

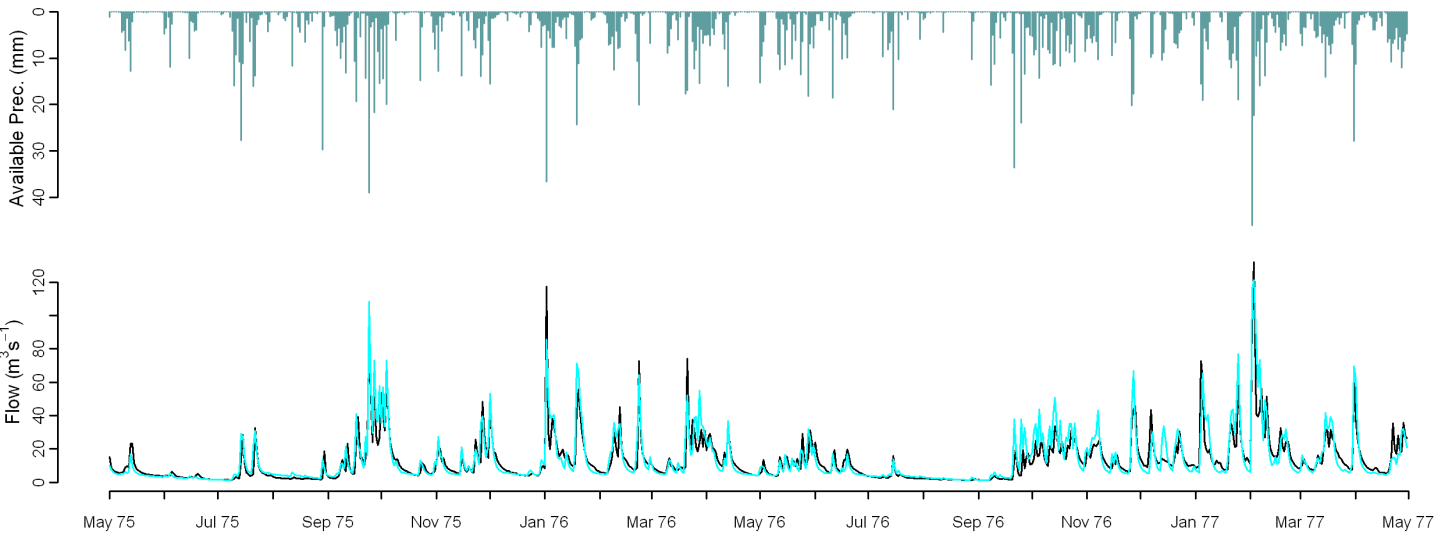
General Information

River Name	Esk	Catchment Area (km2)	495
Station Name	Canonbie	SAAR (mm) 61-90	1422
Station Number	77002	Mean Annual Rain (mm) 62-91	1452
Grid Reference	NY397751	Mean Annual PE (mm) 62-91	487
EA Region	SEPA-SW	Observed flow record	1962 to 2005

