

## General Information

River Name	Avon	Catchment Area (km <sup>2</sup> )	324
Station Name	Amesbury	SAAR (mm) 61-90	744
Station Number	43005	Mean Annual Rain (mm) 62-91	751
Grid Reference	SU151413	Mean Annual PE (mm) 62-91	595
EA Region	EA-SW	Observed flow record	1965 to 2005



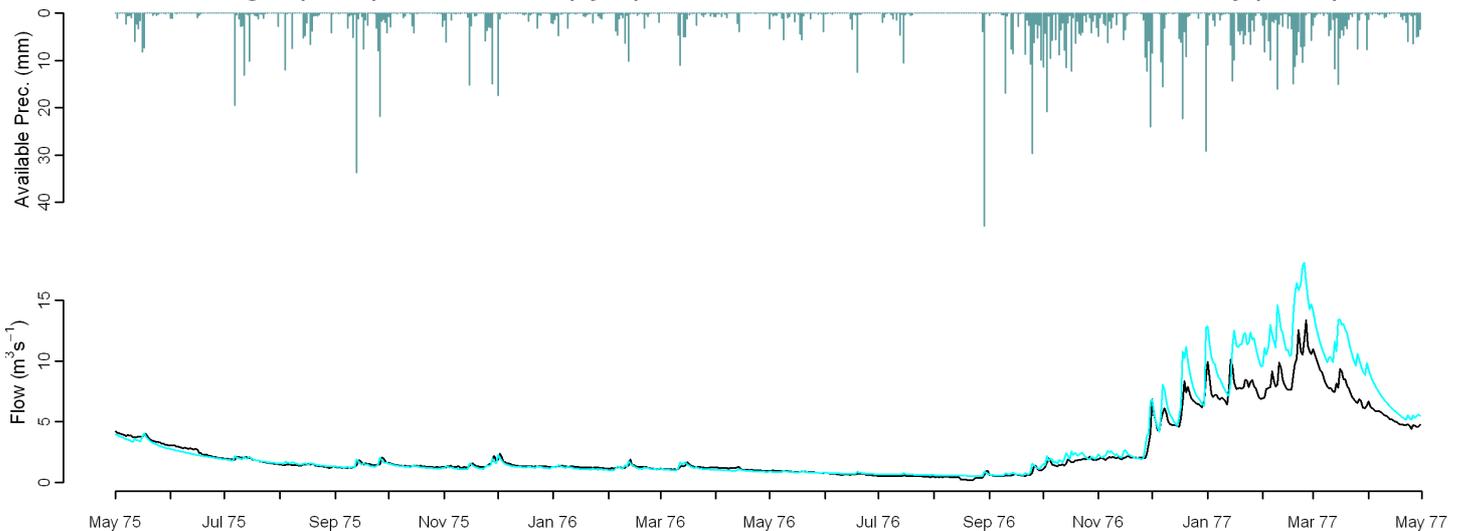
## Observed Data

## Comparison of gauged and simulated flow

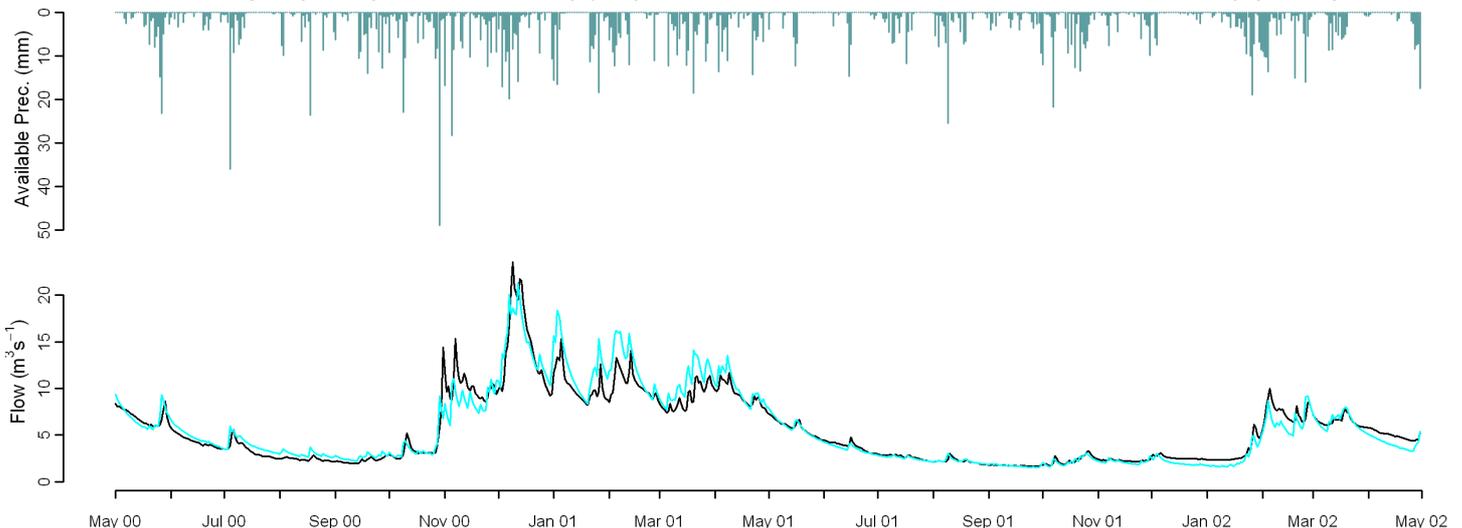
## Model used: PDM

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	1.2	-2.8	0.3	1.9	-1.9	-2.4	5.3	12.8	18.3	15.7	7.0	-2.4	-5.9	0.91
Performance Band	1	1	1	1	1	1	1	2	2	2	1	1	1	1
FAO (1962-1991)	6.5	4.5	6.0	6.4	0.3	3.2	10.6	15.4	19.7	18.7	11.8	3.6	-0.6	0.86
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	8.0	7.4	-0.7	-6.6	6.9	7.7	10.4	6.5	-0.3					
Performance Band	1	1	1	1	1									
