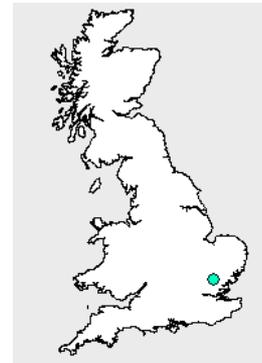


General Information

River Name	Chelmer	Catchment Area (km ²)	73
Station Name	Churchend	SAAR (mm) 61-90	591
Station Number	37011	Mean Annual Rain (mm) 62-91	587
Grid Reference	TL629233	Mean Annual PE (mm) 62-91	565
EA Region	EA-A	Observed flow record	1963 to 2005



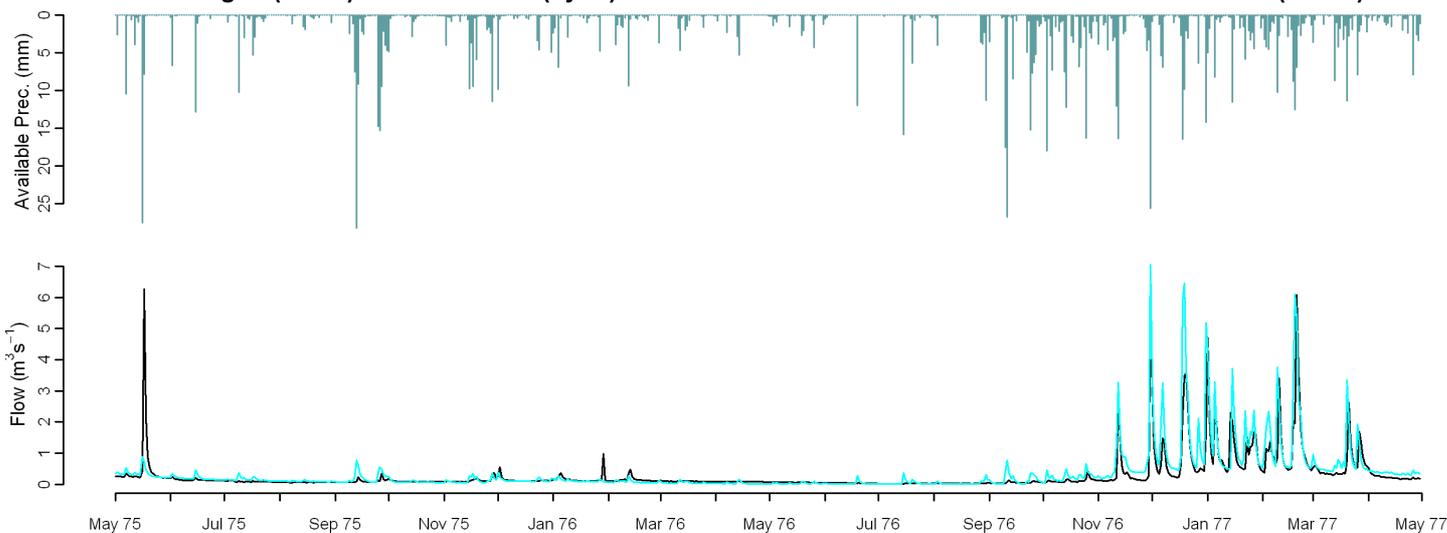
Observed Data

Comparison of gauged and simulated flow

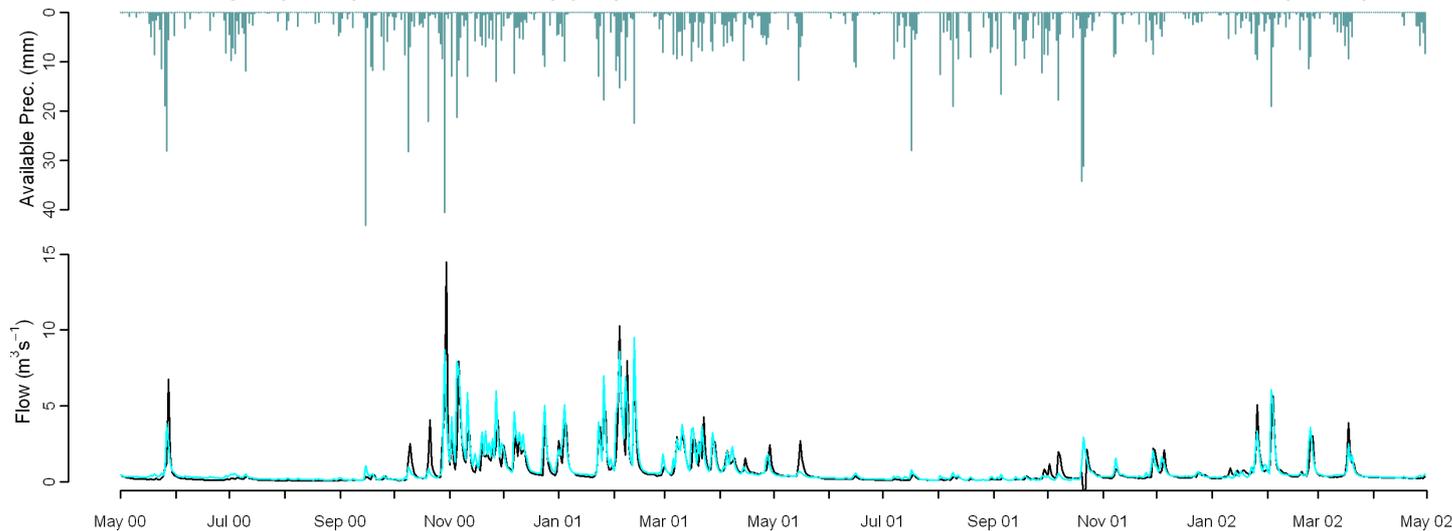
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-11.4	-18.5	-3.0	-7.5	-12.1	6.5	37.7	52.1	40.5	15.8	-41.4	-19.9	-23.9	0.57
Performance Band	2	2	2	1	2	1	3	3	2	1	3	3	3	2
MORECS (1962-1991)	-13.6	-24.8	-3.2	-7.9	-6.3	7.3	33.0	53.4	22.3	-4.5	-40.8	-31.2	-37.2	0.53
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-34.4	-3.5	17.7	5.2	-23.4									
Performance Band	1	1	3	3	2									
MORECS (1962-1991)	-32.8	-3.4	13.2	4.7	-29.6									

