

General Information

River Name	Aire	Catchment Area (km ²)	282
Station Name	Kildwick Bridge	SAAR (mm) 61-90	1149
Station Number	27035	Mean Annual Rain (mm) 62-91	1151
Grid Reference	SE013457	Mean Annual PE (mm) 62-91	538
EA Region	EA-NE	Observed flow record	1968 to 2005



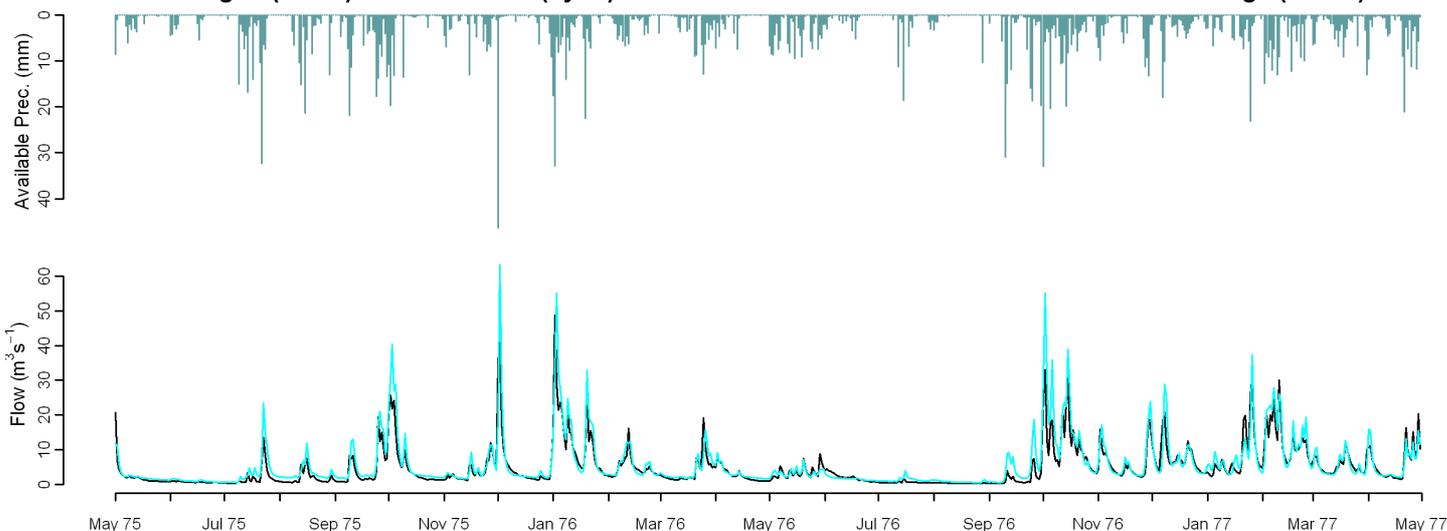
Observed Data

Comparison of gauged and simulated flow

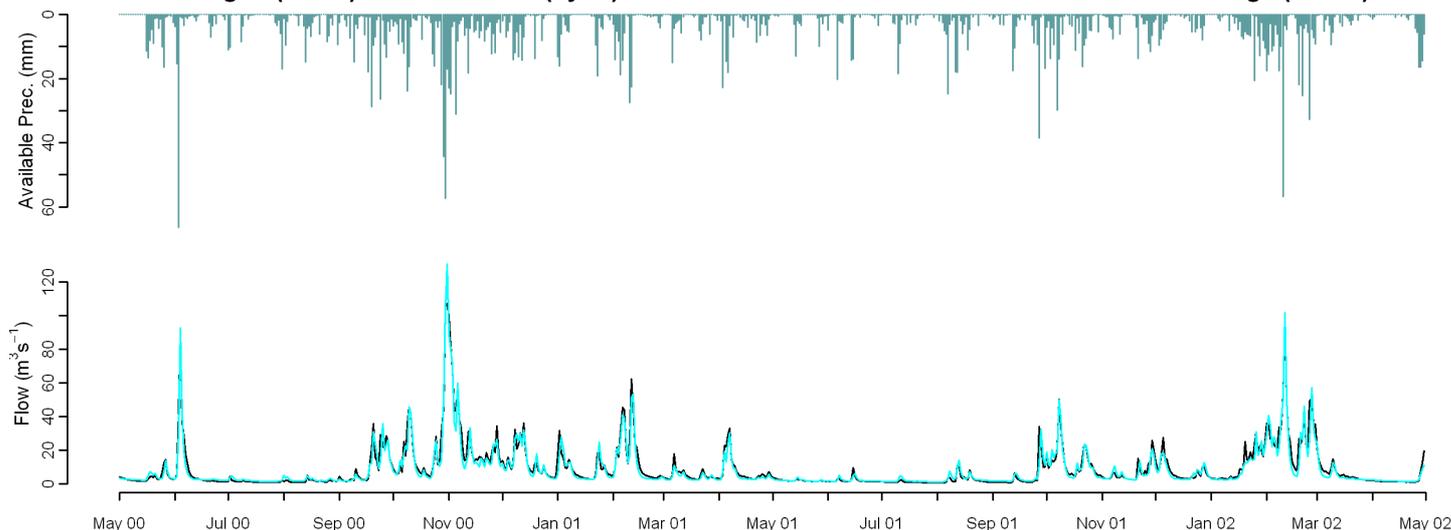
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	1.3	-2.0	-2.9	-5.1	-5.3	-4.3	3.5	22.3	8.2	20.5	8.9	1.6	1.1	0.86
Performance Band	1	1	1	1	1	1	1	2	1	2	1	1	1	1
MORECS (1962-1991)	6.1	1.5	1.2	-0.3	2.6	-1.3	10.1	30.3	14.6	25.2	14.7	5.2	2.4	0.83
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	63.5	39.1	-3.7	-8.0	2.5									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	76.4	47.7	-1.4	-3.4	6.6									

