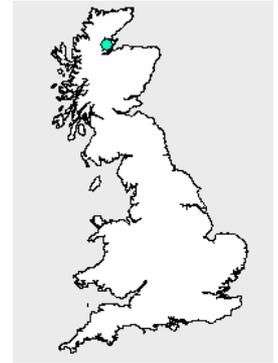


General Information

River Name	Alness	Catchment Area (km ²)	201
Station Name	Alness	SAAR (mm) 61-90	1368
Station Number	4003	Mean Annual Rain (mm) 62-91	1370
Grid Reference	NH654695	Mean Annual PE (mm) 62-91	484
EA Region	SEPA-NW	Observed flow record	1974 to 2005



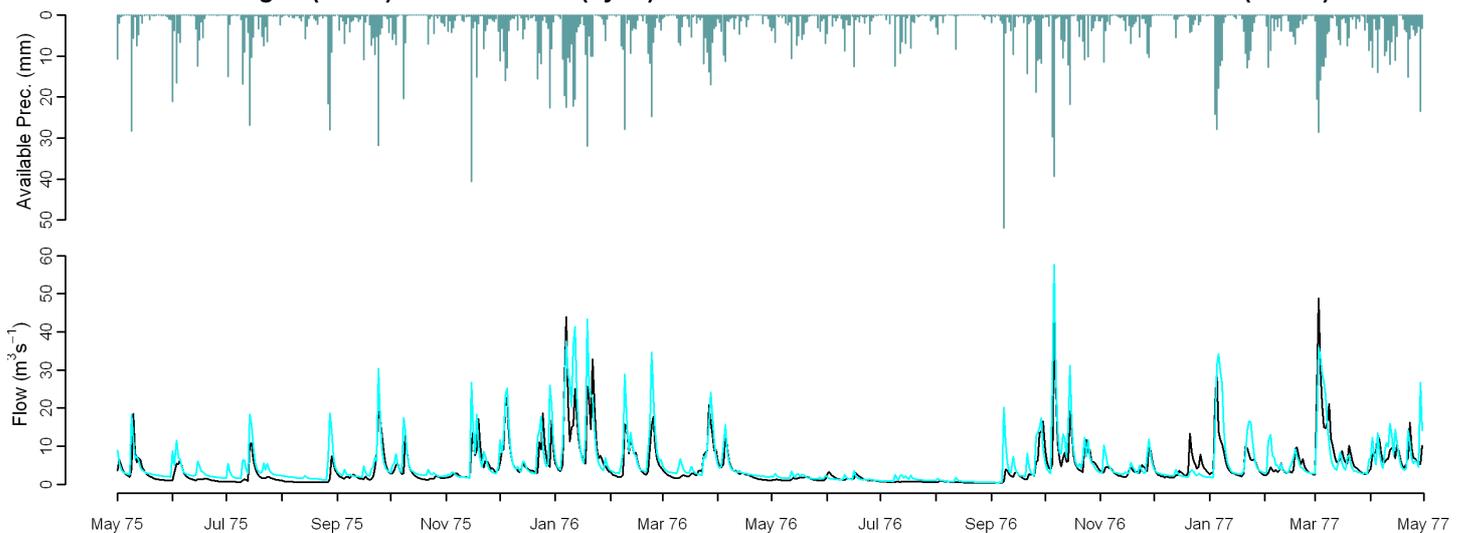
Observed Data

Comparison of gauged and simulated flow

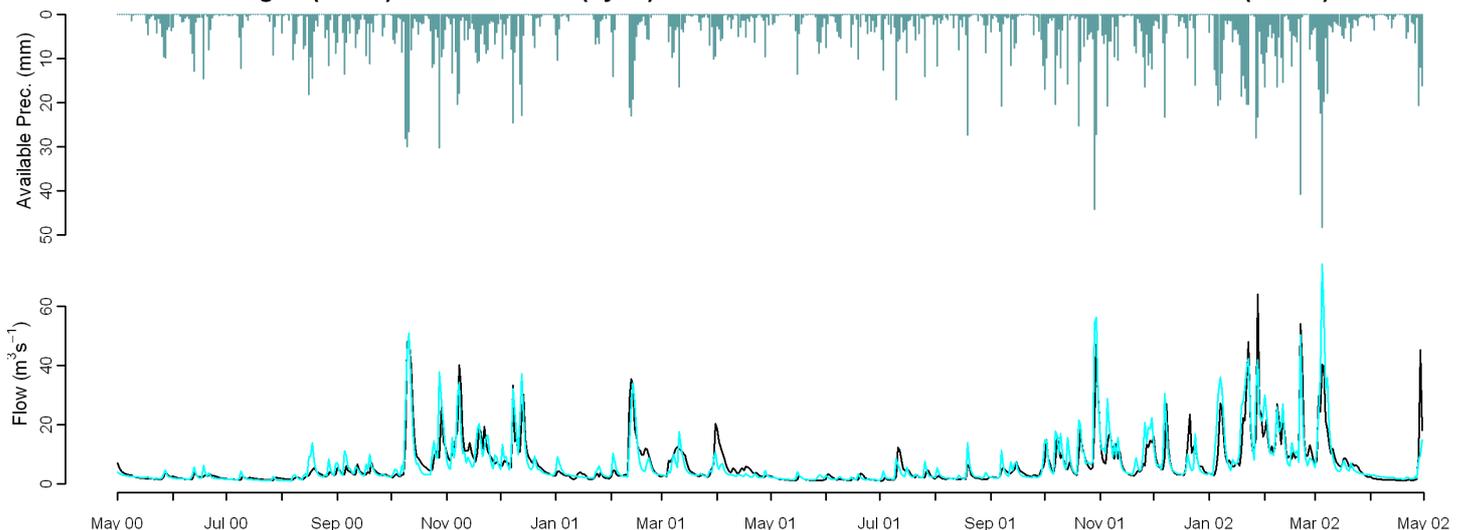
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	11.1	11.3	15.6	3.4	-7.8	0.7	20.1	11.1	27.2	26.2	12.1	18.5	11.1	0.61
Performance Band	2	1	2	1	1	1	2	2	2	3	1	2	2	2
MORECS (1962-1991)	13.7	10.5	23.1	5.2	-1.9	2.1	19.6	21.3	28.5	25.1	15.4	21.5	11.4	0.63
	Q90	Q75	Q50	Q25	Q5			RP2	RP5	RP10	RP20			
MORECS (1971-2005)	25.0	17.8	-4.7	4.5	25.0									
Performance Band	1	1	2	2	1									
MORECS (1962-1991)	37.5	18.5	-6.0	6.3	28.8									

