

## General Information

River Name	Thrushel	Catchment Area (km2)	113
Station Name	Tinhay	SAAR (mm) 61-90	1142
Station Number	47008	Mean Annual Rain (mm) 62-91	1153
Grid Reference	SX398856	Mean Annual PE (mm) 62-91	559
EA Region	EA-SW	Observed flow record	1969 to 2005



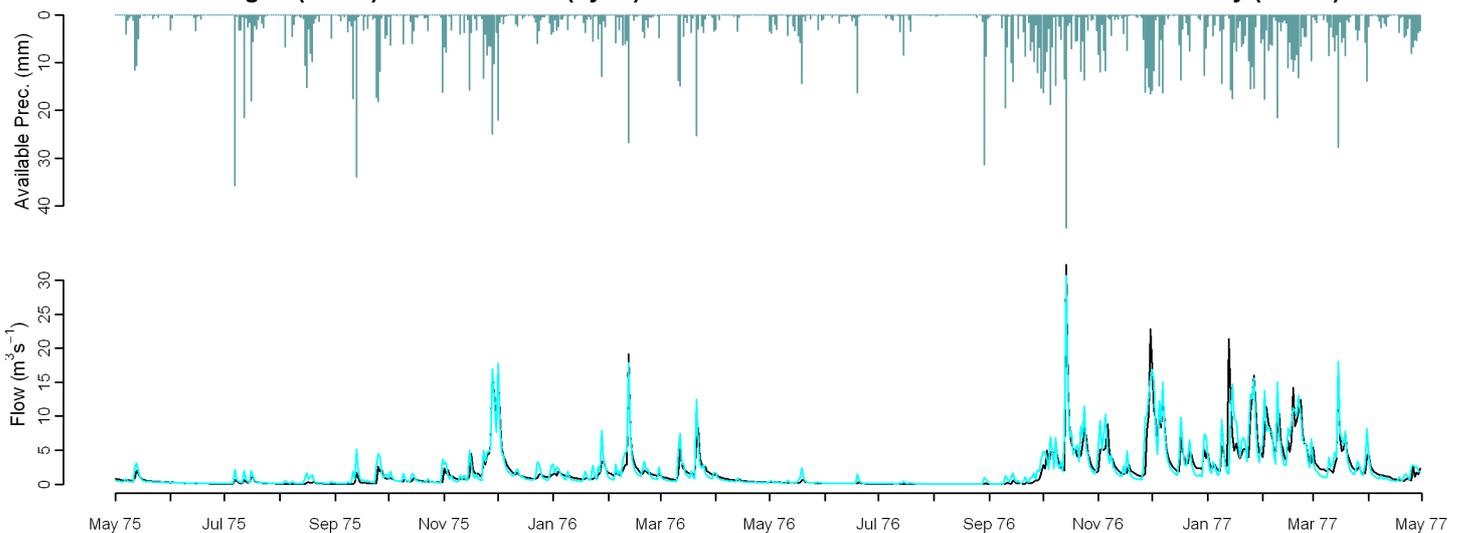
## Observed Data

## Comparison of gauged and simulated flow

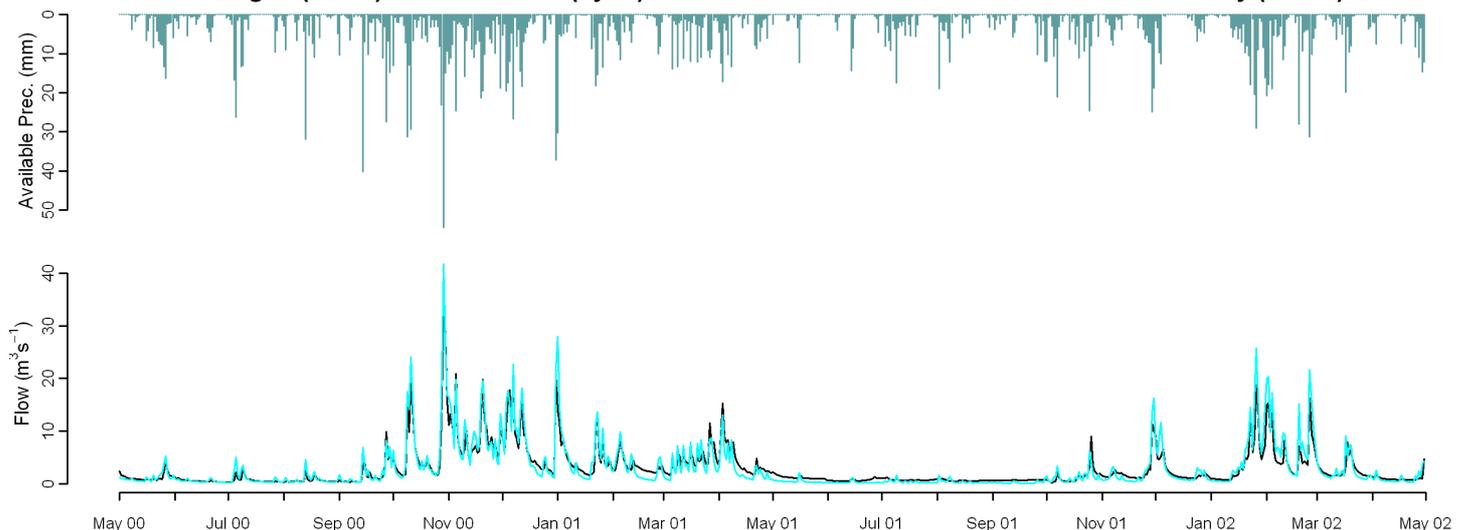
## Model used: PDM

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	1.4	8.2	7.9	-2.5	-10.1	-15.4	-10.1	-12.3	-19.0	-5.8	-0.1	3.7	6.8	0.78
Performance Band	1	1	1	1	2	2	2	2	2	1	1	1	1	1
FAO (1962-1991)	4.2	6.1	5.5	-0.6	-8.9	-4.5	6.2	21.9	-0.6	12.7	7.4	4.7	6.8	0.79
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-18.0	-30.8	-22.4	-2.9	17.1	-1.6	-6.9	-9.7	-12.0					
Performance Band	1	2	2	1	2									
FAO (1962-1991)	33.8	5.3	-9.9	-0.6	12.1	-8.7	-12.1	-15.1	-18.3					

