

## General Information

River Name	Kirtle Water	Catchment Area (km <sup>2</sup> )	72
Station Name	Mossknowe	SAAR (mm) 61-90	1177
Station Number	77004	Mean Annual Rain (mm) 62-91	1196
Grid Reference	NY285693	Mean Annual PE (mm) 62-91	509
EA Region	SEPA-SW	Observed flow record	1979 to 2005



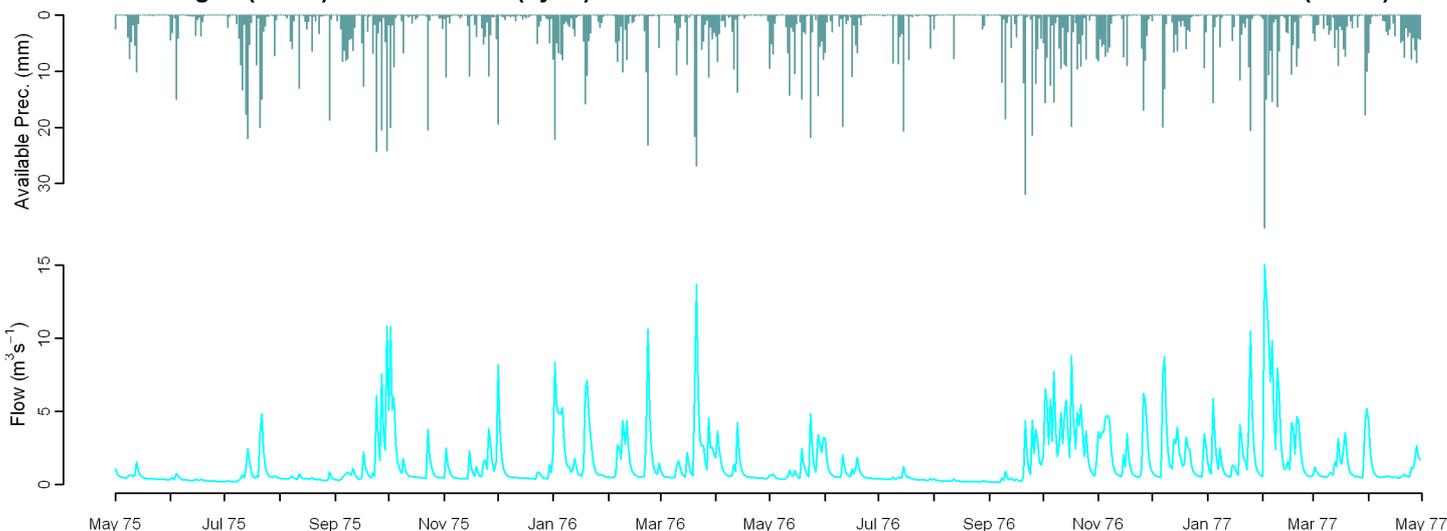
## Observed Data

## Comparison of gauged and simulated flow

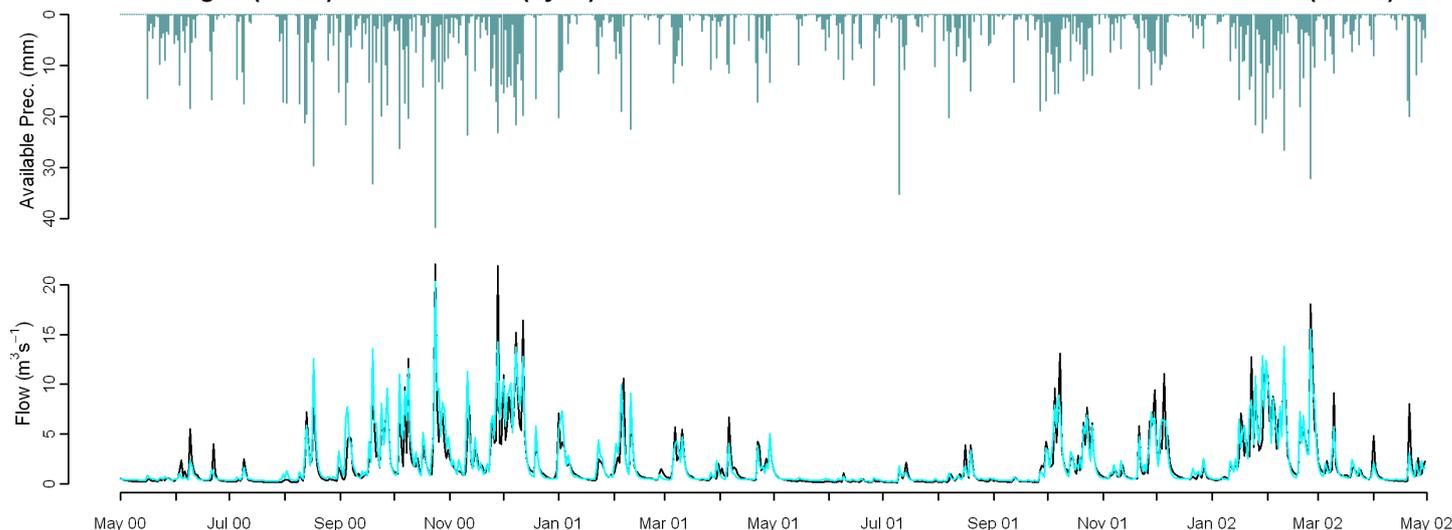
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	2.9	4.4	2.1	-1.4	-6.3	-7.3	-7.2	-0.3	1.9	7.1	7.0	6.2	6.4	0.82
Performance Band	1	1	1	1	1	1	1	1	1	1	1	1	2	1
MORECS (1962-1991)	1.1	1.6	0.6	-2.1	-11.9	-6.6	-13.3	-4.1	1.7	1.0	5.7	4.9	6.4	0.81
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	70.4	34.5	-18.9	1.2	6.5									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	62.8	31.7	-24.8	-5.2	4.9									

