

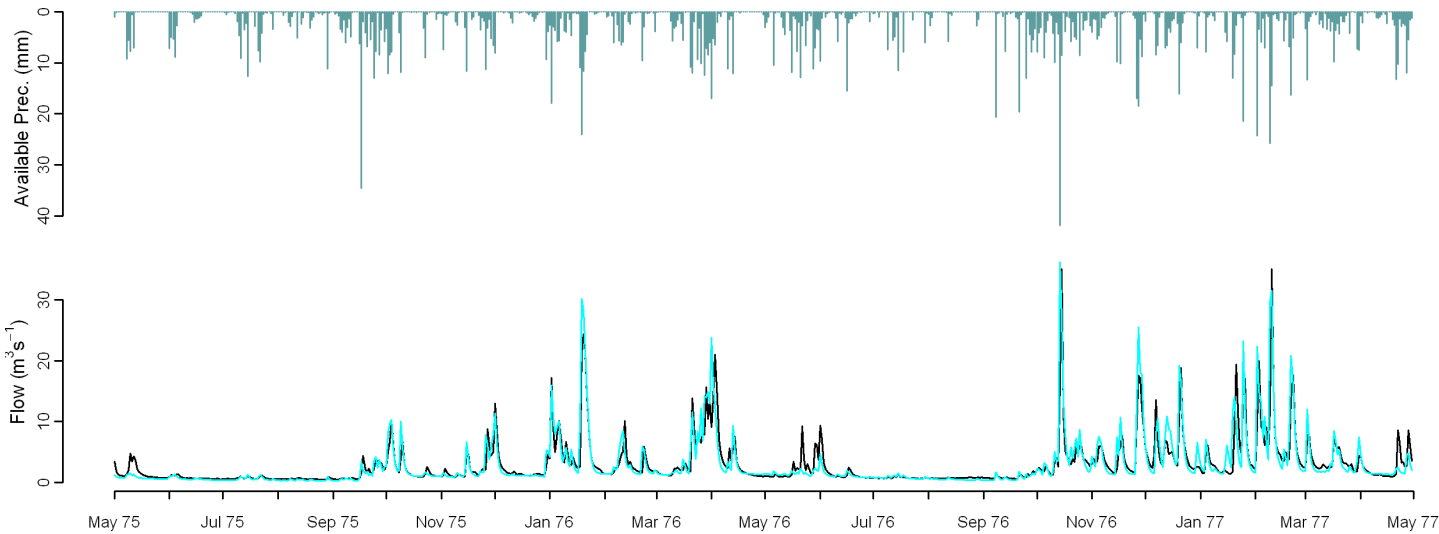
General Information

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	1971 to 2003

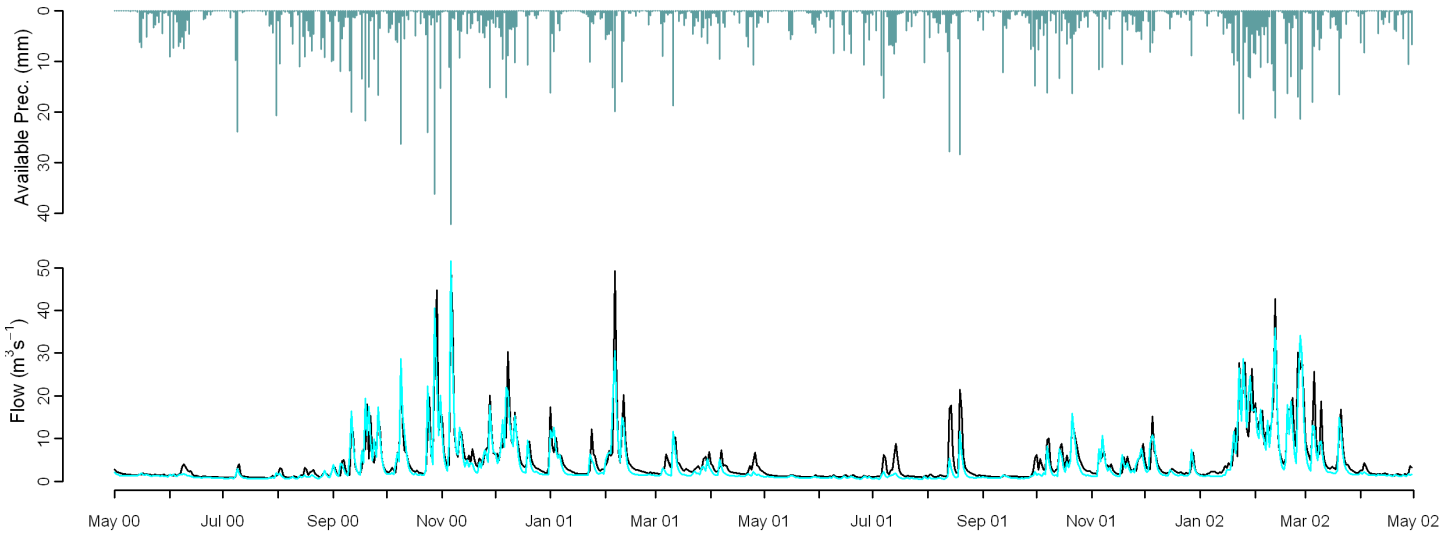


Observed Data	Comparison of gauged and simulated flow													Model used: CERF
	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-8.7	0.1	-4.5	-11.4	-21.6	-28.9	-30.7	-30.4	-29.0	-17.9	-5.5	-1.7	0.7	0.78
Performance Band	1	1	2	1	2	2	3	3	3	2	1	1	1	1
