

## General Information

River Name	Nairn	Catchment Area (km2)	313
Station Name	Firhall	SAAR (mm) 61-90	940
Station Number	7004	Mean Annual Rain (mm) 62-91	974
Grid Reference	NH882551	Mean Annual PE (mm) 62-91	500
EA Region	SEPA-NW	Observed flow record	1979 to 2005



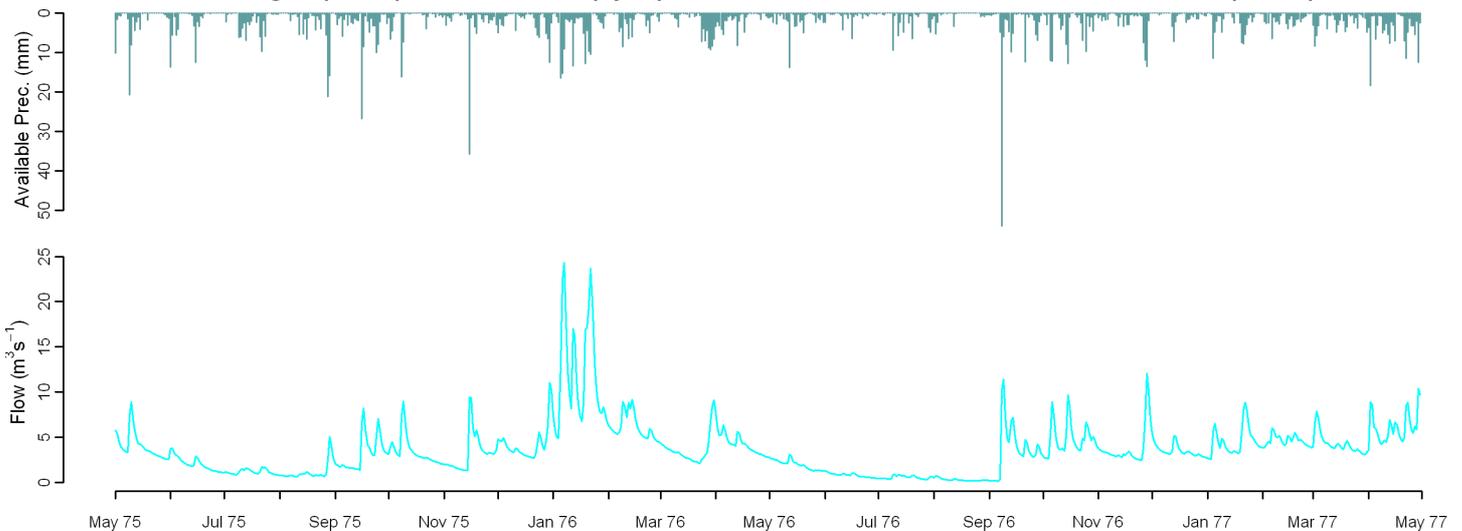
## Observed Data

## Comparison of gauged and simulated flow

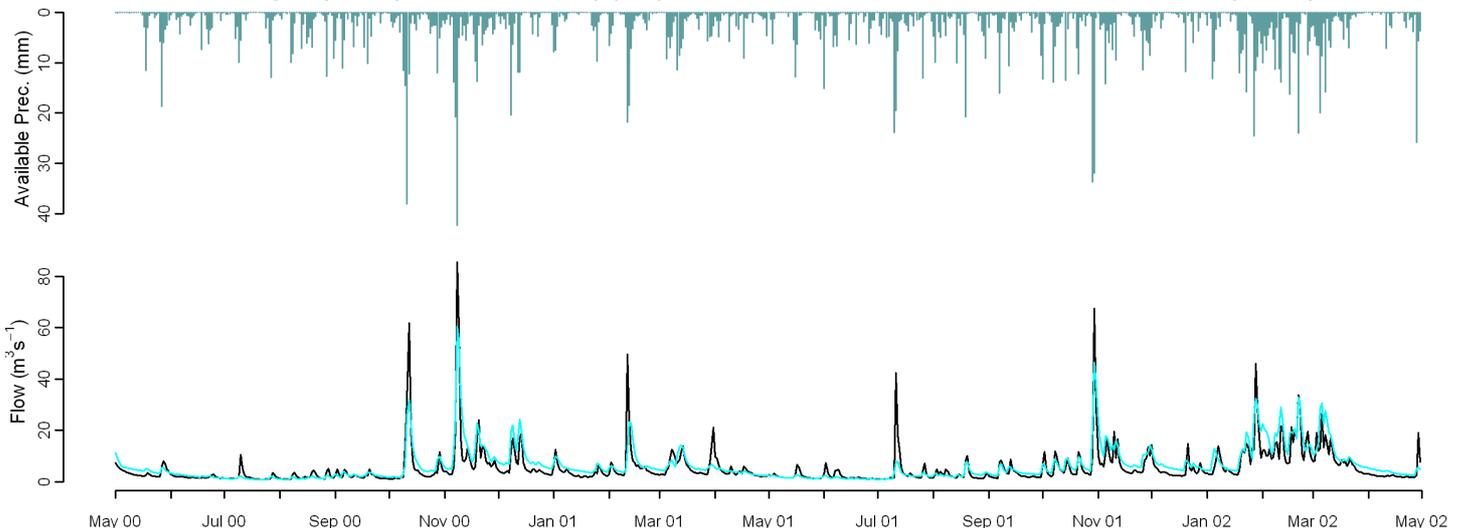
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	9.8	12.9	17.7	1.5	-5.0	-10.0	-12.7	-6.1	10.4	10.6	13.8	22.6	22.2	0.67
Performance Band	1	1	1	1	1	1	1	1	1	2	2	2	2	1
MORECS (1962-1991)	5.6	4.7	14.4	-4.9	-5.5	-18.2	-13.7	-4.3	2.7	3.4	13.8	21.0	14.3	0.68
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	2.3	27.0	29.9	15.3	3.3									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	12.2	30.0	24.0	10.3	-5.5									

