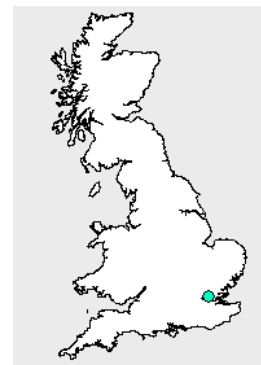


General Information

River Name	Beam	Catchment Area (km2)	50
Station Name	Bretons Farm	SAAR (mm) 61-90	587
Station Number	37019	Mean Annual Rain (mm) 62-91	589
Grid Reference	TQ515853	Mean Annual PE (mm) 62-91	613
EA Region	EA-SE	Observed flow record	1965 to 2006



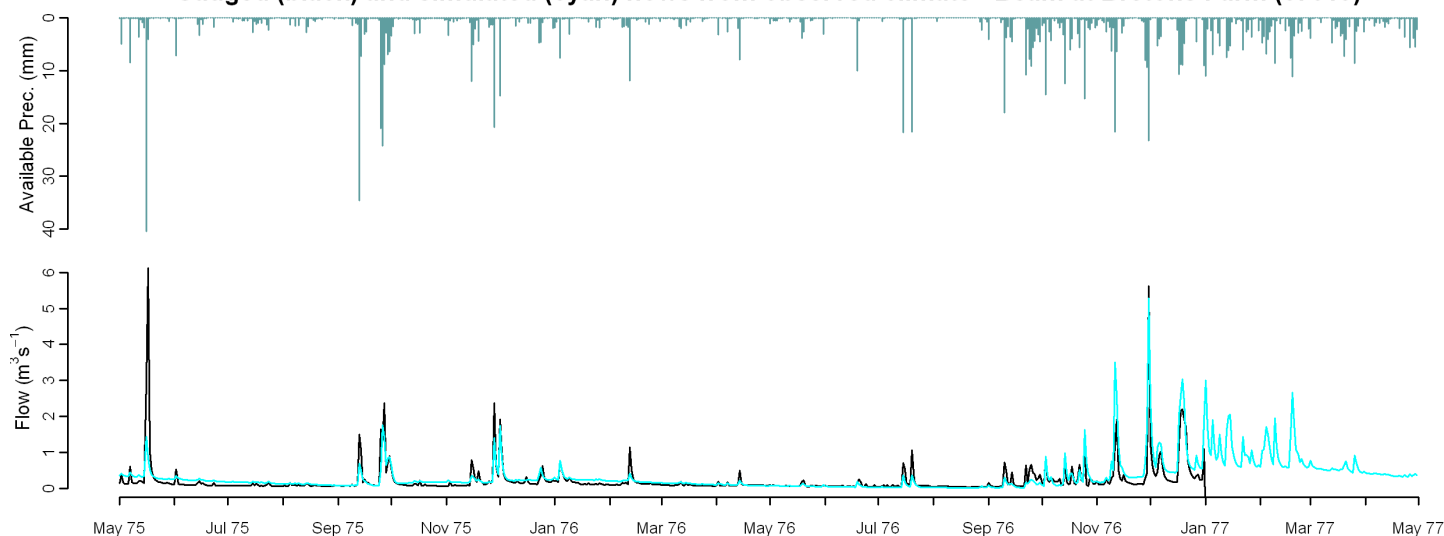
Observed Data

Comparison of gauged and simulated flow

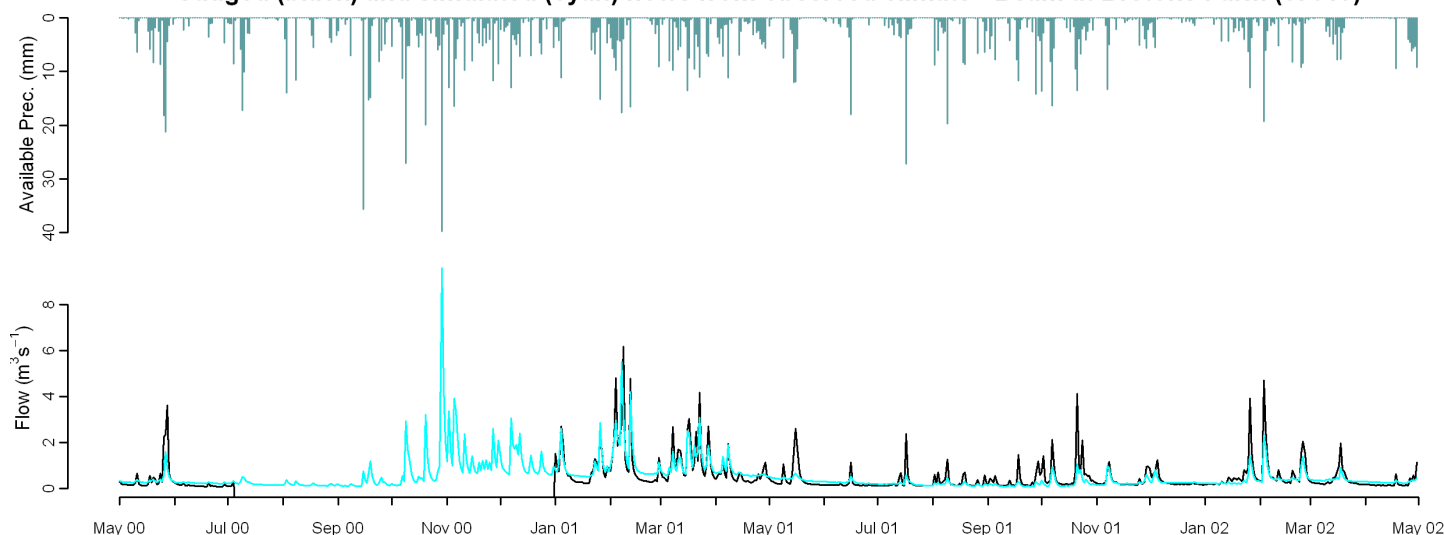
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-12.6	-2.1	12.0	-4.1	-12.1	-17.2	-23.3	-29.4	-40.6	-44.3	-26.1	-11.8	-5.9	0.66
Performance Band	2	1	1	1	2	2	2	2	3	3	2	2	2	2
MORECS (1962-1991)	-12.1	-7.0	7.2	-7.0	-8.3	-12.6	-20.2	-25.7	-34.0	-35.3	-19.7	-12.3	-9.3	0.63
	Q90	Q75	Q50	Q25	Q5			RP2	RP5	RP10	RP20			
MORECS (1971-2005)	-28.1	-2.7	18.8	1.9	-22.6									
Performance Band	1	1	2	2	2									
MORECS (1962-1991)	-13.6	8.7	19.6	0.3	-28.2									

