

## General Information

River Name	Thet	Catchment Area (km <sup>2</sup> )	316
Station Name	Melford Bridge	SAAR (mm) 61-90	620
Station Number	33019	Mean Annual Rain (mm) 62-91	621
Grid Reference	TL880830	Mean Annual PE (mm) 62-91	604
EA Region	EA-A	Observed flow record	1962 to 2005



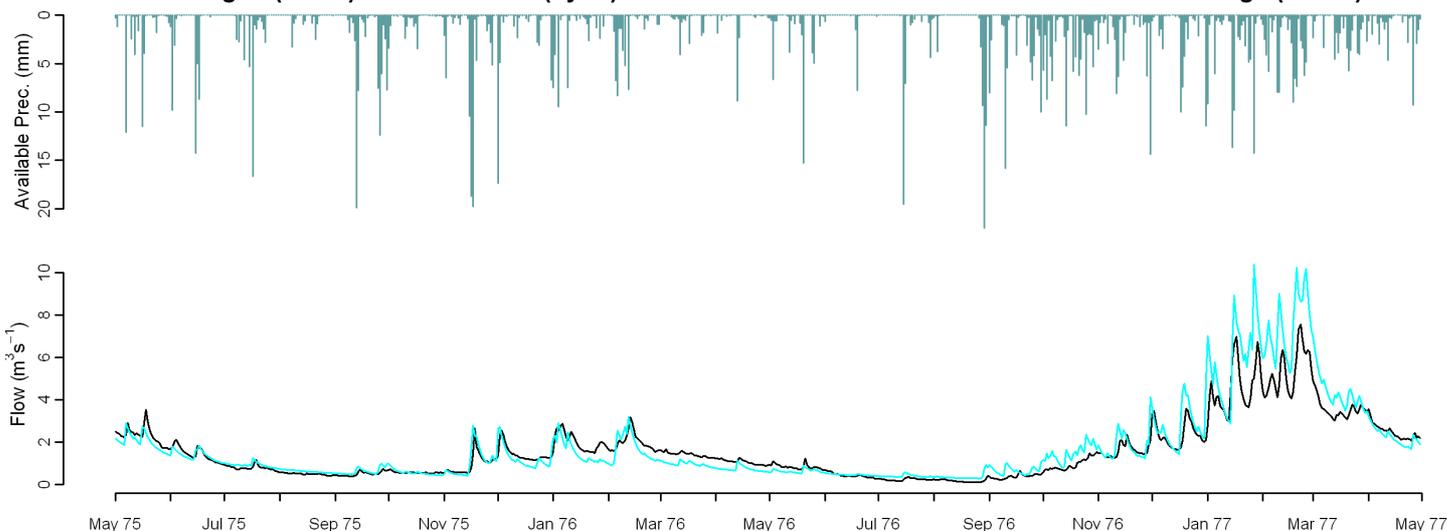
## Observed Data

## Comparison of gauged and simulated flow

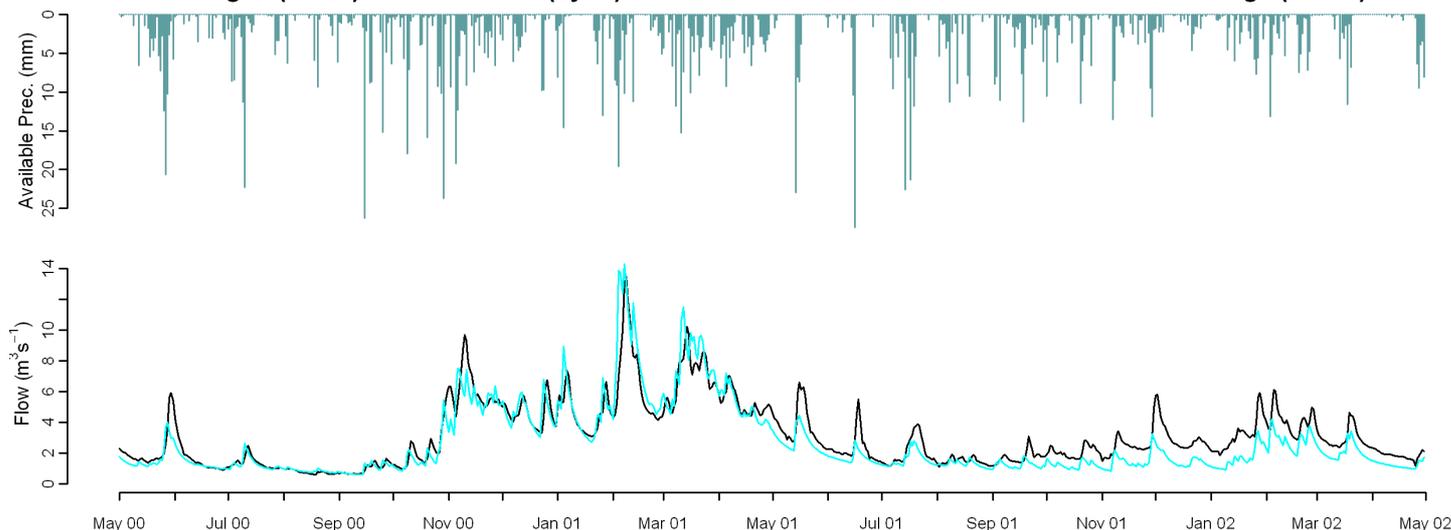
## Model used: PDM

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-5.0	-0.9	3.1	-5.0	-13.2	-13.9	-6.4	4.7	5.1	-1.0	-7.3	-7.3	-8.2	0.80
Performance Band	1	1	1	1	2	2	1	1	1	1	1	1	1	1
FAO (1962-1991)	2.6	9.3	10.6	-0.5	-8.1	-7.8	0.8	7.9	8.9	4.9	0.7	5.5	3.6	0.76
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-4.0	-4.0	-9.6	-12.6	4.4	-0.6	6.8	6.8	5.3					
Performance Band	1	1	1	2	1									
FAO (1962-1991)	4.2	1.9	-3.6	-2.1	12.8	10.6	13.7	9.9	4.4					

Gauged (black) and simulated (cyan) flows from observed climate - Thet at Melford Bridge (33019)

