

General Information

River Name	Nith	Catchment Area (km2)	799
Station Name	Friars Carse	SAAR (mm) 61-90	1460
Station Number	79002	Mean Annual Rain (mm) 62-91	1470
Grid Reference	NX923851	Mean Annual PE (mm) 62-91	457
EA Region	SEPA-SW	Observed flow record	1961 to 2006



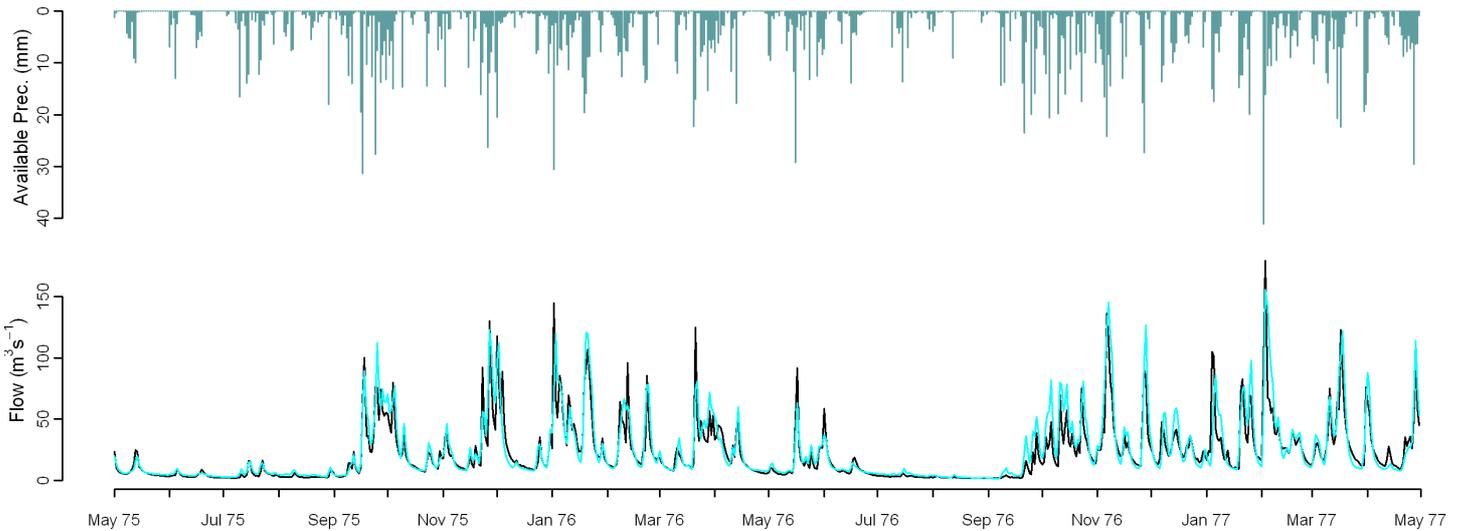
Observed Data

Comparison of gauged and simulated flow

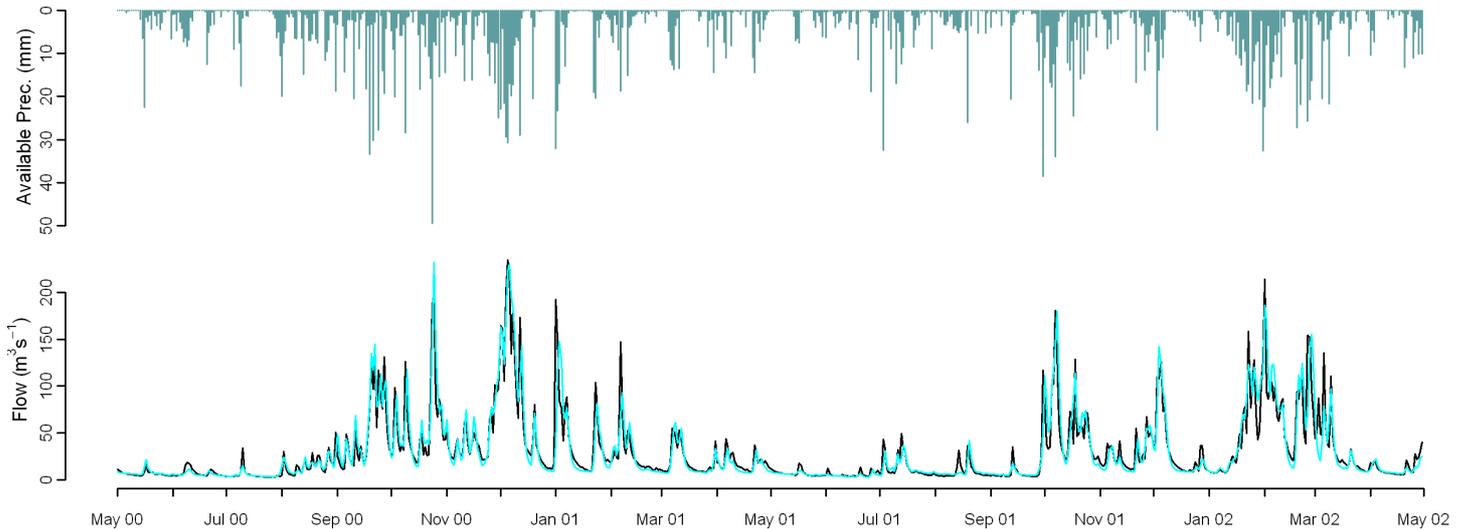
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	2.4	0.5	3.1	-0.3	-4.8	-5.1	-3.2	1.0	3.9	7.4	10.0	4.3	2.8	0.80
Performance Band	1	1	1	1	1	1	1	1	1	2	1	1	1	1
MORECS (1962-1991)	3.5	2.7	2.6	3.2	-2.8	-6.7	-0.8	5.5	6.7	9.7	6.5	6.8	2.4	0.77
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	28.9	9.1	-14.9	0.5	9.0									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	30.9	9.5	-12.5	3.5	7.9									

