

General Information

River Name	Esk	Catchment Area (km ²)	70
Station Name	Crople How	SAAR (mm) 61-90	2292
Station Number	74007	Mean Annual Rain (mm) 62-91	2345
Grid Reference	SD131978	Mean Annual PE (mm) 62-91	489
EA Region	EA-NW	Observed flow record	1976 to 2005



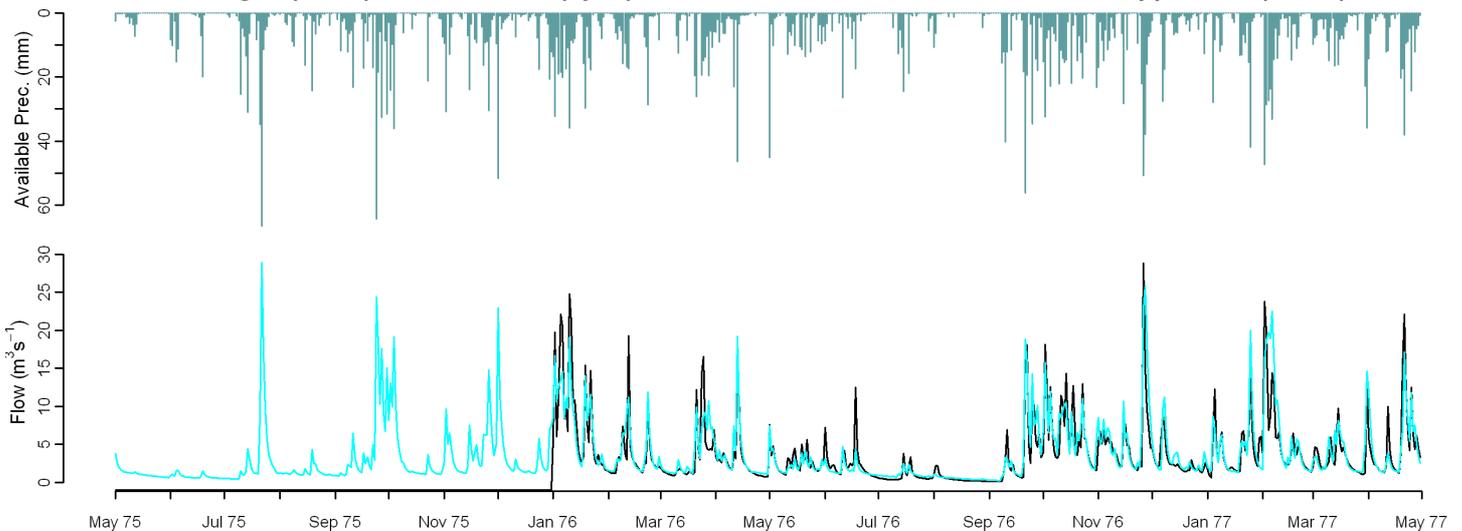
Observed Data

Comparison of gauged and simulated flow

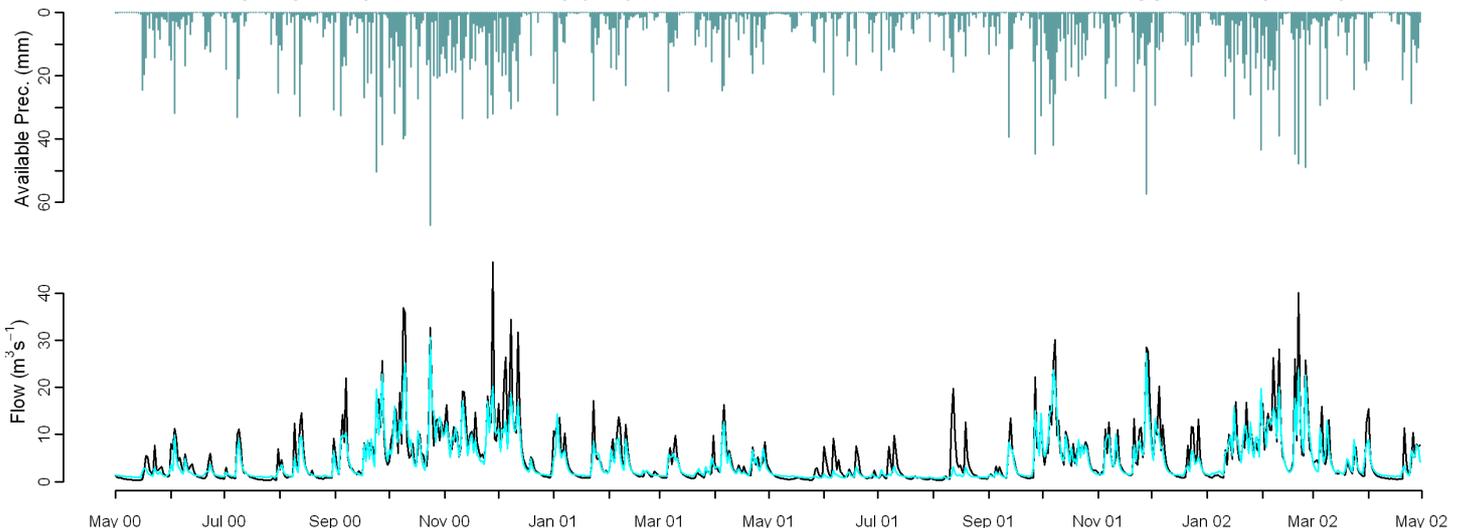
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-4.0	-1.9	1.1	0.4	-2.8	-6.0	-21.2	-17.6	-11.2	-5.5	-1.7	0.7	-1.0	0.76
Performance Band	1	1	1	1	1	1	2	2	1	1	1	1	1	1
MORECS (1962-1991)	0.0	-1.3	8.4	6.2	3.8	2.1	-20.2	-14.6	-9.9	-4.7	0.5	7.9	4.5	0.75
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	61.7	19.7	-6.9	3.2	-6.5									
Performance Band	1	1	1	1	2									
MORECS (1962-1991)	54.9	14.2	-3.7	10.4	-2.4									

