

## General Information

River Name	Exe	Catchment Area (km <sup>2</sup> )	160
Station Name	Pixton	SAAR (mm) 61-90	1379
Station Number	45009	Mean Annual Rain (mm) 62-91	1401
Grid Reference	SS935260	Mean Annual PE (mm) 62-91	577
EA Region	EA-SW	Observed flow record	1966 to 2005



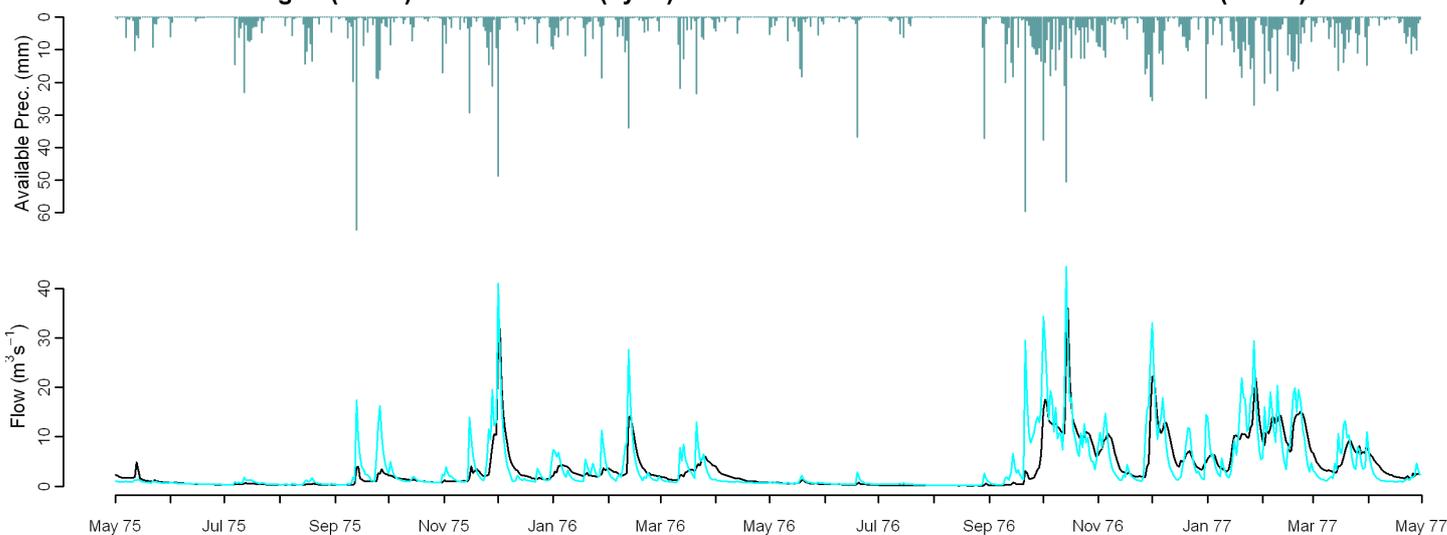
## Observed Data

## Comparison of gauged and simulated flow

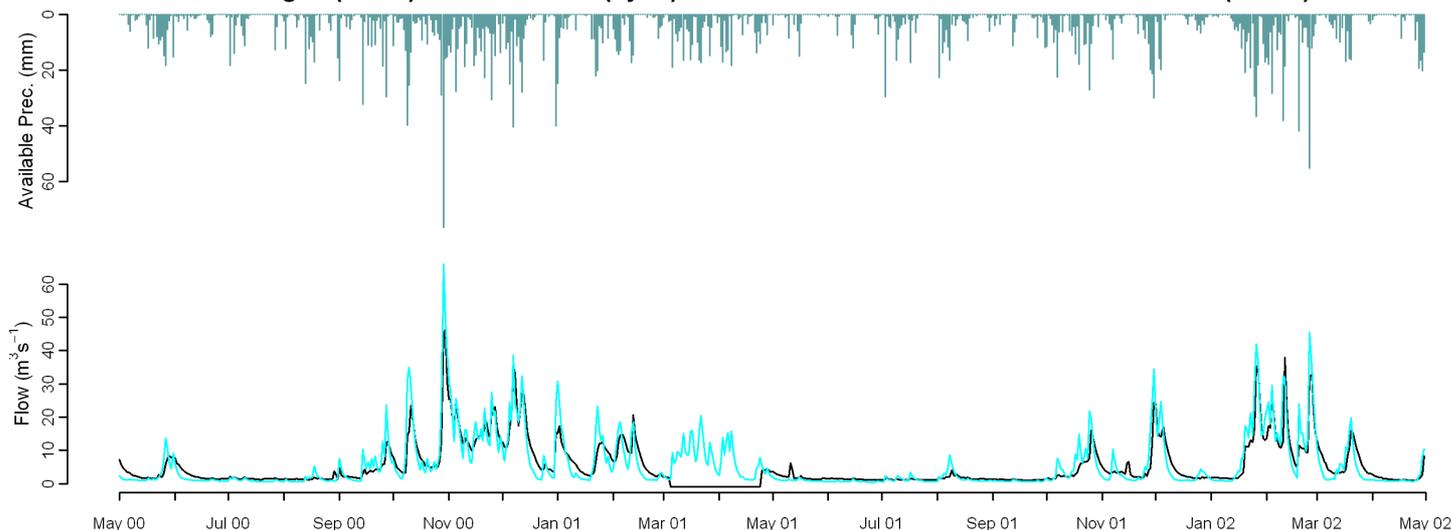
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	2.1	0.9	-2.4	-9.0	-18.6	-25.0	-19.6	-8.5	15.1	32.2	23.5	10.3	6.5	0.60
Performance Band	1	1	1	1	2	2	2	1	2	3	2	1	1	2
MORECS (1962-1991)	1.0	2.0	-4.9	-8.6	-26.9	-24.8	-16.3	-3.9	17.2	36.7	18.0	8.7	6.6	0.55
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	-29.3	-28.1	-35.8	-0.5	25.3									
Performance Band	1	1	1	2	2									
MORECS (1962-1991)	-18.1	-25.2	-39.4	-0.5	24.1									

