

General Information

River Name	Kinnel Water	Catchment Area (km2)	229
Station Name	Bridgemuir	SAAR (mm) 61-90	1396
Station Number	78005	Mean Annual Rain (mm) 62-91	1398
Grid Reference	NY091845	Mean Annual PE (mm) 62-91	488
EA Region	SEPA-SW	Observed flow record	1979 to 2005



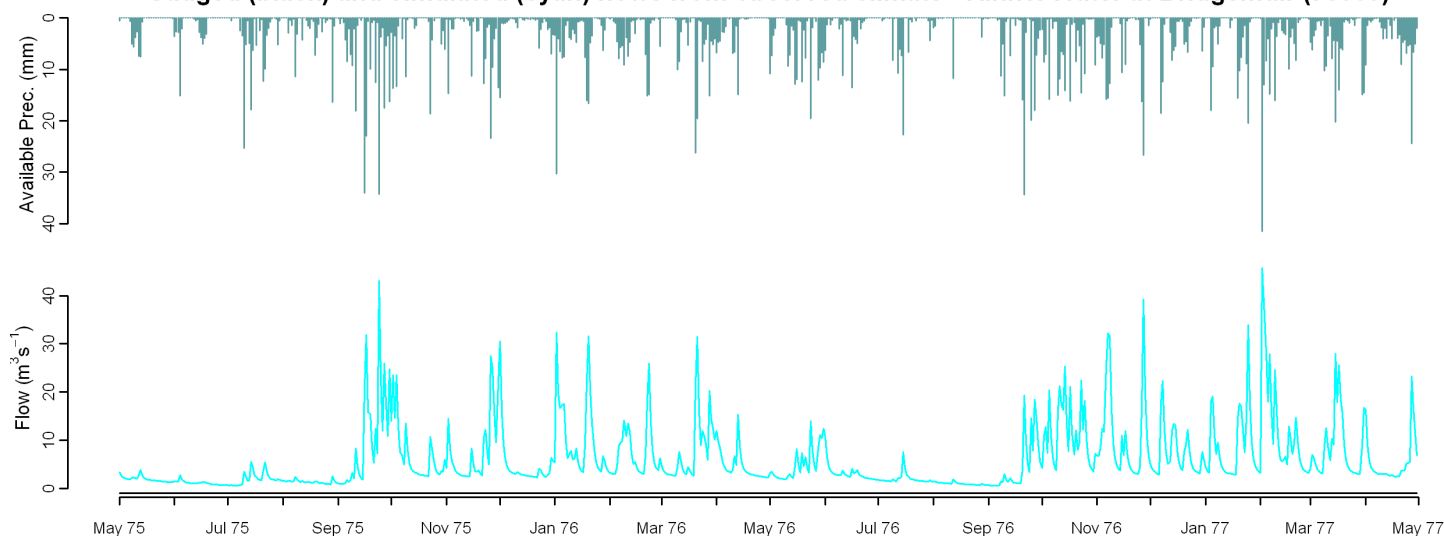
Observed Data

Comparison of gauged and simulated flow

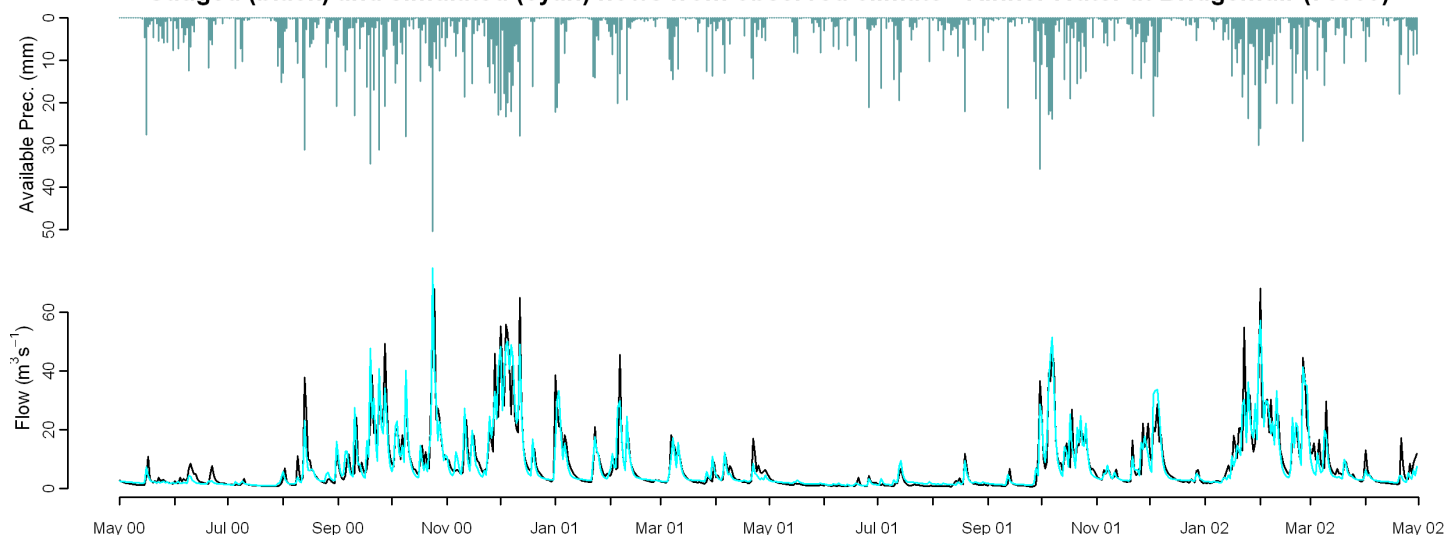
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-5.8	-2.6	-1.5	-7.6	-11.0	-11.5	-11.6	-12.9	-10.8	-10.5	-3.8	-5.8	-1.8	0.79
Performance Band	1	1	1	1	1	2	2	1	2	1	1	1	1	1
MORECS (1962-1991)	-4.1	-0.2	0.9	-3.8	-9.8	-8.9	-14.6	-10.2	-12.7	-12.1	-2.6	-2.8	0.7	0.80
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	36.3	16.5	-17.7	-12.3	0.6									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	33.7	13.0	-16.7	-7.5	0.4									

