

## General Information

River Name	Clow Beck	Catchment Area (km <sup>2</sup> )	78
Station Name	Croft	SAAR (mm) 61-90	718
Station Number	25007	Mean Annual Rain (mm) 62-91	725
Grid Reference	NZ282101	Mean Annual PE (mm) 62-91	536
EA Region	EA-NE	Observed flow record	1961 to 1980



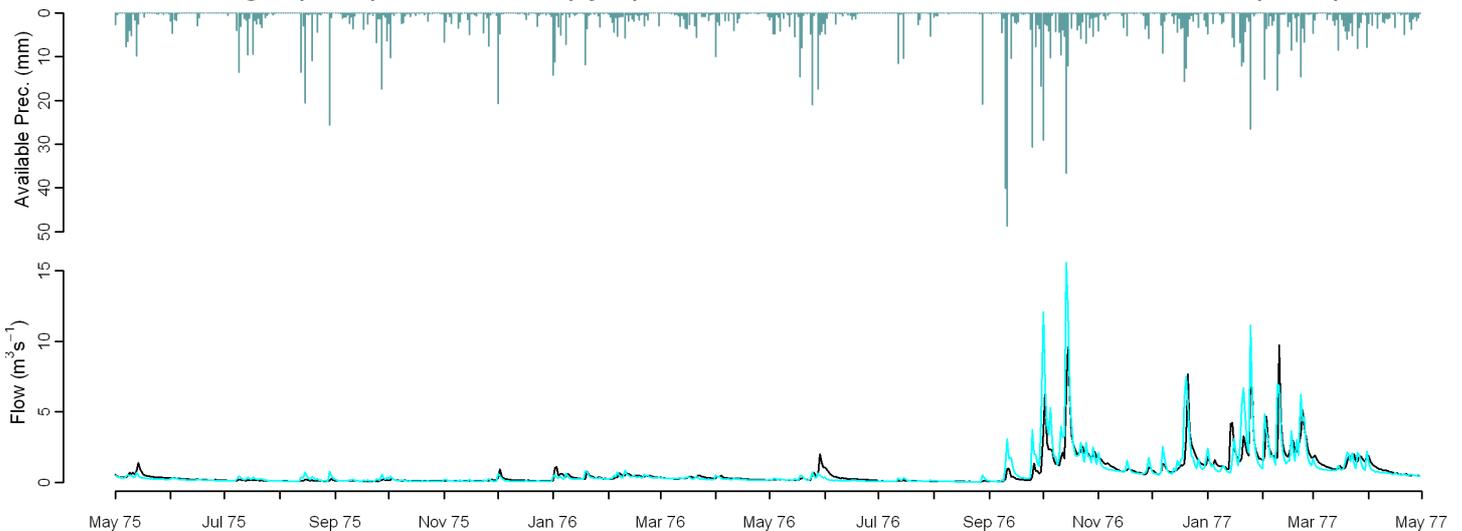
## Observed Data

## Comparison of gauged and simulated flow

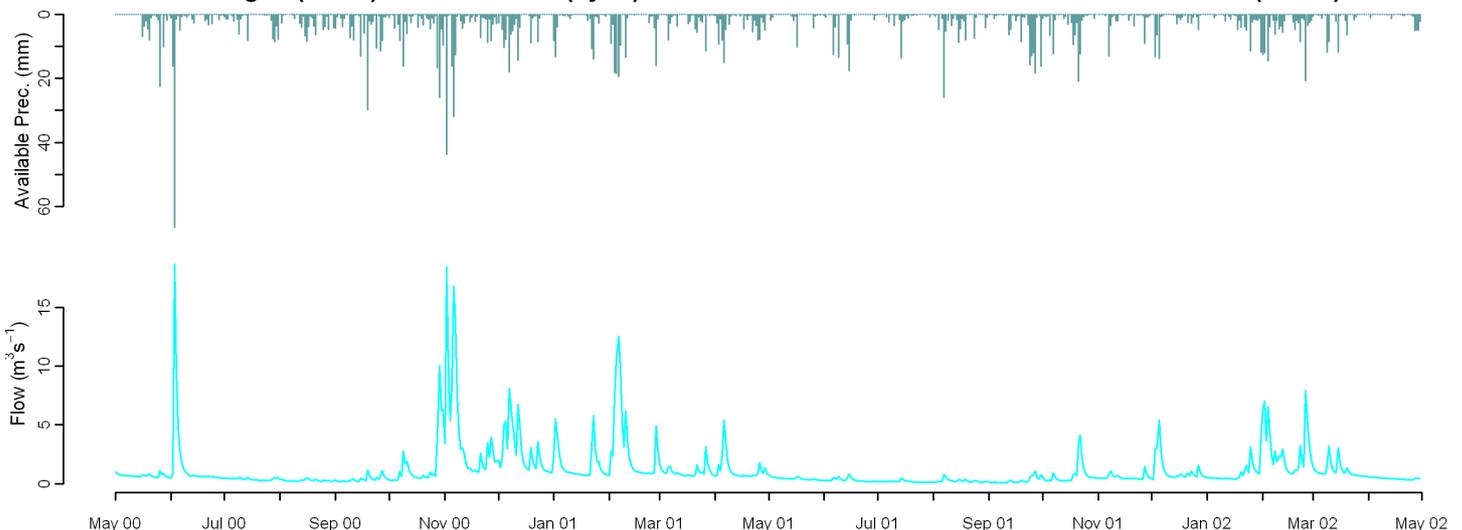
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-3.9	-1.3	-2.3	-5.7	-14.3	-26.8	-23.7	4.8	-3.1	48.0	23.8	-17.4	2.7	0.74
Performance Band	2	1	1	2	2	2	2	1	1	1	1	2	1	1
MORECS (1962-1991)	-10.5	-1.0	-3.9	-14.6	-20.7	-28.7	-15.3	-4.7	-7.0	-0.3	-4.8	-14.8	-3.4	0.71
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	-22.7	-12.1	-11.0	-19.7	5.8									
Performance Band	1	1	2	1	2									
MORECS (1962-1991)	-18.5	-8.8	-15.1	-22.3	-1.1									

