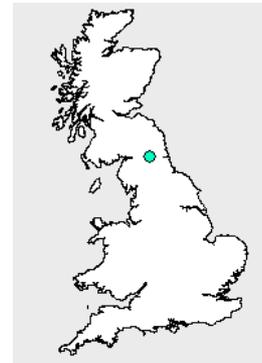


General Information

River Name	South Tyne	Catchment Area (km ²)	751
Station Name	Haydon Bridge	SAAR (mm) 61-90	1146
Station Number	23004	Mean Annual Rain (mm) 62-91	1165
Grid Reference	NY856647	Mean Annual PE (mm) 62-91	488
EA Region	EA-NE	Observed flow record	1962 to 2006



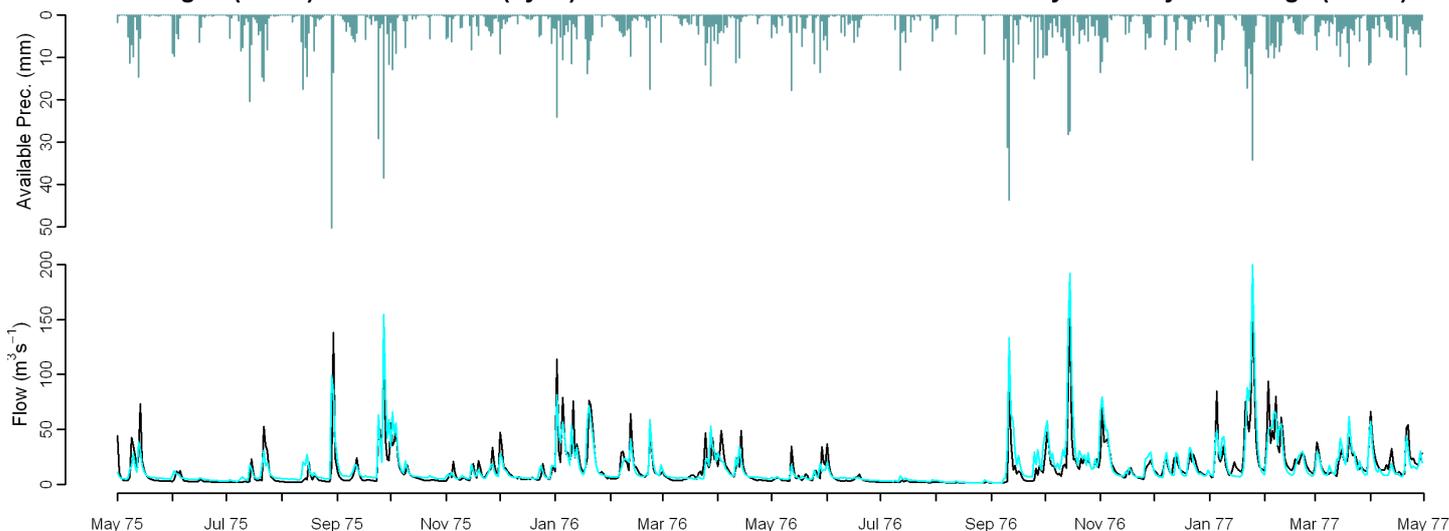
Observed Data

Comparison of gauged and simulated flow

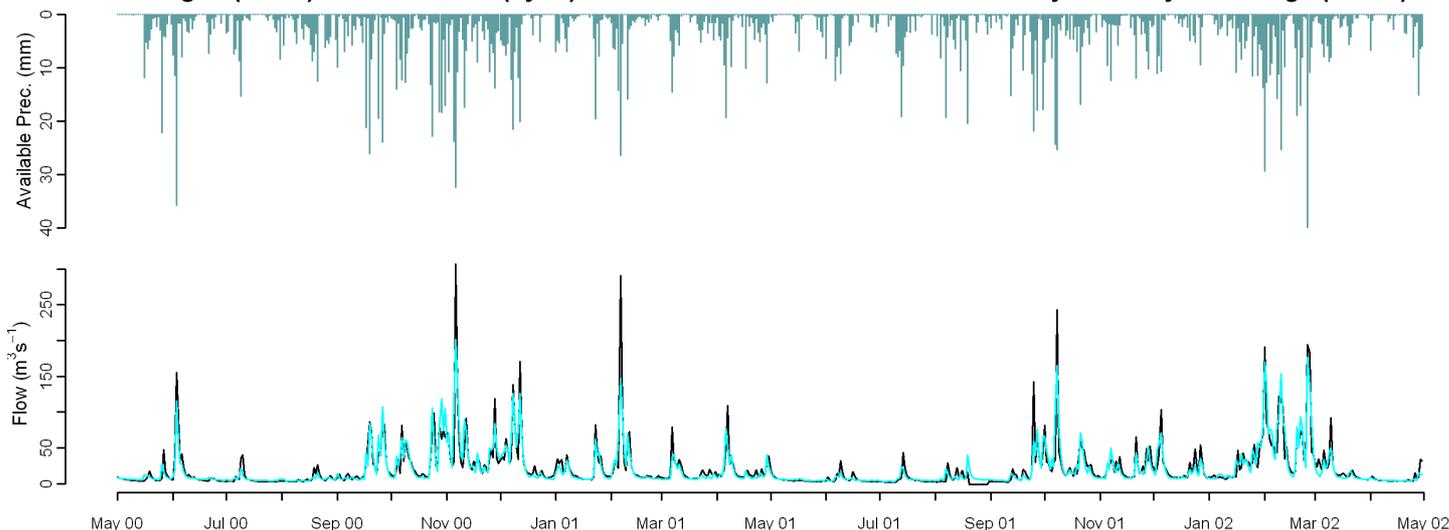
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	2.4	-3.6	-0.8	-5.2	-9.5	-9.8	-1.3	5.7	12.2	12.3	11.2	7.9	4.7	0.76
Performance Band	1	1	1	1	1	1	1	1	1	2	1	1	1	1
