

General Information

River Name	Tweed	Catchment Area (km ²)	4390
Station Name	Norham	SAAR (mm) 61-90	955
Station Number	21009	Mean Annual Rain (mm) 62-91	970
Grid Reference	NT898477	Mean Annual PE (mm) 62-91	487
EA Region	SEPA-SE	Observed flow record	1962 to 2006



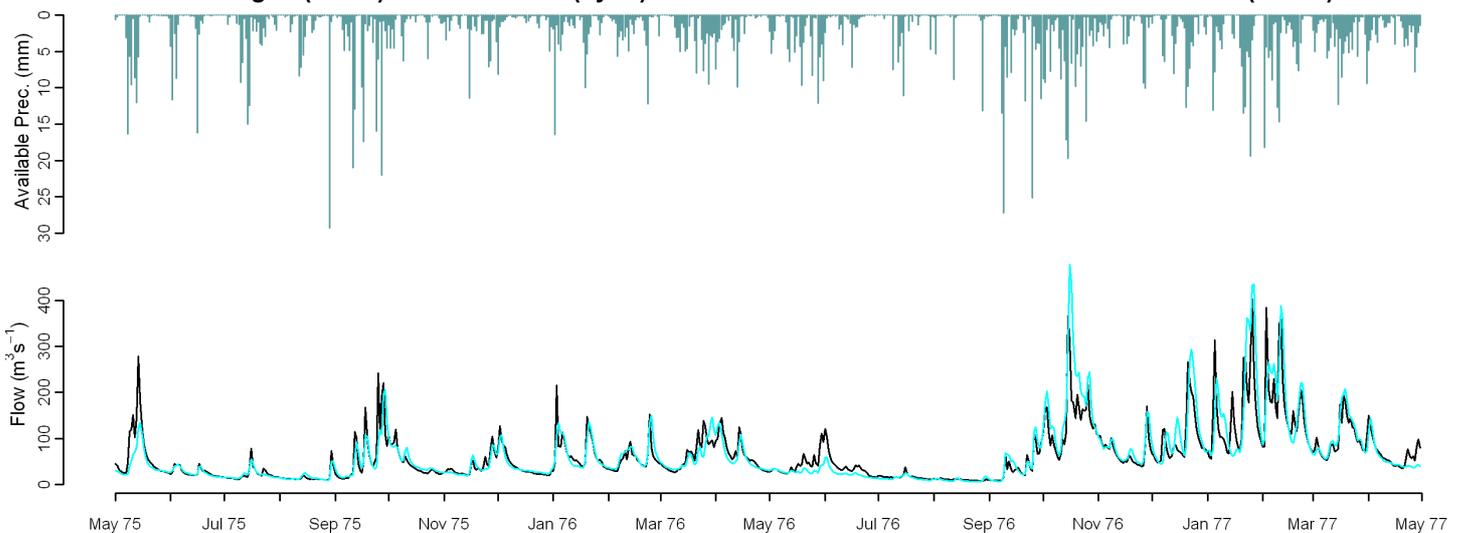
Observed Data

Comparison of gauged and simulated flow

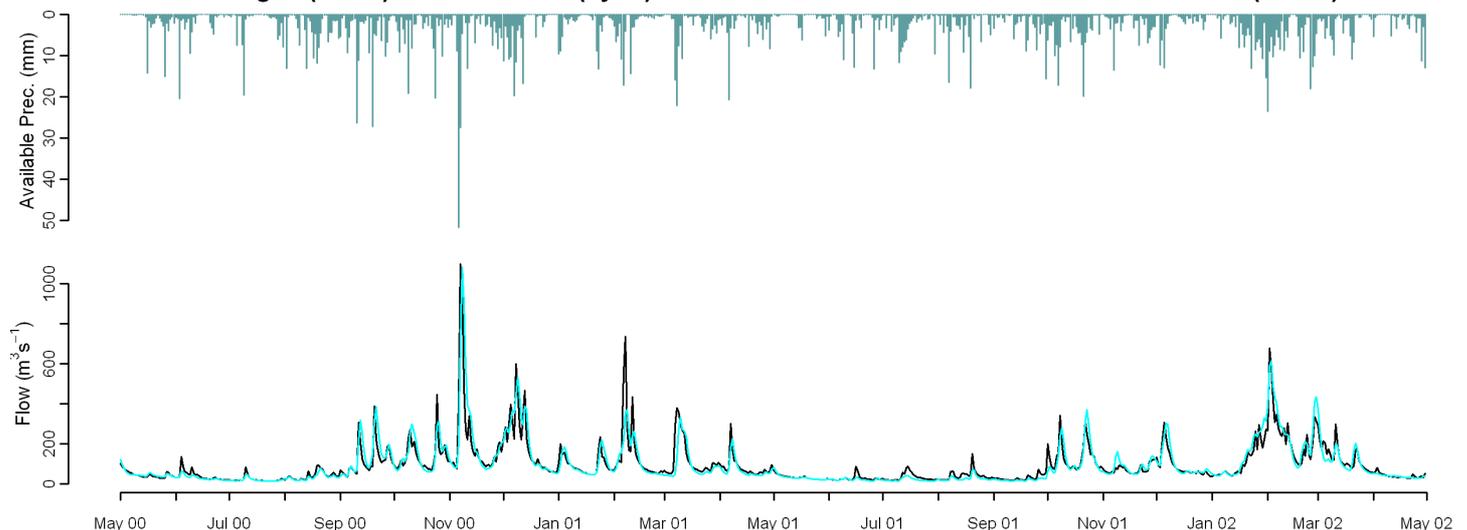
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	0.1	3.7	2.8	-2.9	-4.8	-18.5	-17.5	-13.9	-9.3	-7.2	3.5	10.4	8.7	0.73
Performance Band	1	1	1	1	1	2	2	2	2	1	1	1	1	1
MORECS (1962-1991)	-2.2	3.4	1.9	-3.6	-8.3	-19.8	-18.3	-15.9	-7.1	-7.4	-0.9	7.5	3.4	0.68
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-13.8	-10.9	-9.6	-3.8	13.2									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	-11.4	-9.5	-11.4	-6.8	10.2									