Gauged (black) and simulated (cyan) flows from observed climate - Thrushel at Tinhay (47008)

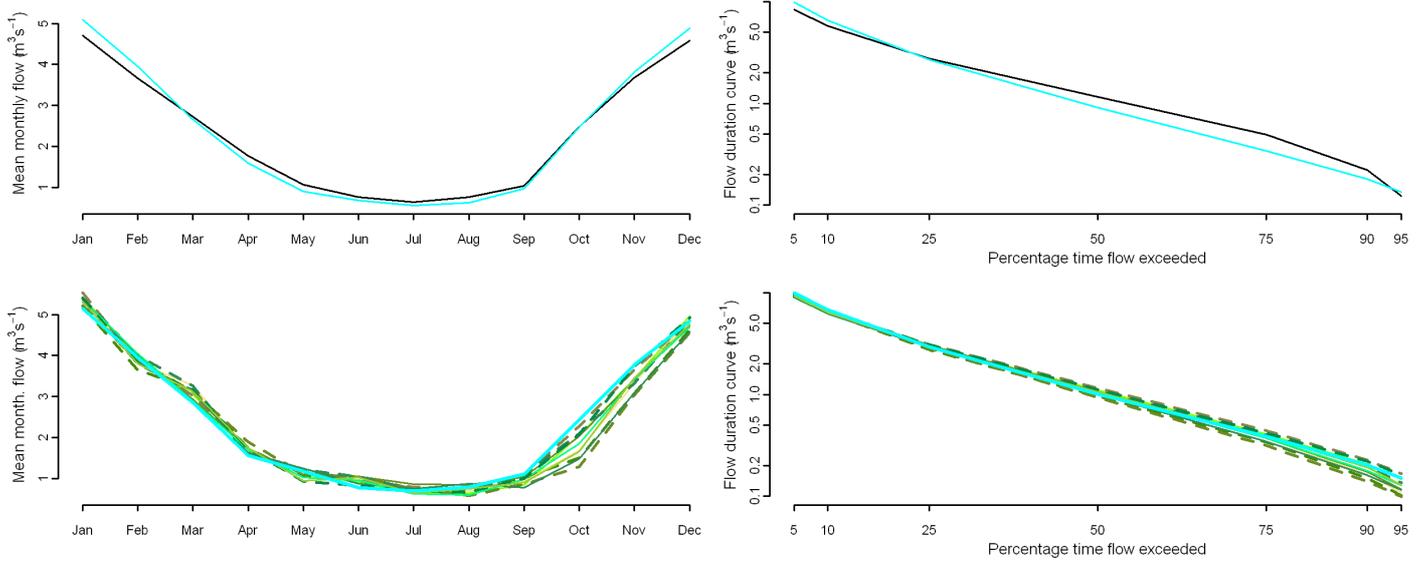


Gauged (black) and simulated (cyan) flows from observed climate - Thrushel at Tinhay (47008)



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 - Thrushel at Tinhay (47008)



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	-6	-2	3	-2	-7	-5	1	-4	-3	-4
January	5	3	9	9	6	3	4	10	4	1	5
April	10	2	7	7	12	18	1	-1	9	4	13
July	-10	4	7	14	15	4	8	1	-6	-7	-9
October	-16	-38	-32	-3	-25	-47	-38	-20	-26	-16	-4
Q90	2	-27	-20	11	-18	-33	-19	-4	-12	4	-5
Q75	5	-13	-4	14	-8	-21	-11	2	-3	4	-1
Q50	9	-5	3	16	1	-9	0	7	0	7	3
Q25	2	-7	1	7	2	-5	-1	3	-1	3	-1
Q5	-7	-5	-4	-2	-1	-8	-9	-3	-7	-10	-8
RP2	-3	-6	-4	2	-3	-2	-1	-4	1	-1	0
RP10	-5	-2	0	0	-11	-4	0	-6	6	2	-4

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Thrushel at Tinhay (47008)

