

General Information

River Name	Dove	Catchment Area (km ²)	59
Station Name	Kirkby Mills	SAAR (mm) 61-90	899
Station Number	27042	Mean Annual Rain (mm) 62-91	902
Grid Reference	SE705855	Mean Annual PE (mm) 62-91	512
EA Region	EA-NE	Observed flow record	1972 to 2005



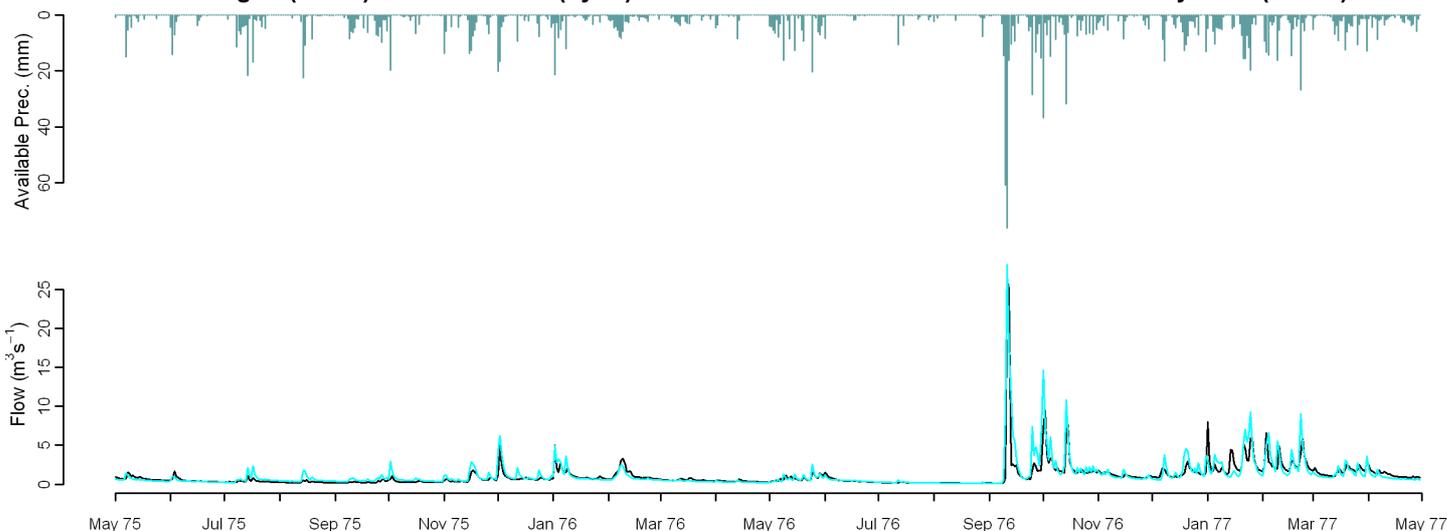
Observed Data

Comparison of gauged and simulated flow

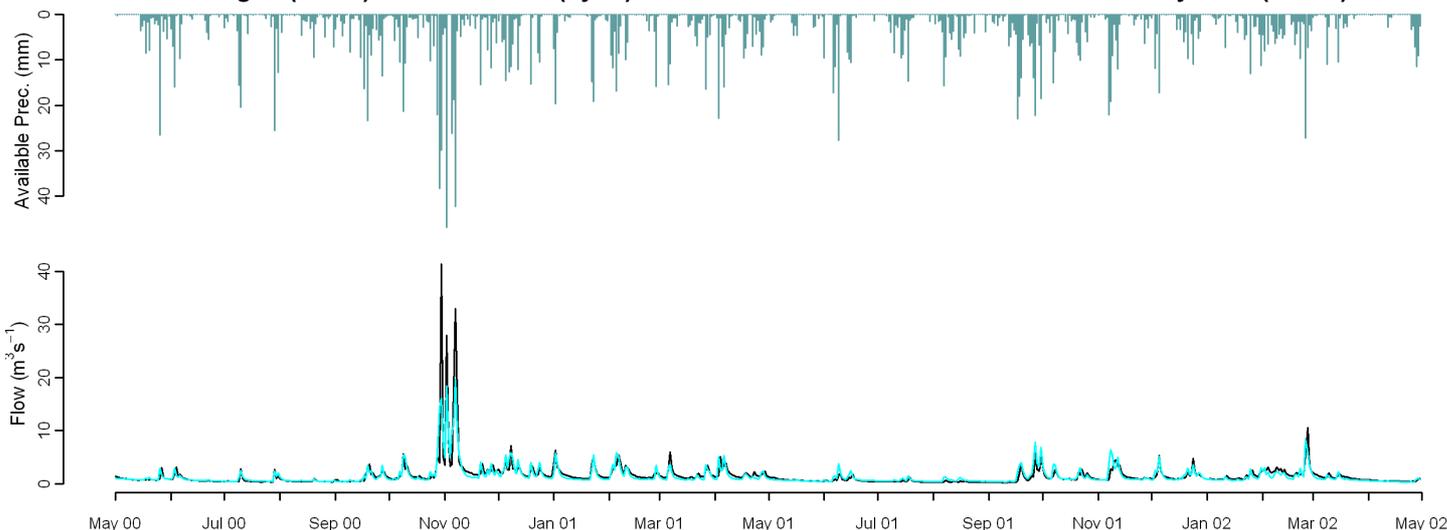
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	3.9	-4.2	-4.5	-11.5	-14.7	-8.7	7.3	29.3	40.7	37.9	19.8	8.7	7.1	0.65
Performance Band	1	1	1	1	2	1	1	2	2	3	2	1	1	2
MORECS (1962-1991)	5.7	-1.8	-6.4	-8.4	-14.1	-8.3	1.7	26.7	36.3	44.0	25.2	17.1	8.4	0.62
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	17.5	12.6	-4.4	-8.8	25.7									
Performance Band	1	1	1	2	2									
MORECS (1962-1991)	10.3	10.9	-4.1	-7.3	29.5									

