

## General Information

River Name	Cockhaise Brook	Catchment Area (km2)	36
Station Name	Holywell	SAAR (mm) 61-90	852
Station Number	41026	Mean Annual Rain (mm) 62-91	853
Grid Reference	TQ376262	Mean Annual PE (mm) 62-91	531
EA Region	EA-SE	Observed flow record	1971 to 2005



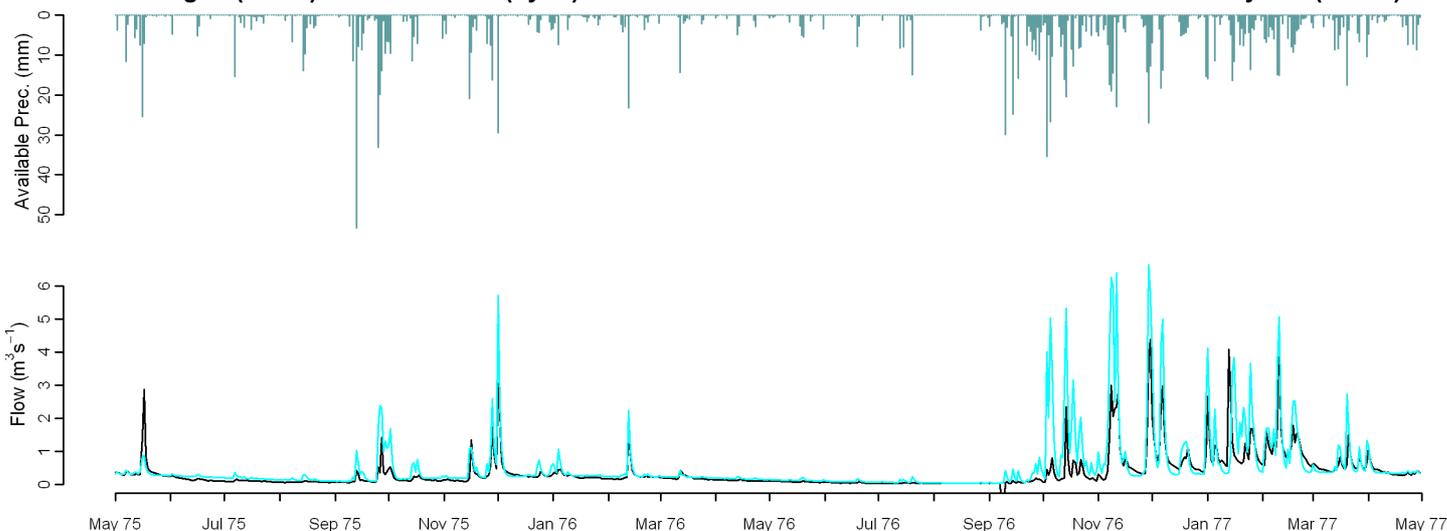
## Observed Data

## Comparison of gauged and simulated flow

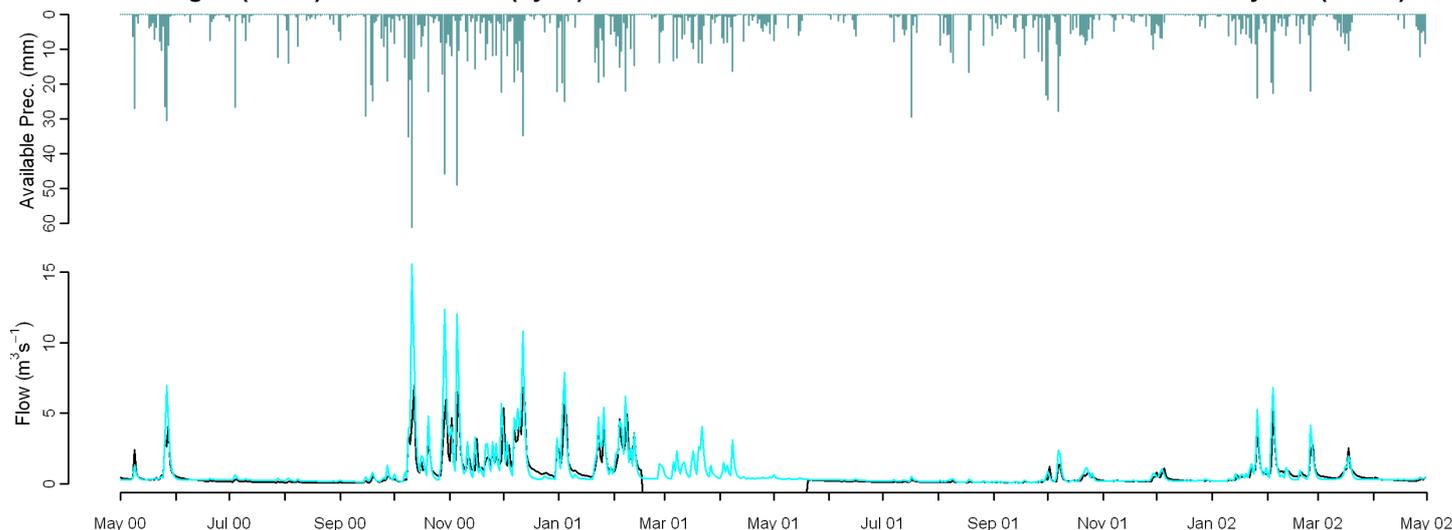
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	18.2	17.0	3.8	-1.7	-12.2	-0.8	24.7	49.4	47.2	59.0	59.0	34.8	25.4	0.40
Performance Band	2	2	1	1	2	1	2	3	3	3	3	2	2	2
MORECS (1962-1991)	19.5	23.7	5.9	1.1	-12.4	-1.2	24.2	51.0	44.9	64.4	67.7	35.3	29.3	0.28
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	52.8	62.9	19.3	-20.2	31.3									
Performance Band	1	1	1	2	3									
MORECS (1962-1991)	53.2	66.5	21.1	-21.1	32.8									