MORECS (1962-1991)	1.3	-4.8	-5.6	-3.4	-6.9	-9.1	-2.2	5.9	11.6	13.8	9.8	6.9	1.1	0.73
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	56.2	27.6	-11.1	-3.7	5.0									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	52.9	24.3	-13.1	-1.9	3.0									

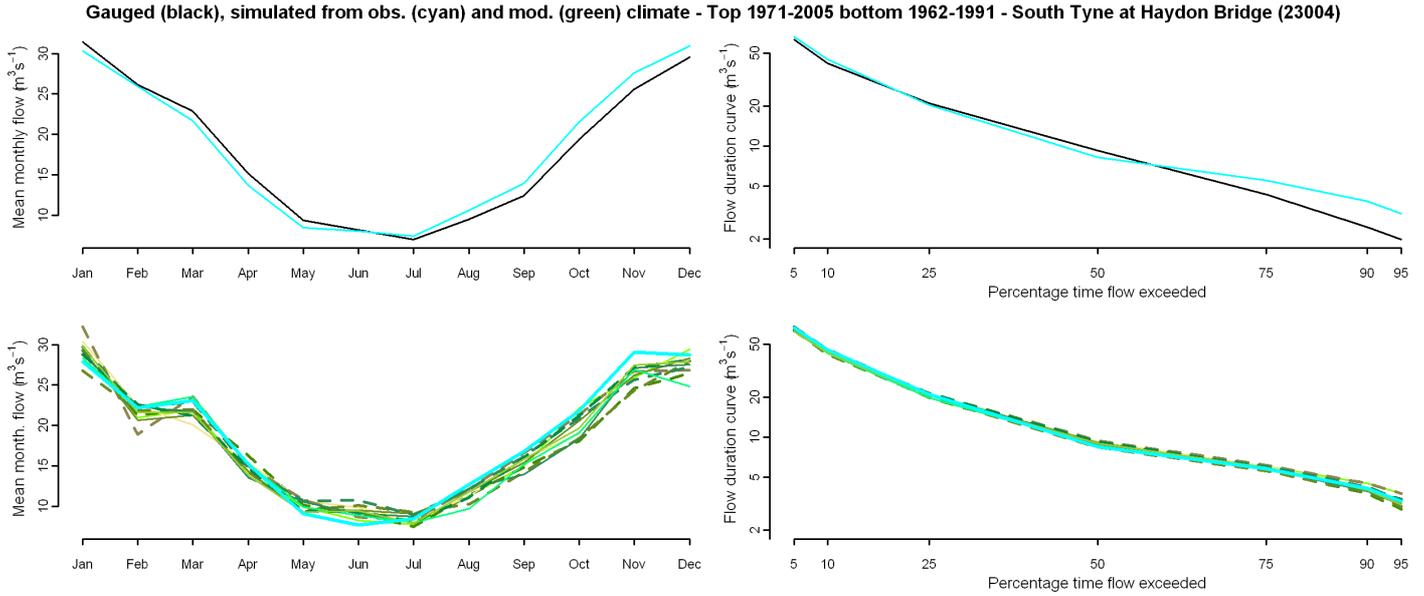
Gauged (black) and simulated (cyan) flows from observed climate - South Tyne at Haydon Bridge (23004)



Gauged (black) and simulated (cyan) flows from observed climate - South Tyne at Haydon Bridge (23004)



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

Climate change graphs for 2050s

