

InterregIIIA Flood1
UK End User's Meeting
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Environment Agency Perspective

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Flood Risk Management

Environment Agency Remit

Environmental Watchdog for England & Wales

Regulation of Air, Land, Water

Monitoring, Protection & Improvement of:

- ▶▶ **Water Resources (Ground & Surface Waters)**
- ▶▶ **Water & Air Quality**
- ▶▶ **Contaminated Land**
- ▶▶ **Disposal of Waste**

Flood Risk Management

Key Areas of Agency Interest for Flood1

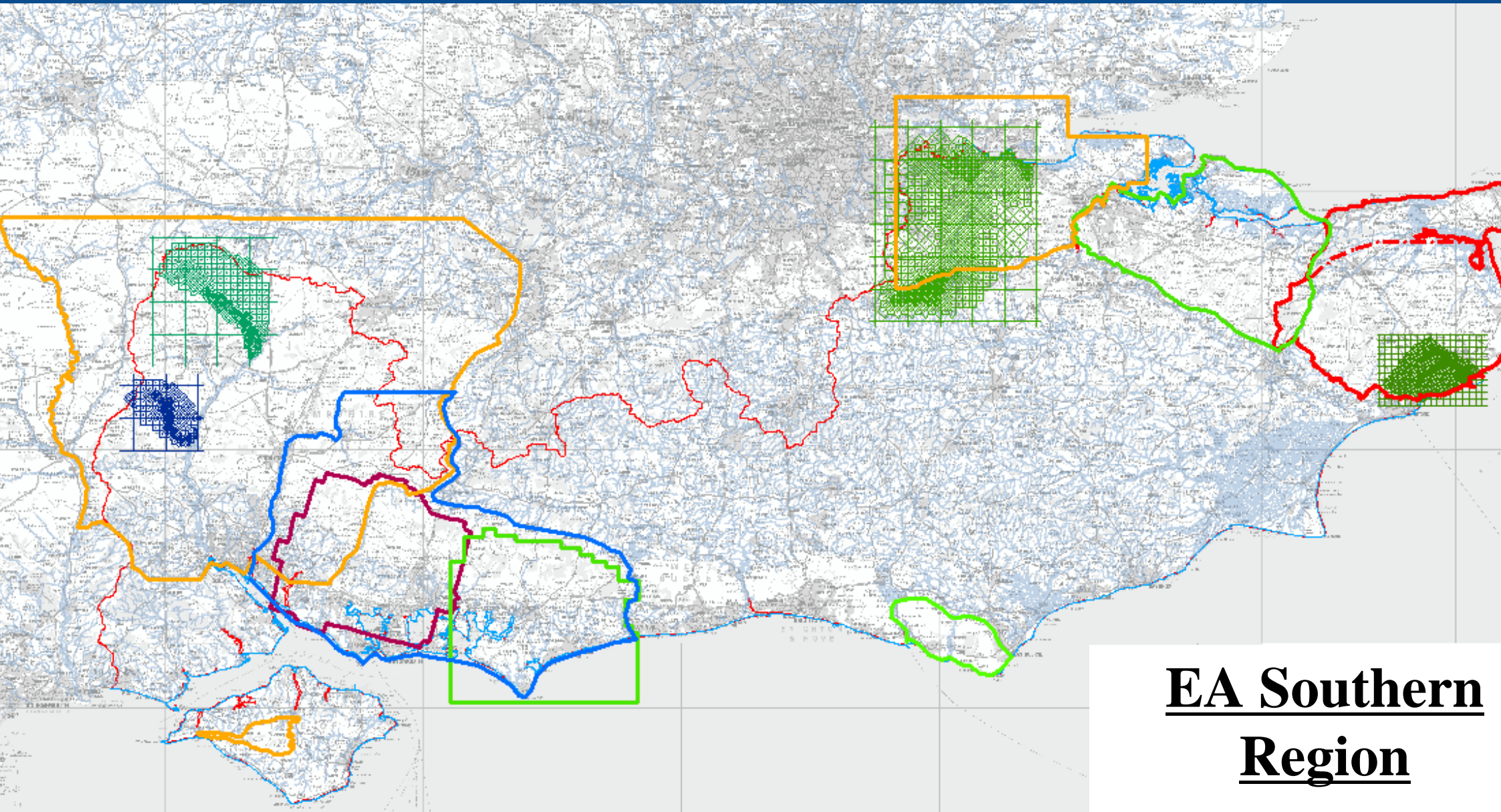
- Water Resources

- ▶▶ Regional Groundwater Modelling
- ▶▶ Aquifer Protection
- ▶▶ Abstraction Licensing

