

General Information

River Name	Water of Leith	Catchment Area (km ²)	107
Station Name	Murrayfield	SAAR (mm) 61-90	868
Station Number	19006	Mean Annual Rain (mm) 62-91	867
Grid Reference	NT228732	Mean Annual PE (mm) 62-91	505
EA Region	SEPA-SE	Observed flow record	1963 to 2003



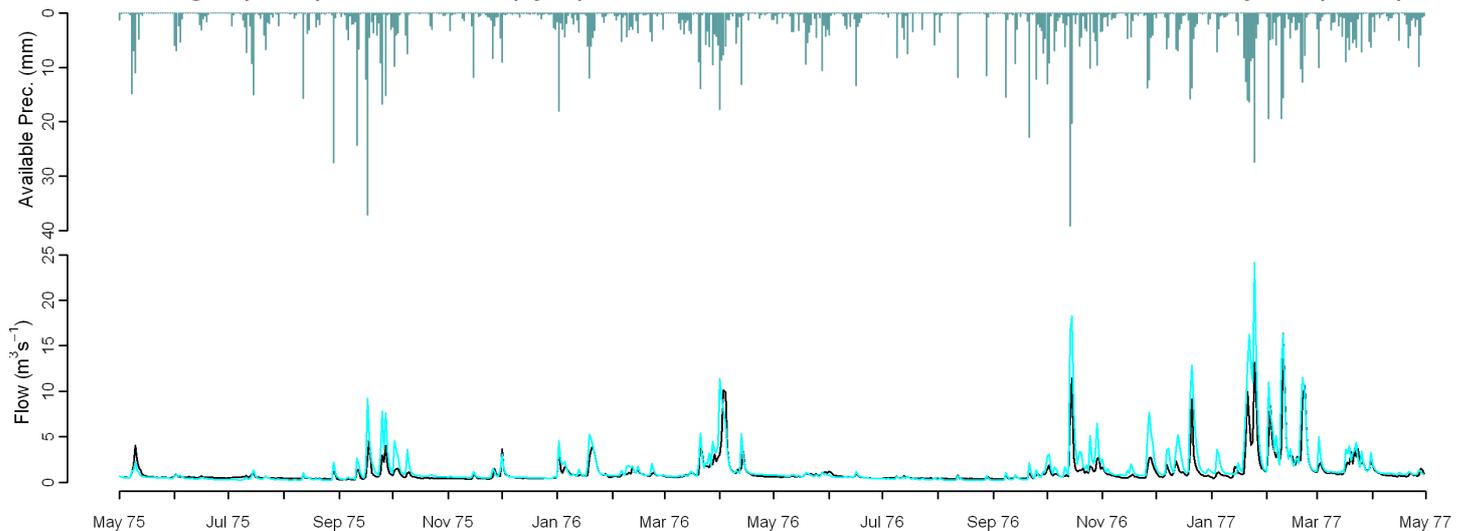
Observed Data

Comparison of gauged and simulated flow

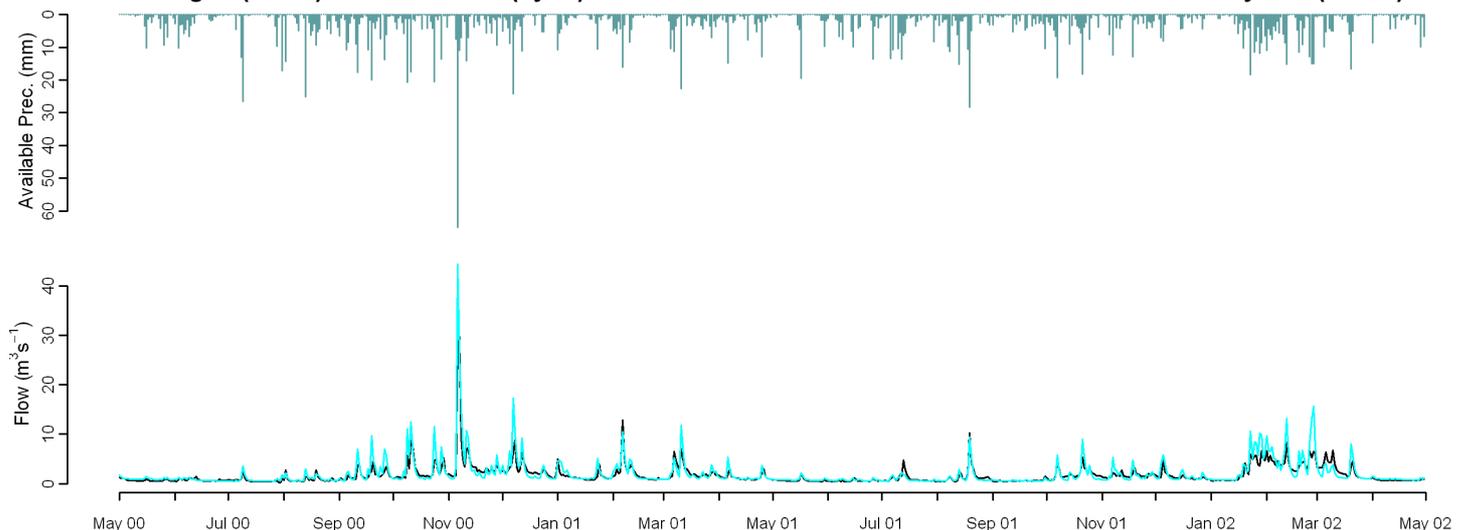
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	13.6	19.1	14.5	9.6	8.5	4.5	2.2	-1.2	3.8	9.8	19.3	19.9	20.1	0.62
Performance Band	2	2	1	1	1	1	1	1	1	2	2	2	2	2
MORECS (1962-1991)	12.7	19.2	13.7	2.3	5.0	2.1	0.7	-0.8	8.5	15.0	20.7	19.8	21.5	0.55
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	-9.4	6.9	2.8	-4.7	36.3									
Performance Band	1	1	2	2	3									
MORECS (1962-1991)	-1.2	10.7	8.0	0.9	26.6									

