

**Monitoring restoration of heavily degraded blanket bog  
in the South Pennines SAC:**

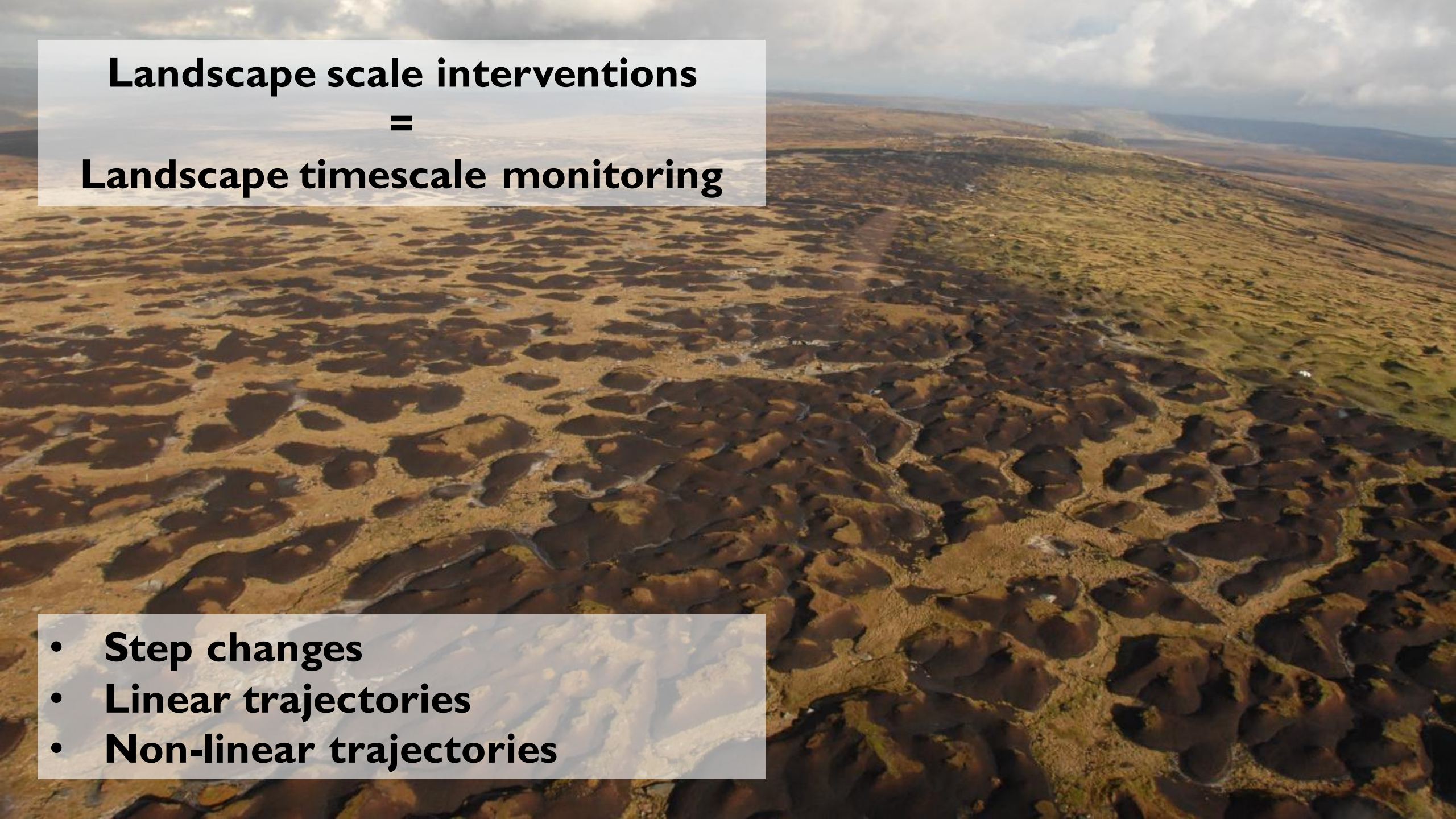
# **Trajectories of Ecosystem Change**

Tom Spencer



