

General Information

River Name	Whiteadder Water	Catchment Area (km ²)	503
Station Name	Hutton Castle	SAAR (mm) 61-90	814
Station Number	21022	Mean Annual Rain (mm) 62-91	832
Grid Reference	NT881550	Mean Annual PE (mm) 62-91	526
EA Region	SEPA-SE	Observed flow record	1969 to 2006



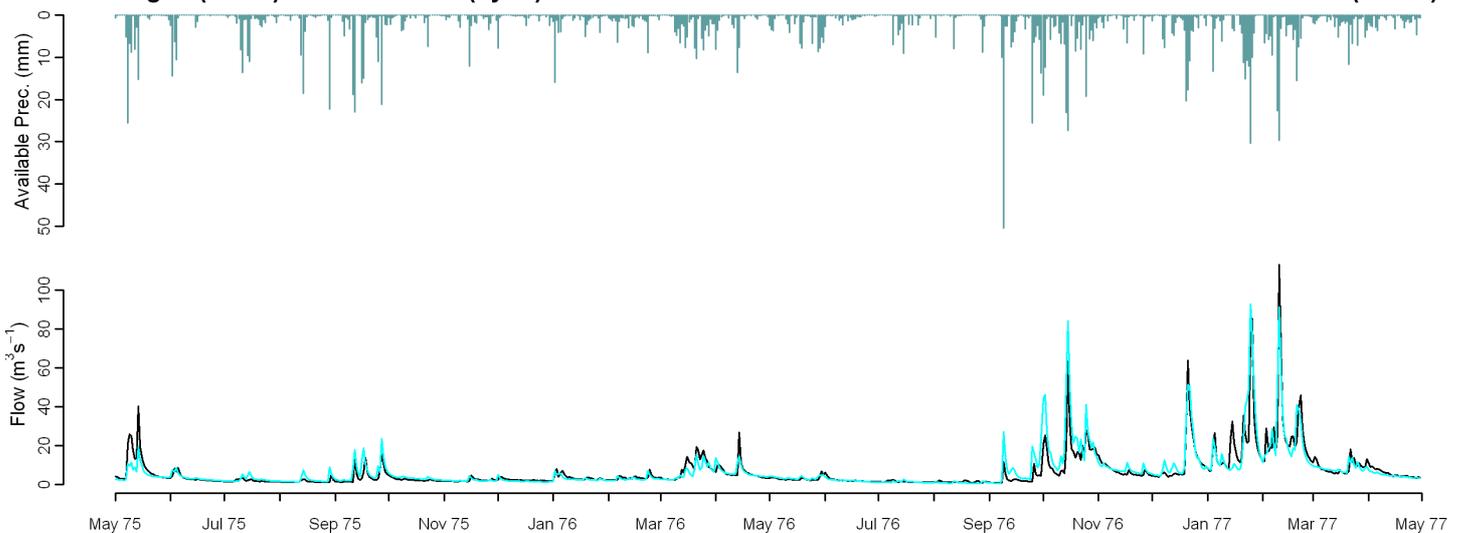
Observed Data

Comparison of gauged and simulated flow

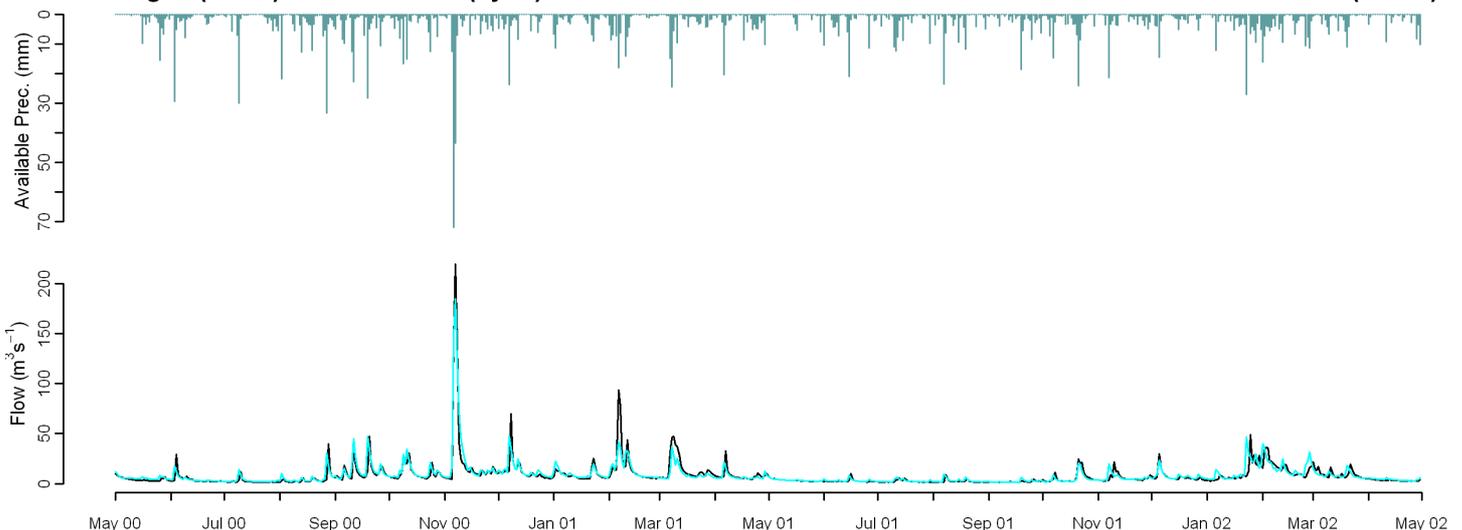
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	3.5	1.4	0.4	-6.5	-8.5	-8.9	-3.9	9.7	12.9	23.9	16.7	11.8	8.6	0.73
Performance Band	1	1	1	1	2	1	1	1	1	2	1	1	1	1
MORECS (1962-1991)	1.1	-2.4	-1.2	-6.1	-7.6	-12.8	-3.7	12.1	14.2	26.1	16.6	5.4	3.9	0.76
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	0.9	12.0	13.2	1.5	3.9									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	2.6	12.6	13.6	0.2	-0.3									

