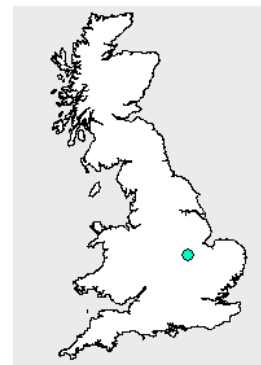


General Information

River Name	Morcott Brook	Catchment Area (km2)	20
Station Name	South Luffenham	SAAR (mm) 61-90	633
Station Number	31020	Mean Annual Rain (mm) 62-91	637
Grid Reference	SK939018	Mean Annual PE (mm) 62-91	593
EA Region	EA-A	Observed flow record	1970 to 1985



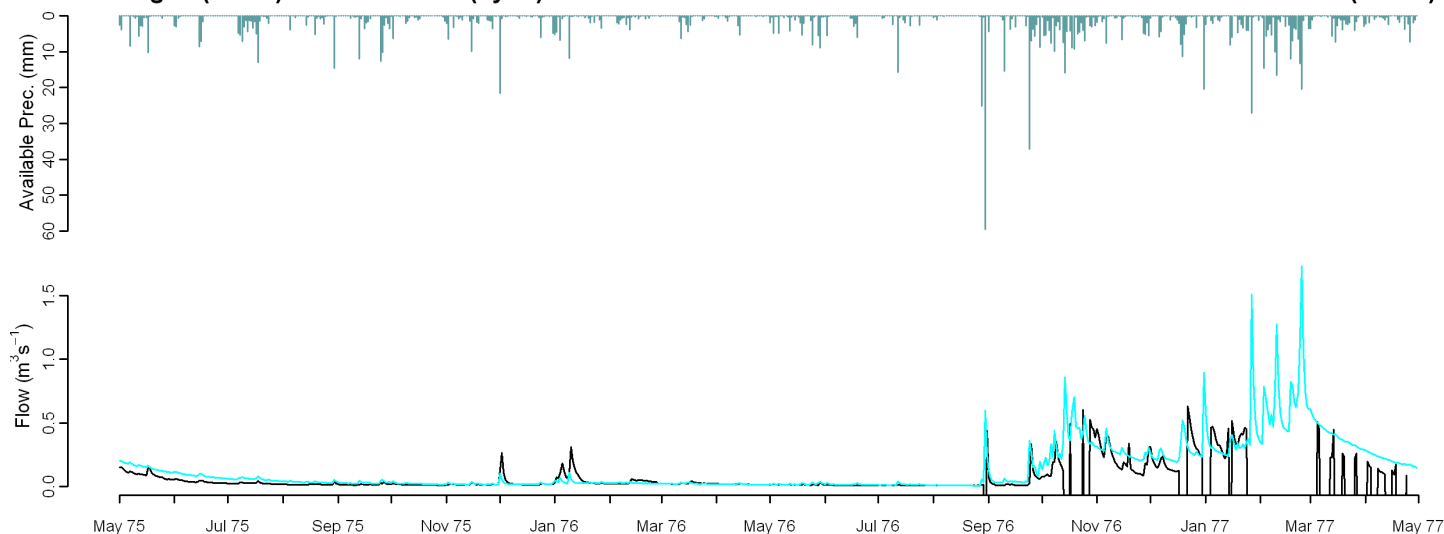
Observed Data

Comparison of gauged and simulated flow

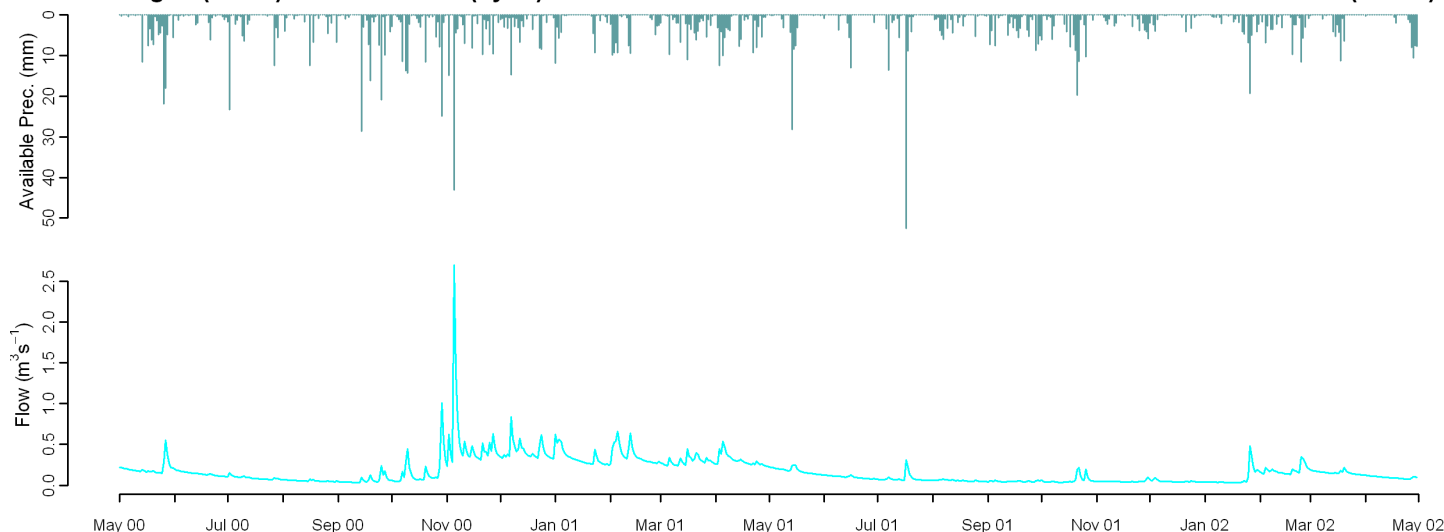
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-41.7	-53.6	-28.8	-13.3	12.3	52.2	25.8	16.7	3.3	7.0	-52.7	-24.6	-36.3	0.47
Performance Band	1	2	1	2	2	2	2	1	1	2	2	3	2	2
MORECS (1962-1991)	-41.7	-53.6	-28.8	-13.3	12.3	54.9	31.2	20.8	8.1	10.0	-49.7	-24.6	-36.3	0.48
	Q90	Q75	Q50	Q25	Q5			RP2	RP5	RP10	RP20			
MORECS (1971-2005)	41.8	23.1	-1.2	0.3	-15.5									
Performance Band	1	1	1	2	1									
MORECS (1962-1991)	46.1	30.7	4.4	4.2	-14.9									

