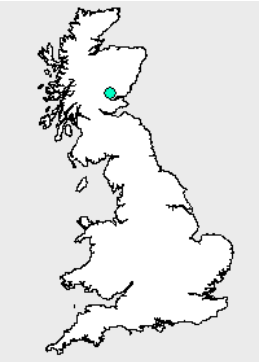
Catchment Fact Sheet 15006 Future Flows and Groundwater Levels

General Information

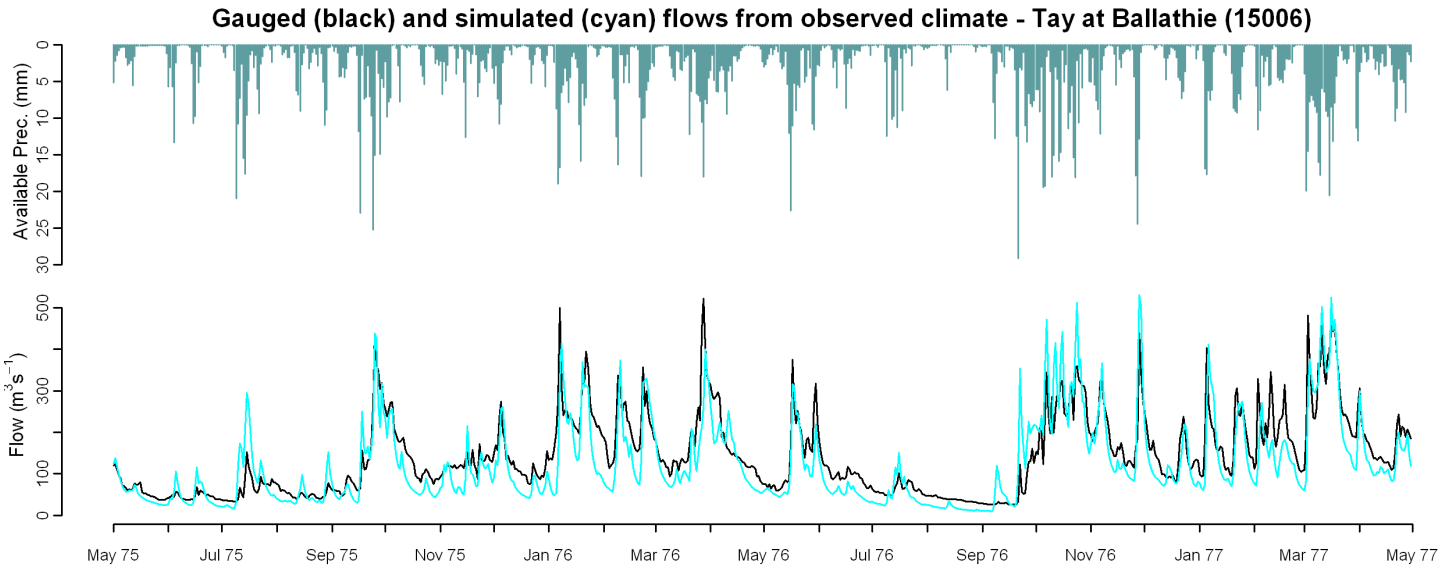
River Name	Tay	Catchment Area (km2)	4587
Station Name	Ballathie	SAAR (mm) 61-90	1425
Station Number	15006	Mean Annual Rain (mm) 62-91	1322
Grid Reference	NO147367	Mean Annual PE (mm) 62-91	458
EA Region	SEPA-NE	Observed flow record	1961 to 2005

