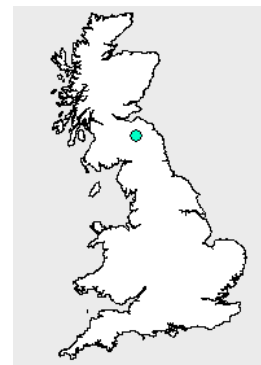


## General Information

River Name	Tweed	Catchment Area (km2)	1500
Station Name	Boleside	SAAR (mm) 61-90	1164
Station Number	21006	Mean Annual Rain (mm) 62-91	1185
Grid Reference	NT498334	Mean Annual PE (mm) 62-91	455
EA Region	SEPA-SE	Observed flow record	1961 to 2006



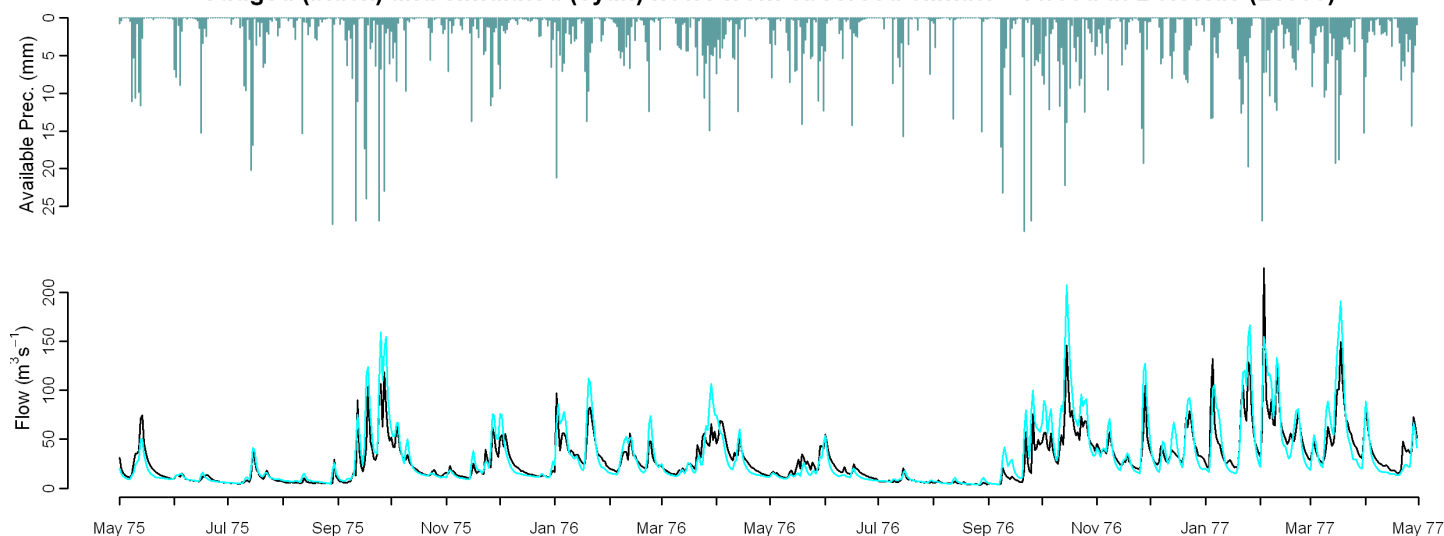
## Observed Data

## Comparison of gauged and simulated flow

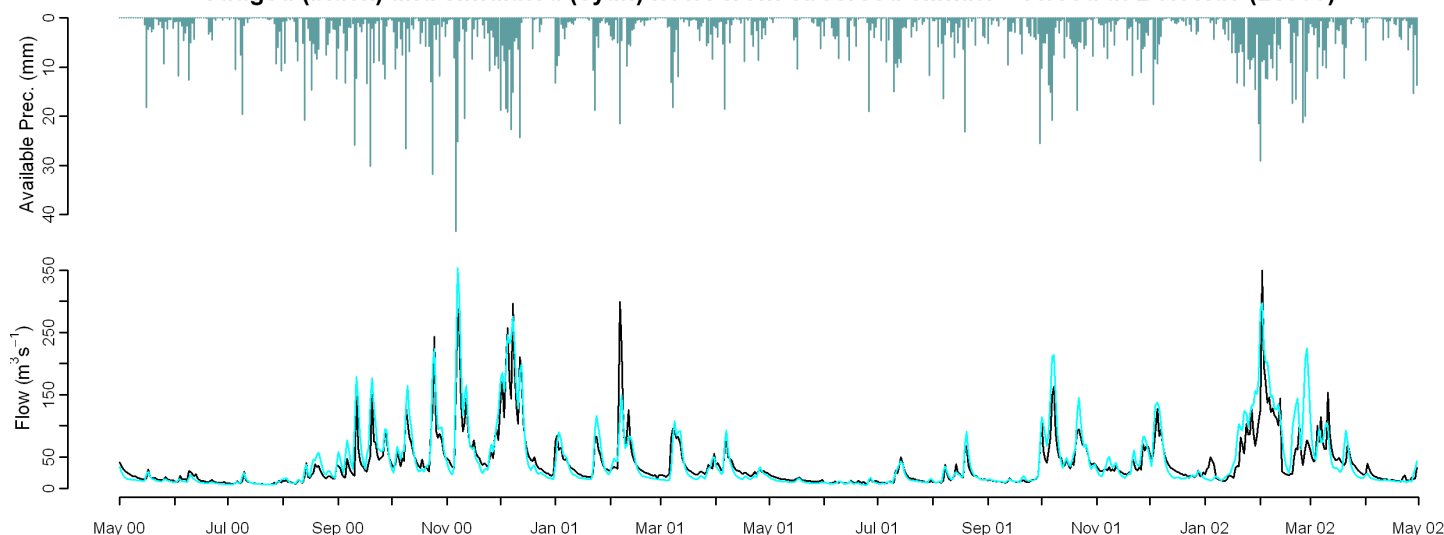
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	8.0	7.8	5.7	4.1	-5.0	-13.2	-10.6	-0.6	7.3	17.2	25.7	18.5	13.4	0.75
Performance Band	1	1	1	1	1	2	1	1	1	2	2	2	2	1
MORECS (1962-1991)	7.0	9.7	3.3	3.6	-8.3	-13.5	-9.3	1.6	8.9	17.5	18.6	16.0	10.4	0.75
	Q90	Q75	Q50	Q25	Q5									
MORECS (1971-2005)	-8.7	-7.1	-15.5	6.6	27.4									
Performance Band	1	1	2	2	2									
MORECS (1962-1991)	-5.4	-7.3	-16.8	5.3	24.9									

