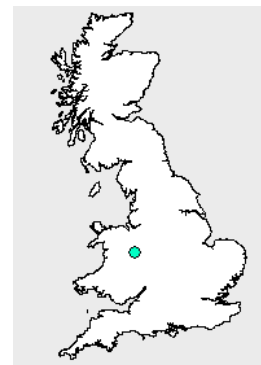


General Information

River Name	Rea Brook	Catchment Area (km2)	178
Station Name	Hookagate	SAAR (mm) 61-90	756
Station Number	54018	Mean Annual Rain (mm) 62-91	758
Grid Reference	SJ466092	Mean Annual PE (mm) 62-91	530
EA Region	EA-M	Observed flow record	1962 to 2005



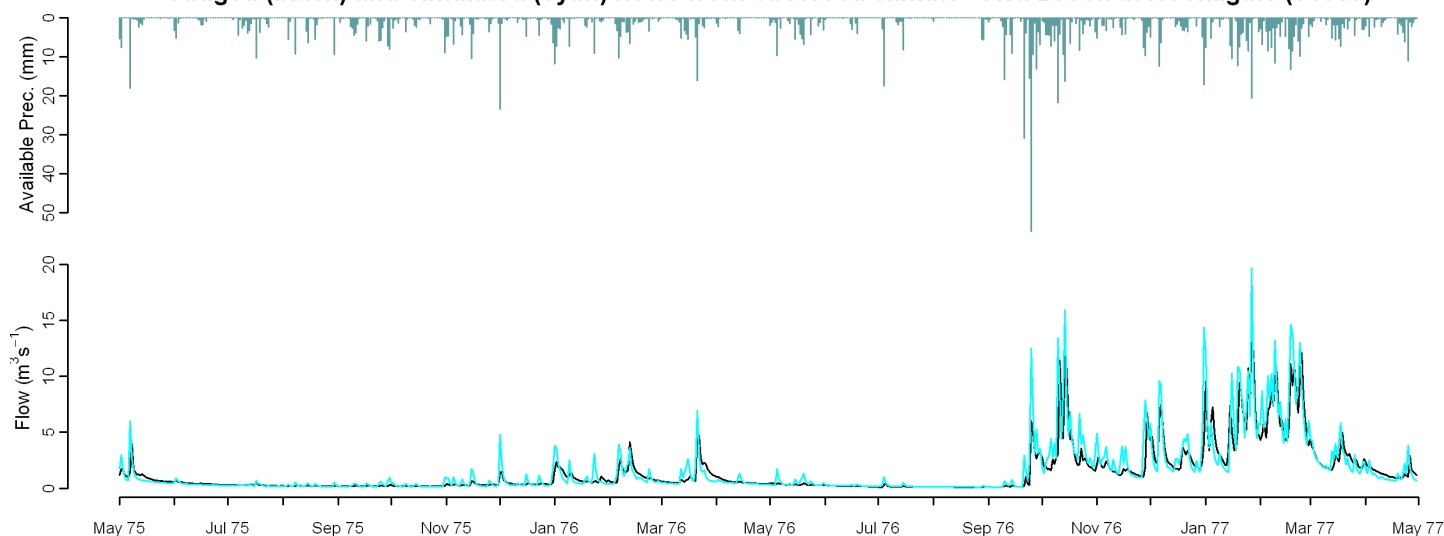
Observed Data

Comparison of gauged and simulated flow

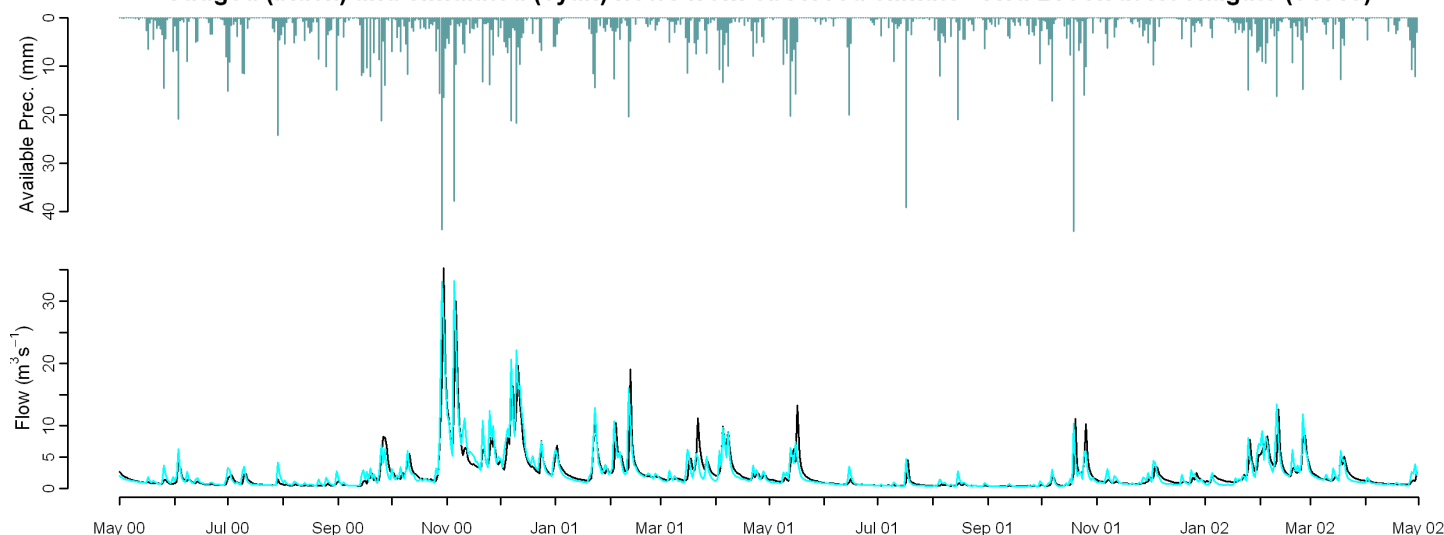
Model used: PDM

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	3.9	6.1	7.4	-5.9	-7.3	-3.5	5.4	25.0	38.3	28.1	5.0	3.8	0.8	0.69
Performance Band	1	1	1	1	1	1	1	2	3	2	1	1	1	1
FAO (1962-1991)	7.4	10.8	8.8	-4.4	-0.1	-4.5	13.6	17.4	33.9	35.8	13.3	8.5	8.8	0.67
	Q90	Q75	Q50	Q25	Q5				RP2	RP5	RP10	RP20		
MORECS (1971-2005)	-0.8	3.0	-2.5	2.9	6.7				2.0	6.5	10.1	13.7		
Performance Band	1	1	1	1	1									
FAO (1962-1991)	4.9	11.0	4.0	8.1	10.7				0.2	3.0	6.9	11.9		

