

## General Information

River Name	Blackadder Water	Catchment Area (km <sup>2</sup> )	159
Station Name	Mouth Bridge	SAAR (mm) 61-90	773
Station Number	21027	Mean Annual Rain (mm) 62-91	784
Grid Reference	NT826530	Mean Annual PE (mm) 62-91	521
EA Region	SEPA-SE	Observed flow record	1973 to 2005



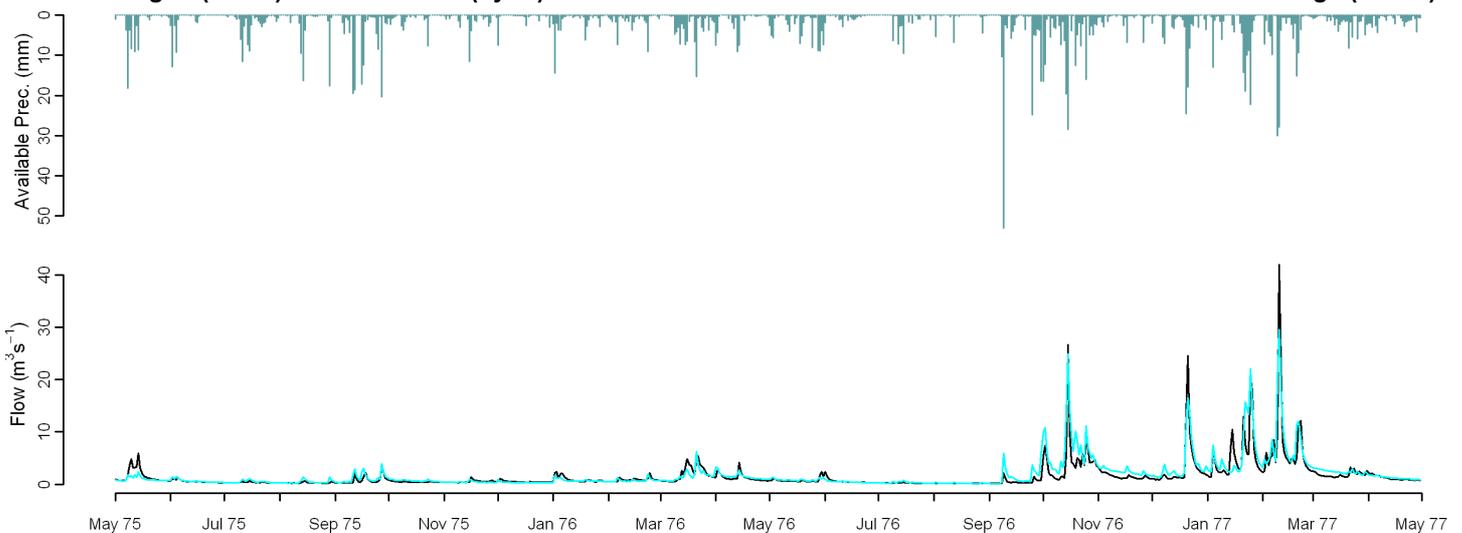
## Observed Data

## Comparison of gauged and simulated flow

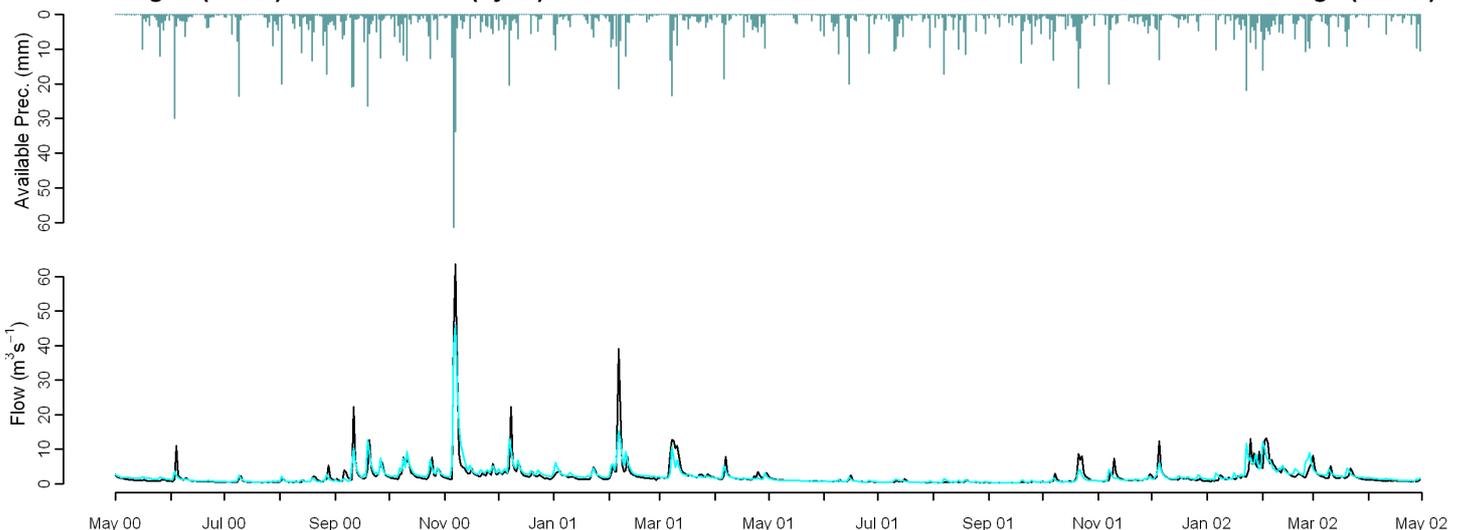
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	4.2	9.7	9.4	1.4	-1.0	-4.0	-3.8	2.0	0.2	11.0	-3.1	4.1	9.1	0.68
Performance Band	1	2	1	1	1	1	1	1	1	1	2	1	2	1
MORECS (1962-1991)	4.1	6.5	7.3	0.4	5.2	-6.4	-2.7	0.1	6.8	18.4	3.0	2.3	5.1	0.72
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	-3.6	4.8	15.6	12.4	2.7									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	-3.3	1.8	10.4	11.1	1.0									