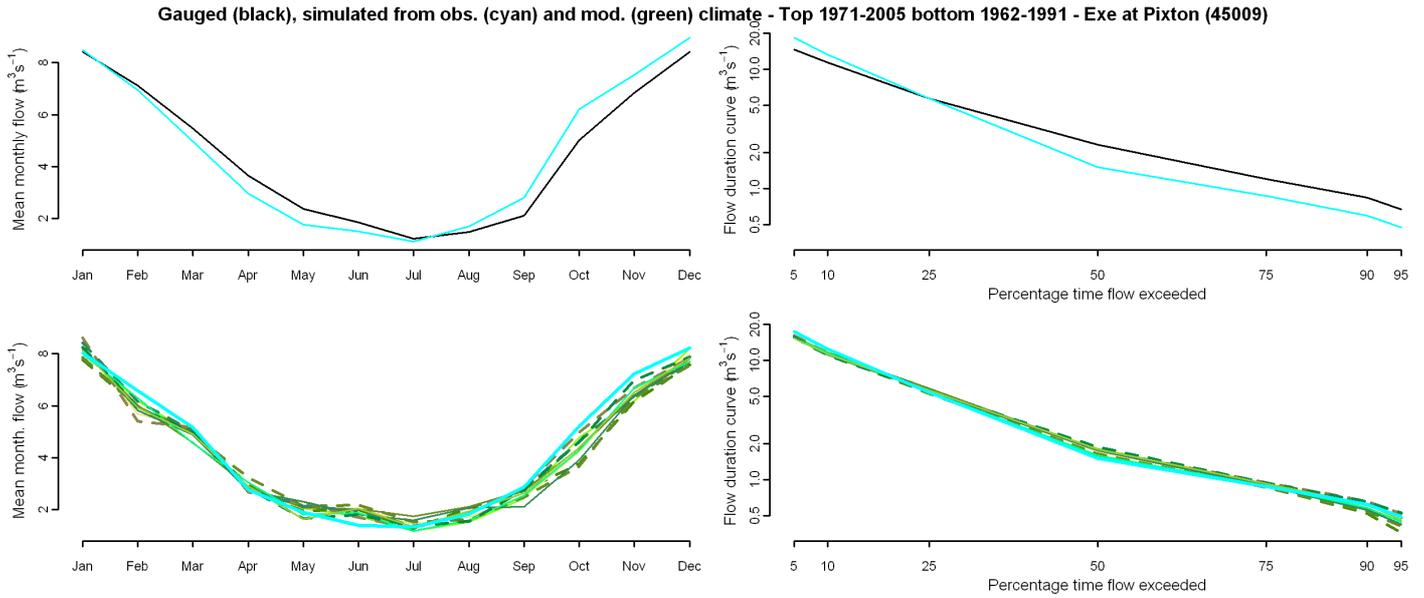
Gauged (black) and simulated (cyan) flows from observed climate - Exe at Pixton (45009)



Gauged (black) and simulated (cyan) flows from observed climate - Exe at Pixton (45009)



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	-3	-5	-4	-1	-2	-4	-5	-1	-6	-5	-4
January	1	-4	8	6	4	0	2	8	0	-1	3
April	4	1	7	2	6	17	2	1	7	0	9
July	-10	2	7	-2	24	19	22	10	-6	1	0
October	-9	-23	-20	-1	-19	-26	-20	-13	-16	-12	-16
Q90	0	-17	-10	6	-11	-13	-10	4	-9	1	-1
Q75	6	-2	1	9	0	-3	1	6	1	5	5
Q50	22	7	13	19	15	9	18	20	5	22	18
Q25	4	-3	3	6	5	1	2	8	0	1	3
Q5	-12	-9	-8	-8	-10	-10	-11	-9	-11	-12	-12
RP2	-6	-8	-7	-4	-7	-2	-4	-7	-3	-5	-6
RP10	-5	-9	-11	-1	-3	4	-3	-5	-3	3	0

Climate change graphs for 2050s