- **Erosion control**
- **Revegetation**
- **Rewetting**
- **Diversification**

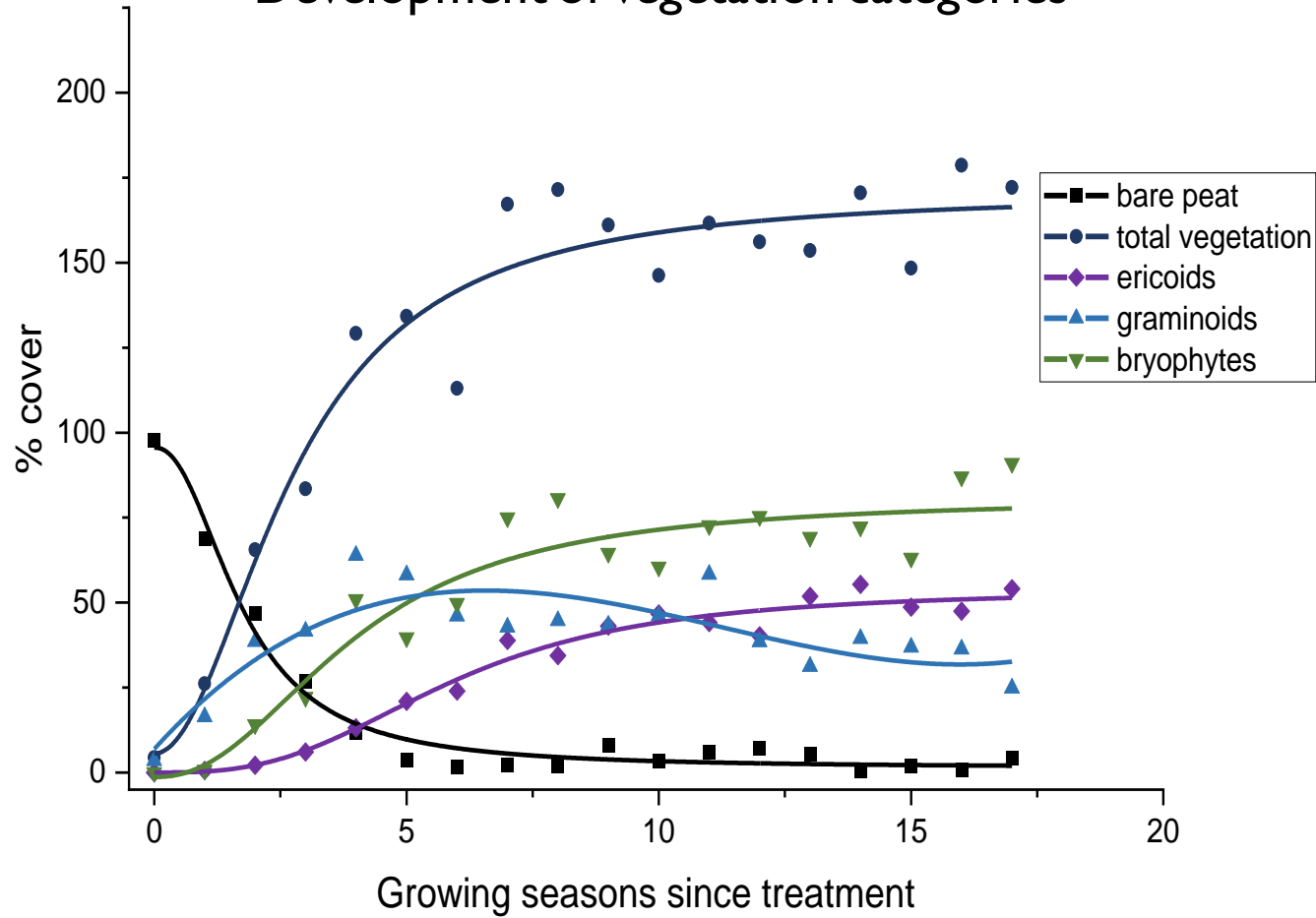




**Landscape scale interventions  
=  
