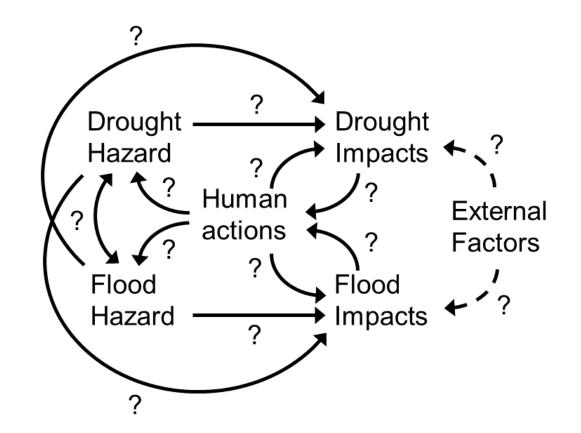


IVM Institute for Environmental Studies







Drought-to-flood events

- Not so much known about interactions between drought and flood risk
- Within the PerfectSTORM project we aim to learn more about the dynamics and impacts of droughtto-flood events
- I am particularly interested in modelling the interactions between humans, floods and droughts

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"Now that the state is finally seeing some significant rainfall in December, those wildfires created conditions conducive to flooding and mudslides."

The Guardian, 8 December 2014

"The potential for devastating floods is something California's water managers will have to account for as the **state's** reservoirs juggle the contradictory jobs of flood protection and water."

The Verge, 27 February 2019

"'... we were able to absorb a lot of the rainfall that came early in the spring season because the soil was so dry.''

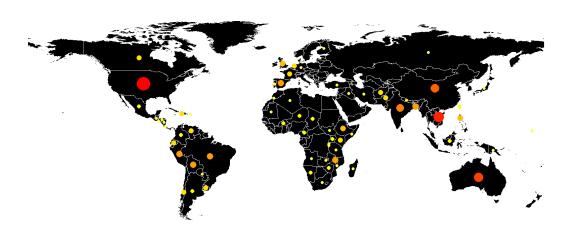
Radio Iowa, 13 October 2014





A literature and case study review

- We did a literature and case study review, the results of which have been presented by Anne van Loon on Monday in session NH10.2, presentation EGU22-1818
- The literature review provides an overview of the influence of drought hazard, impacts and actions on flood hazard and impacts.
- The case review analyses the types and occurrence of drought and flood hazard, impacts and actions in 196 cases across the world.

