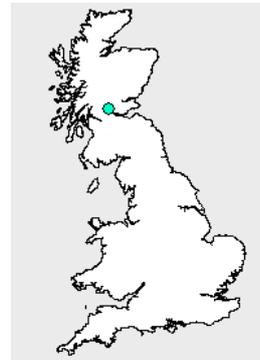


## General Information

River Name	Allan Water	Catchment Area (km <sup>2</sup> )	210
Station Name	Bridge of Allan	SAAR (mm) 61-90	1334
Station Number	18005	Mean Annual Rain (mm) 62-91	1336
Grid Reference	NS786980	Mean Annual PE (mm) 62-91	501
EA Region	SEPA-SE	Observed flow record	1971 to 2002



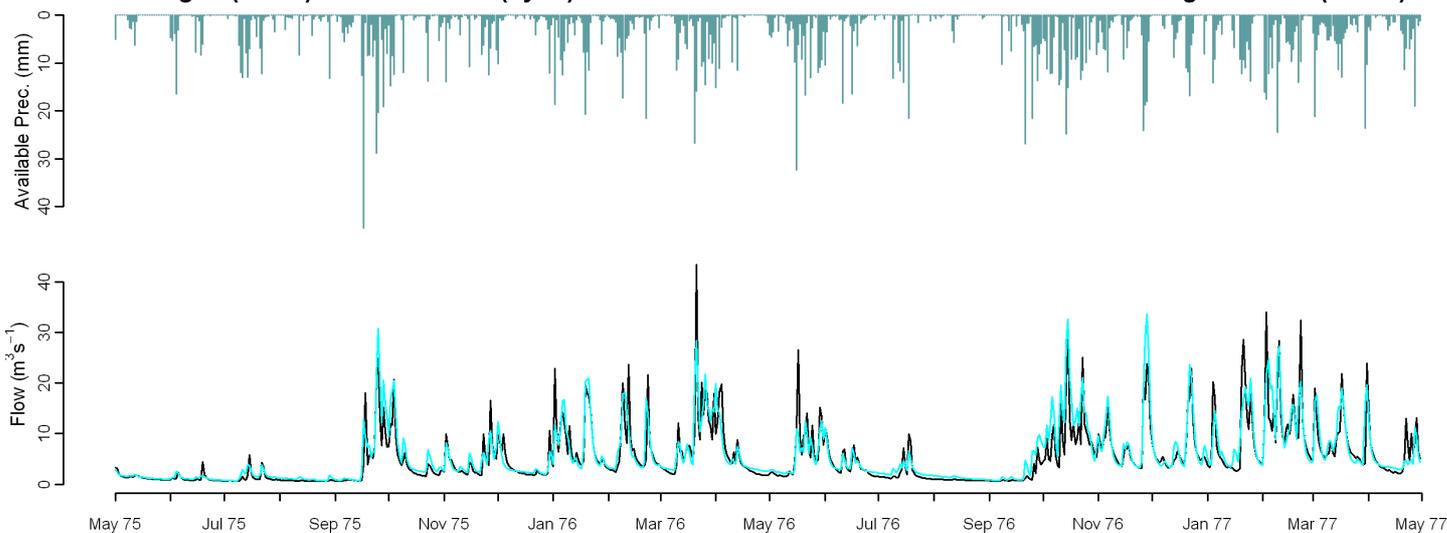
## Observed Data

## Comparison of gauged and simulated flow

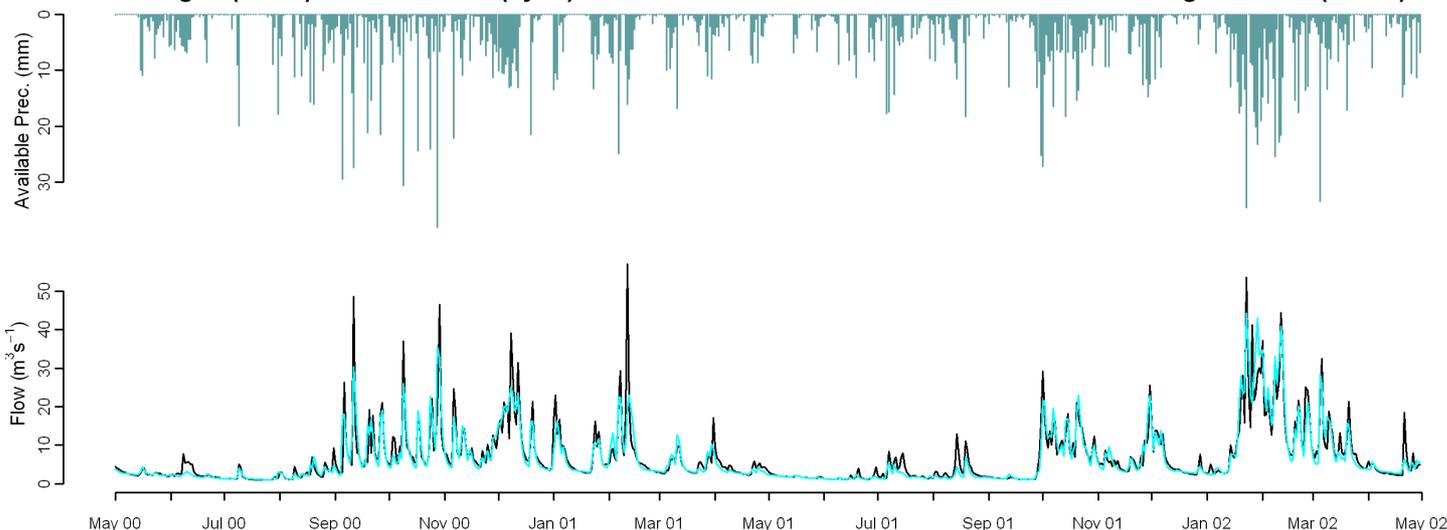
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-1.8	-2.0	-1.7	-8.1	-13.0	-14.0	-7.7	2.4	2.8	5.9	6.0	2.1	0.0	0.80
