

General Information

River Name	Tamar	Catchment Area (km ²)	917
Station Name	Gunnislake	SAAR (mm) 61-90	1214
Station Number	47001	Mean Annual Rain (mm) 62-91	1219
Grid Reference	SX426725	Mean Annual PE (mm) 62-91	565
EA Region	EA-SW	Observed flow record	1962 to 2005



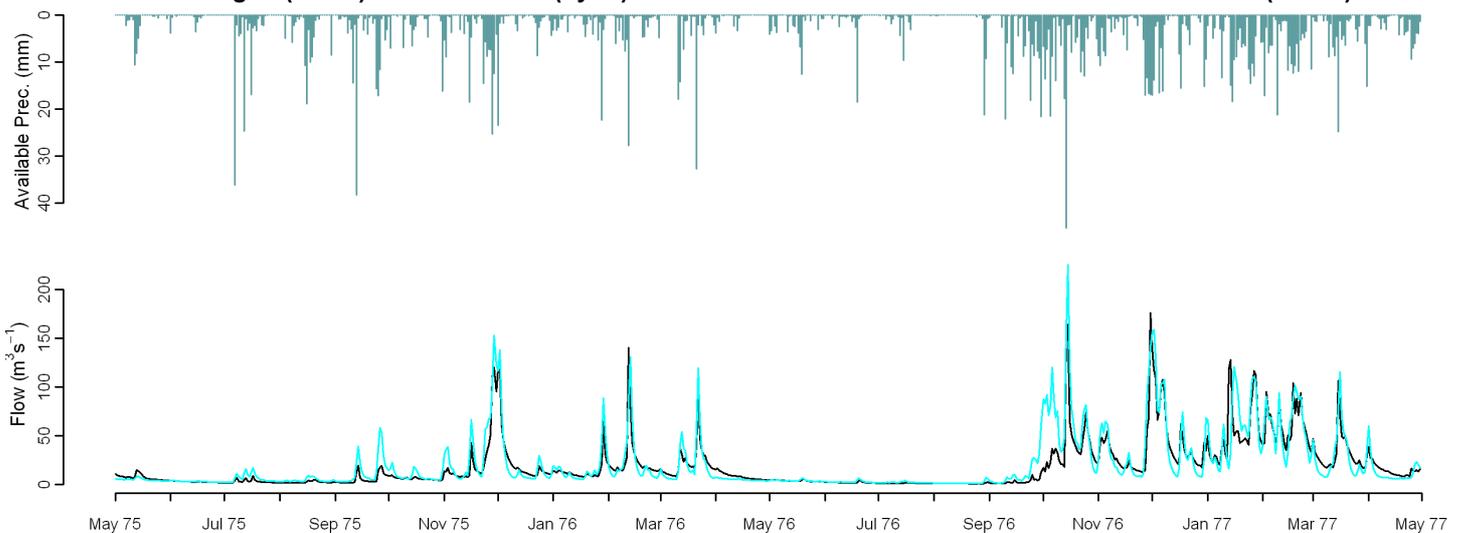
Observed Data

Comparison of gauged and simulated flow

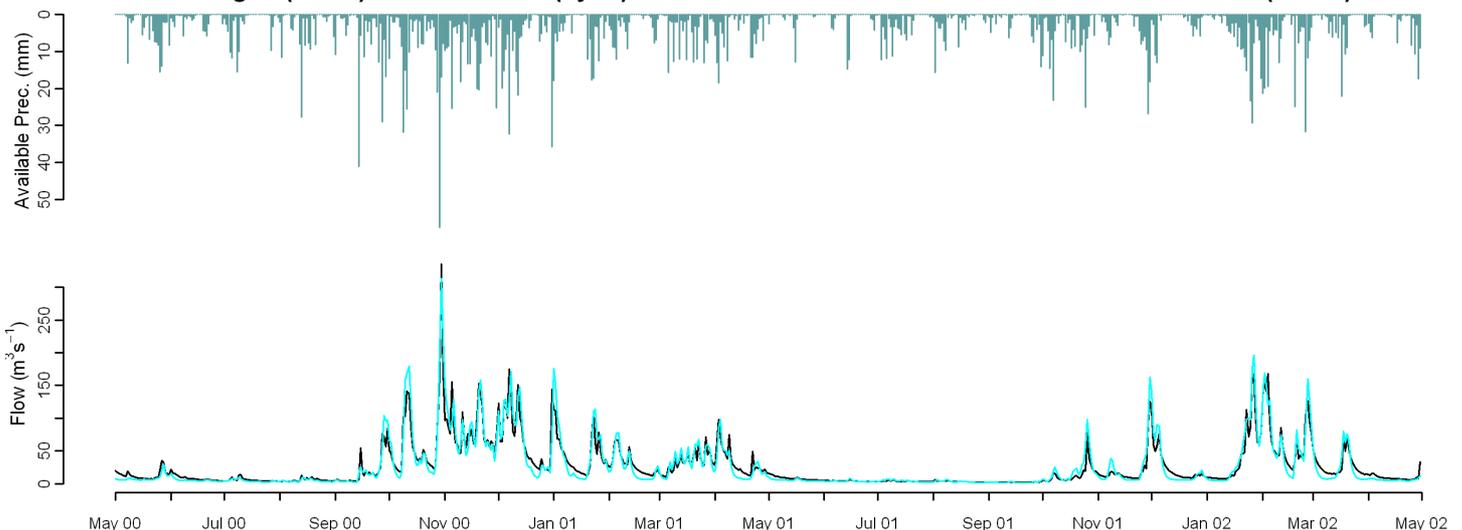
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	0.0	-0.6	-3.7	-8.9	-18.3	-20.8	-16.8	-6.7	-0.6	17.9	18.9	8.1	3.0	0.85
Performance Band	1	1	1	1	2	2	2	1	1	2	1	1	1	1
MORECS (1962-1991)	-2.8	-3.2	-5.5	-8.6	-22.0	-24.6	-15.2	-4.2	-4.8	13.5	16.0	4.9	0.3	0.84
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	-1.8	-10.8	-37.0	-5.8	16.9									
Performance Band	1	1	2	2	1									
MORECS (1962-1991)	12.2	-9.8	-38.5	-7.7	13.8									

