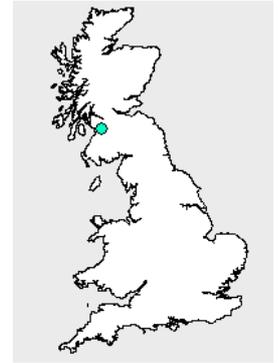


General Information

River Name	Irvine	Catchment Area (km ²)	73
Station Name	Newmilns	SAAR (mm) 61-90	1342
Station Number	83010	Mean Annual Rain (mm) 62-91	1369
Grid Reference	NS532372	Mean Annual PE (mm) 62-91	506
EA Region	SEPA-SW	Observed flow record	1980 to 2005



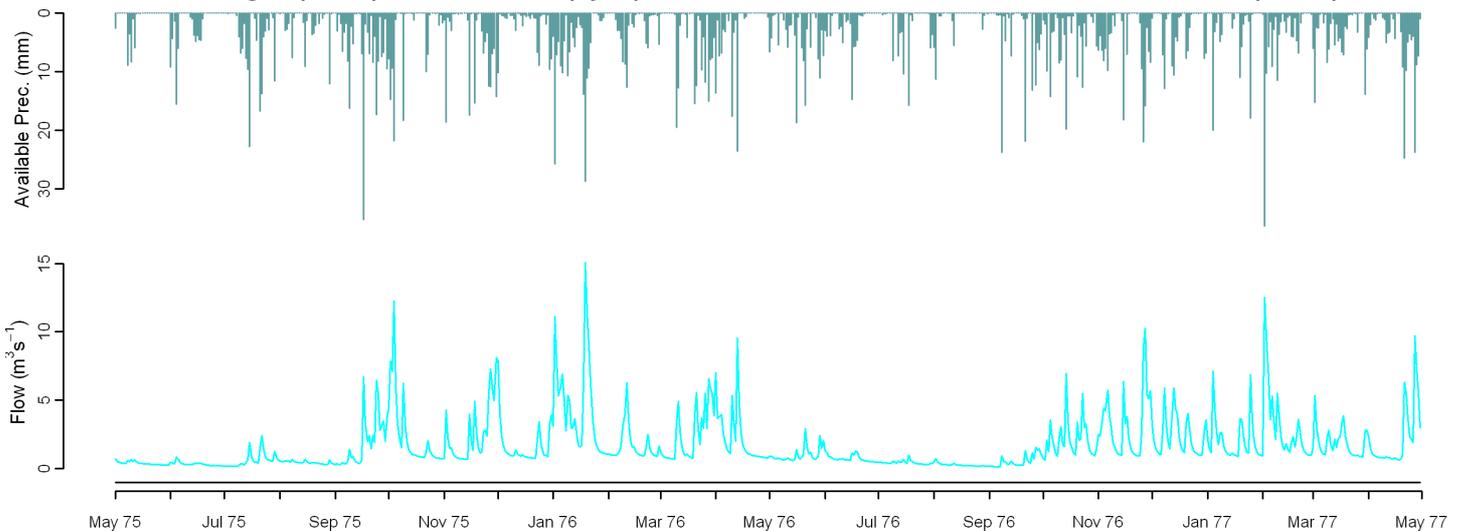
Observed Data

Comparison of gauged and simulated flow

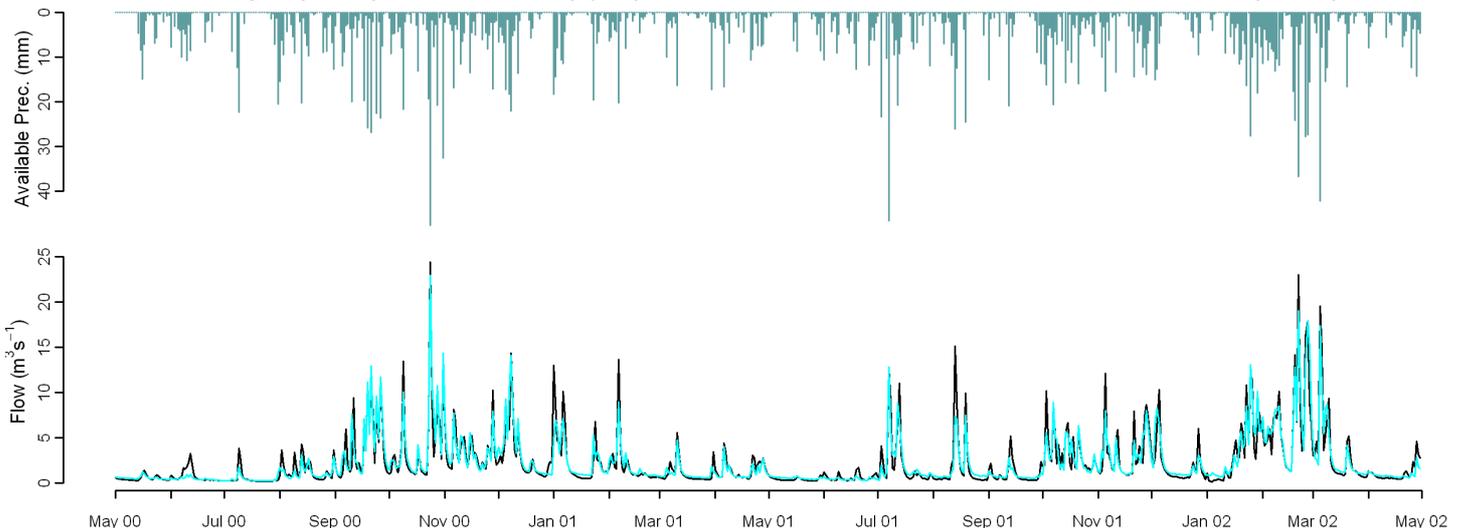
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	0.5	6.2	6.3	-2.7	-1.0	-8.0	-21.1	-18.5	-9.7	-2.5	3.4	5.6	6.8	0.82
Performance Band	1	1	1	1	1	1	2	2	1	1	1	1	2	1
MORECS (1962-1991)	1.5	5.3	8.9	-1.7	6.0	-2.8	-26.6	-18.8	-8.9	-0.1	4.9	6.7	7.5	0.84
	Q90	Q75	Q50	Q25	Q5			RP2	RP5	RP10	RP20			
MORECS (1971-2005)	39.3	37.6	5.9	4.2	-3.7									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	46.8	44.9	8.3	8.7	-3.7									

