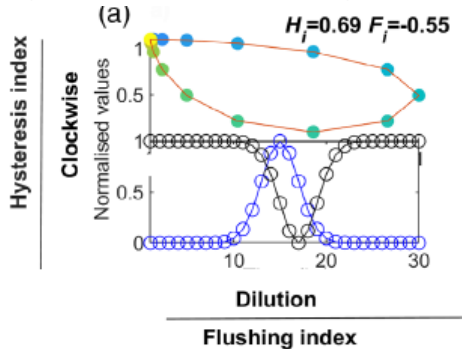


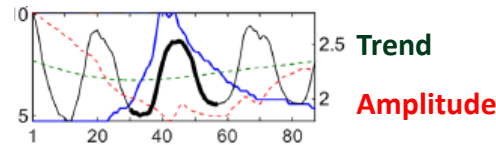
## Catchment and data



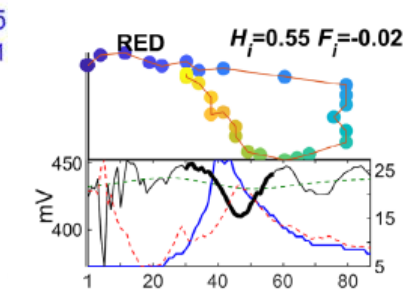
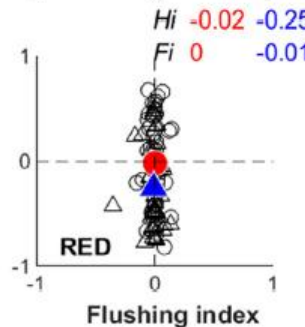
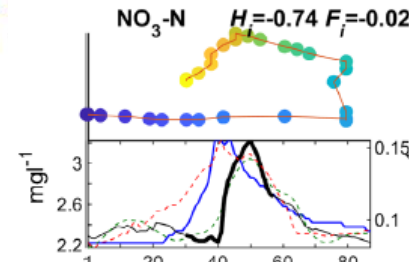
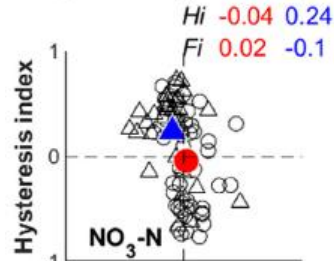
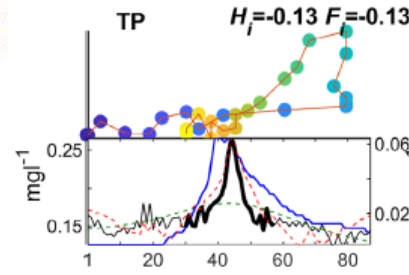
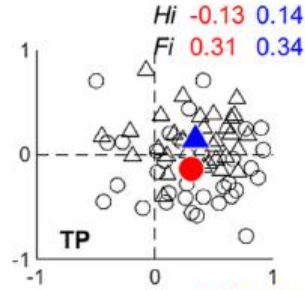
## Hysteresis and flushing indices



## Dynamic Harmonic Regression



## Results



## Dual flushing and cycling behaviour

Flushing dominated	TP
	TRP
	TURB
Mixed flushing-cycling	NO <sub>3</sub> -N
	COND
	pH
Cycling dominated	DO
	RED
	TEMP

### High-magnitude storm events

Mobilisation	Flushing	Cycling
$H_i$	$F_{i,Trend}$	$F_{i,Amp}$
Clockwise	Concentration	Enhanced
Clockwise	Dilution	Enhanced
		Dampened
Anti-clockwise	Dilution	Dampened
-	-	Dampened

### Low-magnitude storm events

Mobilisation	Flushing	Cycling
$H_i$	$F_{i,Trend}$	$F_{i,Amp}$
Anti-clockwise	Concentration	Enhanced
Anti-clockwise	Concentration	Enhanced
		Dampened
Clockwise	Dilution	Dampened
		Enhanced
-	-	Dampened