



The future of drought monitoring and early warning systems in the UK

Key Questions: Session 1

New developments in monitoring and early warning: potential for decision making

From your 'sectoral' perspective and reflecting on the types of information presented, e.g.:

- ◆ Accessible, higher resolution monitoring (e.g. 1km² rainfall grids)
- ◆ Integrated, dynamic data exploration (e.g. layering rainfall, river flows, groundwater levels) through data portals
- ◆ New variables/products (e.g. Earth Observation, COSMOS)
- ◆ Seasonal forecasting outputs

Questions for your sectoral group to consider:

1. What types of decisions could this information support?

- ◆ By whom, how and when?
- ◆ What could you do differently given the information presented?

2. How should this information be visualised?

3. How much confidence do you need from a seasonal forecast?

- ◆ Is a regional scale forecast (i.e. <10 regions in the UK) be useful?
- ◆ What is the degree of confidence needed? Would you like information presented even if limited confidence?
- ◆ What lead-time forecast would be useful, knowing confidence decreases with lead time?

4. Are we missing something? e.g.:

- ◆ If the information and / or the design of the portals is not helpful, why not?
- ◆ What other key hydrological/meteorological information are we missing?



Key Questions: Session 2

The future: from indicators to impacts, from large scale to local

2a

1. What impacts are you most concerned with monitoring and forecasting during drought (from onset through to recovery) – and why are these of the most concern?
2. What hydrological/meteorological/other indicators do you think best link to these impacts?

2b

3. How could UK future monitoring and forecasting systems better incorporate and represent impacts in your sector?
4. What is needed to enable this to happen? Some considerations might include:
 - ◆ What are the key data sources for impact information?
 - ◆ What format should these be incorporated in (e.g. documents, web portals, apps)?
 - ◆ Who are the key actors?
 - ◆ Who will provide funding?
 - ◆ What are the organisational and regulatory processes that need to be coordinated?
 - ◆ Where are the opportunities to trial?