

## General Information

River Name	Kent	Catchment Area (km <sup>2</sup> )	74
Station Name	Burneside	SAAR (mm) 61-90	1895
Station Number	73003	Mean Annual Rain (mm) 62-91	1878
Grid Reference	SD507956	Mean Annual PE (mm) 62-91	456
EA Region	EA-NW	Observed flow record	1981 to 1999



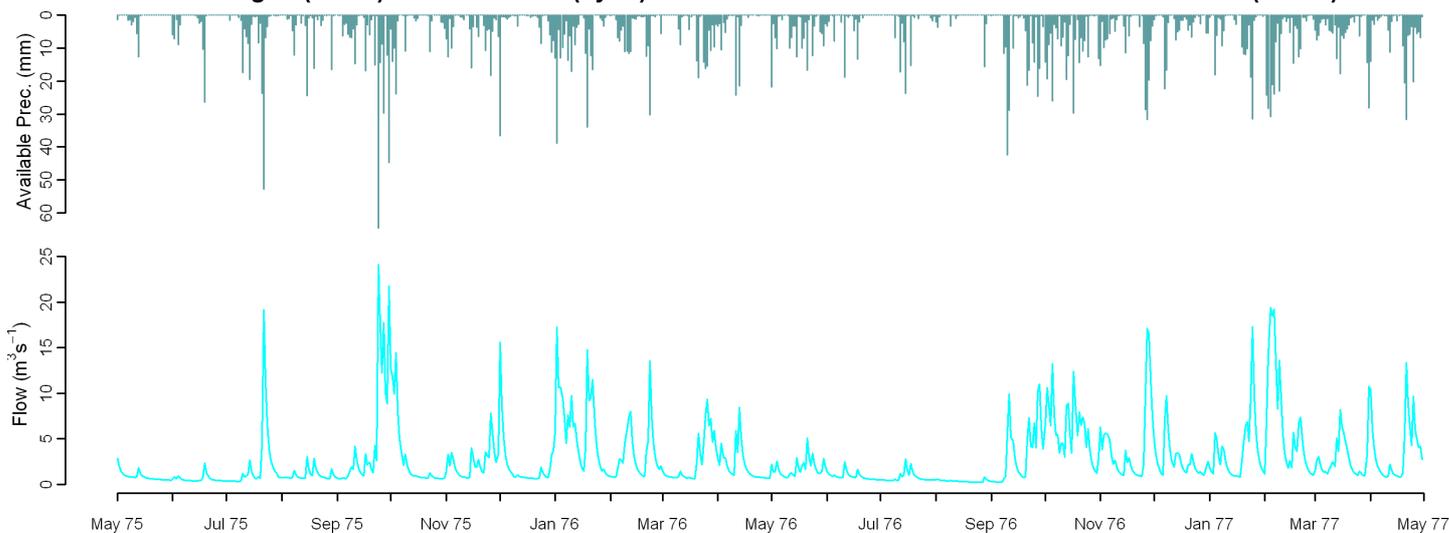
## Observed Data

## Comparison of gauged and simulated flow

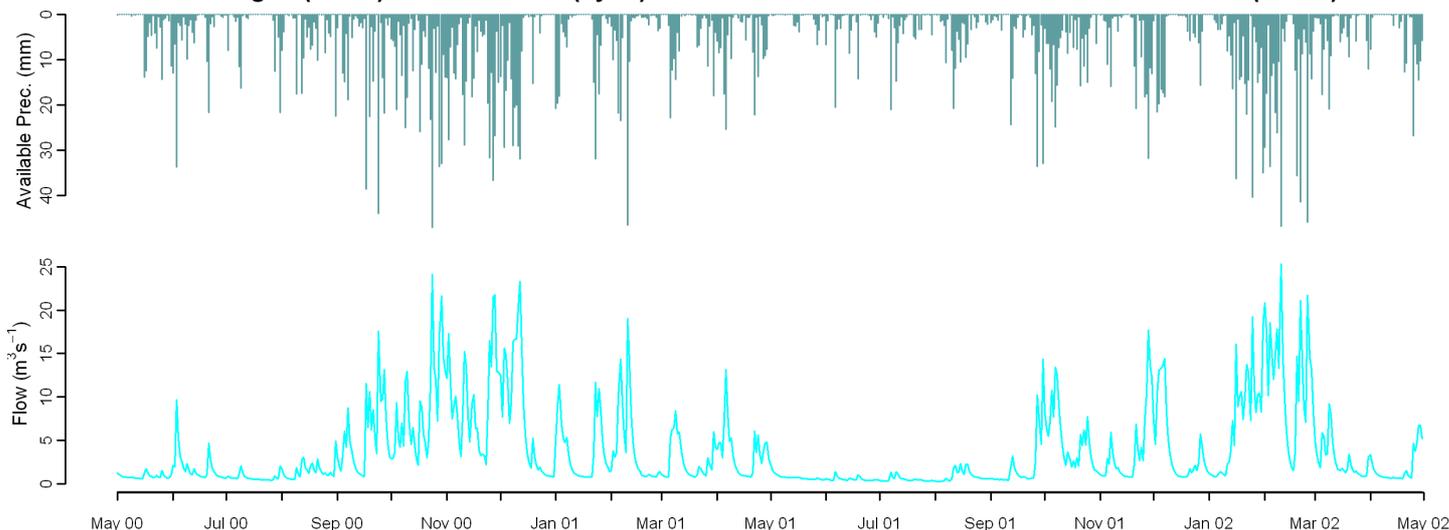
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-2.4	-2.5	-4.3	-2.2	-10.8	-4.0	-2.8	0.2	-1.8	4.5	0.2	-3.6	-3.0	0.82
Performance Band	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MORECS (1962-1991)	-0.4	-1.1	-7.4	1.4	-8.6	1.0	3.3	3.5	-0.4	8.5	-1.5	-1.1	0.2	0.83
	Q90	Q75	Q50	Q25	Q5			RP2	RP5	RP10	RP20			
MORECS (1971-2005)	21.5	-8.8	-23.5	-2.1	4.7									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	26.4	-5.7	-18.7	2.3	6.4									

