

General Information

River Name	Wear	Catchment Area (km2)	1008
Station Name	Chester le Street	SAAR (mm) 61-90	853
Station Number	24009	Mean Annual Rain (mm) 62-91	871
Grid Reference	NZ283512	Mean Annual PE (mm) 62-91	530
EA Region	EA-NE	Observed flow record	1977 to 2005



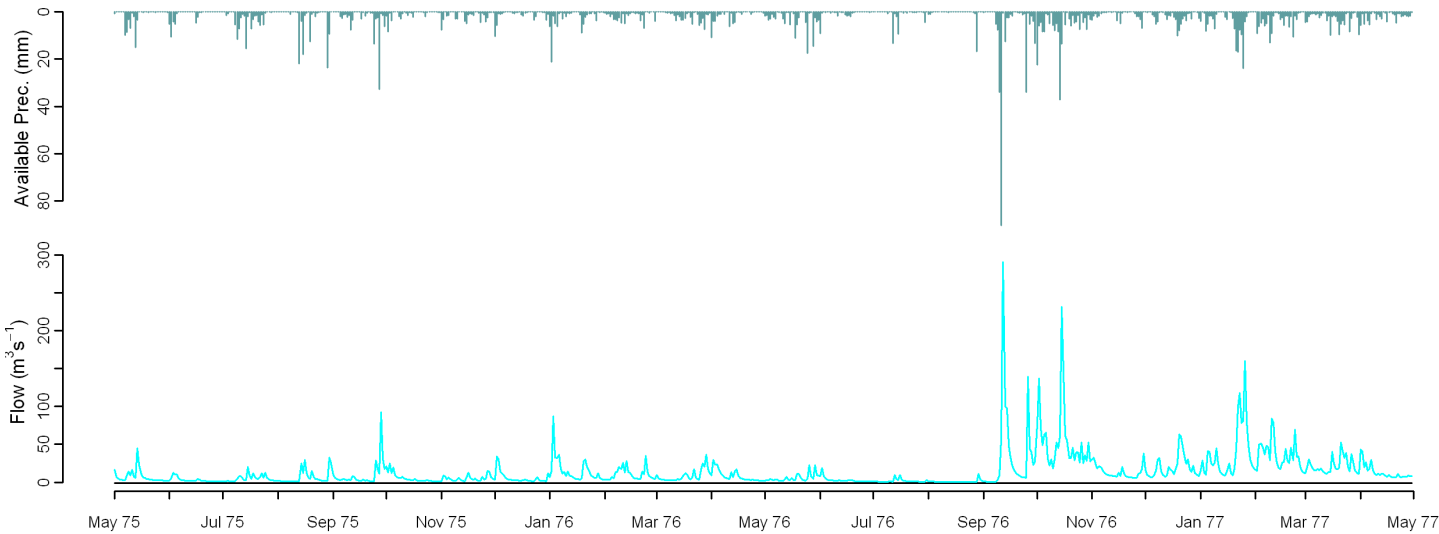
Observed Data

Comparison of gauged and simulated flow

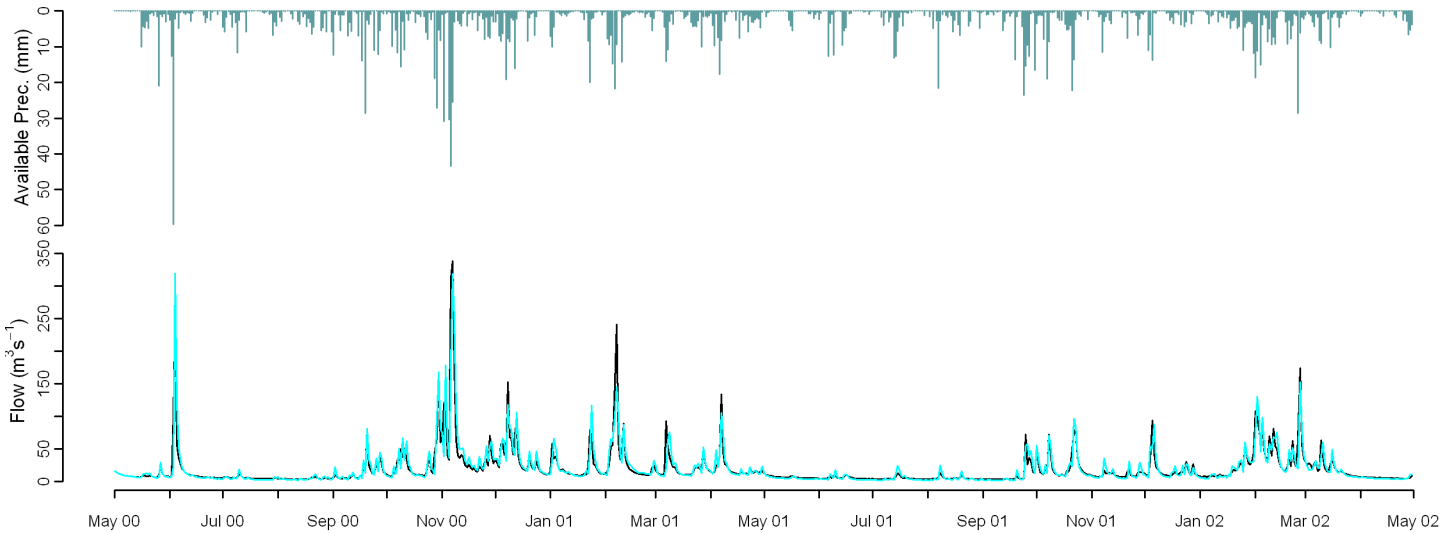
Model used: CLASSIC

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	2.3	0.7	-1.1	1.3	-1.9	-11.5	-12.3	-10.6	-3.3	10.8	14.3	13.5	8.1	0.72
Performance Band	1	1	1	1	1	2	2	2	1	2	2	2	1	1
FAO (1962-1991)	3.2	2.6	-5.3	1.3	-1.3	-8.1	-11.1	-10.8	-3.4	11.3	20.2	19.4	10.0	0.67
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-46.3	-25.7	-6.6	13.9	13.3	-9.8	-10.4	-7.9	-4.0					
Performance Band	2	2	1	1	1									
