

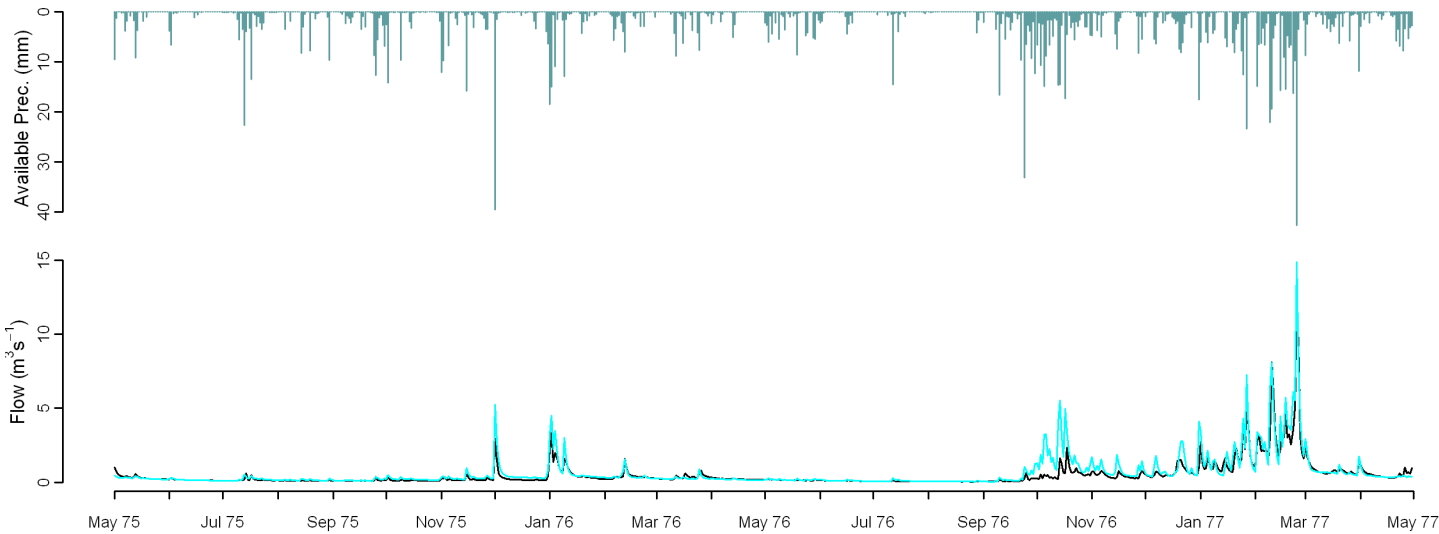
General Information

River Name	Ecclesbourne	Catchment Area (km2)	50
Station Name	Duffield	SAAR (mm) 61-90	853
Station Number	28055	Mean Annual Rain (mm) 62-91	859
Grid Reference	SK320447	Mean Annual PE (mm) 62-91	573
EA Region	EA-M	Observed flow record	1971 to 2005

