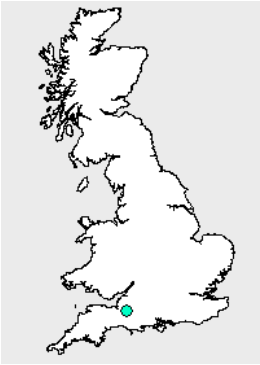
Catchment Fact Sheet 52010 Future Flows and Groundwater Levels

General Information

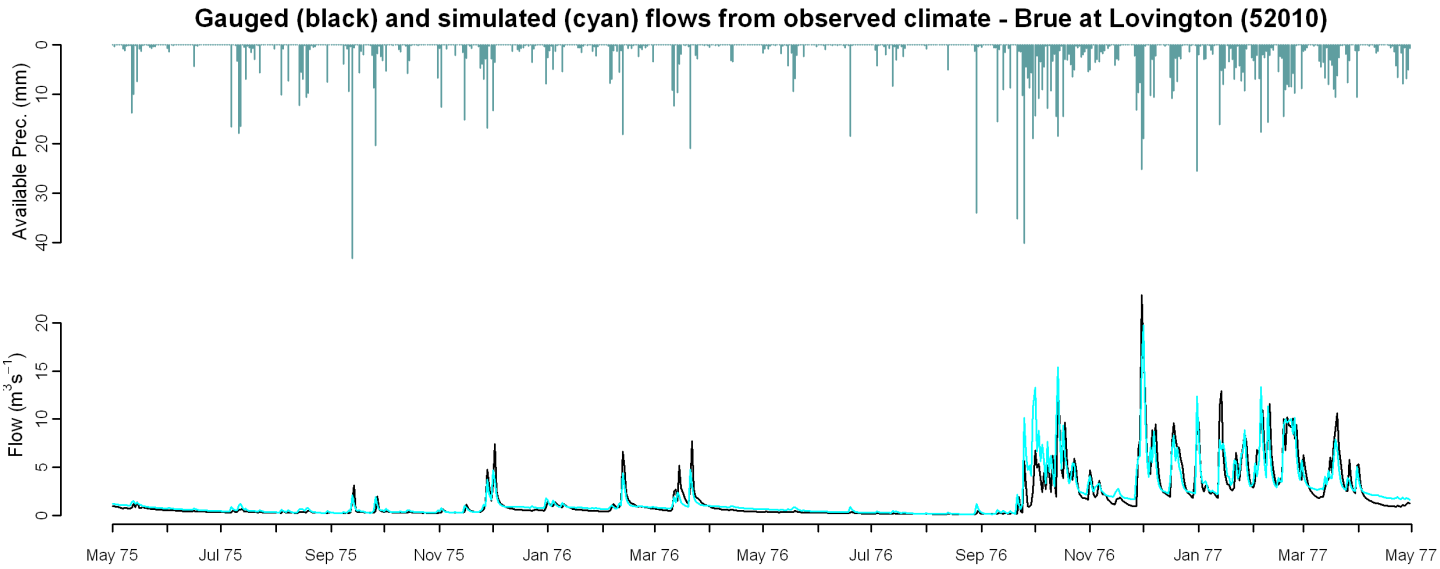
River Name	Brue	Catchment Area (km2)	135
Station Name	Lovington	SAAR (mm) 61-90	866
Station Number	52010	Mean Annual Rain (mm) 62-91	874
Grid Reference	ST590318	Mean Annual PE (mm) 62-91	602
EA Region	EA-SW	Observed flow record	1964 to 2005

