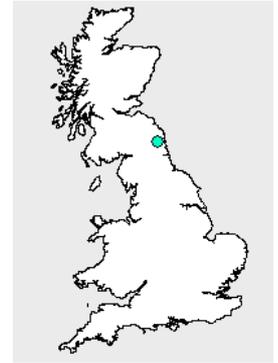


General Information

River Name	Coquet	Catchment Area (km ²)	346
Station Name	Rothbury	SAAR (mm) 61-90	907
Station Number	22009	Mean Annual Rain (mm) 62-91	917
Grid Reference	NU067016	Mean Annual PE (mm) 62-91	523
EA Region	EA-NE	Observed flow record	1972 to 2005



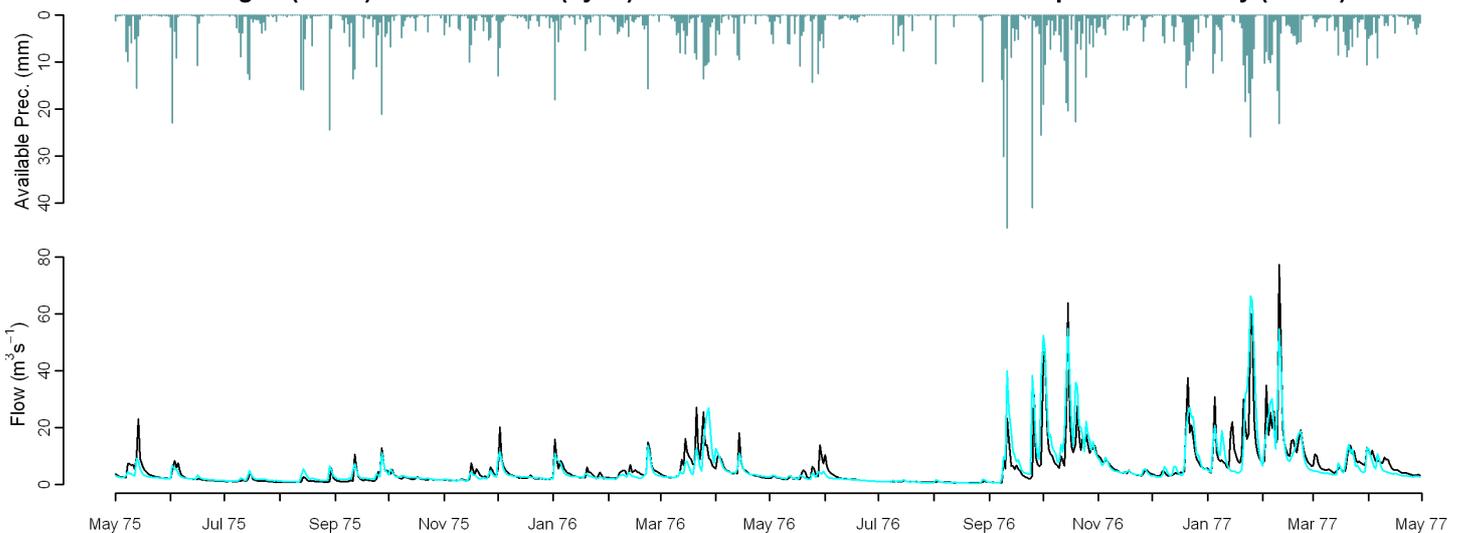
Observed Data

Comparison of gauged and simulated flow

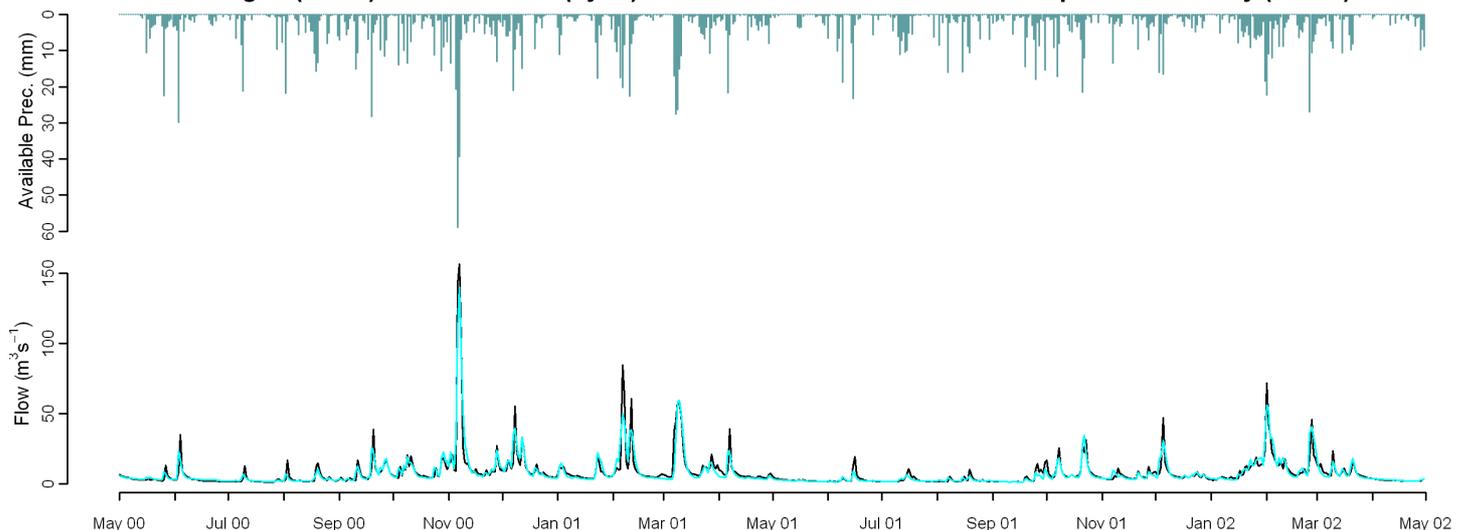
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-0.4	0.9	-2.4	-12.2	-9.8	-13.4	-10.9	0.3	11.0	13.8	6.9	3.9	7.8	0.72
Performance Band	1	1	1	2	2	2	2	1	1	2	1	1	1	1
