

## General Information

River Name	Ayr	Catchment Area (km <sup>2</sup> )	60
Station Name	Wellwood	SAAR (mm) 61-90	1348
Station Number	83011	Mean Annual Rain (mm) 62-91	1377
Grid Reference	NS660261	Mean Annual PE (mm) 62-91	442
EA Region	SEPA-SW	Observed flow record	1991 to 2008



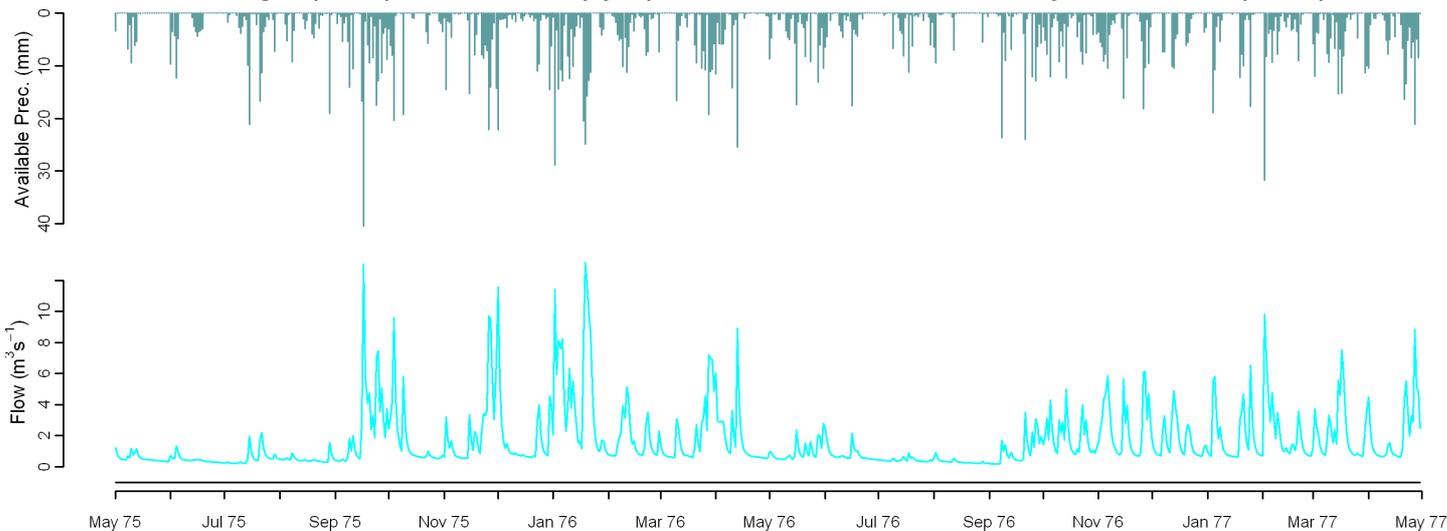
## Observed Data

## Comparison of gauged and simulated flow

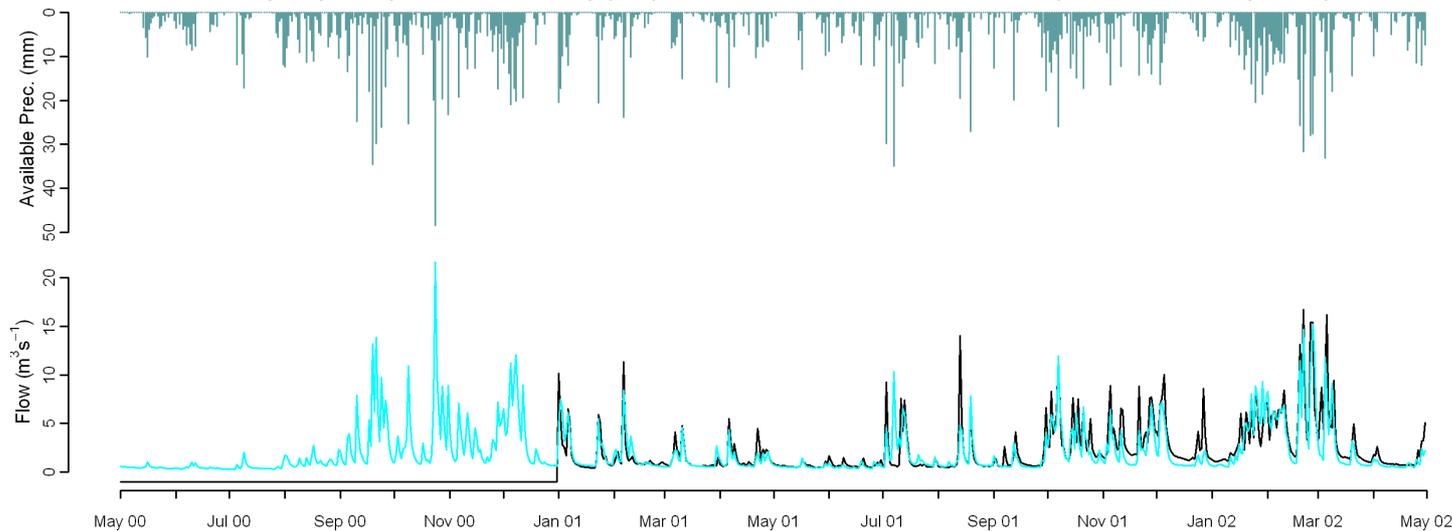
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-12.6	-5.6	-11.0	-22.5	-24.6	-21.6	-19.9	-13.1	-6.0	-8.0	-6.7	-23.1	-8.9	0.66
Performance Band	1	2	2	2	1	2	3	2	1	1	2	1	2	1
MORECS (1962-1991)														
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-8.6	-17.1	-27.8	-10.8	2.0									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)														