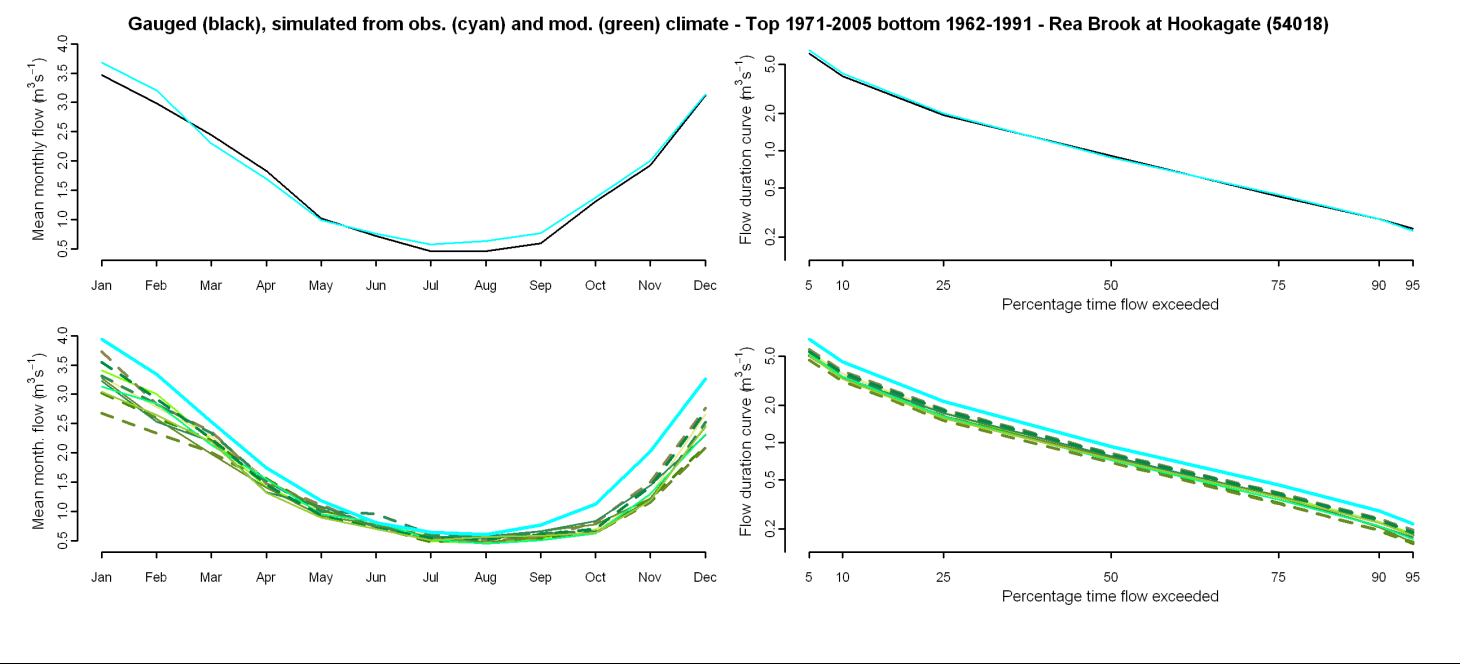
Gauged (black) and simulated (cyan) flows from observed climate - Rea Brook at Hookagate (54018)



Gauged (black) and simulated (cyan) flows from observed climate - Rea Brook at Hookagate (54018)



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	-19	-24	-18	-13	-22	-28	-20	-16	-22	-17	-25
January	-12	-23	-11	-1	-13	-27	-18	-11	-16	-11	-19
April	-20	-19	-9	-14	-22	-17	-25	-15	-14	-17	-23
July	-23	-18	-8	-18	-20	-13	-11	-9	-19	-17	-23
October	-36	-44	-41	-30	-34	-43	-25	-40	-44	-38	-25
Q90	-17	-32	-19	-15	-28	-32	-25	-20	-25	-16	-20
Q75	-17	-29	-20	-14	-21	-30	-21	-15	-23	-16	-22
Q50	-19	-23	-19	-11	-22	-27	-17	-14	-22	-15	-22
Q25	-20	-25	-17	-12	-24	-29	-19	-16	-24	-15	-28
Q5	-22	-26	-19	-16	-25	-32	-25	-18	-23	-21	-27
RP2	-15	-9	-15	-3	-14	-22	-8	-10	-14	-5	-16
RP10	-13	-14	-14	0	-13	-14	2	-12	-4	-1	-5

Climate change graphs for 2050s

