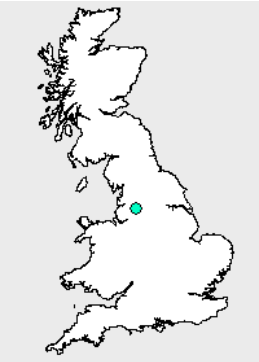
Catchment Fact Sheet 69042 Future Flows and Groundwater Levels

General Information

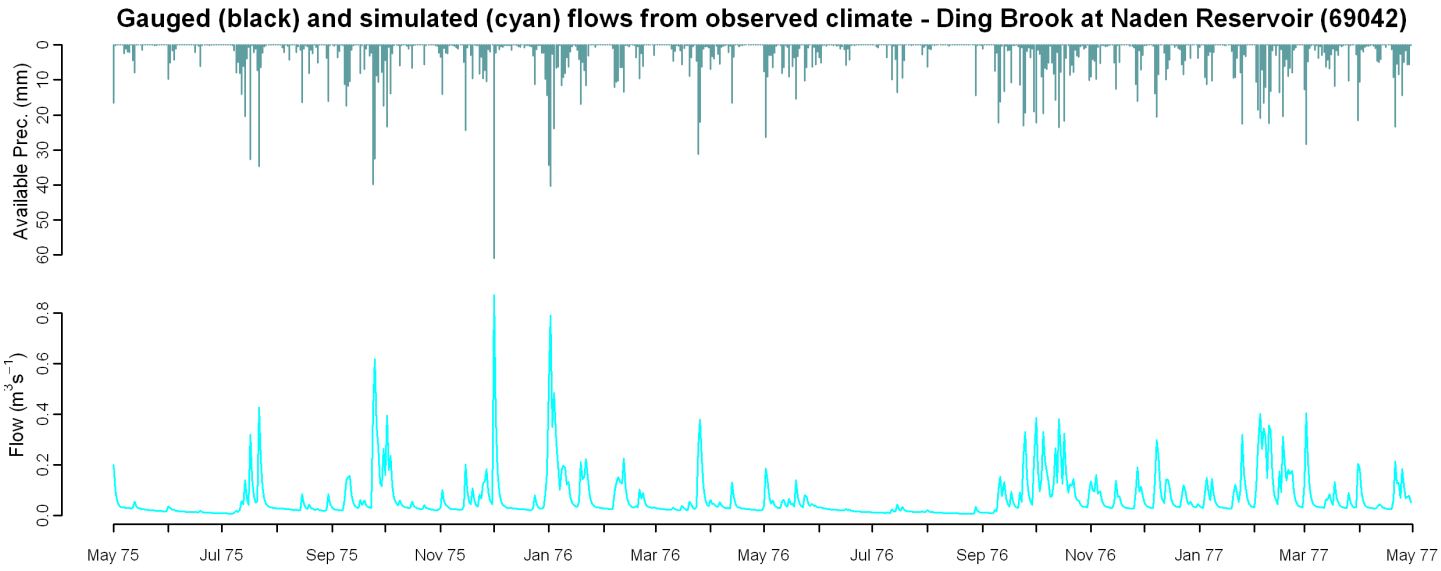
River Name	Ding Brook	Catchment Area (km2)	2
Station Name	Naden Reservoir	SAAR (mm) 61-90	1498
Station Number	69042	Mean Annual Rain (mm) 62-91	1490
Grid Reference	SD850175	Mean Annual PE (mm) 62-91	576
EA Region	EA-NW	Observed flow record	1982 to 2003