Gauged (black) and simulated (cyan) flows from observed climate - Blackadder Water at Mouth Bridge (21027)

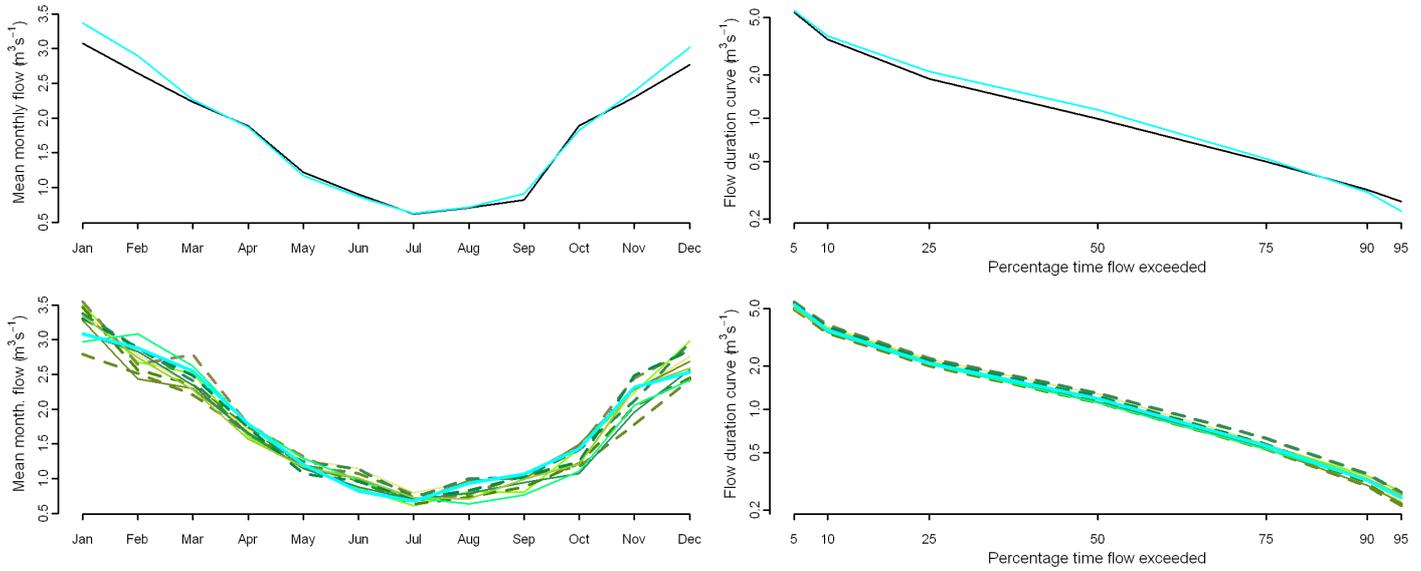


Gauged (black) and simulated (cyan) flows from observed climate - Blackadder Water at Mouth Bridge (21027)



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 - Blackadder Water at Mouth Bridge (21027)



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

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	2	-3	5	7	-2	-5	-5	6	-3	3	-4
January	15	5	10	15	6	-3	-1	11	-1	8	8
April	-10	-9	1	4	-5	-7	-6	2	2	-2	-10
July	-7	2	21	4	-2	10	5	6	6	5	8
October	1	-13	-14	6	-1	-17	-15	-4	-20	-13	-13
Q90	9	-3	-1	10	-11	-10	-1	12	-1	-3	4
Q75	1	2	3	13	-7	-7	0	15	-6	1	1
Q50	-1	-2	7	11	-2	-5	-5	11	-6	3	1
Q25	3	-3	7	10	0	-2	-1	9	-1	4	-1
Q5	2	-9	2	4	-2	-5	-5	4	-3	2	-8
RP2	-6	-8	-8	-1	-4	-15	-10	-10	-10	-2	-8
RP10	-18	-11	-13	-10	-7	-21	-23	-15	-13	-6	1

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Blackadder Water at Mouth Bridge (21027)

