Catchment Fact Sheet 84022 Future Flows and Groundwater Levels

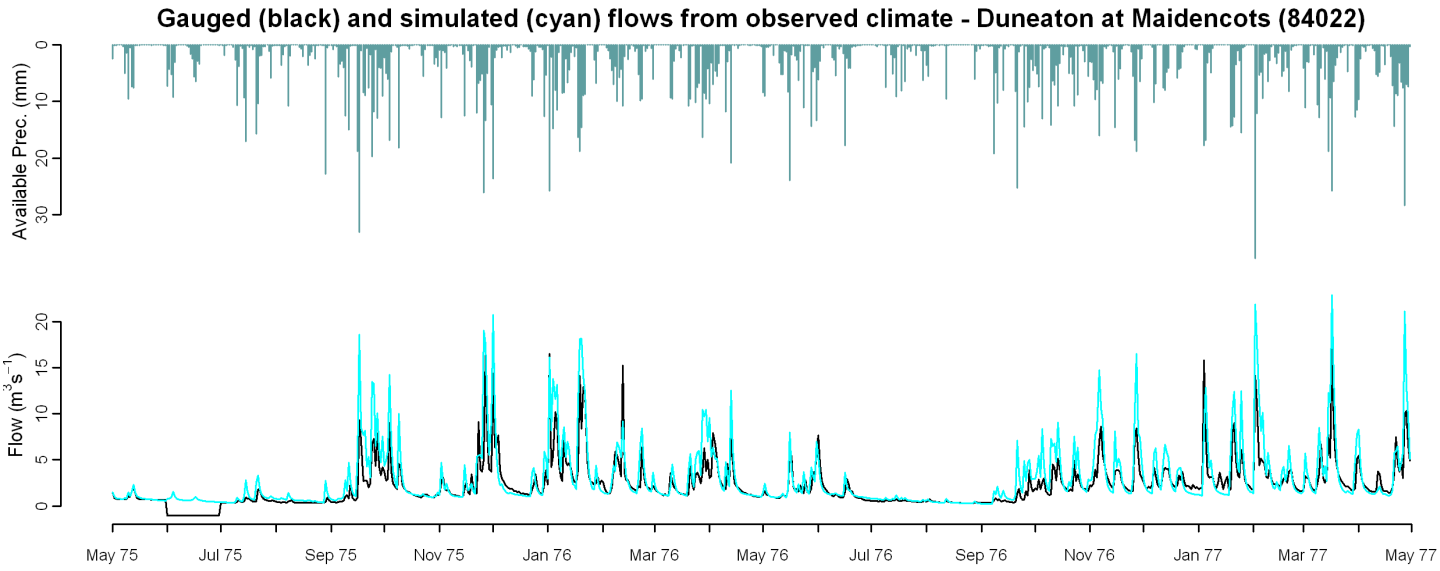
General Information

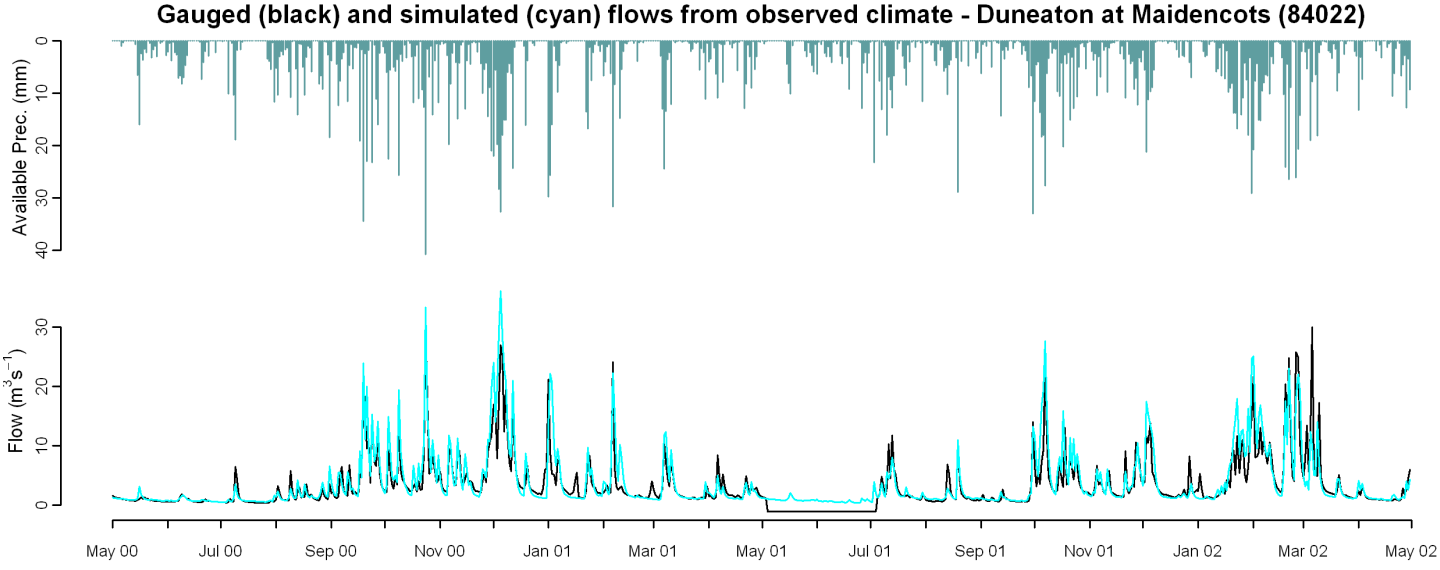
River Name	Duneaton	Catchment Area (km2)	110
Station Name	Maidencots	SAAR (mm) 61-90	1305
Station Number	84022	Mean Annual Rain (mm) 62-91	1317
Grid Reference	NS929259	Mean Annual PE (mm) 62-91	442
EA Region	SEPA-SW	Observed flow record	1966 to 2005

