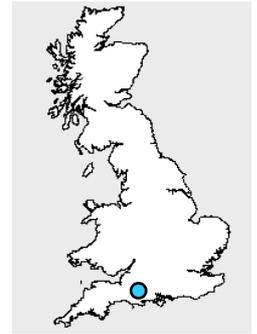


General Information

| | | | |
|-------------------|----------------------|-------------------------------|-------------|
| Borehole Name | West Woodyates Manor | Grid Reference | SU 01591948 |
| Borehole ID | SU01/5B | Mean Annual Rainfall (mm) | 893 |
| Principal Aquifer | Chalk Group | Period of observed level data | 1961 - 2005 |
| EA Region | South West | | |



Observed Data

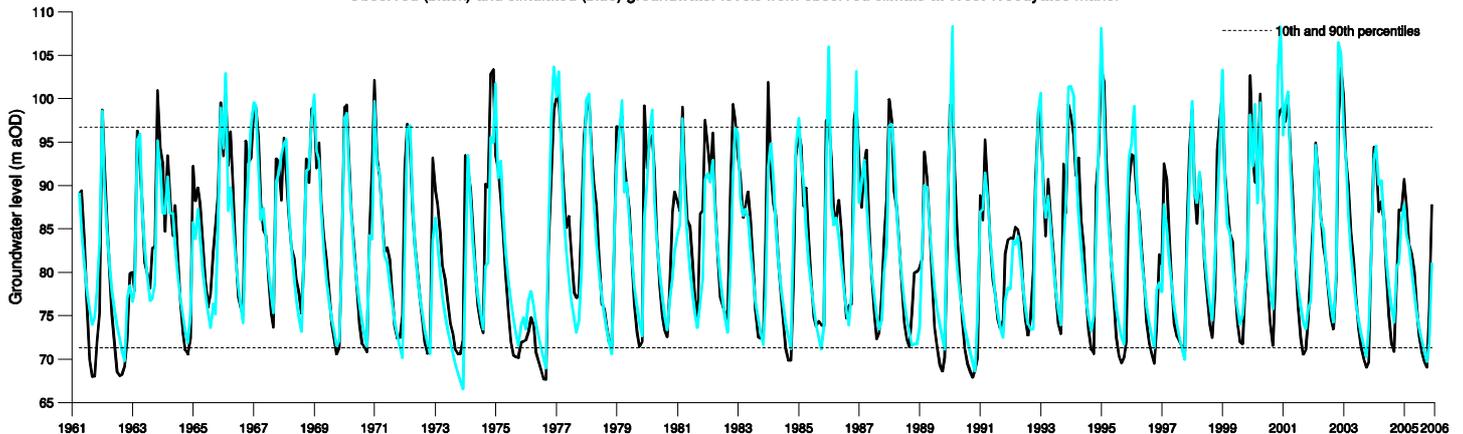
Comparison of observed and simulated levels (m)

Model used: R-Groundwater

| | Mean Annual | J | F | M | A | M | J | J | A | S | O | N | D | NSE | RMSE |
|-------------|-------------|-------|------|-------|-------|-------|-------|------|------|------|-------|-------|-------|------|------|
| 1961 - 2005 | -0.45 | -1.54 | 0.42 | -0.73 | -1.49 | -1.08 | -0.45 | 0.78 | 1.32 | 0.72 | -0.88 | -0.90 | -1.65 | 0.86 | 3.50 |
| Performance | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |

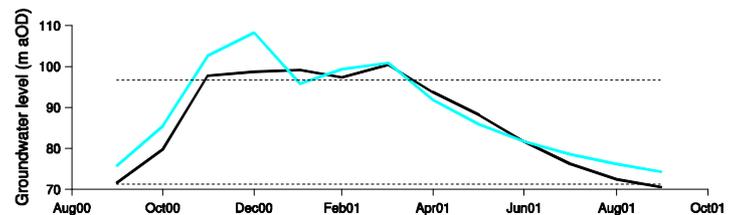
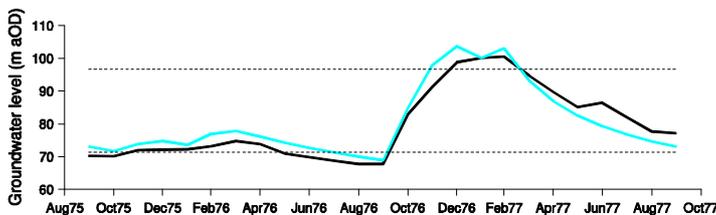
| | L90 | L75 | L50 | L25 | L10 | | % |
|-------------|------|------|-------|-------|-------|------------------------------------|-------|
| 1961 - 2005 | 1.45 | 0.93 | -1.80 | -2.29 | -0.71 | Error (sim-obs) in range (max-min) | 16.43 |
| Performance | 1 | 1 | 1 | 1 | 1 | Performance | 2 |

Observed (black) and simulated (blue) groundwater levels from observed climate at West Woodyates Manor

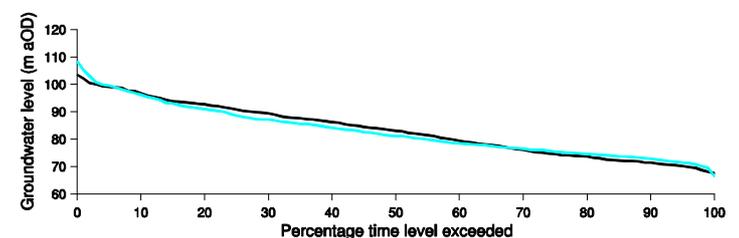
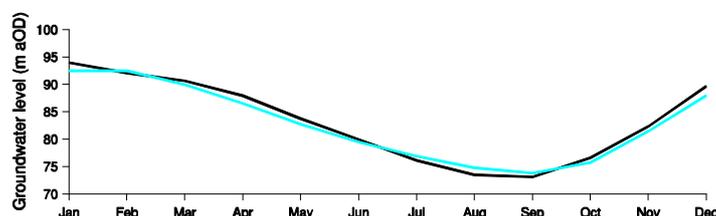


