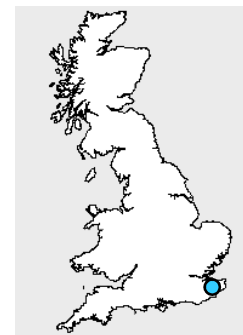


General Information

Borehole Name	Little Bucket Farm	Grid Reference	TR 12254696
Borehole ID	TR14/9	Mean Annual Rainfall (mm)	821
Principal Aquifer	Chalk Group	Period of observed level data	1971 - 2005
EA Region	Southern		



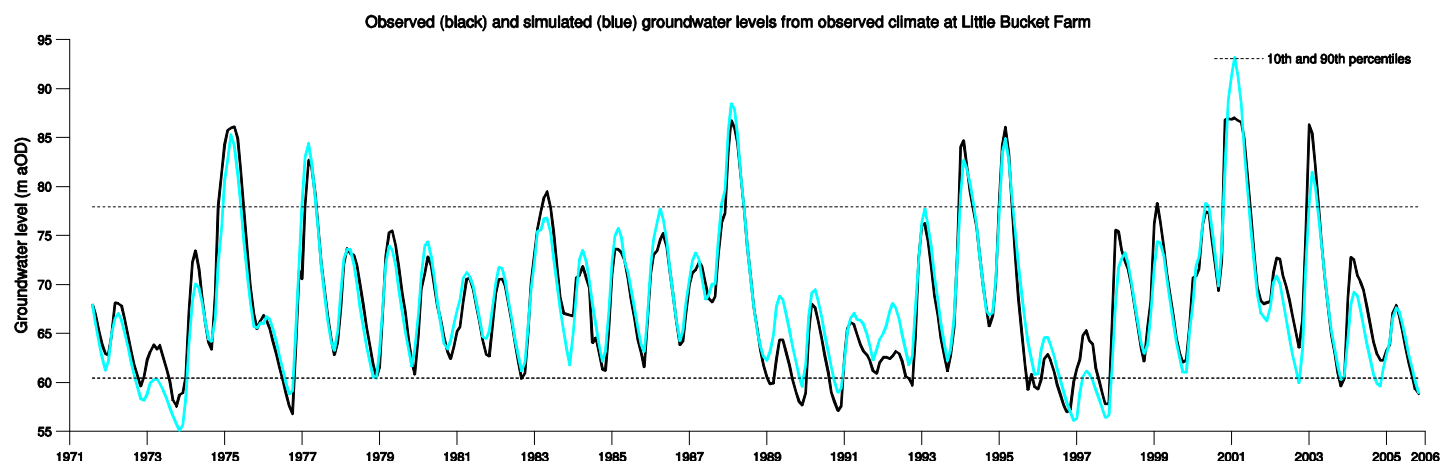
Observed Data

Comparison of observed and simulated levels (m)

Model used: R-Groundwater

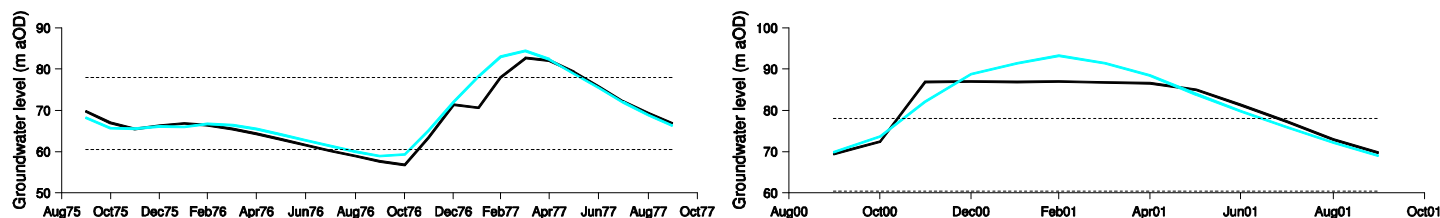
	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	NSE	RMSE
1971 - 2005	-0.02	-0.50	0.08	0.32	0.26	-0.11	-0.17	0.03	0.07	0.07	0.16	-0.18	-0.32	0.90	2.24
Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

	L90	L75	L50	L25	L10		%
1971 - 2005	-0.09	0.51	0.17	-0.07	-0.23	Error (sim-obs) in range (max-min)	26.14
Performance	1	1	1	1	1	Performance	3

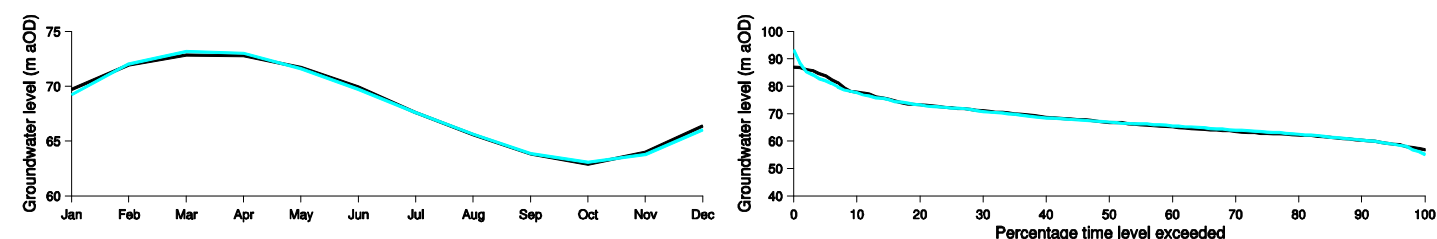


Comparison of observed and simulated levels (observed climate)

