

## General Information

River Name	Trent	Catchment Area (km <sup>2</sup> )	8231
Station Name	North Muskham	SAAR (mm) 61-90	747
Station Number	28022	Mean Annual Rain (mm) 62-91	759
Grid Reference	SK801601	Mean Annual PE (mm) 62-91	593
EA Region	EA-M	Observed flow record	1968 to 2005



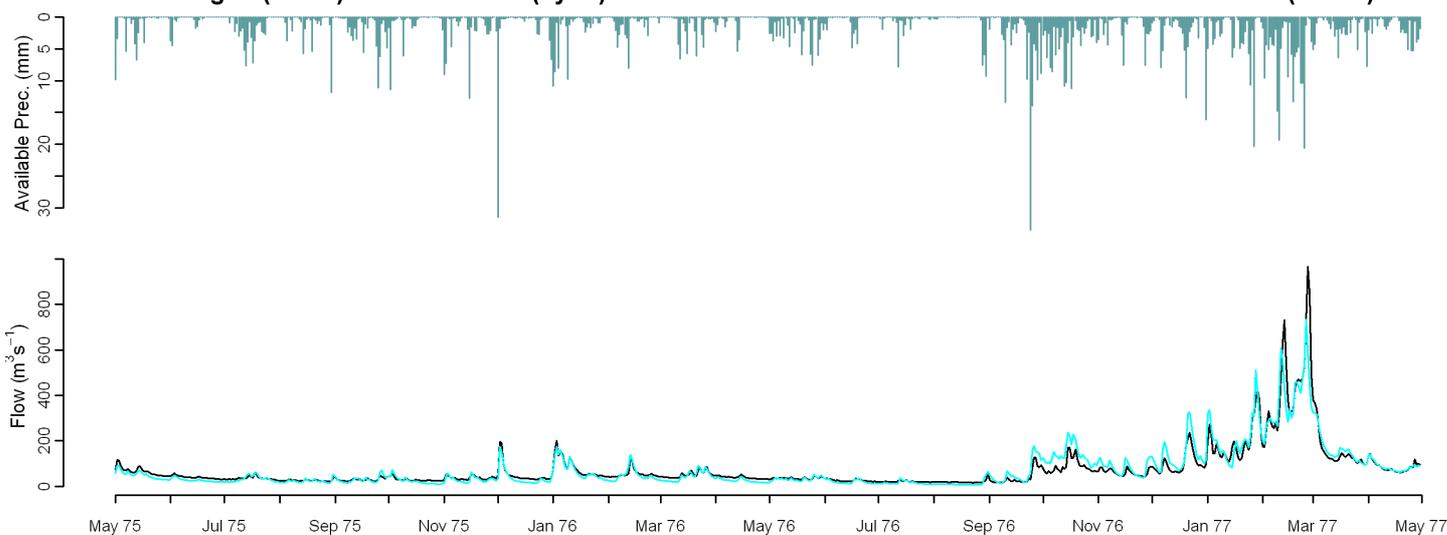
## Observed Data

## Comparison of gauged and simulated flow

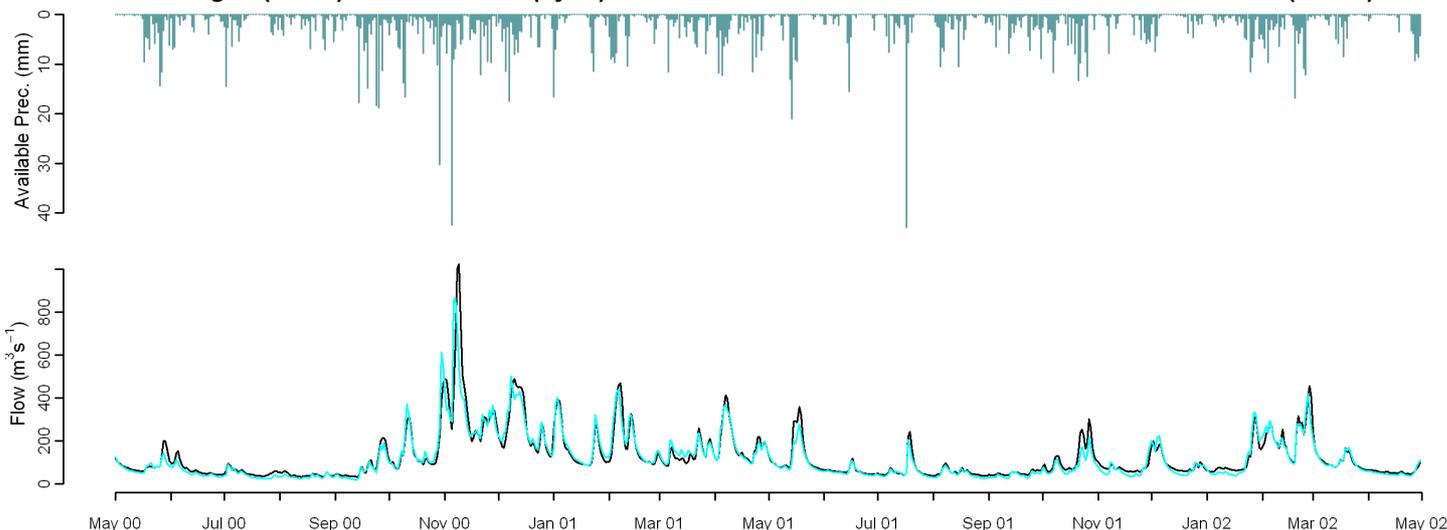
## Model used: CLASSIC

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-2.7	2.3	0.9	0.4	-7.0	-14.7	-13.5	-13.0	-11.5	-13.2	-1.7	3.0	4.1	0.91
Performance Band	1	1	1	1	1	2	2	2	2	2	1	1	1	1
FAO (1962-1991)	0.0	7.1	0.6	2.1	-5.3	-11.6	-9.5	-11.5	-8.7	-11.0	0.0	9.3	10.0	0.89
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-31.1	-16.9	-5.9	2.2	3.4	1.1	0.8	-1.8	-6.0					
Performance Band	2	2	1	1	1									
FAO (1962-1991)	-29.6	-14.0	-3.5	5.4	8.6	0.3	2.0	0.5	-2.7					

