

## General Information

River Name	Avon	Catchment Area (km2)	1706
Station Name	Knapp Mill	SAAR (mm) 61-90	809
Station Number	43021	Mean Annual Rain (mm) 62-91	818
Grid Reference	SZ156943	Mean Annual PE (mm) 62-91	593
EA Region	EA-SW	Observed flow record	1975 to 2005



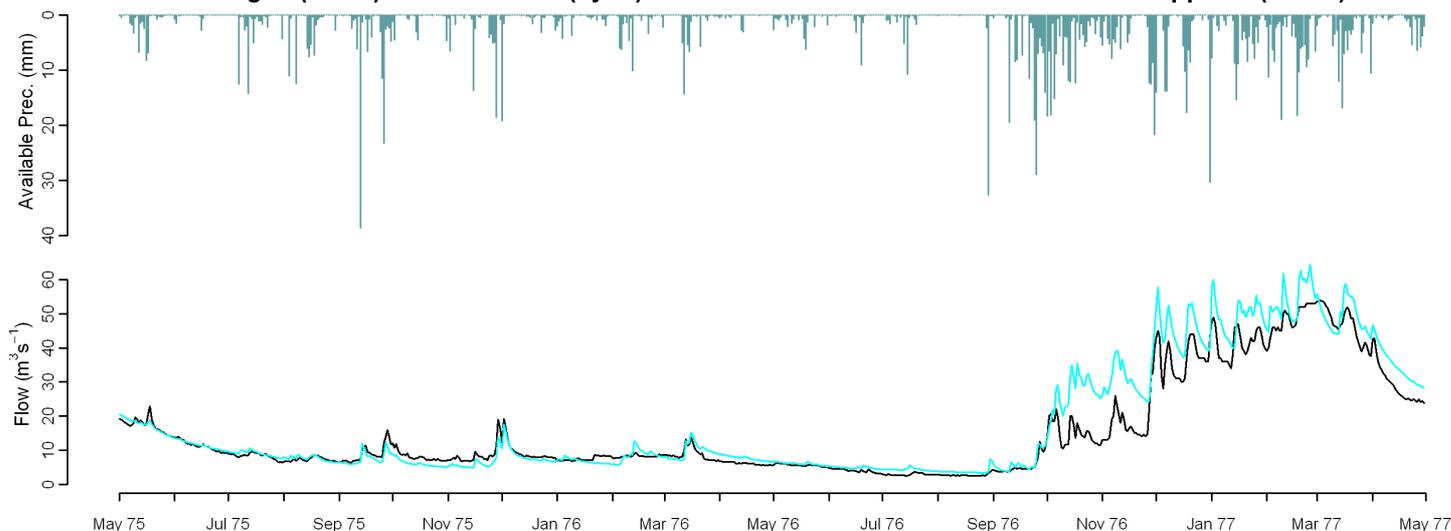
## Observed Data

## Comparison of gauged and simulated flow

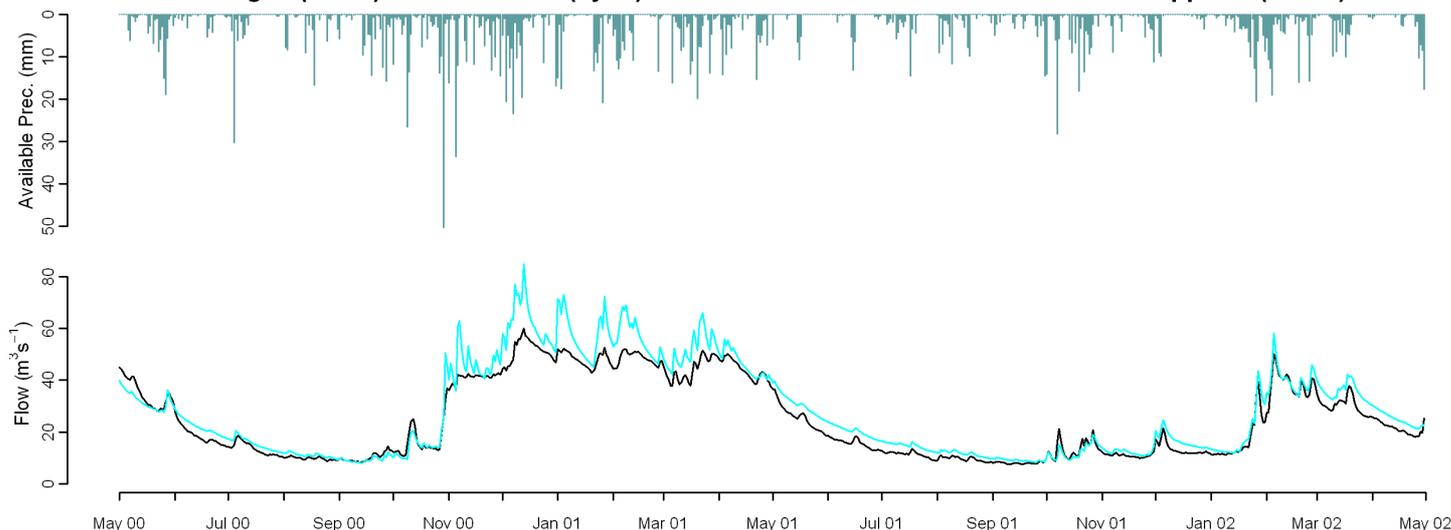
## Model used: CLASSIC

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	2.4	4.2	2.7	5.6	4.7	1.8	2.0	0.5	-3.5	-10.5	-7.6	4.2	8.0	0.92
Performance Band	1	1	1	1	1	1	1	1	1	2	1	1	1	1
FAO (1962-1991)	2.6	7.4	1.7	4.6	4.7	2.8	4.2	2.7	-3.1	-11.4	-6.1	6.0	7.4	0.91
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-11.1	-6.0	1.6	6.1	-0.1	13.6	19.8	23.3	26.1					
Performance Band	1	1	1	1	1									
