

## General Information

River Name	Black Brook	Catchment Area (km <sup>2</sup> )	8
Station Name	Onebarrow	SAAR (mm) 61-90	733
Station Number	28030	Mean Annual Rain (mm) 62-91	742
Grid Reference	SK466171	Mean Annual PE (mm) 62-91	611
EA Region	EA-M	Observed flow record	1967 to 1984



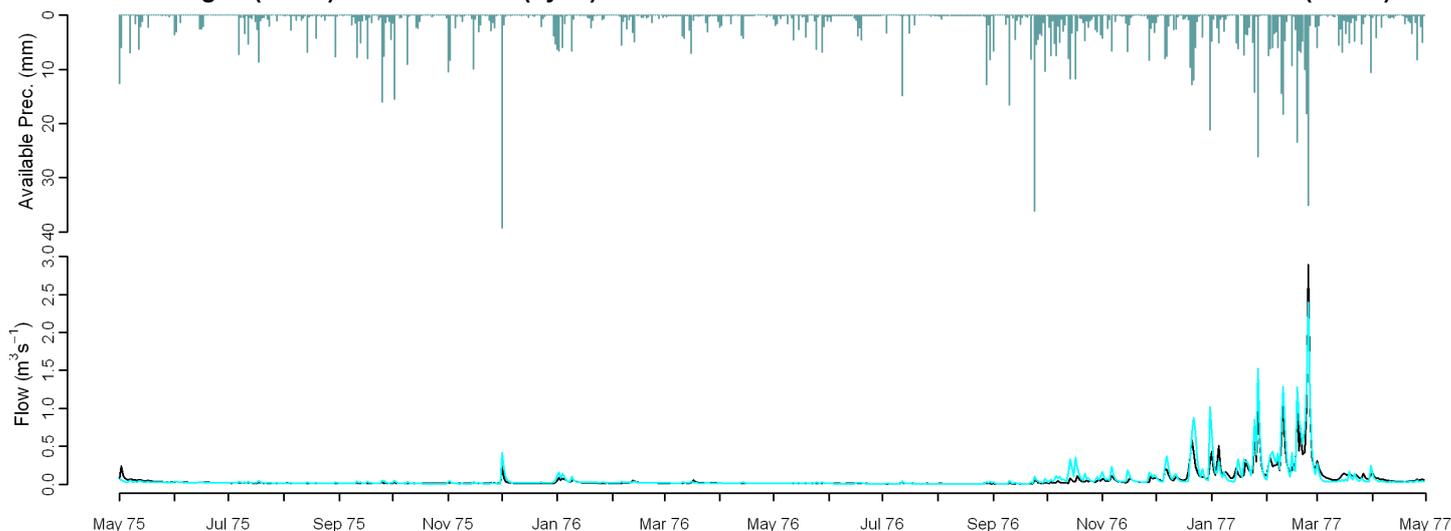
## Observed Data

## Comparison of gauged and simulated flow

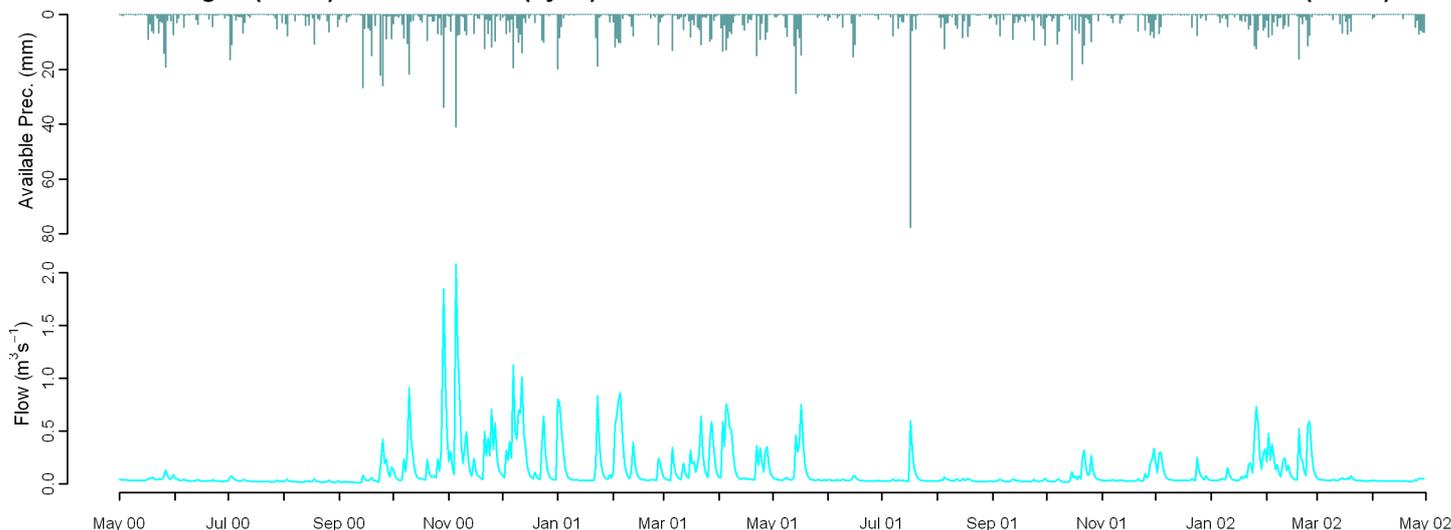
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-11.7	6.3	8.1	-12.8	-31.4	-34.2	-40.3	-17.8	-18.1	-2.3	-15.0	-22.8	-13.4	0.65
Performance Band	2	1	1	1	3	2	3	2	2	3	2	2	2	2
MORECS (1962-1991)	-12.5	4.4	8.6	-8.8	-32.2	-39.2	-37.8	-20.4	-16.4	-34.2	-16.3	-14.6	-12.2	0.56
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	-11.1	-6.9	-27.0	-39.8	2.3									
Performance Band	2	1	1	1	1									
MORECS (1962-1991)	-7.9	1.2	-24.2	-38.8	5.7									

