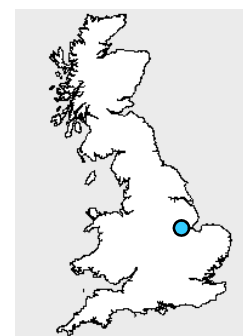


General Information

Borehole Name	New Red Lion	Grid Reference	TF 08853034
Borehole ID	TF03/37	Mean Annual Rainfall (mm)	614
Principal Aquifer	Lincolnshire Limestone	Period of observed level data	1964 - 2005
EA Region	Anglian		



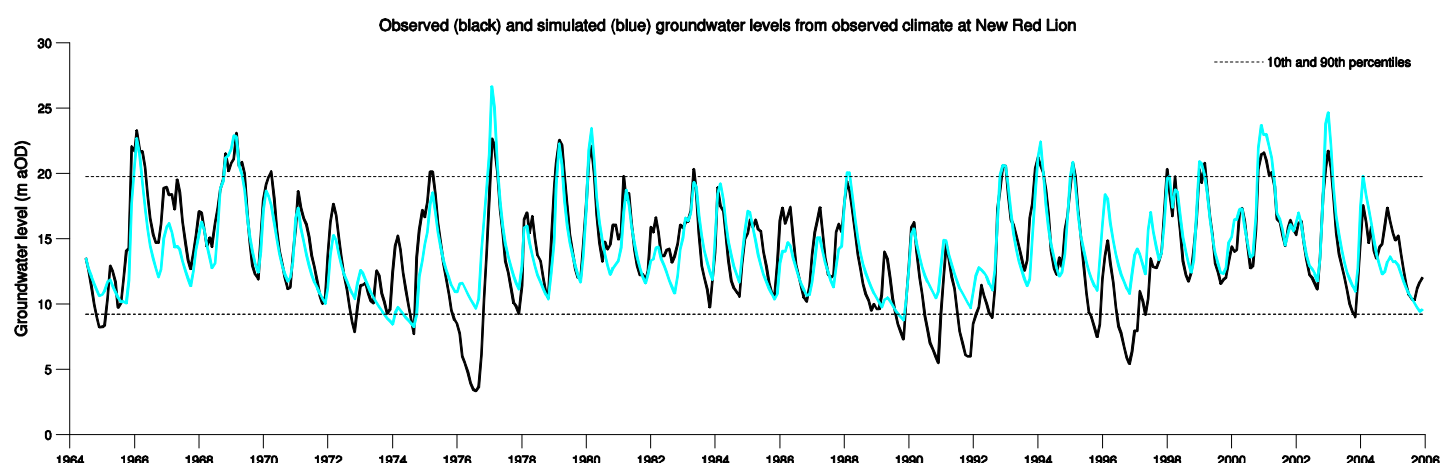
Observed Data

Comparison of observed and simulated levels (m)

Model used: R-Groundwater

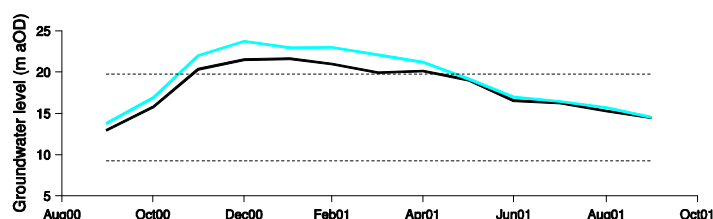
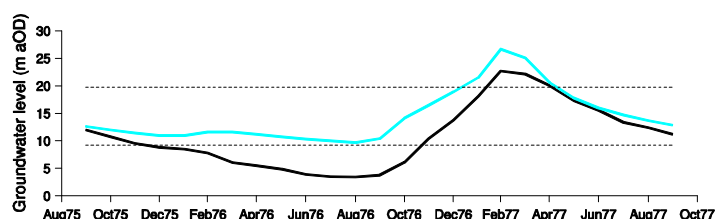
	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	NSE	RMSE
1964 - 2005	0.20	0.22	0.45	0.00	-0.31	-0.42	0.04	0.43	0.53	0.62	0.25	0.32	0.19	0.69	2.18
Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	2	

	L90	L75	L50	L25	L10		%
1964 - 2005	1.30	0.42	-0.45	-0.42	-0.60	Error (sim-obs) in range (max-min)	-7.83
Performance	1	1	1	1	1	Performance	1

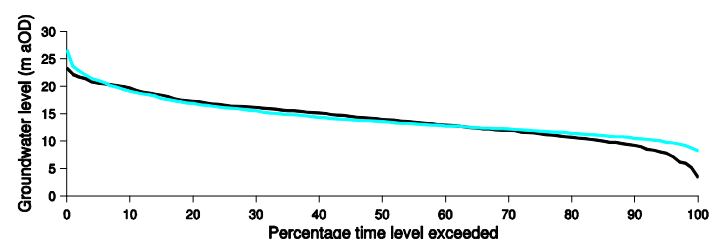
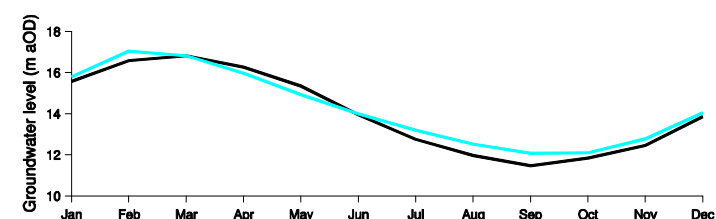