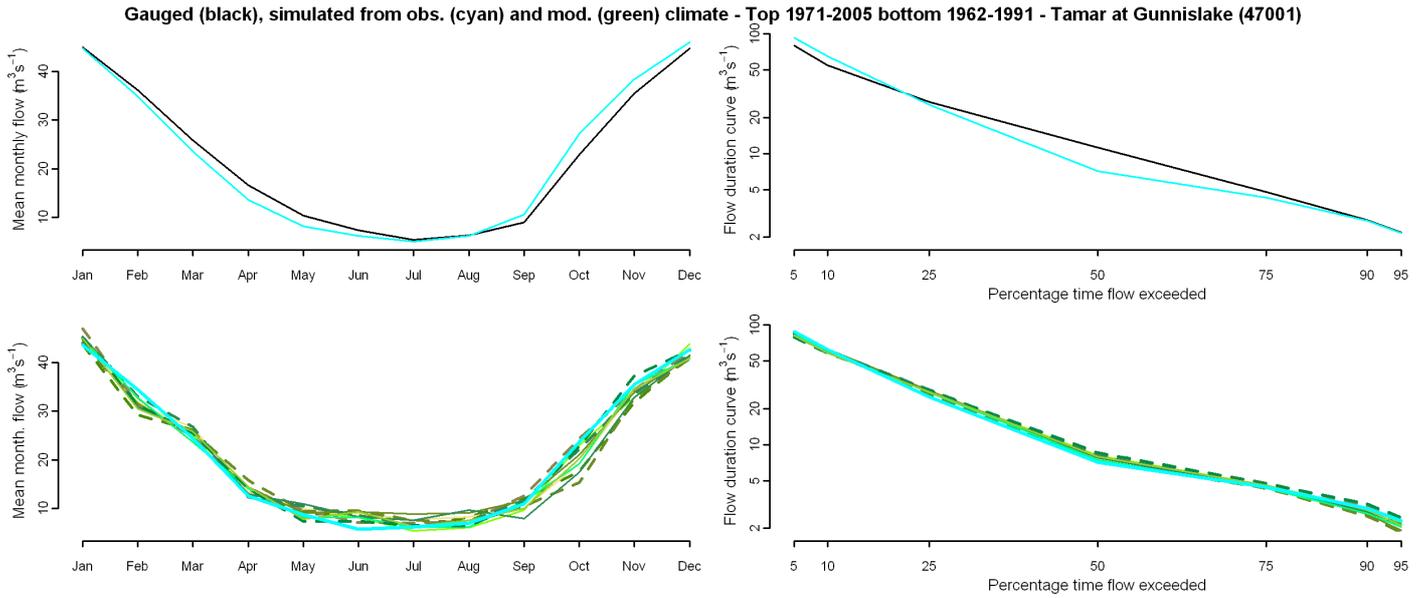
Gauged (black) and simulated (cyan) flows from observed climate - Tamar at Gunnislake (47001)



Gauged (black) and simulated (cyan) flows from observed climate - Tamar at Gunnislake (47001)



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	-1	1	3	2	0	-2	3	-2	-1	-1
January	5	0	9	6	5	3	2	6	3	0	6
April	13	8	11	10	17	26	9	3	12	7	17
July	-14	15	24	14	35	27	23	12	1	1	0
October	-5	-18	-21	8	-18	-32	-22	-10	-19	-5	-14
Q90	-1	-13	-5	5	-14	-15	-6	-2	-12	3	-5
Q75	3	-1	4	9	-2	-4	1	3	-3	6	2
Q50	13	3	8	18	6	2	11	13	3	15	9
Q25	12	5	13	15	10	8	12	18	9	11	10
Q5	-8	-3	-3	-6	-3	-6	-9	-5	-7	-12	-8
RP2	-5	-5	-5	0	2	3	6	-4	0	-1	-1
RP10	-3	-2	1	2	-4	8	5	-4	7	9	1

Climate change graphs for 2050s

