

General Information

River Name	Tweed	Catchment Area (km ²)	3330
Station Name	Sprouston	SAAR (mm) 61-90	1014
Station Number	21021	Mean Annual Rain (mm) 62-91	1029
Grid Reference	NT752354	Mean Annual PE (mm) 62-91	475
EA Region	SEPA-SE	Observed flow record	1969 to 2004



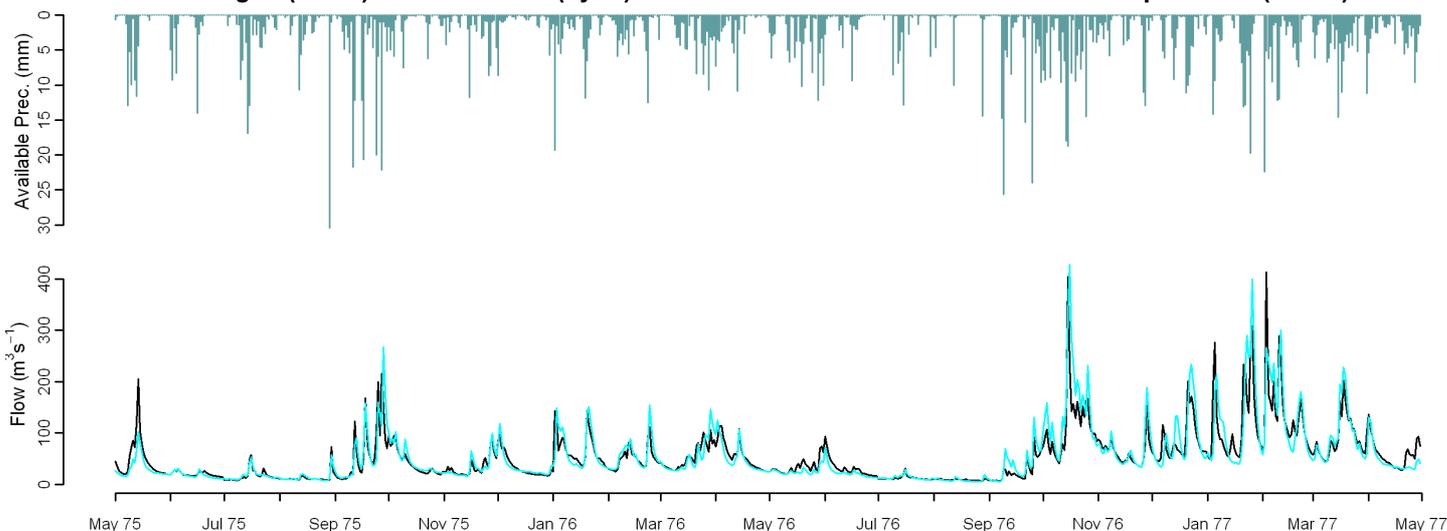
Observed Data

Comparison of gauged and simulated flow

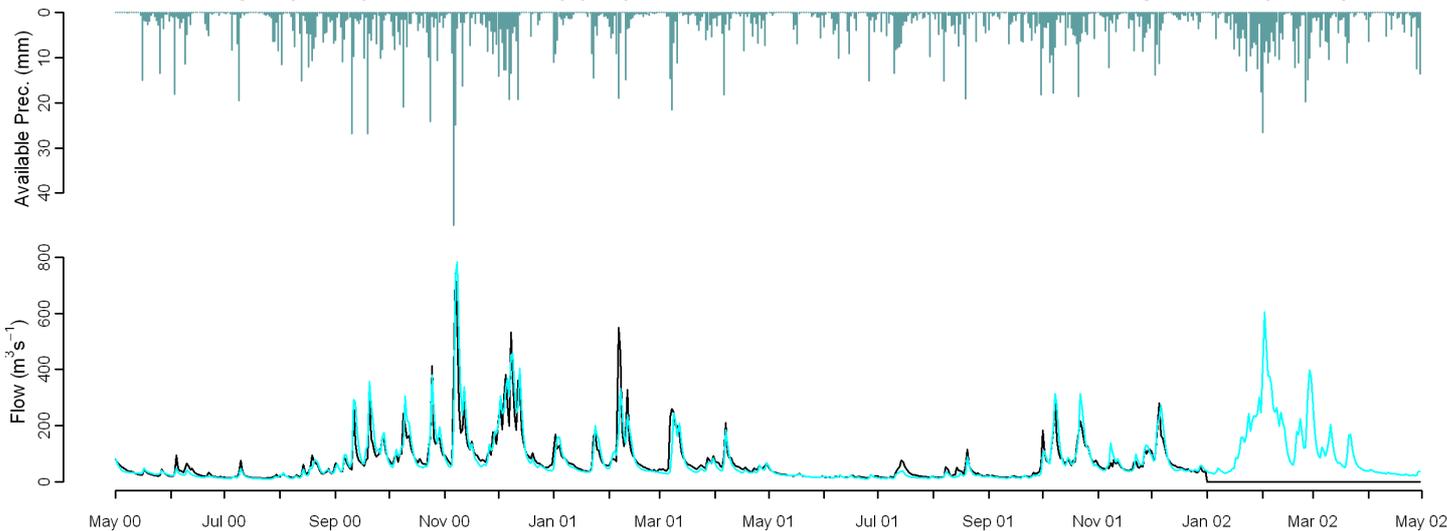
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	3.2	5.1	3.9	-0.4	-3.9	-14.2	-14.4	-8.8	-4.1	1.7	11.0	14.1	9.6	0.76
Performance Band	1	1	1	1	1	2	2	1	2	1	1	2	2	1
MORECS (1962-1991)	2.2	3.5	3.6	1.6	-5.6	-17.2	-14.9	-9.0	-3.9	-0.6	7.8	13.7	8.2	0.76
	Q90	Q75	Q50	Q25	Q5			RP2	RP5	RP10	RP20			
MORECS (1971-2005)	-8.0	-4.2	-11.7	-2.3	17.7									
Performance Band	1	1	1	2	1									
MORECS (1962-1991)	-5.4	-2.5	-8.4	-1.6	13.7									

