

## General Information

River Name	Conder	Catchment Area (km <sup>2</sup> )	29
Station Name	Galgate	SAAR (mm) 61-90	1193
Station Number	72014	Mean Annual Rain (mm) 62-91	1181
Grid Reference	SD481554	Mean Annual PE (mm) 62-91	540
EA Region	EA-NW	Observed flow record	1976 to 2005



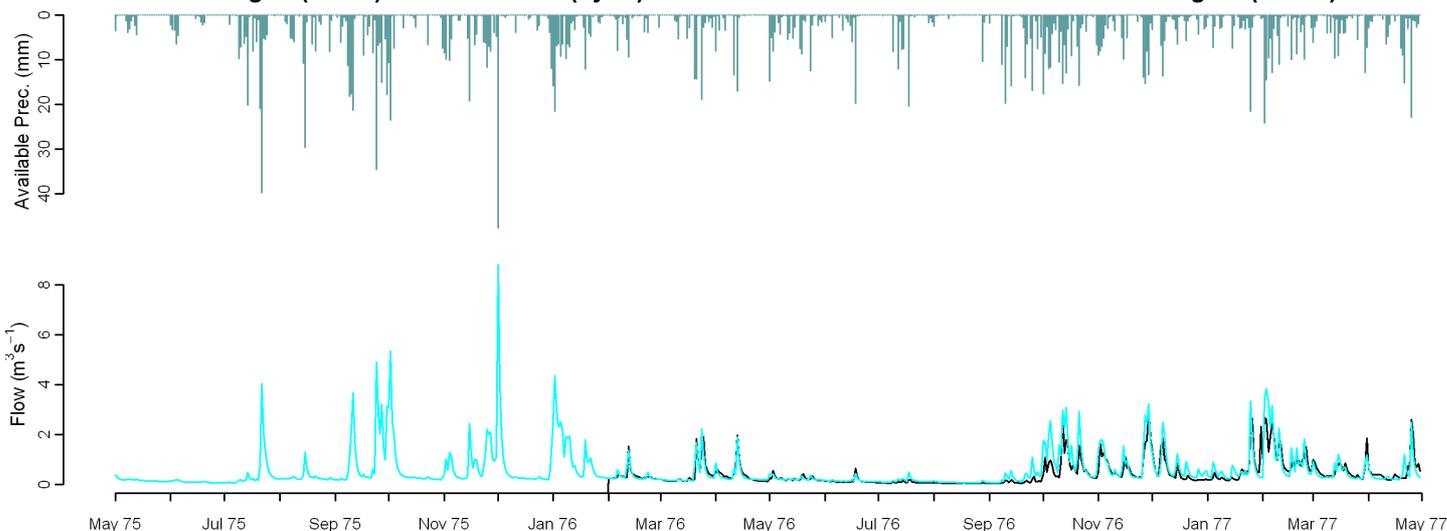
## Observed Data

## Comparison of gauged and simulated flow

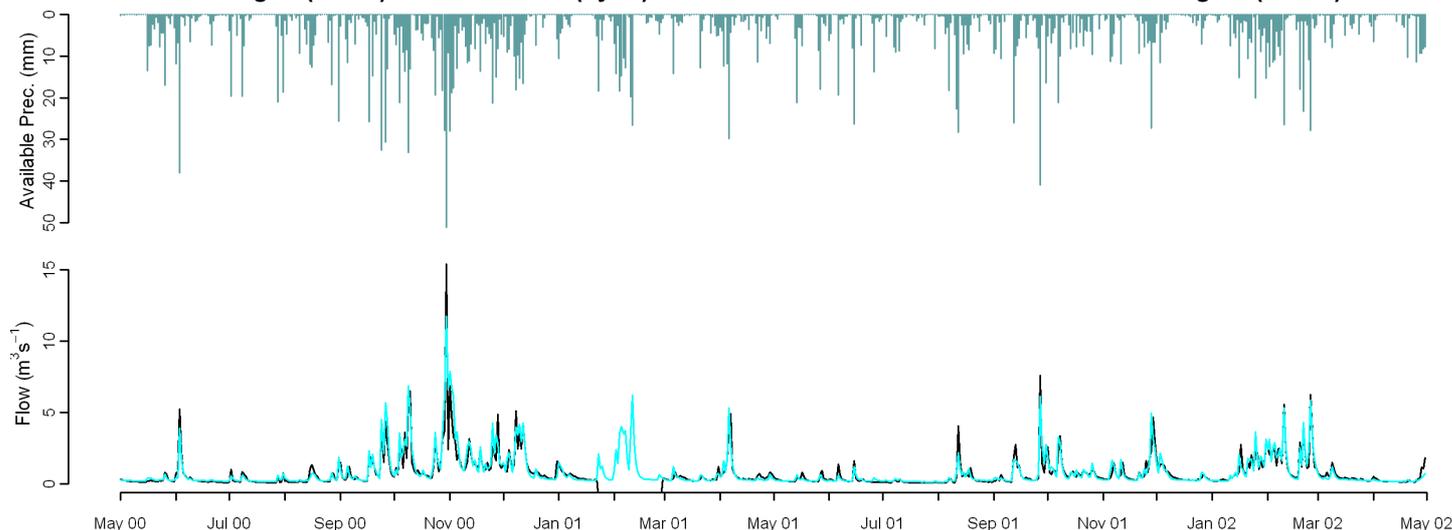
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	0.8	0.1	-0.1	-6.6	-11.7	-10.0	-4.5	8.1	-4.7	5.9	7.8	6.0	3.6	0.82
Performance Band	1	1	1	1	2	2	2	2	1	1	1	1	1	1
MORECS (1962-1991)	-0.6	-1.6	-0.7	-3.9	-10.0	-13.9	-9.5	-2.0	-7.1	4.0	6.2	6.3	3.6	0.82
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	57.7	28.7	-11.8	-6.8	5.8									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	46.5	24.3	-15.0	-5.9	4.3									