Gauged (black) and simulated (cyan) flows from observed climate - Dove at Kirkby Mills (27042)

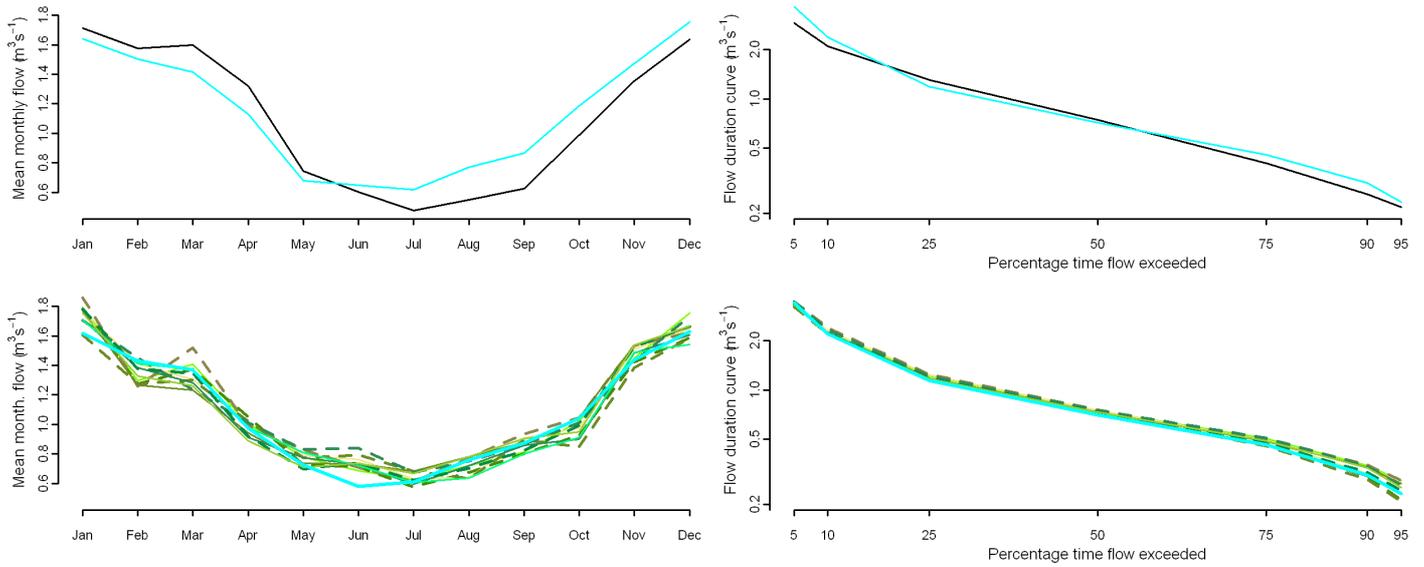


Gauged (black) and simulated (cyan) flows from observed climate - Dove at Kirkby Mills (27042)



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 - Dove at Kirkby Mills (27042)



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	1	4	8	2	1	-1	5	0	0	1
January	13	3	12	14	9	3	6	7	6	10	6
April	3	-2	9	5	-1	4	-7	8	0	-4	-3
July	4	7	6	3	12	13	-2	13	1	-1	10
October	4	-6	-5	9	3	-14	-1	5	-8	-3	-7
Q90	15	-1	3	15	9	-7	-5	13	-2	-2	10
Q75	10	3	6	10	4	-2	-2	12	-2	0	5
Q50	7	4	7	10	4	3	3	8	2	3	4
Q25	8	3	9	10	3	2	2	8	1	3	2
Q5	0	-3	-1	3	-2	-5	-4	6	-5	0	-3
RP2	1	4	12	6	9	15	6	5	11	16	9
RP10	-2	-1	4	-10	-6	4	10	-1	15	8	10

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Dove at Kirkby Mills (27042)

