

General Information

River Name	Avon	Catchment Area (km ²)	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



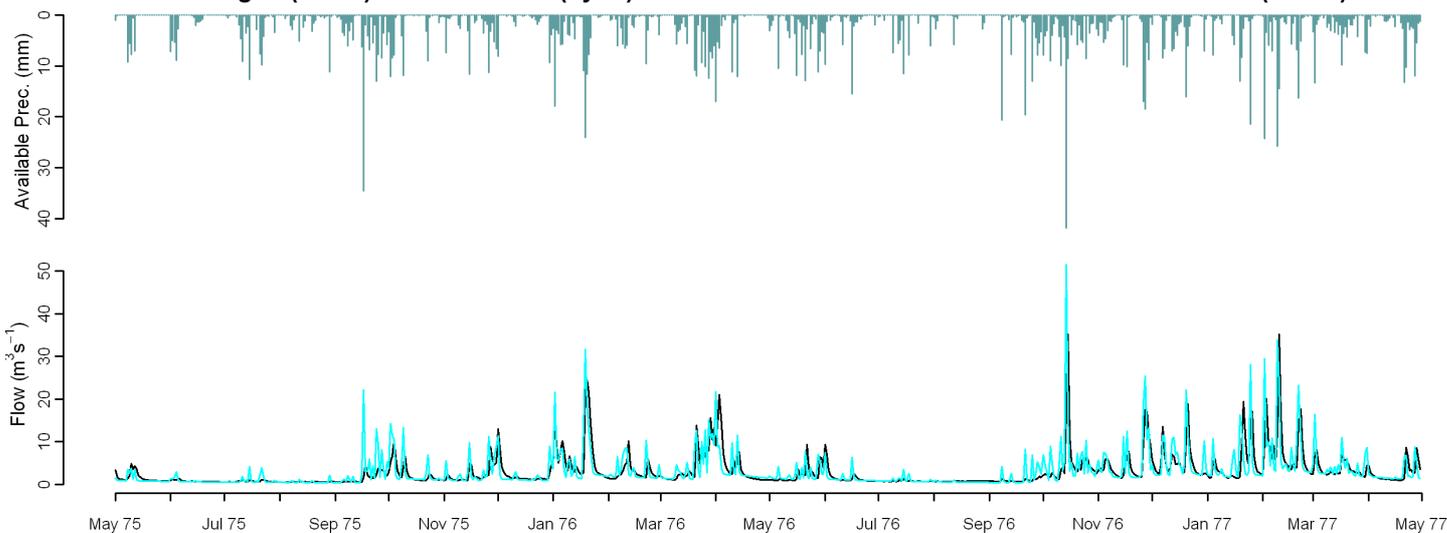
Observed Data

Comparison of gauged and simulated flow

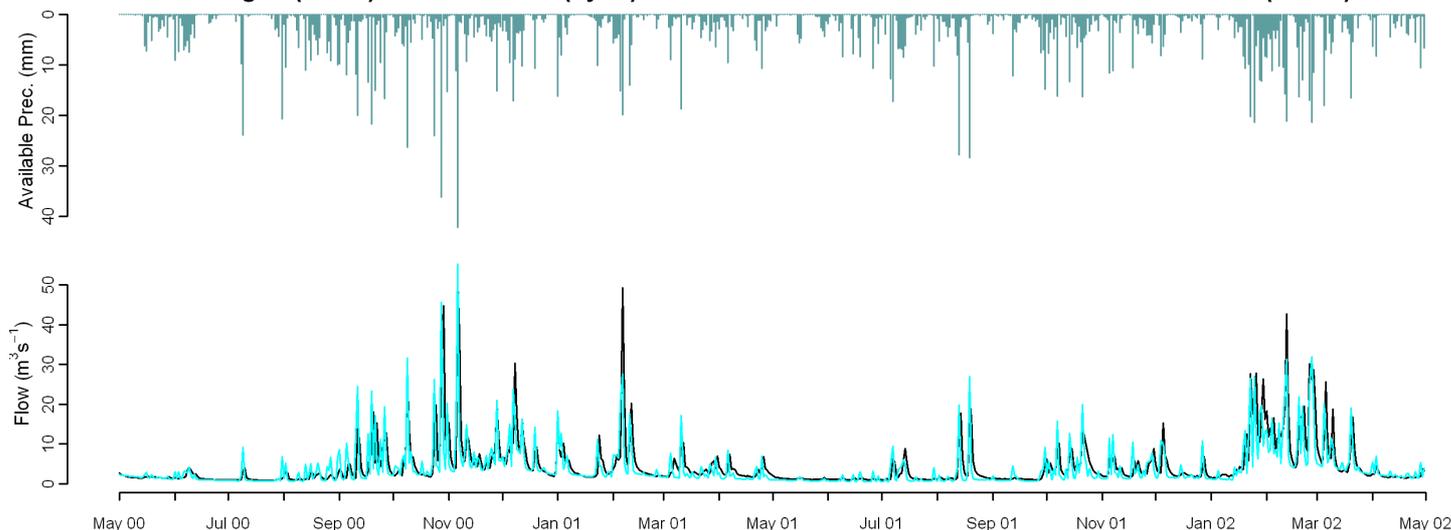
Model used: PDM

	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)

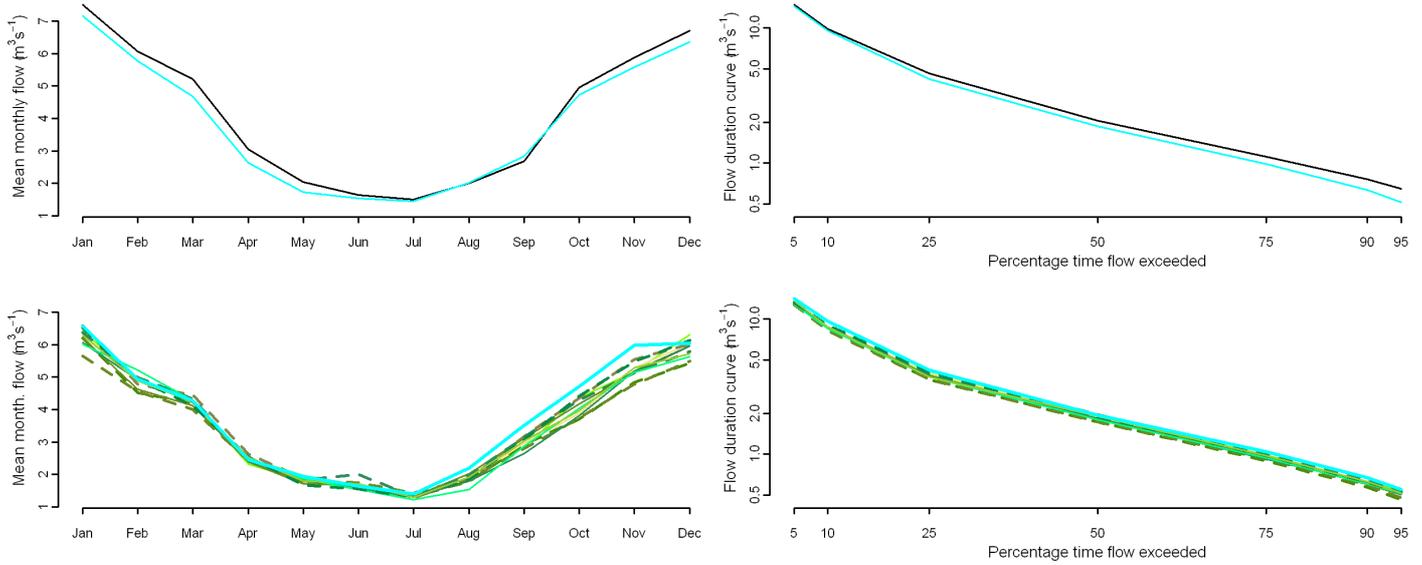


Gauged (black) and simulated (cyan) flows from observed climate - Avon at Polmonthill (17005)



Comparison of gauged and simulated flow (observed and modelled climate)

Gauged (black), simulated from obs. (cyan) and mod. (green) climate - Top 1971-2005 bottom 1962-1991 - Avon at Polmonthill (17005)



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

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Avon at Polmonthill (17005)

