

General Information

River Name	South Tyne	Catchment Area (km2)	322
Station Name	Featherstone	SAAR (mm) 61-90	1330
Station Number	23006	Mean Annual Rain (mm) 62-91	1370
Grid Reference	NY672611	Mean Annual PE (mm) 62-91	475
EA Region	EA-NE	Observed flow record	1966 to 2005



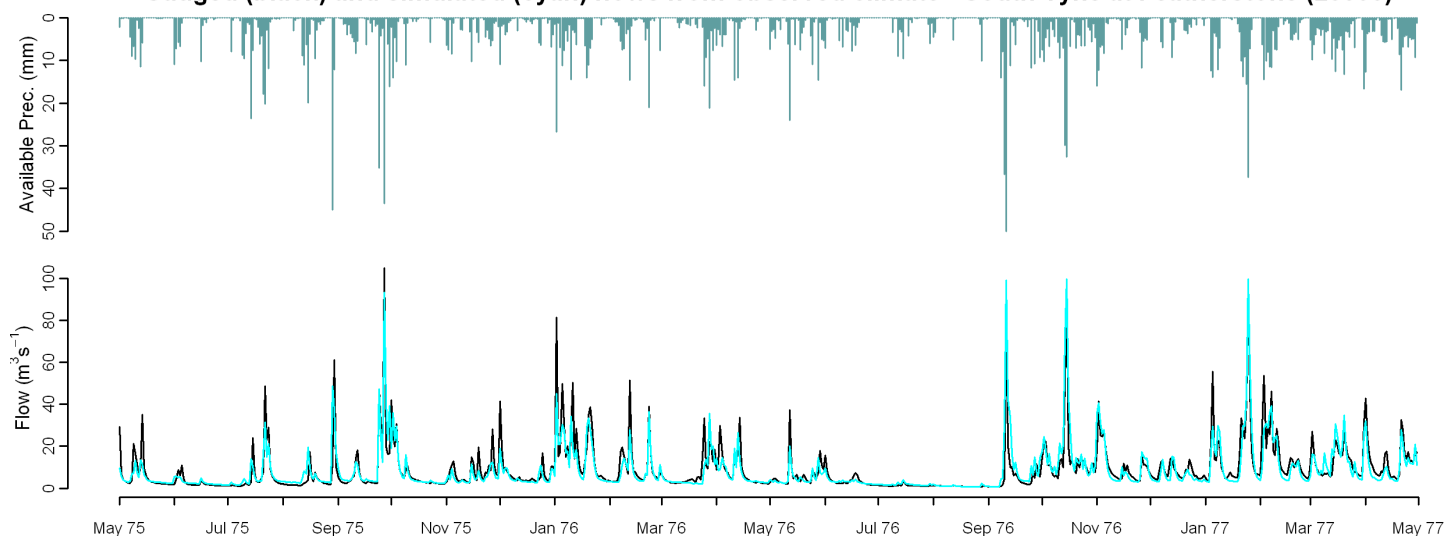
Observed Data

Comparison of gauged and simulated flow

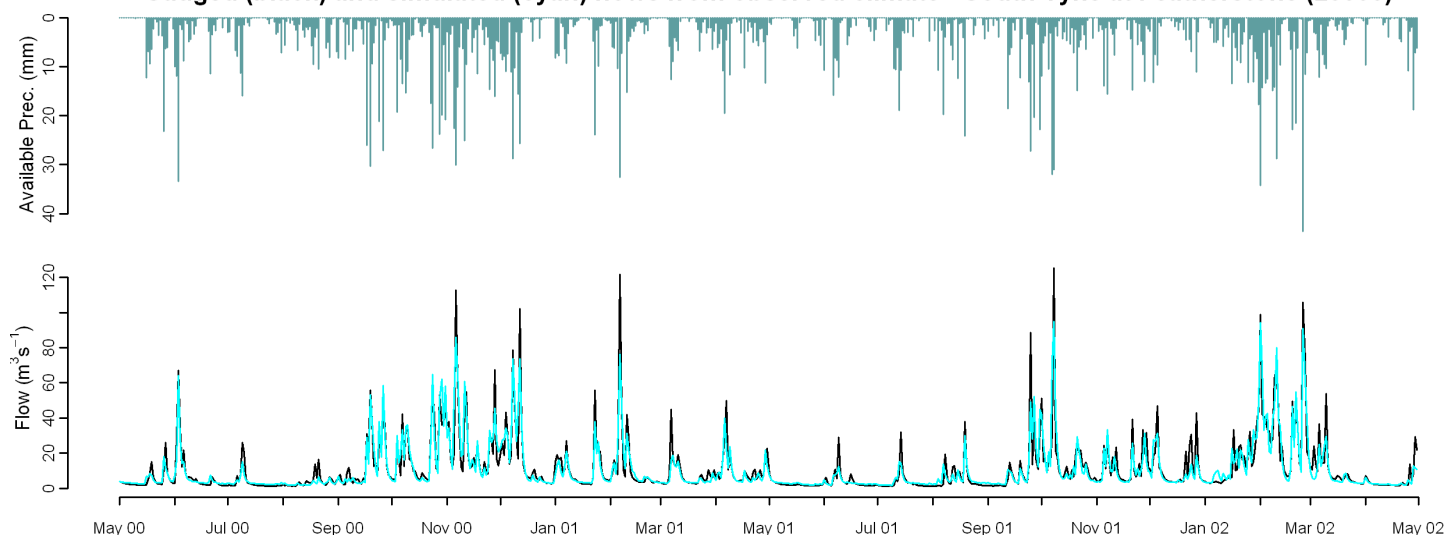
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-2.8	-8.5	-4.4	-7.0	-11.8	-13.9	-4.6	0.0	5.9	7.3	4.1	0.6	-0.3	0.76
Performance Band	1	1	1	1	1	2	1	1	1	1	1	1	1	1
MORECS (1962-1991)	-2.5	-9.9	-9.4	-6.0	-5.8	-13.0	-5.9	3.0	8.4	9.8	5.3	1.9	-3.7	0.73
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	34.7	9.7	-16.8	-3.6	-1.2									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	30.3	6.7	-16.8	-1.5	-2.4									