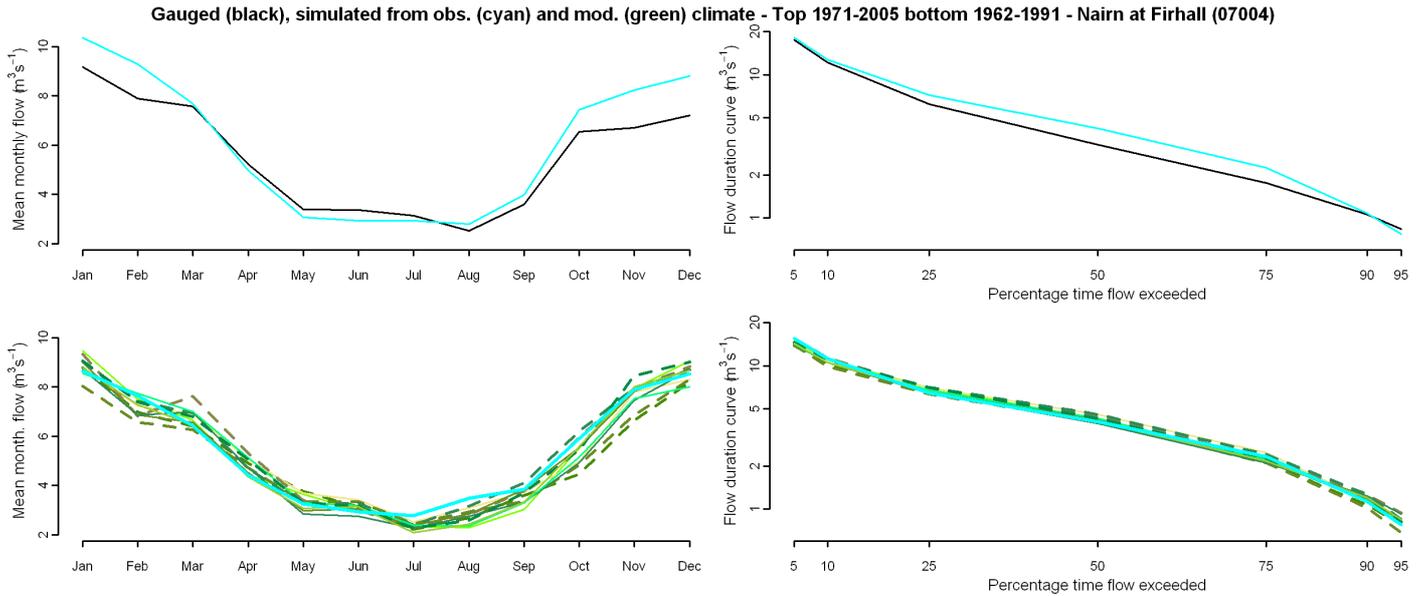
Gauged (black) and simulated (cyan) flows from observed climate - Nairn at Firhall (07004)



Gauged (black) and simulated (cyan) flows from observed climate - Nairn at Firhall (07004)



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	-1	4	4	-2	-5	-4	4	-2	3	-1
January	8	5	2	8	5	-3	-1	4	-2	4	6
April	1	14	16	19	4	6	6	13	14	17	-1
July	-14	-16	-4	-14	-14	-18	-13	-13	-16	-19	-24
October	-6	-19	-14	8	-8	-19	-12	3	-11	-8	4
Q90	4	-2	2	13	0	-12	4	9	-3	-3	7
Q75	-6	-4	7	1	-7	-12	-10	4	-8	-5	-7
Q50	4	3	14	8	3	-1	-1	12	4	5	0
Q25	8	1	9	8	3	-2	0	9	3	8	1
Q5	-6	-11	-9	-2	-10	-11	-10	-7	-9	-8	-7
RP2	-2	-3	-6	-2	9	-1	4	-8	-2	0	8
RP10	-5	-13	-9	-11	2	-13	7	6	0	4	5

Climate change graphs for 2050s

