

General Information

River Name	Avon	Catchment Area (km2)	195
Station Name	Polmonthill	SAAR (mm) 61-90	991
Station Number	17005	Mean Annual Rain (mm) 62-91	1001
Grid Reference	NS952797	Mean Annual PE (mm) 62-91	510
EA Region	SEPA-SE	Observed flow record	1965 to 2005



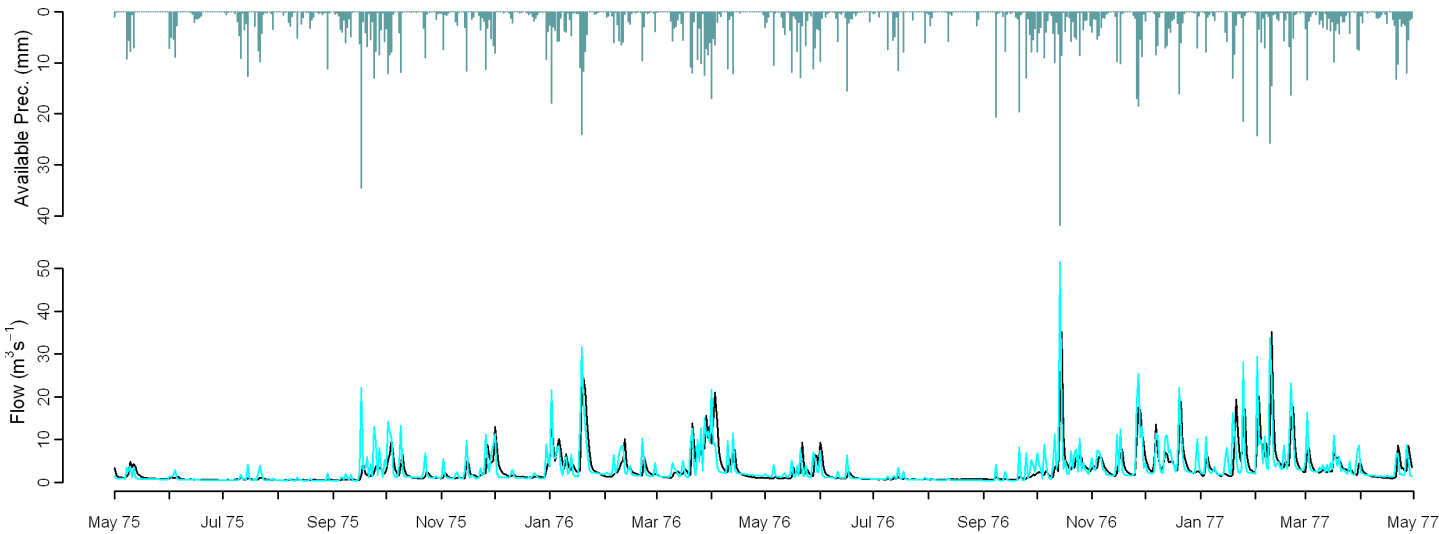
Observed Data

Comparison of gauged and simulated flow

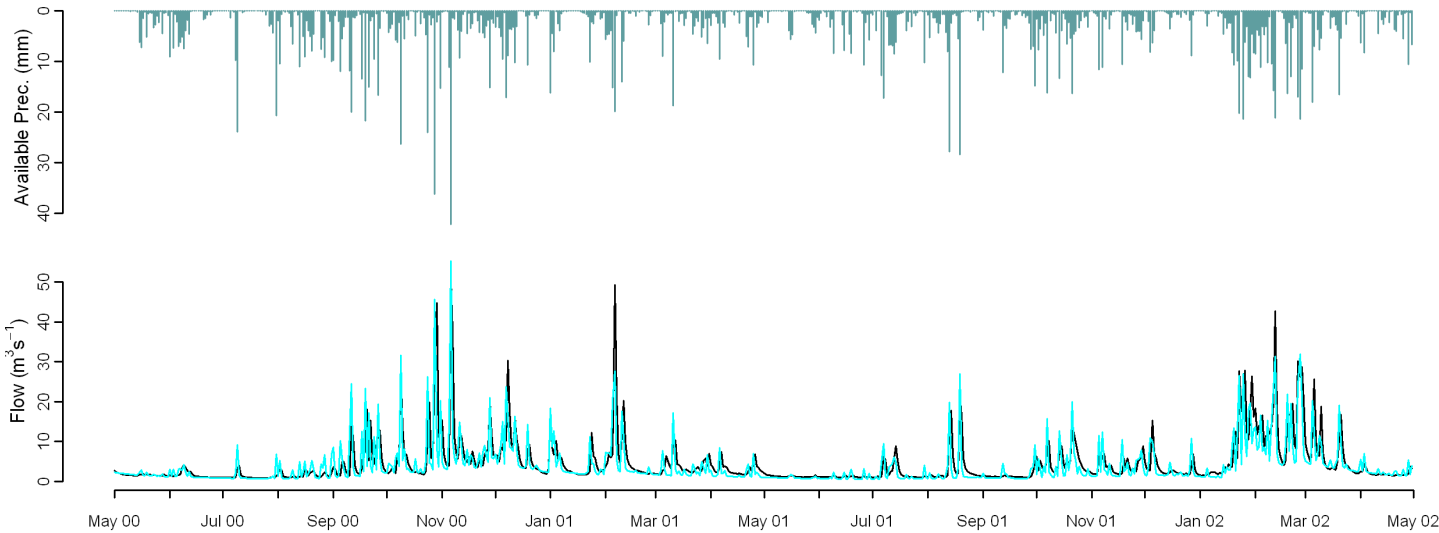
Model used: PDM

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-5.6	-4.7	-4.9	-10.3	-14.0	-15.2	-7.2	-3.4	1.0	5.6	-4.6	-5.1	-5.1	0.58
Performance Band	1	1	1	2	2	2	1	1	1	1	1	1	1	2
FAO (1962-1991)	2.7	1.7	-0.8	-5.4	-7.4	-5.4	-0.8	3.0	11.4	14.7	8.9	5.0	5.6	0.49
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-16.8	-11.7	-9.2	-9.4	-3.2	-1.6	-8.0	-14.4	-21.4					
Performance Band	1	1	1	1	1									
