

## General Information

River Name	Chater	Catchment Area (km <sup>2</sup> )	69
Station Name	Fosters Bridge	SAAR (mm) 61-90	640
Station Number	31010	Mean Annual Rain (mm) 62-91	644
Grid Reference	SK961030	Mean Annual PE (mm) 62-91	593
EA Region	EA-A	Observed flow record	1968 to 2005



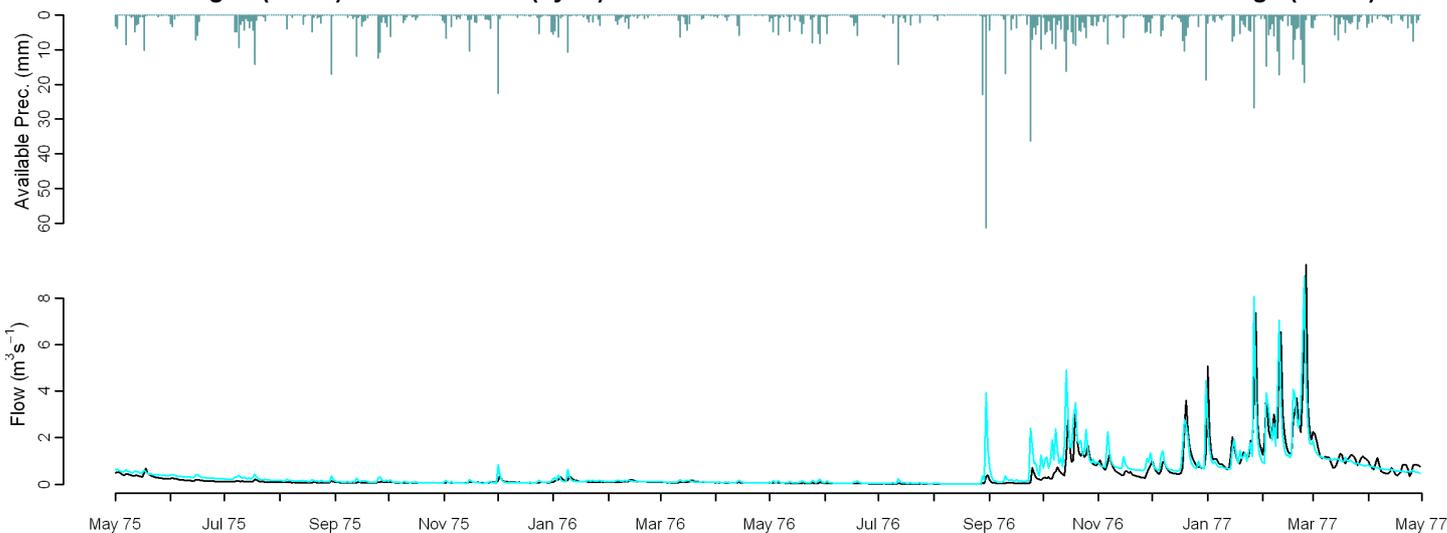
## Observed Data

## Comparison of gauged and simulated flow

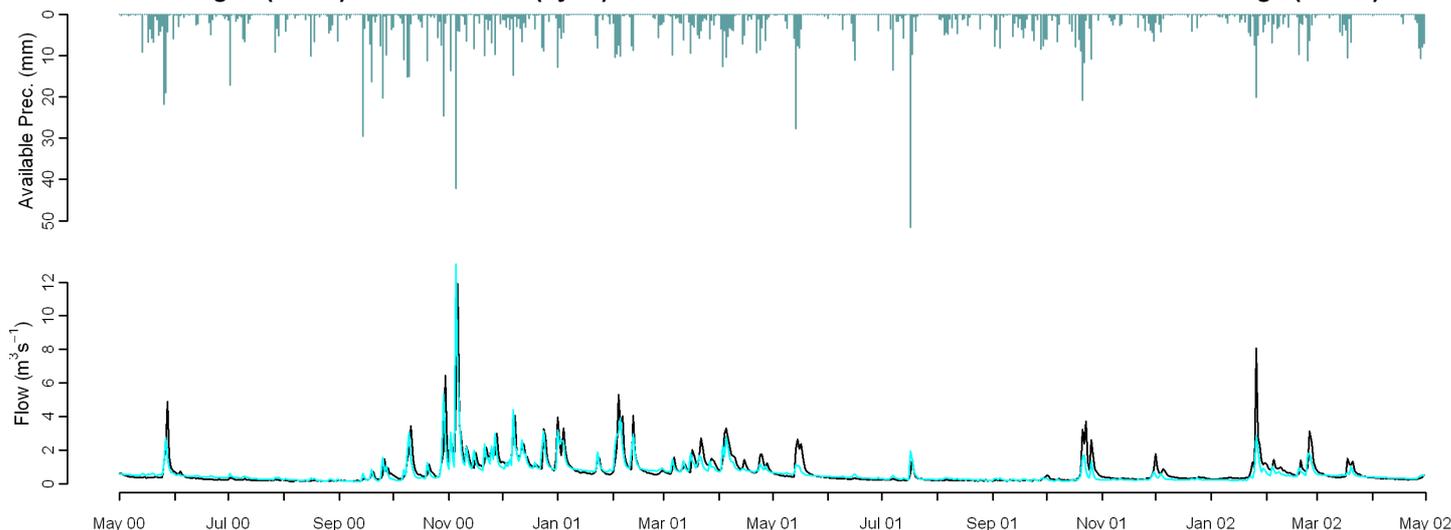
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-11.4	-16.5	-8.7	-13.1	-14.2	0.1	5.9	25.3	15.5	7.8	-21.4	-18.1	-21.1	0.62
Performance Band	2	2	1	1	2	1	2	2	2	1	2	2	2	2
MORECS (1962-1991)	-9.8	-21.3	-10.7	-13.3	-10.1	-7.6	11.1	26.5	27.3	18.7	-6.3	-15.5	-24.3	0.60
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	23.1	16.6	12.9	-11.0	-21.9									
Performance Band	1	1	2	2	2									
MORECS (1962-1991)	40.9	30.8	17.8	-10.7	-21.9									

