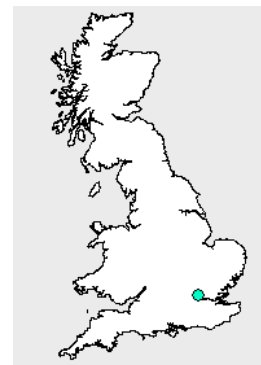


## General Information

River Name	Silk Stream	Catchment Area (km2)	29
Station Name	Colindeep Lane	SAAR (mm) 61-90	686
Station Number	39049	Mean Annual Rain (mm) 62-91	689
Grid Reference	TQ217895	Mean Annual PE (mm) 62-91	678
EA Region	EA-SE	Observed flow record	1973 to 2005



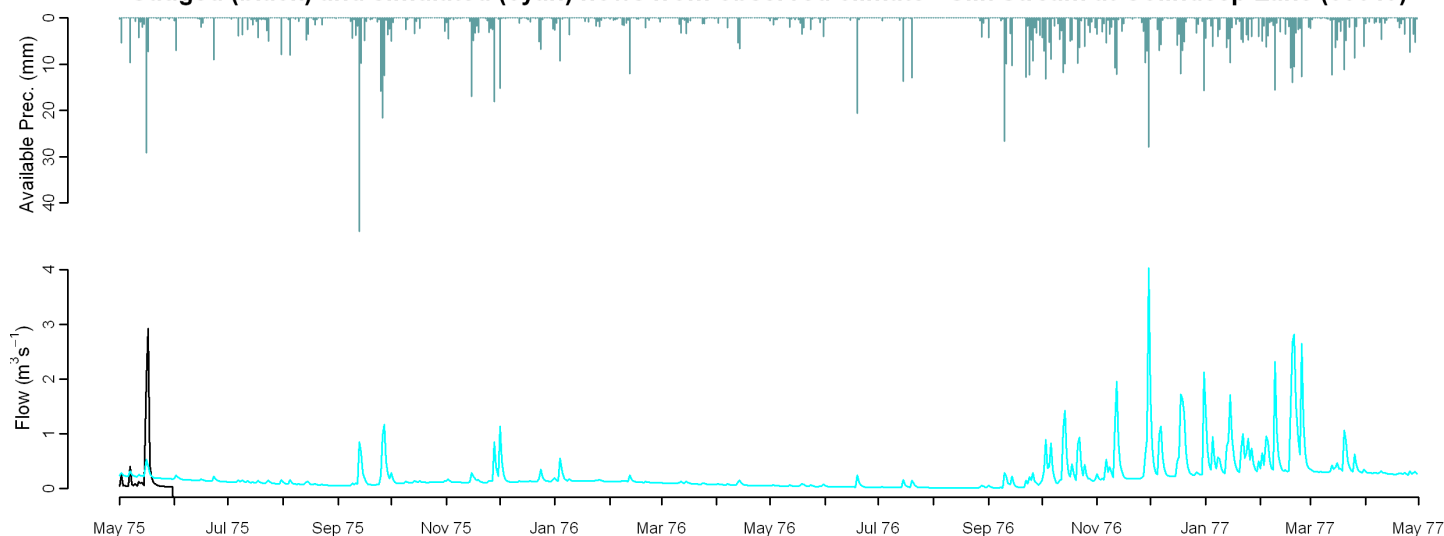
## Observed Data

## Comparison of gauged and simulated flow

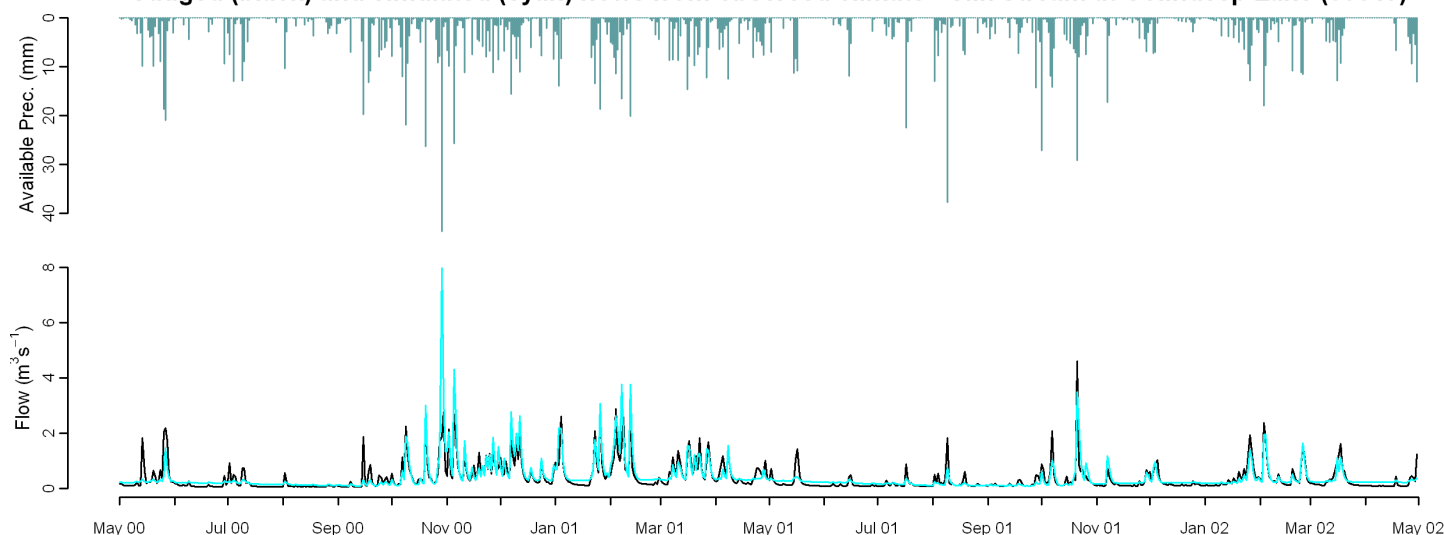
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-5.5	11.6	12.3	-4.5	-12.3	-10.0	-20.1	-21.4	-28.0	-37.6	-8.3	4.0	6.5	0.59
Performance Band	1	2	1	1	2	2	2	2	2	2	2	2	1	2
MORECS (1962-1991)	-9.4	8.4	15.6	-12.7	-6.3	-13.1	-17.4	-20.0	-21.0	-26.1	-14.6	-7.0	7.8	0.58
	Q90	Q75	Q50	Q25	Q5			RP2	RP5	RP10	RP20			
MORECS (1971-2005)	0.3	31.8	40.8	-9.1	-19.4									
Performance Band	1	1	3	2	1									
MORECS (1962-1991)	17.4	57.2	50.2	-7.1	-27.5									