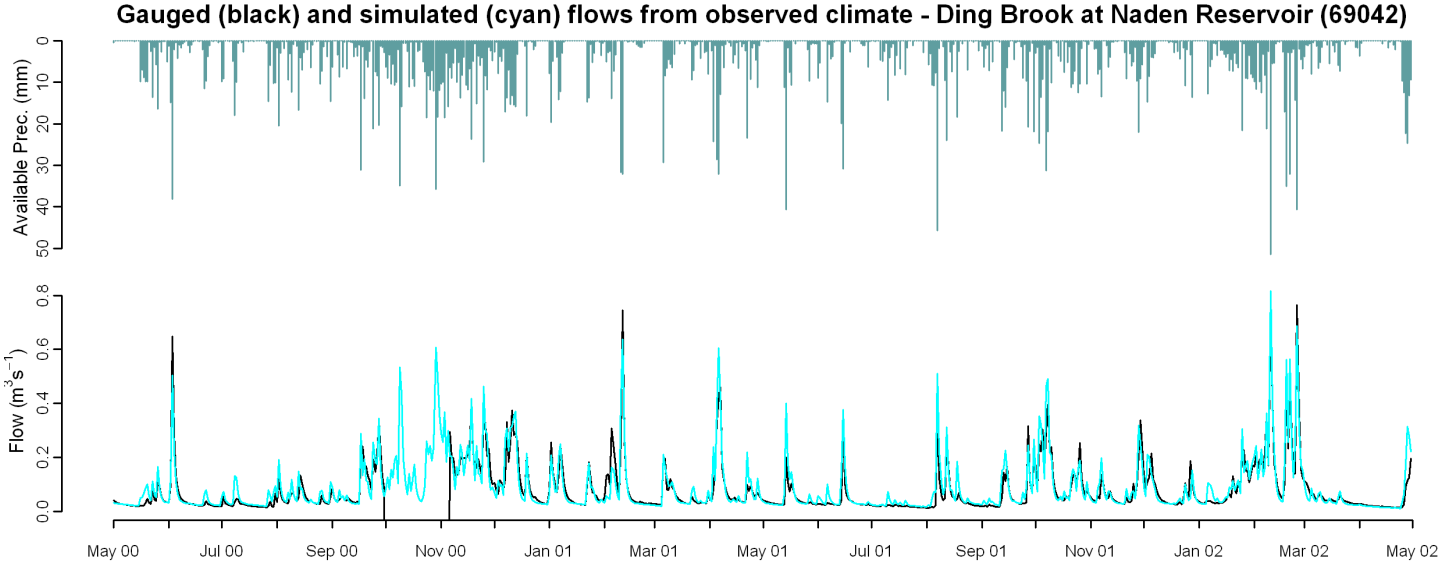


Observed Data Comparison of gauged and simulated flow Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	8.2	-0.3	0.9	-1.3	-2.4	10.6	19.2	24.7	27.8	23.7	16.3	8.8	5.9	0.71
Performance Band	1	1	1	1	1	1	2	2	2	2	2	1	1	1
MORECS (1962-1991)	5.2	-2.9	-7.2	-1.5	-8.6	3.0	34.1	24.0	26.6	25.8	12.7	7.1	2.2	0.64

	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20
MORECS (1971-2005)	43.3	15.4	-5.2	4.0	19.9				
Performance Band	1	1	1	2	2				
MORECS (1962-1991)	53.5	18.9	-12.6	-1.4	23.2				





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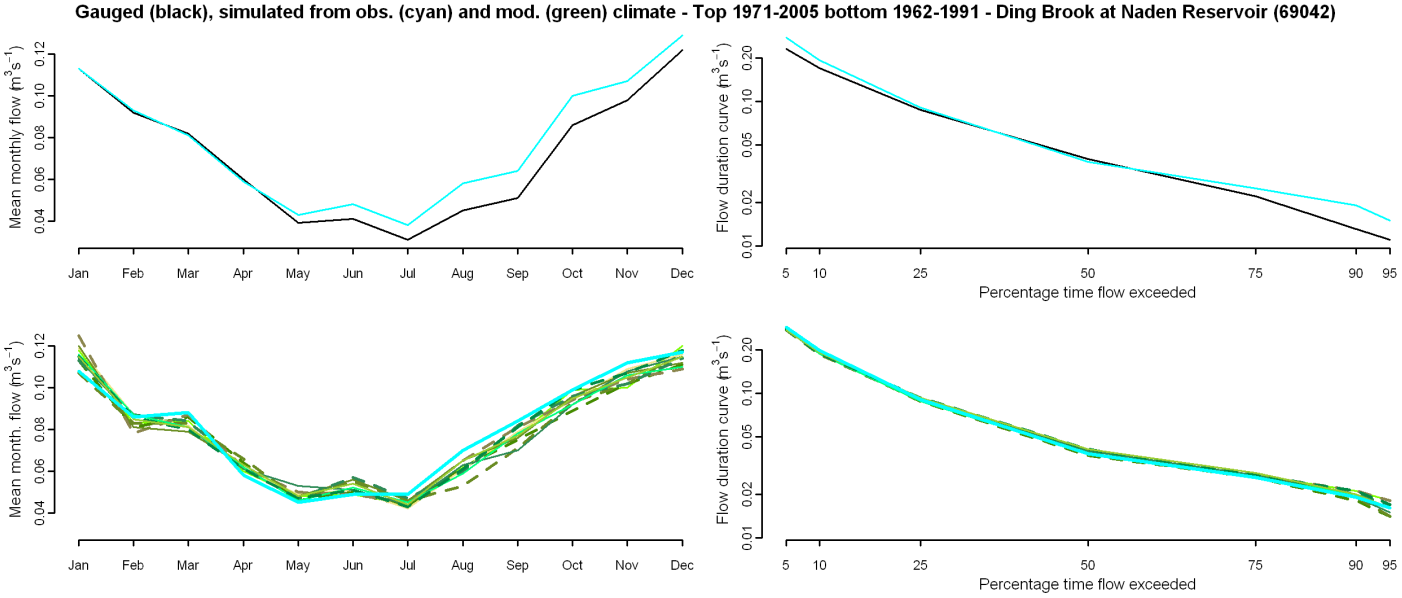
Comparison of gauged and simulated flow (observed and modelled climate)



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

Climate change graphs for 2050s