

General Information

River Name	Axe	Catchment Area (km ²)	289
Station Name	Whitford	SAAR (mm) 61-90	994
Station Number	45004	Mean Annual Rain (mm) 62-91	997
Grid Reference	SY262953	Mean Annual PE (mm) 62-91	570
EA Region	EA-SW	Observed flow record	1964 to 2005



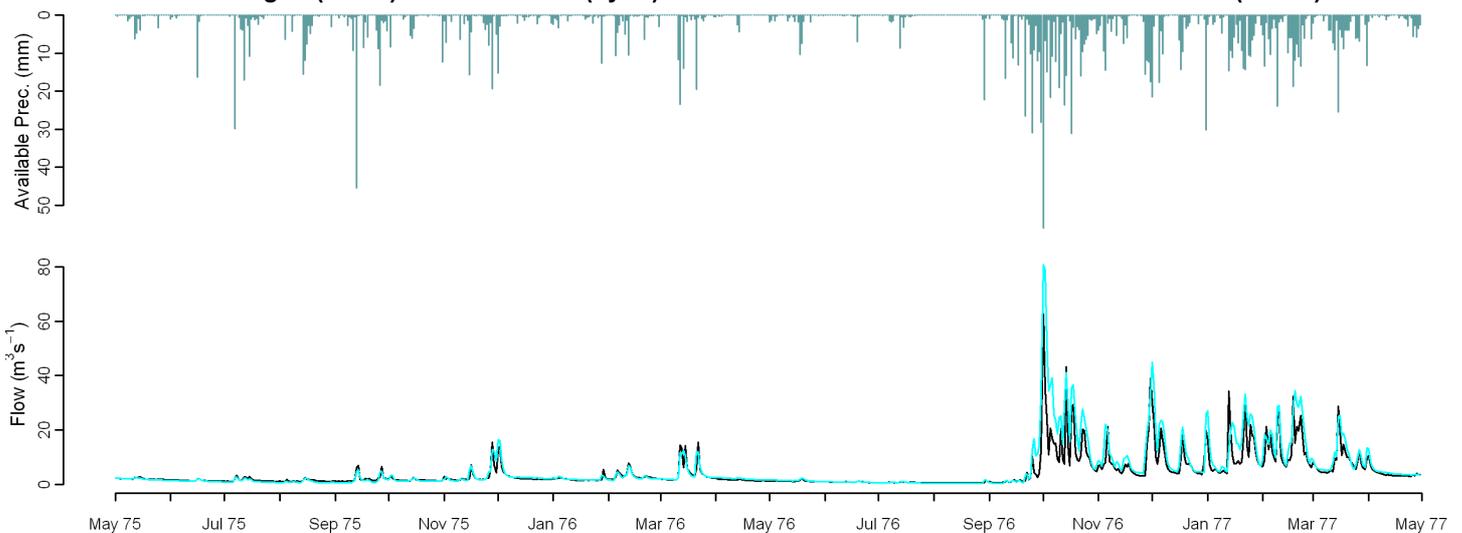
Observed Data

Comparison of gauged and simulated flow

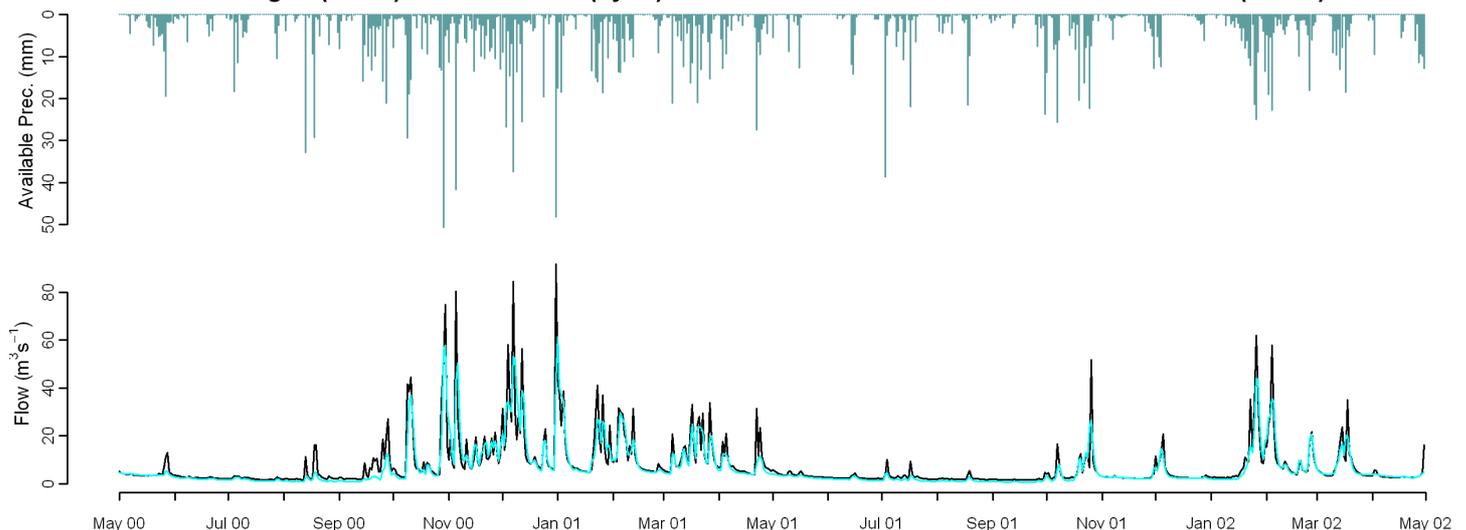
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-1.1	10.6	10.0	-0.8	-12.7	-19.4	-22.7	-25.9	-29.9	-23.5	-3.1	5.8	9.9	0.77
Performance Band	1	2	2	1	2	2	2	2	2	2	1	1	1	1
MORECS (1962-1991)	4.3	18.3	15.1	4.2	-6.9	-19.0	-16.4	-20.8	-24.4	-21.5	5.3	6.9	16.6	0.74
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-37.0	-21.9	-4.2	-6.8	12.8									
Performance Band	1	1	2	2	1									
MORECS (1962-1991)	-36.6	-18.8	-4.0	-5.5	25.4									