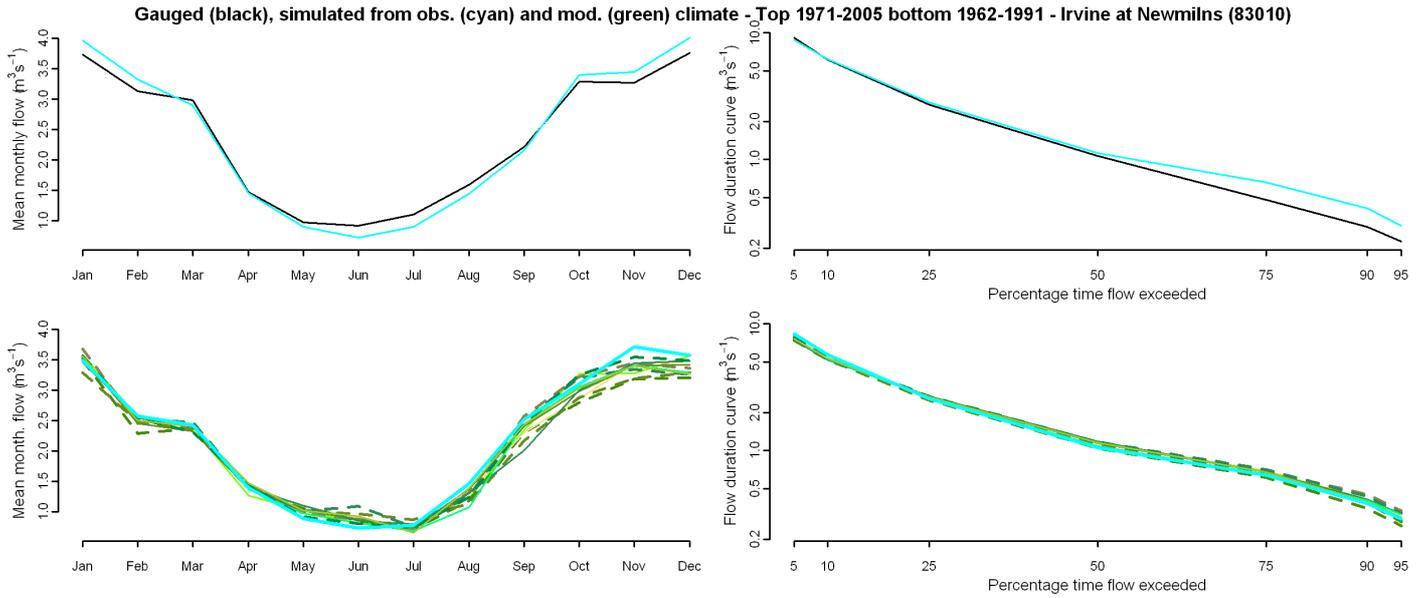
Gauged (black) and simulated (cyan) flows from observed climate - Irvine at Newmilns (83010)



Gauged (black) and simulated (cyan) flows from observed climate - Irvine at Newmilns (83010)



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	0	-4	-1	3	-1	-4	-2	1	-2	0	-1
January	3	3	3	3	2	-2	-3	4	1	-2	5
April	-6	2	0	10	-1	2	1	2	-4	5	4
July	2	-3	-5	-1	-4	0	4	-2	-9	-7	-16
October	6	-3	-10	8	-2	-6	4	2	-1	6	2
Q90	8	-6	-1	20	-2	-2	6	12	7	-1	2
Q75	8	-3	3	10	3	-1	5	10	0	3	5
Q50	10	0	7	10	7	5	12	11	4	9	10
Q25	4	0	4	6	3	-3	5	5	2	4	3
Q5	-8	-9	-9	-5	-9	-11	-10	-6	-9	-10	-9
RP2	-10	-7	-8	-3	-7	-6	-9	-4	-2	-6	-4
RP10	-6	-7	-5	-2	-5	-7	-3	4	0	4	-2

Climate change graphs for 2050s

