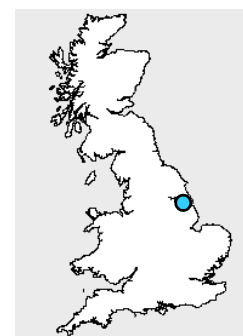


### General Information

Borehole Name	Aylesby	Grid Reference	TA 19490713
Borehole ID	TA10/63	Mean Annual Rainfall (mm)	678
Principal Aquifer	Chalk Group	Period of observed level data	1979 - 2005
EA Region	Anglian		



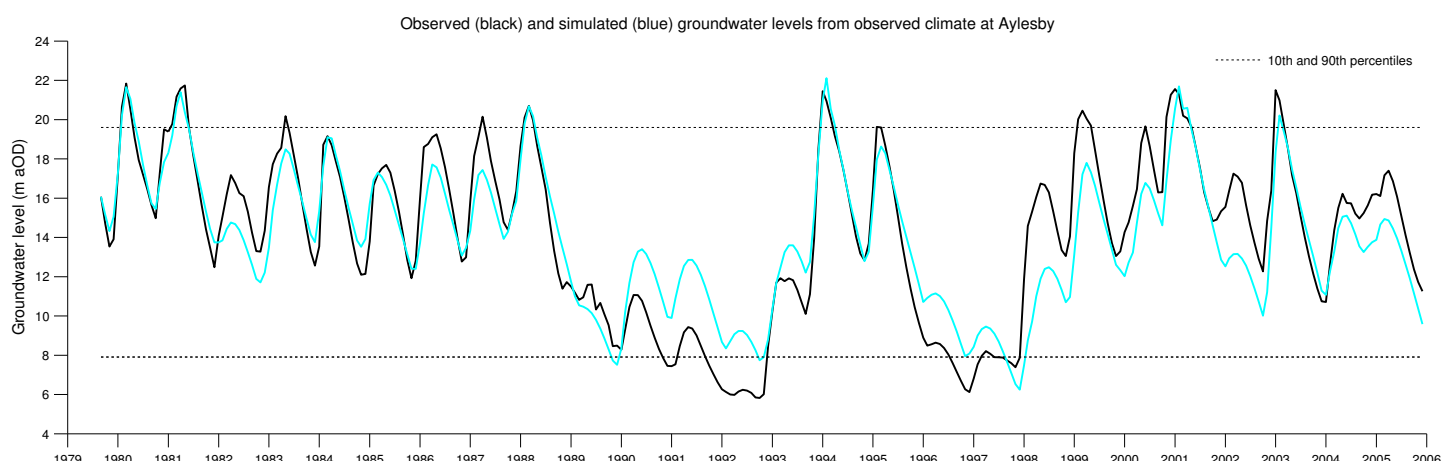
### Observed Data

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

### Model used: R-Groundwater

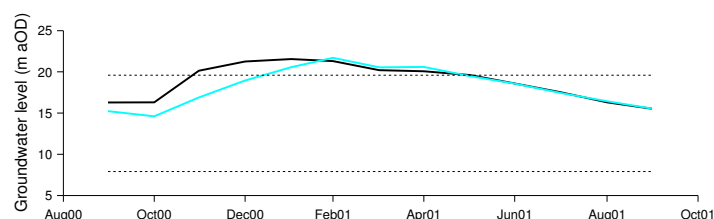
	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	NSE	RMSE
1979 - 2005	-0.23	-0.72	-0.76	-0.60	-0.37	-0.49	-0.26	-0.11	0.06	0.24	0.29	0.09	-0.22	0.79	1.89
Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

	L90	L75	L50	L25	L10		%
1979 - 2005	1.34	0.38	-1.05	-0.74	-1.12	Error (sim-obs) in range (max-min)	-0.94
Performance	1	1	1	1	1	Performance	1

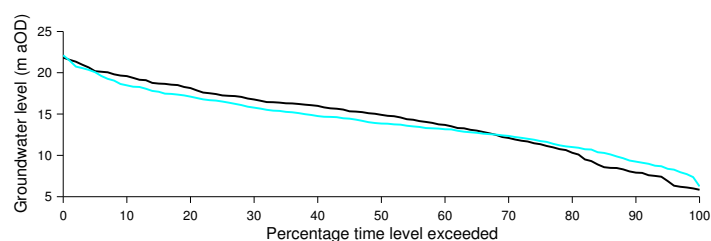
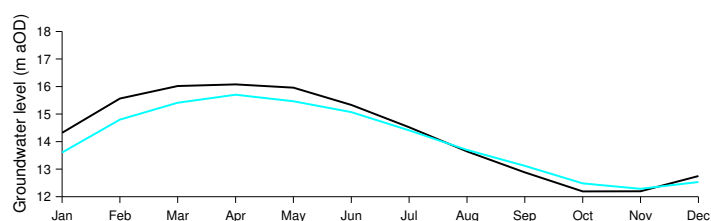


