

## General Information

River Name	Roding	Catchment Area (km <sup>2</sup> )	303
Station Name	Redbridge	SAAR (mm) 61-90	607
Station Number	37001	Mean Annual Rain (mm) 62-91	610
Grid Reference	TQ415884	Mean Annual PE (mm) 62-91	580
EA Region	EA-SE	Observed flow record	1961 to 2005



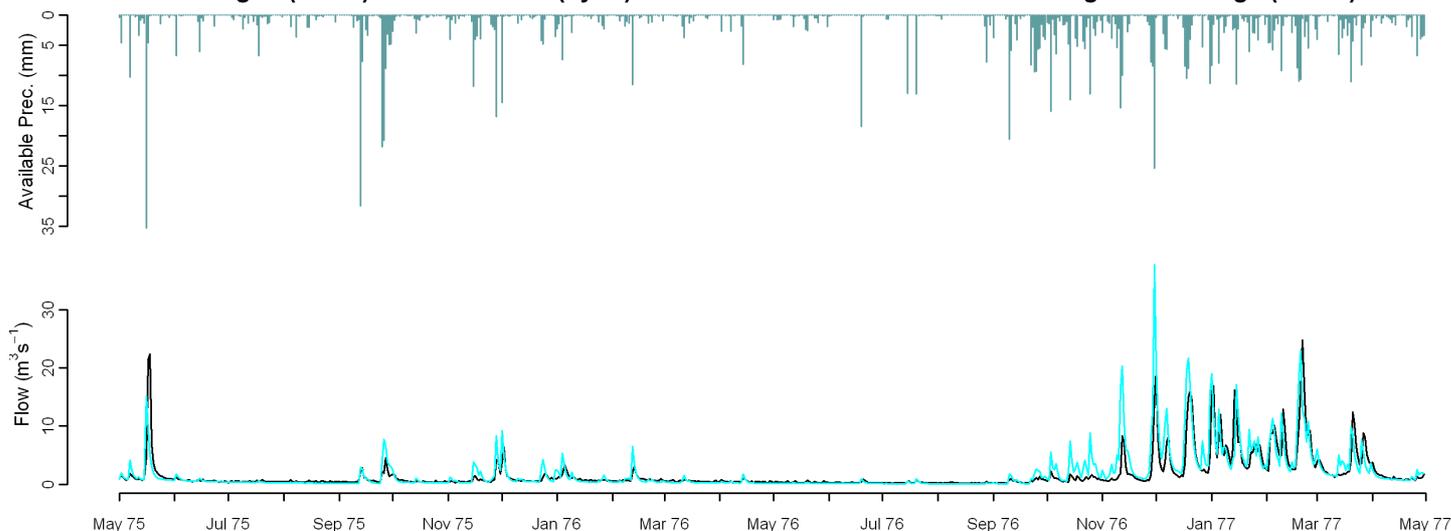
## Observed Data

## Comparison of gauged and simulated flow

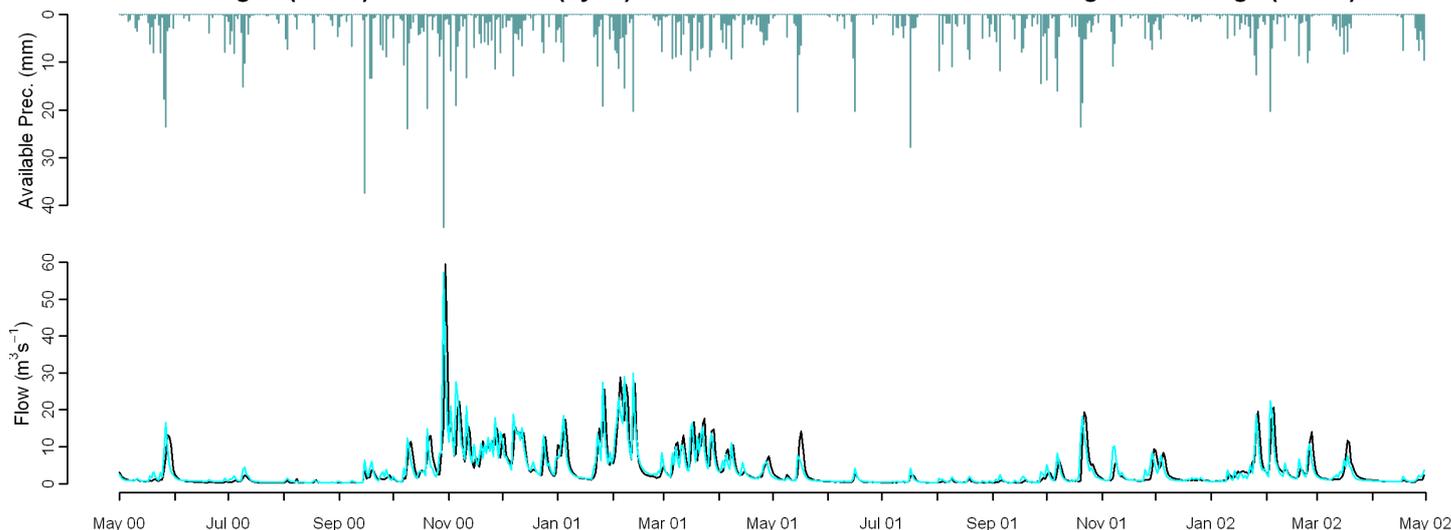
## Model used: PDM

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-0.1	-4.8	-0.8	-11.0	-17.2	-11.6	4.3	8.6	11.6	22.0	6.6	16.5	5.1	0.63
Performance Band	1	1	1	2	2	2	1	1	2	2	1	2	1	2
FAO (1962-1991)	-6.4	-3.6	-6.6	-17.8	-23.8	-15.9	-6.9	-5.2	-3.6	1.5	0.9	13.3	4.2	0.60
	Q90	Q75	Q50	Q25	Q5			RP2	RP5	RP10	RP20			
MORECS (1971-2005)	-18.5	-13.3	0.3	9.7	-5.3			2.0	7.5	9.8	11.1			
Performance Band	1	1	1	1	1									
