Catchment Fact Sheet 43006 Future Flows and Groundwater Levels

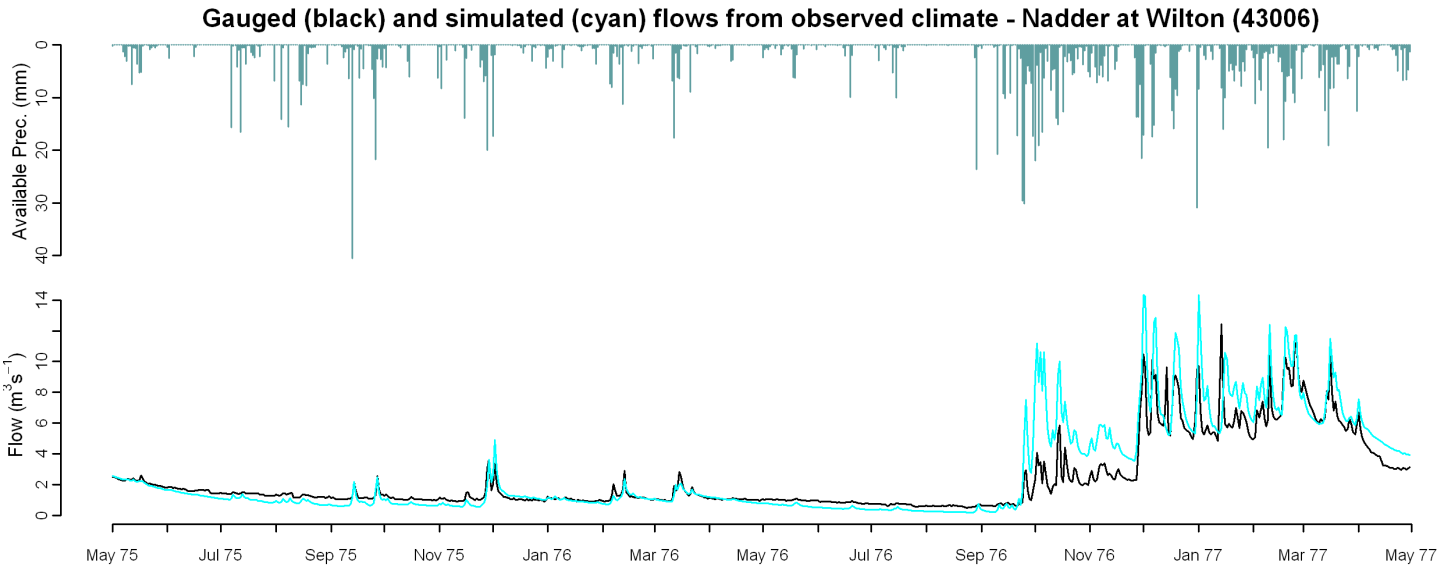
General Information

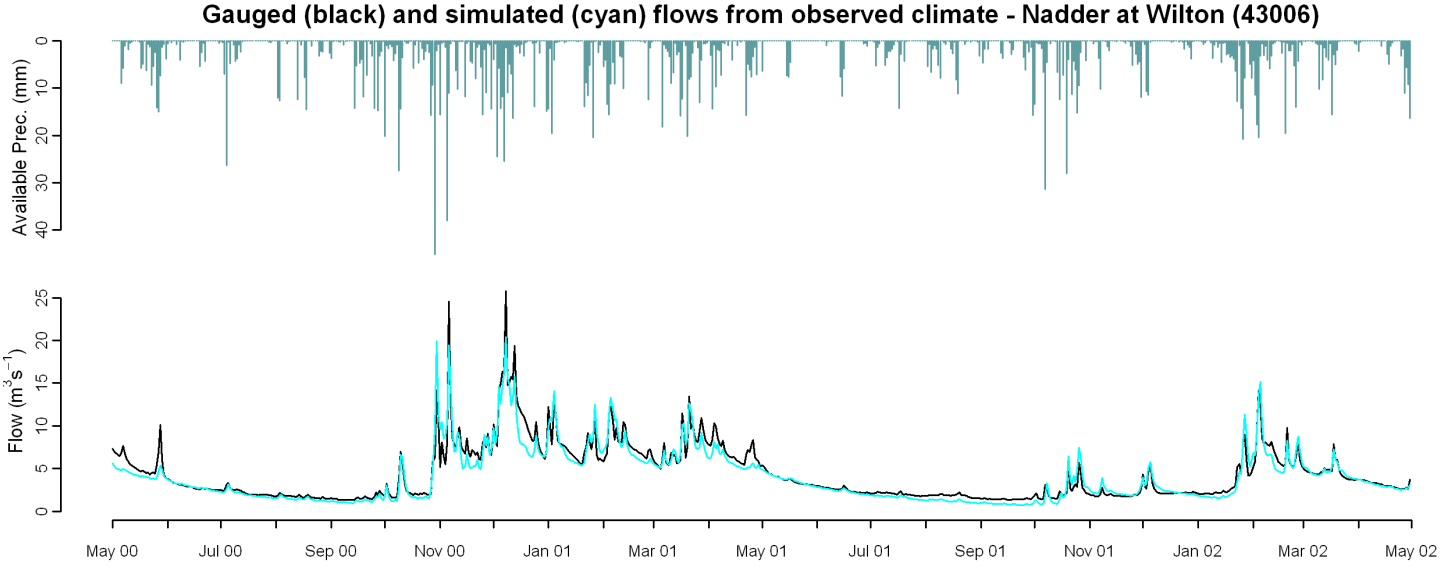
River Name	Nadder	Catchment Area (km2)	221
Station Name	Wilton	SAAR (mm) 61-90	875
Station Number	43006	Mean Annual Rain (mm) 62-91	880
Grid Reference	SU098308	Mean Annual PE (mm) 62-91	593
EA Region	EA-SW	Observed flow record	1966 to 2005

