

## General Information

River Name	Ribble	Catchment Area (km <sup>2</sup> )	1145
Station Name	Samlesbury	SAAR (mm) 61-90	1352
Station Number	71001	Mean Annual Rain (mm) 62-91	1354
Grid Reference	SD587314	Mean Annual PE (mm) 62-91	558
EA Region	EA-NW	Observed flow record	1961 to 2005



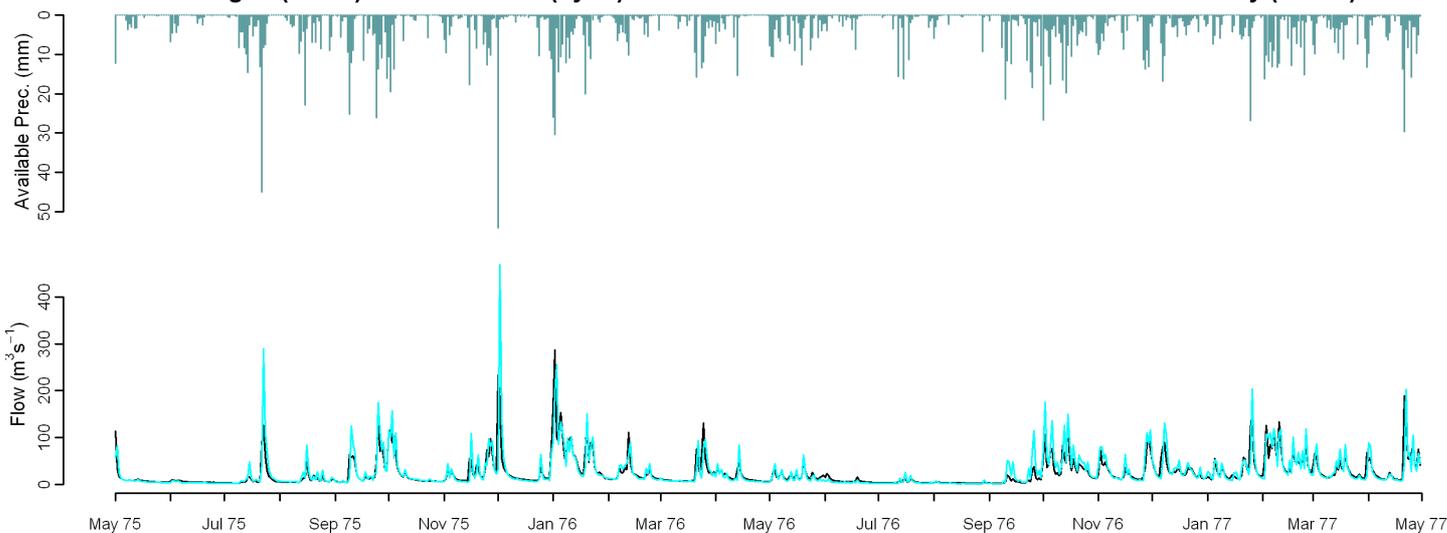
## Observed Data

## Comparison of gauged and simulated flow

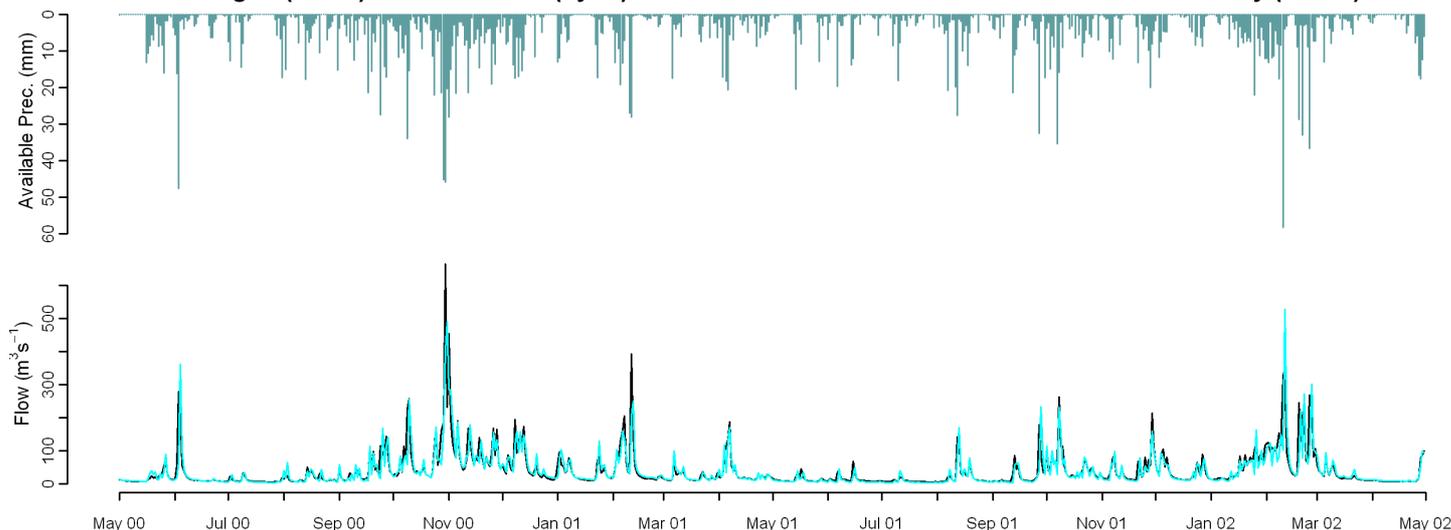
## Model used: CLASSIC

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	0.2	-2.0	4.8	2.0	0.0	-7.1	-5.4	-5.1	-0.8	4.1	2.7	1.5	-0.1	0.65
Performance Band	1	1	1	1	1	1	1	1	1	1	1	1	1	1
FAO (1962-1991)	4.2	2.1	5.8	4.8	3.1	-3.0	4.4	1.2	2.2	9.7	7.3	6.2	1.7	0.63
