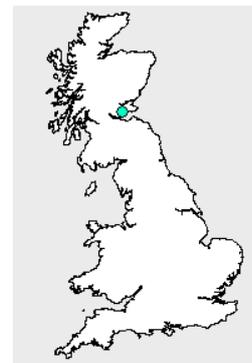


## General Information

River Name	Lochty Burn	Catchment Area (km <sup>2</sup> )	14
Station Name	Whinnyhall	SAAR (mm) 61-90	863
Station Number	17016	Mean Annual Rain (mm) 62-91	864
Grid Reference	NT220985	Mean Annual PE (mm) 62-91	526
EA Region	SEPA-SE	Observed flow record	1986 to 2003



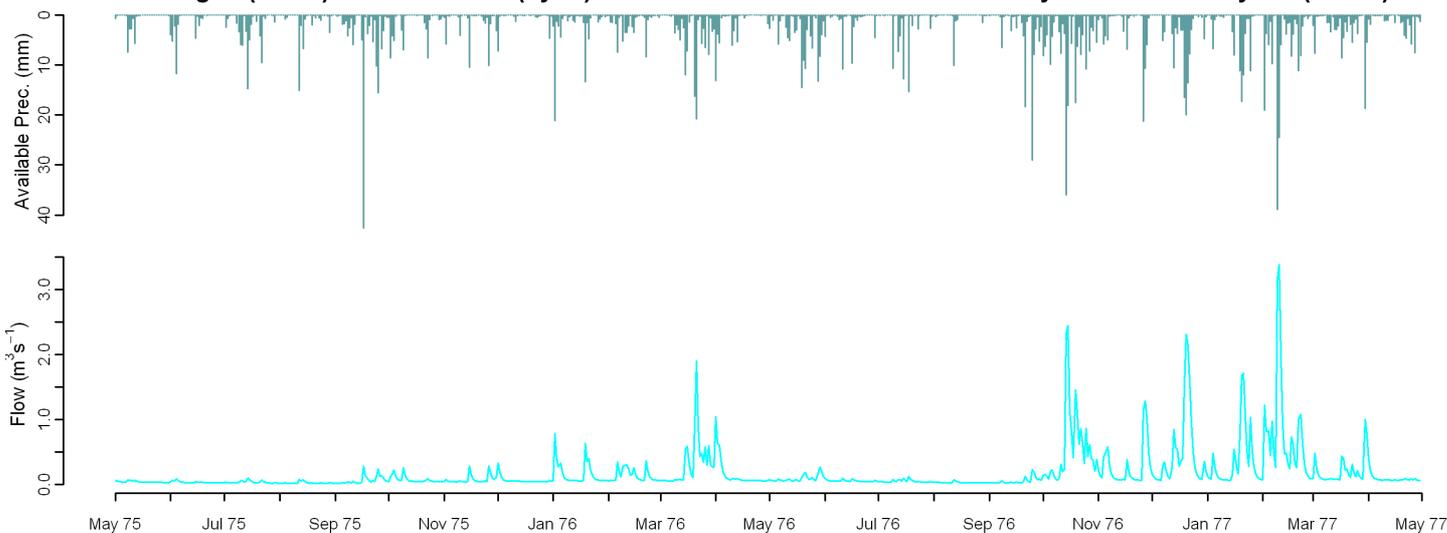
## Observed Data

## Comparison of gauged and simulated flow

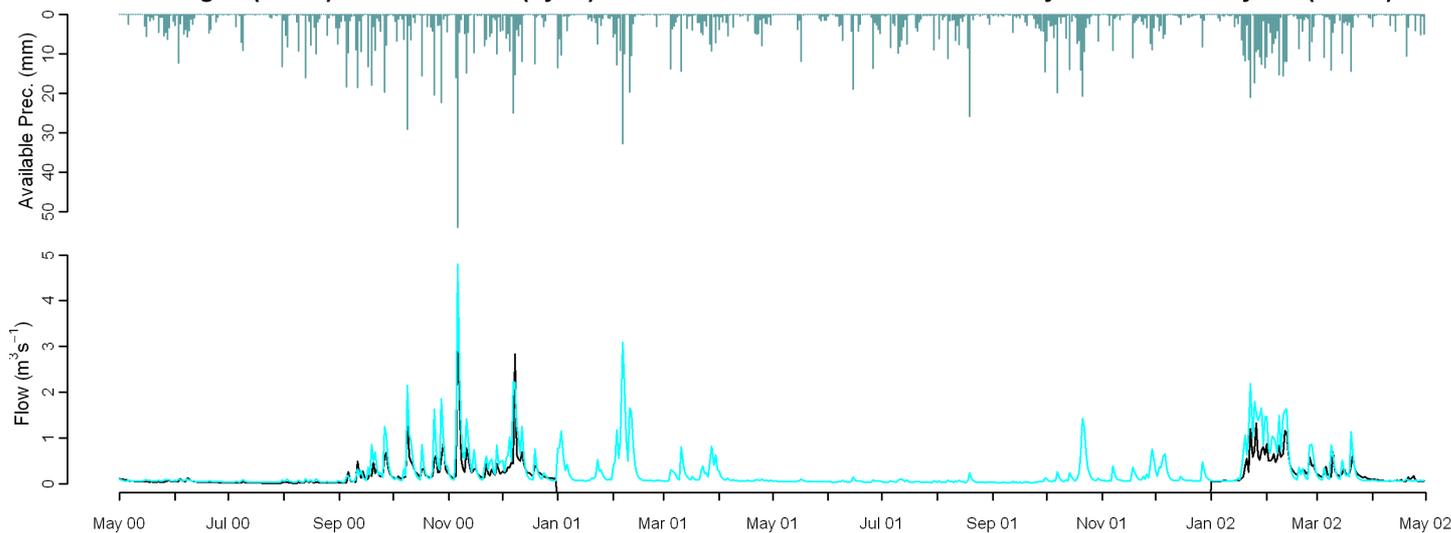
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-7.6	17.3	12.2	-8.5	-31.9	-41.8	-51.2	-55.8	-48.8	-31.9	-2.0	8.8	15.6	0.37
Performance Band	2	2	1	1	3	3	3	3	3	3	2	1	2	3
MORECS (1962-1991)	-22.8	9.5	3.4	-12.9	-47.2	-46.3	-54.8	-59.3	-56.9	-63.8	-25.8	-17.9	6.6	0.19
	Q90	Q75	Q50	Q25	Q5			RP2	RP5	RP10	RP20			
MORECS (1971-2005)	-51.6	-55.4	-56.7	-30.0	51.8									
Performance Band	1	1	2	3	3									
MORECS (1962-1991)	-64.4	-63.3	-61.1	-36.8	35.3									