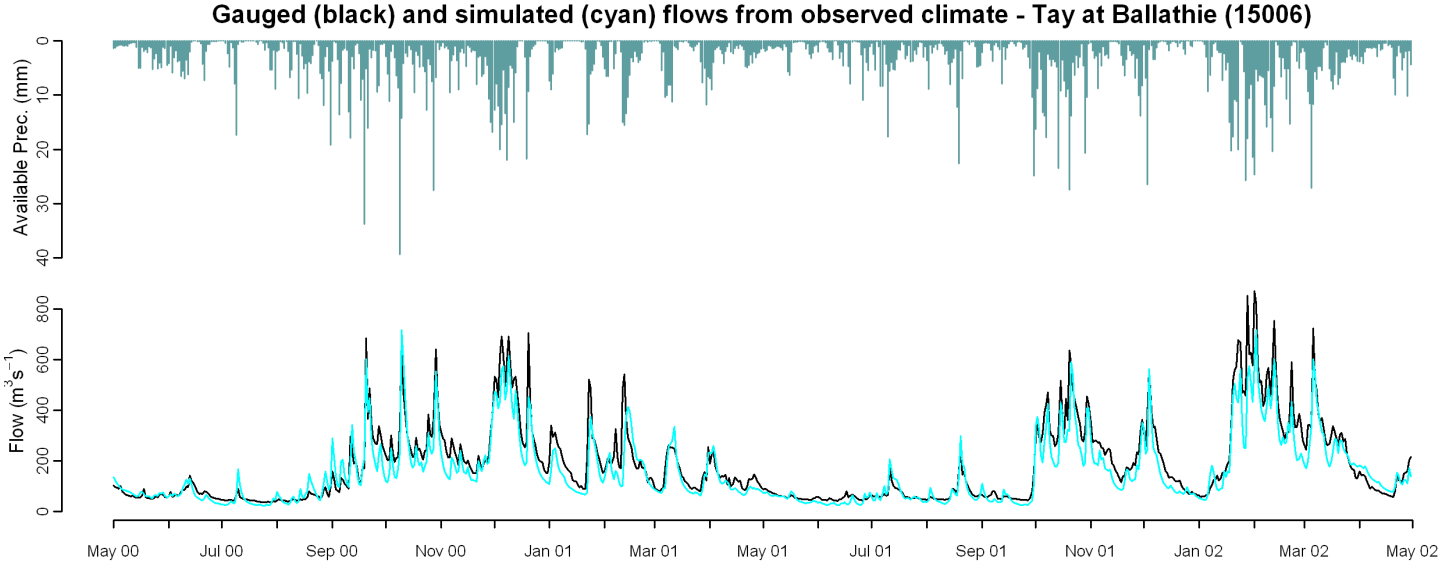


Observed Data Comparison of gauged and simulated flow Model used: CLASSIC

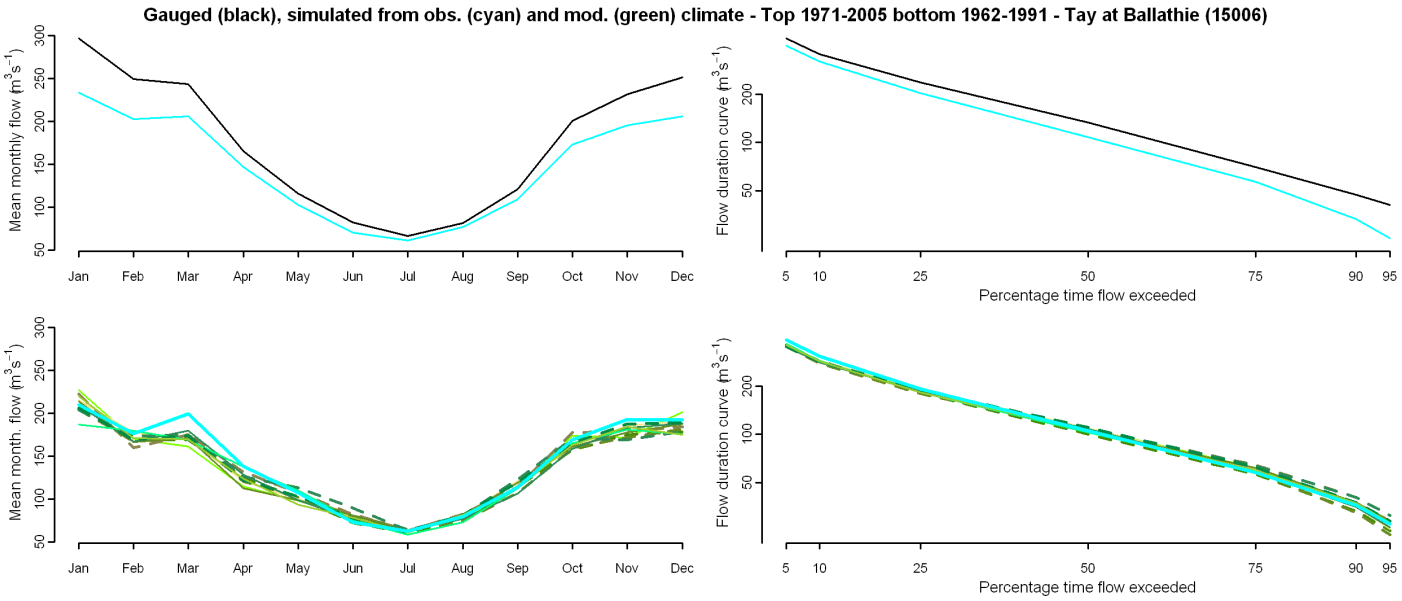
	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-15.4	-21.4	-18.8	-15.6	-11.2	-11.3	-14.8	-7.3	-5.9	-10.2	-13.9	-15.7	-18.1	0.80
Performance Band	2	2	2	2	2	2	2	1	1	2	2	2	2	1
FAO (1962-1991)	-13.6	-18.0	-17.2	-16.4	-10.0	-11.0	-12.7	-8.5	-5.8	-7.4	-12.8	-11.8	-15.6	0.79

	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20
MORECS (1971-2005)	-29.5	-19.3	-18.9	-14.2	-10.1	-14.3	-20.8	-26.7	-32.9
Performance Band	1	1	2	1	1				
FAO (1962-1991)	-26.8	-23.2	-19.6	-9.9	-5.8	-16.0	-21.1	-24.8	-28.3





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	-2	-4	-2	1	-4	-5	-3	-1	-3	-3	-3
January	10	-2	3	5	2	1	-3	-1	-9	-3	7
April	-18	-10	-13	-1	-17	-12	-7	-7	2	-10	-13
July	3	3	1	7	2	-2	7	2	-2	-1	-2
October	4	-4	-6	10	-4	-3	-1	0	1	-2	1
Q90	2	-7	-4	15	0	-10	-3	10	1	3	2
Q75	6	-2	3	13	4	-1	1	9	1	6	2
Q50	3	-3	3	6	-1	1	3	5	-2	4	0
Q25	-3	-5	-1	0	-6	-6	-2	-3	-4	-2	-5
Q5	-7	-7	-6	-7	-9	-8	-8	-8	-5	-10	-6
RP2	2	1	-2	5	4	5	2	-3	0	-4	8
RP10	9	2	-2	11	10	4	10	2	1	-7	7

Climate change graphs for 2050s