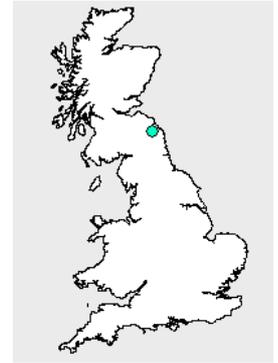


## General Information

River Name	Glen	Catchment Area (km2)	199
Station Name	Kirknewton	SAAR (mm) 61-90	879
Station Number	21032	Mean Annual Rain (mm) 62-91	913
Grid Reference	NT919310	Mean Annual PE (mm) 62-91	520
EA Region	EA-NE	Observed flow record	1966 to 2005



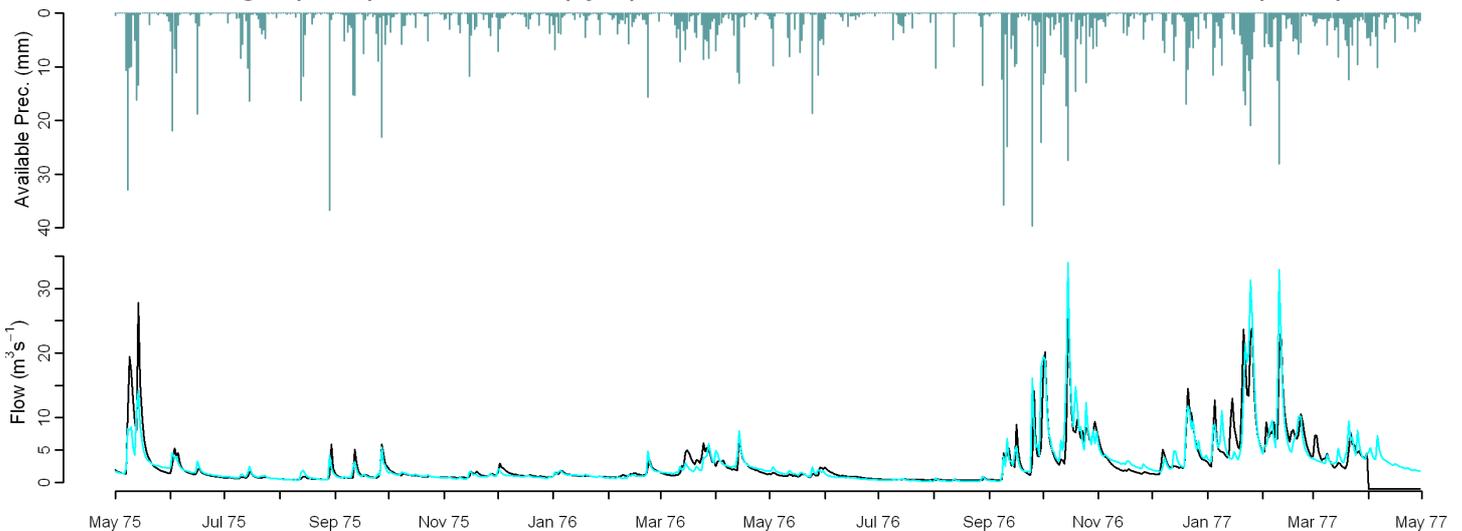
## Observed Data

## Comparison of gauged and simulated flow

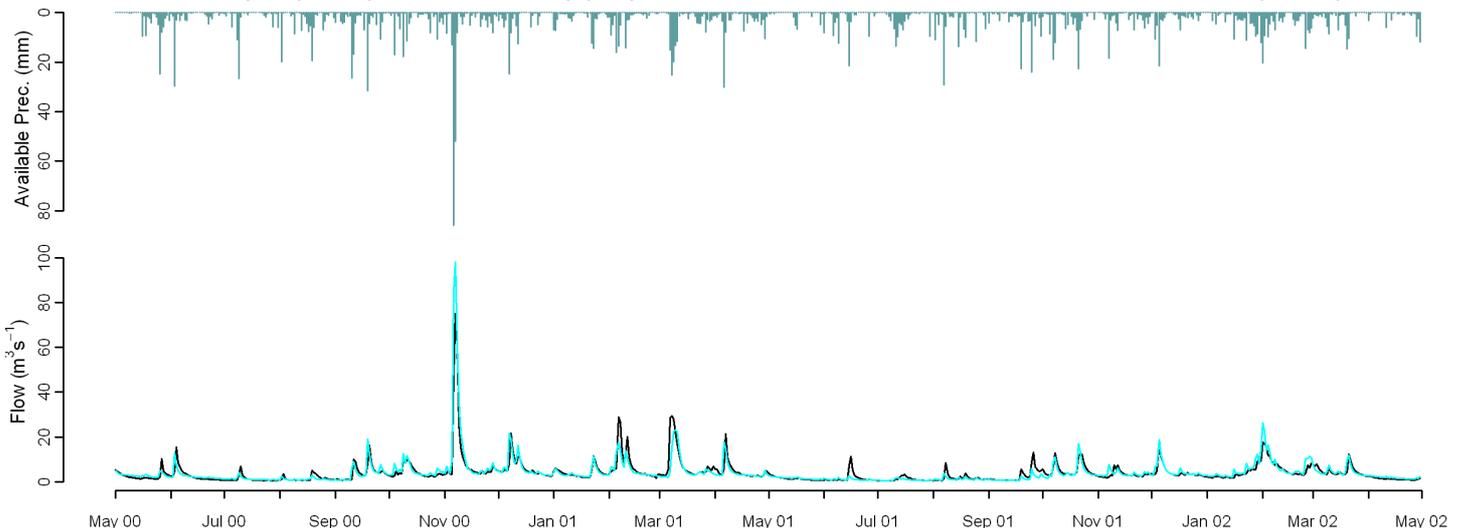
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	3.0	5.1	5.2	-4.7	-0.3	-5.8	-8.9	-1.5	3.0	6.4	9.3	11.2	9.3	0.71
Performance Band	1	1	1	1	1	1	1	2	2	2	2	1	1	1
MORECS (1962-1991)	-1.5	2.5	2.2	-3.9	-0.3	-7.4	-2.7	-9.2	-6.3	4.1	1.0	4.1	6.8	0.69
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	11.0	17.1	19.4	-0.3	8.3									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	-2.5	13.4	25.9	2.9	3.6									

