

## General Information

River Name	Rothay	Catchment Area (km <sup>2</sup> )	64
Station Name	Miller Bridge House	SAAR (mm) 61-90	2401
Station Number	73013	Mean Annual Rain (mm) 62-91	2465
Grid Reference	NY371042	Mean Annual PE (mm) 62-91	487
EA Region	EA-NW	Observed flow record	1976 to 2005



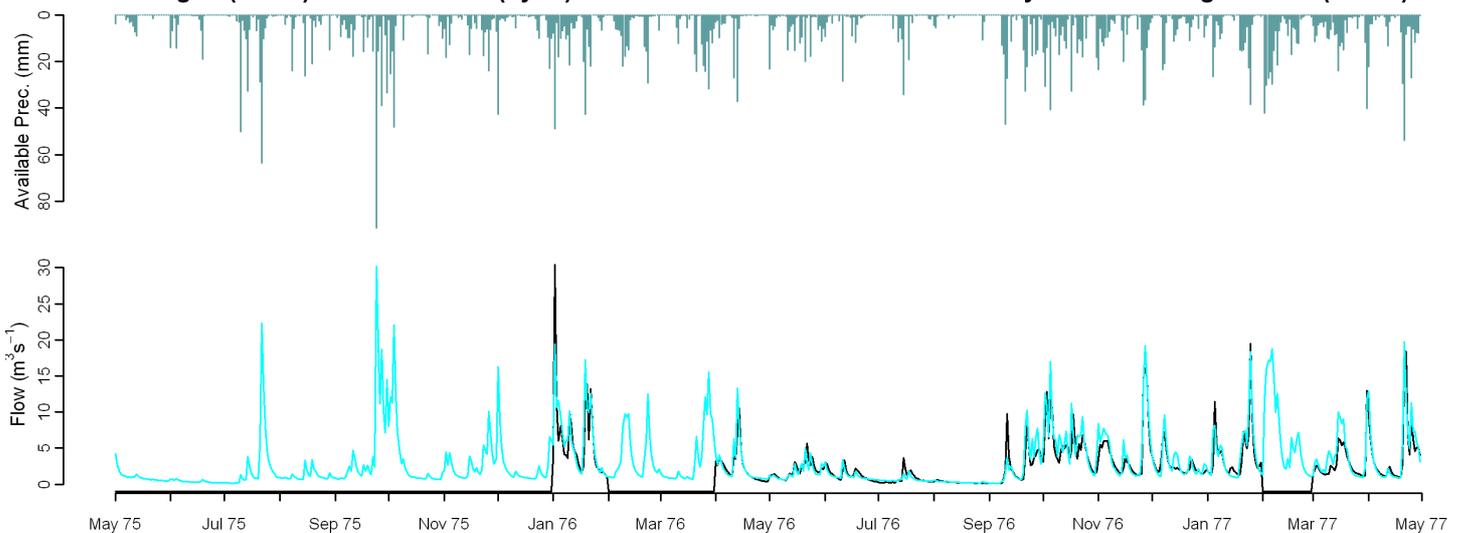
## Observed Data

## Comparison of gauged and simulated flow

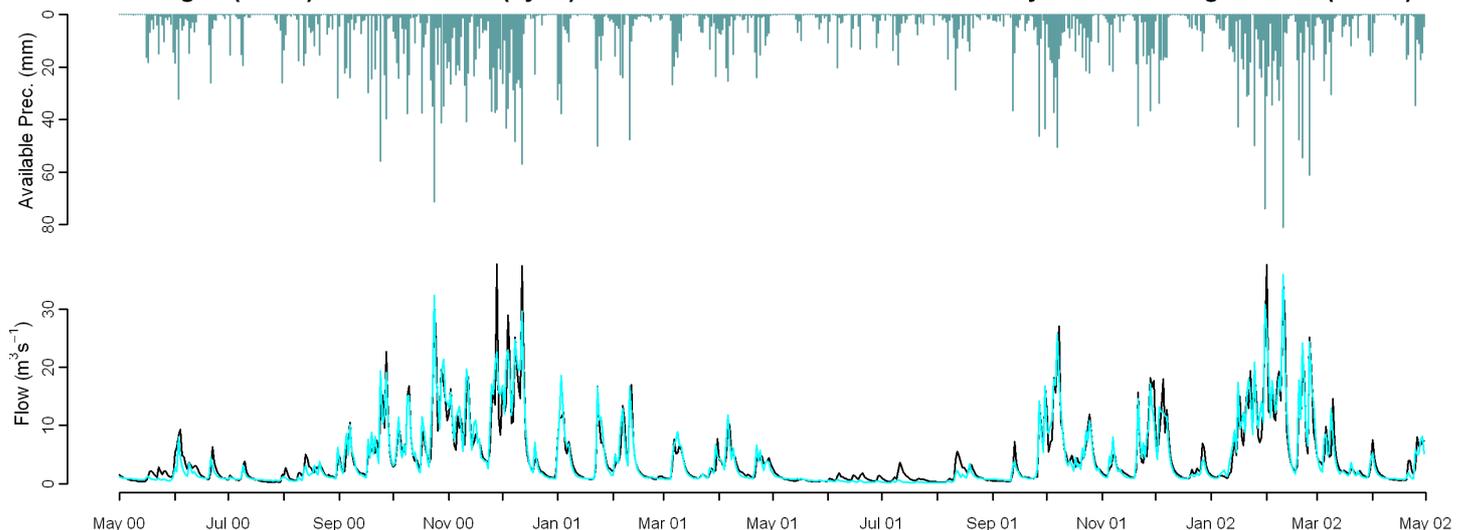
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-3.1	0.7	2.2	-0.2	-6.8	-14.4	-26.6	-22.5	-9.8	-3.3	1.7	0.9	0.7	0.82
Performance Band	1	2	1	2	1	2	3	2	1	1	1	1	1	1
MORECS (1962-1991)	-5.3	-1.9	-3.9	-1.2	-5.9	-15.4	-28.3	-20.1	-9.6	-2.9	0.4	-0.2	-2.4	0.80
	Q90	Q75	Q50	Q25	Q5			RP2	RP5	RP10	RP20			
MORECS (1971-2005)	1.7	-10.1	-21.3	5.8	5.9									
Performance Band	1	1	2	1	1									
MORECS (1962-1991)	-7.3	-16.2	-20.5	9.9	1.3									

