General Information

|			
River Name	Belchamp Brook	Catchment Area (km2)	59
Station Name	Bardfield Bridge	SAAR (mm) 61-90	560
Station Number	36007	Mean Annual Rain (mm) 62-91	561
Grid Reference	TL848421	Mean Annual PE (mm) 62-91	599
EA Region	EA-A	Observed flow record	1962 to 2005
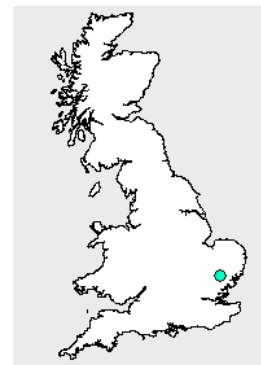
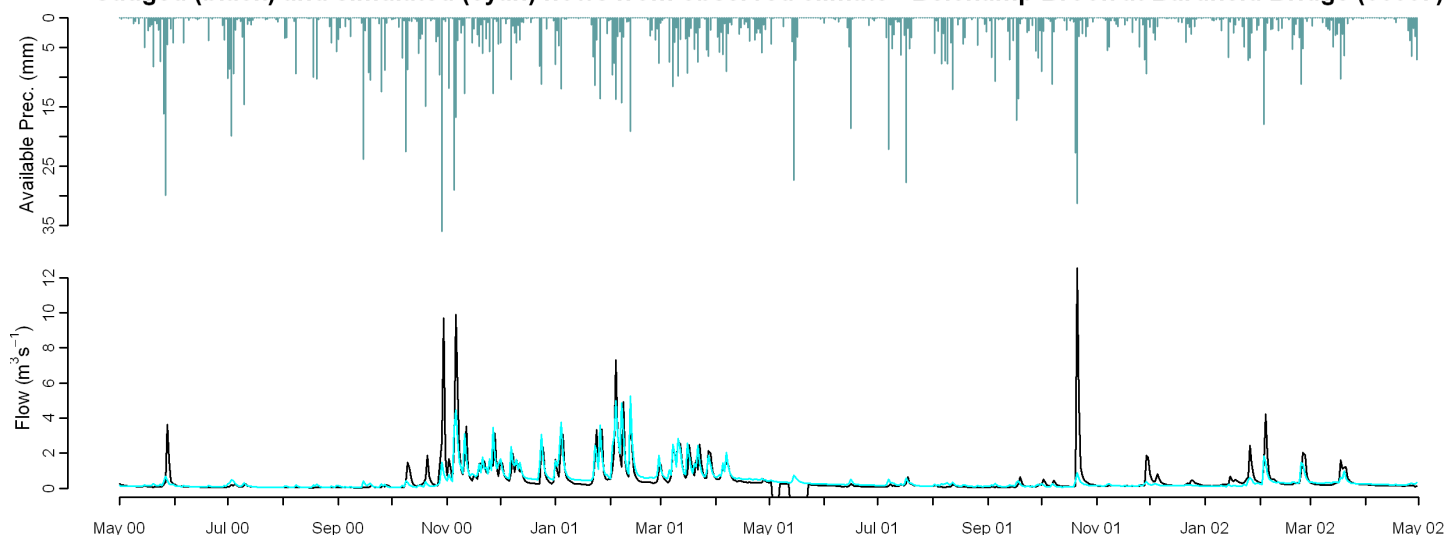## Observed Data   Comparison of gauged and simulated flow   Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	15.2	-9.8	17.6	10.4	21.5	57.7	94.2	112.0	98.2	90.8	-21.1	-12.0	-4.5	0.53
Performance Band	1	2	1	1	2	3	3	3	3	3	2	2	2	2
MORECS (1962-1991)	16.1	-13.9	17.2	10.2	26.8	64.9	98.7	160	115	75.1	7.2	2.9	-11.3	0.53

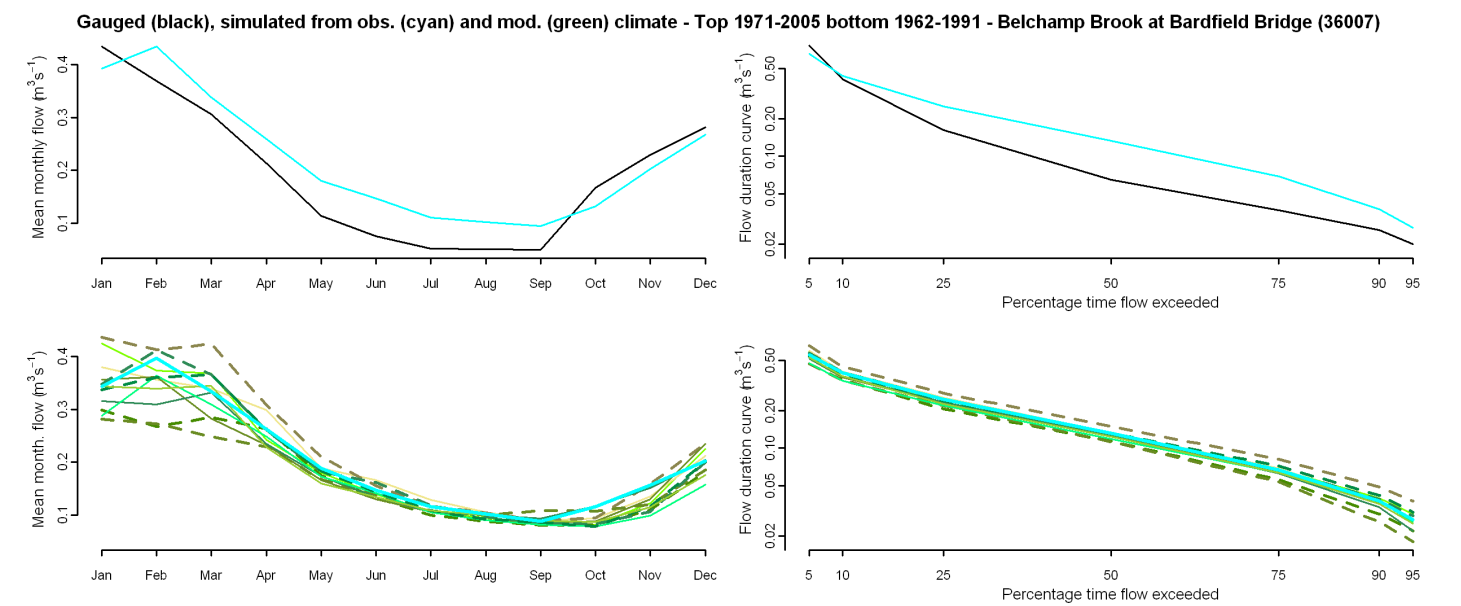|	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20
MORECS (1971-2005)	46.1	86.1	105.0	54.0	-14.0				
Performance Band	2	1	1	2	2				
MORECS (1962-1991)	58.8	91.0	121.5	61.3	-16.3				

