

## General Information

River Name	Lochy	Catchment Area (km <sup>2</sup> )	48
Station Name	Inverlochy	SAAR (mm) 61-90	2886
Station Number	89005	Mean Annual Rain (mm) 62-91	2930
Grid Reference	NN197274	Mean Annual PE (mm) 62-91	436
EA Region	SEPA-SW	Observed flow record	1978 to 2005



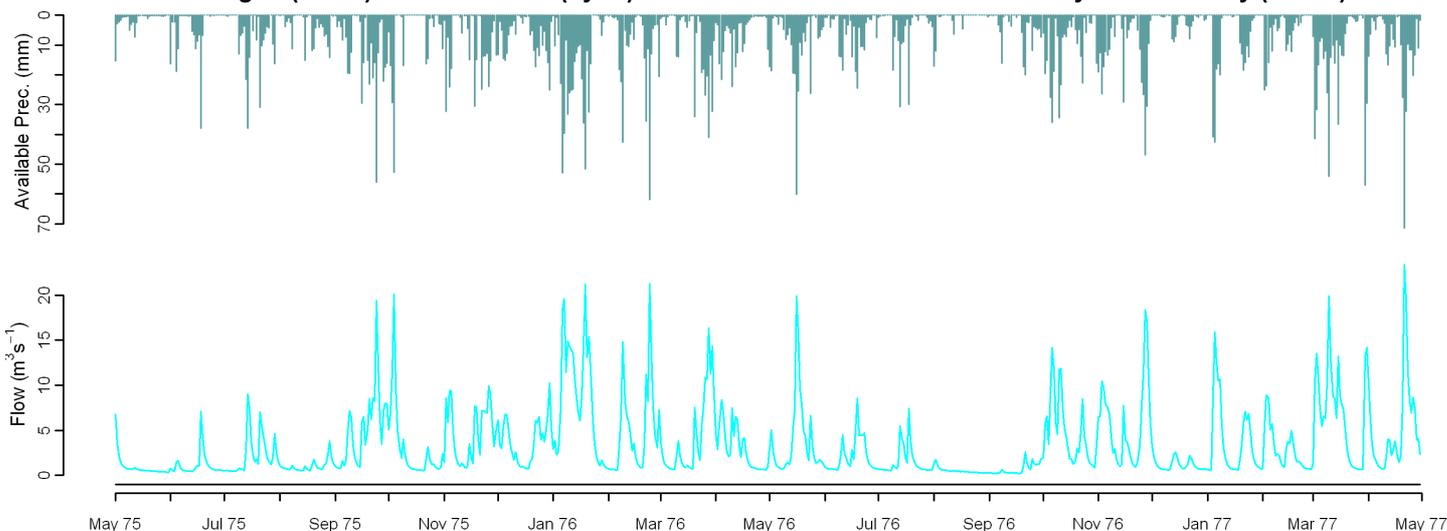
## Observed Data

## Comparison of gauged and simulated flow

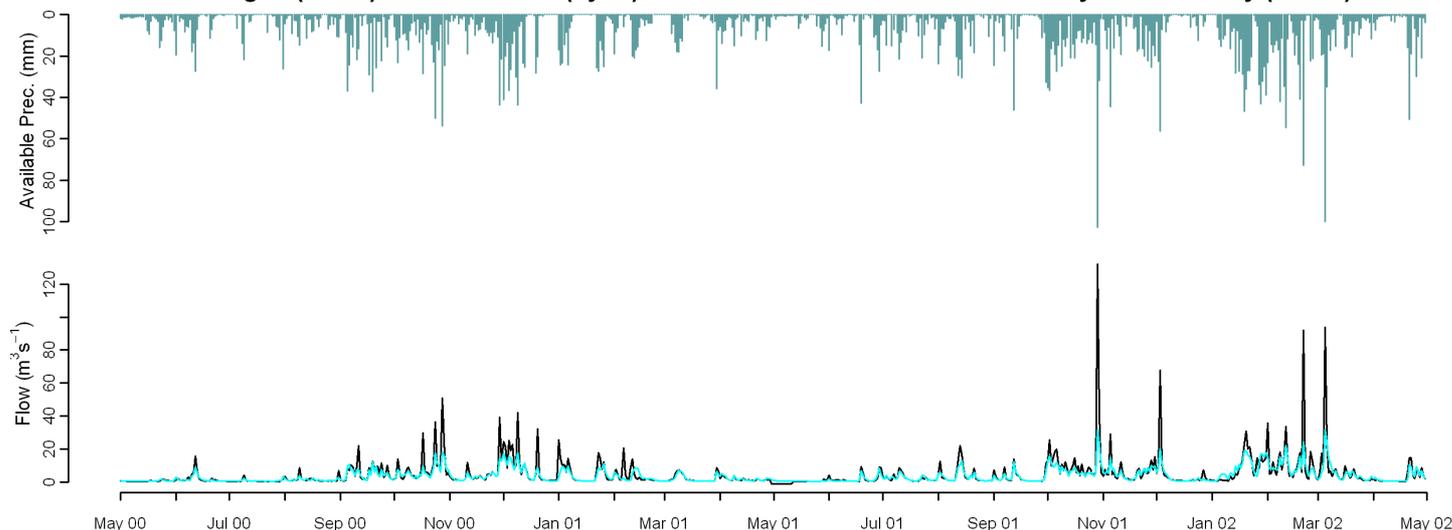
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	2.5	4.5	5.8	10.1	12.0	5.7	-6.7	-15.9	-9.8	-1.5	-2.8	3.8	1.3	0.63
Performance Band	1	1	1	2	2	1	2	2	1	1	1	1	1	2
MORECS (1962-1991)	9.3	9.9	15.7	15.5	19.2	9.7	-2.7	-13.9	-5.7	7.3	3.8	14.3	12.5	0.71
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	15.9	-7.9	6.7	3.4	4.0									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	11.7	-12.3	3.4	8.2	8.4									