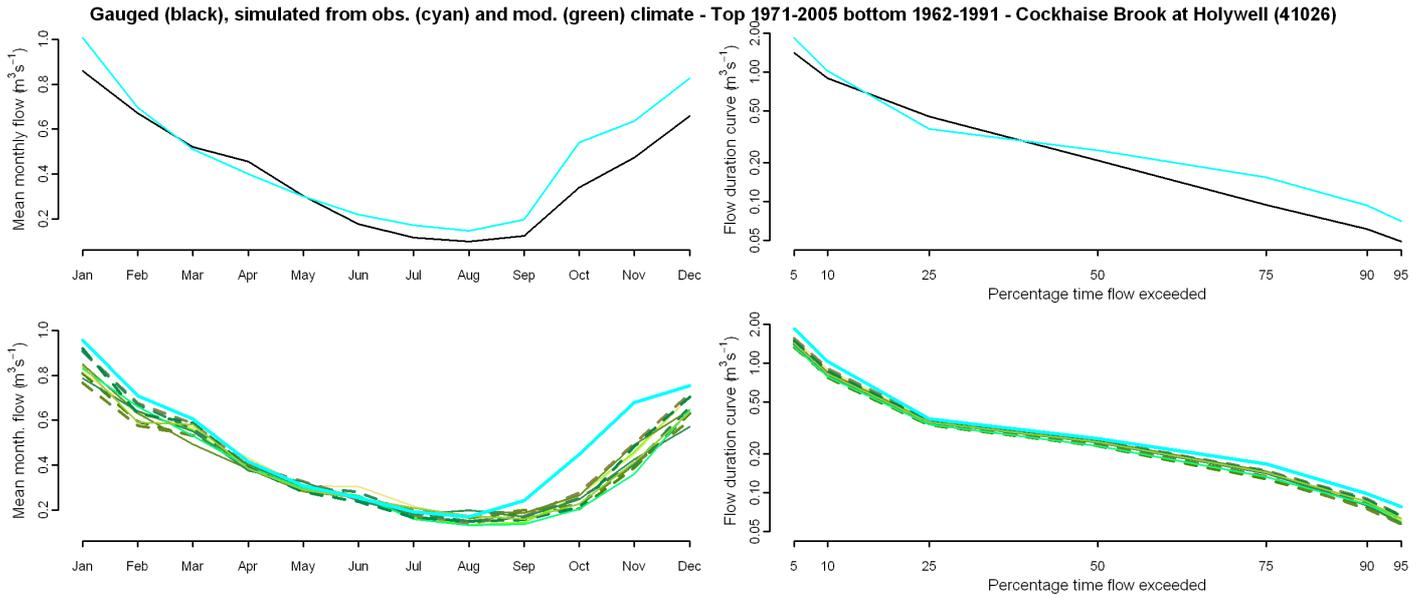
Gauged (black) and simulated (cyan) flows from observed climate - Cockhaise Brook at Holywell (41026)



Gauged (black) and simulated (cyan) flows from observed climate - Cockhaise Brook at Holywell (41026)



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
<b>Annual</b>	-13	-17	-13	-10	-15	-19	-17	-12	-19	-13	-15
<b>January</b>	-11	-19	-11	-6	-10	-19	-20	-3	-13	2	-11
<b>April</b>	-7	-5	8	0	-7	-5	-5	-2	-3	-6	-3
<b>July</b>	-11	-12	17	-6	-7	6	-4	-2	-13	-12	9
<b>October</b>	-39	-53	-41	-33	-48	-50	-44	-44	-51	-52	-49
<b>Q90</b>	-17	-22	-16	-7	-22	-24	-18	-14	-19	-11	-14
<b>Q75</b>	-15	-24	-16	-10	-15	-21	-16	-13	-22	-14	-16
<b>Q50</b>	-7	-13	-4	-2	-6	-11	-7	-4	-11	-7	-7
<b>Q25</b>	-2	-11	-1	1	-6	-8	-7	-2	-9	-3	-7
<b>Q5</b>	-22	-24	-17	-15	-23	-29	-24	-16	-26	-18	-23
<b>RP2</b>	-17	-2	-12	-4	-9	-12	-11	-3	-10	6	-9
<b>RP10</b>	-22	-4	-11	-8	-15	-1	-19	-15	-20	-6	-6

Climate change graphs for 2050s