Gauged (black) and simulated (cyan) flows from observed climate - Belchamp Brook at Bardfield Bridge (36007)
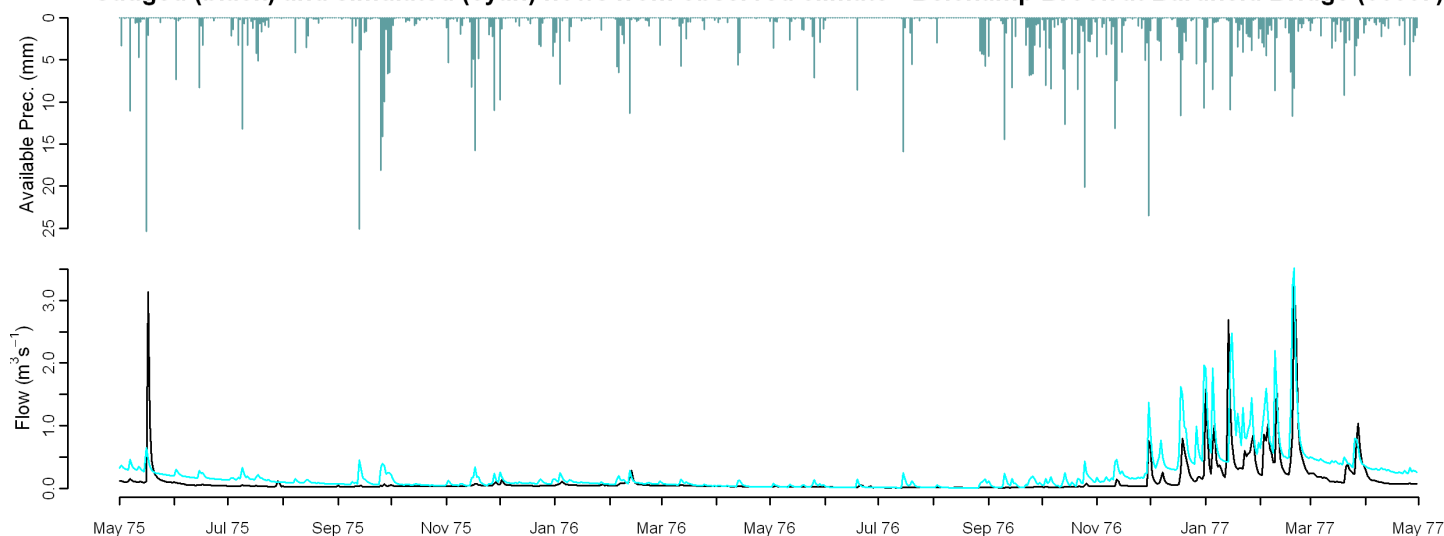
Gauged (black) and simulated (cyan) flows from observed climate - Belchamp Brook at Bardfield Bridge (36007)

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 - Belchamp Brook at Bardfield Bridge (36007)

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

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	3	-17	5	16	-6	-15	-6	0	-13	-2	-9
January	23	-20	13	28	6	-18	-12	4	-15	3	-1
April	-6	-9	19	26	-9	-14	-9	4	-4	2	-10
July	-7	-14	16	7	-10	-9	-6	5	-6	-5	-6
October	-26	-27	-17	-14	-29	-6	4	-27	-28	-30	-26
Q90	5	-23	-1	34	-3	-32	-11	3	-1	9	-6
Q75	3	-18	5	25	-5	-21	-5	3	-5	7	-6
Q50	-2	-16	4	16	-4	-16	-5	2	-8	1	-7
Q25	-6	-21	5	14	-6	-14	-7	2	-11	-2	-11
Q5	6	-20	9	22	-7	-18	-9	6	-14	1	-10
RP2	16	-25	0	4	-19	-8	-3	2	-14	-13	-18
RP10	7	-12	9	6	-22	-14	-15	0	-14	-13	-20

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Belchamp Brook at Bardfield Bridge (36007)