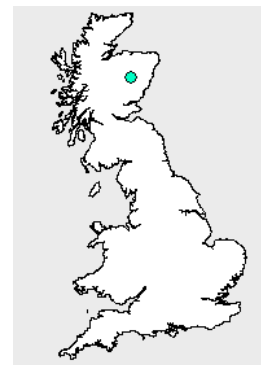


## General Information

River Name	Muick	Catchment Area (km2)	110
Station Name	Invermuick	SAAR (mm) 61-90	1240
Station Number	12005	Mean Annual Rain (mm) 62-91	1308
Grid Reference	NO364947	Mean Annual PE (mm) 62-91	444
EA Region	SEPA-NE	Observed flow record	1976 to 2005



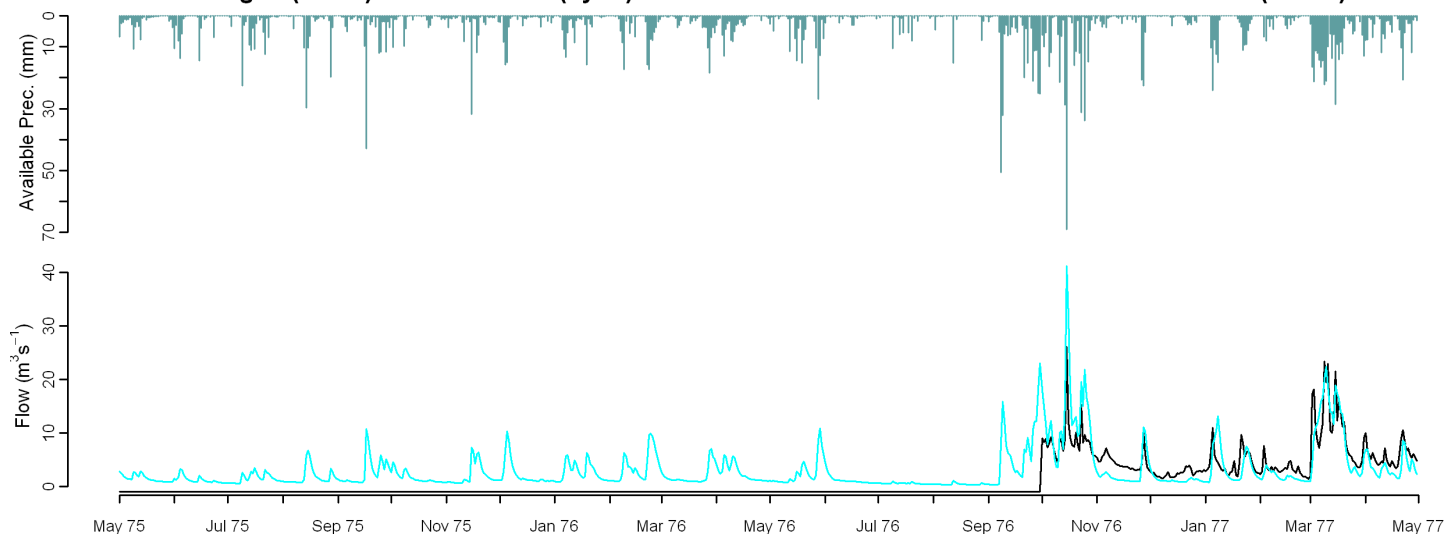
## Observed Data

## Comparison of gauged and simulated flow

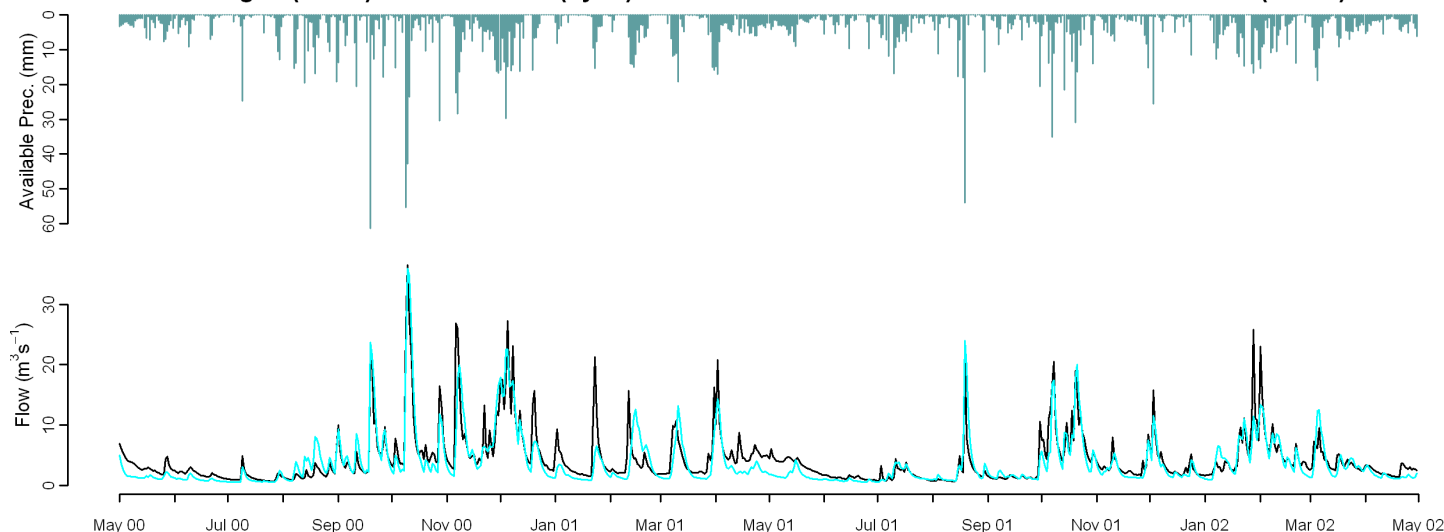
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-8.9	-15.8	-12.4	-9.8	-5.0	-21.5	-22.5	-3.4	15.8	0.5	-1.9	-10.0	-9.8	0.65
Performance Band	1	2	2	1	1	2	2	1	1	1	1	2	2	2
MORECS (1962-1991)	-3.3	-9.0	-6.8	-1.0	1.4	-12.0	-17.1	-5.7	7.0	1.8	0.9	-4.0	-4.5	0.60
	Q90	Q75	Q50	Q25	Q5									
MORECS (1971-2005)	-21.5	-33.2	-30.8	-8.8	12.6									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	-25.0	-33.0	-29.0	-2.7	22.6									