Landscape timescale monitoring**

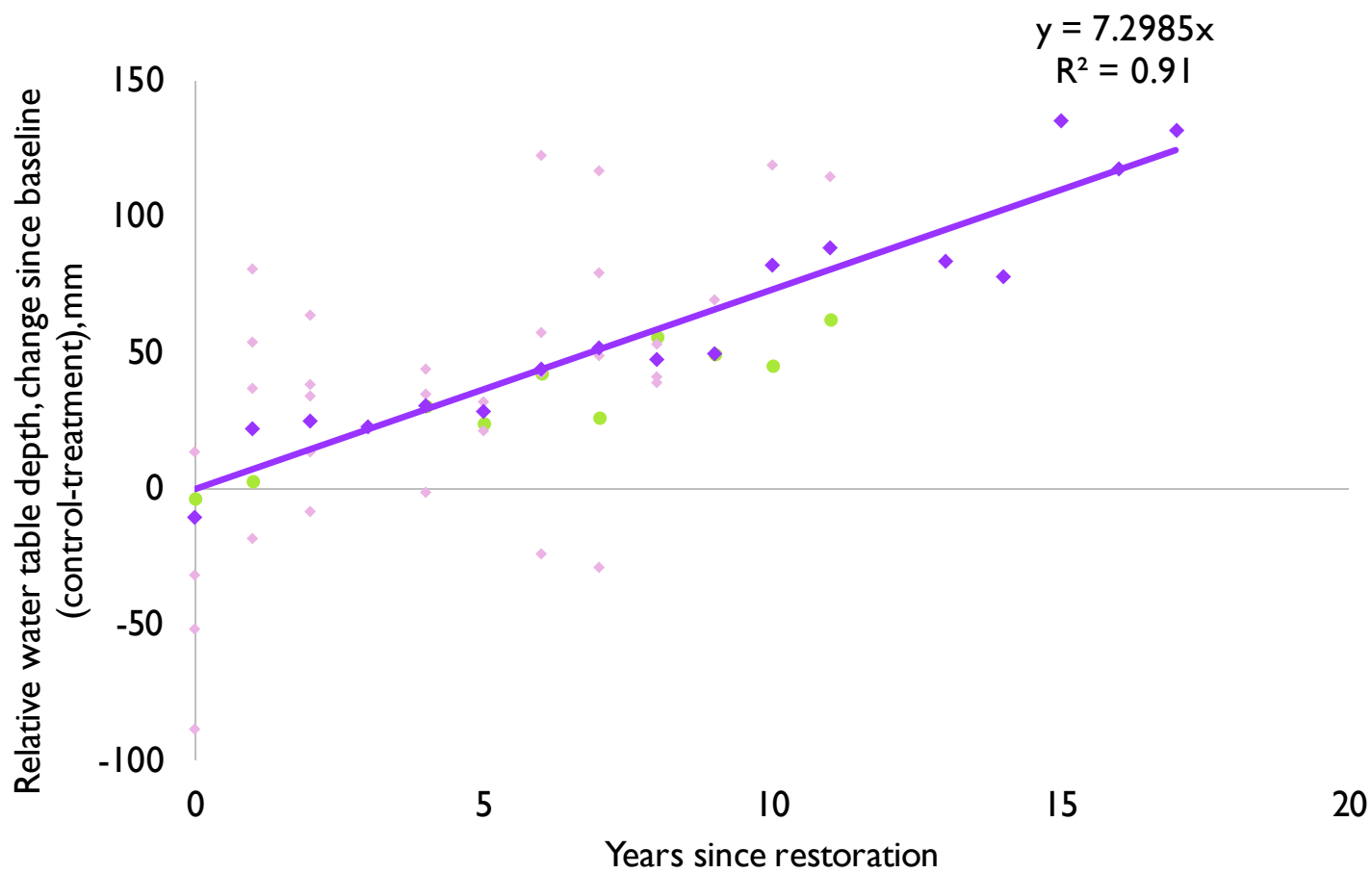
- **Step changes**
- **Linear trajectories**
- **Non-linear trajectories**