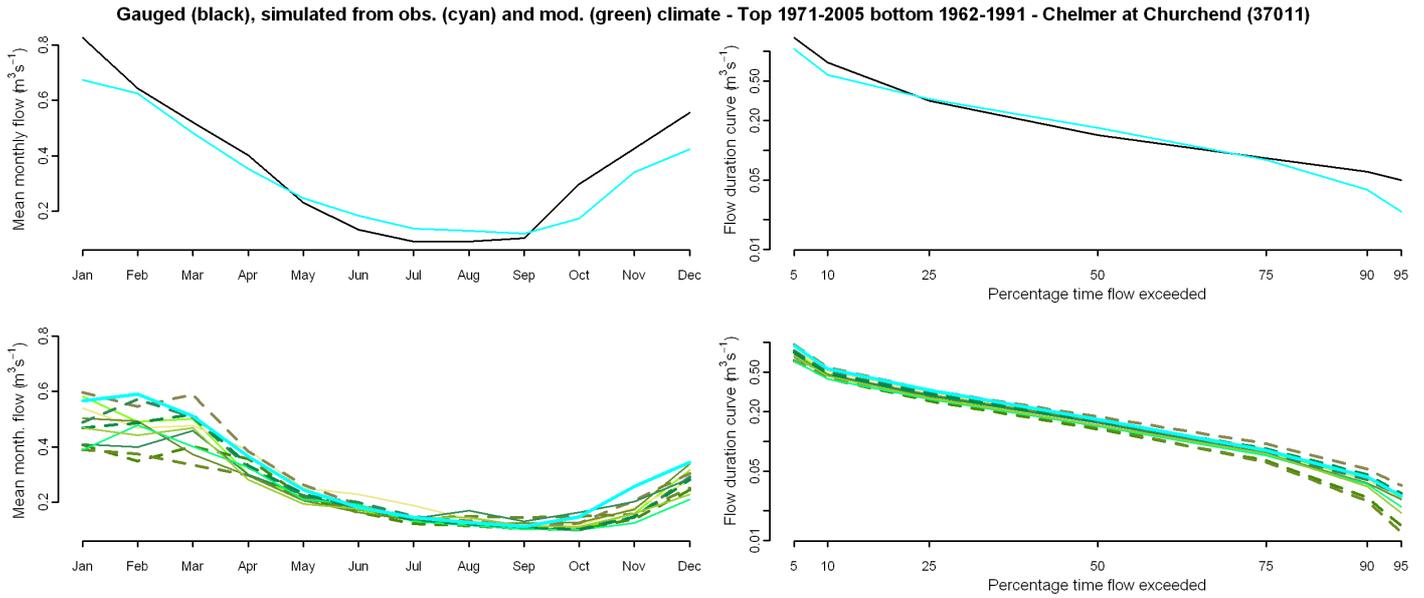
Gauged (black) and simulated (cyan) flows from observed climate - Chelmer at Churchend (37011)



Gauged (black) and simulated (cyan) flows from observed climate - Chelmer at Churchend (37011)



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	-8	-26	-3	3	-16	-23	-14	-8	-23	-10	-18
January	3	-33	-3	6	-12	-32	-31	-11	-30	-12	-18
April	-16	-13	12	13	-18	-21	-16	-6	-8	-7	-19
July	-6	-15	35	5	-10	-3	-1	6	-4	-4	-1
October	-26	-29	-18	-11	-29	3	15	-24	-28	-30	-26
Q90	-5	-40	-3	25	-14	-45	-21	-5	-16	5	-20
Q75	-2	-24	5	19	-11	-27	-7	-3	-11	4	-9
Q50	-7	-22	1	8	-7	-18	-9	-3	-14	-4	-14
Q25	-12	-25	-2	2	-13	-18	-14	-4	-18	-8	-18
Q5	-12	-35	-6	5	-20	-33	-24	-7	-29	-12	-25
RP2	-4	-30	-14	-14	-29	-23	-7	-8	-23	-12	-24
RP10	0	-18	6	-6	-21	-11	-12	-3	-9	-8	-16

Climate change graphs for 2050s

