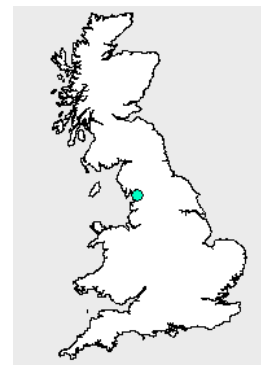


General Information

River Name	Lune	Catchment Area (km2)	983
Station Name	Caton	SAAR (mm) 61-90	1523
Station Number	72004	Mean Annual Rain (mm) 62-91	1550
Grid Reference	SD529653	Mean Annual PE (mm) 62-91	494
EA Region	EA-NW	Observed flow record	1961 to 2006



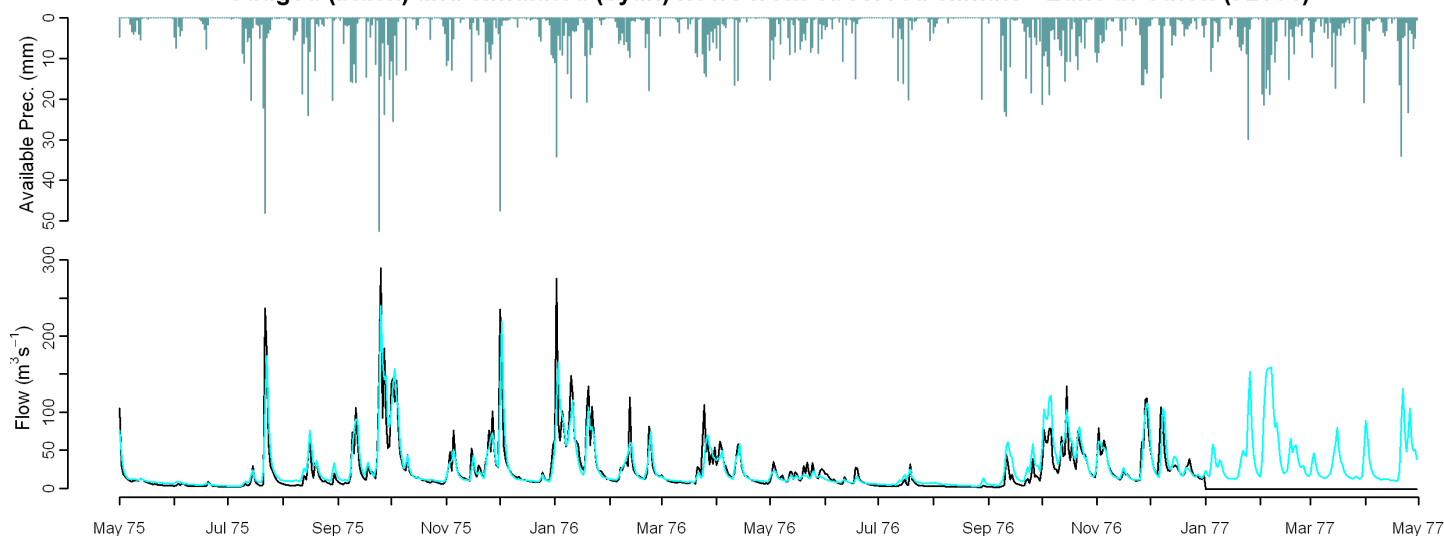
Observed Data

Comparison of gauged and simulated flow

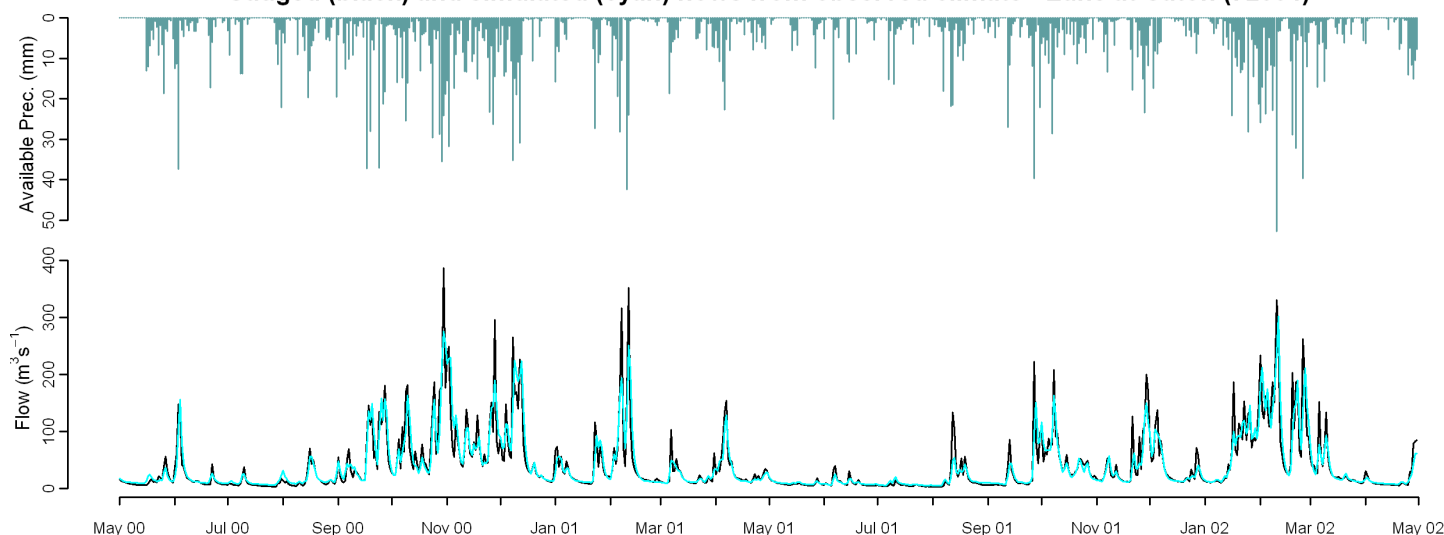
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	2.1	-0.4	3.4	-2.5	-2.6	-1.0	1.5	7.0	7.0	10.1	5.4	1.0	1.6	0.77
Performance Band	1	1	1	1	1	1	1	2	1	2	1	1	1	1
MORECS (1962-1991)	2.3	0.3	1.5	-2.7	-3.9	-4.1	4.2	8.8	7.6	10.1	3.8	1.7	0.0	0.76
	Q90	Q75	Q50	Q25	Q5									
MORECS (1971-2005)	62.8	30.4	0.6	4.3	-2.1									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	62.8	24.4	0.9	4.3	-0.7									