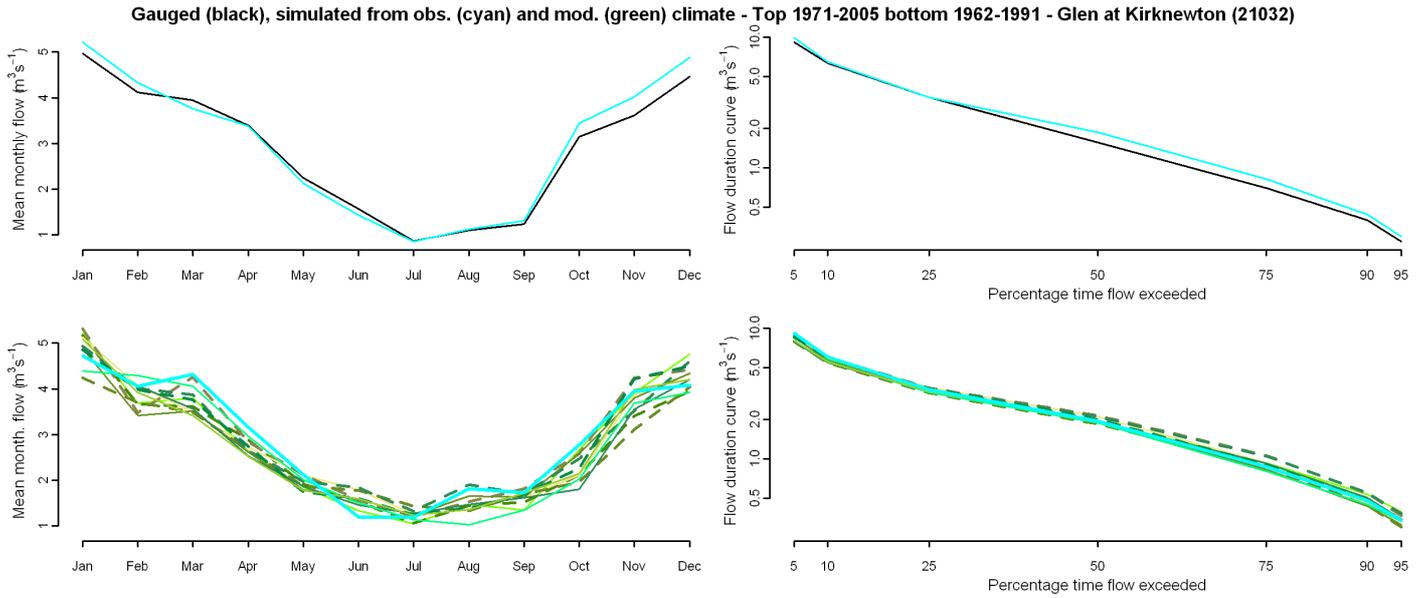
Gauged (black) and simulated (cyan) flows from observed climate - Glen at Kirknewton (21032)



Gauged (black) and simulated (cyan) flows from observed climate - Glen at Kirknewton (21032)



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	-2	-7	0	3	-6	-8	-9	1	-7	-2	-8
January	12	3	9	12	3	-4	-2	7	-5	3	8
April	-16	-16	-9	-5	-15	-16	-18	-7	-5	-11	-18
July	-9	1	9	1	4	14	8	12	-4	5	5
October	-2	-23	-23	-3	-11	-27	-25	-14	-26	-18	-20
Q90	14	-6	-3	10	-15	-10	1	13	-9	-5	-1
Q75	8	4	7	21	-8	-3	4	20	-9	2	1
Q50	0	1	8	12	-4	-4	-1	11	-3	3	1
Q25	-2	-4	4	5	-4	-4	-4	4	-4	1	-3
Q5	-7	-15	-8	-4	-9	-10	-13	-2	-11	-7	-15
RP2	-9	-13	-6	-6	-4	-19	-18	-11	-4	-8	-9
RP10	-24	-22	-16	-19	-6	-26	-25	-20	-21	-10	-5

Climate change graphs for 2050s

