

## General Information

River Name	Tweed	Catchment Area (km2)	694
Station Name	Peebles	SAAR (mm) 61-90	1140
Station Number	21003	Mean Annual Rain (mm) 62-91	1161
Grid Reference	NT257400	Mean Annual PE (mm) 62-91	461
EA Region	SEPA-SE	Observed flow record	1961 to 2005



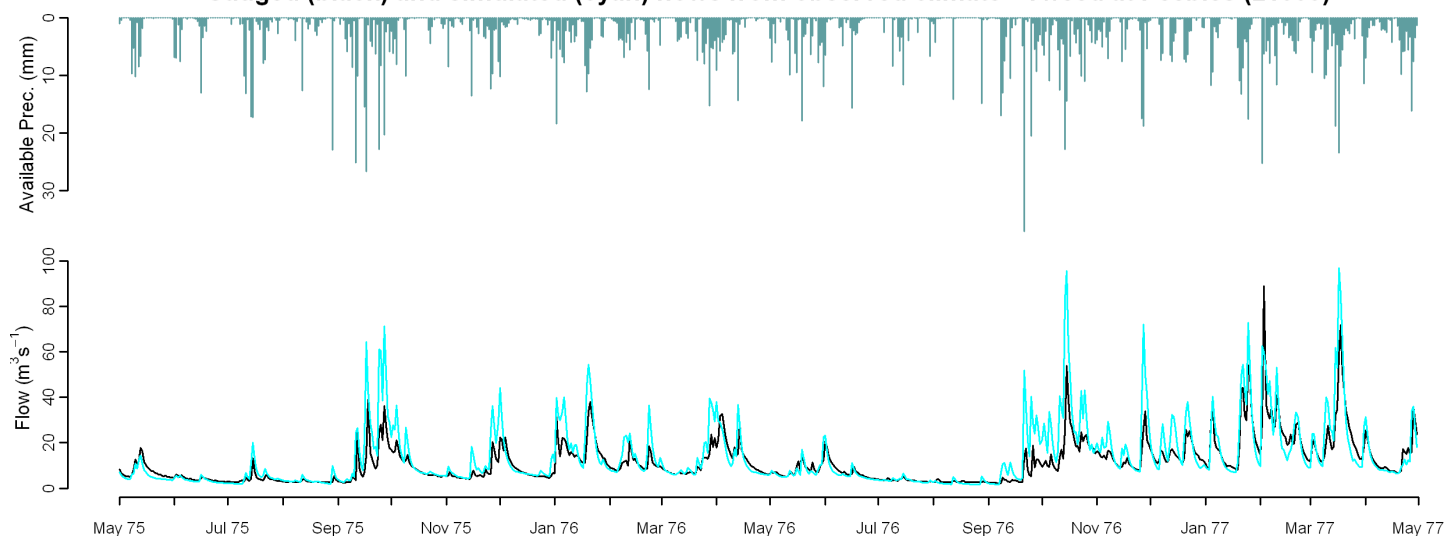
## Observed Data

## Comparison of gauged and simulated flow

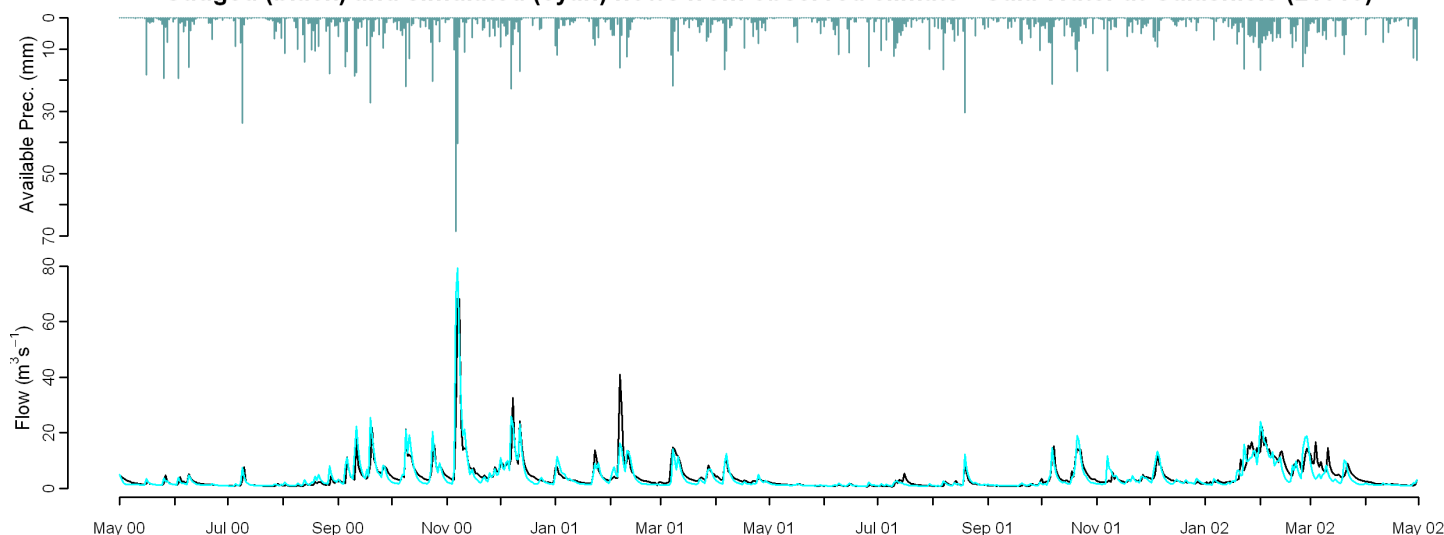
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	14.9	12.1	9.9	10.5	-0.2	-8.8	-6.6	3.4	17.7	33.5	41.5	22.6	18.6	0.62
Performance Band	2	2	1	1	1	1	1	1	2	3	2	2	2	2
MORECS (1962-1991)	13.5	13.4	7.3	8.5	-3.9	-10.3	-6.4	5.1	15.9	31.7	33.2	19.3	17.4	0.64
	Q90	Q75	Q50	Q25	Q5									
MORECS (1971-2005)	-9.6	-1.6	-7.5	12.6	36.7									
Performance Band	1	1	2	3	3									
MORECS (1962-1991)	-8.0	-3.2	-8.3	10.5	32.4									

