

General Information

River Name	Exe	Catchment Area (km ²)	601
Station Name	Thorverton	SAAR (mm) 61-90	1250
Station Number	45001	Mean Annual Rain (mm) 62-91	1271
Grid Reference	SS936016	Mean Annual PE (mm) 62-91	573
EA Region	EA-SW	Observed flow record	1962 to 2005



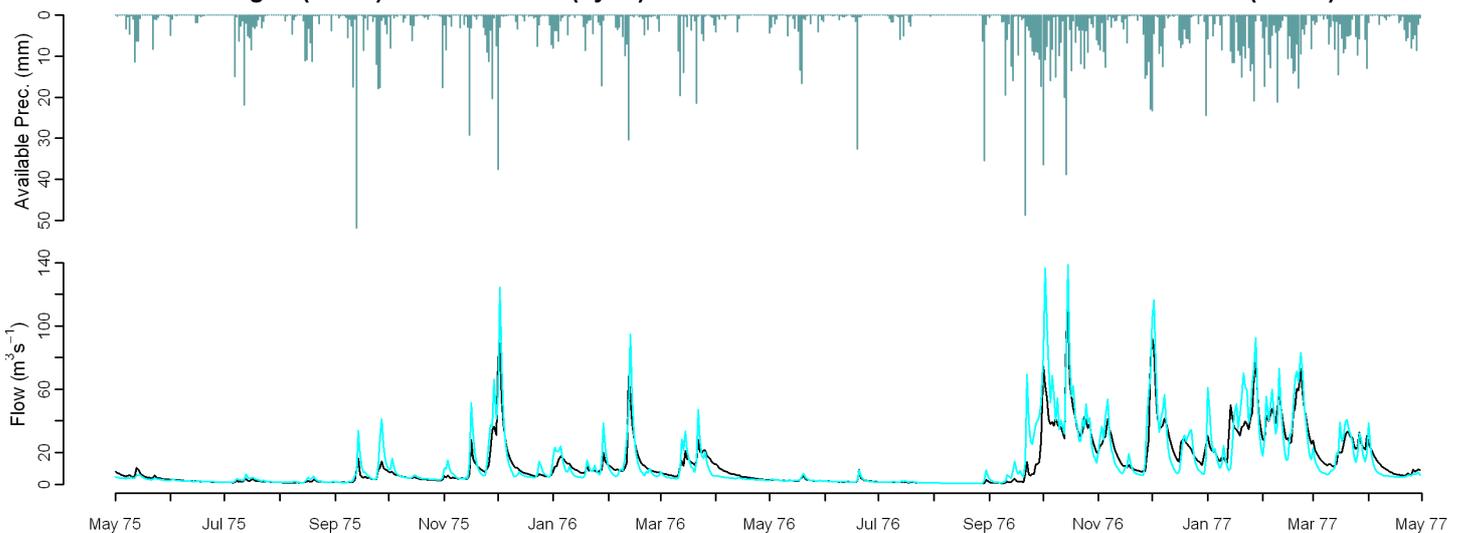
Observed Data

Comparison of gauged and simulated flow

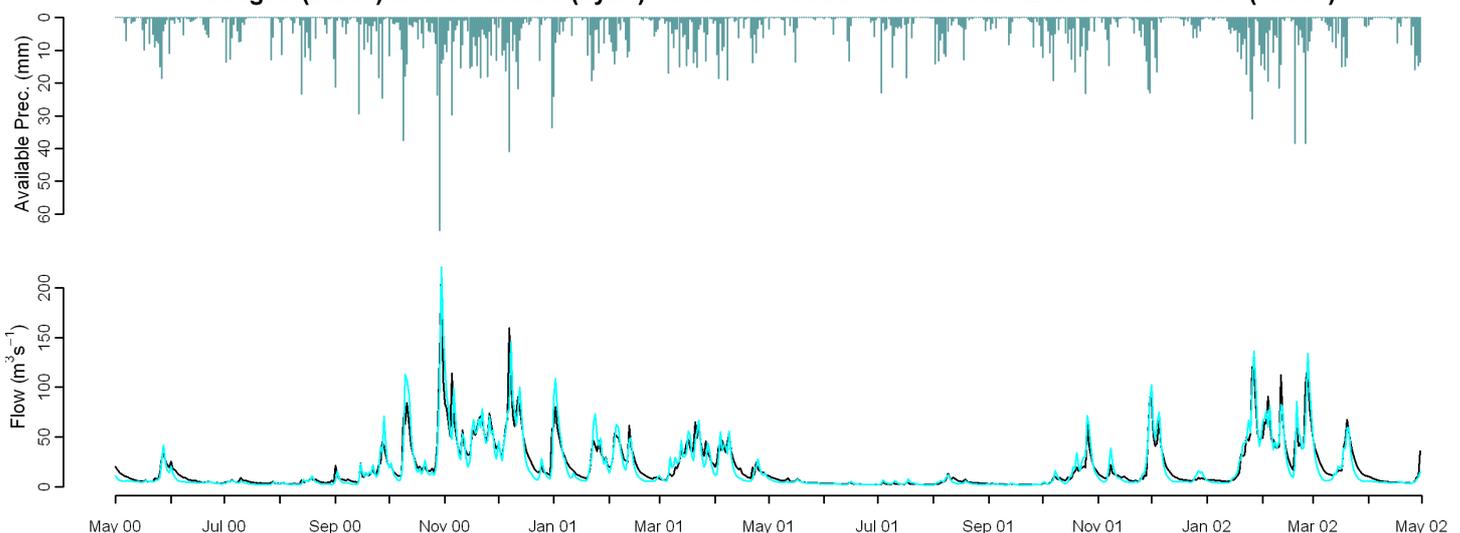
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-2.5	-1.7	-3.9	-9.8	-17.3	-24.1	-20.2	-14.8	-4.3	11.7	10.8	6.3	2.7	0.83
Performance Band	1	1	1	1	2	2	2	2	1	2	1	1	1	1
MORECS (1962-1991)	-1.9	0.2	-4.8	-6.3	-20.2	-22.9	-17.2	-10.7	-6.7	11.7	10.5	8.1	3.2	0.81
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-15.7	-17.0	-31.4	-9.4	16.5									
Performance Band	1	1	1	2	1									
MORECS (1962-1991)	-10.0	-18.3	-33.8	-9.5	20.2									

