Catchment Fact Sheet 84018 Future Flows and Groundwater Levels

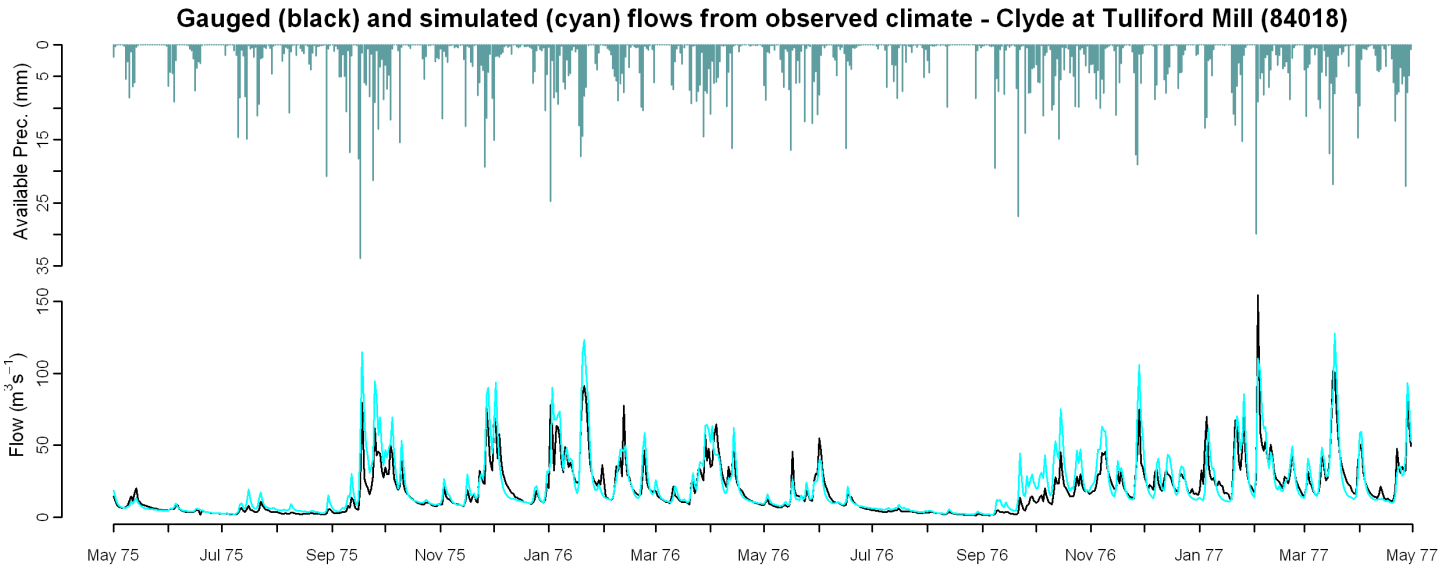
General Information

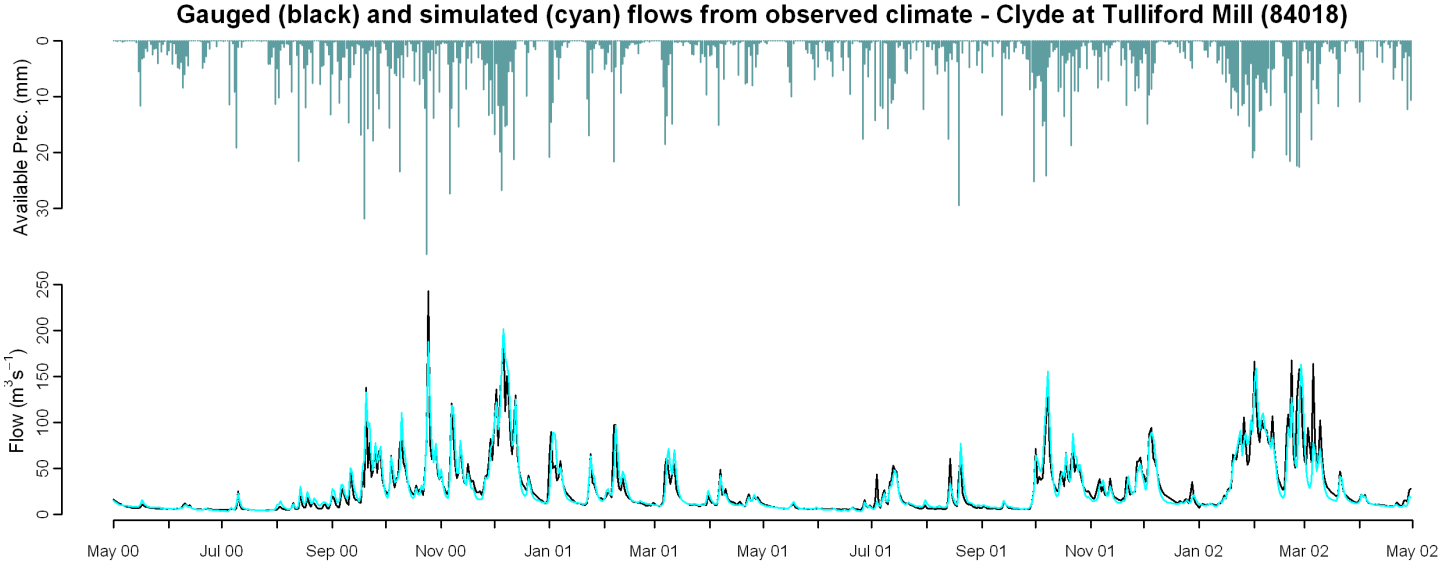
River Name	Clyde	Catchment Area (km2)	933
Station Name	Tulliford Mill	SAAR (mm) 61-90	1204
Station Number	84018	Mean Annual Rain (mm) 62-91	1219
Grid Reference	NS891404	Mean Annual PE (mm) 62-91	454
EA Region	SEPA-SW	Observed flow record	1969 to 2005