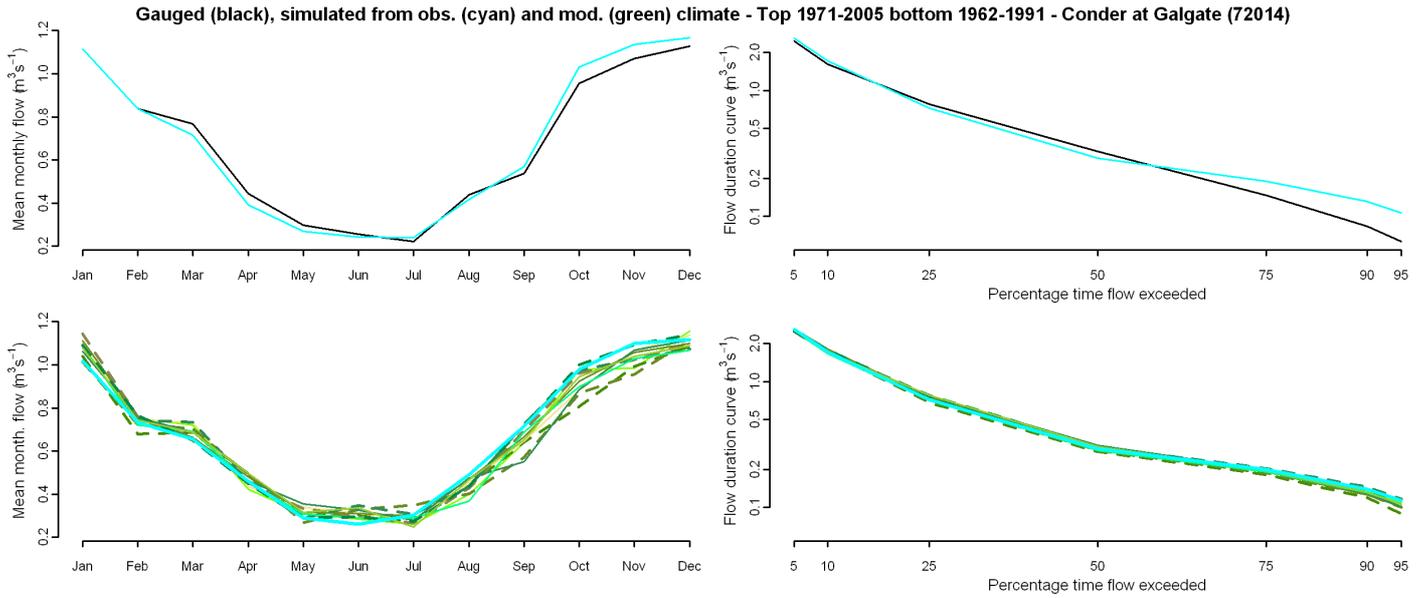
Gauged (black) and simulated (cyan) flows from observed climate - Conder at Galgate (72014)



Gauged (black) and simulated (cyan) flows from observed climate - Conder at Galgate (72014)



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	0	-3	2	4	2	-2	-1	3	0	2	1
January	8	3	9	10	11	5	2	10	8	3	11
April	-7	4	-6	6	3	6	4	2	-7	-2	4
July	-12	1	1	-5	-1	14	-6	1	-8	-10	-19
October	2	-9	-12	4	-7	-9	1	-2	-6	3	-1
Q90	-4	-14	-8	2	-12	-9	-9	4	-5	-4	-4
Q75	-3	-9	-4	-2	-6	-8	-2	3	-5	-2	-3
Q50	1	-6	0	1	0	-3	5	4	-3	2	3
Q25	5	-4	7	8	5	2	7	9	0	7	9
Q5	-3	1	1	2	1	-3	-4	1	-2	-2	-1
RP2	2	2	-3	3	4	1	1	2	10	10	-1
RP10	1	-5	-6	1	3	-3	-2	-7	-1	5	-7

Climate change graphs for 2050s

