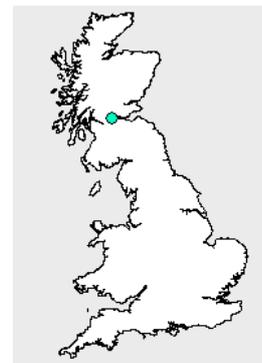


## General Information

River Name	Bonny Water	Catchment Area (km <sup>2</sup> )	51
Station Name	Bonnybridge	SAAR (mm) 61-90	1154
Station Number	17003	Mean Annual Rain (mm) 62-91	1193
Grid Reference	NS824804	Mean Annual PE (mm) 62-91	508
EA Region	SEPA-SE	Observed flow record	1971 to 2002



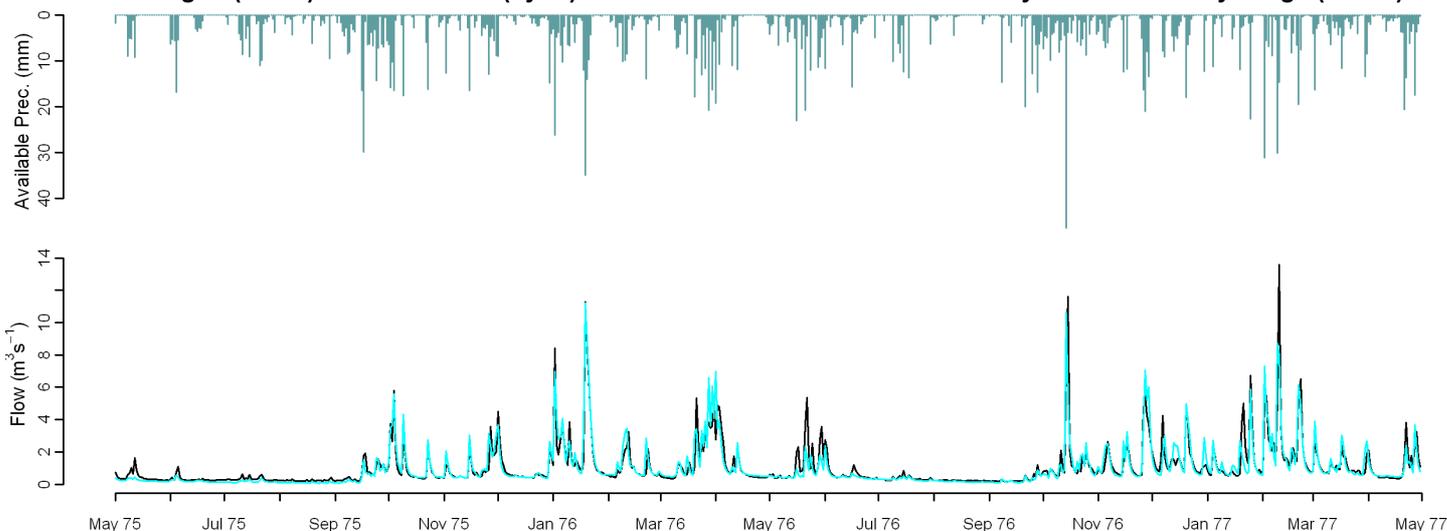
## Observed Data

## Comparison of gauged and simulated flow

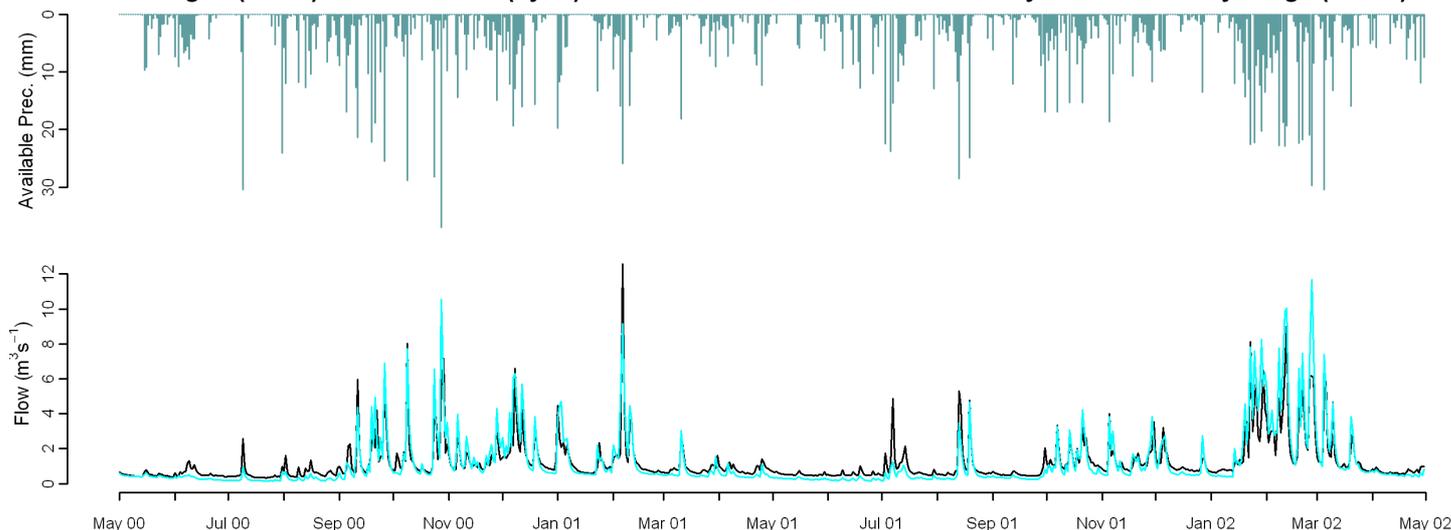
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-6.7	3.4	4.9	-3.3	-19.7	-31.9	-36.7	-39.3	-35.2	-20.0	-2.4	4.1	5.4	0.78
Performance Band	1	1	1	1	2	3	3	3	3	2	1	1	1	1
MORECS (1962-1991)	-8.3	0.7	-0.8	-3.2	-18.9	-32.0	-39.4	-41.8	-35.4	-17.7	-3.7	3.0	-0.2	0.80
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	-39.2	-28.4	-25.6	-11.5	12.8									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	-40.0	-27.0	-23.5	-13.9	10.1									

