

## General Information

River Name	Leven	Catchment Area (km <sup>2</sup> )	15
Station Name	Easby	SAAR (mm) 61-90	831
Station Number	25019	Mean Annual Rain (mm) 62-91	842
Grid Reference	NZ585087	Mean Annual PE (mm) 62-91	520
EA Region	EA-NE	Observed flow record	1971 to 1996



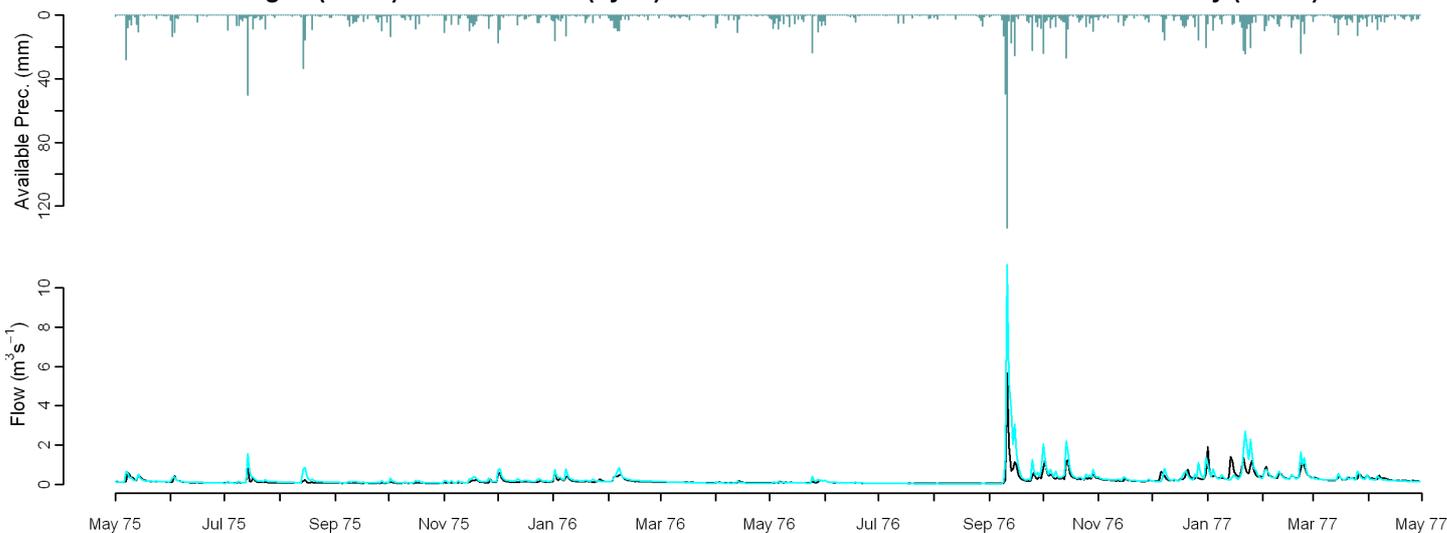
## Observed Data

## Comparison of gauged and simulated flow

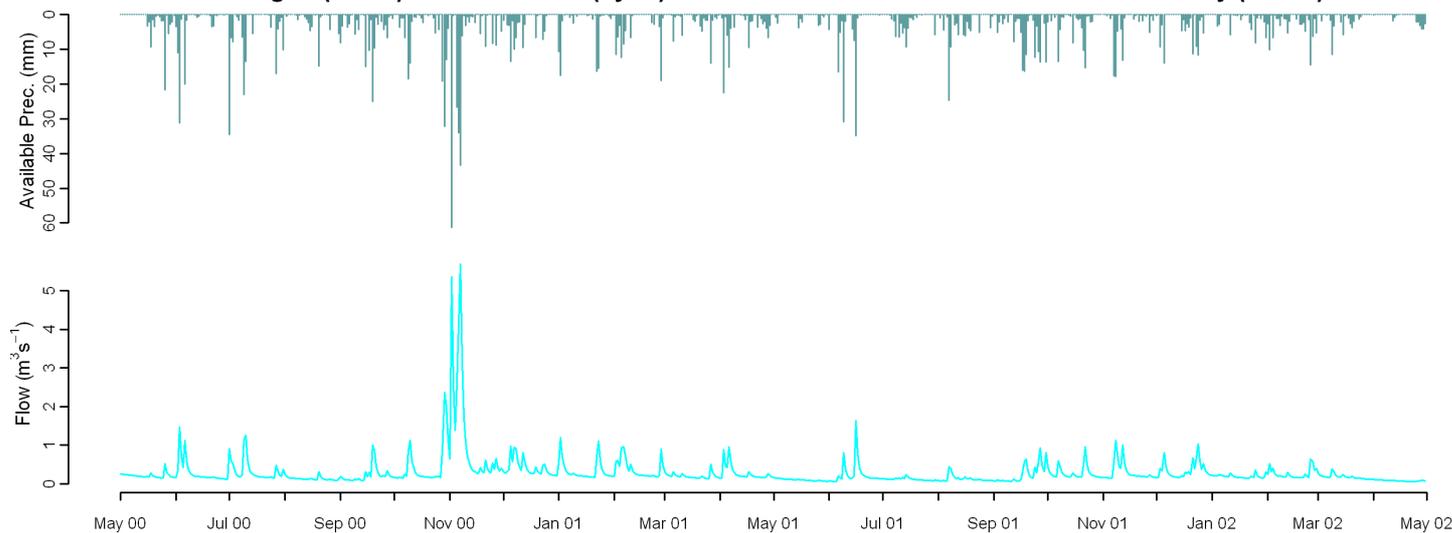
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	20.6	18.7	9.5	-0.7	-3.5	-4.6	4.5	24.0	46.8	63.2	44.2	47.6	35.5	0.48
Performance Band	3	2	1	1	1	1	1	2	3	3	3	3	3	2
MORECS (1962-1991)	19.3	17.3	10.1	-0.4	-2.7	-4.2	6.0	26.2	46.7	68.0	41.2	45.6	31.1	0.47
	Q90	Q75	Q50	Q25	Q5									
MORECS (1971-2005)	-6.9	11.3	23.1	16.7	34.5									
Performance Band	1	1	2	3	3									
MORECS (1962-1991)	-6.7	13.7	22.9	15.1	29.3									
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-6.9	11.3	23.1	16.7	34.5									
Performance Band	1	1	2	3	3									
MORECS (1962-1991)	-6.7	13.7	22.9	15.1	29.3									