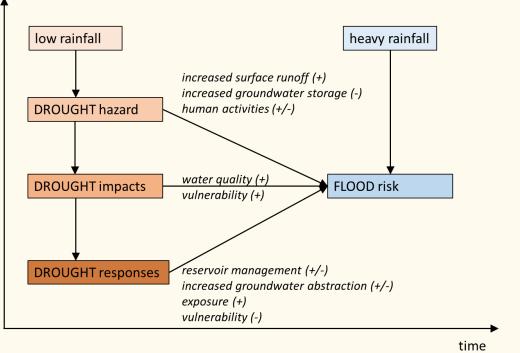




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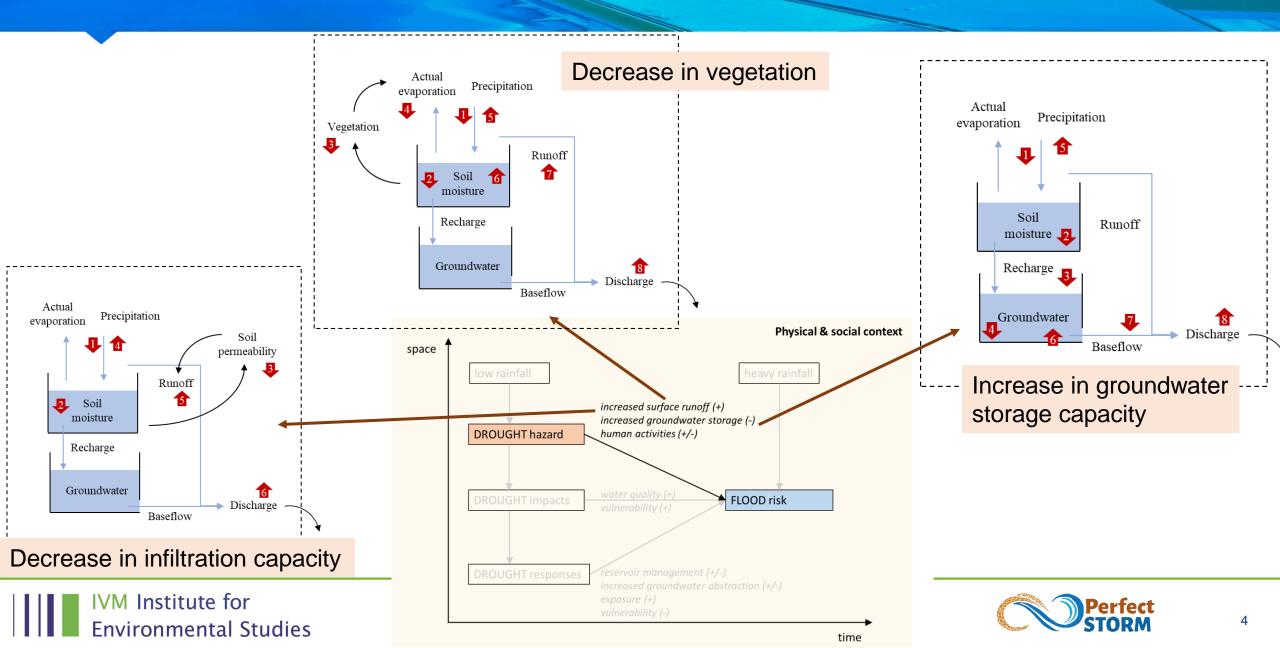


