

General Information

River Name	Aln	Catchment Area (km2)	205
Station Name	Hawkhill	SAAR (mm) 61-90	757
Station Number	22004	Mean Annual Rain (mm) 62-91	759
Grid Reference	NU211129	Mean Annual PE (mm) 62-91	521
EA Region	EA-NE	Observed flow record	1966 to 1980



Observed Data

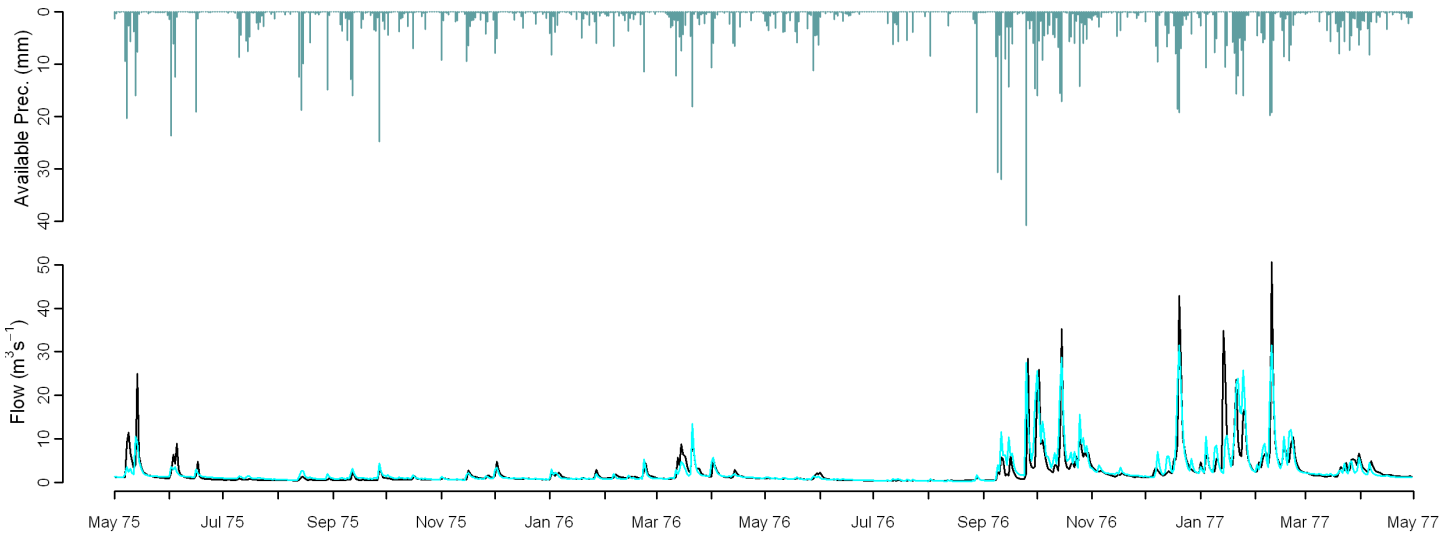
Comparison of gauged and simulated flow

Model used: CERF

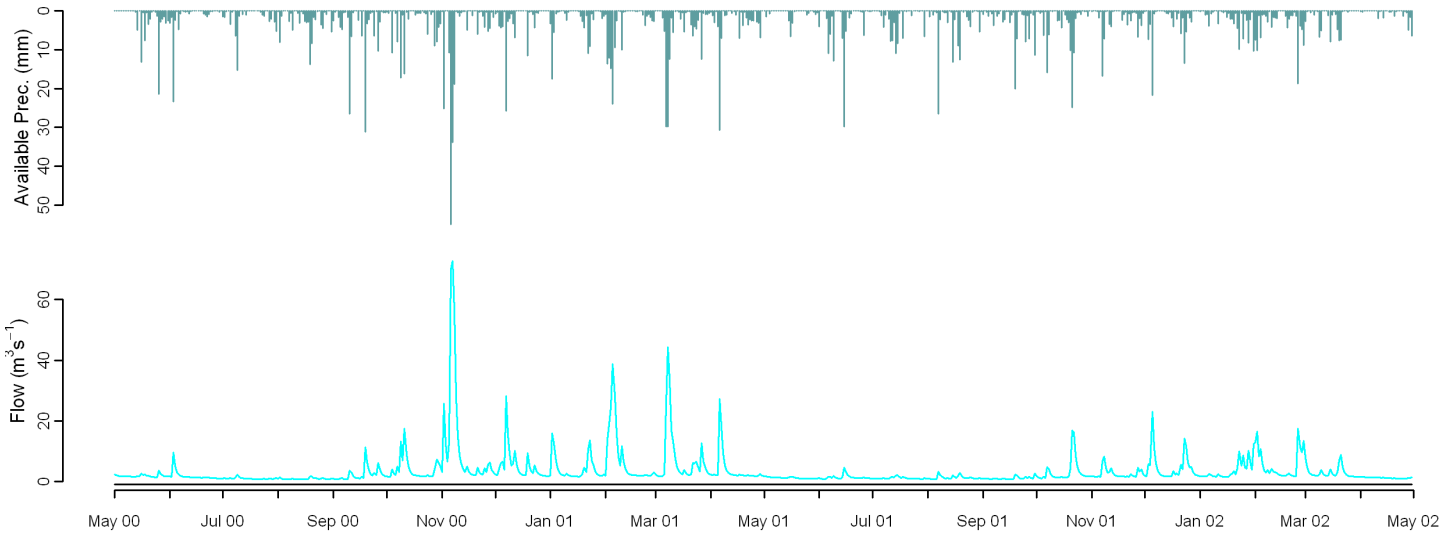
	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	0.6	1.9	-1.4	-12.1	-11.9	-24.4	-9.4	24.9	8.0	45.5	5.5	-5.3	-1.5	0.73
Performance Band	1	1	1	2	1	2	2	1	1	2	1	1	1	1
MORECS (1962-1991)	-2.6	5.1	-1.7	-12.2	-11.7	-25.7	-10.5	3.7	0.5	17.3	-5.1	-1.4	0.5	0.71