Gauged (black) and simulated (cyan) flows from observed climate - Aire at Kildwick Bridge (27035)

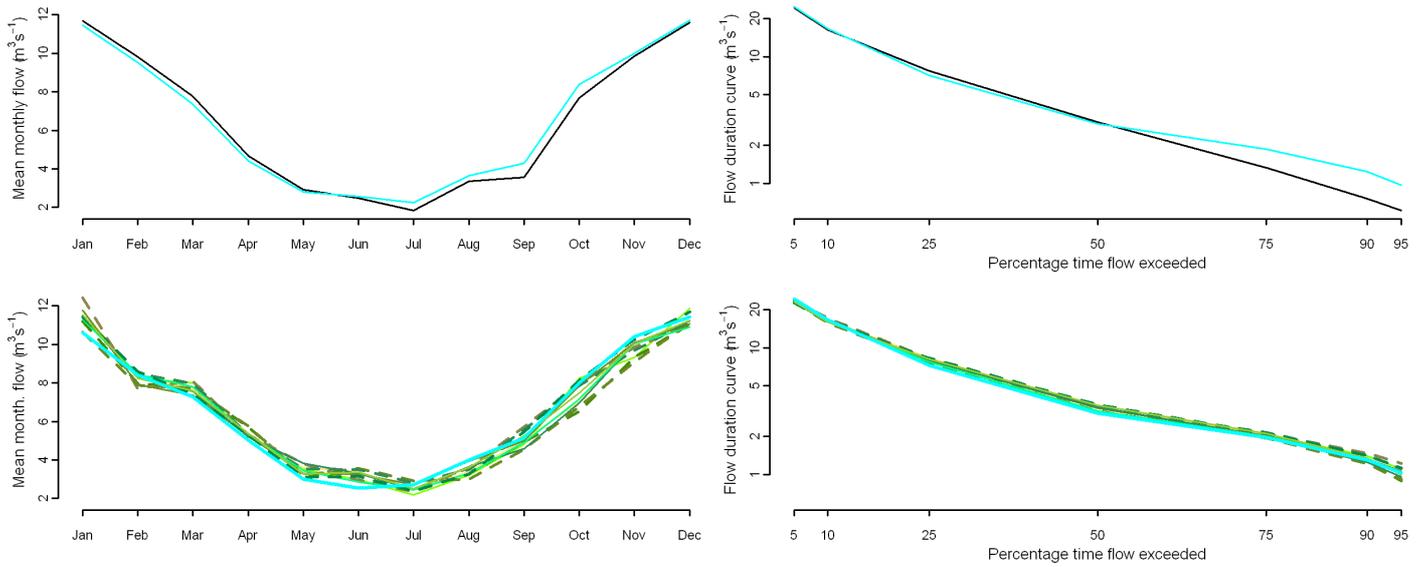


Gauged (black) and simulated (cyan) flows from observed climate - Aire at Kildwick Bridge (27035)



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 - Aire at Kildwick Bridge (27035)



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	-2	3	7	3	0	-1	4	1	2	2
January	12	3	12	15	12	6	6	11	8	5	12
April	4	4	8	13	4	15	3	11	4	6	7
July	-19	-3	-3	-7	0	8	-8	4	-13	-14	-8
October	4	-12	-13	6	-2	-12	-2	-1	-8	2	-5
Q90	9	-6	2	15	0	-8	-7	8	2	3	3
Q75	6	0	5	9	2	-3	-1	10	1	5	7
Q50	11	5	11	14	10	4	12	13	5	15	15
Q25	12	4	14	17	9	6	9	14	7	14	11
Q5	-5	-6	-2	-1	-3	-5	-7	0	-5	-7	-6
RP2	-4	-1	-7	-1	1	3	-5	1	2	-3	-3
RP10	4	11	-6	-2	5	6	4	2	14	0	8

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Aire at Kildwick Bridge (27035)