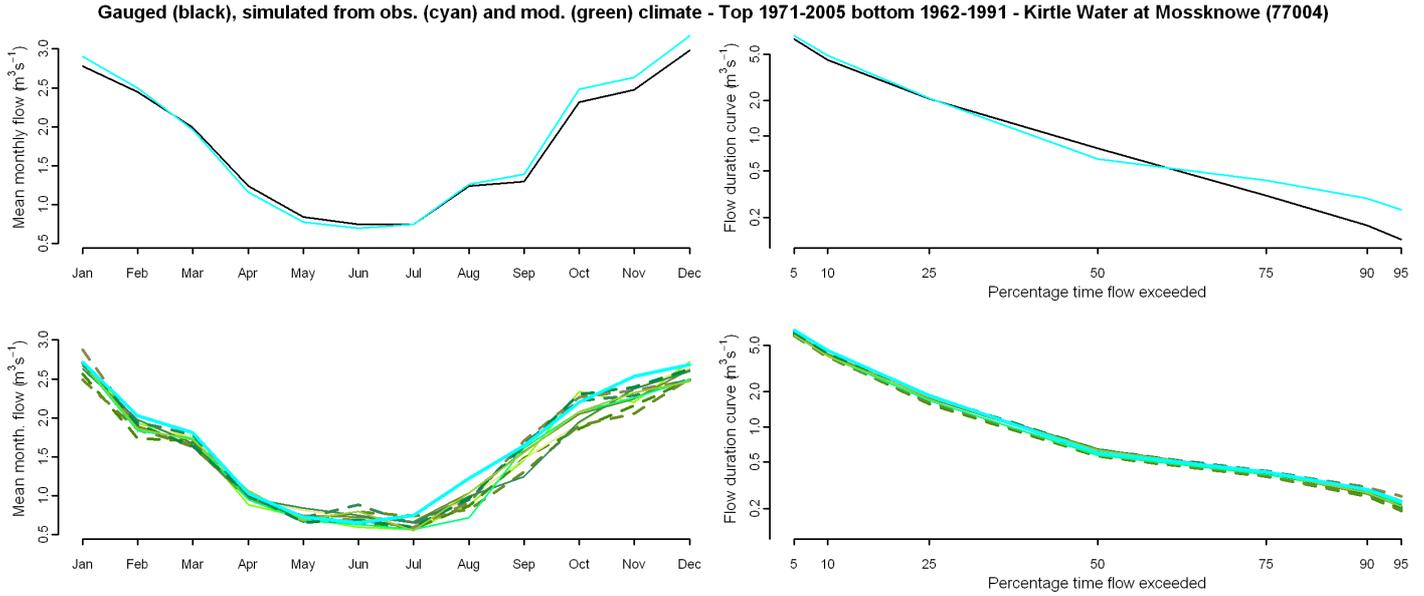
Gauged (black) and simulated (cyan) flows from observed climate - Kirtle Water at Mossknowe (77004)



Gauged (black) and simulated (cyan) flows from observed climate - Kirtle Water at Mossknowe (77004)



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	-5	-9	-5	-1	-5	-9	-6	-1	-7	-3	-5
January	1	-5	0	3	-1	-4	-6	0	-1	-4	5
April	-13	-8	-6	6	-9	-2	-3	-2	-12	0	0
July	-22	-17	-23	-18	-11	-11	-11	-13	-25	-22	-26
October	6	-11	-18	6	-7	-12	0	-3	-5	7	-5
Q90	-2	-12	-8	5	-12	-11	-7	1	-5	-11	-7
Q75	-2	-8	-4	2	-5	-9	-3	2	-5	-2	-2
Q50	2	-6	0	4	0	-5	8	5	-4	5	4
Q25	-3	-14	-3	-1	-6	-12	-3	0	-9	-2	-3
Q5	-10	-9	-9	-5	-7	-11	-9	-3	-8	-7	-10
RP2	-3	-2	-3	4	-3	-5	-9	0	0	0	3
RP10	2	-4	6	7	8	-1	-7	14	1	17	12

Climate change graphs for 2050s

