

# Theme 5: Adapting to Changing Catchments

## Future Treatability and Quality of Drinking Water

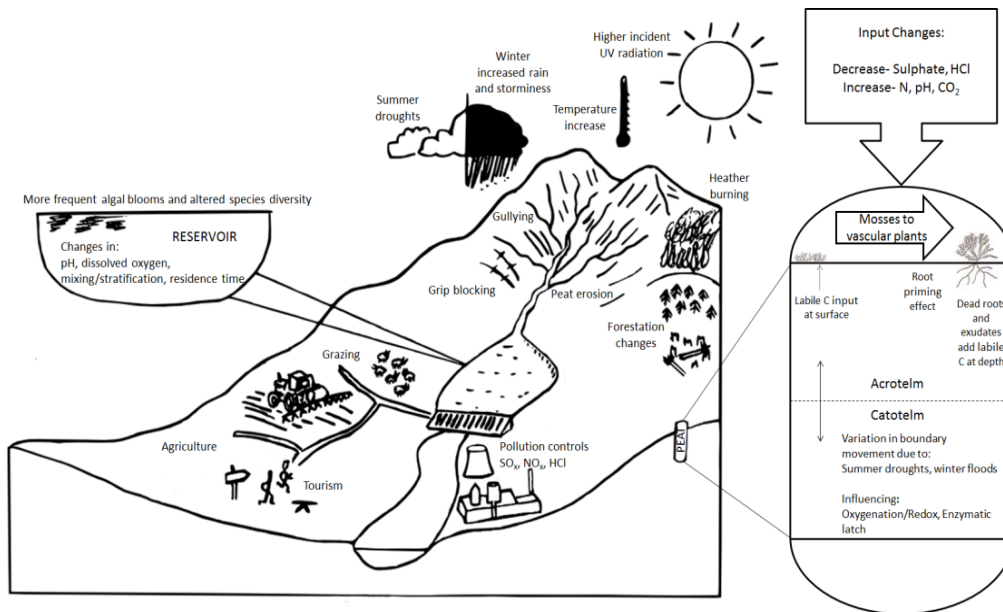


**Nigel Graham, Mike Templeton and Jonny Ritson** (Imperial College London)  
**Joanna Clark** (Reading University), **Richard Brazier** (University of Exeter)

# Adapting to changing catchments will...



- Characterise 'treatability' of different source waters (natural (**peatland and non-peatland**), agricultural and urban systems)
- Develop functional relationships to explain how 'treatability' varies with catchment type, scale and time, hydrology, etc.



➔ *Develop models to predict 'treatability' in real-time using continuous monitoring sensors*

➔ *Predict quality and treatability in the long term (climate change)*

➔ *Main focus on natural and anthropogenic organic substances*

# Review of water company information & experience

## *Share companies knowledge and interest concerning:*

- dissolved organic carbon / colour
- different sources of DOC
- monitoring and modelling DOC in catchments
- assessments of DOC treatability
- management in the catchment and treatment implications
- other aspects?

# Catchment Management of Water Colour & its Treatment: Sharing UK Water Industry Knowledge

## Workshop Programme

13:00 Introduction – Professor Nigel Graham

13:05 Dr Zoe Frogbrook (Scottish Water)

13:35 Dr David Smith (South West Water)

14:05 Jenny Banks (Yorkshire Water)

**14:30 – 15:00 Coffee/Tea Break**

15:00 Rob Cooper (Northumbrian Water)

15:30 Sarah Ross (Penny Anderson Associates / United Utilities)

16:00 Panel Discussion (Dr Jo Clark - Chair)

**16:30 Close**