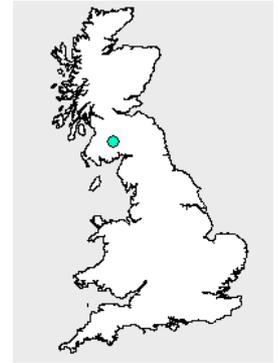


## General Information

River Name	Nith	Catchment Area (km2)	471
Station Name	Drumlanrig	SAAR (mm) 61-90	1485
Station Number	79006	Mean Annual Rain (mm) 62-91	1504
Grid Reference	NX858994	Mean Annual PE (mm) 62-91	450
EA Region	SEPA-SW	Observed flow record	1967 to 2005



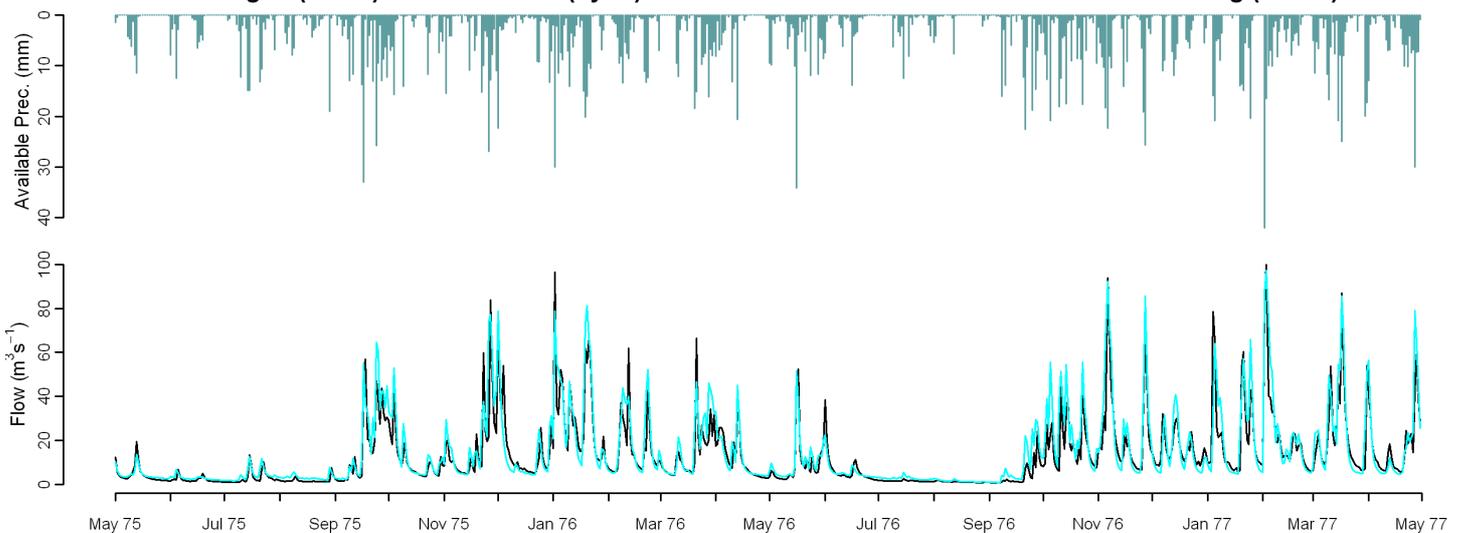
## Observed Data

## Comparison of gauged and simulated flow

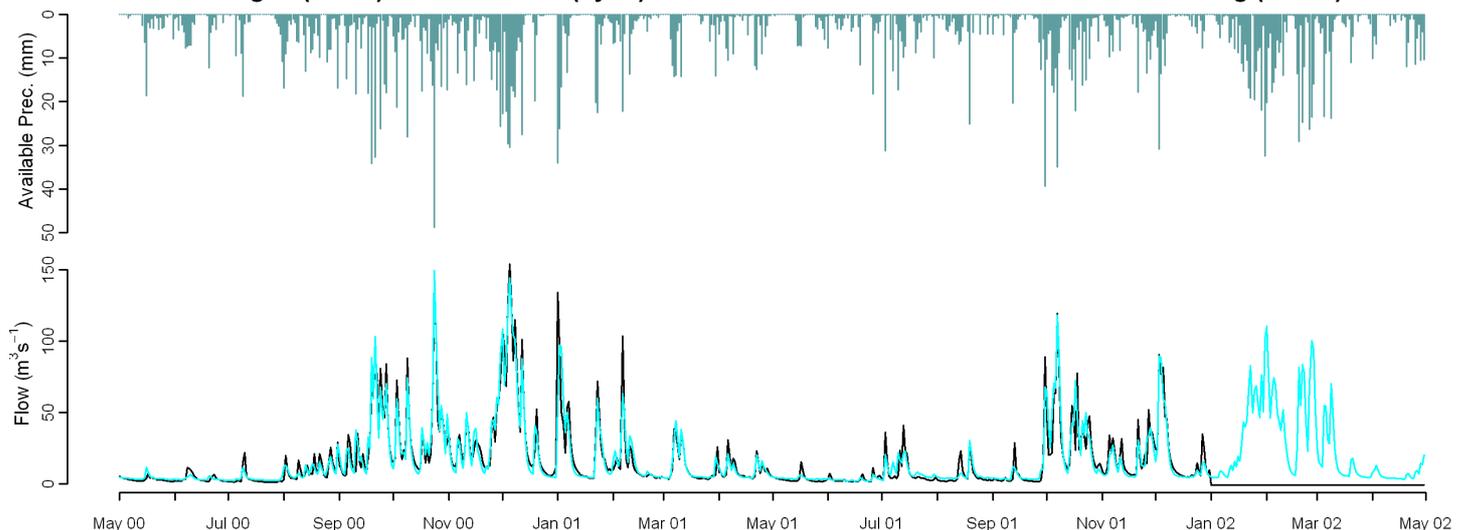
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	0.6	-3.3	0.9	-1.5	-6.7	-4.1	-0.3	7.4	8.8	9.0	7.0	1.2	-1.8	0.84
Performance Band	1	1	1	1	1	1	1	2	1	2	1	1	1	1
MORECS (1962-1991)	2.6	0.5	0.9	1.8	-5.7	-5.5	1.3	7.9	11.2	10.6	5.2	3.7	1.5	0.82
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	54.7	15.7	-16.7	3.2	3.8									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	52.7	16.5	-13.6	6.6	4.5									

