

General Information

River Name	Great Stour	Catchment Area (km ²)	345
Station Name	Horton	SAAR (mm) 61-90	747
Station Number	40011	Mean Annual Rain (mm) 62-91	754
Grid Reference	TR115553	Mean Annual PE (mm) 62-91	552
EA Region	EA-SE	Observed flow record	1964 to 2005



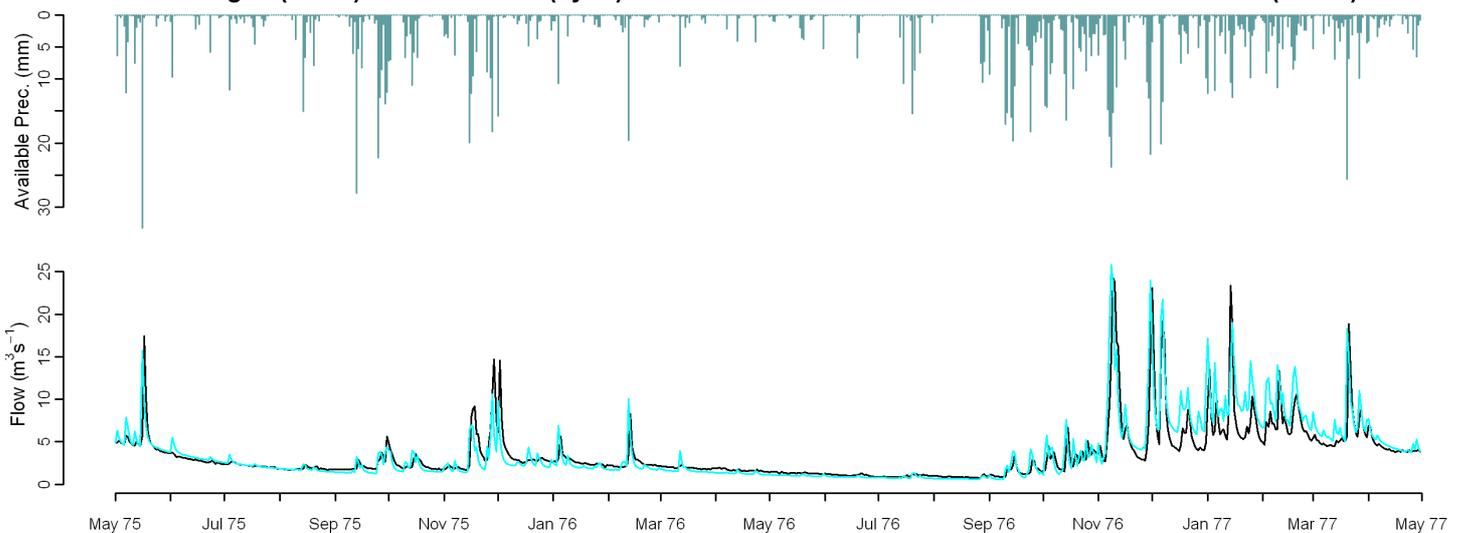
Observed Data

Comparison of gauged and simulated flow

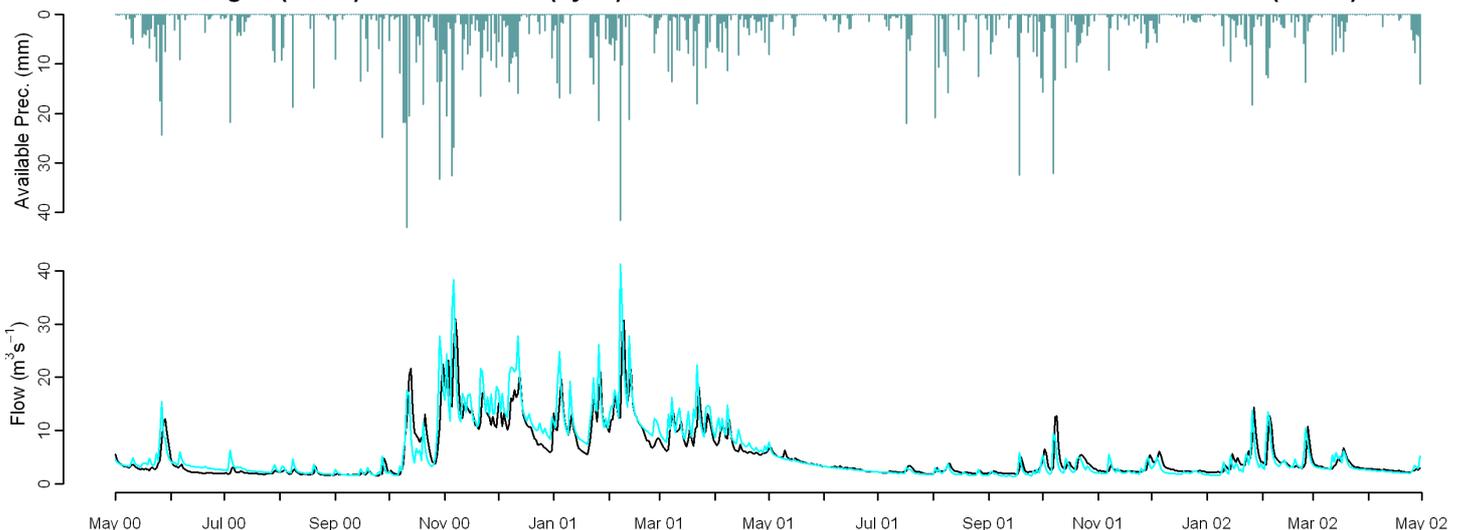
Model used: PDM

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	4.3	5.6	13.8	8.6	6.9	6.8	16.1	10.1	6.9	-1.9	-7.9	-6.3	-2.4	0.64
Performance Band	1	1	2	1	1	1	2	2	1	1	1	1	1	2
FAO (1962-1991)	1.6	3.5	10.2	5.8	4.5	5.8	11.4	4.6	-1.8	-7.6	-11.5	-4.1	-4.1	0.62
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-4.4	-2.8	0.7	7.1	5.8	-0.1	6.5	14.3	23.1					
Performance Band	1	1	1	1	1									
FAO (1962-1991)	-14.5	-5.7	-1.0	4.6	5.4	-6.7	-3.8	0.2	4.3					