## Development of vegetation categories



## Trajectory Type:

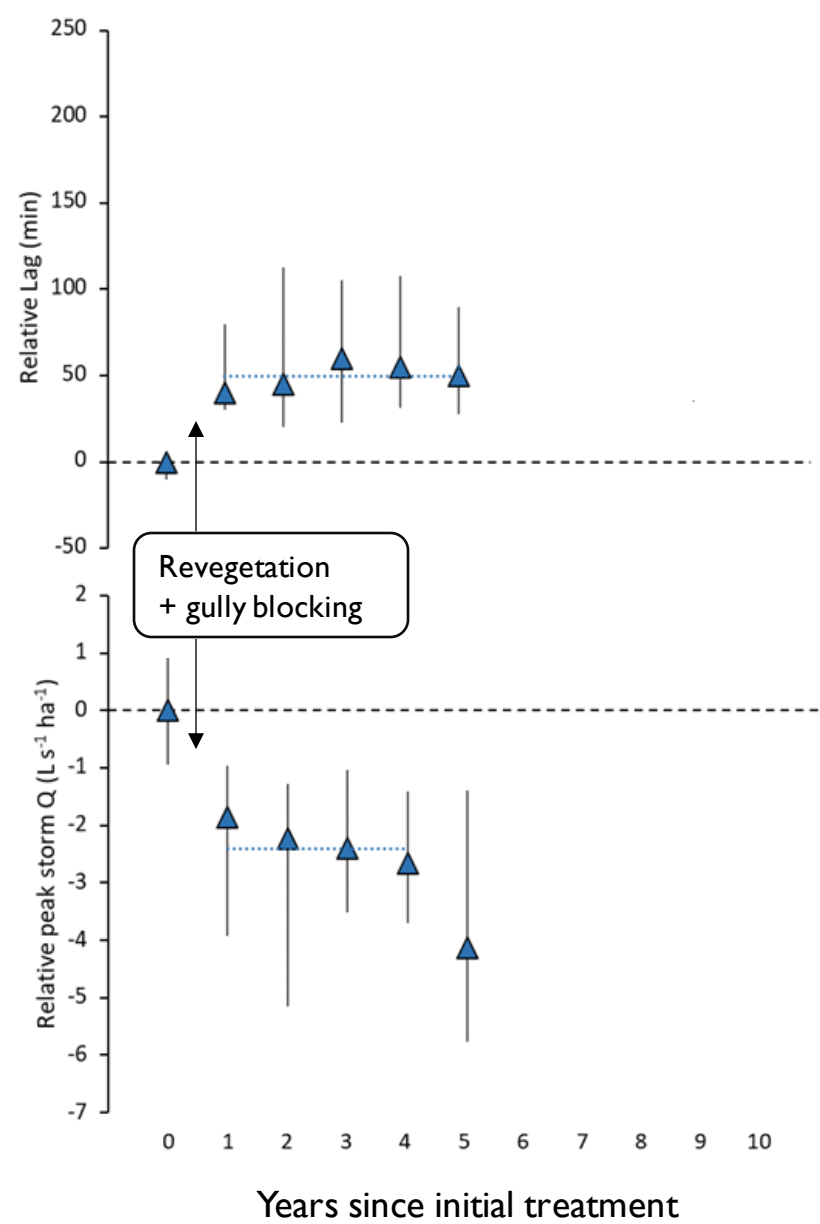
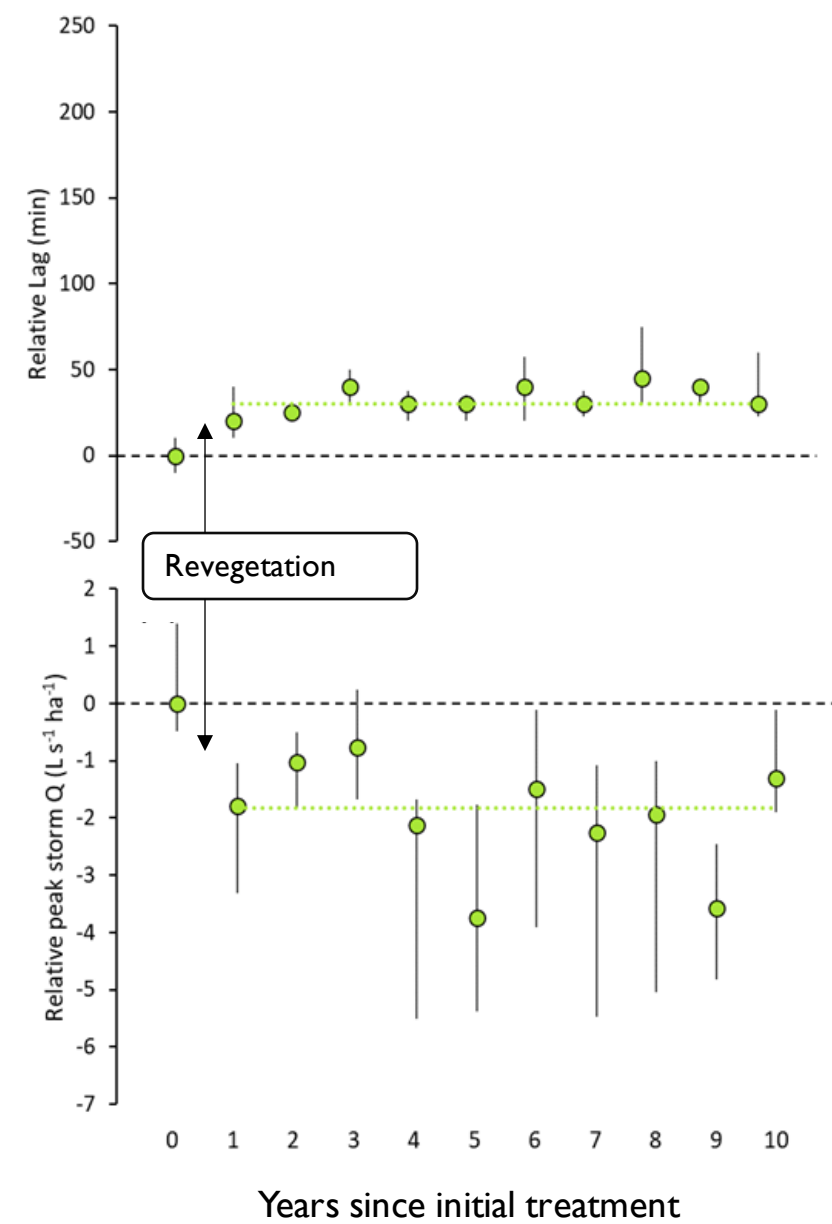
- “Dose response” logistic curves
- Multiple phases – succession
- Stable – for now?