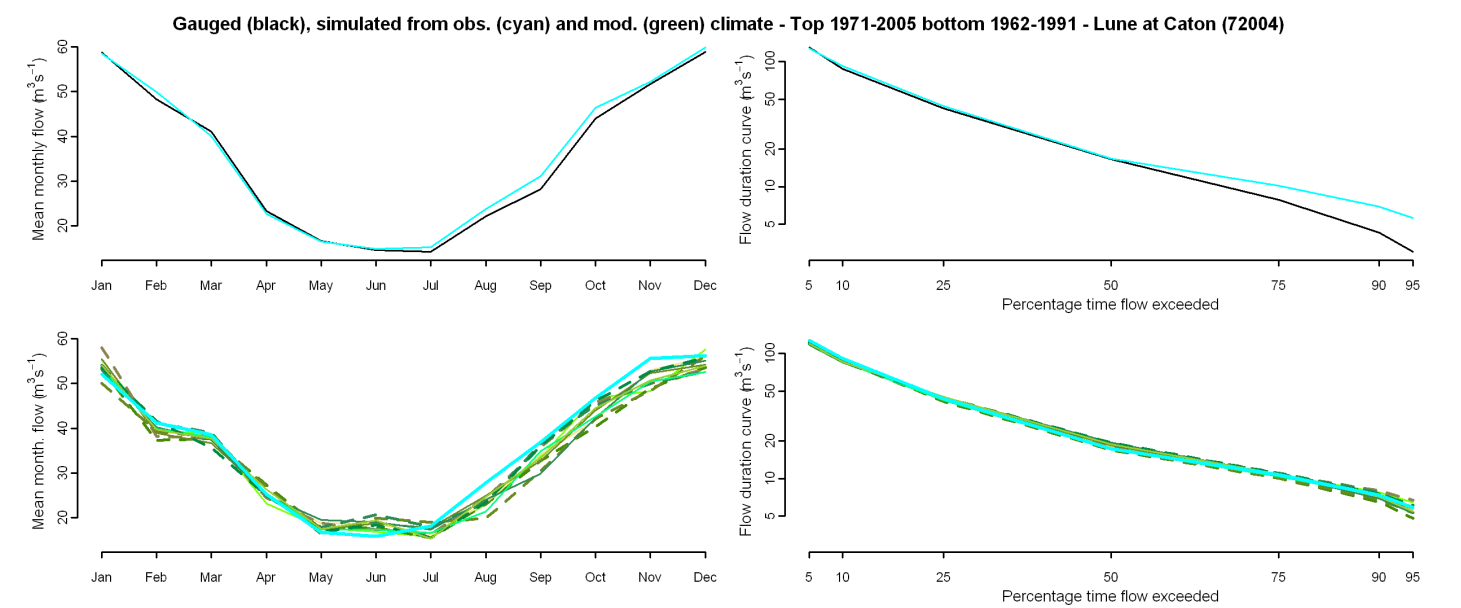
Gauged (black) and simulated (cyan) flows from observed climate - Lune at Caton (72004)



Gauged (black) and simulated (cyan) flows from observed climate - Lune at Caton (72004)



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	-3	-5	-2	1	-1	-3	-4	0	-3	-2	-2
January	6	2	6	9	8	2	-1	7	4	-1	9
April	-7	2	-3	4	0	6	1	2	-4	0	2
July	-12	-8	-3	-3	-2	5	-6	0	-11	-16	-15
October	1	-5	-12	2	-5	-8	1	-4	-7	0	-3
Q90	5	-12	-5	11	-7	-9	-9	5	-3	-1	-3
Q75	1	-6	-2	3	-3	-6	-1	4	-3	0	1
Q50	7	-2	3	8	5	-1	11	10	-1	10	8
Q25	1	-5	1	2	1	0	2	3	-3	1	2
Q5	-7	-3	-5	-3	-5	-6	-9	-2	-7	-6	-6
RP2	1	2	-2	-2	5	1	0	-1	8	4	3
RP10	2	-1	-1	0	-1	-2	0	-2	11	4	0

Climate change graphs for 2050s