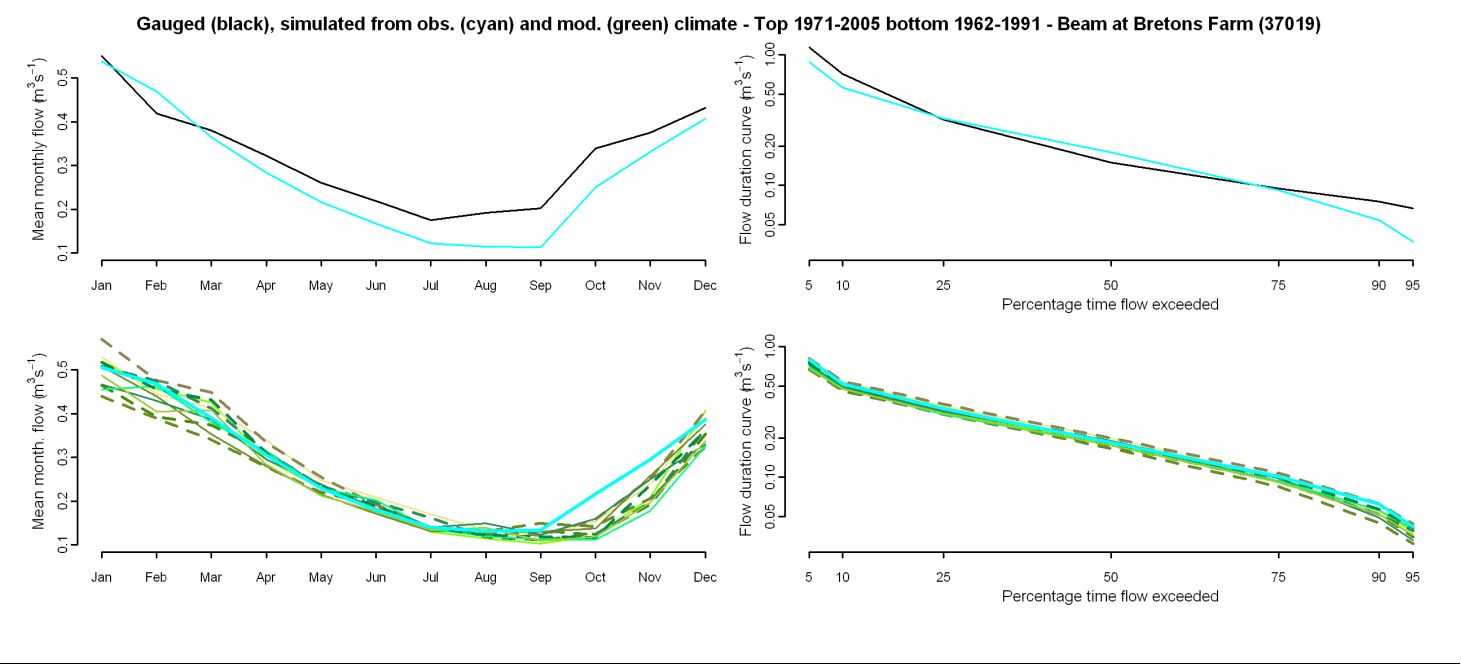
Gauged (black) and simulated (cyan) flows from observed climate - Beam at Bretons Farm (37019)



Gauged (black) and simulated (cyan) flows from observed climate - Beam at Bretons Farm (37019)



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	-5	-11	1	4	-7	-14	-6	-4	-11	-2	-10
January	2	-12	8	13	2	-13	-12	2	-10	6	-5
April	-1	-2	16	14	-7	-10	0	6	3	4	-5
July	-5	-1	25	4	-10	-1	3	18	2	1	-4
October	-41	-42	-29	-23	-41	-34	-24	-43	-45	-45	-45
Q90	-11	-19	-13	7	-21	-30	-20	-16	-11	-9	-17
Q75	-2	-9	-3	8	-12	-20	-3	-5	-5	-3	-10
Q50	-2	-6	8	8	-3	-12	2	2	-5	1	-6
Q25	-4	-11	5	8	-4	-12	-5	2	-9	1	-9
Q5	-5	-17	1	3	-9	-19	-12	-3	-12	-4	-15
RP2	-7	-11	0	-1	-10	-4	-11	-8	-1	3	-2
RP10	-23	0	3	-18	-13	-1	-13	-28	-8	-16	-17

Climate change graphs for 2050s