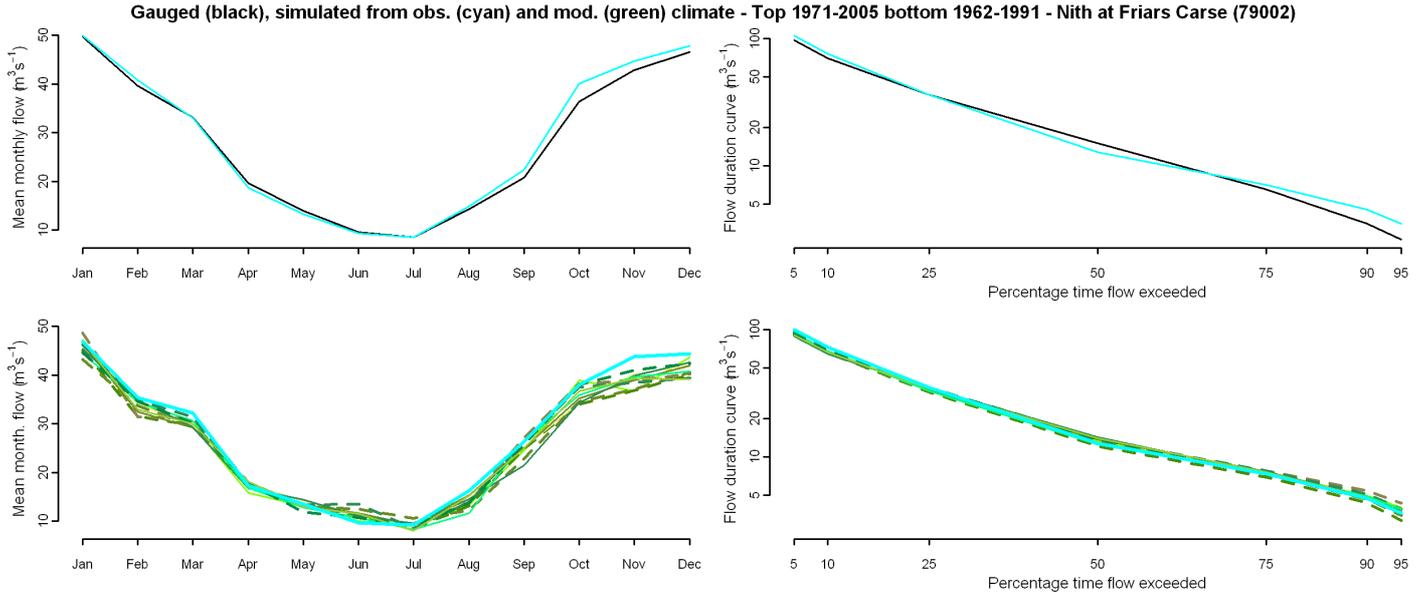
Gauged (black) and simulated (cyan) flows from observed climate - Nith at Friars Carse (79002)



Gauged (black) and simulated (cyan) flows from observed climate - Nith at Friars Carse (79002)



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



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

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-3	-5	-2	0	-4	-6	-4	-2	-5	-3	-4
January	1	-2	2	1	-1	-4	-6	-2	-5	-8	4
April	-6	-1	2	12	-2	3	0	2	-3	5	3
July	-3	-1	-6	3	1	2	6	-7	-10	-5	-13
October	3	-5	-12	4	-6	-7	-1	-4	-5	1	-2
Q90	5	-6	1	16	-2	-3	0	8	4	-3	1
Q75	3	-5	1	7	2	-3	1	5	-1	1	2
Q50	5	-4	7	7	6	2	12	8	-1	8	9
Q25	-1	-6	-1	-1	-4	-5	0	0	-5	-1	-2
Q5	-8	-6	-9	-4	-8	-9	-11	-5	-7	-8	-11
RP2	-5	-4	-6	-3	-4	-2	-4	-1	-3	-10	-2
RP10	-8	-6	-4	-2	5	-6	-3	2	-2	-3	4

Climate change graphs for 2050s