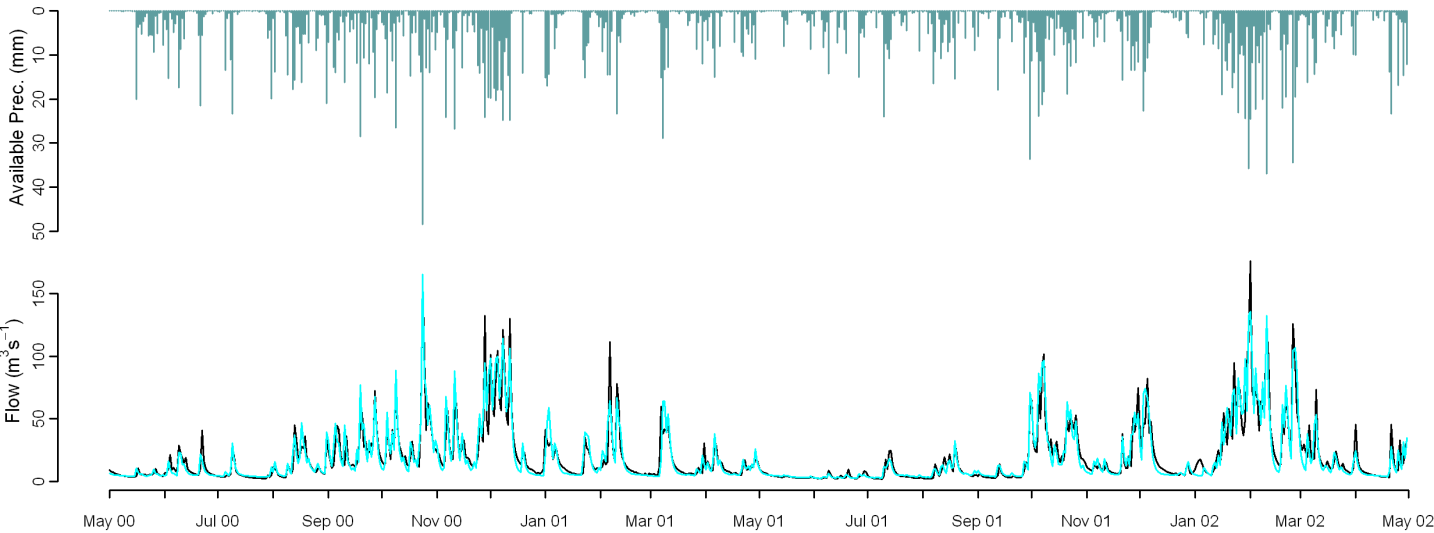


Observed Data	Comparison of gauged and simulated flow								Model used: CERF					
	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-1.8	-1.8	-1.8	-5.7	-11.2	-16.2	-13.6	-3.7	0.1	5.5	6.3	1.7	-0.1	0.80
Performance Band	1	1	1	1	2	2	2	1	1	1	1	1	1	1
MORECS (1962-1991)	-4.0	-2.4	-3.3	-6.9	-14.1	-20.4	-15.9	-3.8	-1.1	4.6	0.4	-0.5	-3.9	0.77
	Q90	Q75	Q50	Q25	Q5	RP2				RP5	RP10	RP20		
MORECS (1971-2005)	15.5	-1.2	-23.5	-5.6	9.5									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	10.6	-5.0	-24.5	-6.2	5.1									

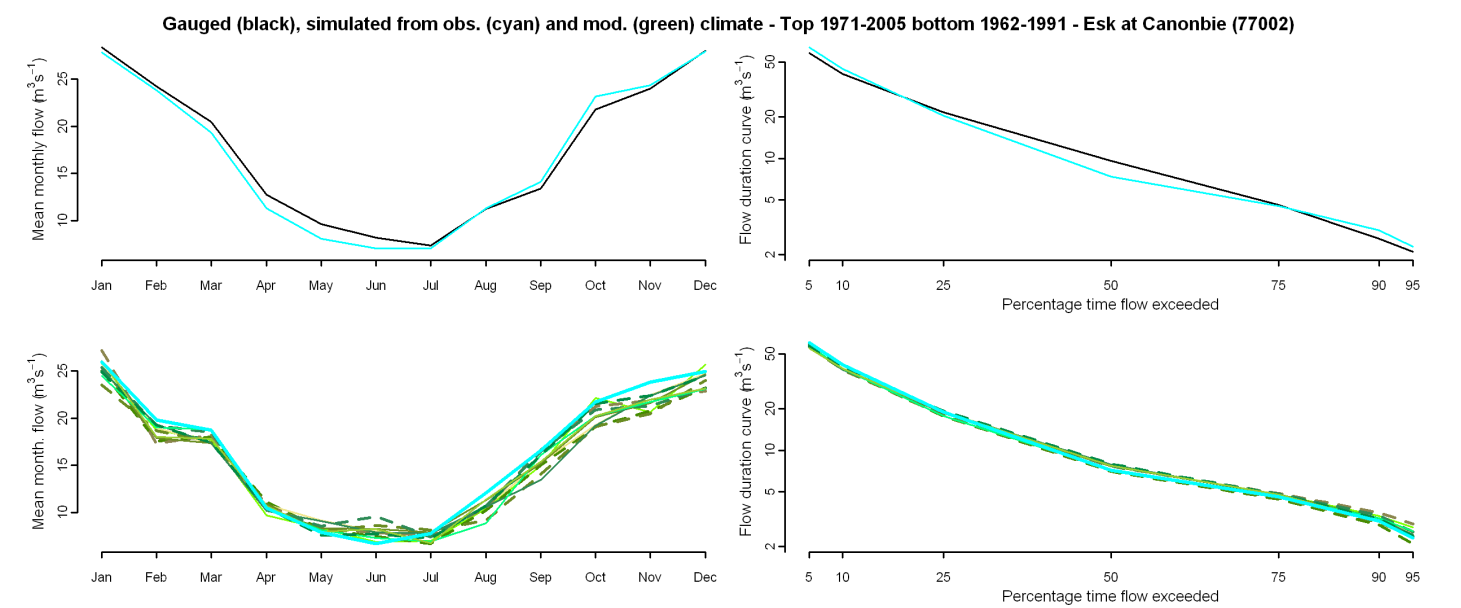
Gauged (black) and simulated (cyan) flows from observed climate - Esk at Canonbie (77002)



Gauged (black) and simulated (cyan) flows from observed climate - Esk at Canonbie (77002)



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

Climate change graphs for 2050s