Comparison of observed and simulated levels (observed climate)

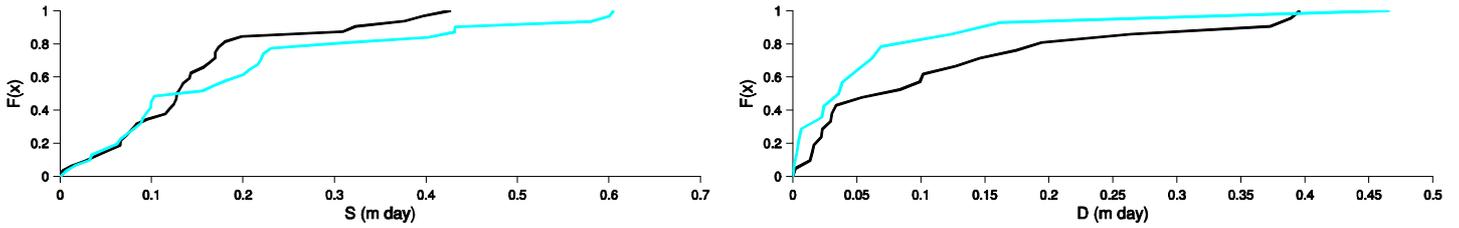
Selected observed (black) and simulated (blue) groundwater levels at West Woodyates Manor



Statistics from observed (black) and simulated (blue) groundwater levels from observed climate at West Woodyates Manor

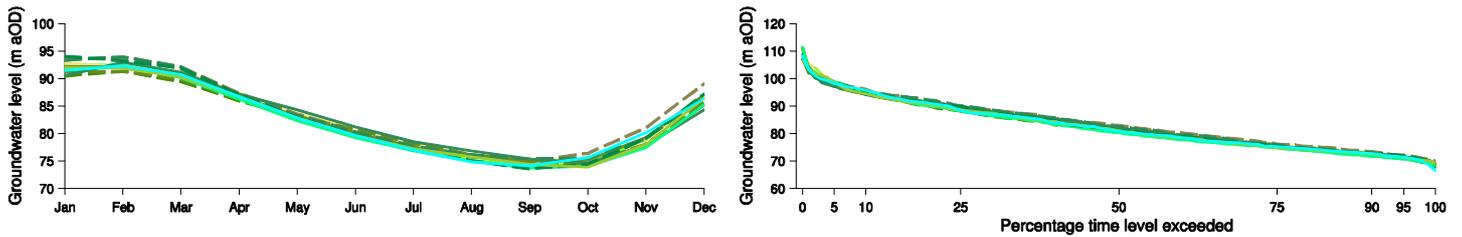


Surplus (S) and Deficit (D) distributions from observed (black) and simulated (blue) groundwater levels from observed climate at West Woodyates Manor



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 | 0.14 | -0.36 | 0.67 | 1.21 | 0.35 | -0.03 | 0.33 | 0.82 | -0.57 | 0.37 | -0.14 |
| Jan | 1.15 | -1.06 | 1.23 | 1.88 | 0.69 | -0.17 | -1.01 | 1.84 | 0.02 | 2.54 | 0.42 |
| Feb | 0.10 | -0.90 | -0.03 | 1.58 | -0.12 | -0.92 | 0.67 | 1.70 | 0.05 | 0.99 | -0.37 |
| Mar | 0.28 | -1.24 | 0.67 | 1.43 | -0.24 | -0.72 | 0.39 | 1.45 | -0.59 | 1.10 | -0.45 |
| Apr | 0.03 | -0.72 | 0.75 | 0.67 | 0.05 | -0.34 | 0.51 | 0.38 | -0.47 | 0.39 | 0.04 |
| May | 0.13 | 0.32 | 0.86 | 0.72 | 0.36 | 0.35 | 1.47 | 0.55 | -0.50 | 0.09 | -0.04 |
| Jun | 0.34 | 0.45 | 1.40 | 0.70 | 0.47 | 1.08 | 1.53 | 0.64 | -0.38 | 0.08 | -0.03 |
| Jul | 0.31 | 0.50 | 1.26 | 0.74 | 0.59 | 1.17 | 1.52 | 0.74 | -0.19 | 0.09 | 0.26 |
| Aug | 0.30 | 1.00 | 1.13 | 0.87 | 1.26 | 1.27 | 1.97 | 1.21 | 0.05 | 0.15 | 0.92 |
| Sep | 0.00 | 0.98 | 0.90 | 0.81 | 0.80 | 0.80 | 1.34 | 1.32 | -0.38 | -0.55 | 0.30 |
| Oct | -1.11 | -1.12 | -0.20 | 0.72 | -0.53 | -1.30 | -1.02 | -0.09 | -1.65 | -1.20 | -1.76 |
| Nov | -1.22 | -2.38 | -1.05 | 0.90 | -0.85 | -2.02 | -2.32 | -1.12 | -2.69 | -0.99 | -2.13 |
| Dec | 0.54 | -1.09 | 0.26 | 2.66 | 0.81 | -0.51 | -2.00 | 0.39 | -1.02 | 0.88 | 0.20 |

Climate change graphs for 2050s

Change between future (2041–2070) and control (1961–1990) simulated levels at West Woodyates Manor

