

General Information

River Name	Girvan	Catchment Area (km ²)	246
Station Name	Robstone	SAAR (mm) 61-90	1368
Station Number	82001	Mean Annual Rain (mm) 62-91	1371
Grid Reference	NX217997	Mean Annual PE (mm) 62-91	502
EA Region	SEPA-SW	Observed flow record	1963 to 2005



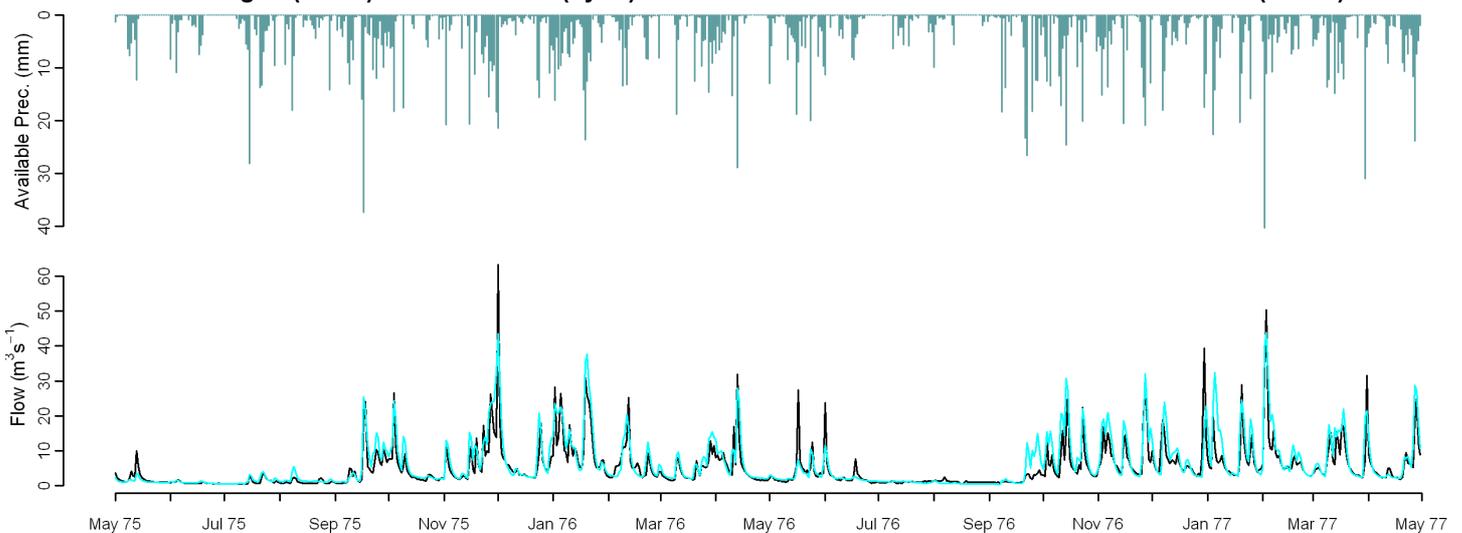
Observed Data

Comparison of gauged and simulated flow

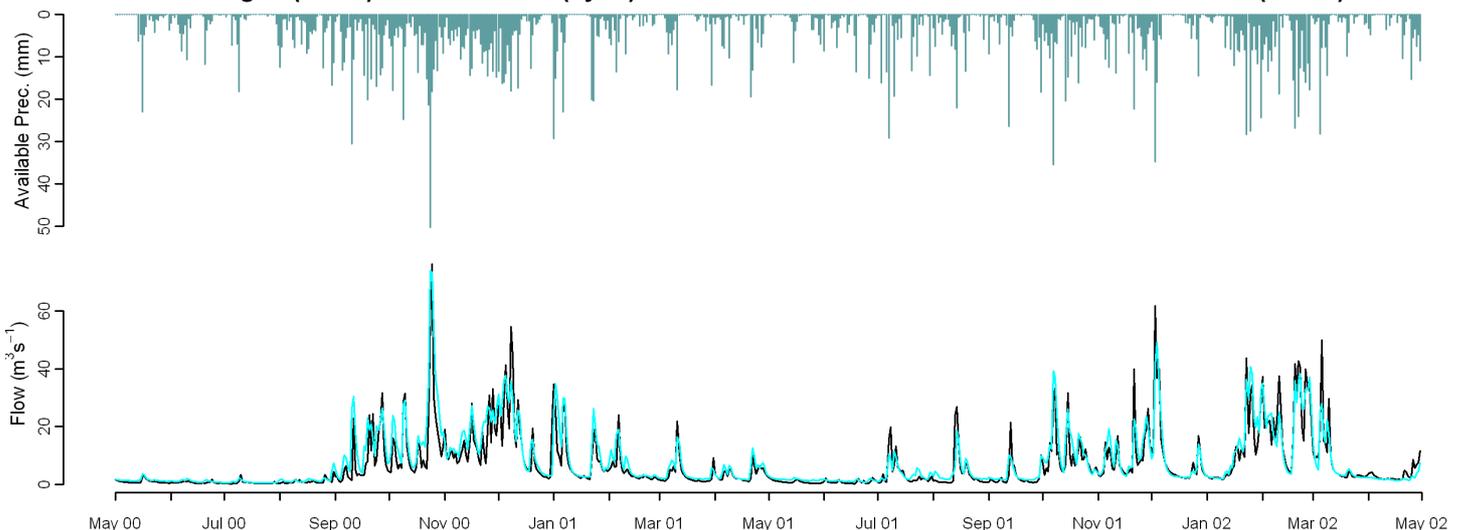
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	11.3	12.1	11.1	9.6	3.7	-0.3	7.5	1.1	12.2	18.6	13.0	15.0	8.9	0.80
Performance Band	1	1	1	2	1	1	1	1	2	2	1	2	2	1
MORECS (1962-1991)	10.3	11.6	11.3	10.5	2.8	-7.4	1.1	3.7	9.6	16.7	10.8	15.0	11.0	0.80
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	60.7	31.1	-4.2	20.6	9.6									
Performance Band	1	1	2	1	1									
MORECS (1962-1991)	43.8	27.5	-6.2	16.8	10.1									