- Kinder field labs (N/O)
- ◆ wider context individual sites
- ◆ All sites median (corrected for peat surface height change)

Trajectory Type:

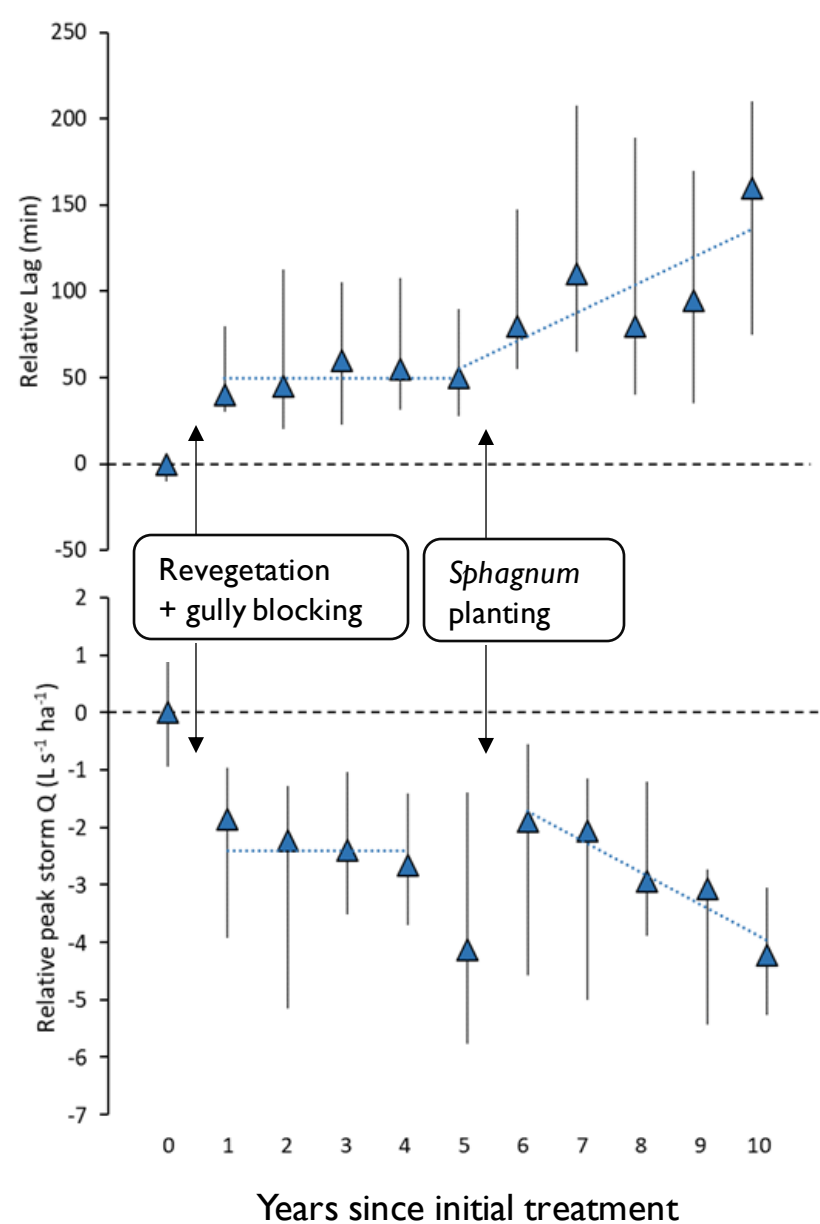
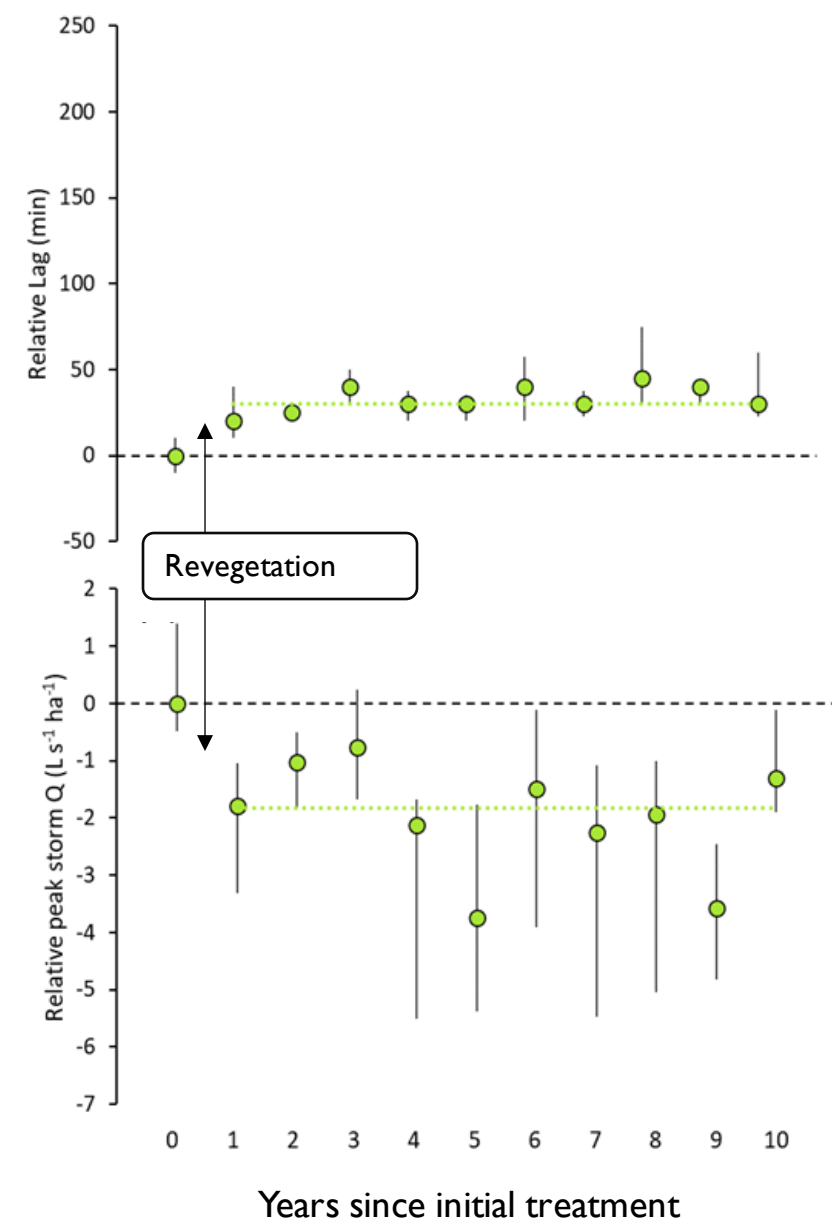
- Linear
- Continuing, but for how long?



