

General Information

River Name	Coquet	Catchment Area (km ²)	570
Station Name	Morwick	SAAR (mm) 61-90	852
Station Number	22001	Mean Annual Rain (mm) 62-91	858
Grid Reference	NU234044	Mean Annual PE (mm) 62-91	527
EA Region	EA-NE	Observed flow record	1963 to 2005



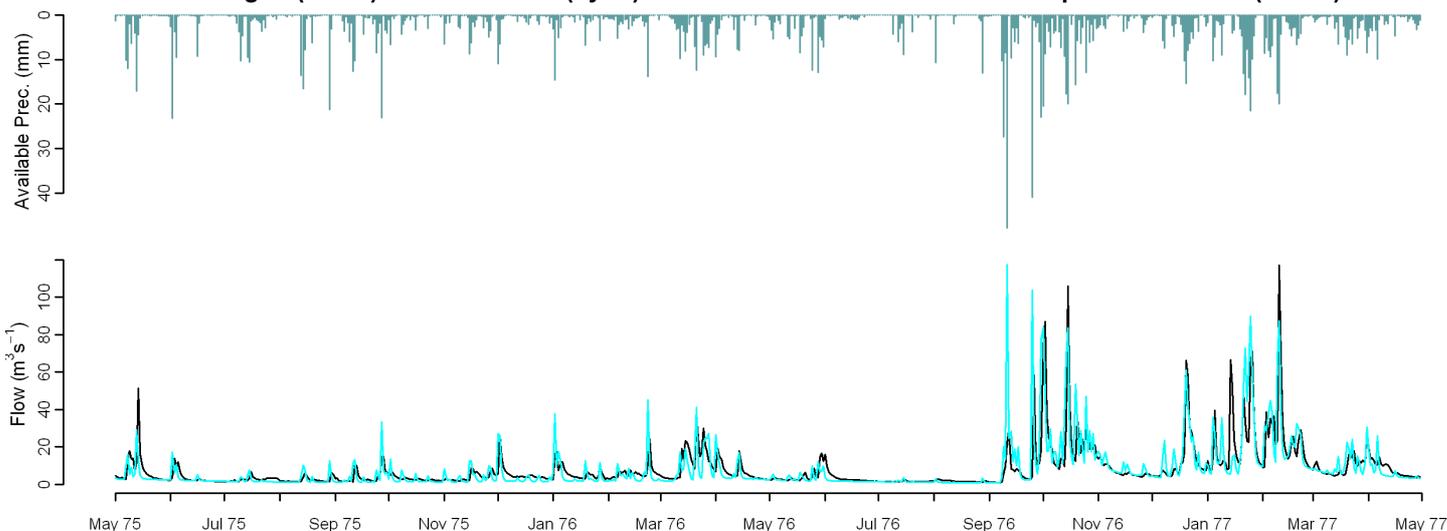
Observed Data

Comparison of gauged and simulated flow

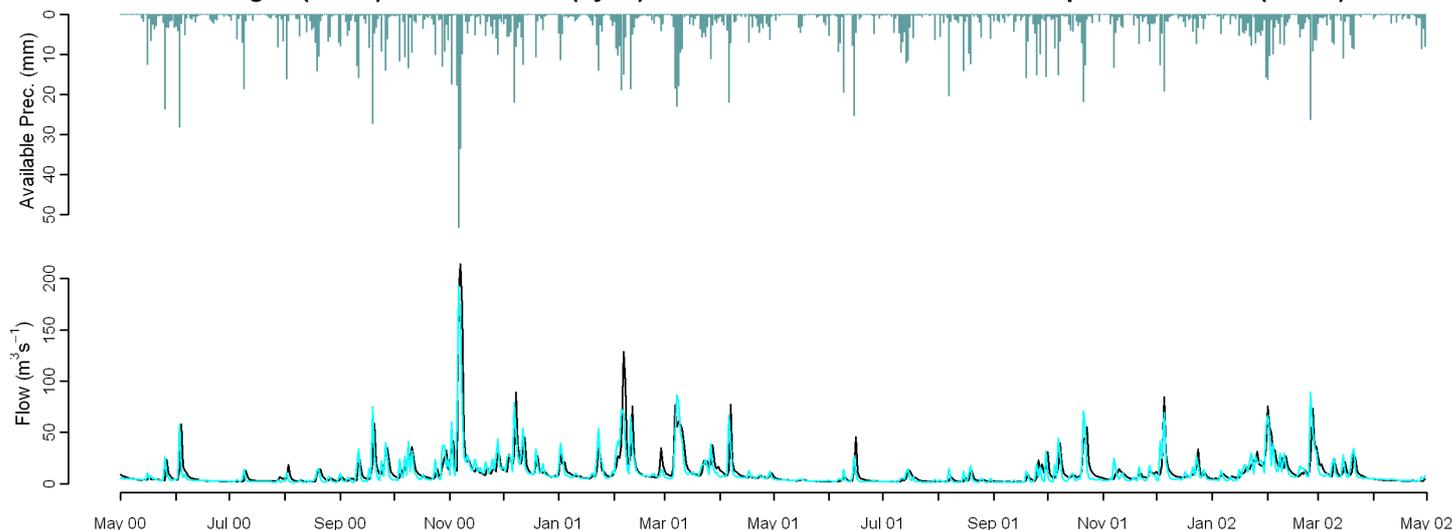
Model used: PDM

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-4.5	-3.7	-6.8	-9.8	-13.9	-12.7	-6.4	-2.3	2.0	15.7	-1.0	-0.3	-2.7	0.53
Performance Band	1	1	1	1	2	2	1	1	1	2	1	1	1	2
FAO (1962-1991)	-4.3	-5.2	-11.1	-10.6	-13.5	-5.4	-5.2	-4.7	-2.1	14.8	-1.2	-0.1	-1.7	0.43
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-13.5	-13.2	-16.4	-13.4	6.9	-4.4	-5.4	-8.2	-11.8					
Performance Band	1	1	2	1	1									
FAO (1962-1991)	-12.0	-13.1	-18.4	-13.3	6.8	-2.1	-4.9	-5.8	-6.2					

Gauged (black) and simulated (cyan) flows from observed climate - Coquet at Morwick (22001)

