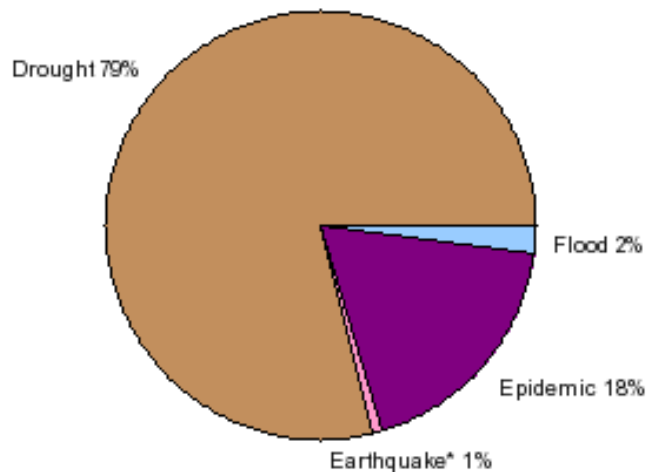
Flood has the largest natural impact on the ground . . .



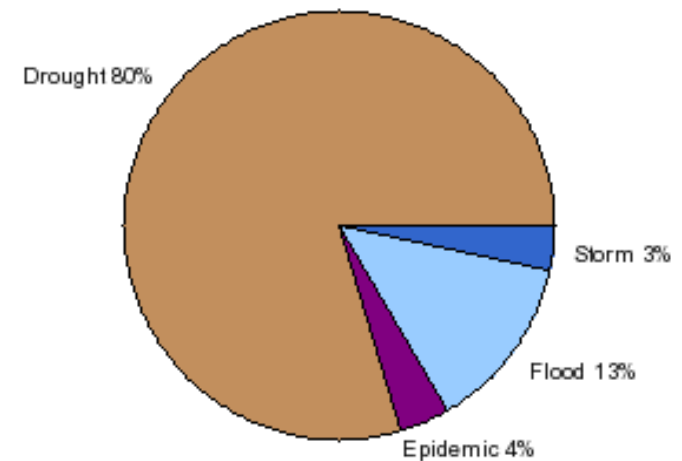
# Impacts 1988-2008

Drought and flood is the biggest killer and affects the most

Percentage of reported people killed by disaster type



Percentage of reported people affected by disaster type