FAO (1962-1991)	-33.6	-23.2	-11.7	-0.3	-6.0			-2.6	7.7	12.4	15.6			

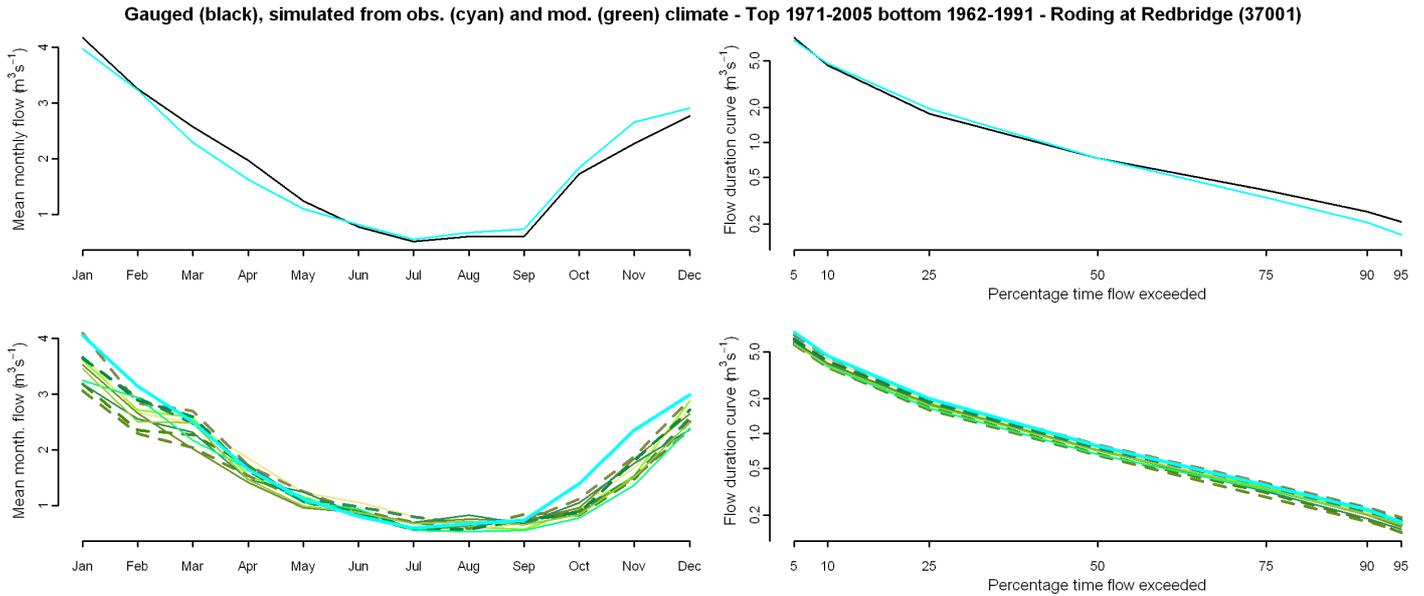
Gauged (black) and simulated (cyan) flows from observed climate - Roding at Redbridge (37001)



Gauged (black) and simulated (cyan) flows from observed climate - Roding at Redbridge (37001)



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	-11	-19	-7	-2	-15	-21	-15	-10	-17	-10	-16
January	-12	-23	-5	2	-11	-23	-24	-6	-18	-9	-14
April	-7	-6	13	3	-16	-12	-12	1	2	-2	-9
July	-2	-5	35	-2	5	16	16	29	-4	-4	11
October	-33	-40	-30	-17	-37	-38	-24	-44	-43	-37	-16
Q90	-3	-19	-11	4	-12	-23	-16	-8	-9	0	-10
Q75	-3	-15	-8	4	-11	-23	-13	-3	-9	0	-9
Q50	-7	-15	-2	3	-11	-20	-9	-5	-15	-3	-11
Q25	-9	-17	-4	1	-13	-22	-12	-7	-16	-6	-13
Q5	-16	-22	-11	-6	-18	-25	-19	-11	-21	-15	-22
RP2	-19	-14	-15	-3	-16	-16	-21	-16	-15	-13	-15
RP10	-24	-13	-10	-21	-13	-11	-20	-22	-19	-20	-20

Climate change graphs for 2050s

