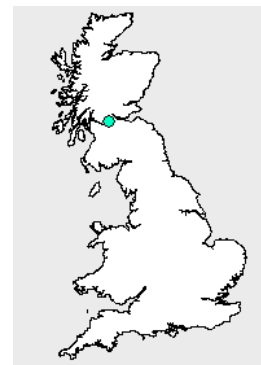


General Information

River Name	Luggie Water	Catchment Area (km2)	34
Station Name	Condorrat	SAAR (mm) 61-90	1089
Station Number	84016	Mean Annual Rain (mm) 62-91	1095
Grid Reference	NS739725	Mean Annual PE (mm) 62-91	510
EA Region	SEPA-SW	Observed flow record	1966 to 2005



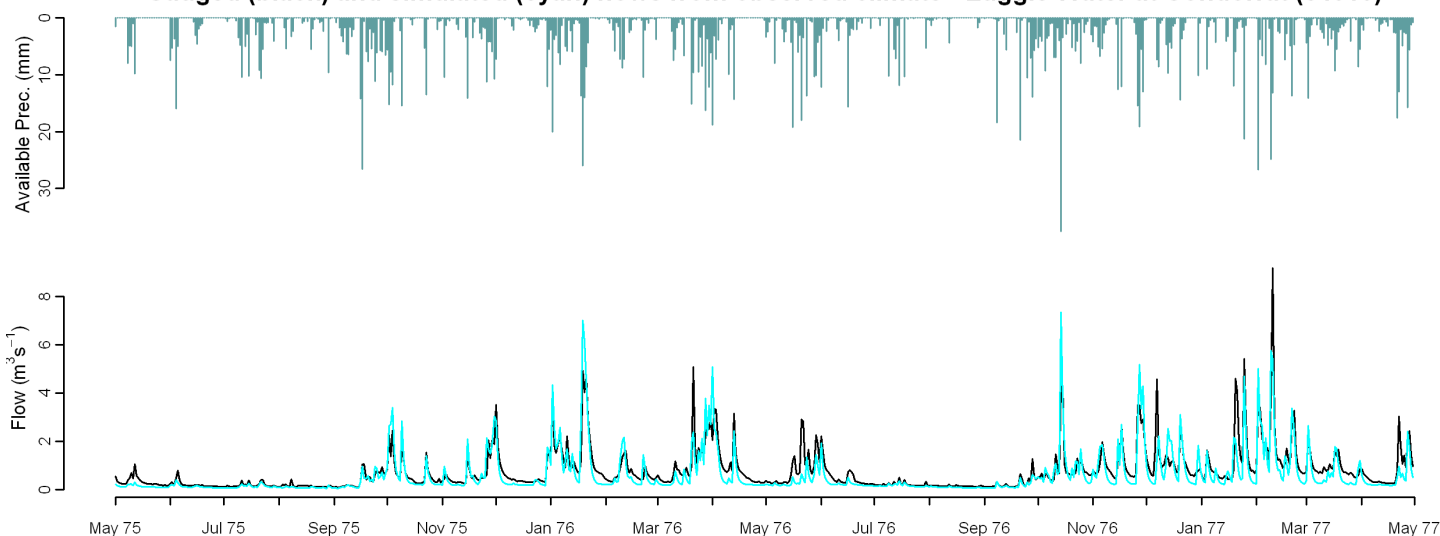
Observed Data

Comparison of gauged and simulated flow

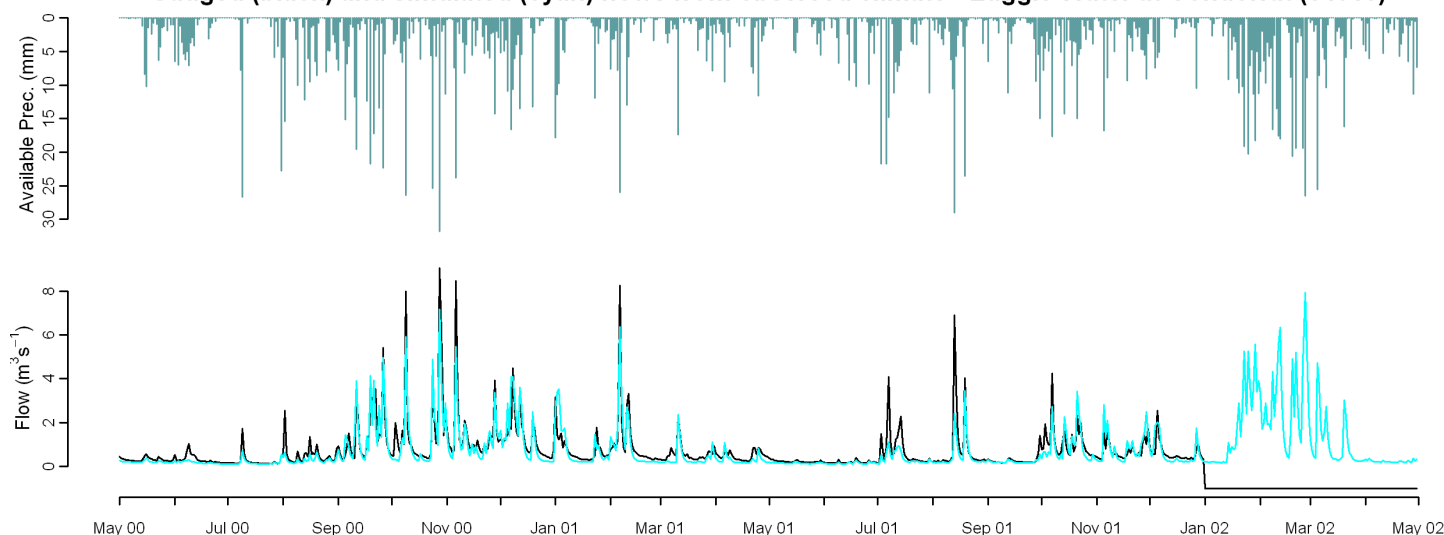
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-13.6	-5.7	-8.3	-15.2	-30.7	-34.4	-36.5	-30.6	-27.2	-17.1	-7.1	-7.1	-6.6	0.75
Performance Band	2	1	1	2	3	3	3	3	3	2	1	1	1	1
MORECS (1962-1991)	-13.8	-9.6	-9.1	-16.9	-33.9	-37.2	-36.7	-28.9	-27.0	-12.3	-3.9	-2.6	-5.3	0.77
	Q90	Q75	Q50	Q25	Q5									
MORECS (1971-2005)	-29.4	-30.3	-45.7	-18.9	10.1									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	-23.5	-25.8	-44.9	-20.4	8.3									