Gauged (black) and simulated (cyan) flows from observed climate - Nith at Drumlanrig (79006)

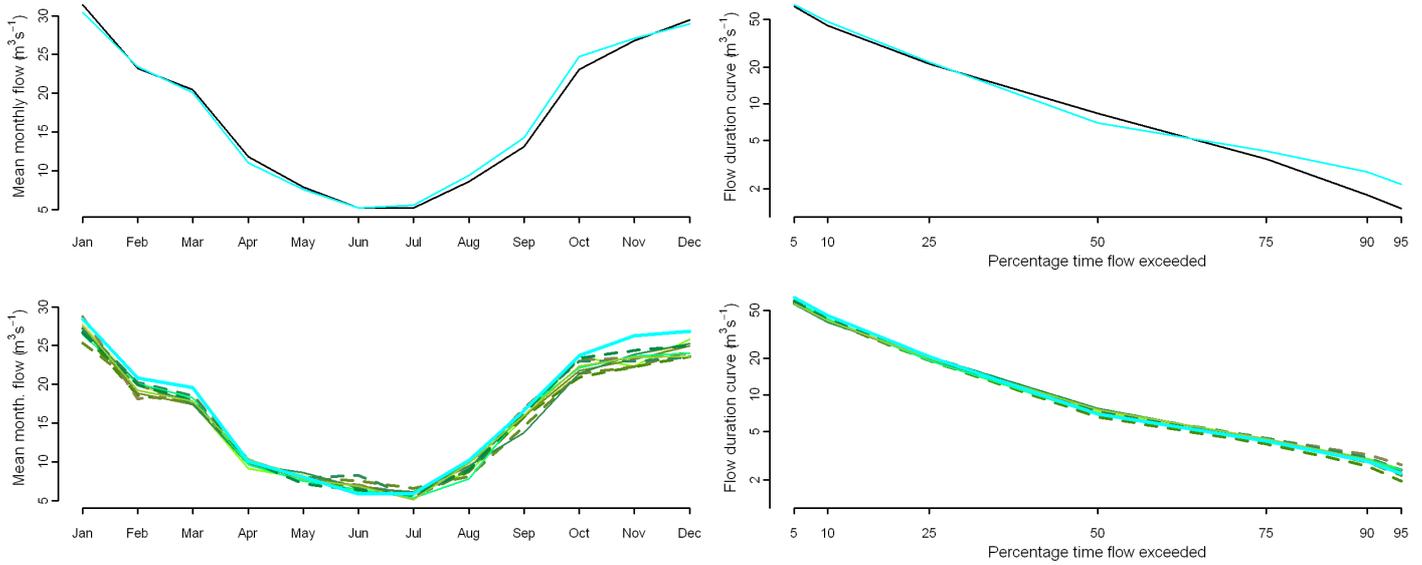


Gauged (black) and simulated (cyan) flows from observed climate - Nith at Drumlanrig (79006)



## Comparison of gauged and simulated flow (observed and modelled climate)

Gauged (black), simulated from obs. (cyan) and mod. (green) climate - Top 1971-2005 bottom 1962-1991 - Nith at Drumlanrig (79006)



## Percentage difference between flow simulated from observed climate and Future Flows Climate

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-4	-6	-3	-1	-5	-6	-5	-3	-5	-4	-5
January	-2	-4	0	-1	-4	-7	-8	-4	-7	-10	0
April	-7	-1	2	9	-2	2	-2	2	-5	5	2
July	-2	-1	-5	3	1	1	6	-7	-8	-6	-13
October	0	-6	-12	1	-7	-8	-2	-5	-6	1	-4
Q90	6	-5	2	14	1	-2	1	7	5	-1	2
Q75	3	-4	2	5	1	-1	2	4	0	1	3
Q50	5	-4	7	7	6	2	11	6	-1	7	8
Q25	-3	-7	-2	-2	-6	-6	-1	-3	-7	-2	-4
Q5	-9	-9	-10	-6	-9	-11	-11	-7	-7	-8	-12
RP2	-7	-3	-7	-5	-4	-2	-3	0	-4	-10	-4
RP10	-9	-3	-4	-4	6	-5	0	3	-1	-2	5

## Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Nith at Drumlanrig (79006)