- Flood Risk Management:



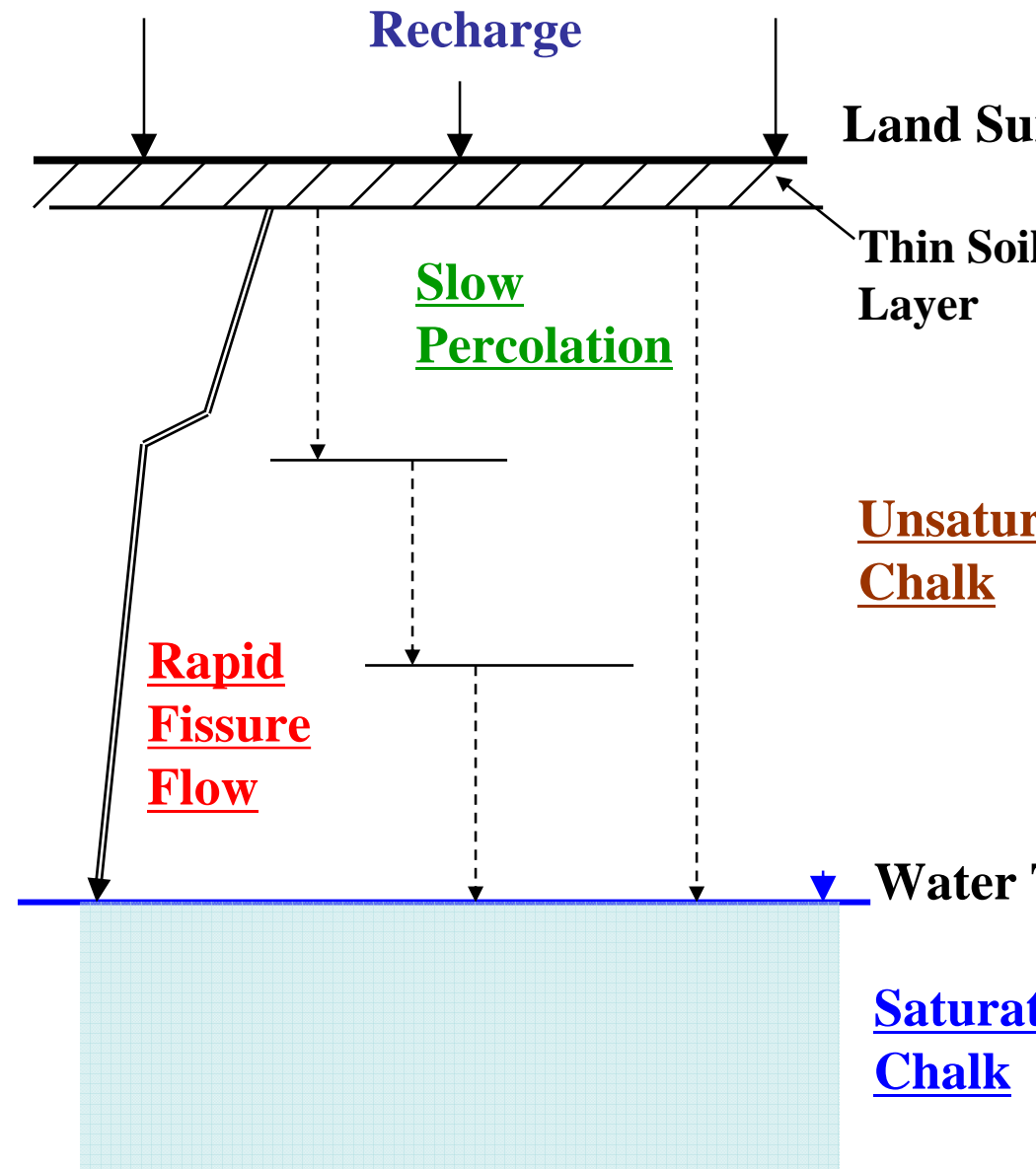
