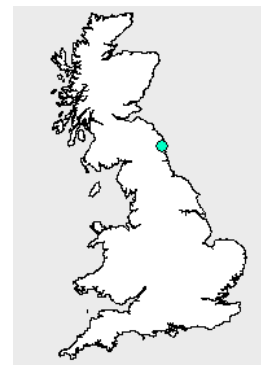


## General Information

River Name	Coquet	Catchment Area (km2)	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



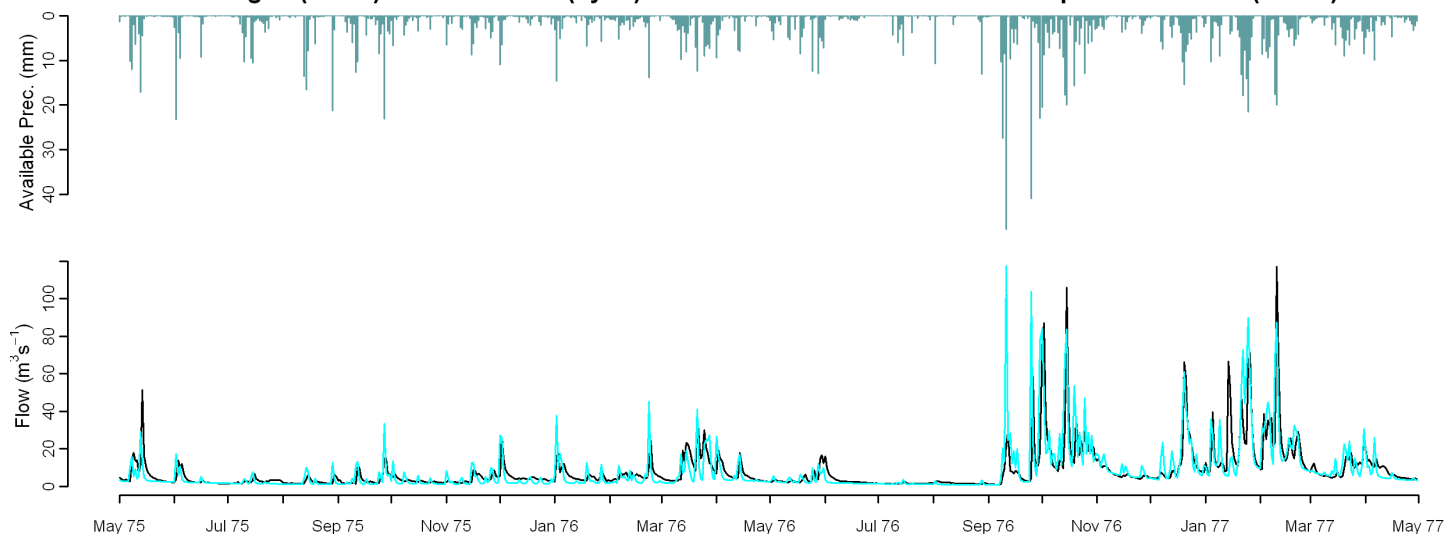
## Observed Data

## Comparison of gauged and simulated flow

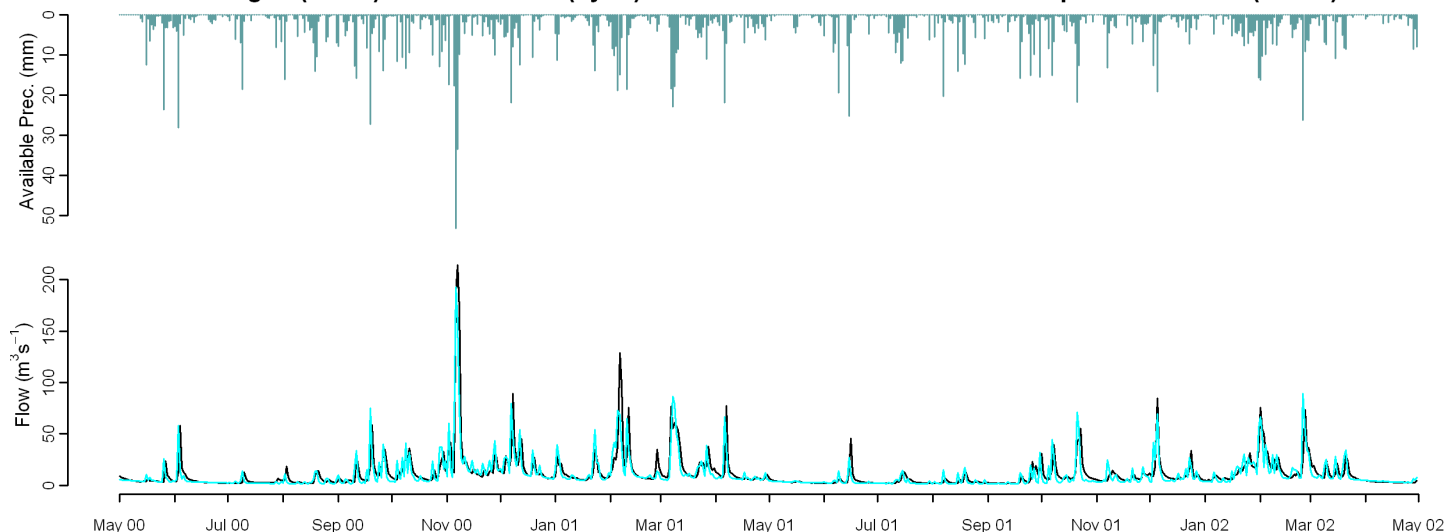