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)	12.8	11.7	10.2	6.9	-1.3	-0.3	1.1	14.0	20.1	29.2	28.4	18.1	12.1	0.63
Performance Band	2	2	1	1	1	1	1	2	2	2	2	2	2	2
MORECS (1962-1991)	16.1	14.7	8.6	12.0	-4.0	-2.2	-2.2	12.5	22.7	28.1	25.4	21.7	16.1	0.59

	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20
MORECS (1971-2005)	23.5	7.8	-13.5	10.8	26.7				
Performance Band	1	1	2	2	2				
MORECS (1962-1991)	22.6	9.9	-14.8	11.2	29.4				





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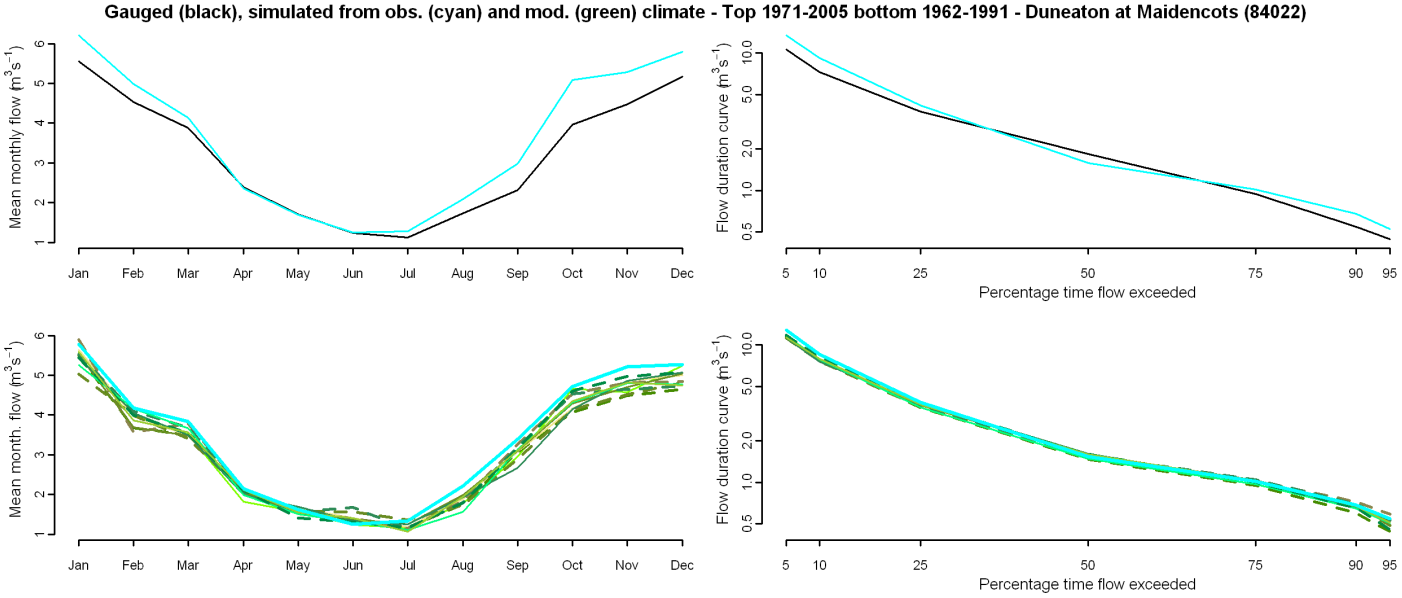
Comparison of gauged and simulated flow (observed and modelled climate)



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

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-5	-7	-4	-2	-6	-7	-6	-4	-7	-4	-6
January	-3	-3	-1	0	-4	-9	-8	-4	-8	-9	-1
April	-13	-6	-5	4	-6	-3	-5	-2	-9	1	-2
July	-12	-8	-13	-10	-7	-8	-5	-16	-16	-15	-21
October	-1	-8	-14	0	-8	-11	-3	-6	-9	-1	-6
Q90	0	-10	-5	7	-4	-7	-5	0	-5	-9	-3
Q75	2	-5	0	2	0	-3	-2	2	-5	-2	0
Q50	2	-4	3	3	3	0	5	2	-3	3	3
Q25	-4	-8	-3	-4	-5	-8	-2	-5	-8	-3	-4
Q5	-12	-11	-11	-8	-11	-11	-12	-9	-10	-9	-13
RP2	-11	-8	-6	-5	-6	-5	-7	-5	-3	-11	-11
RP10	-13	-7	-10	-8	1	-6	-7	0	-7	-6	-1

Climate change graphs for 2050s