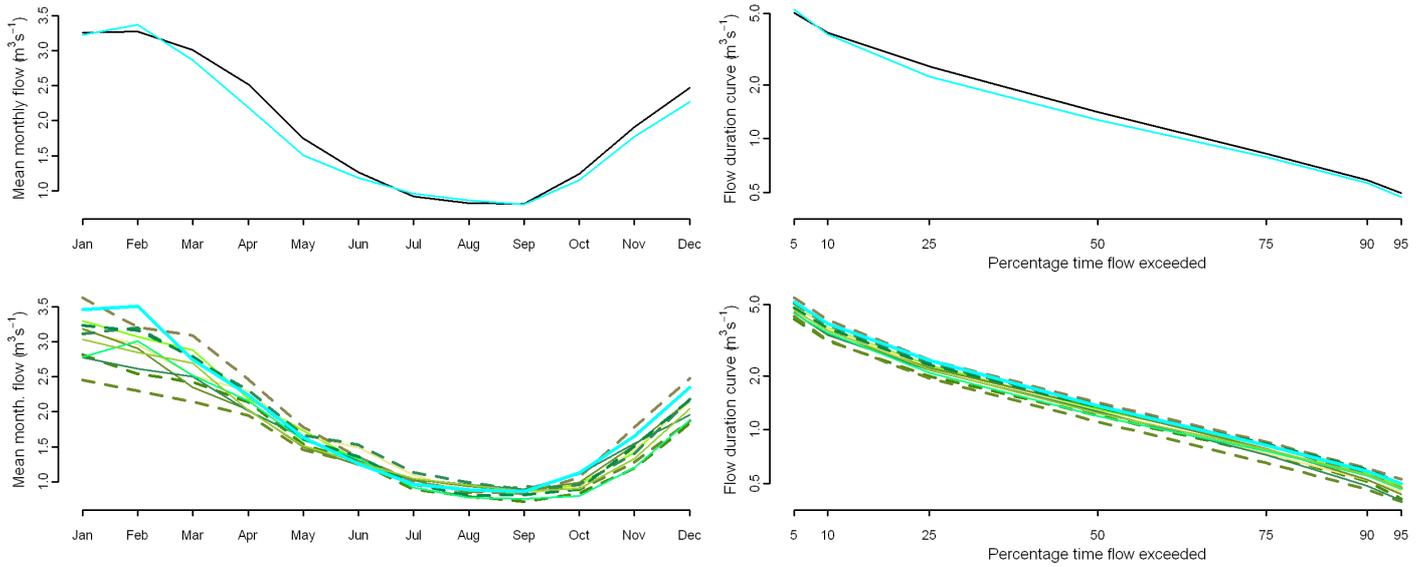


Gauged (black) and simulated (cyan) flows from observed climate - Thet at Melford Bridge (33019)



## 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 - Thet at Melford Bridge (33019)



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

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-5	-18	-5	5	-10	-19	-11	-2	-12	-5	-11
January	-6	-22	-6	8	-6	-27	-21	-6	-16	-6	-11
April	-4	-10	3	10	-11	-15	-11	3	-4	0	-11
July	0	-7	12	4	4	4	8	14	-5	-1	5
October	-13	-25	-17	-3	-19	-21	-1	-17	-26	-21	-11
Q90	-2	-13	-12	4	-13	-22	-17	-6	-6	1	-6
Q75	-1	-11	-11	5	-7	-21	-12	-1	-8	2	-7
Q50	-4	-11	-6	6	-6	-19	-7	2	-11	-1	-10
Q25	-7	-19	-7	2	-11	-21	-12	-3	-13	-6	-12
Q5	-6	-23	-3	7	-13	-17	-14	-2	-13	-8	-13
RP2	-20	-25	-12	-7	-24	-25	-17	-7	-16	-11	-21
RP10	-2	-10	7	3	-12	-11	1	-2	-14	-7	-16

## Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Thet at Melford Bridge (33019)