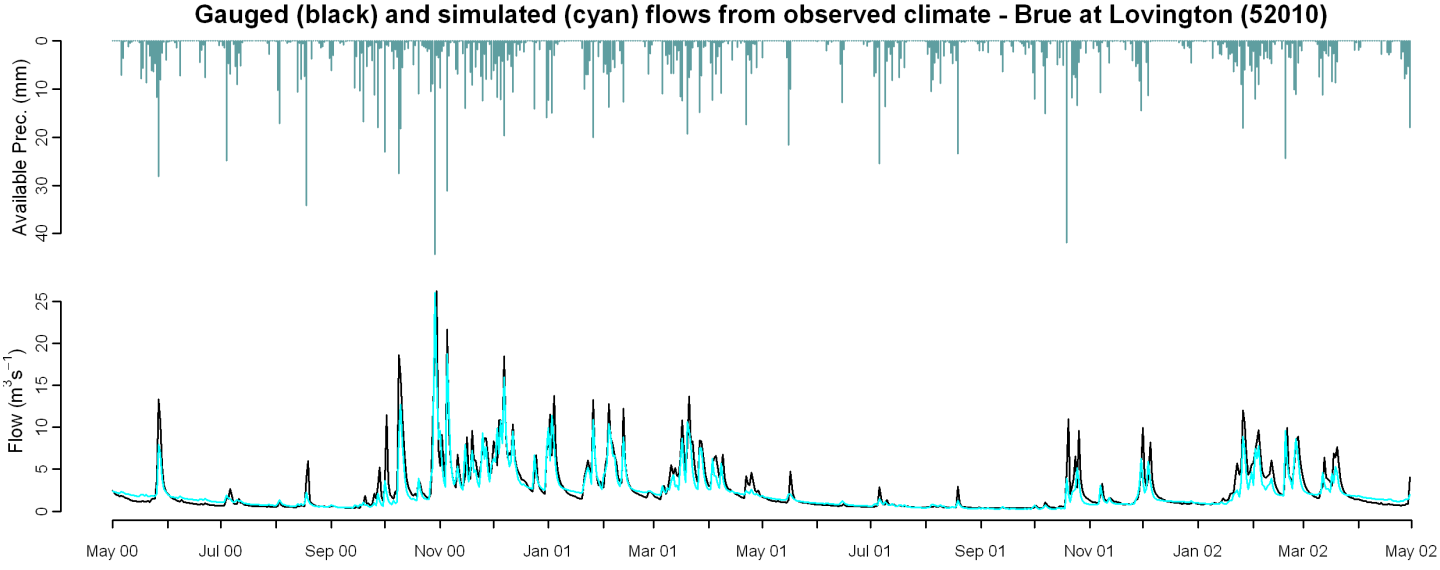


Observed Data Comparison of gauged and simulated flow Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-5.5	-5.2	-2.0	-6.0	-4.3	4.5	1.9	1.3	-10.0	-9.6	-14.6	-9.1	-9.7	0.75
Performance Band	1	1	1	1	1	1	1	1	1	1	2	2	2	1
MORECS (1962-1991)	-5.2	-4.4	-0.1	-5.3	4.2	-0.7	7.9	-13.7	-12.1	-7.3	-8.9	-12.5	-9.2	0.73

	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20
MORECS (1971-2005)	19.1	27.9	17.0	-5.5	-13.7				
Performance Band	1	1	2	2	1				
MORECS (1962-1991)	18.9	30.6	14.8	-5.5	-14.7				





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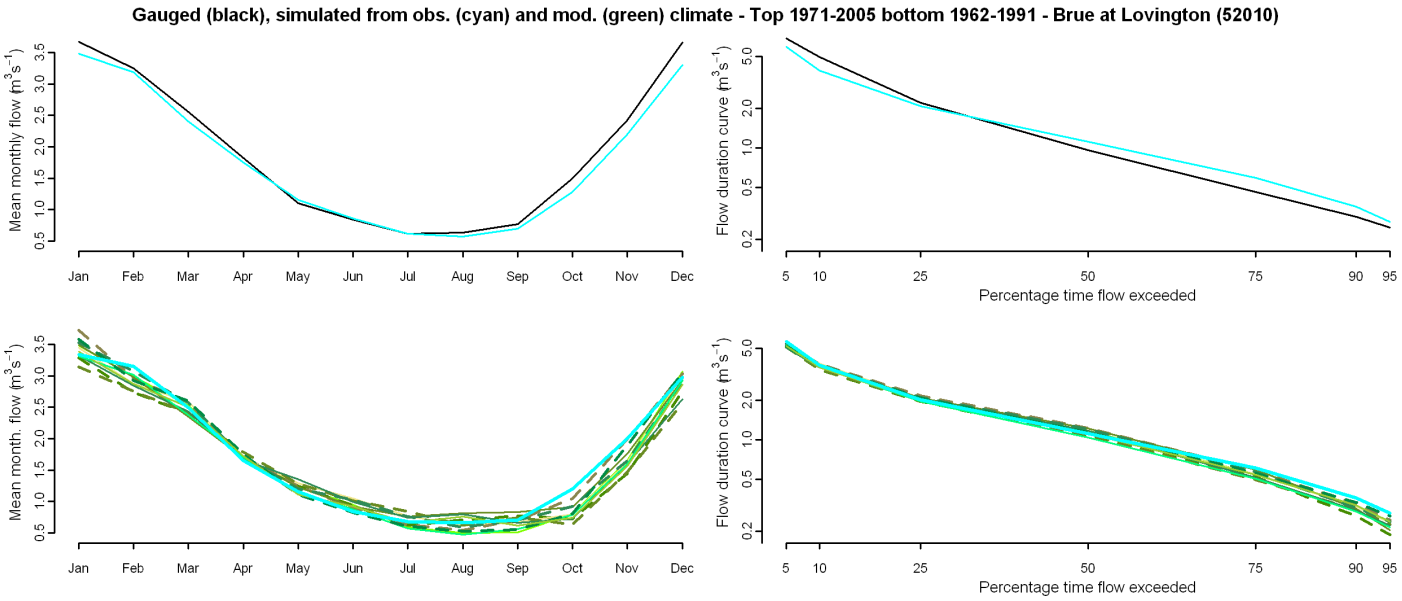
Comparison of gauged and simulated flow (observed and modelled climate)



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

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-2	-6	-1	3	-1	-6	-5	1	-7	-4	-4
January	4	-3	7	13	6	-5	-2	8	1	6	3
April	3	-1	8	8	5	8	4	7	6	6	6
July	-8	-5	15	-4	9	25	12	14	-12	-12	-3
October	-31	-39	-33	-10	-33	-47	-38	-25	-35	-34	-36
Q90	-13	-28	-16	-7	-23	-20	-18	-14	-23	-12	-13
Q75	-11	-17	-11	-1	-10	-20	-15	-6	-19	-13	-12
Q50	6	-4	2	13	4	-3	5	8	-8	0	-2
Q25	1	-4	3	8	1	-4	2	5	-3	1	-2
Q5	-7	-11	-3	-4	-5	-11	-11	-2	-6	-10	-8
RP2	-3	-1	-3	1	-9	-6	-1	3	-5	1	-2
RP10	-11	4	-7	-9	-12	11	12	-2	-4	7	-1

Climate change graphs for 2050s