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)	0.3	-3.1	-1.5	-3.6	-9.5	-14.0	-12.9	-2.6	5.5	12.5	12.6	6.0	0.9	0.81
Performance Band	1	1	1	1	1	2	2	1	1	2	1	1	1	1
MORECS (1962-1991)	1.5	-1.3	-0.8	-0.9	-8.6	-15.5	-13.5	-0.3	4.8	13.4	8.8	10.4	2.9	0.79

	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20
MORECS (1971-2005)	-5.0	1.9	-14.2	-5.2	9.8				
Performance Band	1	1	1	1	1				
MORECS (1962-1991)	-2.4	0.9	-12.8	-2.9	11.5				





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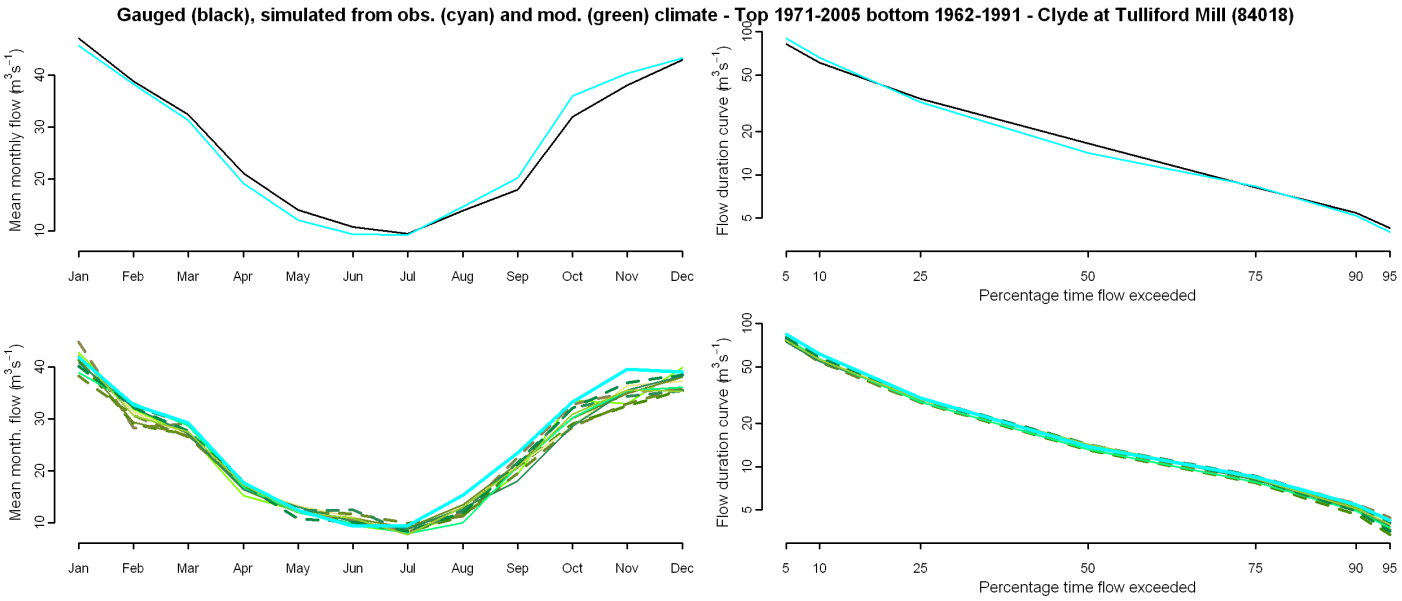
Comparison of gauged and simulated flow (observed and modelled climate)



Percentage difference between flow simulated from observed climate and Future Flows Climate

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-4	-6	-3	-1	-5	-7	-5	-3	-6	-4	-5
January	2	0	2	5	0	-5	-5	0	-6	-7	4
April	-11	-5	-3	8	-7	-3	-4	-2	-5	1	-3
July	-12	-6	-11	-9	-4	-7	-5	-13	-16	-13	-19
October	1	-8	-16	3	-8	-13	-5	-6	-9	-2	-5
Q90	-3	-12	-7	3	-9	-10	-8	-2	-8	-14	-7
Q75	-2	-8	-2	1	-3	-10	-6	0	-9	-6	-3
Q50	0	-5	3	2	1	-2	4	2	-4	3	3
Q25	-3	-6	-1	-1	-3	-7	-1	-1	-6	-1	-3
Q5	-8	-8	-8	-4	-8	-9	-11	-5	-7	-8	-10
RP2	-9	-6	-7	-4	-3	0	-8	-5	-2	-10	-8
RP10	-13	-2	-5	-9	7	-6	-7	0	-4	-3	0

Climate change graphs for 2050s