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-20.7	-8.3	-3.3	1.9	1.1	2.2	1.7	-2.0	-7.1					
Performance Band	1	1	1	1	1									
FAO (1962-1991)	-9.9	-1.6	-0.3	7.5	3.5	2.3	0.7	-3.0	-8.1					

Gauged (black) and simulated (cyan) flows from observed climate - Ribble at Samlesbury (71001)

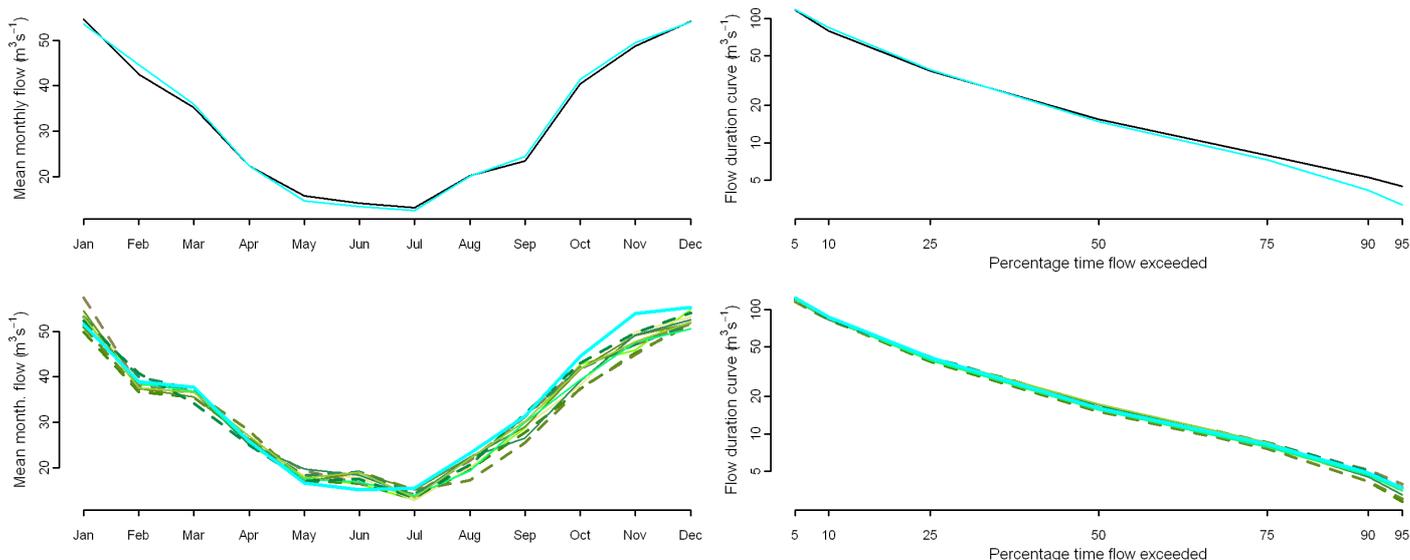


Gauged (black) and simulated (cyan) flows from observed climate - Ribble at Samlesbury (71001)



## 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 - Ribble at Samlesbury (71001)



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

## Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Ribble at Samlesbury (71001)