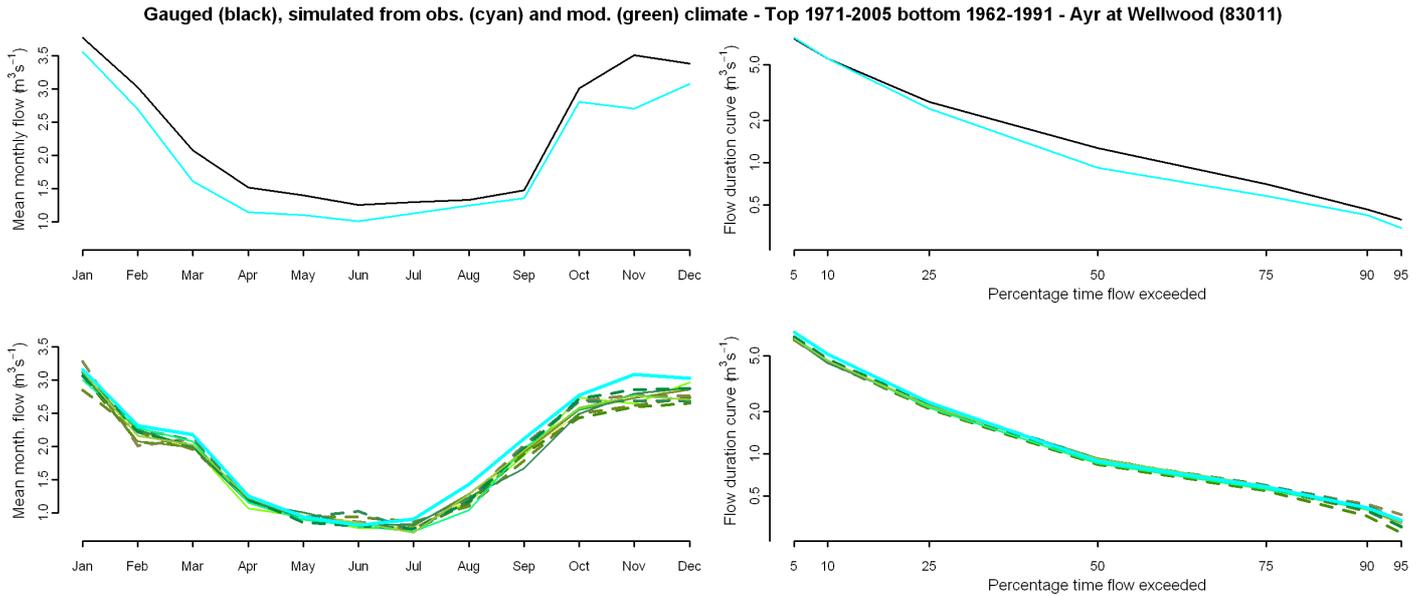
Gauged (black) and simulated (cyan) flows from observed climate - Ayr at Wellwood (83011)



Gauged (black) and simulated (cyan) flows from observed climate - Ayr at Wellwood (83011)



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	-5	-7	-4	-2	-5	-7	-6	-4	-6	-4	-6
January	0	-1	1	1	-1	-6	-6	-1	-4	-6	2
April	-13	-7	-6	2	-7	-4	-6	-3	-10	-1	-3
July	-14	-12	-16	-12	-10	-14	-7	-18	-18	-18	-23
October	-1	-6	-12	0	-6	-9	-2	-5	-7	0	-5
Q90	0	-11	-5	8	-3	-7	-4	2	-3	-6	-2
Q75	1	-6	-1	3	0	-3	-1	2	-3	-1	1
Q50	2	-4	3	3	3	-1	5	2	-3	3	4
Q25	-5	-9	-5	-5	-7	-9	-4	-5	-8	-4	-6
Q5	-11	-10	-11	-8	-11	-12	-11	-7	-10	-9	-12
RP2	-7	-5	-4	-4	-4	-2	-6	-3	0	-7	-7
RP10	-13	-9	-9	-9	0	-5	-5	3	-4	0	0

Climate change graphs for 2050s