Gauged (black) and simulated (cyan) flows from observed climate - Kent at Burneside (73003)

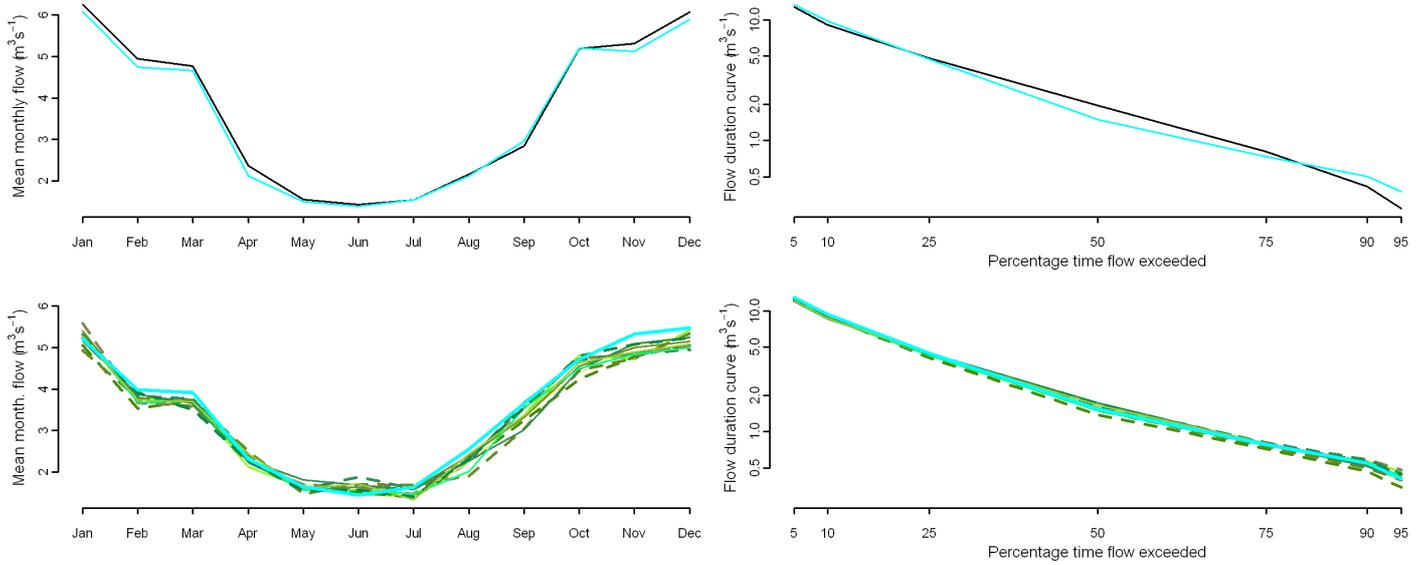


Gauged (black) and simulated (cyan) flows from observed climate - Kent at Burneside (73003)



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 - Kent at Burnside (73003)



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	1	-2	-4	-4	-1	-4	-2	-3
January	3	-1	4	4	4	0	-3	4	2	-3	7
April	-7	1	-2	3	0	6	1	0	-6	-1	1
July	-12	-10	-4	-3	-2	1	-4	-2	-12	-17	-18
October	4	-2	-9	4	-3	-3	5	-2	-3	4	-1
Q90	4	-15	-7	8	-6	-10	-8	5	-2	-1	-1
Q75	1	-8	-2	3	-3	-5	0	3	-2	0	2
Q50	5	-9	0	5	1	-3	11	7	-3	8	6
Q25	-3	-8	-1	-2	-4	-4	0	0	-5	-3	-1
Q5	-8	-3	-6	-3	-4	-6	-8	-3	-5	-6	-7
RP2	-4	-3	-4	-1	-3	-5	-6	-5	0	1	-4
RP10	-5	-7	-6	-1	-6	-9	-8	-8	-7	-4	-8

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Kent at Burnside (73003)