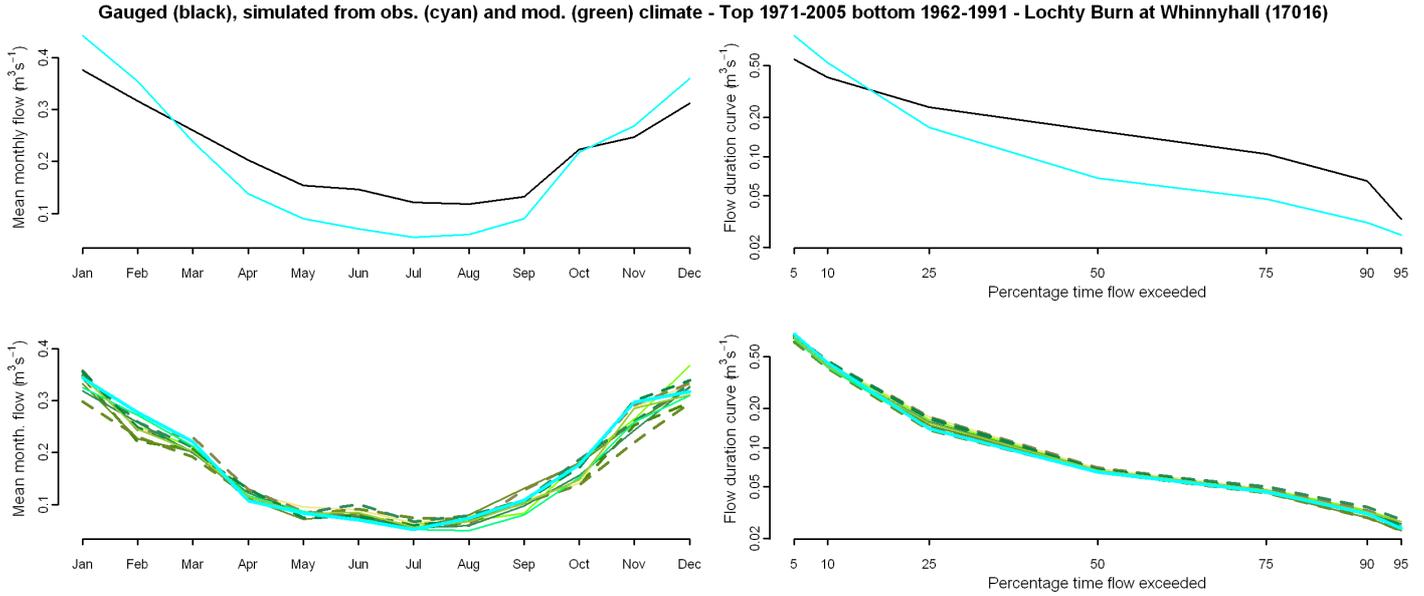
Gauged (black) and simulated (cyan) flows from observed climate - Lochty Burn at Whinnyhall (17016)



Gauged (black) and simulated (cyan) flows from observed climate - Lochty Burn at Whinnyhall (17016)



## 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>	1	-3	1	5	-5	-7	-5	3	-5	2	-3
<b>January</b>	2	-4	0	2	-4	-7	-9	4	-3	2	2
<b>April</b>	1	15	17	28	4	10	17	11	12	20	7
<b>July</b>	22	30	26	10	4	16	9	28	1	16	11
<b>October</b>	2	-19	-21	7	-3	-22	-1	-2	-17	-3	-12
<b>Q90</b>	7	0	-1	9	-6	-6	0	13	0	-1	6
<b>Q75</b>	5	1	4	6	-4	-3	-1	10	-1	2	3
<b>Q50</b>	5	2	5	8	1	0	3	6	0	4	3
<b>Q25</b>	16	6	22	26	3	-3	14	22	3	19	10
<b>Q5</b>	-3	-8	-4	-1	-6	-12	-8	-1	-8	-3	-8
<b>RP2</b>	-8	-9	-9	-7	-3	-12	-8	1	-3	-3	-6
<b>RP10</b>	-5	-4	-5	-4	4	-7	-5	12	-1	-2	-2

## Climate change graphs for 2050s