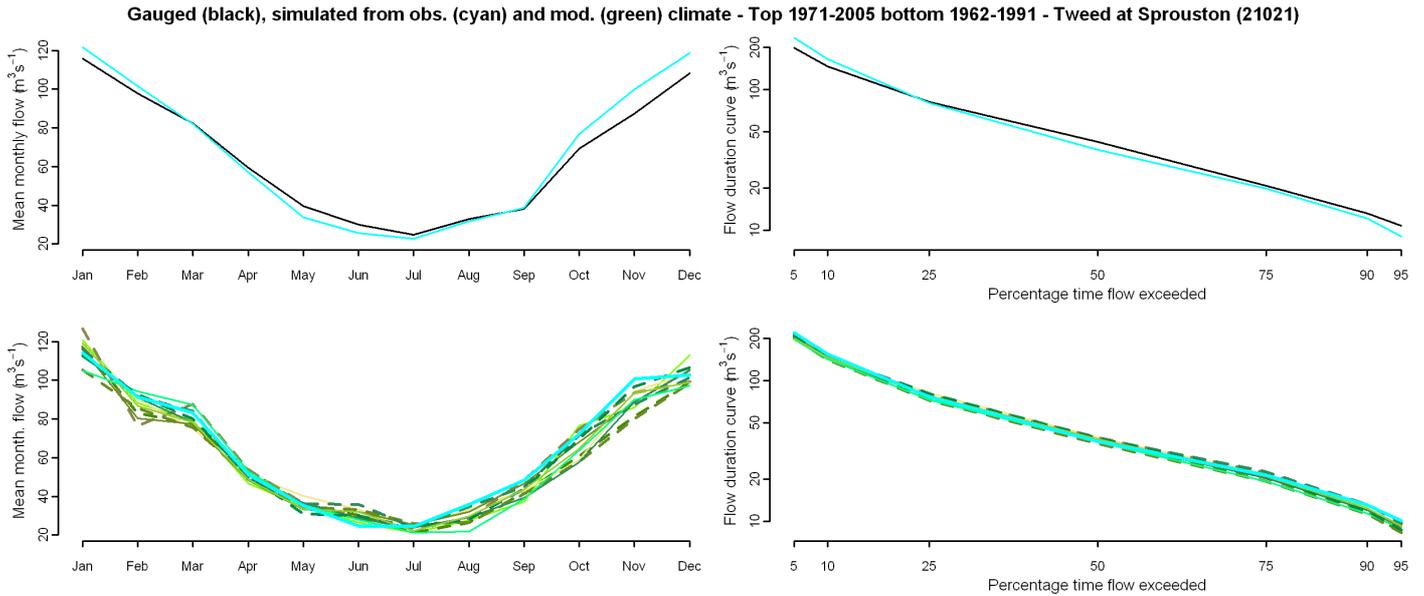
Gauged (black) and simulated (cyan) flows from observed climate - Tweed at Sprouston (21021)



Gauged (black) and simulated (cyan) flows from observed climate - Tweed at Sprouston (21021)



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	-2	-4	0	3	-3	-6	-5	2	-5	-1	-4
January	6	1	4	9	2	-3	-4	3	-7	-4	8
April	-7	-3	4	12	-5	-1	-3	3	3	2	-4
July	-10	-3	1	-3	3	-5	0	-1	-13	-2	-10
October	6	-13	-20	8	-7	-19	-8	-5	-12	-3	-8
Q90	0	-8	-7	-1	-13	-15	-10	-1	-14	-14	-6
Q75	-1	-4	1	5	-8	-12	-6	5	-11	-2	-3
Q50	1	-1	6	8	-1	-3	3	7	-1	5	2
Q25	2	-3	5	5	-2	-4	2	5	-4	5	1
Q5	-7	-10	-8	-1	-7	-8	-8	-2	-10	-7	-10
RP2	-8	-2	-2	-2	1	-5	-6	-5	-2	-3	-5
RP10	-10	0	-4	-10	11	-9	-13	-1	3	-1	2

Climate change graphs for 2050s