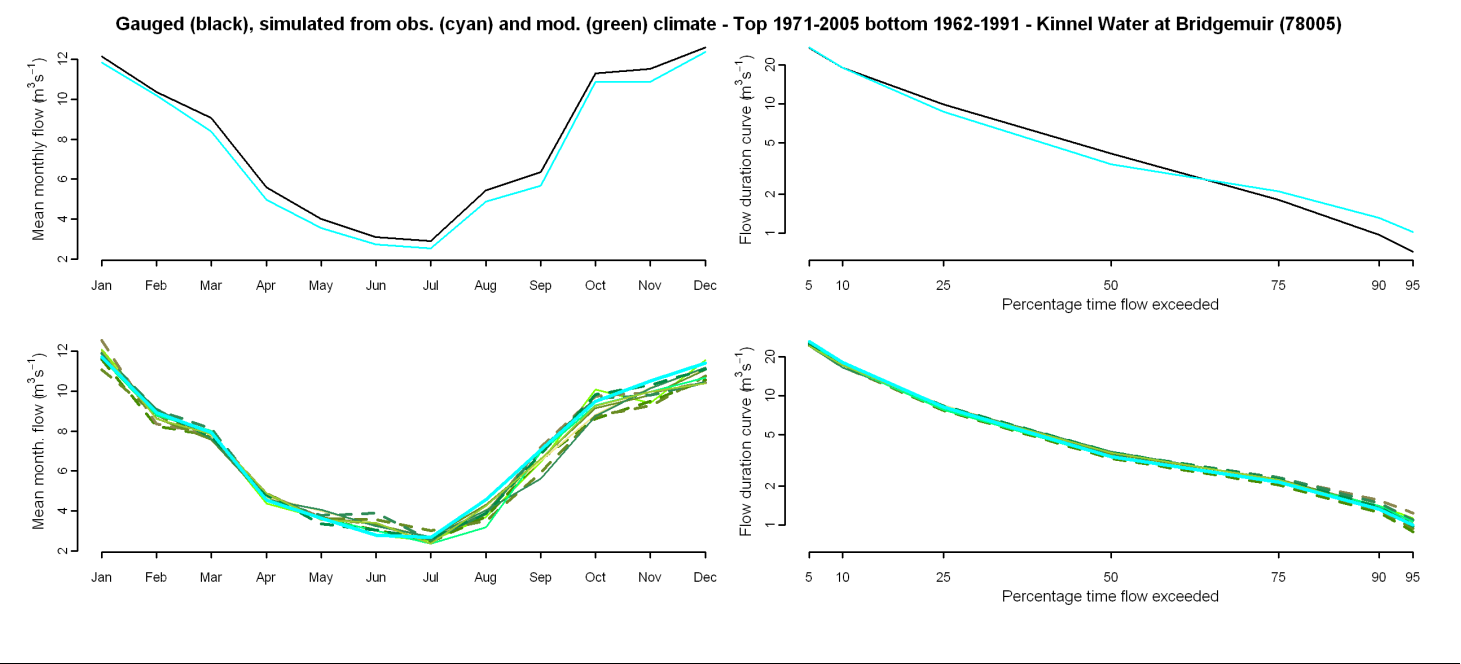
Gauged (black) and simulated (cyan) flows from observed climate - Kinnel Water at Bridgemuir (78005)



Gauged (black) and simulated (cyan) flows from observed climate - Kinnel Water at Bridgemuir (78005)



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

Climate change graphs for 2050s