Performance Band	1	1	1	1	2	2	2	1	1	1	1	1	1	1
MORECS (1962-1991)	0.8	-2.1	0.9	-5.2	-8.5	-15.4	-7.1	5.8	7.1	10.7	10.3	5.4	2.4	0.79
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	18.7	13.5	-11.1	-6.1	3.3									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	25.4	19.4	-9.4	-4.9	4.5									

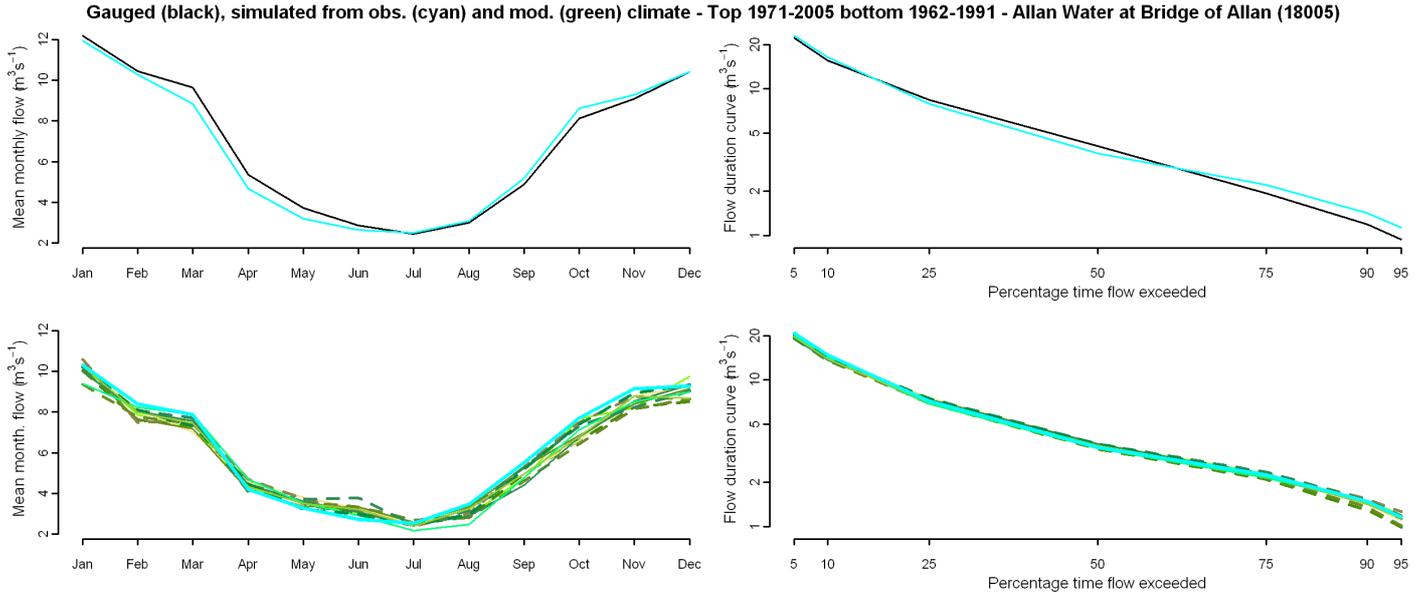
Gauged (black) and simulated (cyan) flows from observed climate - Allan Water at Bridge of Allan (18005)



Gauged (black) and simulated (cyan) flows from observed climate - Allan Water at Bridge of Allan (18005)



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

Climate change graphs for 2050s

