

## General Information

River Name	Wharfe	Catchment Area (km <sup>2</sup> )	427
Station Name	Addingham	SAAR (mm) 61-90	1386
Station Number	27043	Mean Annual Rain (mm) 62-91	1399
Grid Reference	SE092494	Mean Annual PE (mm) 62-91	536
EA Region	EA-NE	Observed flow record	1973 to 2005



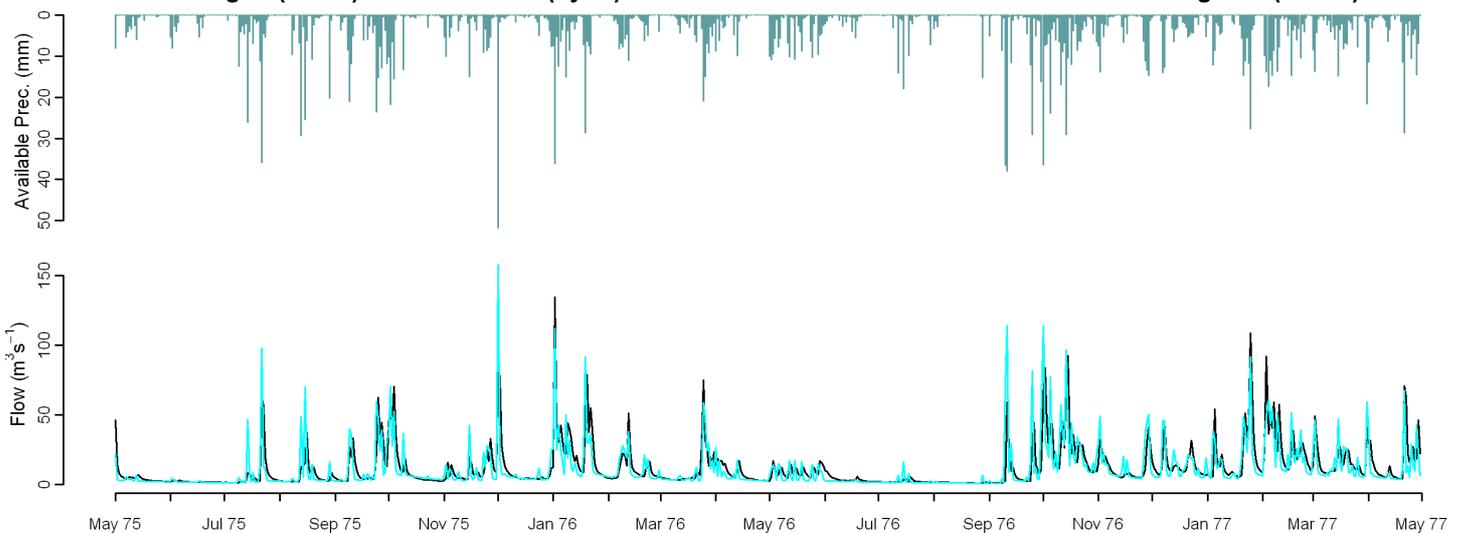
## Observed Data

## Comparison of gauged and simulated flow

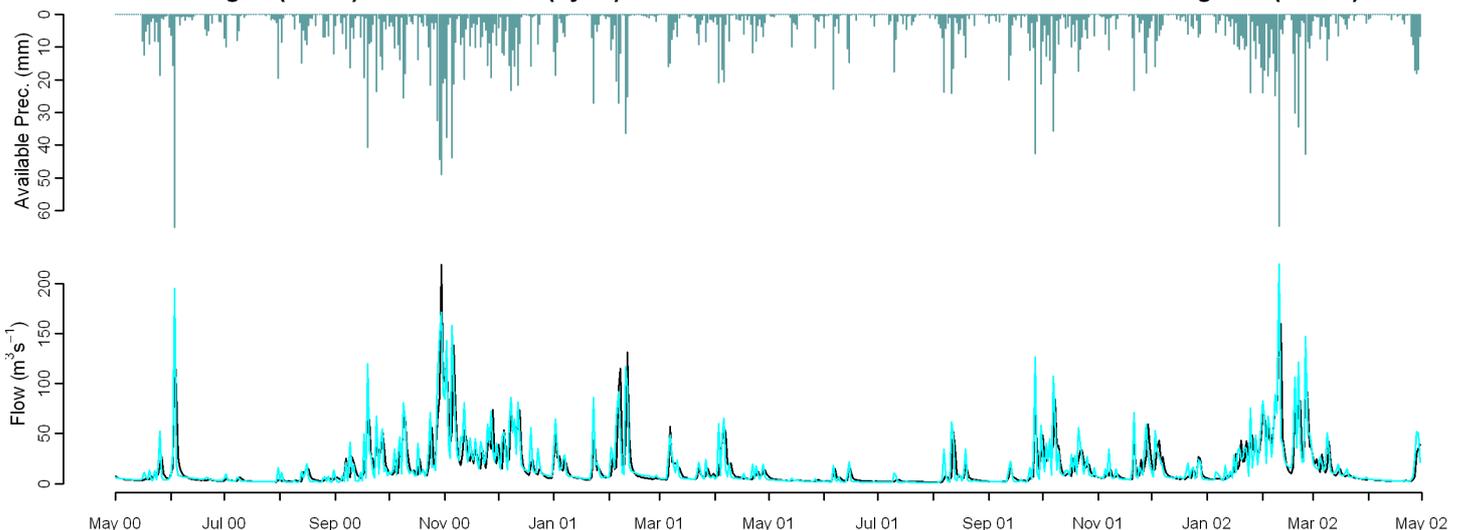
## Model used: PDM

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-2.8	-2.9	1.3	-5.0	-5.9	-14.9	-8.3	-9.6	-4.9	-2.2	-1.3	-0.8	-0.8	0.55
Performance Band	1	1	1	1	1	2	1	1	1	1	1	1	1	2
FAO (1962-1991)	-2.8	-4.4	-1.2	-4.4	-5.5	-11.0	-6.3	-7.4	-5.2	-0.4	0.2	-1.4	-1.6	0.54
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-17.6	-14.0	-12.8	-8.5	2.6	-0.8	-9.1	-15.1	-20.8					
