

General Information

River Name	Brathay	Catchment Area (km ²)	57
Station Name	Jeffy Knotts	SAAR (mm) 61-90	2766
Station Number	73014	Mean Annual Rain (mm) 62-91	2847
Grid Reference	NY360034	Mean Annual PE (mm) 62-91	489
EA Region	EA-NW	Observed flow record	1976 to 2005



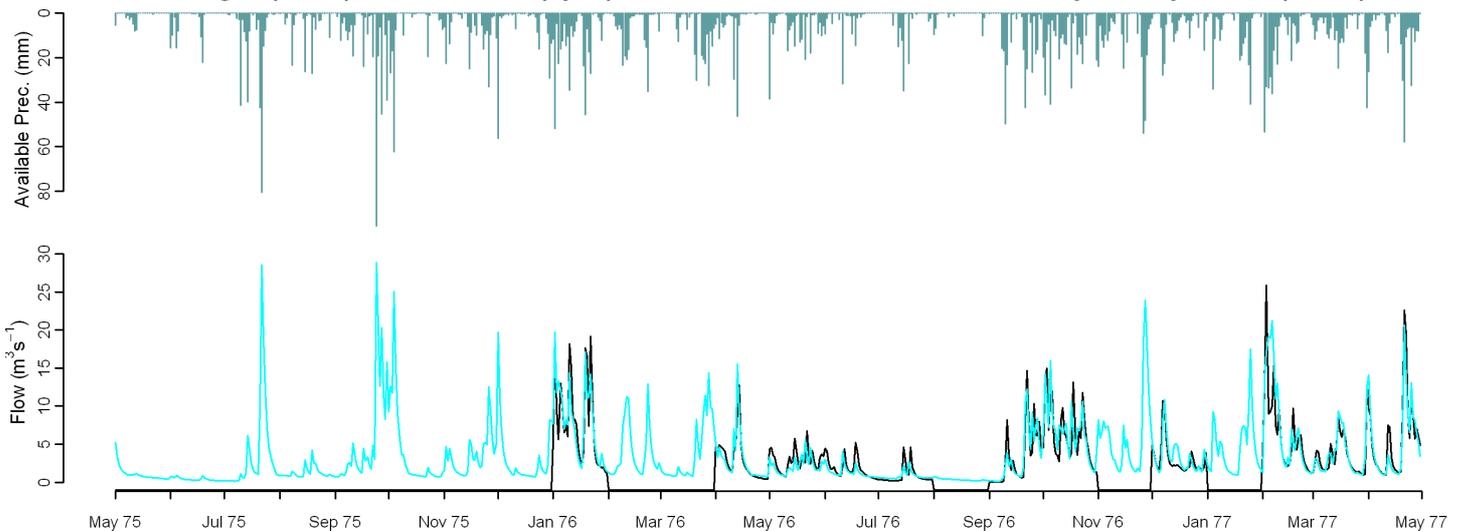
Observed Data

Comparison of gauged and simulated flow

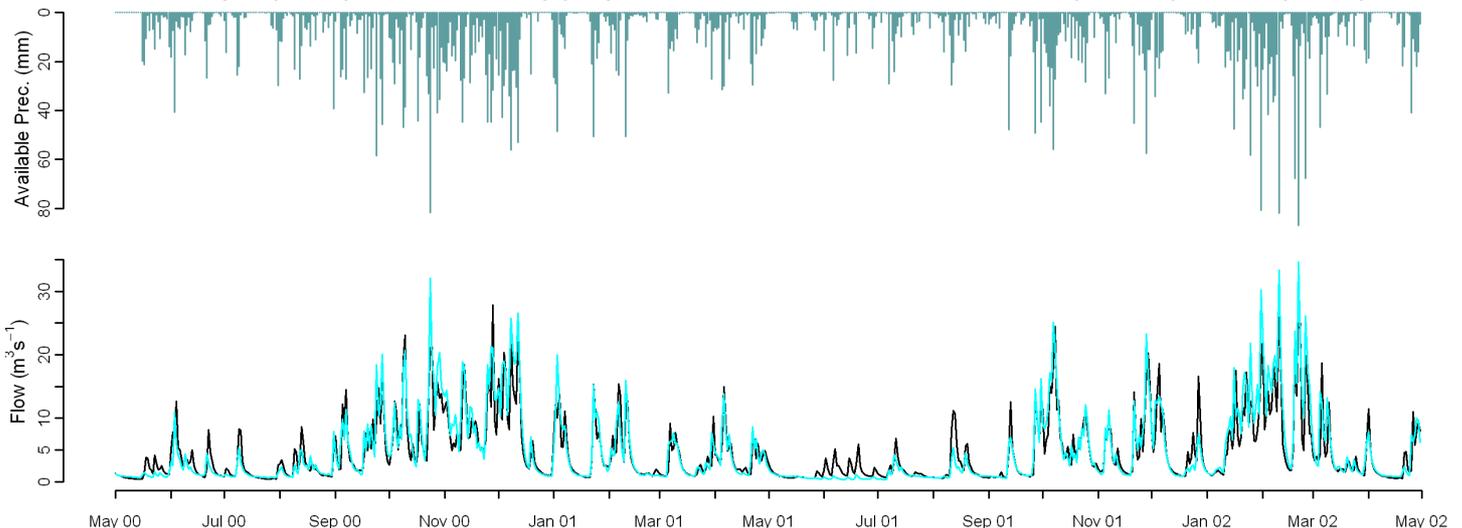
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	6.4	16.6	18.5	13.7	-3.2	-13.4	-25.2	-20.8	-12.8	-3.0	8.2	15.3	17.7	0.70
Performance Band	1	1	1	2	1	2	3	2	1	1	1	2	2	1
MORECS (1962-1991)	9.7	19.6	17.5	22.5	-0.6	-16.6	-24.9	-16.6	-13.6	-7.1	5.5	22.5	24.7	0.67
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	20.2	-3.0	-10.9	5.9	8.4									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	32.4	1.9	-9.3	6.1	7.2									