Gauged (black) and simulated (cyan) flows from observed climate - Trent at North Muskham (28022)

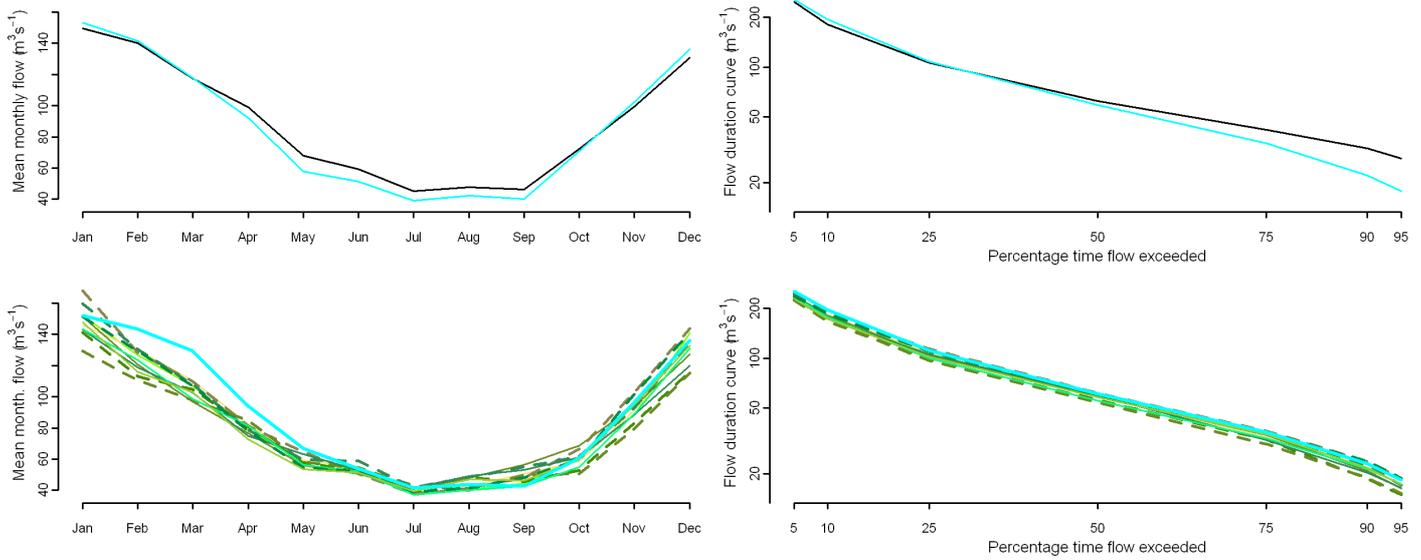


Gauged (black) and simulated (cyan) flows from observed climate - Trent at North Muskham (28022)



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 - Trent at North Muskham (28022)



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	-10	-4	1	-7	-12	-7	1	-8	-5	-8
January	5	-8	-3	7	2	-15	-6	4	-5	0	-3
April	-16	-18	-9	-10	-18	-10	-20	-15	-13	-18	-21
July	-5	-1	6	-6	-3	6	2	4	-8	-7	-4
October	4	-10	-2	15	10	-12	6	8	-8	0	0
Q90	1	-19	-7	5	-12	-18	-12	-2	-6	1	-4
Q75	-1	-9	-6	3	-8	-16	-11	1	-8	-2	-3
Q50	-5	-8	-3	2	-6	-11	-4	3	-9	-3	-5
Q25	-4	-12	-2	4	-8	-13	-6	1	-10	-2	-9
Q5	-6	-11	-5	-5	-7	-12	-12	-1	-8	-8	-11
RP2	5	-4	-4	8	7	2	9	9	-2	-1	2
RP10	-4	6	-2	4	6	3	12	0	9	-1	13

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Trent at North Muskham (28022)

