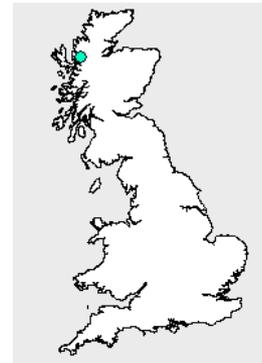


## General Information

River Name	Carron	Catchment Area (km <sup>2</sup> )	138
Station Name	New Kelso	SAAR (mm) 61-90	2611
Station Number	93001	Mean Annual Rain (mm) 62-91	2676
Grid Reference	NG942429	Mean Annual PE (mm) 62-91	429
EA Region	SEPA-NW	Observed flow record	1979 to 2005



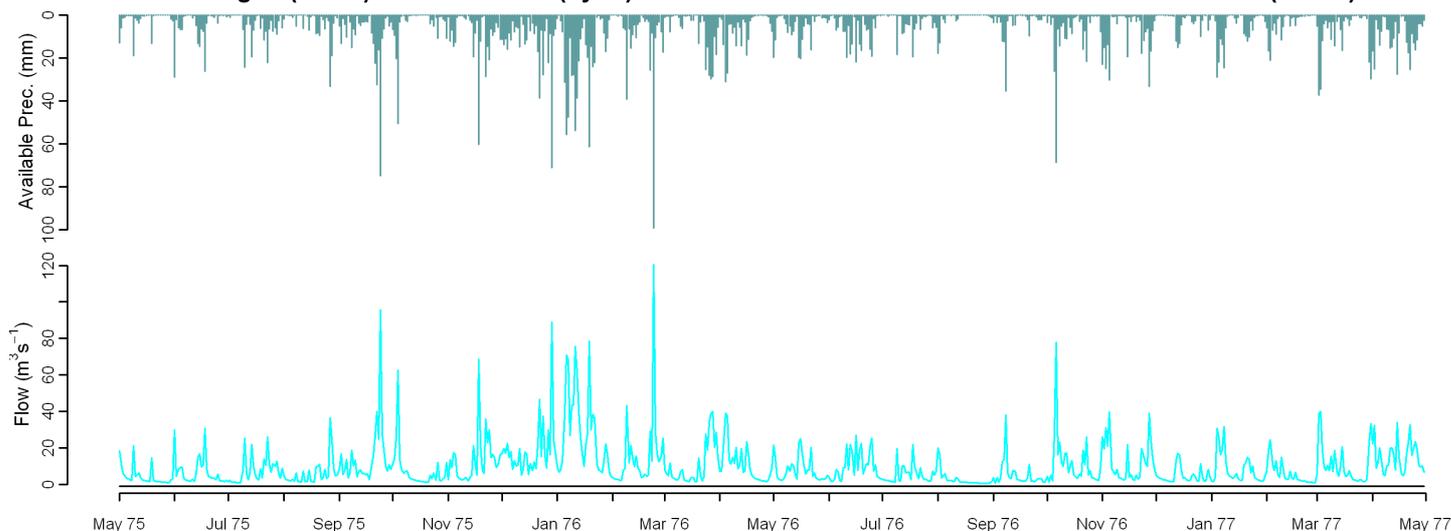
## Observed Data

## Comparison of gauged and simulated flow

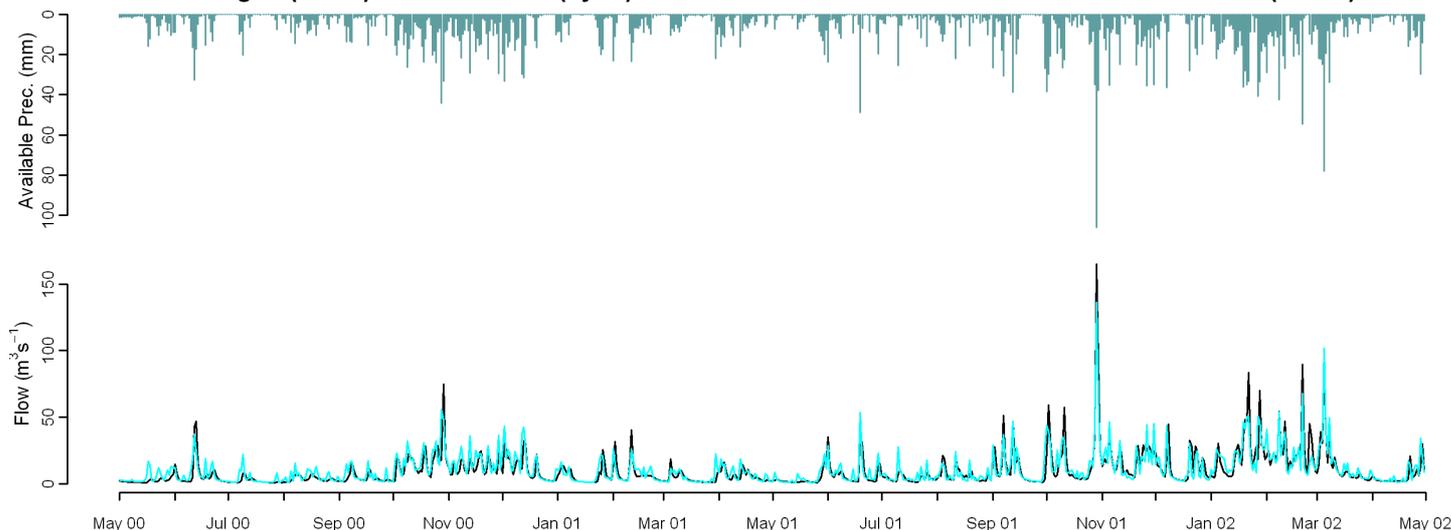
## Model used: PDM

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	9.2	2.2	2.4	5.9	14.1	31.5	31.9	18.6	20.6	10.8	10.6	7.6	0.1	0.71
Performance Band	1	1	1	1	2	3	3	2	2	2	2	1	1	1
FAO (1962-1991)	10.5	3.9	11.1	8.6	18.4	23.3	49.8	16.5	17.1	8.2	10.9	8.6	0.1	0.69
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	14.6	19.9	26.1	17.7	3.4	-18.6	-24.1	-27.2	-29.8					
Performance Band	1	1	2	2	1									
FAO (1962-1991)	14.7	17.7	30.3	19.3	0.7	-20.1	-26.0	-28.0	-28.9					

Gauged (black) and simulated (cyan) flows from observed climate - Carron at New Kelso (93001)