Performance Band	1	1	2	1	1									
FAO (1962-1991)	-11.3	-10.1	-15.2	-7.2	0.8	1.4	-9.5	-18.3	-26.1					

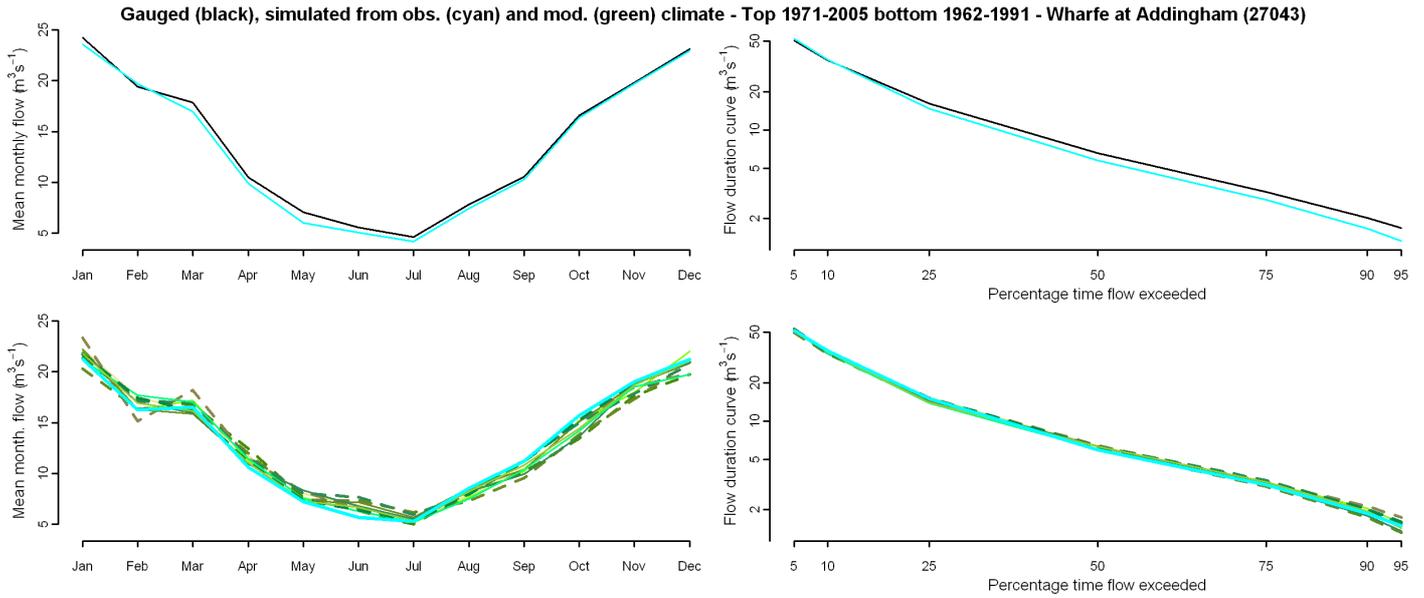
Gauged (black) and simulated (cyan) flows from observed climate - Wharfe at Addingham (27043)



Gauged (black) and simulated (cyan) flows from observed climate - Wharfe at Addingham (27043)



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	-2	1	3	0	-2	-1	3	-1	1	-1
January	5	0	7	11	7	1	2	6	0	2	3
April	7	10	14	10	3	9	2	10	6	7	3
July	-2	2	0	-2	7	9	0	4	-4	-6	-1
October	-4	-13	-11	0	-5	-12	-9	-6	-11	-4	-1
Q90	11	-6	4	16	4	-6	-5	7	3	7	5
Q75	5	0	3	6	0	-5	-2	7	0	5	5
Q50	7	2	8	11	5	2	6	6	2	6	5
Q25	-3	-6	3	3	-3	-4	-2	-2	-7	2	-7
Q5	2	0	2	1	0	-3	0	4	-1	1	-1
RP2	-1	2	1	1	1	7	-2	3	6	-2	-2
RP10	12	25	12	6	7	16	11	11	16	5	11

Climate change graphs for 2050s

