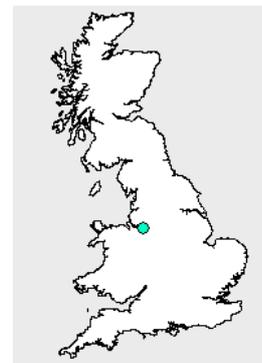


## General Information

River Name	Dane	Catchment Area (km <sup>2</sup> )	407
Station Name	Rudheath	SAAR (mm) 61-90	853
Station Number	68003	Mean Annual Rain (mm) 62-91	847
Grid Reference	SJ668718	Mean Annual PE (mm) 62-91	609
EA Region	EA-NW	Observed flow record	1962 to 2005



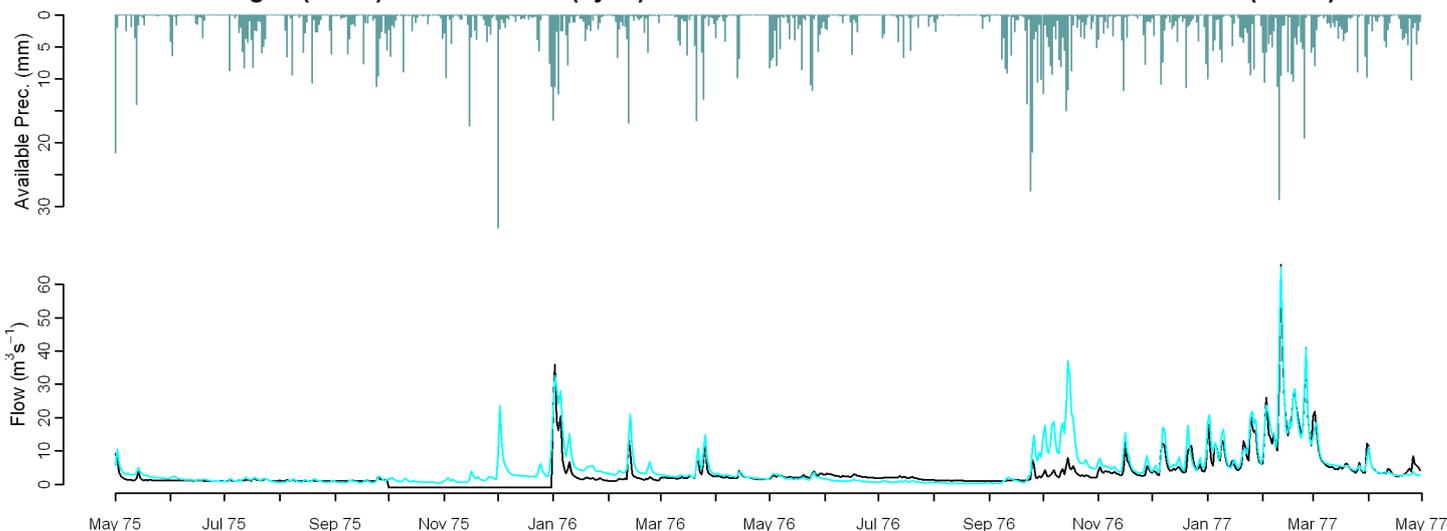
## Observed Data

## Comparison of gauged and simulated flow

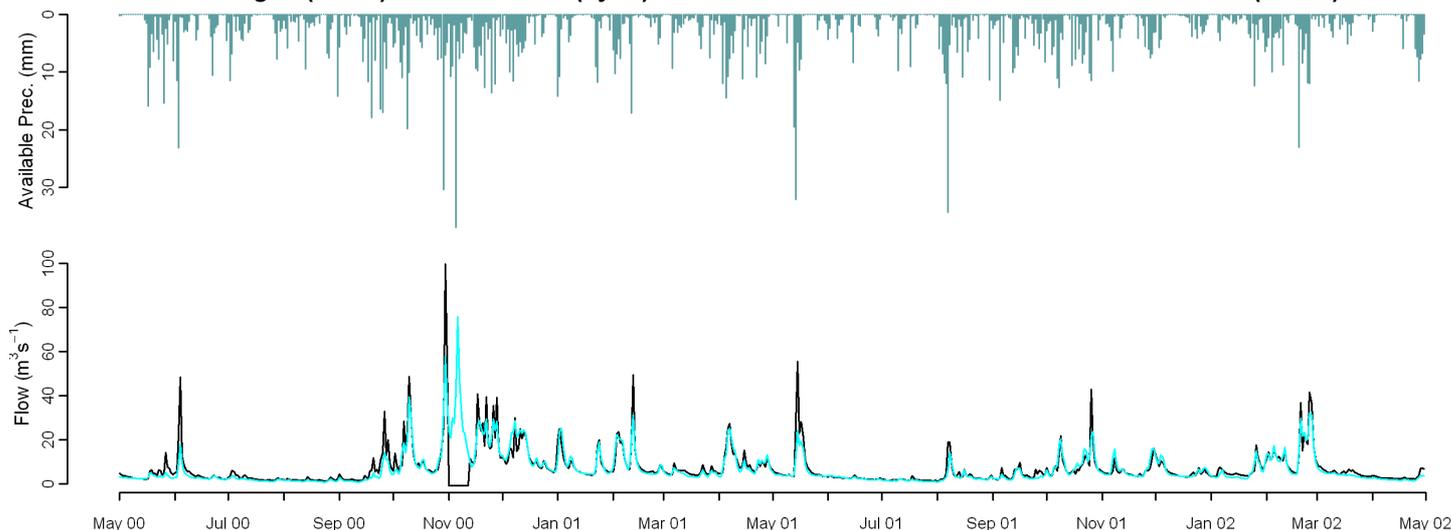
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-1.0	13.1	10.7	-3.7	-9.4	-21.1	-28.9	-24.9	-24.6	-21.7	-4.1	11.8	12.8	0.81
Performance Band	1	2	1	1	2	2	2	2	3	2	2	1	2	1
MORECS (1962-1991)	6.4	23.1	22.6	2.3	-3.1	-18.0	-23.1	-25.0	-27.9	-21.4	3.3	16.0	21.3	0.71
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-18.7	-10.7	-5.9	-5.4	11.1									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	-8.0	0.1	-0.2	-1.7	15.5									