Gauged (black) and simulated (cyan) flows from observed climate - Alness at Alness (04003)

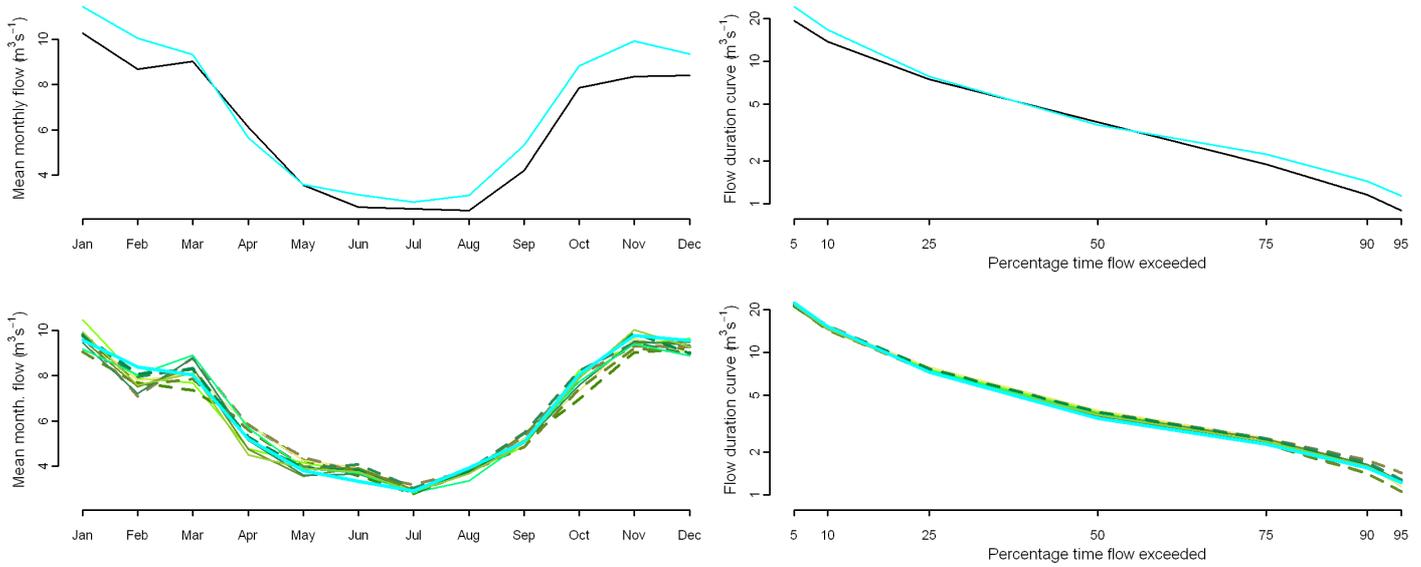


Gauged (black) and simulated (cyan) flows from observed climate - Alness at Alness (04003)



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 - Alness at Alness (04003)



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	1	3	3	-1	-2	-1	3	0	2	1
January	8	7	3	1	1	-2	-4	0	-8	2	9
April	-7	16	13	14	-8	7	-2	2	8	5	-13
July	0	-1	6	14	1	0	1	5	-1	0	-1
October	1	-7	-7	5	-2	-7	2	2	-1	0	7
Q90	3	-5	0	15	1	-9	1	8	-1	4	3
Q75	8	2	10	10	5	1	2	9	3	5	5
Q50	11	5	15	10	7	6	5	11	7	10	7
Q25	4	3	9	4	0	0	0	4	3	5	0
Q5	-6	-3	-6	-3	-7	-6	-5	-3	-4	-5	-3
RP2	-11	1	-5	-3	6	-3	-3	-10	-3	-11	11
RP10	-7	1	-2	-8	4	-2	4	-6	0	-14	20

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Alness at Alness (04003)