Trajectory Type:

- Step change
- Stable – for now?

Trajectories of change: storm hydrographs

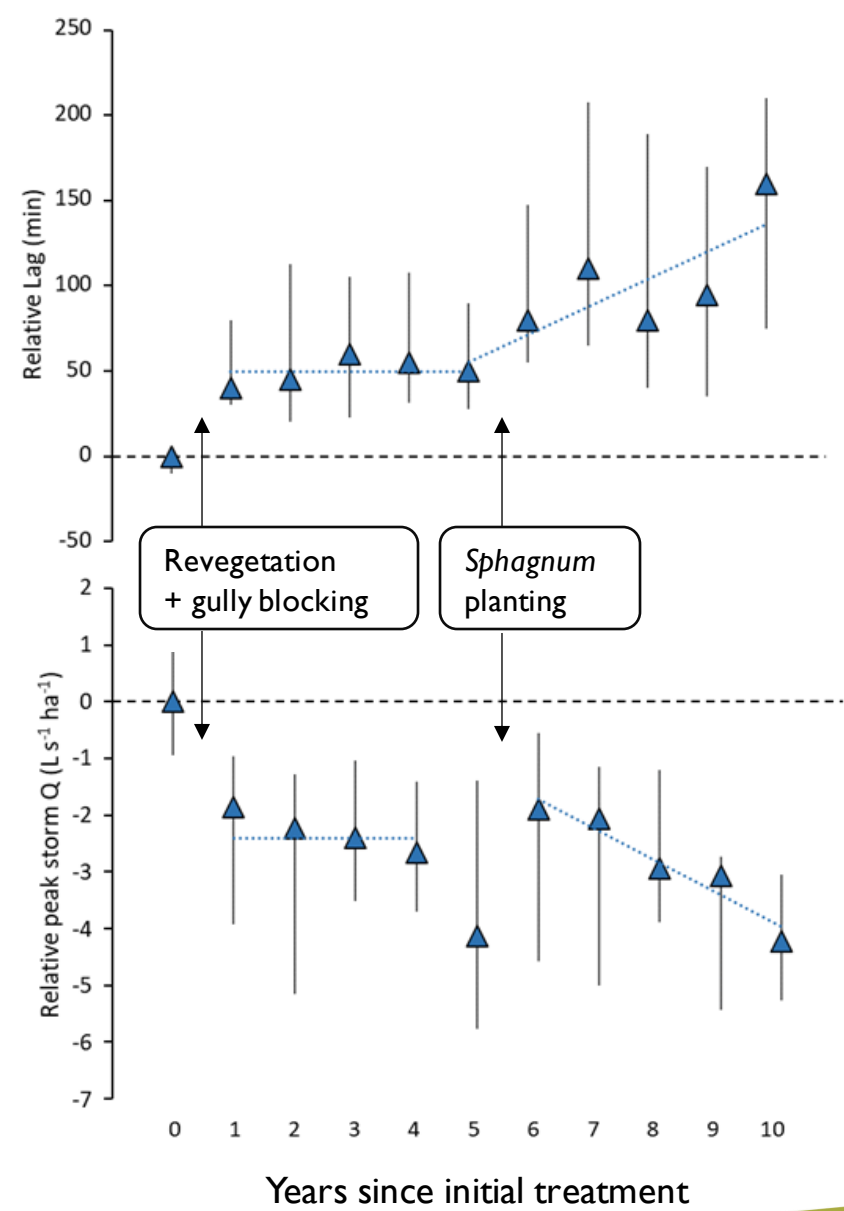
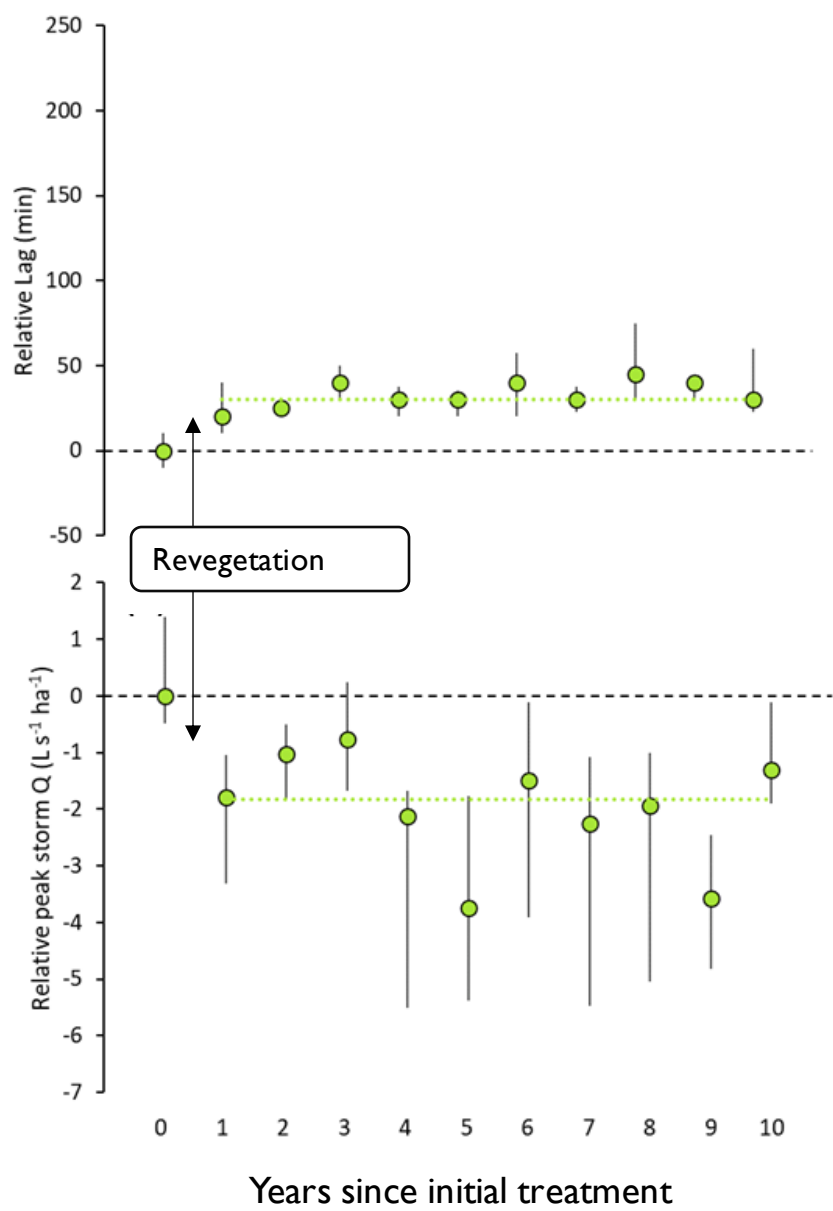