Physical & social context

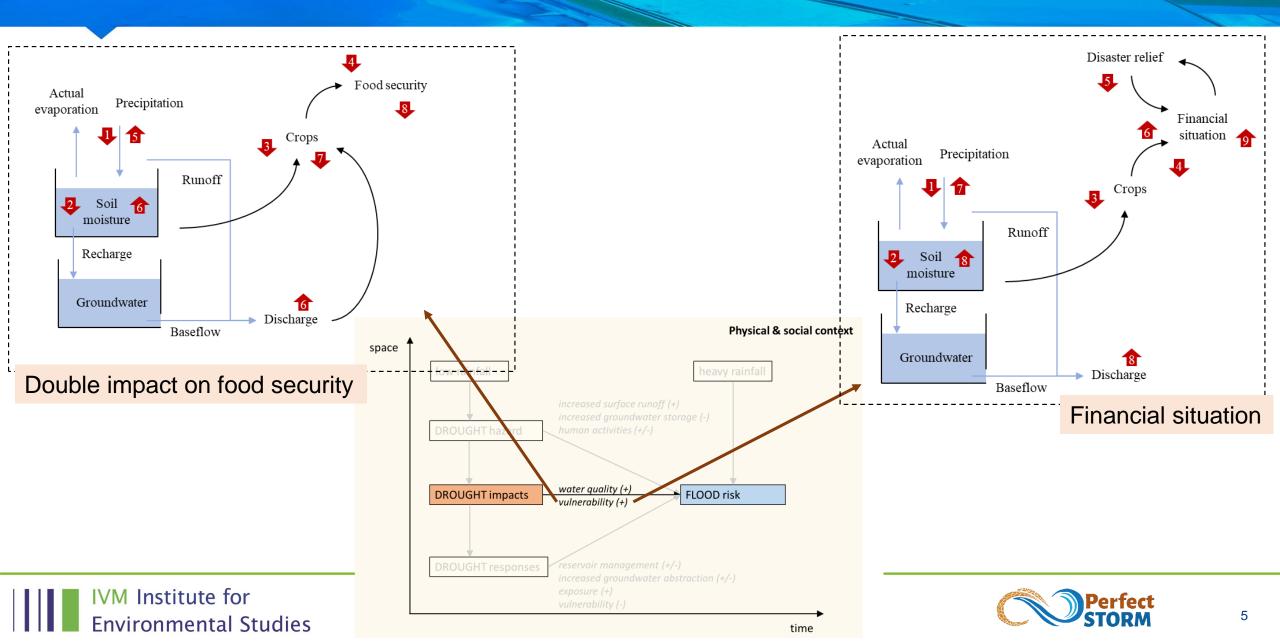




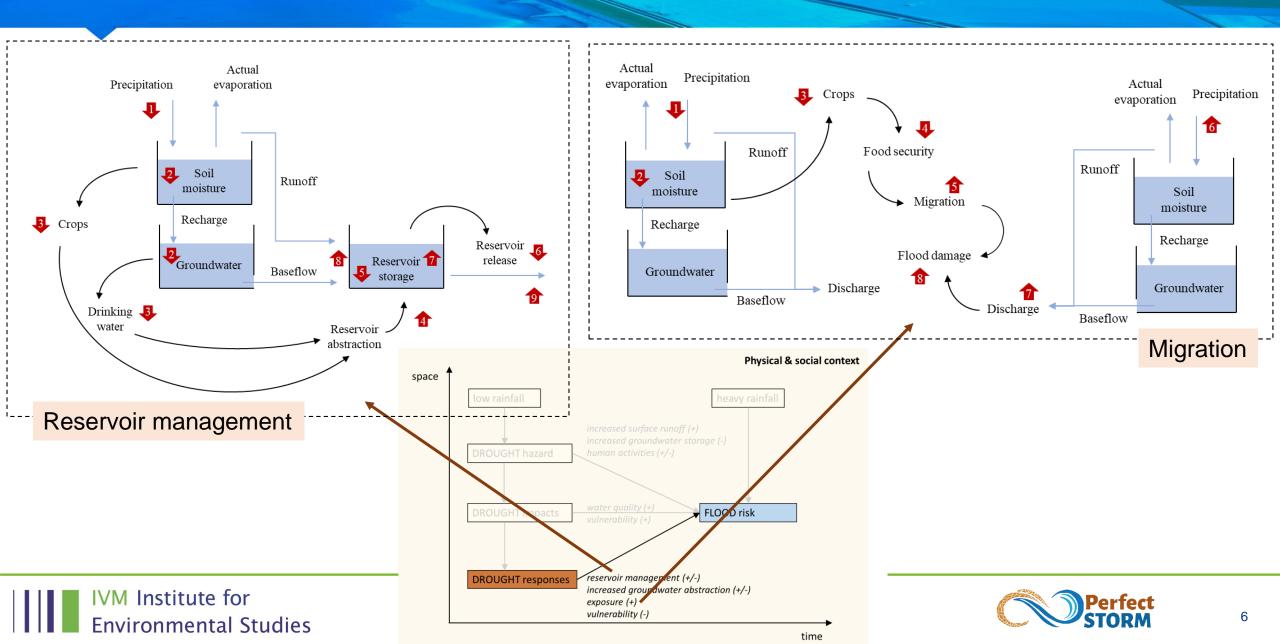
What are the implications for modelling drought-to-flood events?



What are the implications for modelling drought-to-flood events?



What are the implications for modelling drought-to-flood events?



Conclusions

- Is there one model that fits all? Probably not, but we do have some ideas about the interactions that need to go into the model.
- We are at the start of the project and now have some hypotheses about drought-toflood interactions
- Interested? Follow updates about our work:
 - On our website: https://perfect-storm.org
 - On twitter: @PerfectSTORM_VU



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