Catchment Fact Sheet   73006   Future Flows and Groundwater Levels

General Information

| River Name	Cunsey Beck	Catchment Area (km2)	19
Station Name	Eel House Bridge	SAAR (mm) 61-90	1893
Station Number	73006	Mean Annual Rain (mm) 62-91	1909
Grid Reference	SD369940	Mean Annual PE (mm) 62-91	489
EA Region	EA-NW	Observed flow record	1976 to 2005
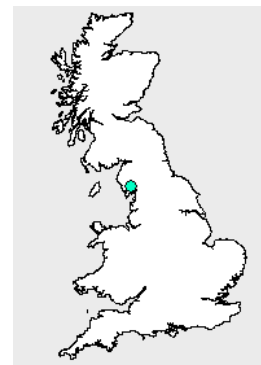
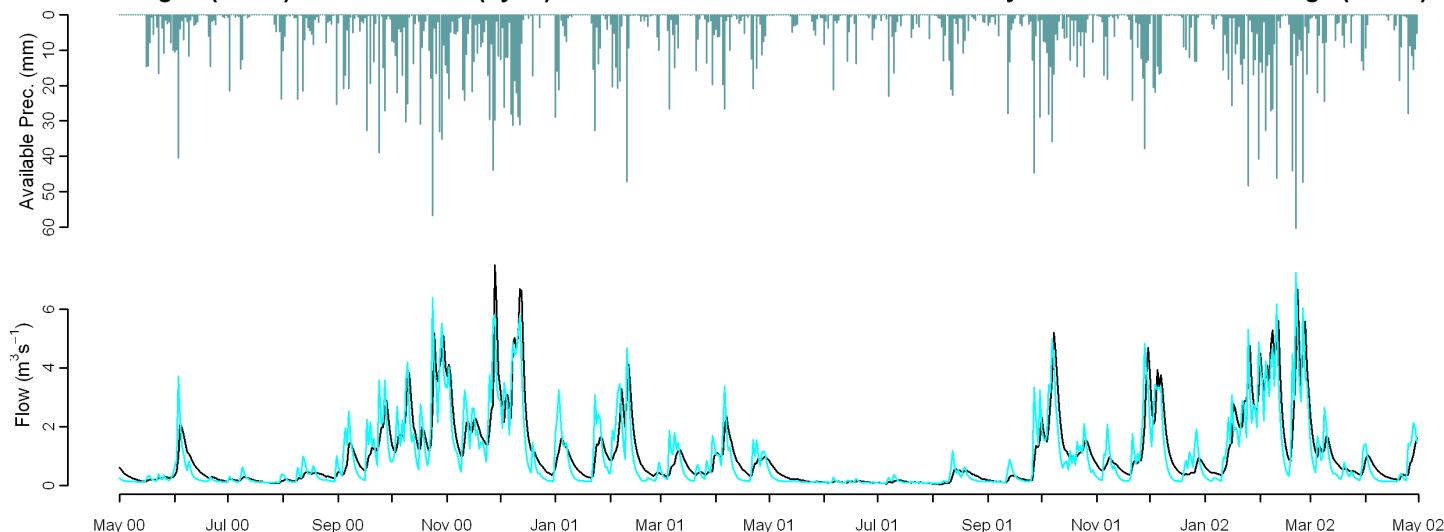## Observed Data   Comparison of gauged and simulated flow   Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-2.2	-0.6	-3.5	-2.6	-9.9	-11.4	-0.5	8.8	10.8	11.9	2.6	-2.8	-3.0	0.63
Performance Band	1	1	2	1	2	2	1	1	2	2	1	1	1	2
MORECS (1962-1991)	2.9	3.6	4.7	4.4	-2.2	7.3	12.7	14.5	20.9	17.5	6.4	-1.1	2.3	0.61

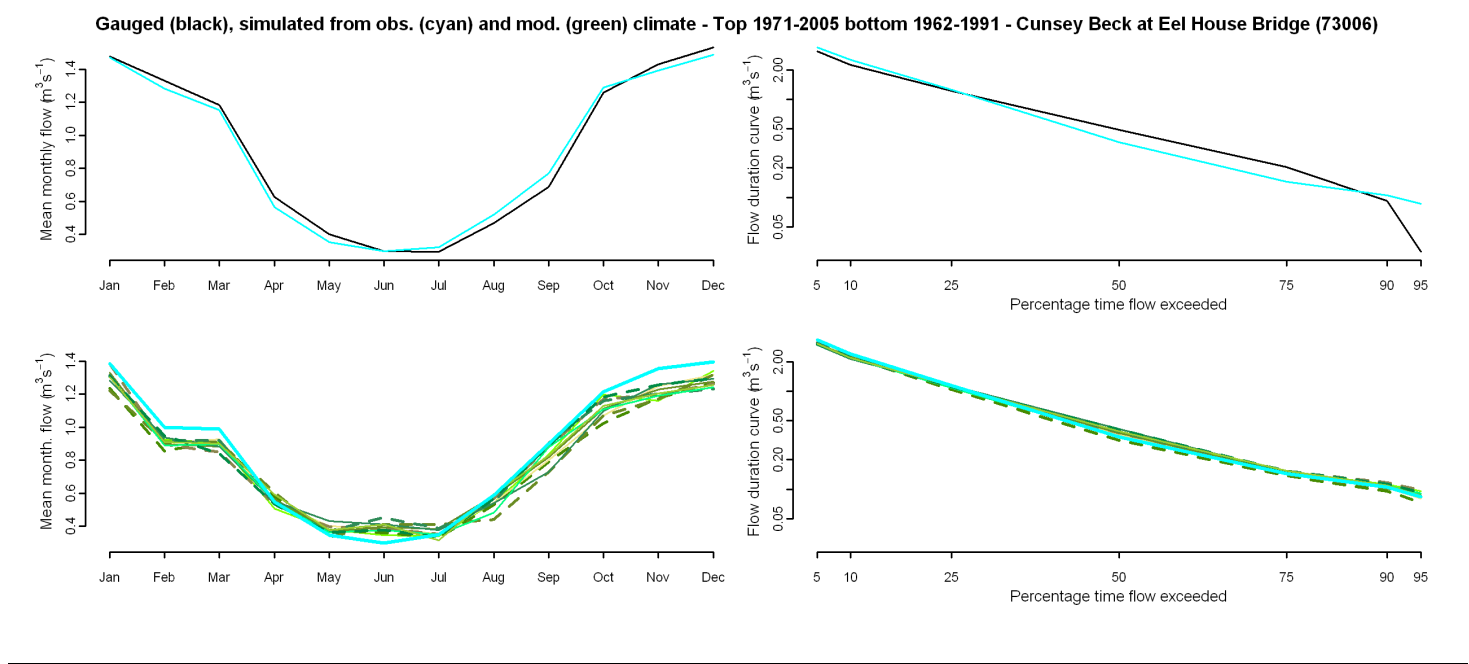|	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20
MORECS (1971-2005)	14.1	-29.6	-25.3	2.7	9.5				
Performance Band	1	1	1	1	1				
MORECS (1962-1991)	135.1	-18.7	-15.3	10.2	12.1				