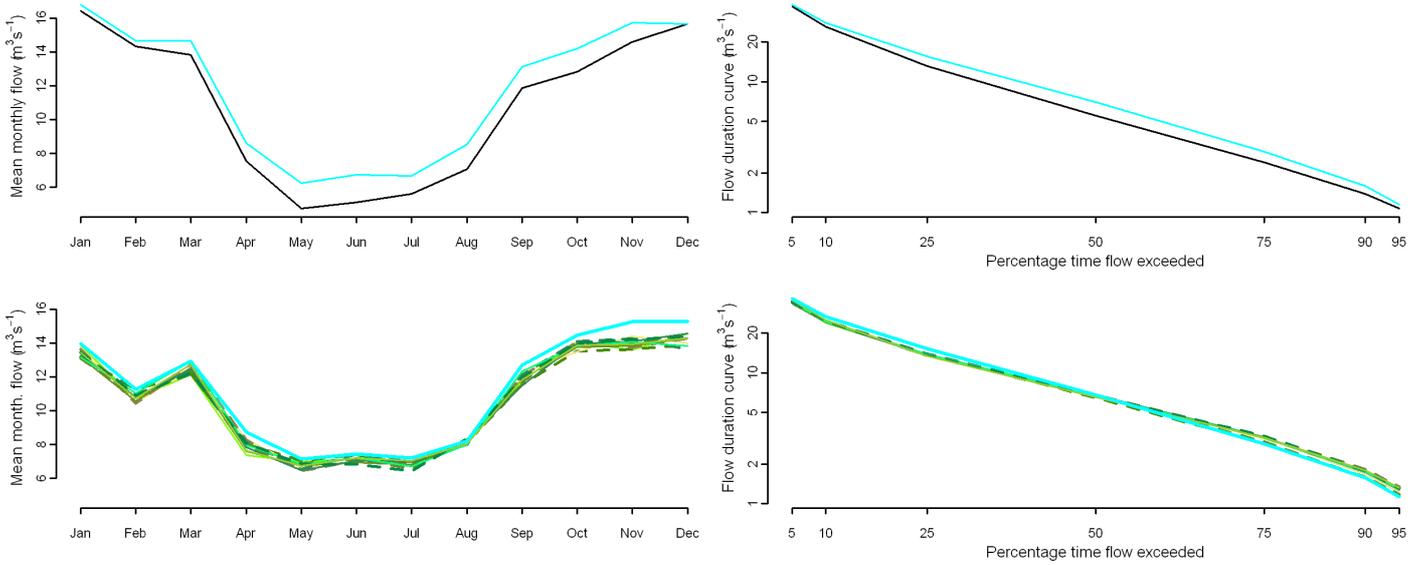


Gauged (black) and simulated (cyan) flows from observed climate - Carron at New Kelso (93001)



## Comparison of gauged and simulated flow (observed and modelled climate)

Gauged (black), simulated from obs. (cyan) and mod. (green) climate - Top 1971-2005 bottom 1962-1991 - Carron at New Kelso (93001)



## Percentage difference between flow simulated from observed climate and Future Flows Climate

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-6	-5	-6	-5	-6	-5	-6	-6	-6	-6	-5
January	-3	-5	-3	-3	-4	-3	-6	-7	-11	-5	-4
April	-13	-6	-7	-6	-11	-9	-10	-9	-10	-8	-13
July	-7	-8	-6	-4	-6	-11	-5	-6	-8	-8	-4
October	-3	-4	-6	-4	-6	-5	-3	-5	-7	-6	-5
Q90	10	2	6	16	9	0	10	9	11	13	13
Q75	10	3	11	13	12	4	12	11	11	14	12
Q50	-1	-5	-1	-1	-2	-2	-1	-3	-2	-2	-4
Q25	-11	-9	-9	-9	-11	-8	-12	-9	-10	-12	-12
Q5	-7	-7	-6	-7	-8	-4	-5	-8	-6	-5	-3
RP2	-7	-5	-7	-16	-7	-10	-12	-12	-10	-11	-13
RP10	-16	-11	-11	-12	-15	-20	-23	-17	-17	-15	-18

## Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Carron at New Kelso (93001)