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)	-1.7	2.3	1.3	2.4	-3.0	-6.7	-11.0	-18.2	-21.0	-19.9	-2.9	5.7	5.8	0.86
Performance Band	1	1	1	1	1	1	2	2	2	2	1	1	1	1
MORECS (1962-1991)	-1.9	5.6	1.5	2.6	-1.5	-6.1	-8.9	-17.0	-19.0	-19.4	-2.8	2.3	5.2	0.83

	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20
MORECS (1971-2005)	-29.2	-19.0	-4.1	4.0	3.8				
Performance Band	1	1	1	1	1				
MORECS (1962-1991)	-29.7	-18.4	-4.9	3.4	9.5				





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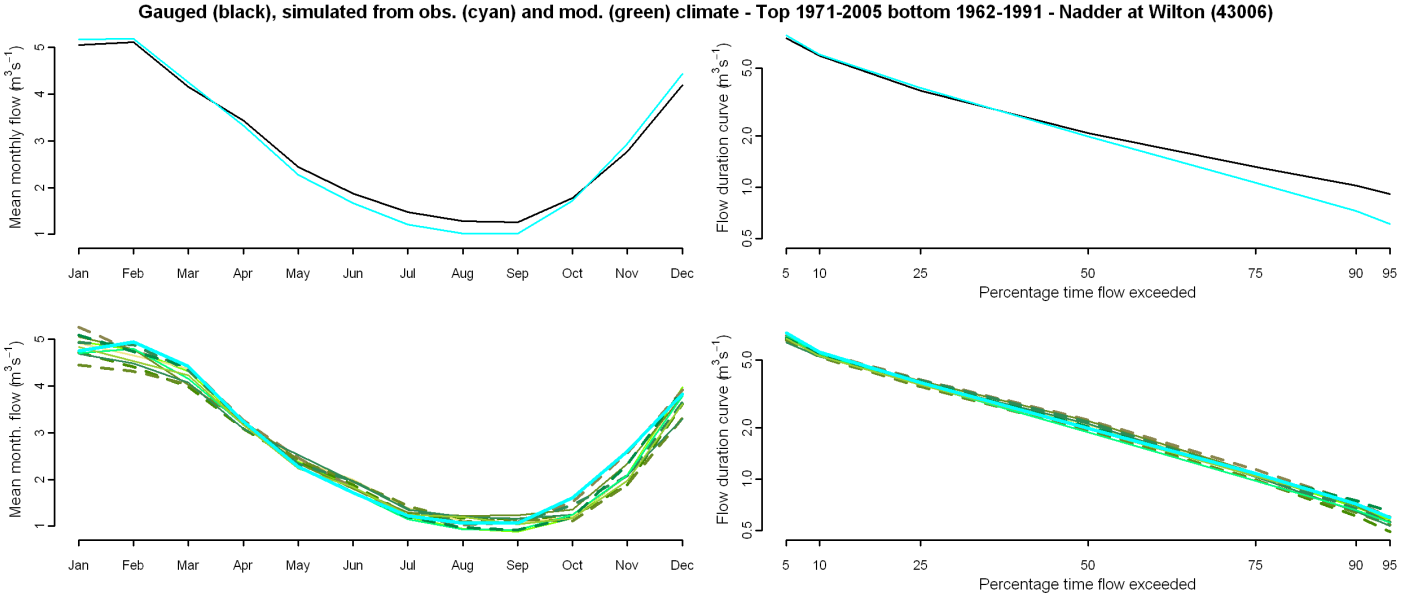
Comparison of gauged and simulated flow (observed and modelled climate)



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

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	0	-5	0	5	-1	-6	-4	2	-5	-2	-3
January	4	-3	5	12	6	-6	-2	6	-1	8	3
April	0	-6	4	5	1	-1	-2	5	1	1	-2
July	4	4	18	6	5	18	13	16	-1	-1	2
October	-24	-24	-24	-1	-24	-30	-21	-11	-22	-26	-25
Q90	-5	-15	-2	6	-8	-13	-9	-5	-9	2	0
Q75	-1	-9	0	9	-4	-11	-4	0	-9	-4	-4
Q50	5	-3	4	15	5	-4	5	10	-6	1	-2
Q25	-1	-5	1	6	0	-7	-1	5	-2	0	-3
Q5	-6	-8	-4	-3	-9	-10	-12	-4	-4	-7	-8
RP2	-2	2	3	0	-4	-6	-4	-1	-3	5	-1
RP10	8	15	-3	2	-4	4	5	-1	3	12	0

Climate change graphs for 2050s