MORECS (1962-1991)	-2.7	-3.1	-7.3	-12.6	-10.3	-14.2	-12.6	-3.2	5.8	17.0	4.0	1.9	5.5	0.66
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	13.3	11.8	-4.6	-10.9	16.8									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	11.6	12.0	-4.4	-14.4	11.8									

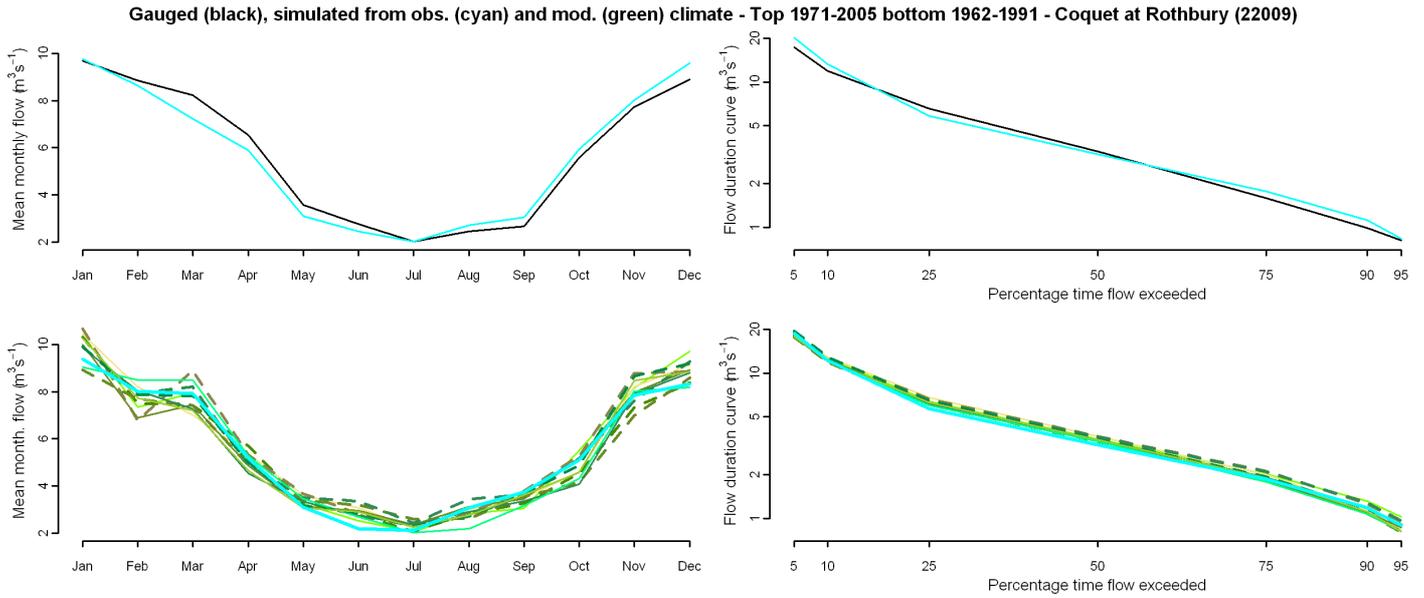
Gauged (black) and simulated (cyan) flows from observed climate - Coquet at Rothbury (22009)



Gauged (black) and simulated (cyan) flows from observed climate - Coquet at Rothbury (22009)



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

Climate change graphs for 2050s

