

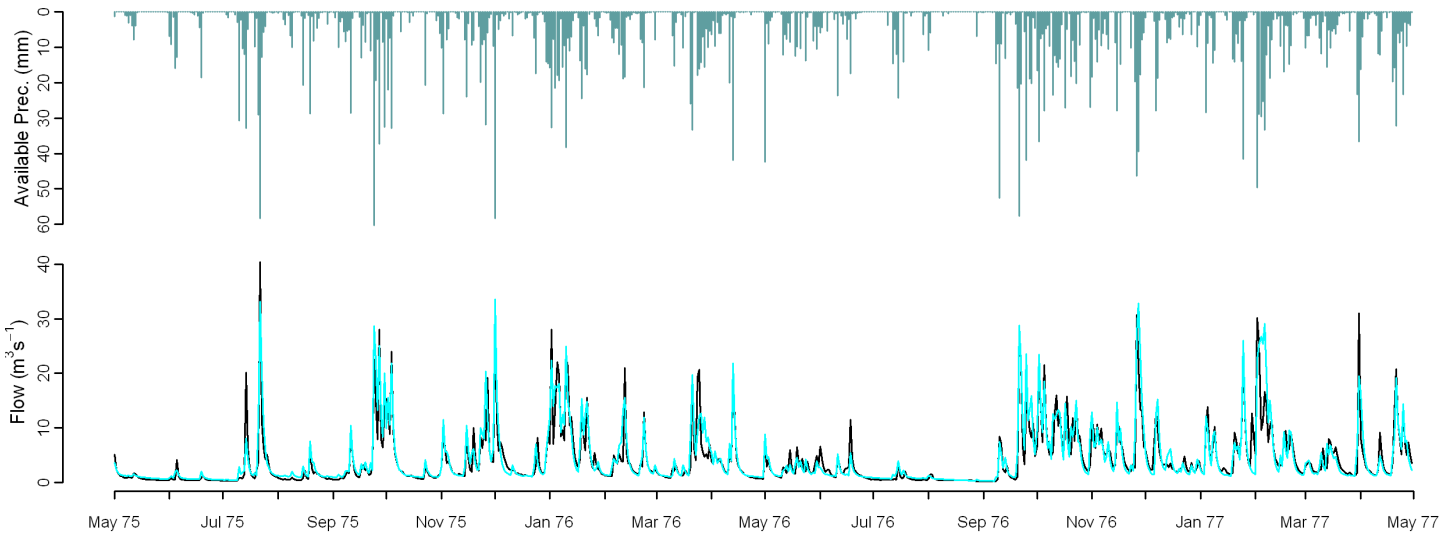
General Information

River Name	Duddon	Catchment Area (km2)	86
Station Name	Duddon Hall	SAAR (mm) 61-90	2268
Station Number	74001	Mean Annual Rain (mm) 62-91	2294
Grid Reference	SD196896	Mean Annual PE (mm) 62-91	489
EA Region	EA-NW	Observed flow record	1968 to 2005