Gauged (black) and simulated (cyan) flows from observed climate - Cunsey Beck at Eel House Bridge (73006)
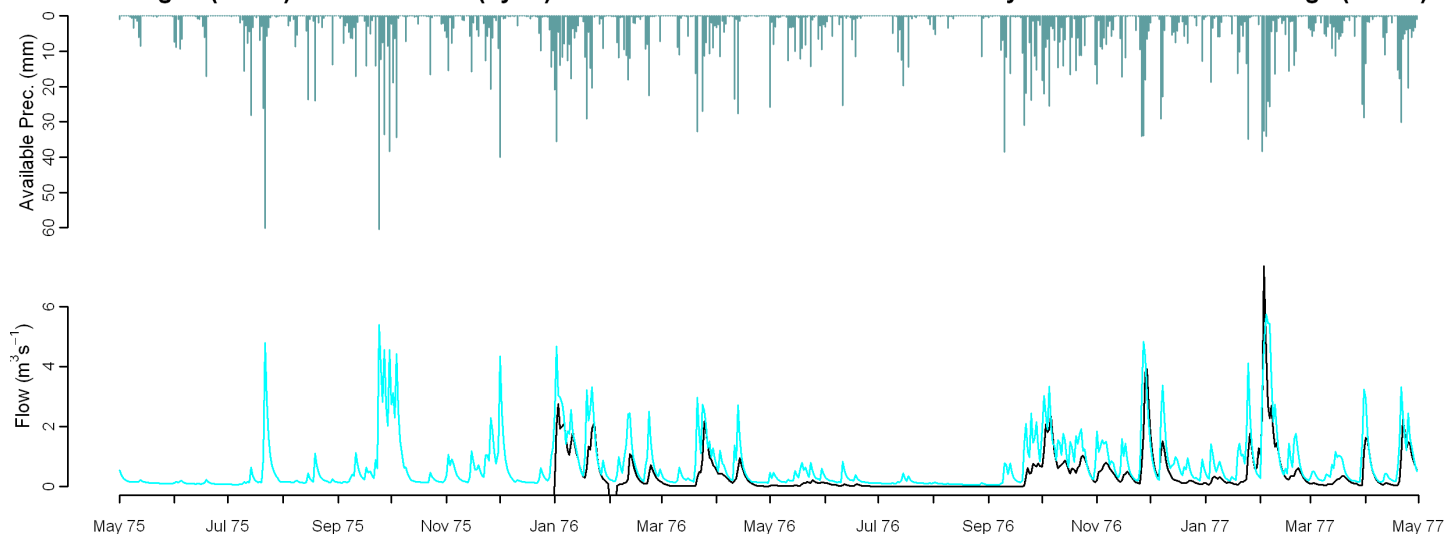
Gauged (black) and simulated (cyan) flows from observed climate - Cunsey Beck at Eel House Bridge (73006)

Comparison of gauged and simulated flow (observed and modelled climate)

Gauged (black), simulated from obs. (cyan) and mod. (green) climate - Top 1971-2005 bottom 1962-1991 - Cunsey Beck at Eel House Bridge (73006)

Percentage difference between flow simulated from observed climate and Future Flows Climate

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-4	-7	-4	0	-4	-6	-5	-2	-5	-3	-4
January	-5	-9	-5	-3	-4	-6	-10	-3	-5	-9	-1
April	-7	1	-3	5	1	8	3	0	-6	-1	4
July	-2	1	7	9	10	14	7	11	-3	-8	-10
October	0	-7	-14	0	-8	-9	0	-6	-7	-1	-5
Q90	8	-9	-2	13	0	-4	-3	7	3	5	4
Q75	6	-4	0	9	0	-2	4	7	1	4	7
Q50	12	-7	4	13	7	-2	20	14	1	15	13
Q25	-3	-9	-2	-2	-4	-4	-2	-1	-6	-4	-2
Q5	-12	-7	-9	-6	-9	-10	-12	-7	-9	-10	-10
RP2	-2	-1	-2	2	-1	-6	-4	-3	1	3	-3
RP10	-2	-6	-3	1	-4	-9	-7	-6	-7	-2	-9

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Cunsey Beck at Eel House Bridge (73006)