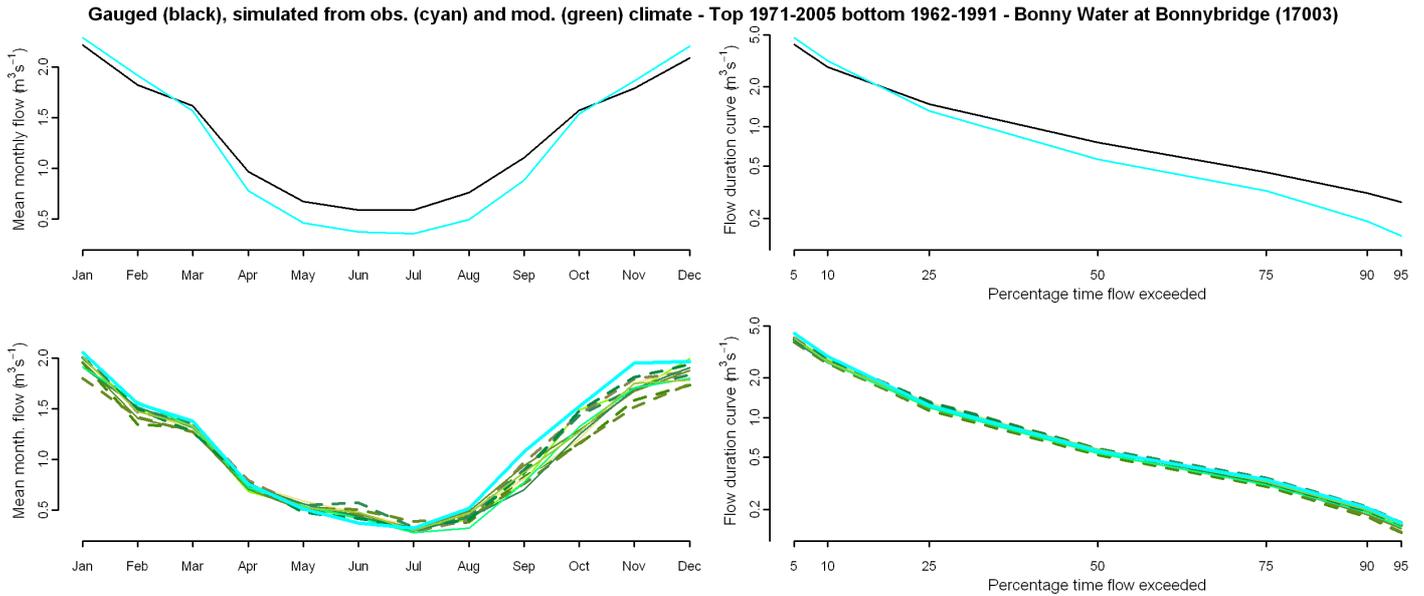
Gauged (black) and simulated (cyan) flows from observed climate - Bonny Water at Bonnybridge (17003)



Gauged (black) and simulated (cyan) flows from observed climate - Bonny Water at Bonnybridge (17003)



## 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
<b>Annual</b>	-4	-9	-5	0	-8	-10	-8	-2	-7	-4	-6
<b>January</b>	-2	-5	-3	-2	-5	-8	-9	-1	-6	-4	0
<b>April</b>	-7	-1	1	13	-5	1	3	-1	-3	4	0
<b>July</b>	0	7	4	-9	-3	2	-7	0	-14	-2	-8
<b>October</b>	-4	-20	-25	-1	-15	-22	-10	-9	-12	-2	-12
<b>Q90</b>	0	-13	-7	-1	-15	-16	-6	0	-9	-10	-5
<b>Q75</b>	-1	-10	-5	-1	-9	-11	-7	3	-9	-7	-5
<b>Q50</b>	2	-6	1	6	-1	-3	2	5	-4	3	3
<b>Q25</b>	2	-7	2	8	-5	-7	1	5	-3	4	0
<b>Q5</b>	-9	-11	-11	-7	-12	-14	-13	-9	-10	-10	-10
<b>RP2</b>	-13	-12	-14	-9	-11	-12	-10	-3	-10	-9	-9
<b>RP10</b>	-10	-8	-10	-5	-2	-7	-12	3	3	5	-1

## Climate change graphs for 2050s

