

General Information

River Name	Morcott Brook	Catchment Area (km ²)	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



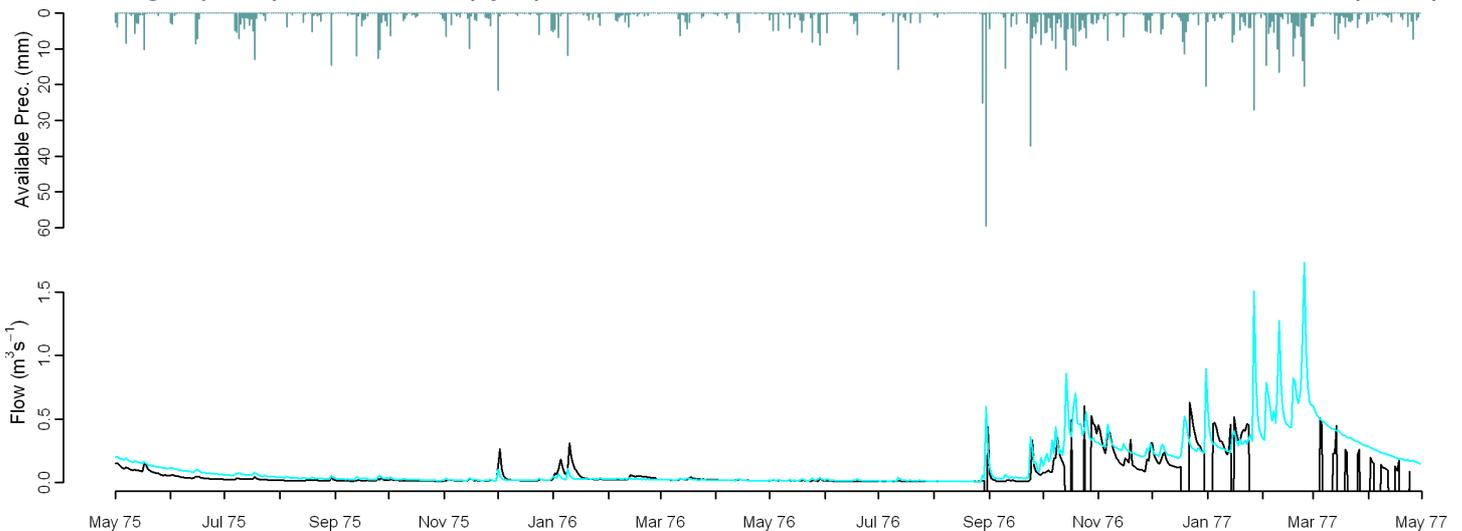
Observed Data

Comparison of gauged and simulated flow

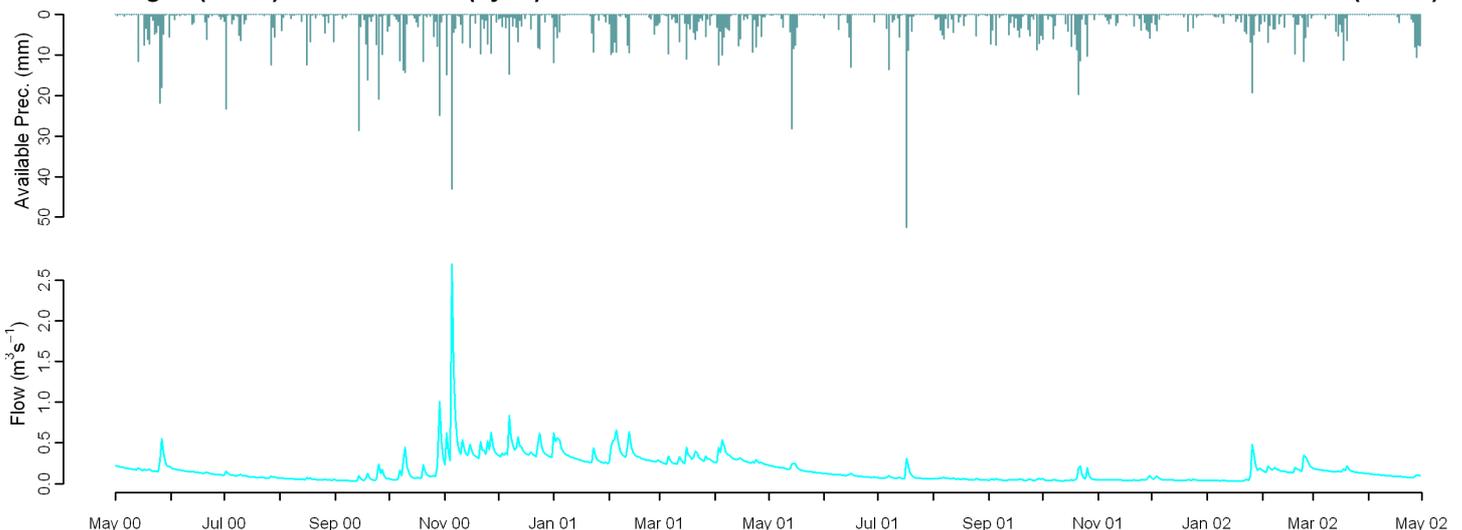
Model used: CERF

	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)

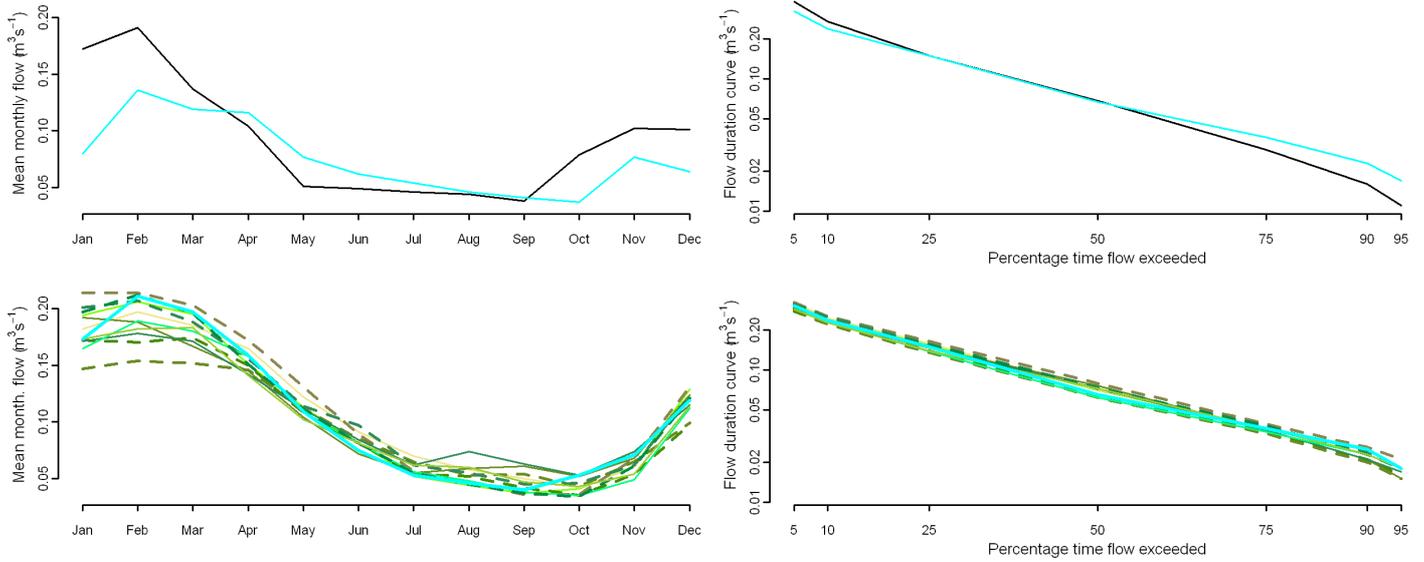


Gauged (black) and simulated (cyan) flows from observed climate - Morcott Brook at South Luffenham (31020)



Comparison of gauged and simulated flow (observed and modelled climate)

Gauged (black), simulated from obs. (cyan) and mod. (green) climate - Top 1971-2005 bottom 1962-1991 - Morcott Brook at South Luffenham (31020)



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

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Morcott Brook at South Luffenham (31020)

