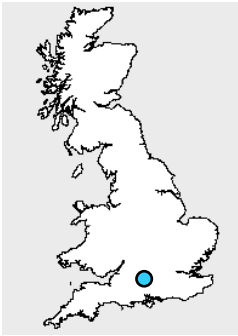


## General Information

Borehole Name	Clanville Lodge Gate	Grid Reference	SU 32224922
Borehole ID	SU34/8D	Mean Annual Rainfall (mm)	810
Principal Aquifer	Chalk Group	Period of observed level data	1996 - 2005
EA Region	Southern		



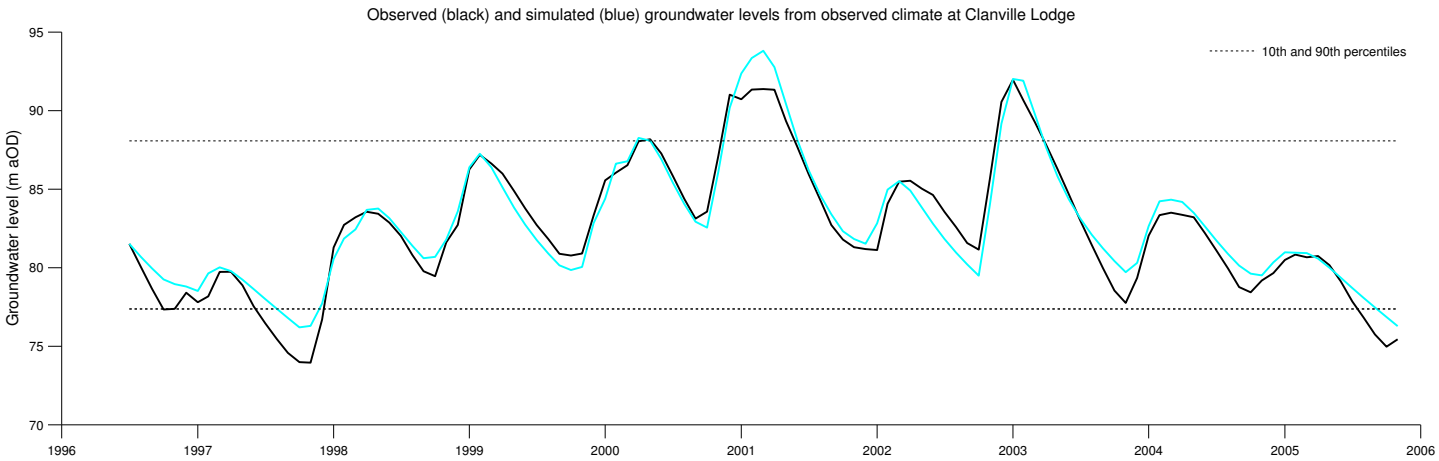
## Observed Data

## Comparison of observed and simulated levels (m)

## Model used: R-

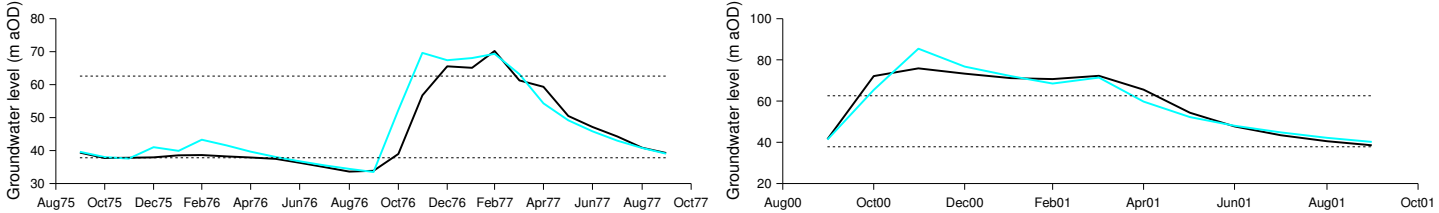
	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	NSE	RMSE
1996 - 2005	0.32	0.38	0.71	0.40	0.09	-0.10	-0.12	0.05	0.34	0.71	0.73	0.42	0.17	0.94	1.05
Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

	L90	L75	L50	L25	L10		%
1996 - 2005	1.24	0.32	0.07	-0.79	0.12	Error (sim-obs) in range (max-min)	-2.26
Performance	1	1	1	1	1	Performance	1