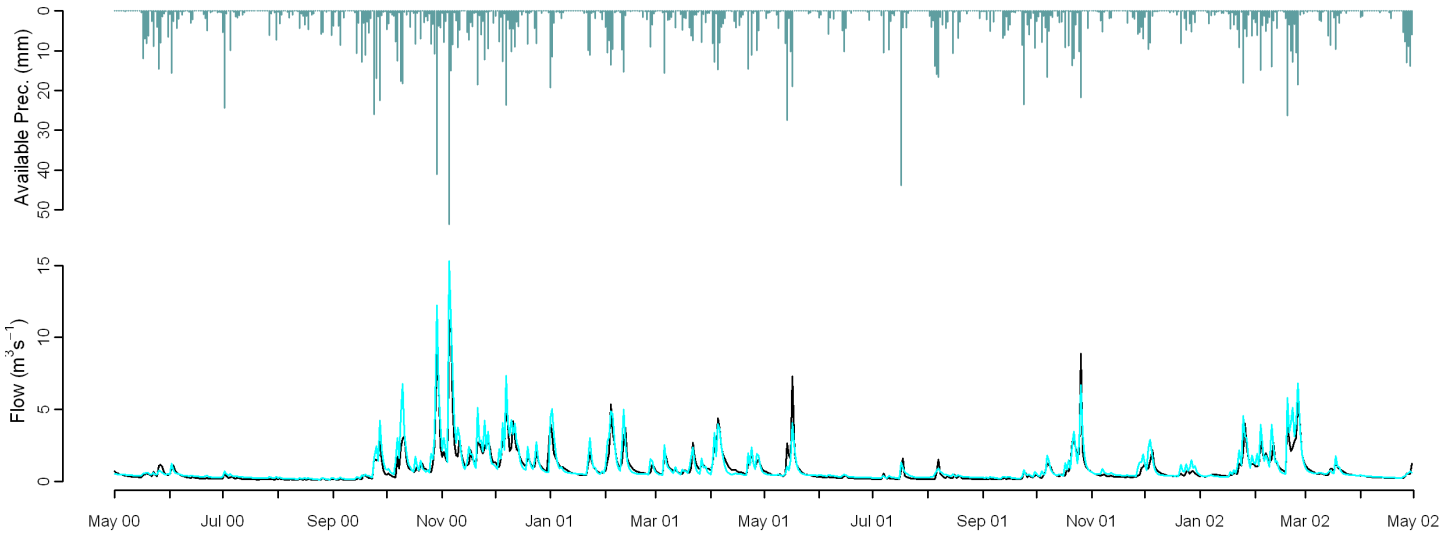


Observed Data	Comparison of gauged and simulated flow													Model used: CERF
	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	14.4	12.5	10.5	-5.4	-11.8	-10.7	11.7	36.8	37.6	44.9	36.0	29.3	21.1	0.71
Performance Band	2	2	1	1	1	1	2	3	2	3	1	2	2	1
MORECS (1962-1991)	8.3	8.6	7.9	-6.5	-15.9	-21.7	10.0	21.2	25.2	30.1	41.2	25.5	17.0	0.72
	Q90	Q75	Q50	Q25	Q5									
MORECS (1971-2005)	46.7	48.4	15.3	-7.6	25.3									
Performance Band	1	1	1	2	2									
MORECS (1962-1991)	37.1	44.0	10.4	-9.2	26.3									

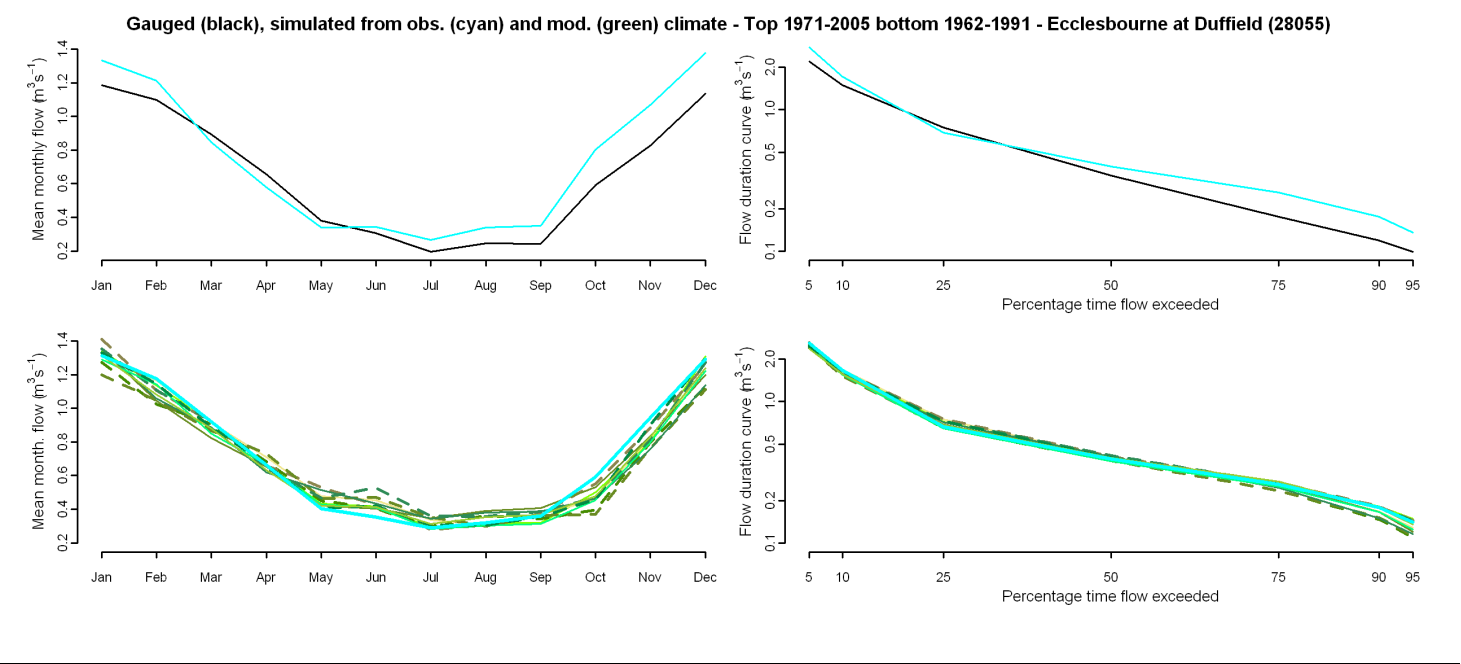
Gauged (black) and simulated (cyan) flows from observed climate - Ecclesbourne at Duffield (28055)



Gauged (black) and simulated (cyan) flows from observed climate - Ecclesbourne at Duffield (28055)



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	0	-5	1	2	-2	-5	-4	2	-6	-2	-4
January	6	-7	4	5	2	-6	2	4	-3	-1	-1
April	2	-5	12	4	-3	11	-6	-1	3	1	-2
July	4	10	24	-1	17	22	20	25	-1	4	8
October	-14	-31	-22	0	-13	-34	-18	-16	-24	-21	-19
Q90	3	-18	-5	2	-12	-16	-17	0	-7	-2	0
Q75	1	-9	-1	3	-3	-9	-7	4	-3	0	5
Q50	1	-3	3	4	1	-3	3	6	-4	1	1
Q25	8	-2	14	15	2	1	8	13	-2	9	3
Q5	-4	-8	0	-2	-6	-6	-8	3	-7	-6	-9
RP2	-3	-2	-6	6	12	3	8	10	8	-1	-4
RP10	-5	10	-5	10	17	3	7	3	30	1	6

Climate change graphs for 2050s