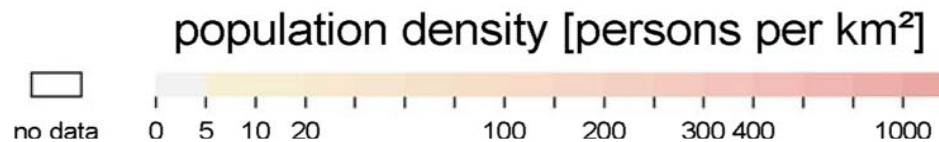
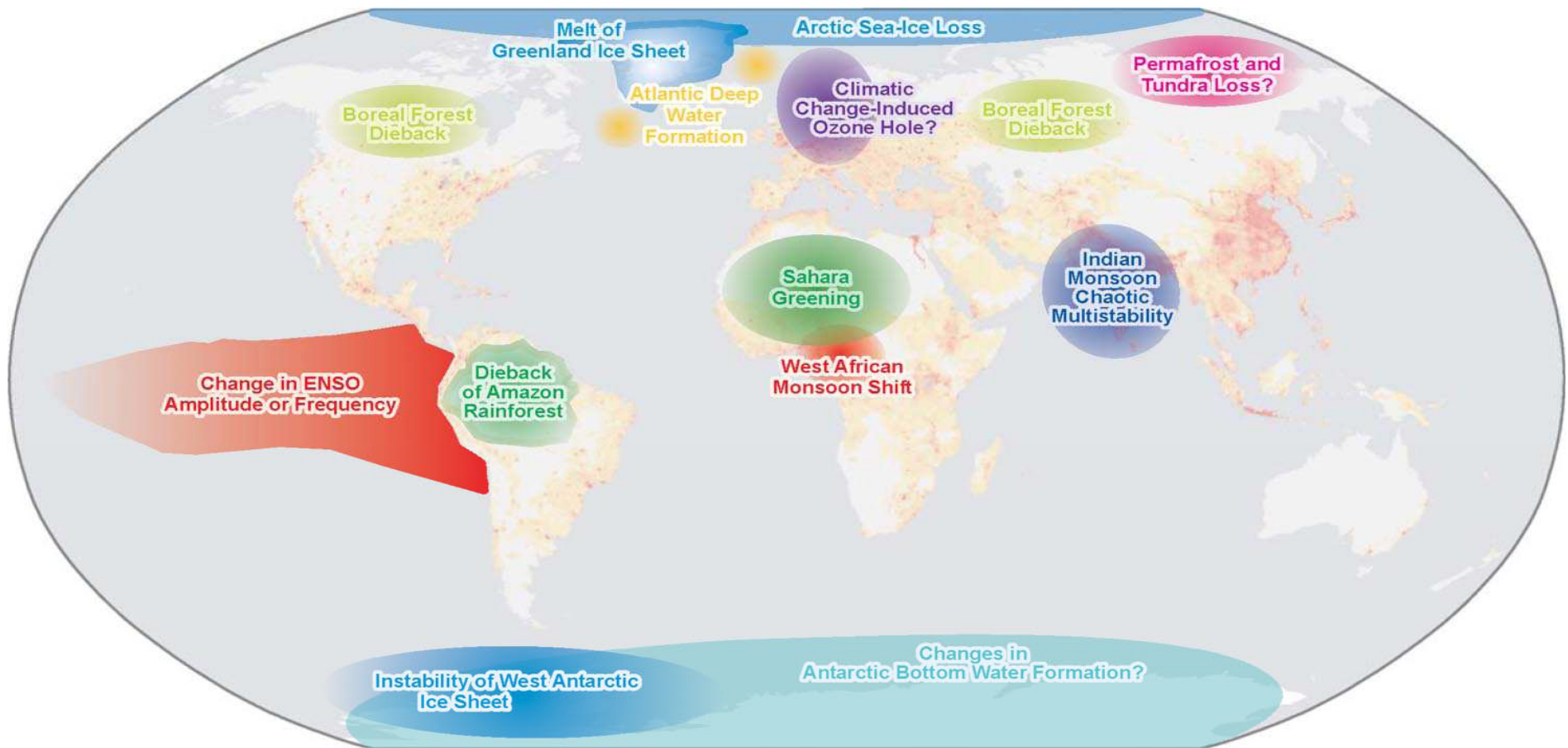


# Changing requirements

- Urban
- Climate change
- Renewable Energy
- Computing
- Communication
- Sustainability
- Mobility
- Focus on impacts

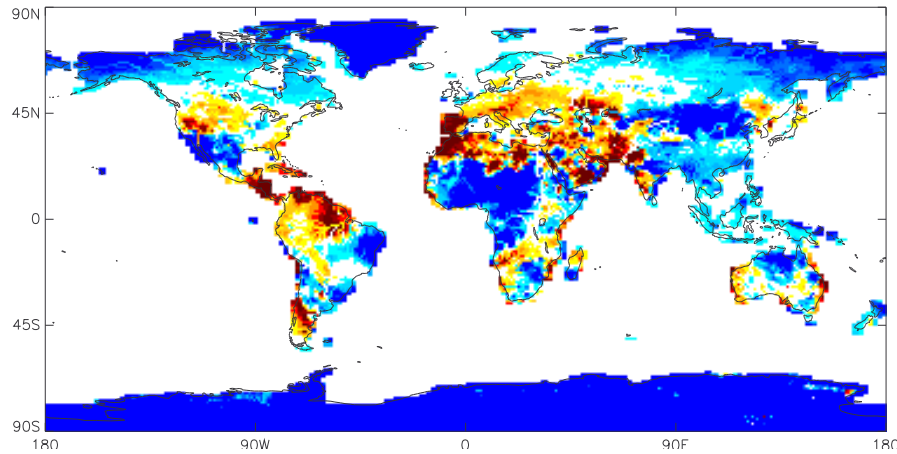


Tipping points?  
Abrupt or irreversible damage  
More likely – committed or irreversible