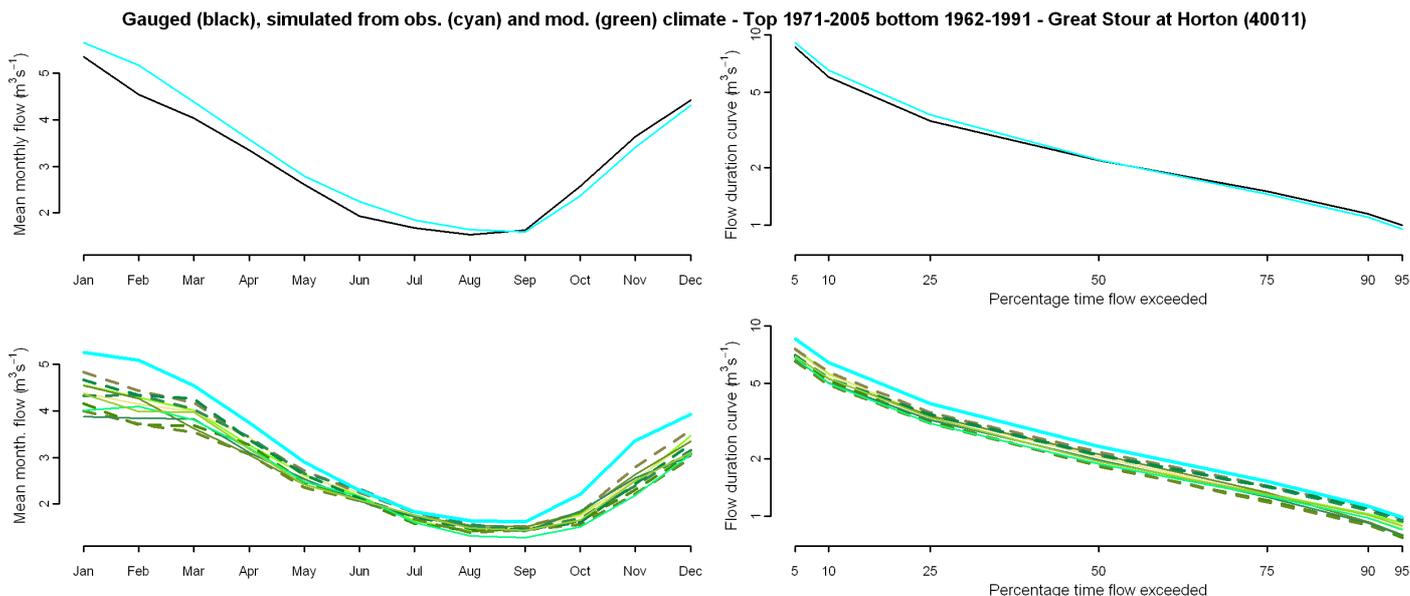
Gauged (black) and simulated (cyan) flows from observed climate - Great Stour at Horton (40011)



Gauged (black) and simulated (cyan) flows from observed climate - Great Stour at Horton (40011)



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	-14	-20	-13	-9	-17	-23	-19	-13	-19	-13	-17
January	-14	-20	-14	-7	-11	-23	-26	-14	-21	-8	-16
April	-14	-16	-8	-10	-19	-20	-19	-8	-15	-11	-15
July	-11	-15	0	-3	-10	-11	-9	-1	-12	-7	-6
October	-19	-27	-22	-16	-26	-31	-16	-24	-28	-28	-17
Q90	-8	-21	-13	-2	-18	-22	-18	-6	-13	-3	-11
Q75	-14	-21	-15	-5	-15	-24	-18	-7	-16	-7	-15
Q50	-16	-22	-12	-6	-12	-21	-17	-10	-19	-10	-17
Q25	-16	-20	-12	-9	-16	-23	-19	-12	-21	-13	-16
Q5	-11	-19	-13	-10	-19	-24	-22	-17	-20	-18	-19
RP2	-14	-17	-17	-15	-22	-21	-24	-21	-21	-13	-24
RP10	-7	2	-11	-4	-14	-2	-10	-9	-10	-4	-7

Climate change graphs for 2050s