FAO (1962-1991)	8.8	9.6	2.4	-0.9	14.5	17.8	21.3	18.6	13.3					

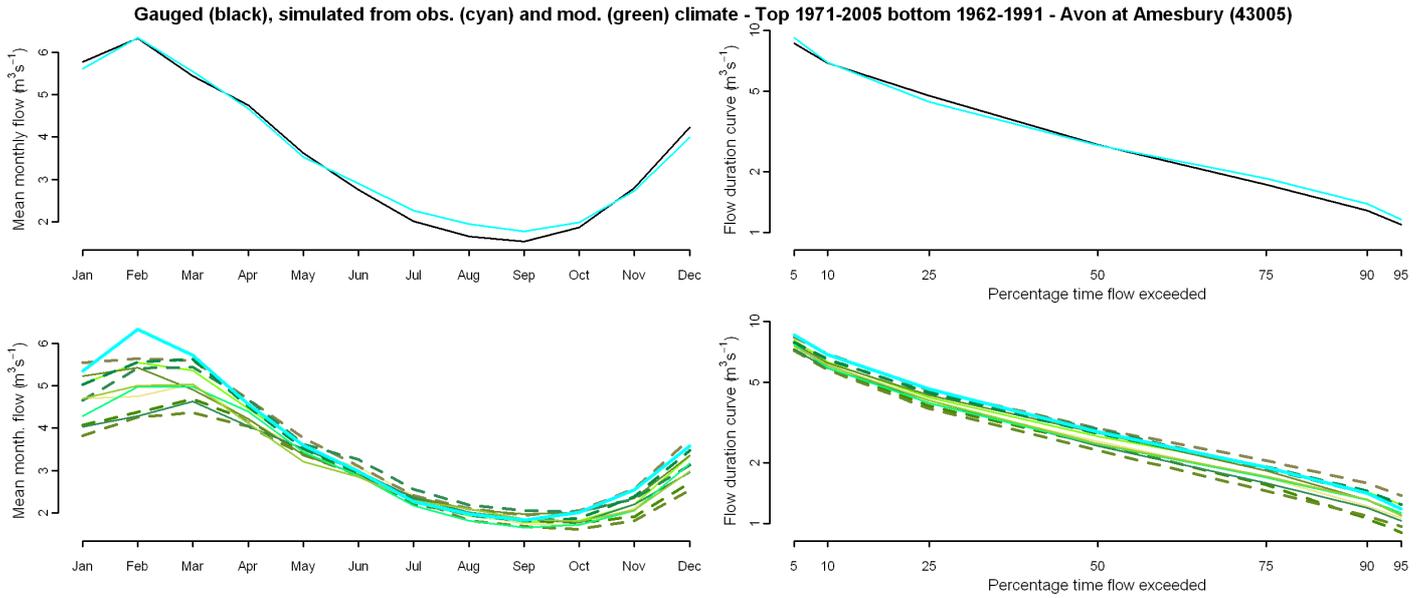
Gauged (black) and simulated (cyan) flows from observed climate - Avon at Amesbury (43005)



Gauged (black) and simulated (cyan) flows from observed climate - Avon at Amesbury (43005)



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	-6	-16	-9	3	-8	-20	-14	-3	-11	-5	-11
January	-5	-21	-8	9	0	-26	-22	-9	-15	-3	-9
April	-5	-14	-6	5	-9	-13	-12	2	-5	-2	-10
July	2	-3	7	7	2	-1	3	11	-3	0	-1
October	-7	-13	-15	3	-9	-22	-13	-1	-13	-9	-11
Q90	1	-26	-14	11	-10	-25	-16	-1	-8	-1	-9
Q75	0	-19	-11	9	-7	-26	-17	-3	-11	-2	-11
Q50	-5	-14	-10	6	-4	-21	-15	3	-12	-2	-13
Q25	-10	-19	-13	1	-10	-22	-13	-3	-13	-6	-13
Q5	-6	-15	-4	1	-9	-16	-13	-6	-8	-6	-11
RP2	-9	-17	-12	-2	-17	-24	-17	-9	-10	-8	-17
RP10	3	-1	8	-3	-5	-13	-11	-5	-2	-1	-4

Climate change graphs for 2050s