FAO (1962-1991)	-8.8	-4.6	-1.5	0.0	6.1	8.5	1.1	-7.7	-17.6					

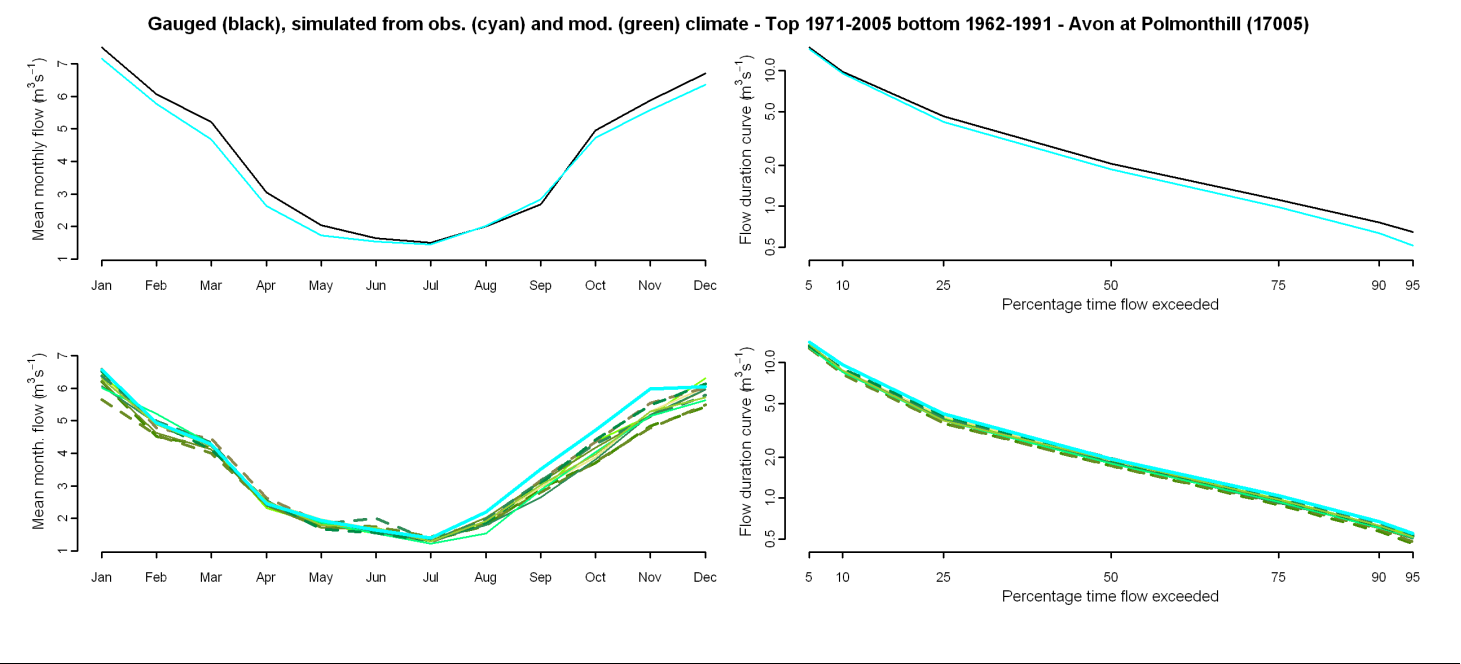
Gauged (black) and simulated (cyan) flows from observed climate - Avon at Polmonthill (17005)



Gauged (black) and simulated (cyan) flows from observed climate - Avon at Polmonthill (17005)



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	-10	-6	-2	-8	-11	-8	-5	-9	-5	-8
January	-1	-6	-1	1	-4	-9	-9	-2	-9	-1	-5
April	-4	-3	3	11	-5	-2	2	0	-2	3	-2
July	-7	-3	-7	-9	-7	-10	-7	-11	-13	-8	-9
October	-10	-20	-20	-6	-13	-22	-15	-14	-18	-7	-8
Q90	-6	-14	-8	-4	-12	-13	-10	-5	-10	-10	-7
Q75	-5	-14	-8	-3	-10	-12	-12	-3	-10	-6	-7
Q50	-3	-10	-3	3	-7	-10	-5	-1	-8	-3	-3
Q25	-7	-15	-5	-1	-10	-14	-9	-7	-12	-3	-12
Q5	-4	-6	-8	-3	-6	-9	-7	-7	-8	-6	-5
RP2	-9	-11	-9	-5	-11	-8	-7	2	-12	-3	-7
RP10	-3	-11	-2	-6	2	4	-7	4	-2	7	-3

Climate change graphs for 2050s