FAO (1962-1991)	-45.4	-25.1	-4.4	18.8	14.0	-13.8	-16.2	-13.0	-7.1					

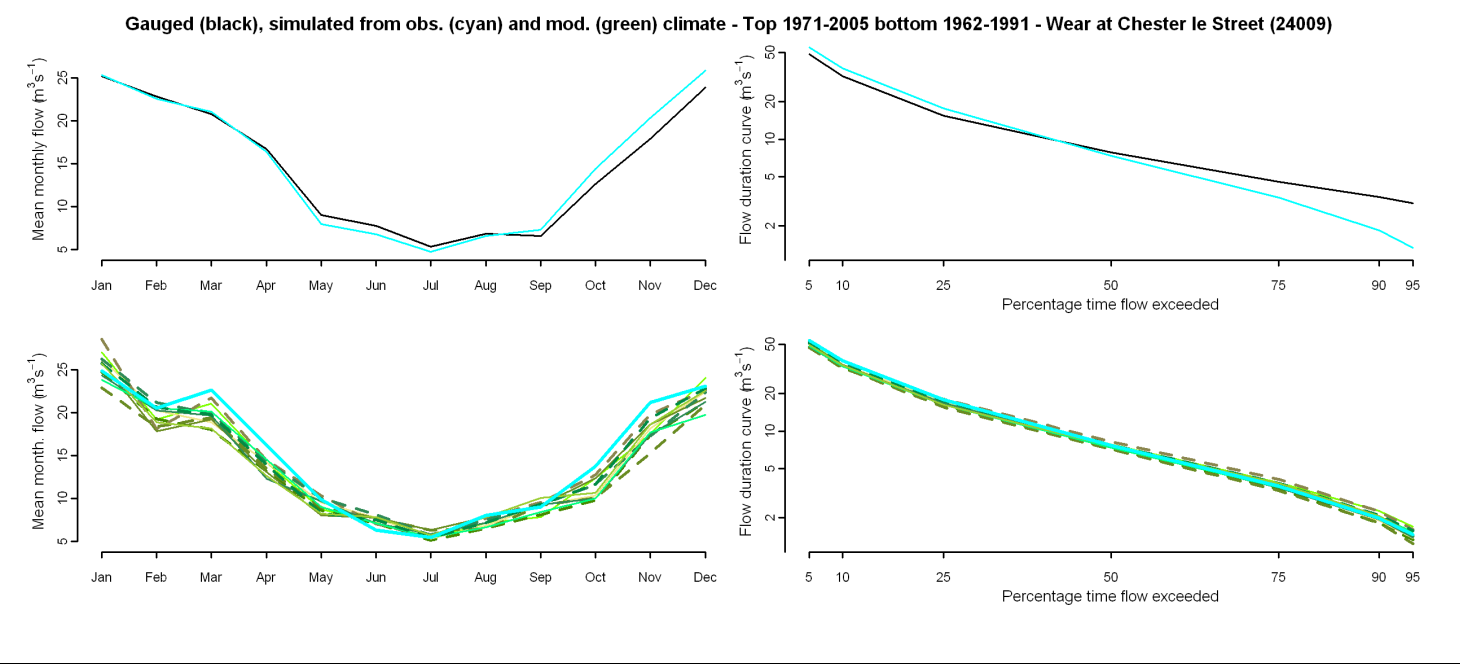
Gauged (black) and simulated (cyan) flows from observed climate - Wear at Chester le Street (24009)



Gauged (black) and simulated (cyan) flows from observed climate - Wear at Chester le Street (24009)



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	-11	-6	1	-7	-9	-8	0	-8	-4	-6
January	10	-1	6	13	7	-3	-2	7	-2	5	6
April	-12	-16	-10	-7	-18	-17	-23	-7	-10	-13	-20
July	-2	-2	1	6	14	15	3	5	-2	-4	6
October	-9	-28	-24	-4	-9	-24	-12	-12	-23	-15	-21
Q90	16	-9	-5	17	-5	-9	-7	4	1	2	5
Q75	7	-6	0	16	-3	-7	-6	6	-3	3	5
Q50	3	-6	1	9	-2	-6	-2	2	-5	0	-2
Q25	-3	-10	-4	3	-10	-11	-6	-4	-9	-2	-10
Q5	-5	-12	-6	-1	-8	-10	-11	0	-10	-5	-10
RP2	-11	-21	-15	-10	-1	-6	-7	-7	-11	-13	3
RP10	-28	-24	-14	-22	-5	-18	-8	-15	-25	-20	-3

Climate change graphs for 2050s