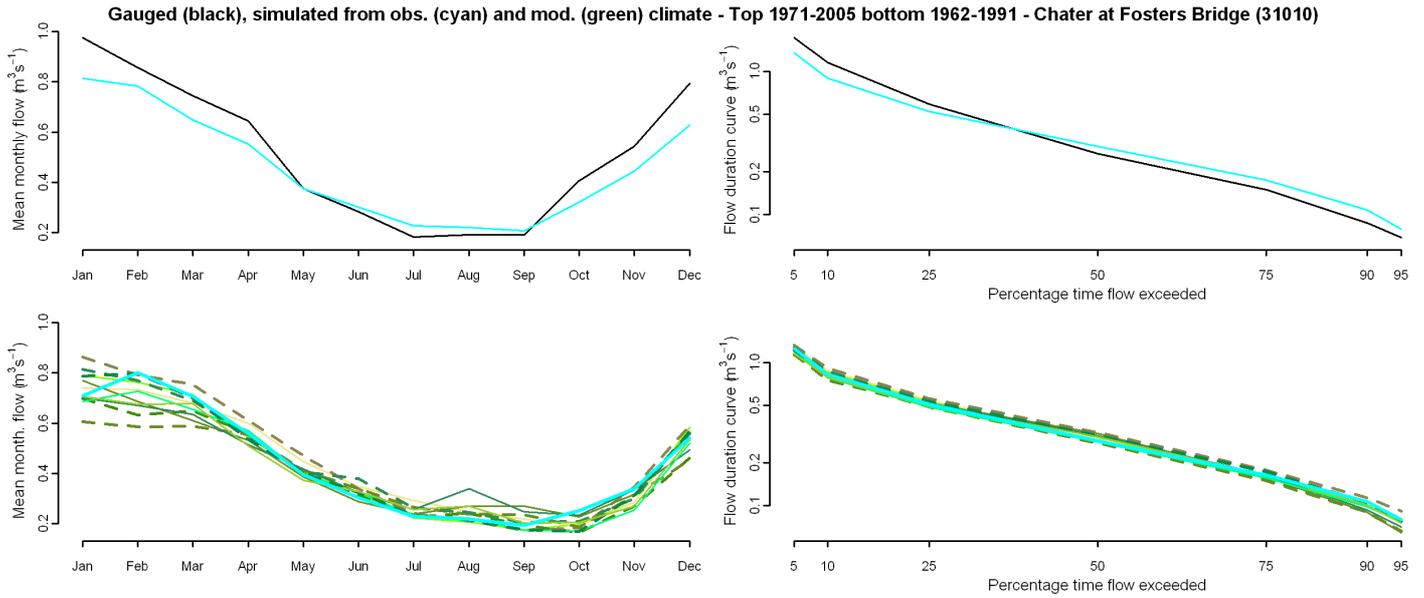
Gauged (black) and simulated (cyan) flows from observed climate - Chater at Fosters Bridge (31010)



Gauged (black) and simulated (cyan) flows from observed climate - Chater at Fosters Bridge (31010)



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	1	-9	4	8	-2	-8	-2	5	-6	0	-7
January	12	-8	8	21	9	-13	-6	17	0	9	-2
April	0	-6	13	13	-4	-4	-7	3	4	-3	-8
July	1	0	32	7	1	14	15	19	4	3	11
October	-19	-33	-22	-17	-18	-21	-5	-11	-30	-31	-23
Q90	-6	-17	-4	5	-19	-16	-14	0	-7	-4	-6
Q75	1	-7	1	9	-6	-8	-1	8	-3	7	0
Q50	6	-1	8	16	7	-4	8	13	-2	8	5
Q25	4	-6	7	10	-2	-6	0	8	-4	3	-5
Q5	-1	-12	5	6	-7	-11	-8	6	-6	-3	-11
RP2	-1	-11	-1	9	5	5	7	7	2	9	-6
RP10	7	-1	18	18	39	22	38	21	22	13	12

Climate change graphs for 2050s