Gauged (black) and simulated (cyan) flows from observed climate - Girvan at Robstone (82001)

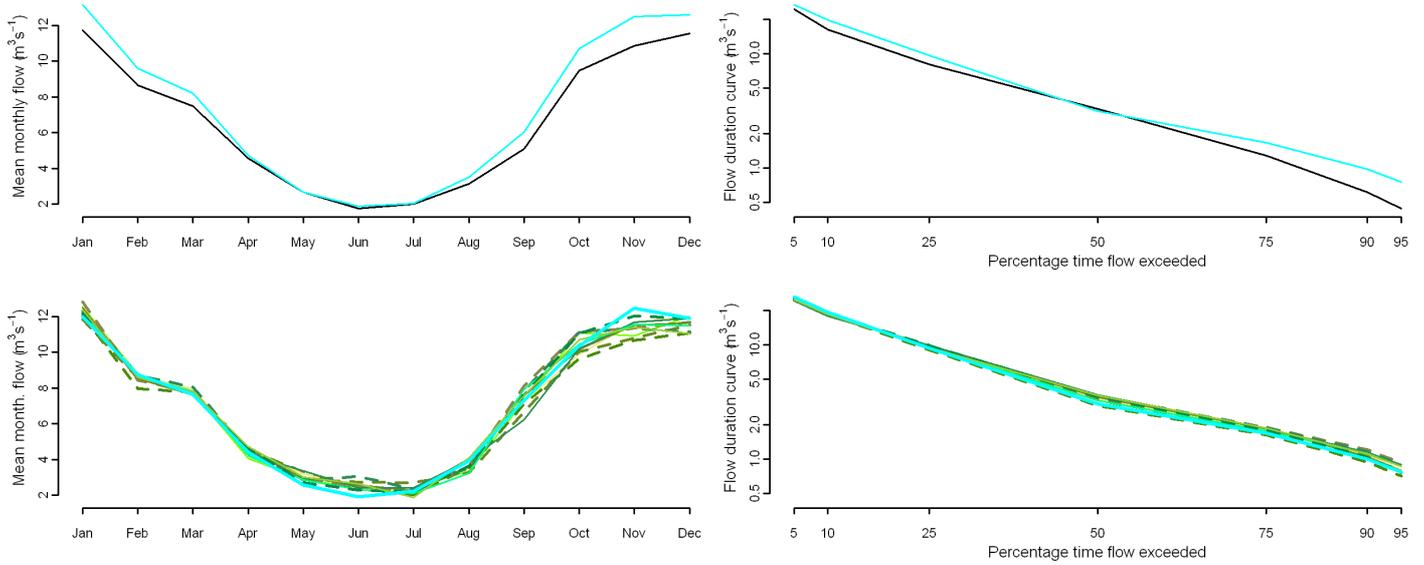


Gauged (black) and simulated (cyan) flows from observed climate - Girvan at Robstone (82001)



Comparison of gauged and simulated flow (observed and modelled climate)

Gauged (black), simulated from obs. (cyan) and mod. (green) climate - Top 1971-2005 bottom 1962-1991 - Girvan at Robstone (82001)



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	-1	3	6	2	-1	1	3	1	2	2
January	5	4	6	5	5	3	-1	4	3	-2	7
April	-5	2	0	10	3	4	0	1	-7	6	6
July	9	-6	-2	12	2	9	11	6	-4	0	-17
October	8	-1	-7	11	-1	-2	6	6	2	8	6
Q90	11	-4	6	23	3	4	13	15	14	2	11
Q75	6	-2	4	14	7	1	9	12	5	6	10
Q50	12	-2	8	17	14	7	21	16	8	14	19
Q25	3	-1	5	6	4	3	6	3	3	4	2
Q5	-2	-2	-3	-1	-3	-6	-8	-1	-2	-4	-5
RP2	-7	-3	-3	5	-8	-4	-3	-2	-2	-2	0
RP10	-8	-7	0	8	-4	-8	-3	5	0	1	5

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Girvan at Robstone (82001)