	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20
MORECS (1971-2005)	1.3	14.8	11.2	-5.8	5.6				
Performance Band	1	1	1	1	1				
MORECS (1962-1991)	6.2	11.3	5.2	-7.0	-1.8				

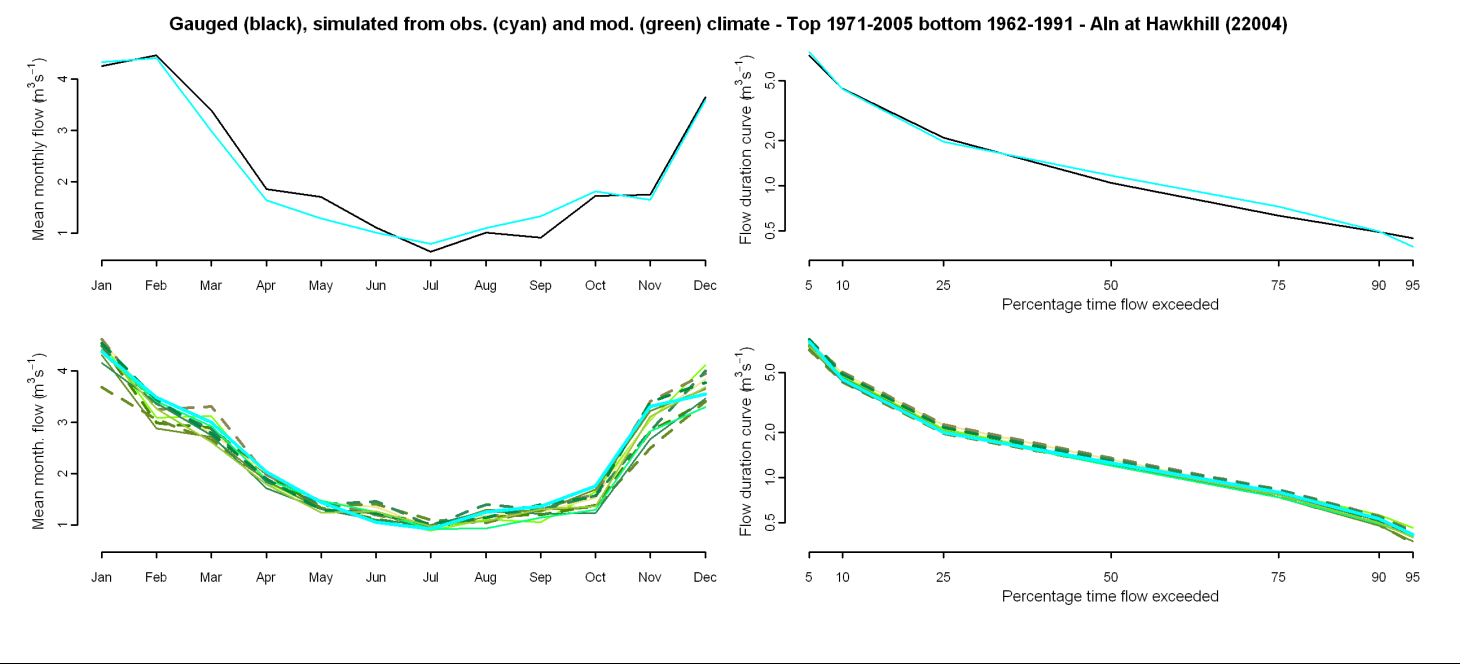
Gauged (black) and simulated (cyan) flows from observed climate - Aln at Hawkhill (22004)



Gauged (black) and simulated (cyan) flows from observed climate - Aln at Hawkhill (22004)



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	-6	2	4	-4	-6	-9	2	-6	1	-7
January	7	-6	5	6	-3	-9	-5	5	2	5	-2
April	-10	-12	3	3	-7	-8	-15	0	-5	-5	-7
July	-1	4	6	6	1	20	8	8	0	9	8
October	-3	-20	-12	-5	-7	-20	-20	-10	-23	-12	-20
Q90	8	-8	-2	5	-13	-9	-5	4	-8	-7	-4
Q75	2	-5	0	5	-10	-6	-4	6	-9	-4	-4
Q50	-1	-1	4	9	-3	-1	-3	7	-5	1	-1
Q25	6	1	11	14	1	1	0	11	1	8	2
Q5	-3	-9	0	4	-4	-9	-9	6	-7	4	-10
RP2	-2	-12	-11	-4	-7	-11	-9	-4	-6	1	1
RP10	-11	-19	-14	-6	-8	-13	-10	-4	-5	-12	4

Climate change graphs for 2050s