## Model used: PDM

	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			

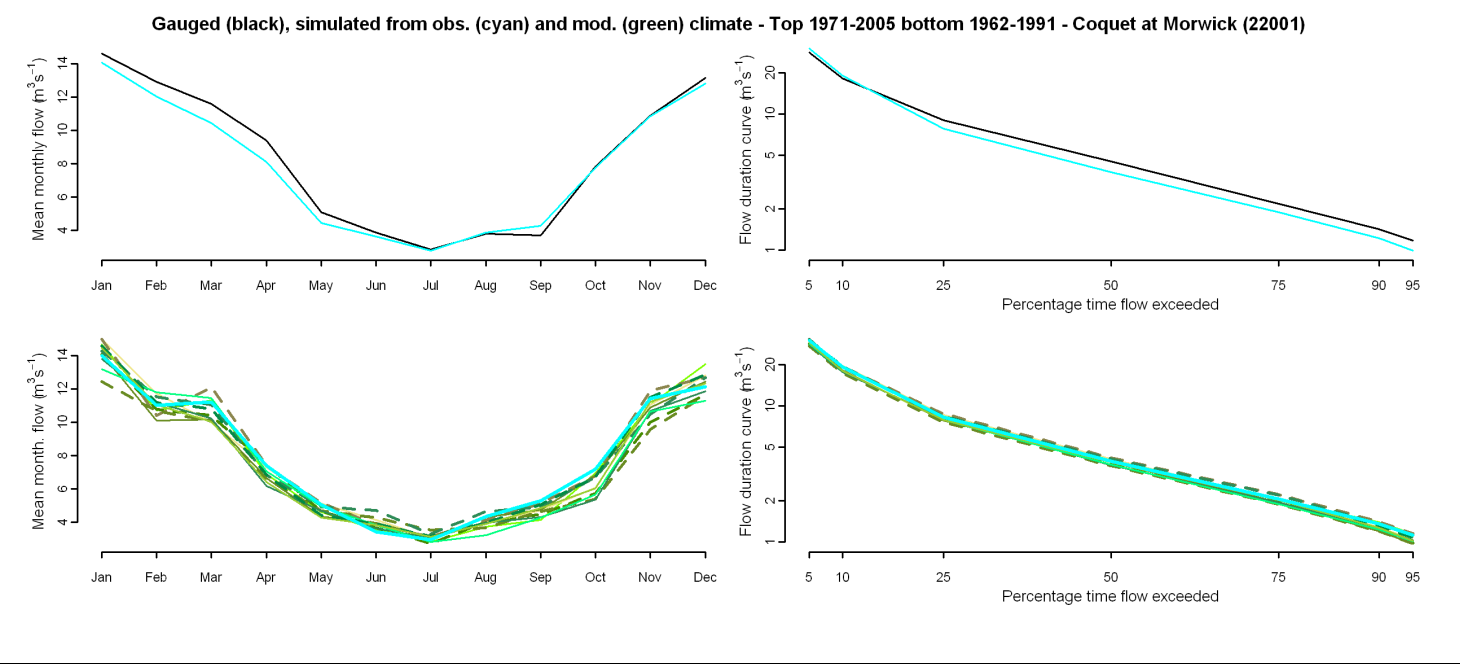
Gauged (black) and simulated (cyan) flows from observed climate - Coquet at Morwick (22001)



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



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



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