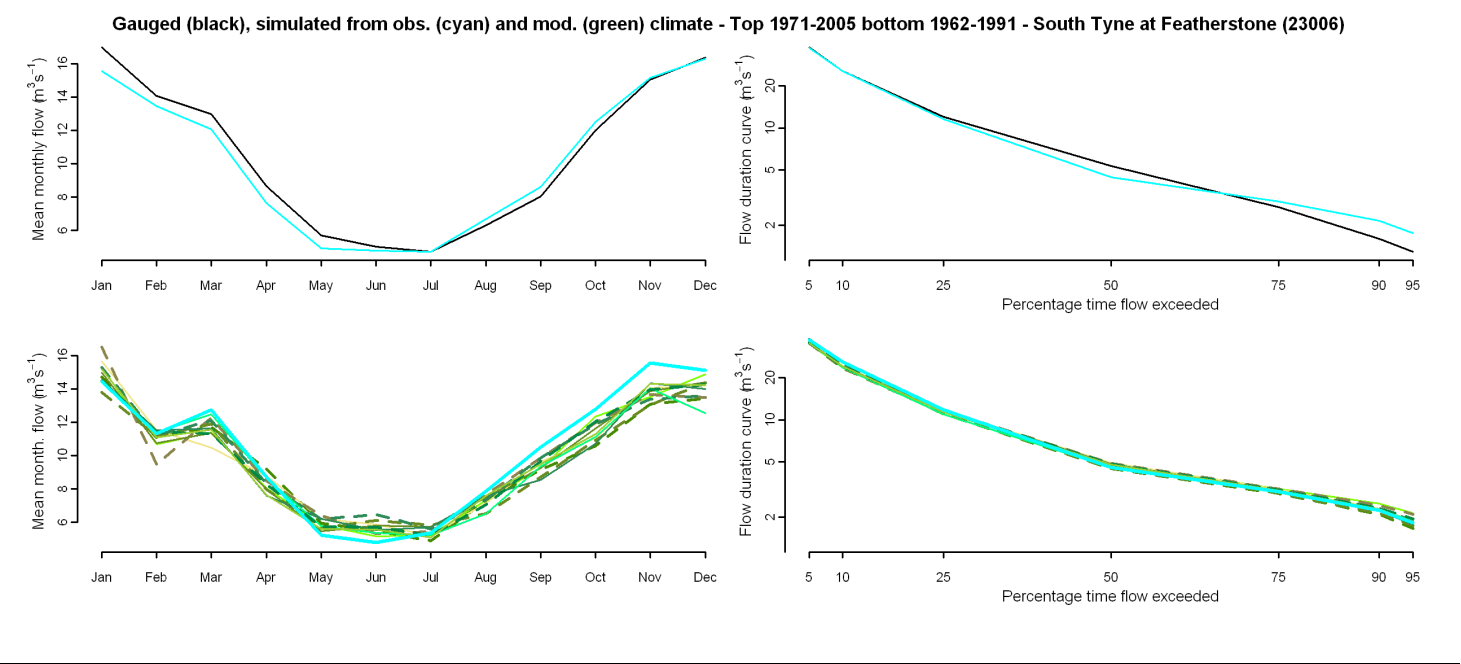
Gauged (black) and simulated (cyan) flows from observed climate - South Tyne at Featherstone (23006)



Gauged (black) and simulated (cyan) flows from observed climate - South Tyne at Featherstone (23006)



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

Climate change graphs for 2050s