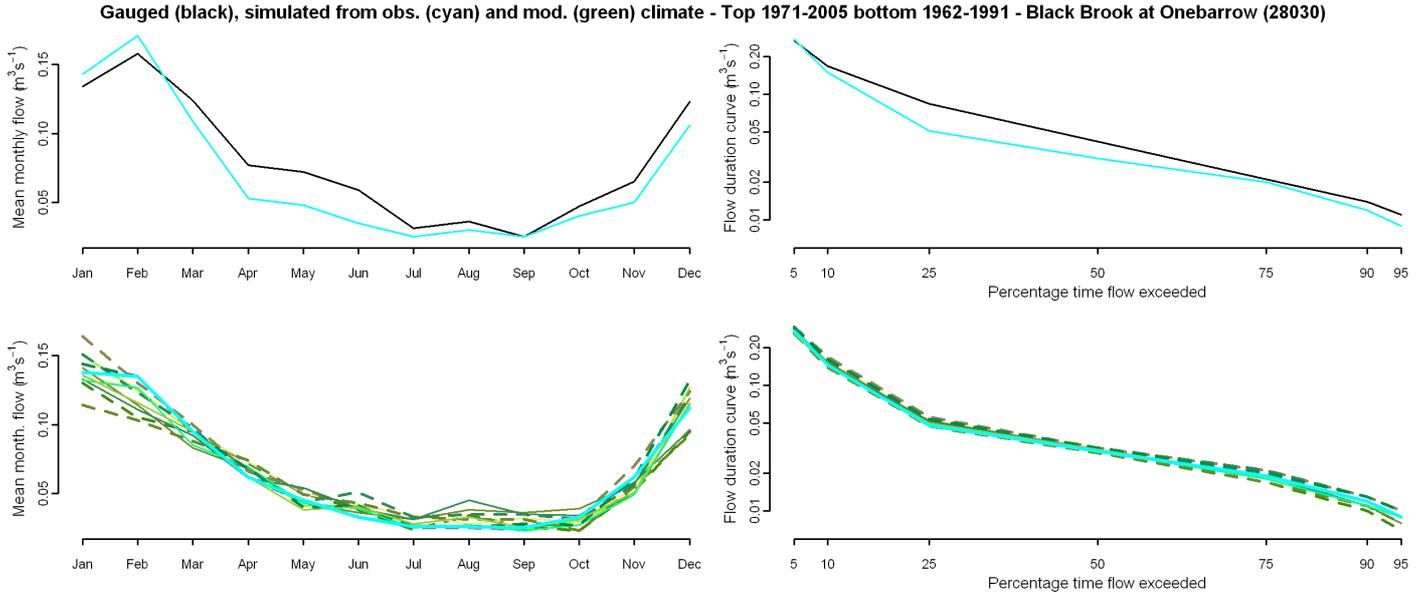
Gauged (black) and simulated (cyan) flows from observed climate - Black Brook at Onebarrow (28030)



Gauged (black) and simulated (cyan) flows from observed climate - Black Brook at Onebarrow (28030)



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	5	9	1	-5	-1	8	-5	3	-4
January	12	-11	3	16	2	-14	-6	11	-3	2	-3
April	10	6	22	10	7	19	0	1	13	7	3
July	4	-3	37	-2	16	27	23	30	-1	1	7
October	-8	-30	-12	5	9	-27	4	-1	-22	-19	-9
Q90	0	-14	0	6	-9	-12	-5	5	-5	4	-3
Q75	0	-10	1	8	-5	-10	-1	10	-4	5	-1
Q50	2	-1	4	6	2	-3	4	6	-2	4	2
Q25	9	-2	12	17	5	-3	8	14	-2	12	2
Q5	1	-6	5	7	-1	-6	-4	12	-3	0	-7
RP2	-3	-8	-5	7	6	-6	9	9	-5	0	-10
RP10	-6	6	-2	13	6	-4	11	10	4	7	-5

Climate change graphs for 2050s