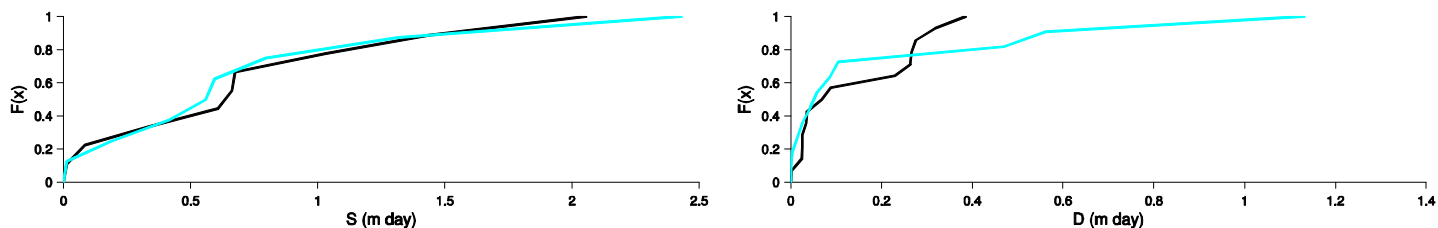
Selected observed (black) and simulated (blue) groundwater levels at Little Bucket Farm



Statistics from observed (black) and simulated (blue) groundwater levels from observed climate at Little Bucket Farm

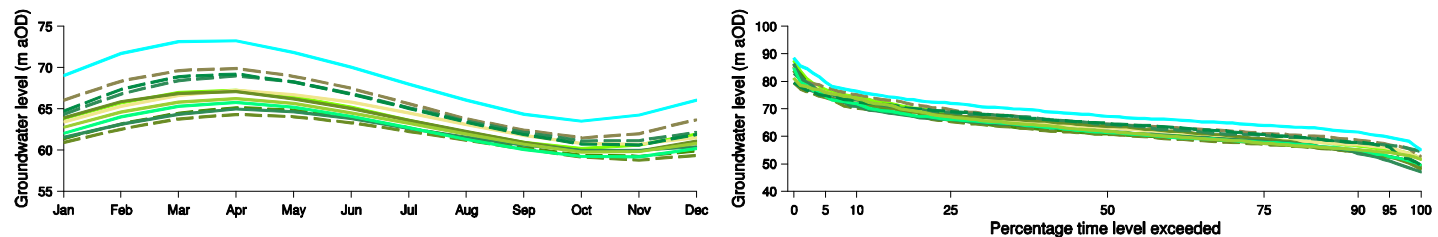


Surplus (S) and Deficit (D) distributions from observed (black) and simulated (blue) groundwater levels from observed climate at Little Bucket Farm



Difference (m) between levels simulated from observed climate and Future Flows Climate

Comparison of groundwater levels simulated using observed climate (blue) and Future Flows Climate (green)



(m)	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-4.64	-6.24	-4.43	-2.62	-4.82	-6.74	-6.07	-3.47	-5.95	-3.50	-5.38
Jan	-5.19	-7.63	-5.60	-2.97	-5.08	-8.11	-7.45	-4.66	-6.97	-4.32	-6.23
Feb	-6.01	-8.57	-6.42	-3.38	-5.81	-9.19	-8.56	-4.93	-7.69	-4.37	-7.07
Mar	-6.18	-8.71	-6.54	-3.54	-6.25	-9.41	-8.77	-4.73	-7.85	-4.25	-7.31
Apr	-5.95	-8.10	-6.01	-3.34	-6.17	-8.90	-8.27	-4.24	-7.46	-4.02	-6.96
May	-5.36	-7.00	-5.09	-2.89	-5.62	-7.80	-7.15	-3.59	-6.64	-3.60	-6.19
Jun	-4.85	-6.06	-4.22	-2.60	-4.98	-6.76	-6.21	-3.18	-5.95	-3.25	-5.51
Jul	-4.32	-5.28	-3.44	-2.36	-4.35	-5.70	-5.35	-2.82	-5.26	-2.95	-4.71
Aug	-3.88	-4.71	-2.99	-2.25	-3.82	-4.86	-4.49	-2.51	-4.78	-2.72	-4.13
Sep	-3.40	-4.11	-2.60	-1.98	-3.44	-4.22	-3.73	-2.20	-4.28	-2.49	-3.66
Oct	-3.33	-4.14	-2.71	-2.04	-3.59	-4.36	-3.52	-2.44	-4.25	-2.81	-3.74
Nov	-3.64	-5.03	-3.54	-2.27	-4.36	-5.50	-4.29	-3.11	-5.07	-3.61	-4.42
Dec	-4.13	-6.14	-4.54	-2.39	-4.96	-6.66	-5.65	-3.90	-5.84	-4.18	-5.22

Climate change graphs for 2050s

Change between future (2041–2070) and control (1961–1990) simulated levels at Little Bucket Farm