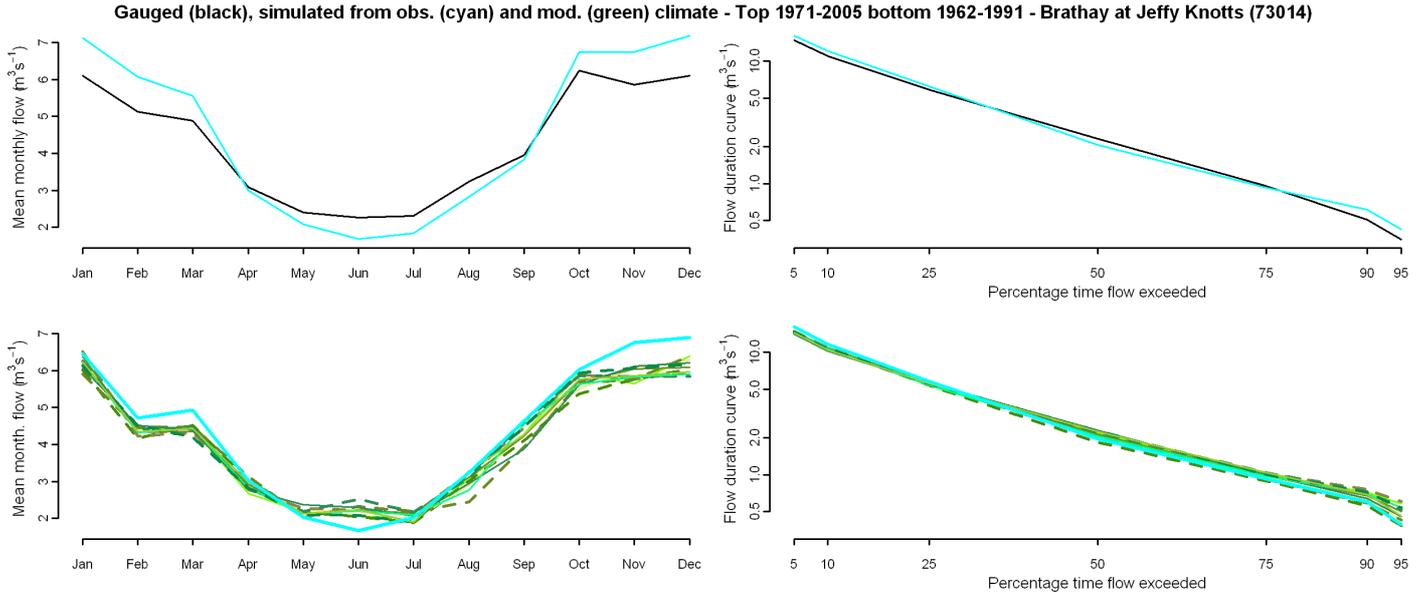
Gauged (black) and simulated (cyan) flows from observed climate - Brathay at Jeffy Knotts (73014)



Gauged (black) and simulated (cyan) flows from observed climate - Brathay at Jeffy Knotts (73014)



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	-6	-4	-1	-4	-5	-6	-2	-5	-4	-4
January	-3	-5	-2	-2	-1	-4	-8	-1	-4	-9	2
April	-11	-4	-6	-3	-5	1	-7	-7	-12	-6	-5
July	-1	-1	2	11	6	6	0	7	1	-9	-6
October	0	-2	-11	1	-5	-4	3	-4	-5	0	-3
Q90	20	-7	1	27	9	-3	3	18	15	14	16
Q75	8	-4	2	12	3	-2	6	11	5	7	11
Q50	12	-5	5	12	7	2	15	14	6	13	14
Q25	-5	-7	-3	-5	-5	-4	-4	-2	-6	-6	-4
Q5	-12	-7	-10	-8	-9	-9	-12	-8	-10	-11	-11
RP2	-12	-11	-12	-10	-11	-11	-15	-13	-10	-8	-13
RP10	-15	-16	-17	-17	-11	-18	-19	-18	-19	-12	-19

Climate change graphs for 2050s