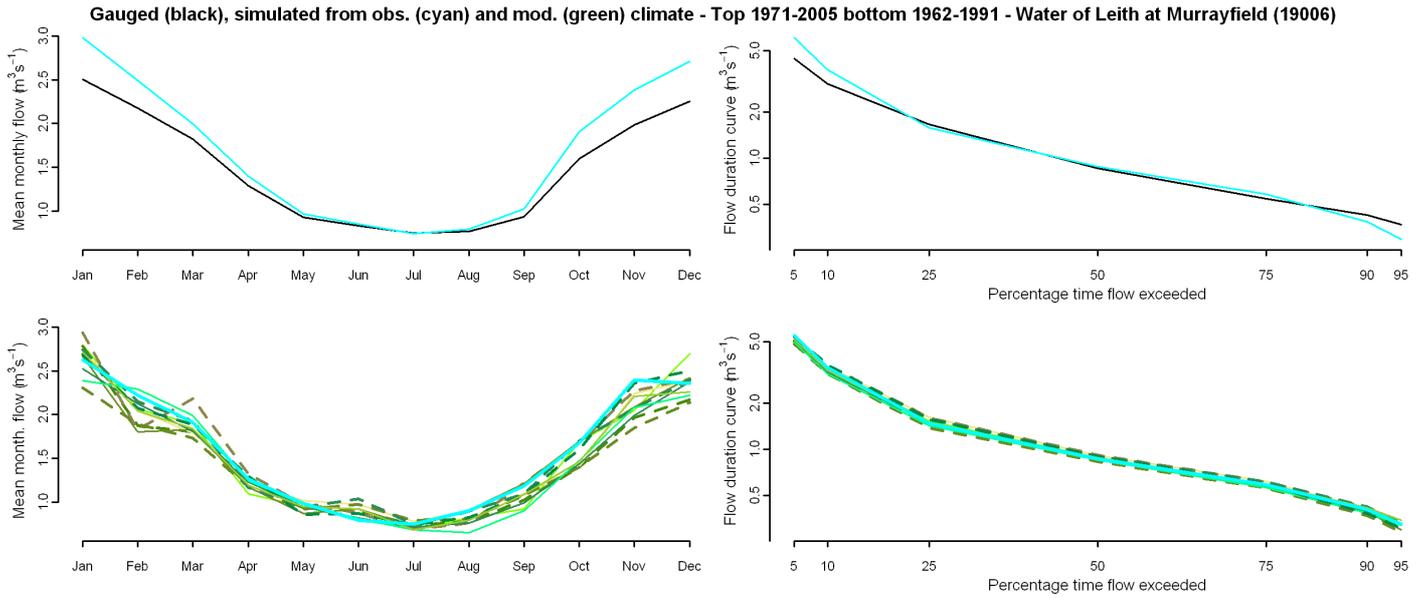
Gauged (black) and simulated (cyan) flows from observed climate - Water of Leith at Murrayfield (19006)



Gauged (black) and simulated (cyan) flows from observed climate - Water of Leith at Murrayfield (19006)



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	-1	-5	0	3	-4	-8	-6	1	-6	0	-4
January	7	3	5	10	2	-6	-6	7	-6	-1	6
April	-12	-5	-1	9	-7	-6	-1	0	-1	3	-6
July	-4	4	7	-5	-4	-6	-2	0	-7	-1	-8
October	0	-13	-17	5	-1	-17	-2	-4	-17	-3	-9
Q90	2	-3	-1	4	-8	-9	-5	4	-6	-8	2
Q75	0	-1	4	5	-4	-5	-4	5	-5	-1	0
Q50	1	-1	4	6	-1	-4	0	4	-2	2	1
Q25	3	-1	9	11	0	-6	2	8	-2	7	1
Q5	-3	-8	-4	0	-6	-10	-8	-1	-9	-2	-8
RP2	-13	-16	-17	-8	-7	-12	-16	-11	-14	-8	-12
RP10	-21	-16	-29	-21	-11	-22	-25	-14	-23	-13	-15

Climate change graphs for 2050s