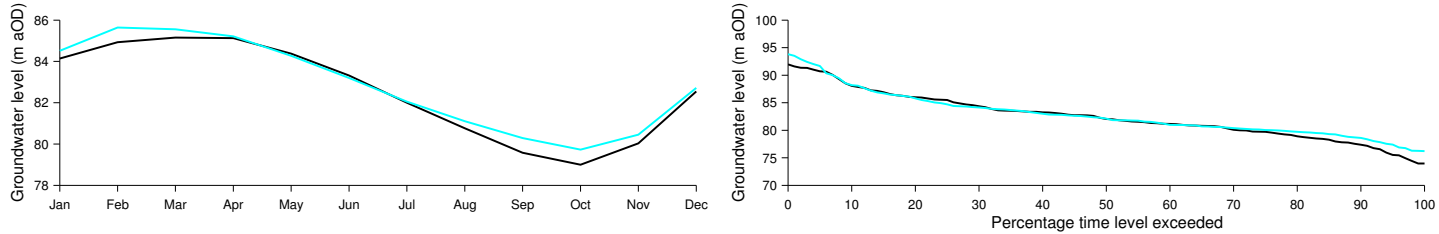


## Comparison of observed and simulated levels (observed climate)

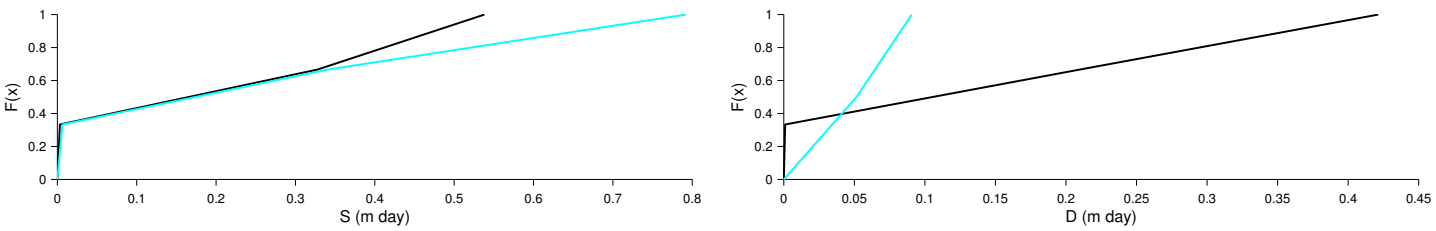
Selected observed (black) and simulated (blue) groundwater levels at Chilgrove House



Statistics from observed (black) and simulated (blue) groundwater levels from observed climate at Clanville Lodge

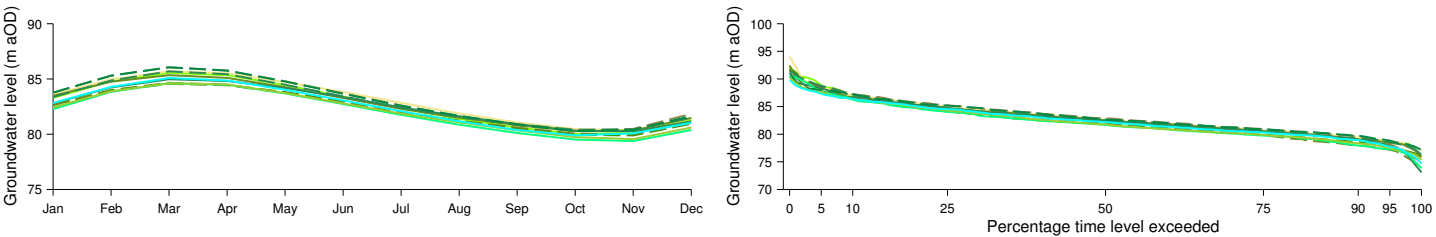


Surplus (S) and Deficit (D) distributions from observed (black) and simulated (blue) groundwater levels from observed climate at Clanville Lodge



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	0.35	-0.11	0.66	0.71	0.37	-0.12	0.22	0.50	-0.40	0.69	-0.28
Jan	0.46	-0.19	0.76	0.94	0.65	-0.17	-0.02	0.53	-0.55	0.94	-0.40
Feb	0.50	-0.29	0.69	1.02	0.46	-0.37	-0.06	0.57	-0.45	1.01	-0.40
Mar	0.47	-0.44	0.61	0.95	0.26	-0.53	-0.12	0.61	-0.49	0.97	-0.47
Apr	0.49	-0.39	0.65	0.89	0.23	-0.44	-0.05	0.57	-0.39	0.90	-0.35
May	0.42	-0.21	0.69	0.76	0.23	-0.29	0.16	0.46	-0.34	0.75	-0.30
Jun	0.35	-0.07	0.77	0.64	0.23	-0.15	0.31	0.38	-0.33	0.61	-0.27
Jul	0.26	-0.04	0.75	0.51	0.21	-0.09	0.34	0.30	-0.34	0.49	-0.22
Aug	0.23	0.02	0.71	0.46	0.32	0.05	0.46	0.36	-0.31	0.50	-0.10
Sep	0.22	0.12	0.68	0.41	0.44	0.22	0.53	0.52	-0.28	0.51	-0.03
Oct	0.13	0.05	0.57	0.38	0.37	0.15	0.43	0.50	-0.38	0.38	-0.16
Nov	0.05	-0.18	0.28	0.41	0.25	-0.09	0.18	0.37	-0.69	0.32	-0.52
Dec	0.25	-0.08	0.43	0.82	0.44	-0.04	0.12	0.49	-0.65	0.60	-0.43

Climate change graphs for 2050s

Change between future (2041–2070) and control (1961–1990) simulated levels at Clanville Lodge