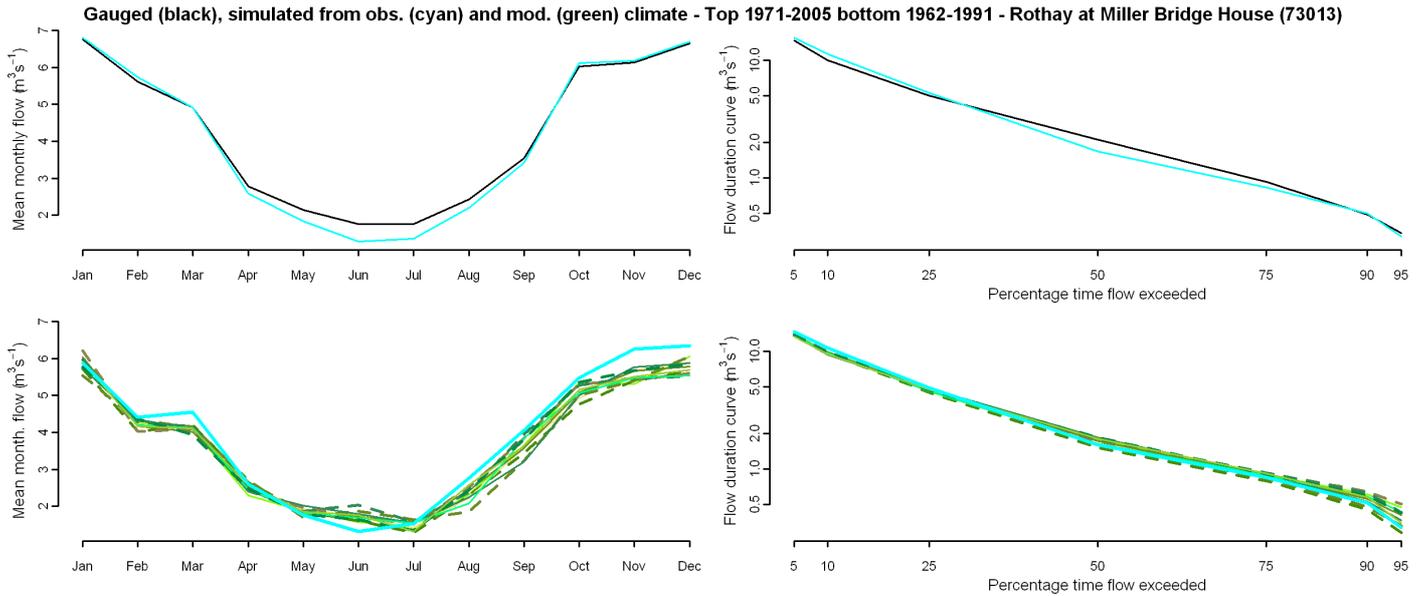
Gauged (black) and simulated (cyan) flows from observed climate - Rothay at Miller Bridge House (73013)



Gauged (black) and simulated (cyan) flows from observed climate - Rothay at Miller Bridge House (73013)



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	-5	-7	-4	-1	-4	-5	-6	-2	-5	-4	-4
January	1	-1	3	3	3	0	-5	3	0	-6	6
April	-11	-3	-4	-1	-4	2	-6	-5	-10	-4	-5
July	-8	-10	-2	6	2	3	-3	3	-3	-16	-15
October	-1	-4	-12	1	-6	-7	2	-5	-6	-1	-4
Q90	18	-11	2	27	5	-7	-1	20	13	12	13
Q75	6	-5	2	10	1	-3	3	9	4	5	7
Q50	10	-4	6	11	7	1	14	14	4	12	12
Q25	-5	-8	-3	-3	-5	-4	-2	-1	-7	-6	-3
Q5	-11	-6	-8	-5	-7	-8	-9	-5	-7	-8	-10
RP2	-8	-7	-9	-9	-8	-9	-12	-10	-5	-5	-10
RP10	-14	-16	-15	-18	-11	-18	-18	-18	-16	-13	-16

Climate change graphs for 2050s