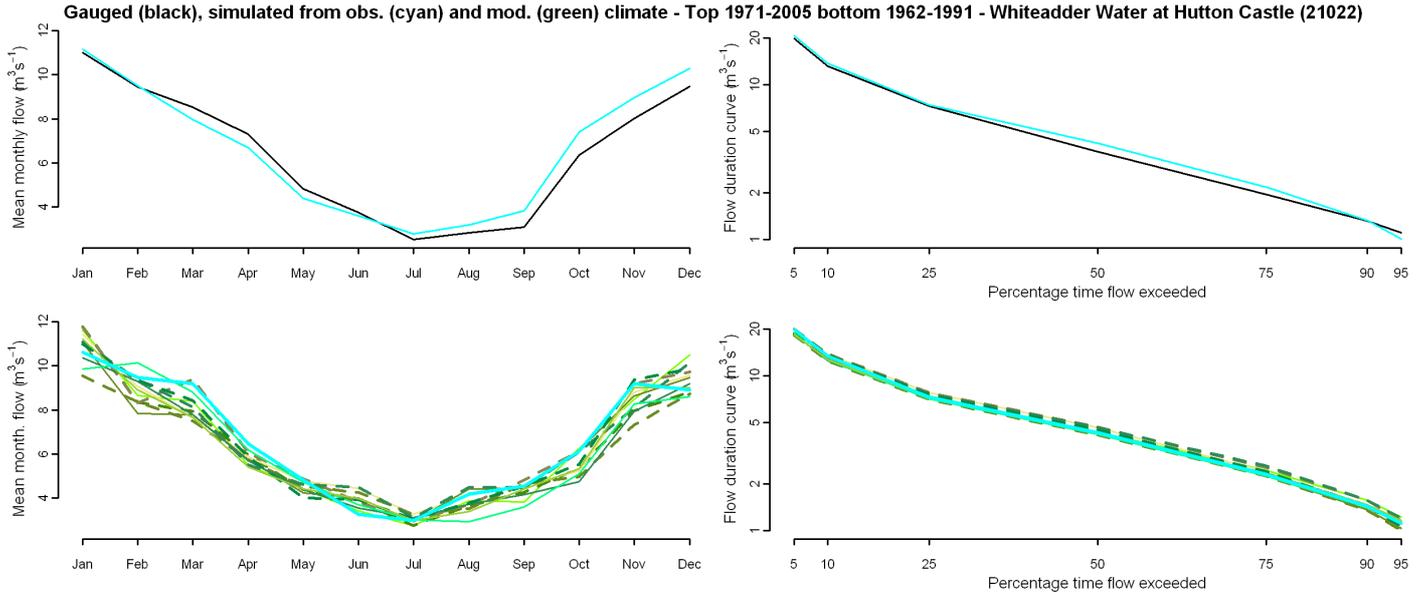
Gauged (black) and simulated (cyan) flows from observed climate - Whiteadder Water at Hutton Castle (21022)



Gauged (black) and simulated (cyan) flows from observed climate - Whiteadder Water at Hutton Castle (21022)



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	0	-4	2	4	-4	-6	-6	3	-5	0	-6
January	11	4	7	10	4	-5	-4	6	-5	3	5
April	-15	-14	-4	-2	-9	-11	-10	-5	-3	-8	-14
July	-4	1	14	2	-1	5	7	5	2	2	1
October	3	-11	-13	4	-4	-16	-12	-5	-14	-9	-11
Q90	12	-3	-2	8	-8	-6	0	10	-2	-2	3
Q75	6	4	4	12	-5	-4	0	14	-4	2	0
Q50	0	1	7	9	-1	-3	-2	9	-3	3	0
Q25	1	-1	7	7	-2	-2	-1	7	-2	3	-2
Q5	-1	-8	1	1	-3	-6	-6	2	-5	-1	-9
RP2	-11	-15	-15	-10	-6	-18	-17	-16	-16	-11	-14
RP10	-19	-15	-23	-20	-9	-26	-28	-19	-17	-10	0

Climate change graphs for 2050s