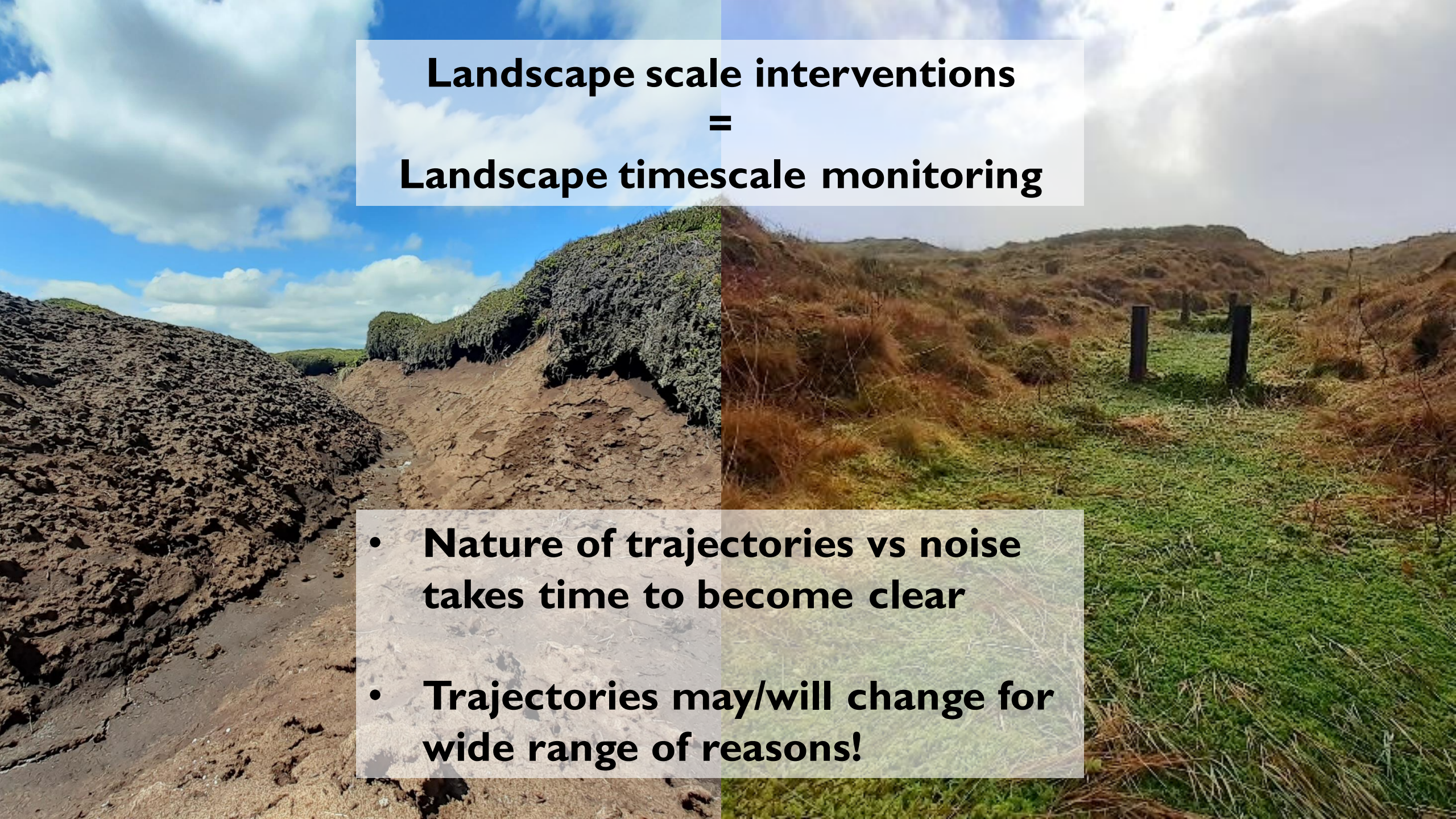
Trajectory Type:

- Step change
- New linear trajectory – but for how long?

Trajectories of change: storm hydrographs







**Landscape scale interventions  
=  
Landscape timescale monitoring**

- **Nature of trajectories vs noise takes time to become clear**
- **Trajectories may/will change for wide range of reasons!**