Gauged (black) and simulated (cyan) flows from observed climate - Tweed at Norham (21009)

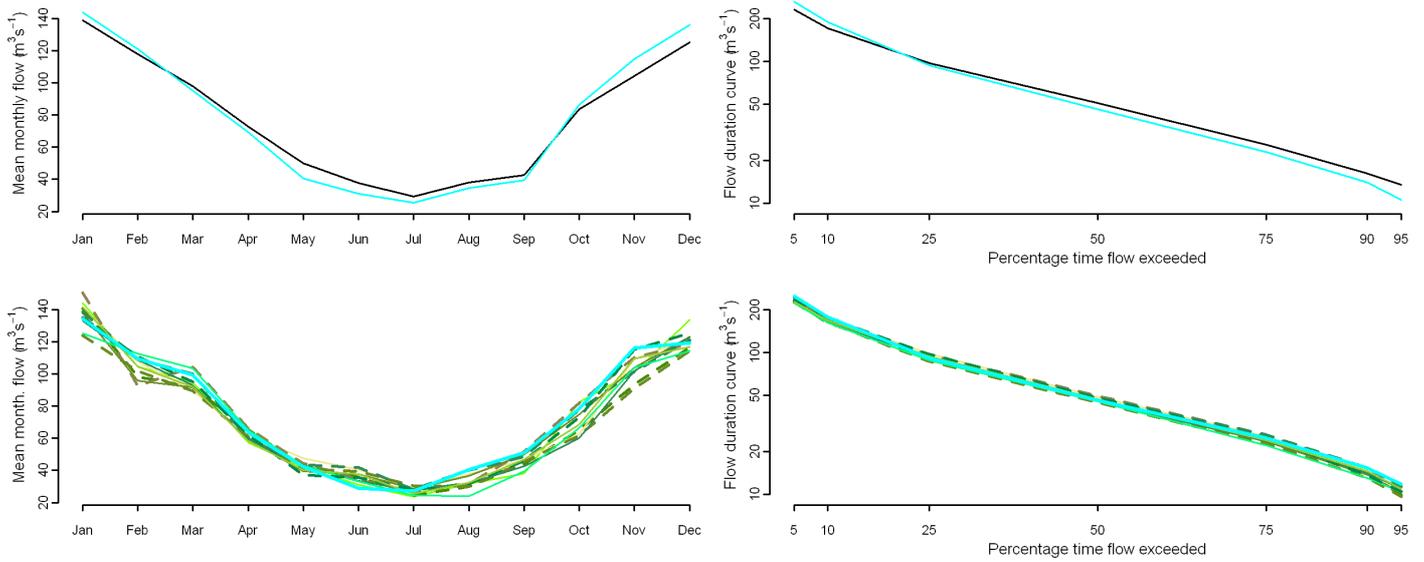


Gauged (black) and simulated (cyan) flows from observed climate - Tweed at Norham (21009)



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 - Tweed at Norham (21009)



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

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-1	-4	1	4	-3	-6	-5	2	-5	0	-4
January	8	2	6	11	3	-4	-4	5	-6	-1	8
April	-8	-5	2	11	-6	-3	-5	2	3	1	-6
July	-10	0	5	-1	4	1	3	3	-11	2	-6
October	6	-15	-21	8	-7	-21	-12	-5	-16	-6	-10
Q90	1	-8	-6	-1	-15	-16	-9	0	-15	-14	-5
Q75	-1	-3	1	5	-9	-11	-5	6	-13	-1	-4
Q50	0	-2	5	8	-3	-4	0	6	-2	3	1
Q25	2	-2	7	6	-1	-3	2	7	-3	6	1
Q5	-6	-10	-8	0	-6	-8	-9	-1	-10	-7	-10
RP2	-3	2	0	1	6	-4	-4	0	0	0	-2
RP10	-11	1	-7	-11	10	-9	-13	1	1	-5	3

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Tweed at Norham (21009)