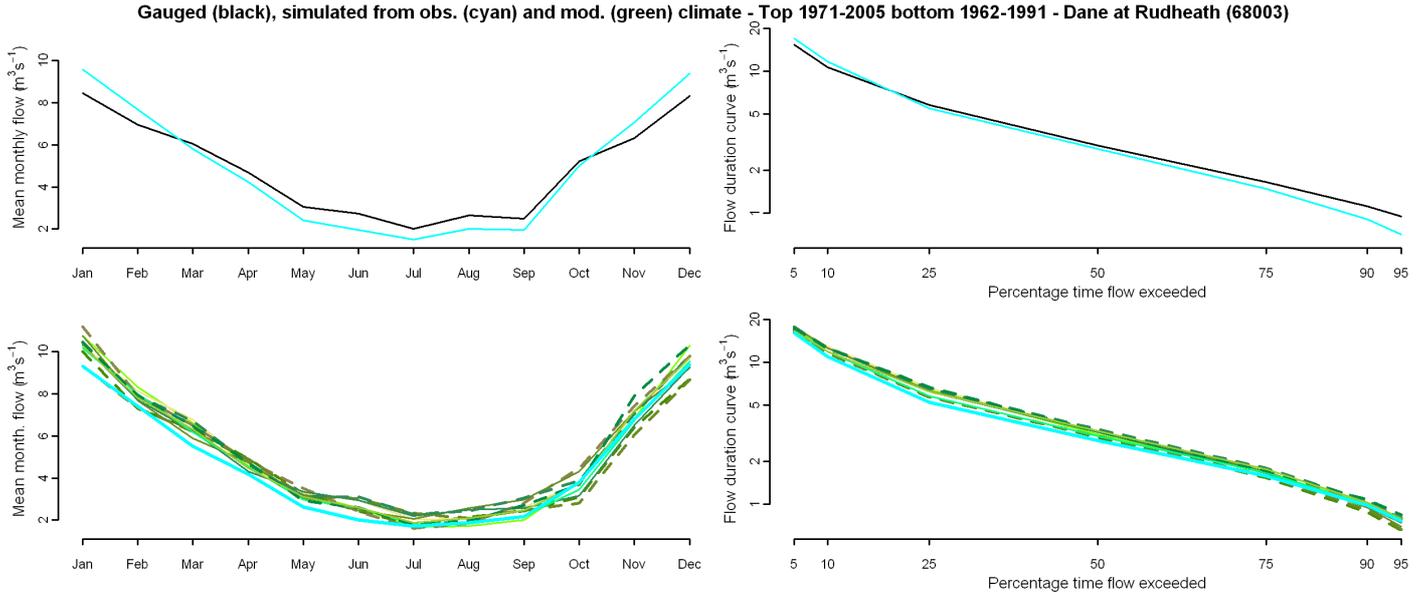
Gauged (black) and simulated (cyan) flows from observed climate - Dane at Rudheath (68003)



Gauged (black) and simulated (cyan) flows from observed climate - Dane at Rudheath (68003)



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	12	6	14	16	12	5	8	14	7	11	9
January	18	5	13	19	16	3	9	15	10	8	11
April	12	12	17	24	11	18	4	14	8	13	10
July	-1	19	27	-2	18	39	28	33	5	3	8
October	3	-15	0	25	8	-24	-9	7	-13	-2	-1
Q90	4	-11	-1	6	-7	-7	-4	8	1	6	6
Q75	4	-2	7	7	4	-1	5	16	5	6	11
Q50	12	7	16	17	15	8	15	22	7	15	16
Q25	24	10	27	29	19	10	20	28	12	27	18
Q5	8	6	10	11	9	4	2	13	6	5	3
RP2	1	2	-5	19	4	5	4	5	-1	5	0
RP10	-7	8	-11	12	5	11	0	7	12	-3	9

Climate change graphs for 2050s