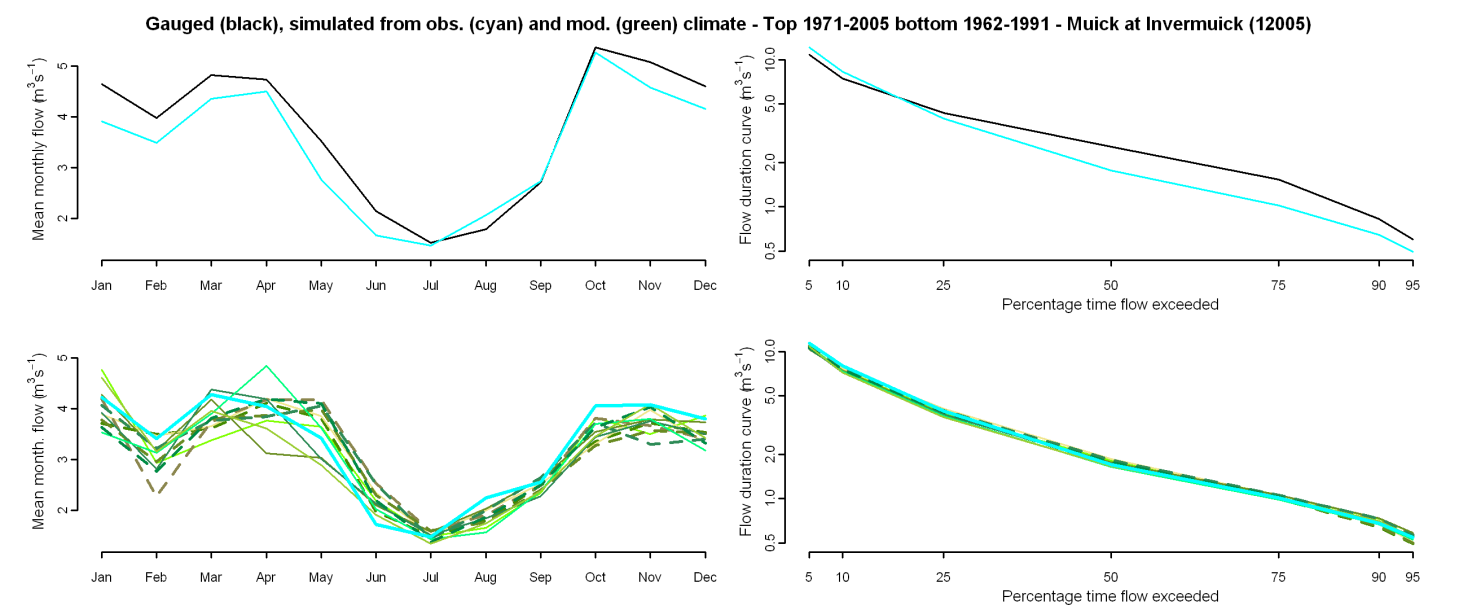
Gauged (black) and simulated (cyan) flows from observed climate - Muick at Invermuick (12005)



Gauged (black) and simulated (cyan) flows from observed climate - Muick at Invermuick (12005)



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	-3	-4	0	0	-6	-5	-5	-3	-5	-3	-6
January	15	-9	-6	-1	1	-7	-9	-8	-21	-12	13
April	-9	0	8	3	-22	-5	3	-2	22	10	-17
July	0	3	10	11	6	-4	5	-2	-2	-9	-10
October	-5	-15	-18	0	-12	-15	-10	-12	-5	-9	-8
Q90	7	-5	0	5	4	-4	-1	5	-4	0	2
Q75	5	-1	4	5	2	-1	0	4	-4	1	0
Q50	7	0	10	5	0	0	2	7	-4	2	-3
Q25	-4	-2	3	-2	-7	-3	-4	1	-8	-2	-8
Q5	-8	-8	-6	-3	-11	-9	-5	-9	-5	-7	-6
RP2	-5	-7	-8	-5	3	-6	1	-4	1	-5	1
RP10	-9	-6	-18	-15	2	-23	-1	-13	-8	-7	-10

Climate change graphs for 2050s