MORECS (1962-1991)	-4.9	2.2	-3.5	-7.1	-17.3	-24.4	-27.7	-28.0	-25.5	-17.8	-3.4	4.2	4.7	0.79
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	-21.6	-14.6	-28.1	-23.1	4.5									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	-13.1	-5.8	-25.0	-19.5	8.0									

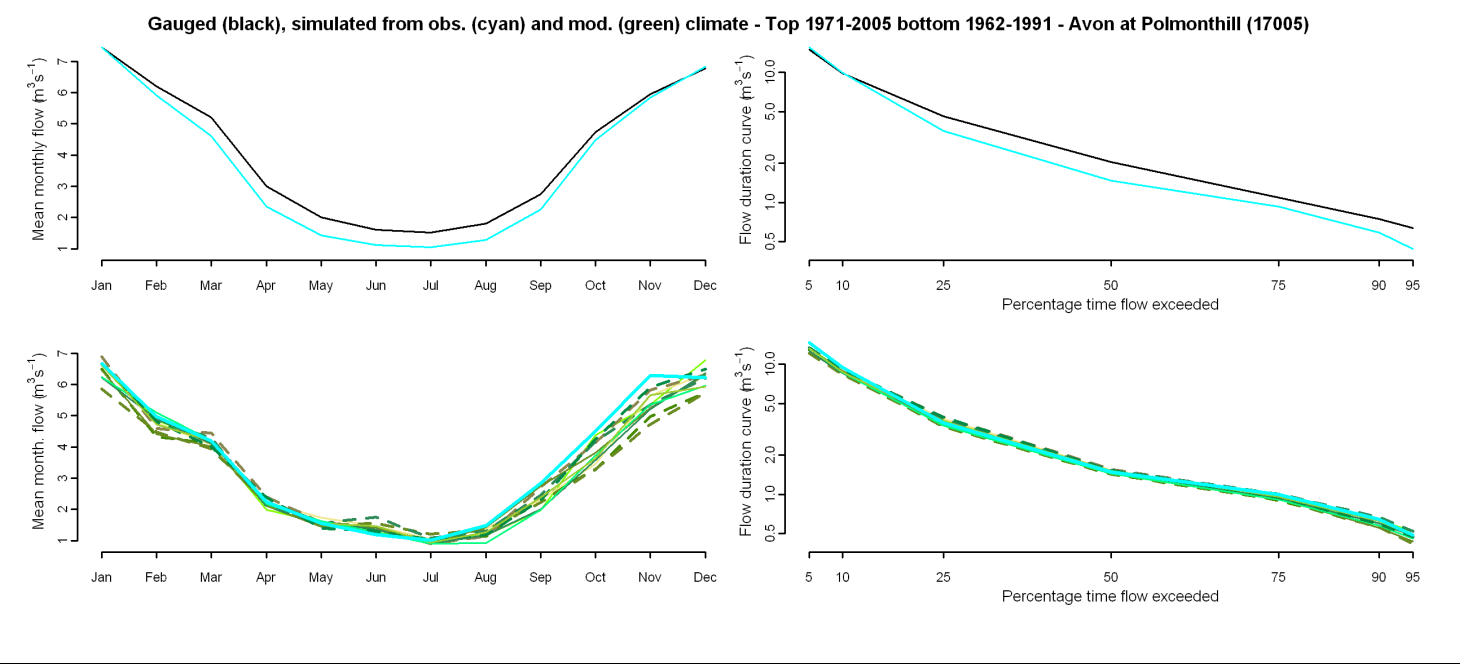
Gauged (black) and simulated (cyan) flows from observed climate - Avon at Polmonthill (17005)



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

Climate change graphs for 2050s