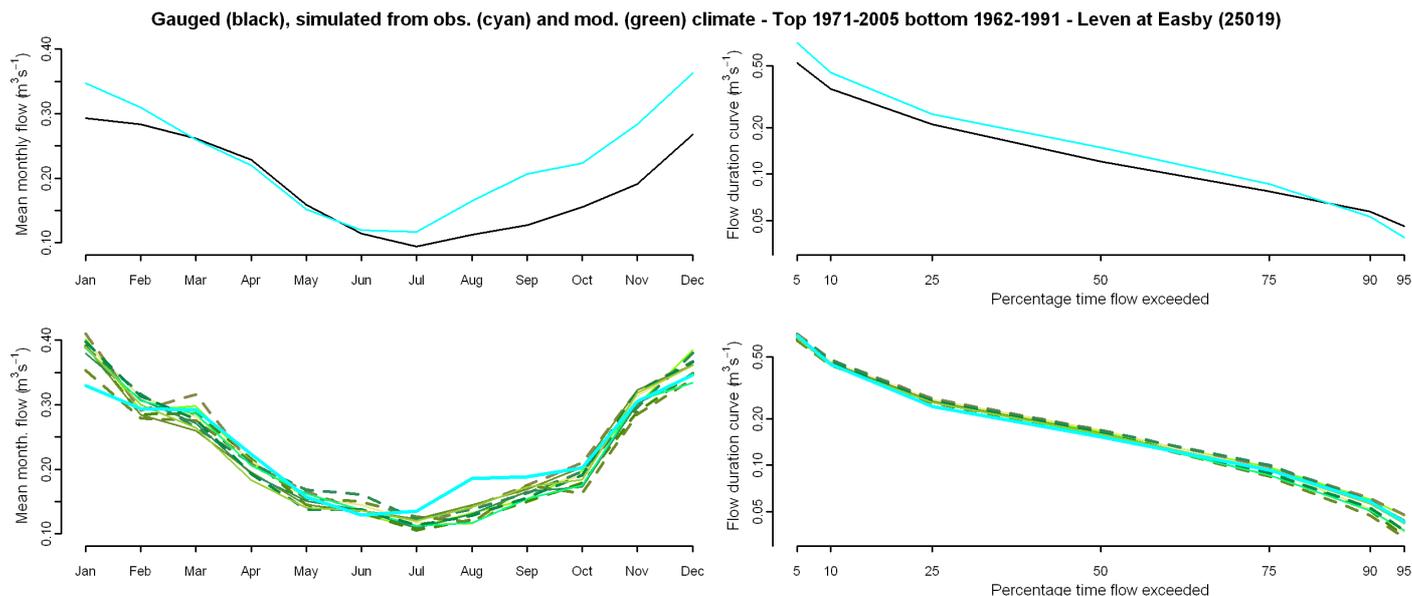
Gauged (black) and simulated (cyan) flows from observed climate - Leven at Easby (25019)



Gauged (black) and simulated (cyan) flows from observed climate - Leven at Easby (25019)



## 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	1	-3	1	5	-2	-3	-5	2	-4	-3	-3
January	24	12	23	25	18	11	15	19	19	20	15
April	-5	-13	0	-4	-10	-5	-15	-2	-8	-12	-12
July	-16	-10	-10	-15	-9	-5	-18	-6	-16	-19	-11
October	5	-6	-5	13	3	-15	-2	6	-9	-4	-6
Q90	4	-11	-10	6	-3	-20	-15	2	-14	-14	-3
Q75	7	-1	2	8	-3	-9	-8	10	-8	-7	1
Q50	10	6	11	14	4	5	4	12	4	5	5
Q25	11	6	10	14	7	6	5	12	6	7	5
Q5	-2	-5	-1	5	-3	-5	-5	3	-6	0	-4
RP2	-20	-21	-14	-17	-17	-13	-20	-16	-15	-12	-17
RP10	-32	-32	-30	-40	-35	-30	-27	-34	-23	-30	-26

## Climate change graphs for 2050s