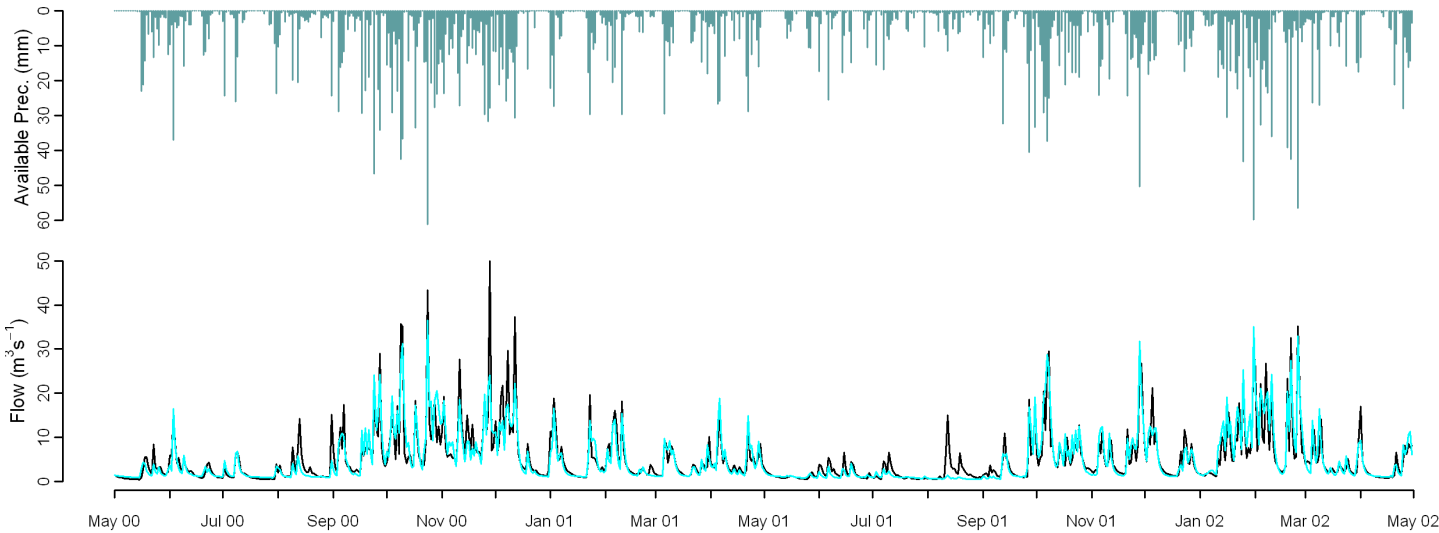


Observed Data	Comparison of gauged and simulated flow										Model used: CERF			
	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	3.4	6.1	7.6	5.3	-0.3	-7.2	-8.9	-5.1	-3.4	3.5	6.0	8.1	6.3	0.80
Performance Band	1	1	1	1	1	2	2	1	1	1	1	1	1	1
MORECS (1962-1991)	3.5	4.1	8.2	7.3	2.7	-7.1	-10.6	-4.3	-1.0	3.3	2.1	9.5	5.9	0.81
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	41.1	7.0	-10.9	11.7	8.9									
Performance Band	1	1	2	1	1									
MORECS (1962-1991)	44.5	9.9	-9.1	8.1	7.0									

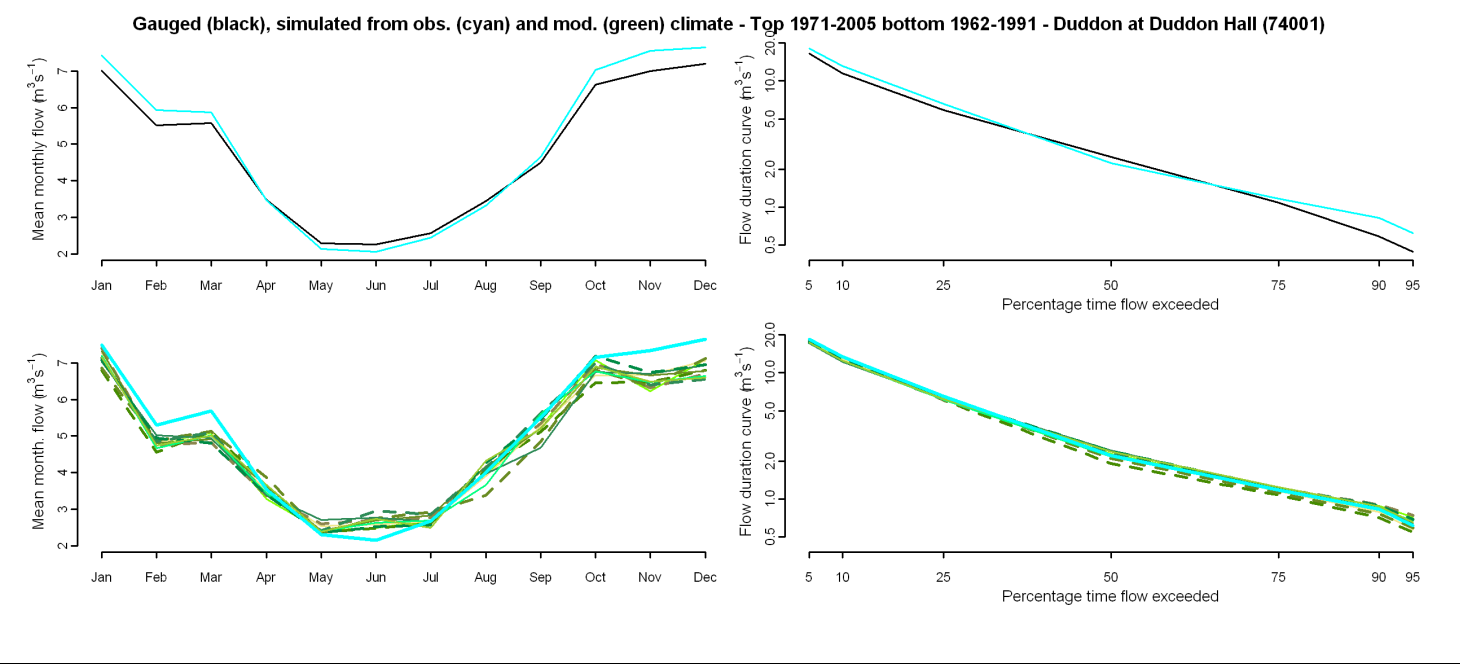
Gauged (black) and simulated (cyan) flows from observed climate - Duddon at Duddon Hall (74001)



Gauged (black) and simulated (cyan) flows from observed climate - Duddon at Duddon Hall (74001)



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

Climate change graphs for 2050s