Gauged (black) and simulated (cyan) flows from observed climate - Exe at Thorverton (45001)

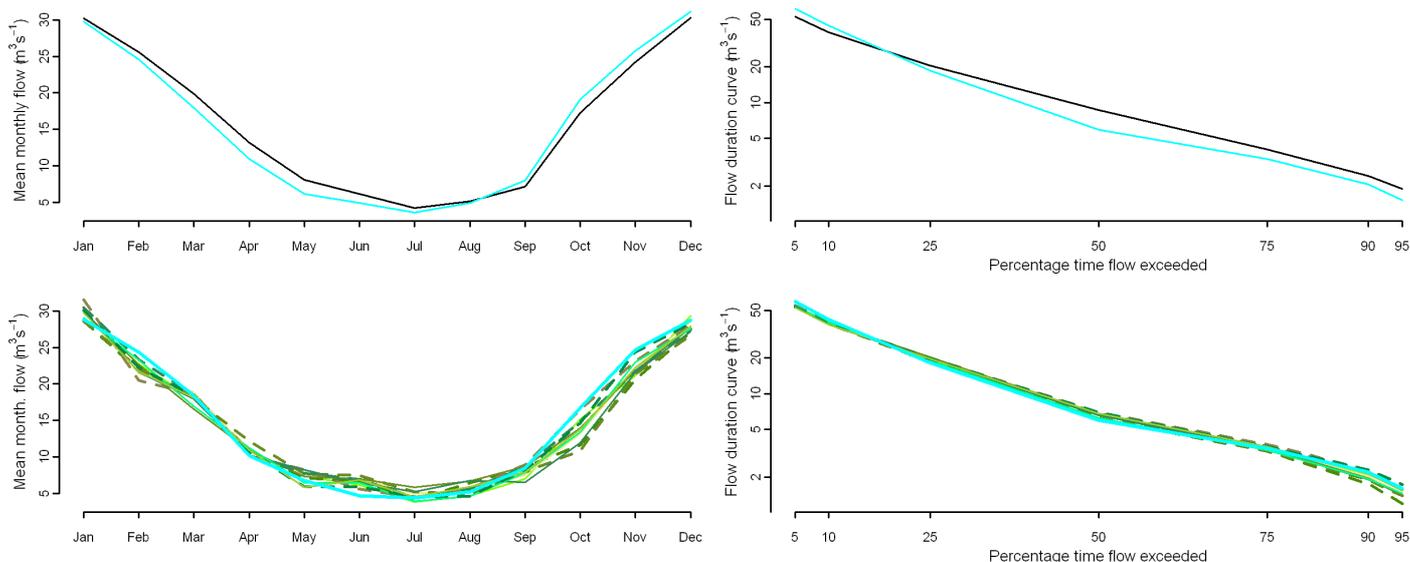


Gauged (black) and simulated (cyan) flows from observed climate - Exe at Thorverton (45001)



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 - Exe at Thorverton (45001)



Percentage difference between flow simulated from observed climate and Future Flows Climate

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-1	-4	-2	1	-1	-3	-4	1	-5	-3	-2
January	4	-1	9	8	6	1	3	9	1	1	5
April	7	3	10	5	9	20	4	3	9	3	12
July	-9	2	13	3	26	23	22	9	-7	0	2
October	-10	-25	-22	3	-21	-32	-25	-13	-19	-14	-17
Q90	-3	-21	-11	4	-15	-15	-12	1	-14	0	-4
Q75	3	-6	0	9	-3	-6	-1	6	-5	1	2
Q50	16	4	10	18	10	6	12	16	4	15	13
Q25	7	1	8	11	9	4	7	13	3	6	7
Q5	-12	-8	-8	-7	-9	-10	-11	-8	-10	-12	-10
RP2	1	-5	-3	-2	-2	1	3	-3	1	-1	-1
RP10	3	0	-2	7	4	14	8	4	4	11	10

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Exe at Thorverton (45001)