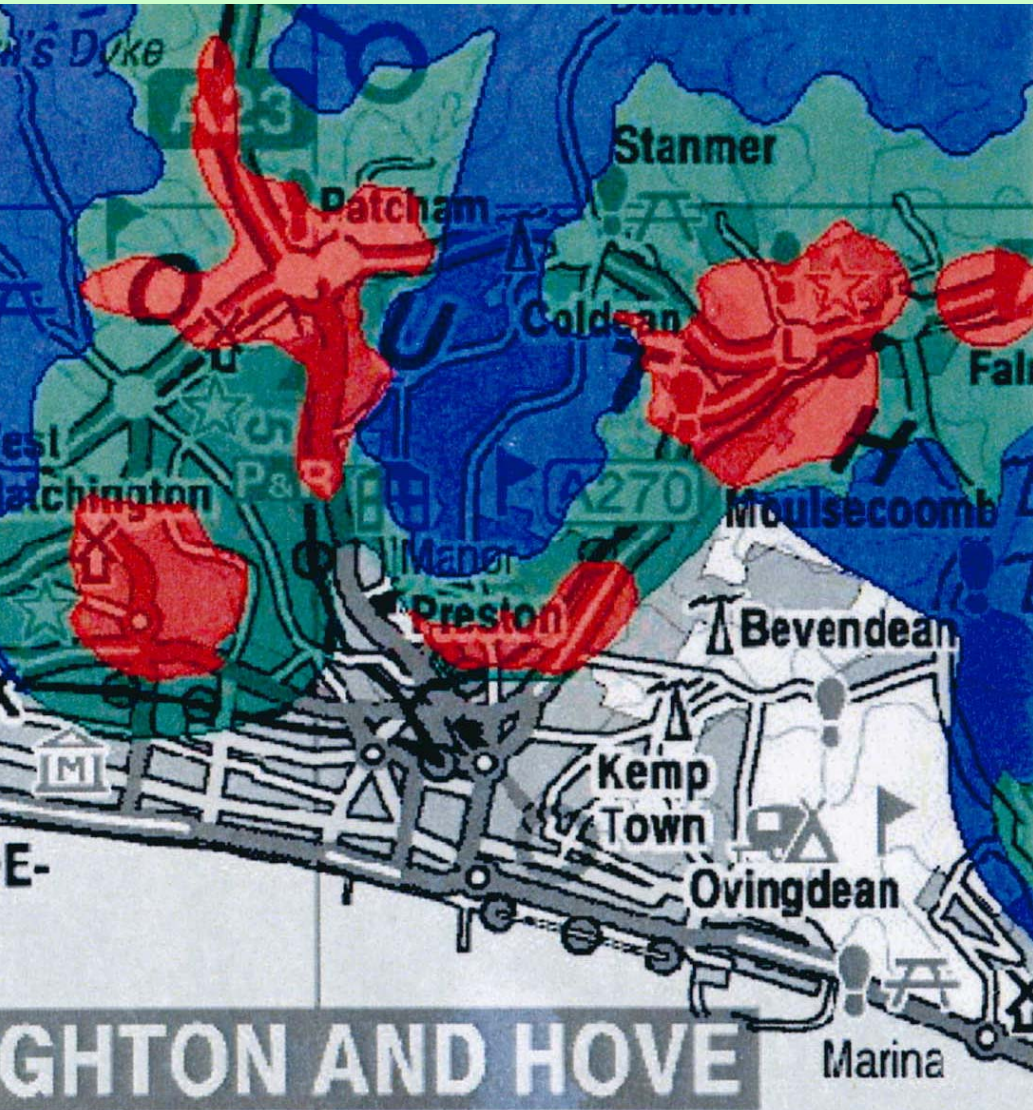
Regional Chalk Groundwater Modelling