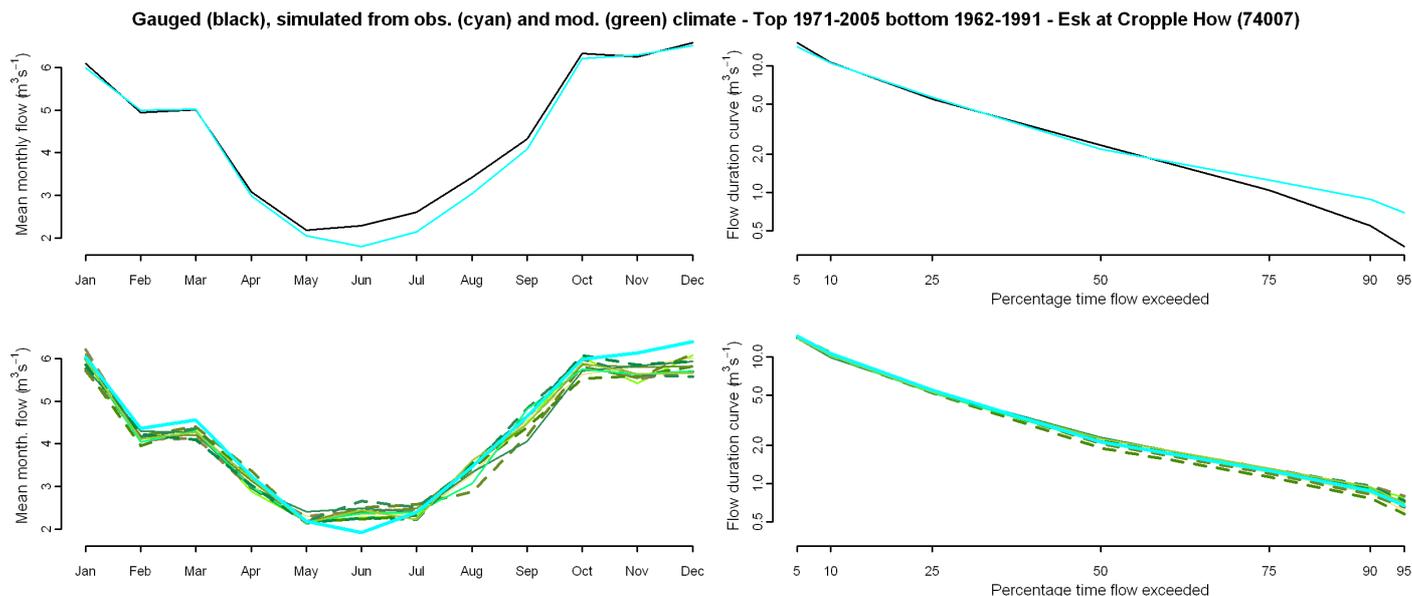
Gauged (black) and simulated (cyan) flows from observed climate - Esk at Crople How (74007)



Gauged (black) and simulated (cyan) flows from observed climate - Esk at Crople How (74007)



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

Climate change graphs for 2050s