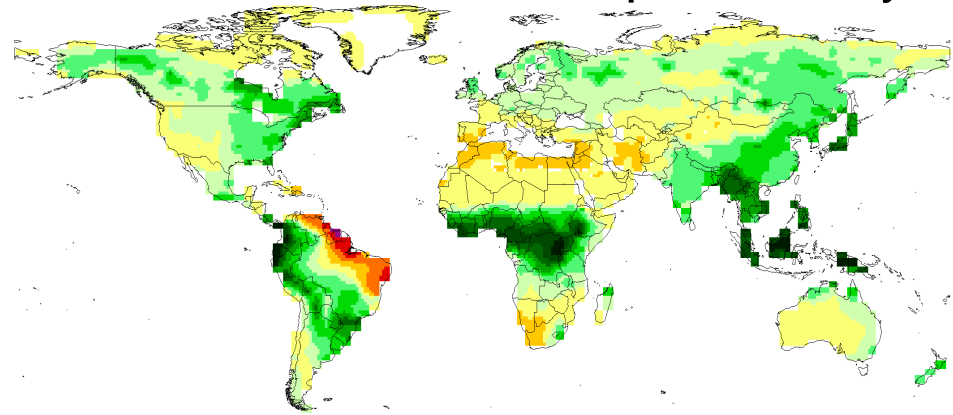


# Climate change impacts

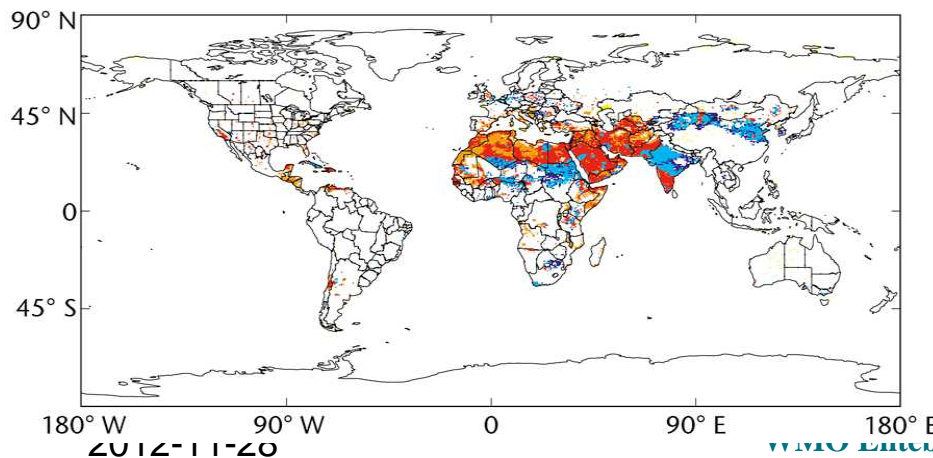
## River flow



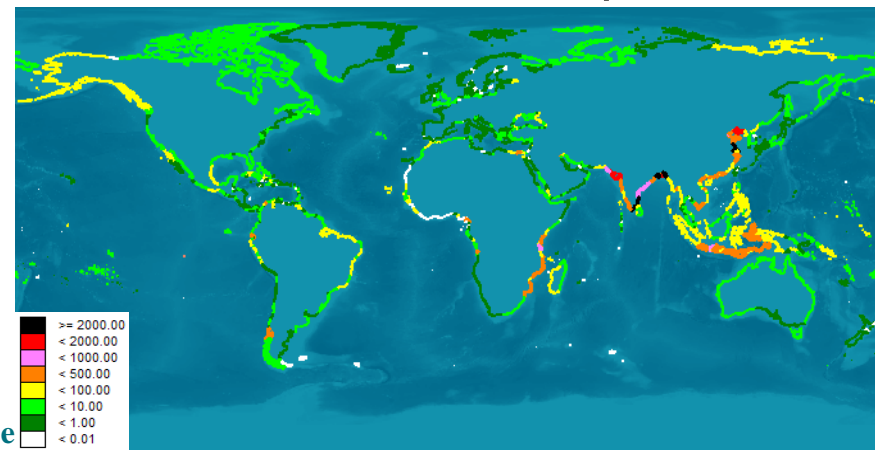
## Plant productivity



## Water stress



## People flooded



# Questions