### Comparison of observed and simulated levels (observed climate)

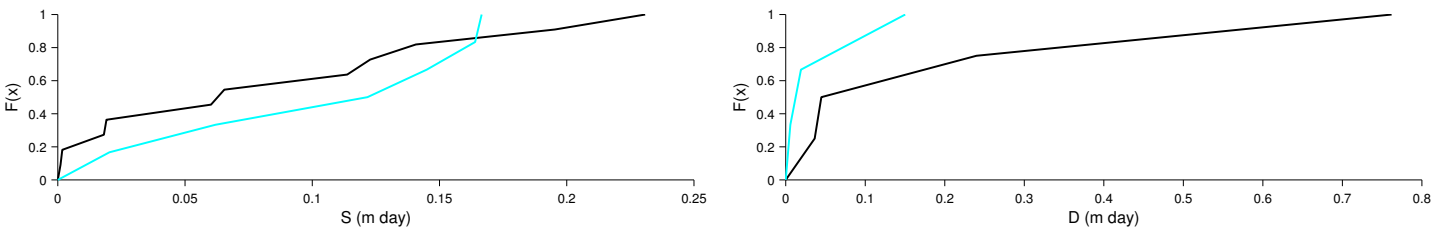
Selected observed (black) and simulated (blue) groundwater levels at Aylesby



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

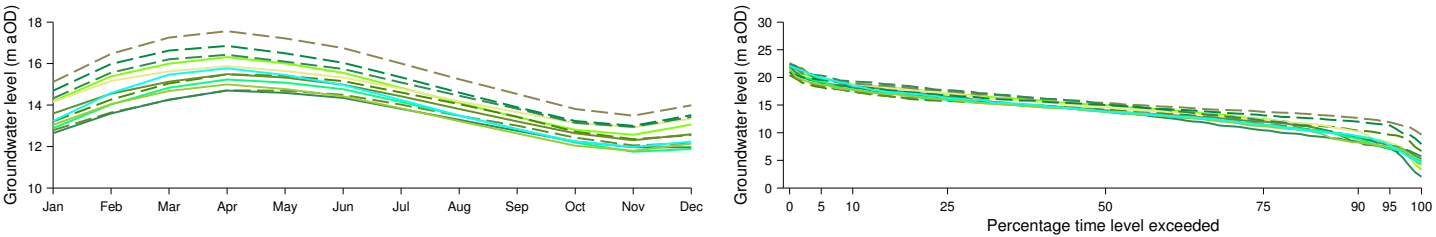


Surplus (S) and Deficit (D) distributions from observed (black) and simulated (blue) groundwater levels from observed climate at Aylesby



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	0.65	0.15	0.61	1.75	0.13	-0.39	-0.52	0.90	-0.28	1.15	-0.40
Jan	0.95	-0.02	0.91	1.88	0.36	-0.45	-0.59	1.09	-0.35	1.46	-0.19
Feb	0.80	-0.31	0.59	1.89	-0.03	-0.94	-0.99	0.98	-0.55	1.40	-0.53
Mar	0.53	-0.42	0.15	1.79	-0.34	-1.22	-1.20	0.74	-0.63	1.16	-0.79
Apr	0.54	-0.28	0.10	1.79	-0.28	-1.06	-1.07	0.65	-0.54	1.08	-0.78
May	0.56	-0.04	0.19	1.77	-0.13	-0.76	-0.86	0.65	-0.37	1.04	-0.68
Jun	0.59	0.19	0.36	1.78	0.01	-0.47	-0.62	0.77	-0.20	1.07	-0.55
Jul	0.58	0.36	0.55	1.76	0.18	-0.23	-0.43	0.85	-0.09	1.09	-0.40
Aug	0.60	0.55	0.68	1.75	0.31	-0.02	-0.21	0.95	-0.02	1.10	-0.28
Sep	0.58	0.60	0.82	1.70	0.38	0.17	-0.08	0.99	0.01	1.06	-0.20
Oct	0.56	0.47	0.89	1.56	0.39	0.18	-0.01	0.90	-0.06	0.98	-0.21
Nov	0.59	0.38	0.95	1.51	0.32	0.07	-0.01	0.97	-0.23	1.02	-0.18
Dec	0.82	0.31	1.11	1.75	0.35	-0.07	-0.28	1.19	-0.36	1.28	-0.10

Climate change graphs for 2050s

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