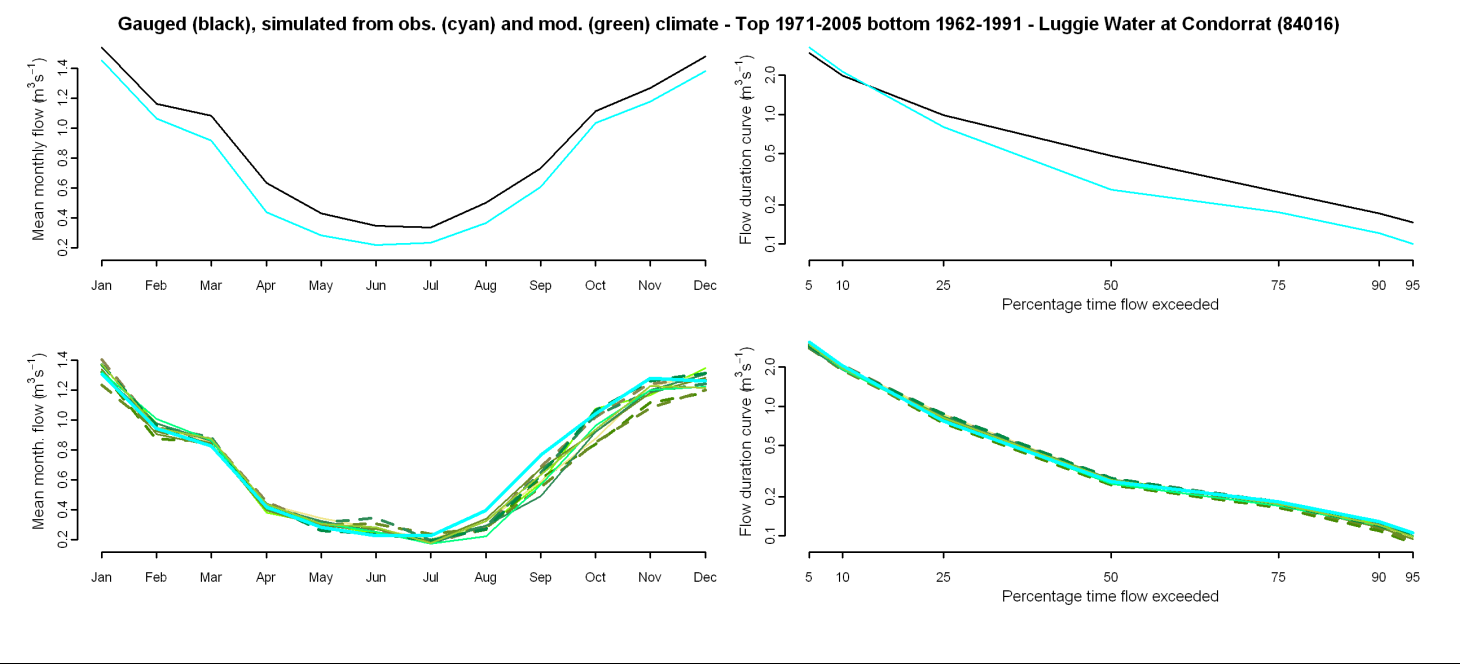
Gauged (black) and simulated (cyan) flows from observed climate - Luggie Water at Condorrat (84016)



Gauged (black) and simulated (cyan) flows from observed climate - Luggie Water at Condorrat (84016)



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	-5	-1	3	-3	-6	-3	1	-3	0	-2
January	5	2	5	5	2	0	-2	7	2	3	8
April	-7	3	4	16	-4	4	4	0	-3	6	3
July	-14	-8	-11	-20	-16	-11	-21	-14	-22	-13	-23
October	2	-15	-20	2	-11	-17	-3	-4	-7	3	-5
Q90	-2	-13	-8	-1	-13	-11	-7	-3	-6	-9	-7
Q75	-2	-8	-5	-1	-6	-8	-5	0	-6	-6	-4
Q50	5	-5	3	6	0	-1	5	6	-3	5	3
Q25	11	-2	11	15	2	0	9	14	4	12	7
Q5	-5	-7	-8	-3	-7	-9	-9	-4	-6	-7	-6
RP2	-14	-13	-16	-8	-12	-14	-12	-3	-10	-11	-10
RP10	-9	-9	-9	-3	-2	-9	-14	2	4	3	0

Climate change graphs for 2050s