Comparison of observed and simulated levels (observed climate)

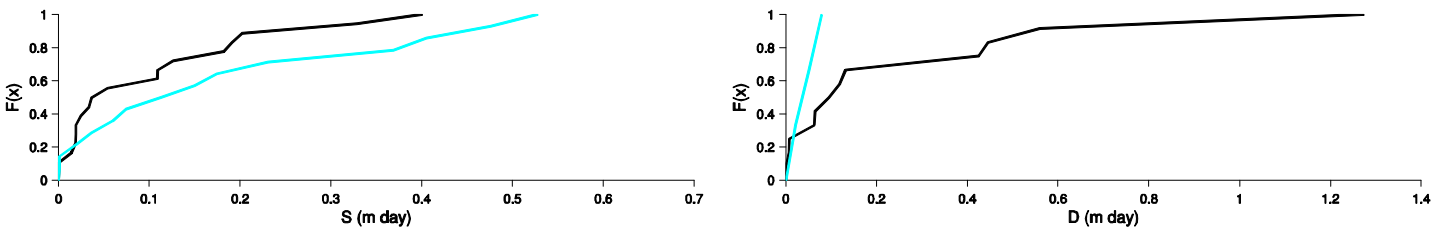
Selected observed (black) and simulated (blue) groundwater levels at New Red Lion



Statistics from observed (black) and simulated (blue) groundwater levels from observed climate at New Red Lion

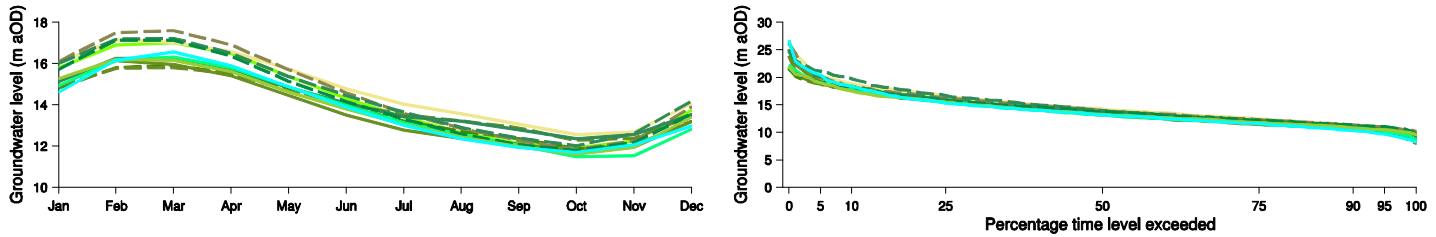


Surplus (S) and Deficit (D) distributions from observed (black) and simulated (blue) groundwater levels from observed climate at New Red Lion



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	0.52	0.03	0.97	0.77	-0.08	0.22	0.36	0.73	-0.01	0.44	0.03
Jan	1.20	0.21	1.46	1.49	0.61	0.27	0.52	1.41	0.33	1.12	0.67
Feb	0.75	-0.35	0.99	1.34	-0.03	-0.38	0.09	1.01	0.00	0.97	0.05
Mar	0.45	-0.66	0.47	1.02	-0.62	-0.76	-0.32	0.64	-0.26	0.56	-0.41
Apr	0.61	-0.36	0.71	1.01	-0.49	-0.40	-0.19	0.62	-0.07	0.46	-0.27
May	0.50	-0.11	0.87	0.82	-0.43	-0.16	-0.05	0.49	0.00	0.25	-0.26
Jun	0.43	0.06	0.89	0.70	-0.37	0.17	0.20	0.58	0.09	0.27	-0.08
Jul	0.40	0.23	1.06	0.59	-0.22	0.52	0.44	0.63	0.13	0.30	0.05
Aug	0.28	0.36	1.22	0.49	0.03	0.86	0.86	0.54	0.20	0.23	0.08
Sep	0.17	0.41	1.14	0.33	0.16	0.95	0.85	0.44	0.10	0.12	0.03
Oct	0.22	0.16	0.86	0.12	0.06	0.58	0.65	0.32	-0.20	0.08	-0.08
Nov	0.19	-0.04	0.62	0.20	-0.11	0.31	0.52	0.55	-0.51	0.11	-0.13
Dec	0.73	0.22	1.07	0.90	0.22	0.46	0.54	1.19	-0.17	0.57	0.40

Climate change graphs for 2050s

Change between future (2041–2070) and control (1961–1990) simulated levels at New Red Lion