Gauged (black) and simulated (cyan) flows from observed climate - Clow Beck at Croft (25007)

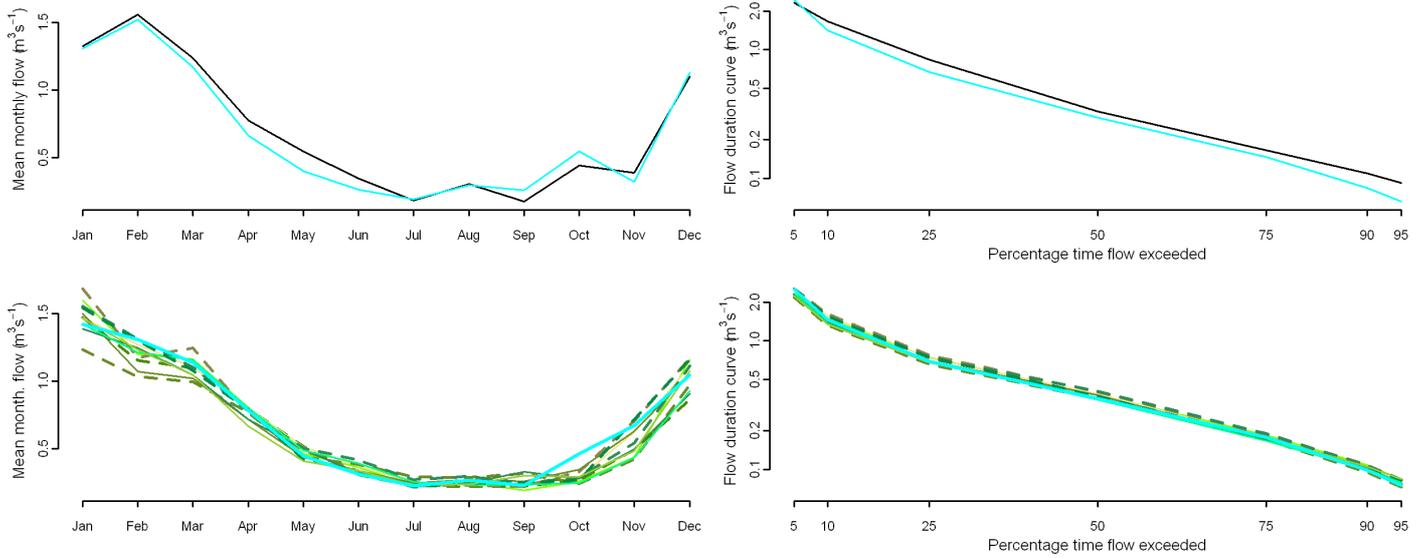


Gauged (black) and simulated (cyan) flows from observed climate - Clow Beck at Croft (25007)



## 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 - Clow Beck at Croft (25007)



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

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-2	-8	1	6	-5	-7	-10	3	-7	0	-9
January	14	-5	5	19	5	-7	-5	11	3	9	3
April	5	-10	6	2	-8	-1	-9	7	6	3	-12
July	2	6	14	3	7	31	-1	20	8	-5	3
October	-44	-40	-37	-27	-28	-47	-30	-34	-45	-42	-37
Q90	10	2	1	12	-4	-2	0	9	0	5	7
Q75	4	-3	-1	8	-7	-3	-7	10	-6	-3	0
Q50	7	-1	7	15	3	1	0	17	-3	4	-1
Q25	7	-2	6	13	0	-3	-1	9	-1	8	-3
Q5	-5	-11	0	2	-9	-10	-11	6	-7	1	-13
RP2	-6	-19	-13	-2	-9	-4	-8	-3	3	-4	3
RP10	-11	-24	-10	-12	-11	-10	1	-2	-9	-11	12

## Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Clow Beck at Croft (25007)