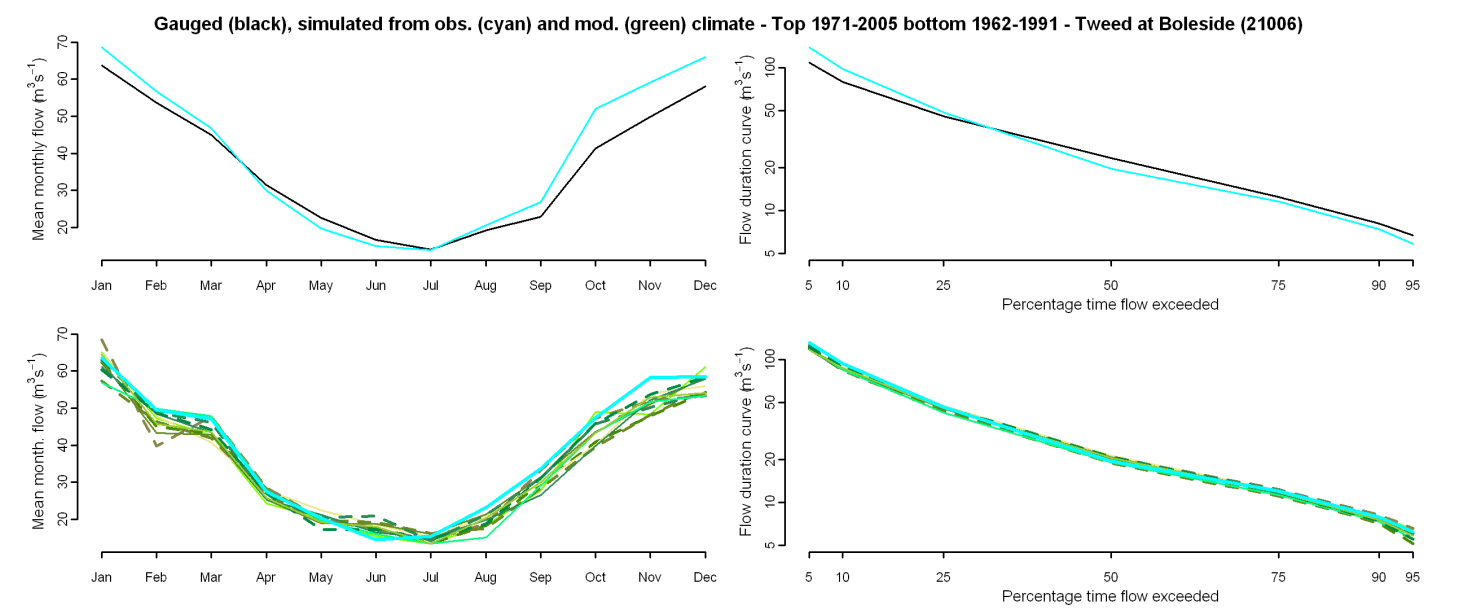
Gauged (black) and simulated (cyan) flows from observed climate - Tweed at Boleside (21006)



Gauged (black) and simulated (cyan) flows from observed climate - Tweed at Boleside (21006)



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	-1	-6	-3	-5
January	3	-2	3	6	-1	-6	-7	0	-10	-8	5
April	-9	-3	6	10	-7	-2	-6	0	1	1	-6
July	-10	-4	-4	-3	4	-6	-1	-7	-11	-6	-13
October	2	-9	-18	3	-8	-16	-5	-7	-9	-2	-7
Q90	1	-7	-7	4	-8	-9	-7	-1	-8	-11	-6
Q75	1	-3	0	4	-2	-9	-4	2	-6	-2	-2
Q50	4	-1	9	9	3	-2	7	7	-1	7	5
Q25	-1	-4	1	-1	-4	-7	-2	0	-9	-1	-2
Q5	-10	-8	-11	-6	-9	-8	-11	-4	-8	-8	-12
RP2	-11	-5	-8	-5	-2	-5	-8	-8	-4	-9	-4
RP10	-9	6	0	-6	17	-3	-3	4	7	2	5

Climate change graphs for 2050s