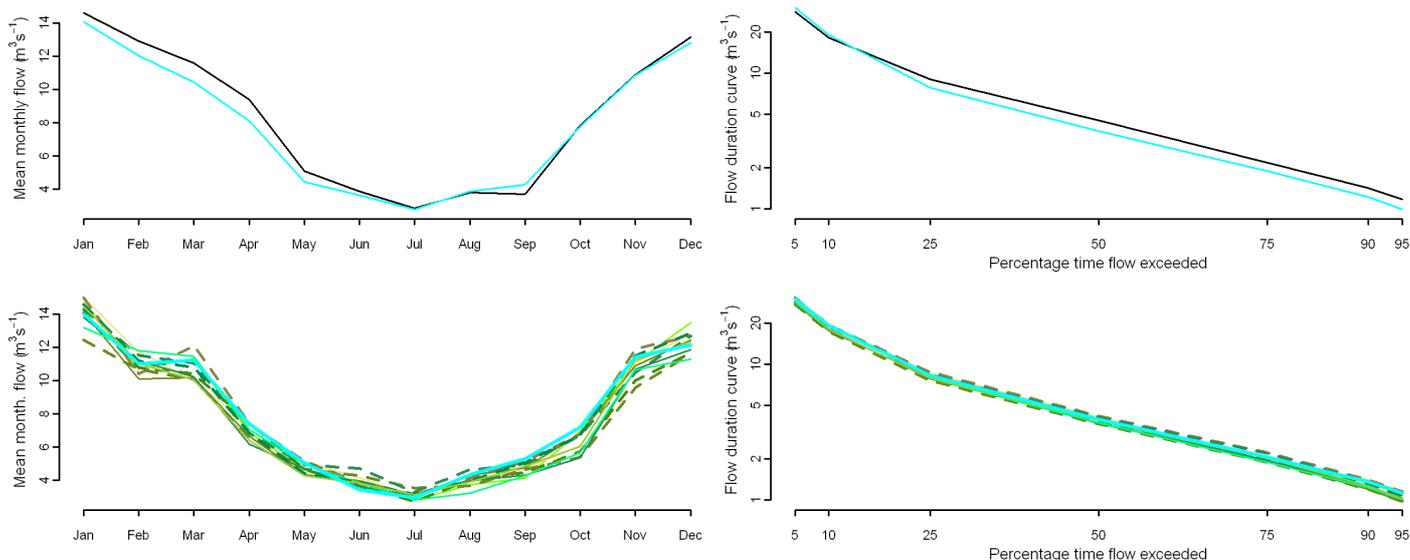


Gauged (black) and simulated (cyan) flows from observed climate - Coquet at Morwick (22001)



Comparison of gauged and simulated flow (observed and modelled climate)

Gauged (black), simulated from obs. (cyan) and mod. (green) climate - Top 1971-2005 bottom 1962-1991 - Coquet at Morwick (22001)



Percentage difference between flow simulated from observed climate and Future Flows Climate

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-1	-7	0	3	-4	-8	-7	2	-6	0	-6
January	6	-2	10	9	2	-6	-1	5	-4	5	3
April	-7	-9	1	2	-12	-12	-16	-4	-4	-7	-14
July	-4	-4	2	3	3	14	0	8	-5	5	5
October	-3	-21	-16	-2	-7	-23	-20	-9	-23	-7	-6
Q90	5	-9	-4	5	-12	-12	-9	0	-9	-3	-6
Q75	-1	-4	-1	9	-7	-8	-6	7	-9	-1	-2
Q50	-1	-6	3	7	-4	-6	-7	4	-7	-1	-3
Q25	2	-5	5	8	-5	-7	-3	3	-4	2	-5
Q5	-1	-6	-1	2	-2	-7	-7	4	-5	1	-6
RP2	-11	-9	-17	-3	-8	-7	-9	-8	-6	-2	3
RP10	-20	-17	-21	-13	-10	-13	-16	-17	-20	-6	7

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Coquet at Morwick (22001)