Gauged (black) and simulated (cyan) flows from observed climate - Lochy at Inverlochy (89005)

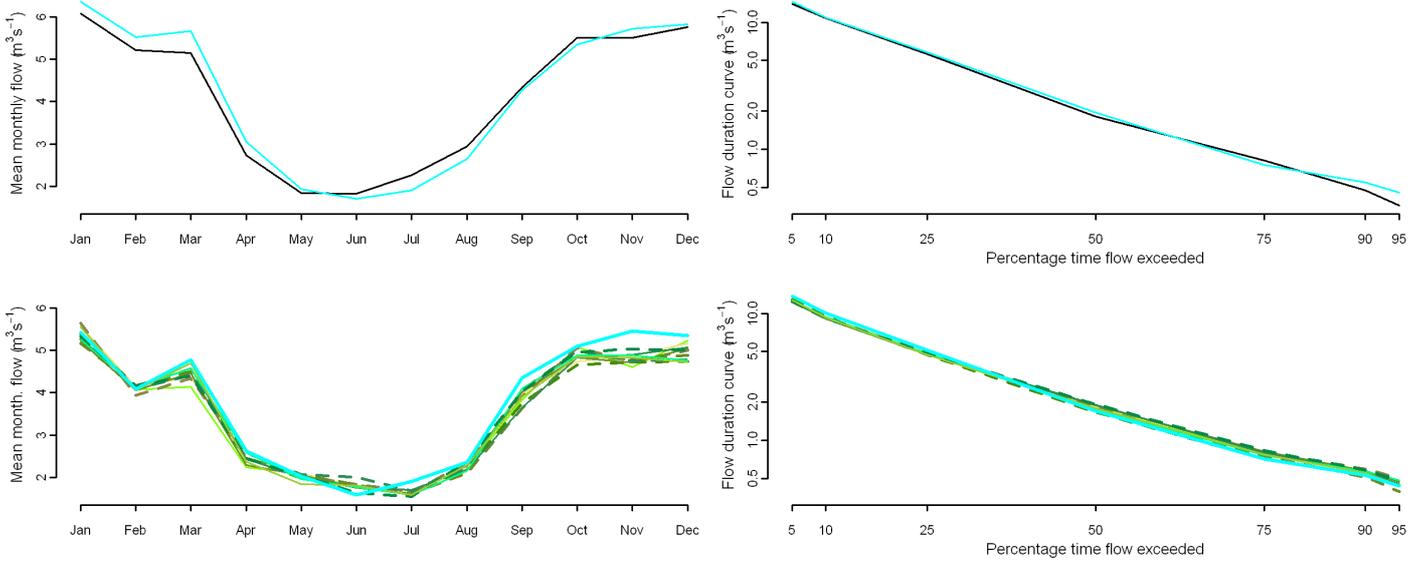


Gauged (black) and simulated (cyan) flows from observed climate - Lochy at Inverlochy (89005)



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 - Lochy at Inverlochty (89005)



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	-5	-4	-1	-5	-6	-4	-3	-4	-4	-5
January	2	1	2	2	-3	-1	-5	-1	-6	-3	8
April	-14	-6	-11	-3	-10	-7	-7	-3	-1	-6	-11
July	-11	-12	-13	-5	-15	-15	-4	-10	-17	-17	-17
October	1	-3	-7	2	-4	-3	-1	-2	-3	-2	-1
Q90	6	1	2	12	5	-3	5	9	7	10	4
Q75	10	1	5	15	11	2	10	13	8	16	8
Q50	11	-1	6	14	9	5	11	12	5	12	6
Q25	-7	-8	-5	-4	-8	-8	-7	-5	-6	-7	-8
Q5	-11	-6	-8	-8	-9	-7	-9	-8	-7	-10	-7
RP2	-3	0	-3	-3	-4	-7	-6	-1	-5	-4	1
RP10	-7	-6	-9	-8	-5	-11	-14	-4	-9	-6	-2

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Lochy at Inverlochty (89005)