EA Southern
Region

Aquifer Protection

Source Protection Zones (SPZs)

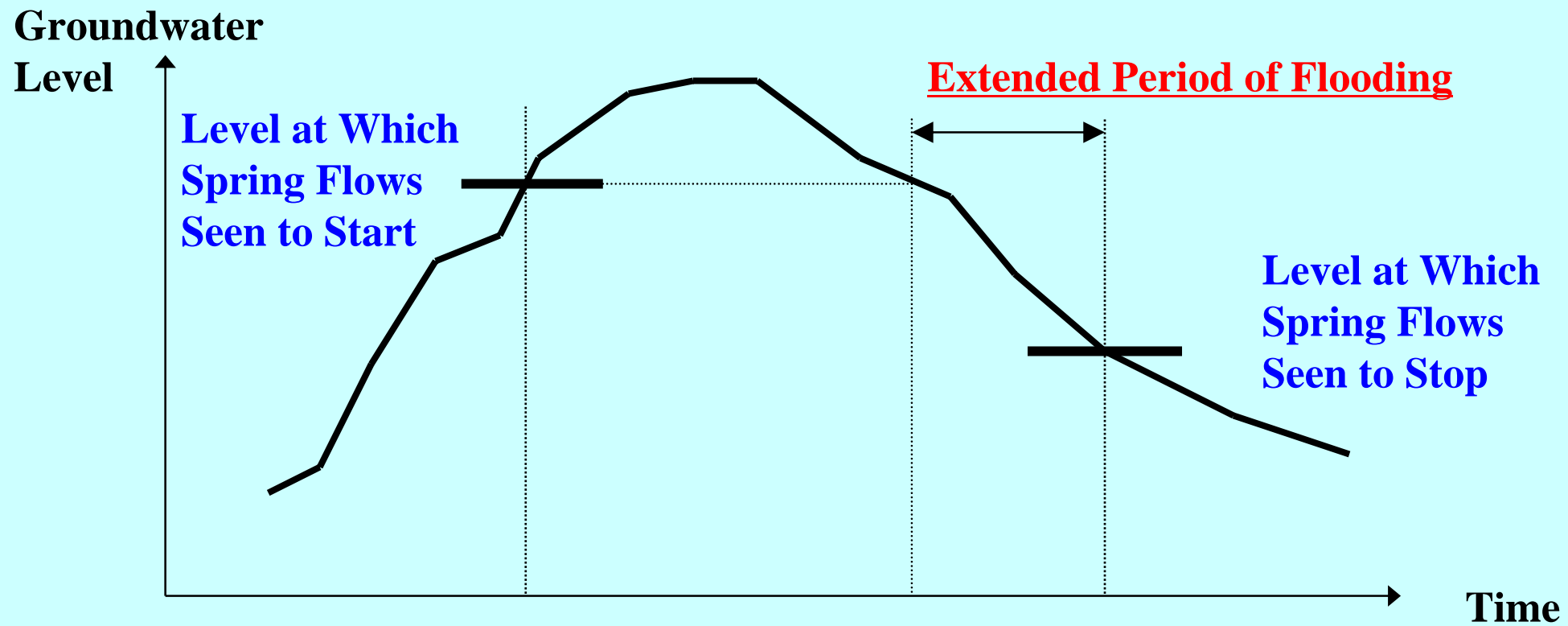


Abstraction Licensing & Delayed Yield

- Practically all abstractions have to be licenced by the Agency
- Agency has a duty to ensure new groundwater abstractions don't derogate the environment or existing rights
- Achieved by carrying out pumping tests but long term effect of delayed drainage from unsaturated zone can be problematical

Duration of Chalk Flood Events

Schematic Hydrograph for the Patcham Chalk



Summary of Water Resource Aspirations

Improved understanding of Chalk hydrogeological processes in the unsaturated zone

Their interaction with those in the saturated zone

Translation of this understanding into a form which could be incorporated into our groundwater models

2006



Agency

2006

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