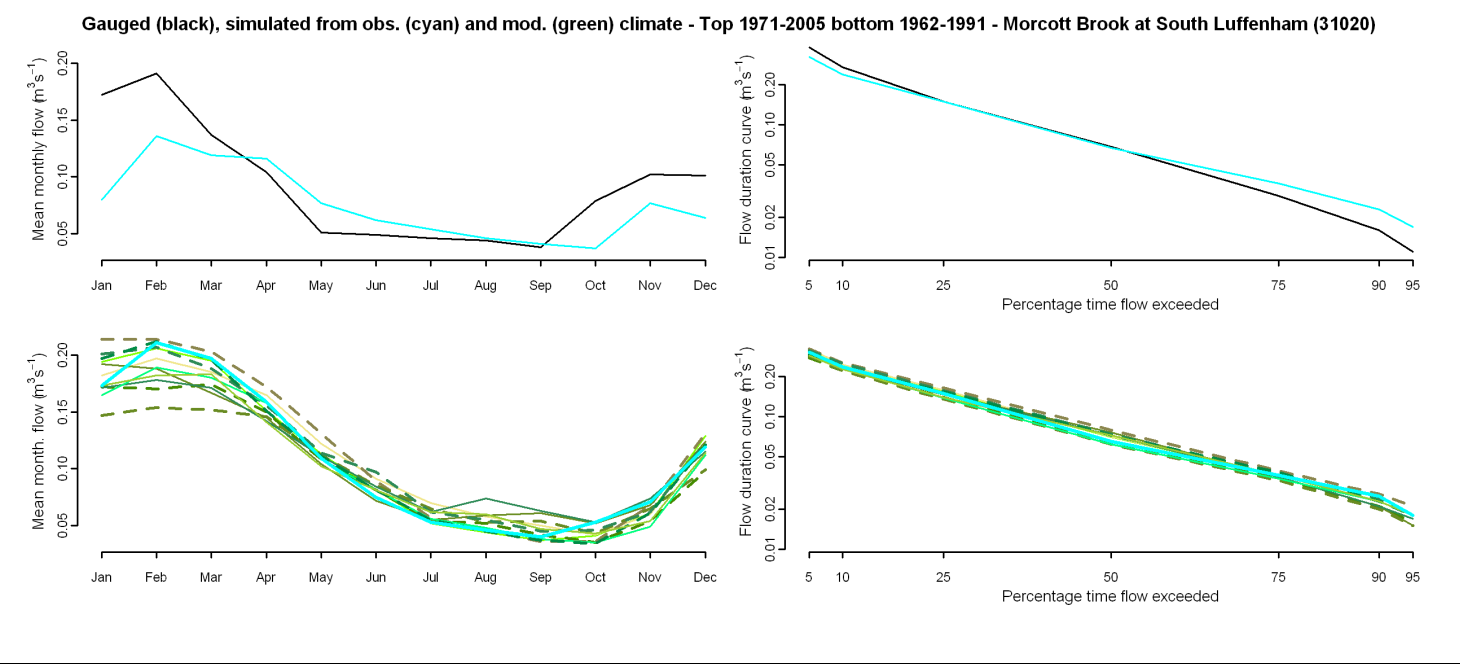
Gauged (black) and simulated (cyan) flows from observed climate - Morcott Brook at South Luffenham (31020)



Gauged (black) and simulated (cyan) flows from observed climate - Morcott Brook at South Luffenham (31020)



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	2	-10	6	9	-2	-9	-2	6	-7	0	-7
January	11	-8	9	23	11	-14	-7	19	-1	12	-3
April	-1	-10	11	13	-7	-10	-10	3	1	-4	-10
July	3	3	37	10	2	21	21	26	7	5	18
October	-21	-32	-20	-24	-15	-15	2	-9	-33	-35	-23
Q90	-4	-16	-6	4	-19	-18	-15	-3	-6	-7	-7
Q75	0	-7	0	7	-7	-9	-4	5	-4	6	0
Q50	9	-3	12	24	11	-5	11	19	-3	10	8
Q25	2	-10	8	10	-5	-12	-4	9	-7	2	-10
Q5	1	-12	6	8	-5	-8	-4	6	-4	-4	-9
RP2	-2	-11	-1	10	5	2	9	9	3	9	-7
RP10	7	-2	17	17	38	18	48	24	21	13	7

Climate change graphs for 2050s