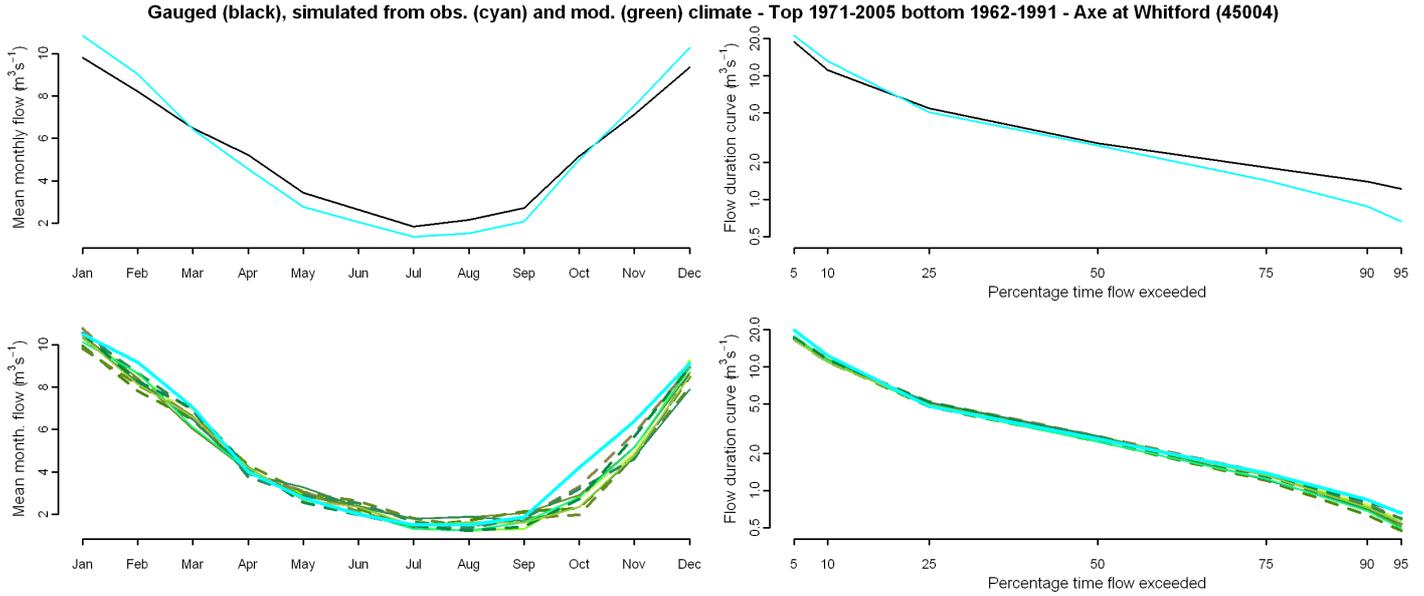
Gauged (black) and simulated (cyan) flows from observed climate - Axe at Whitford (45004)



Gauged (black) and simulated (cyan) flows from observed climate - Axe at Whitford (45004)



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	-8	-5	-3	-6	-8	-9	-4	-10	-8	-8
January	0	-6	2	3	-1	-5	-1	3	-4	2	1
April	2	-5	7	4	3	9	1	-2	4	5	7
July	-3	-1	17	-3	14	25	22	13	-8	-5	-2
October	-32	-43	-36	-17	-37	-52	-42	-27	-33	-36	-43
Q90	-12	-25	-9	-4	-23	-16	-15	-11	-20	-7	-14
Q75	-4	-13	-1	2	-9	-13	-11	-4	-11	-8	-6
Q50	5	-4	2	9	1	-2	5	5	-6	-2	-1
Q25	7	-1	7	11	4	2	7	8	-1	5	2
Q5	-15	-16	-14	-12	-13	-16	-17	-12	-12	-15	-16
RP2	-12	-1	-8	-1	-11	-6	-12	-1	-13	-6	-4
RP10	-12	5	-14	-10	-17	-3	-10	-4	-15	-7	-13

Climate change graphs for 2050s