FAO (1962-1991)	-13.2	-6.3	-2.0	6.6	-0.8	4.3	7.0	9.1	11.4					

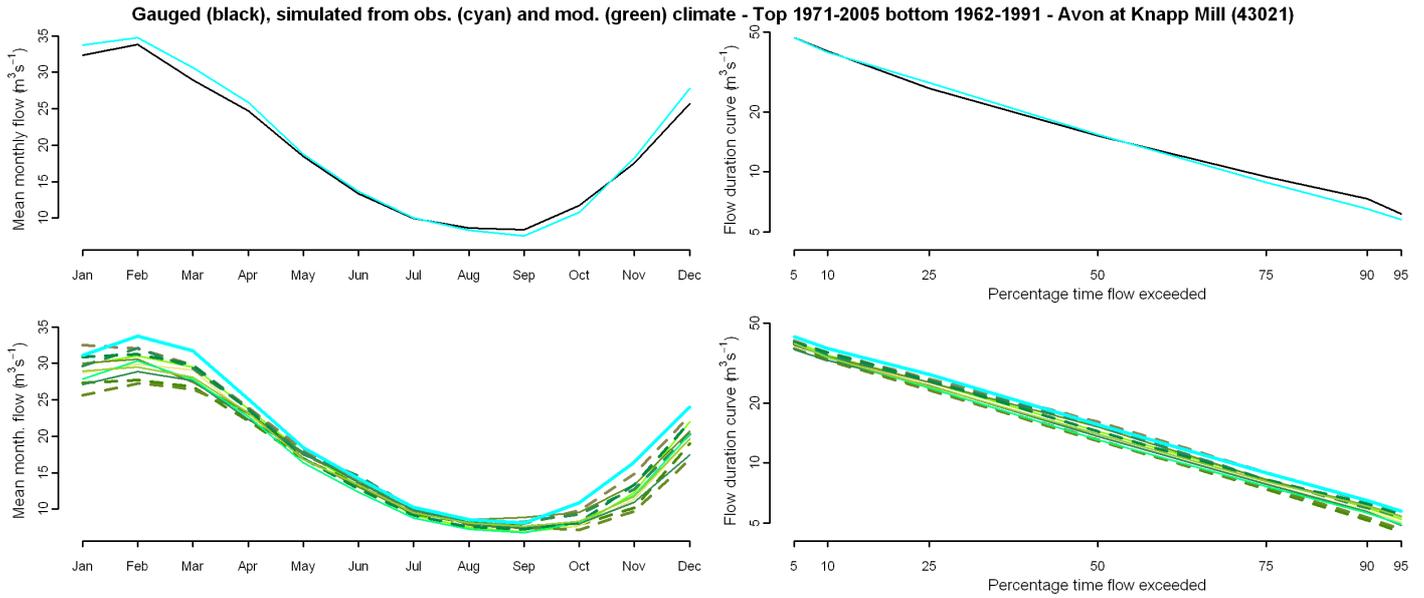
Gauged (black) and simulated (cyan) flows from observed climate - Avon at Knapp Mill (43021)



Gauged (black) and simulated (cyan) flows from observed climate - Avon at Knapp Mill (43021)



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	-7	-15	-10	-1	-9	-16	-13	-4	-12	-7	-10
January	-2	-13	-9	5	-1	-17	-13	-2	-10	-1	-5
April	-5	-12	-5	-1	-6	-7	-9	-1	-7	-4	-6
July	-4	-7	1	-1	-8	1	-3	1	-11	-9	-7
October	-26	-26	-27	-6	-18	-33	-24	-10	-25	-23	-21
Q90	-8	-20	-10	2	-7	-18	-12	-7	-13	-5	-6
Q75	-7	-18	-12	2	-10	-17	-13	-6	-14	-8	-9
Q50	-7	-17	-12	5	-6	-18	-13	0	-17	-8	-11
Q25	-9	-17	-11	-4	-10	-18	-13	-5	-14	-7	-13
Q5	-6	-10	-7	-4	-10	-13	-14	-5	-6	-6	-8
RP2	-4	-6	-7	-1	-10	-12	-12	-6	-5	-4	-7
RP10	3	0	0	-2	-3	-6	-13	-3	-2	2	-2

Climate change graphs for 2050s