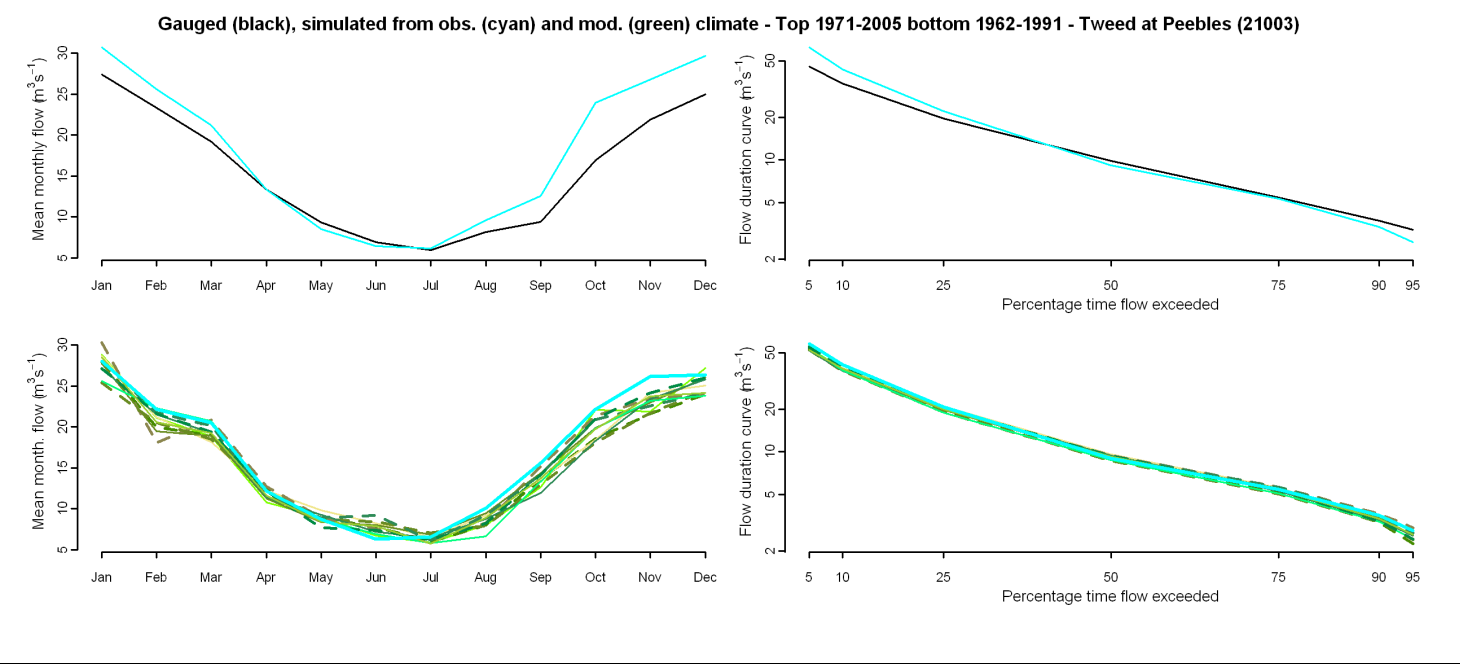
Gauged (black) and simulated (cyan) flows from observed climate - Tweed at Peebles (21003)



Gauged (black) and simulated (cyan) flows from observed climate - Gala Water at Galashiels (21013)



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	-4	-5	-3	0	-5	-7	-6	-2	-6	-3	-5
January	3	0	3	6	-1	-5	-6	1	-8	-6	5
April	-9	-3	4	10	-7	-1	-4	0	0	2	-5
July	-9	-1	-2	-3	4	-5	0	-6	-10	-6	-12
October	-1	-11	-19	0	-10	-18	-7	-9	-11	-4	-8
Q90	-2	-8	-7	3	-9	-11	-9	-2	-9	-13	-7
Q75	1	-3	1	6	-1	-9	-4	3	-7	-2	-1
Q50	2	-2	6	7	1	-3	5	5	-2	4	3
Q25	-2	-6	0	-1	-5	-8	-2	0	-8	-2	-3
Q5	-8	-7	-9	-4	-8	-8	-10	-3	-6	-5	-9
RP2	-11	-8	-10	-7	-6	-3	-11	-12	-6	-10	-9
RP10	-14	-2	-7	-12	9	-9	-11	-4	-3	-3	-2

Climate change graphs for 2050s