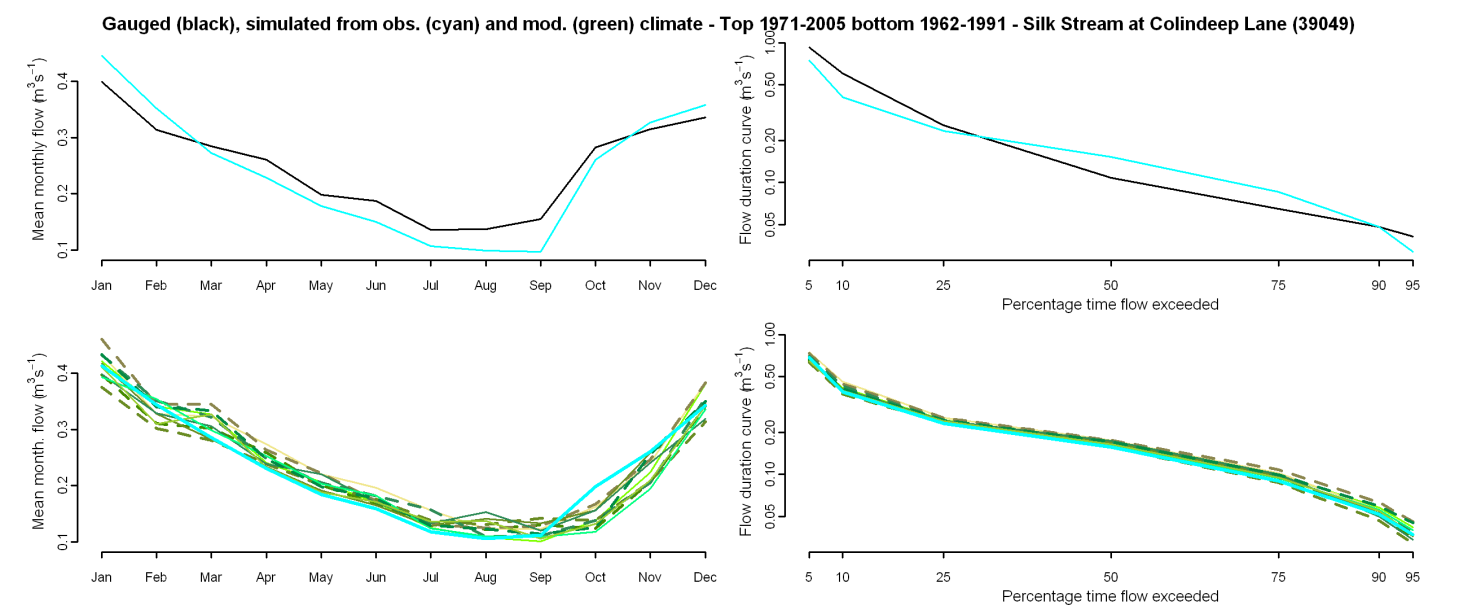
Gauged (black) and simulated (cyan) flows from observed climate - Silk Stream at Colindeep Lane (39049)



Gauged (black) and simulated (cyan) flows from observed climate - Silk Stream at Colindeep Lane (39049)



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	-1	9	10	2	-4	3	5	-2	5	0
January	2	-7	9	11	2	-8	-6	6	-4	8	0
April	6	6	24	18	3	0	8	11	11	8	3
July	9	14	38	15	6	17	18	36	9	12	16
October	-27	-37	-18	-9	-26	-31	-19	-32	-38	-35	-32
Q90	12	-4	7	25	-4	-13	-2	3	6	12	5
Q75	10	3	13	22	4	-8	11	9	2	9	5
Q50	6	2	12	13	5	-2	10	9	3	8	4
Q25	6	-2	10	11	3	-1	4	7	1	5	2
Q5	-2	-7	8	8	-1	-10	0	5	-3	-1	-8
RP2	-15	-13	1	-7	-8	1	-10	-8	-9	6	-6
RP10	-17	13	13	-6	1	11	0	-7	-7	10	3

Climate change graphs for 2050s

