

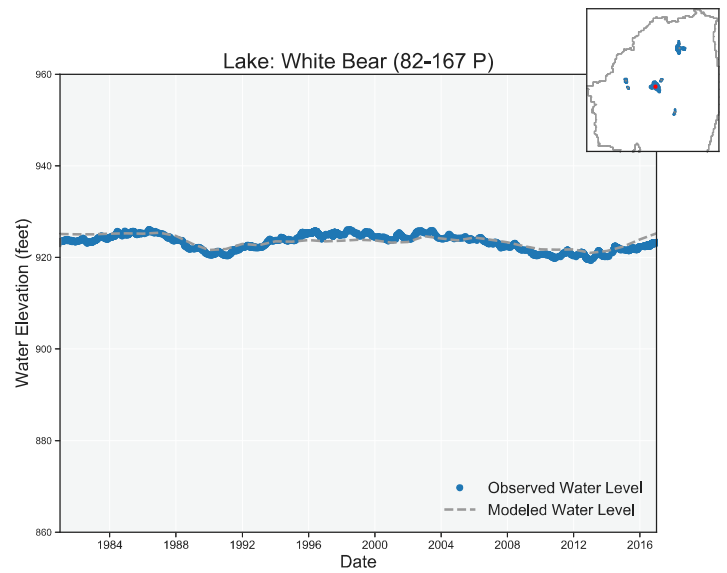
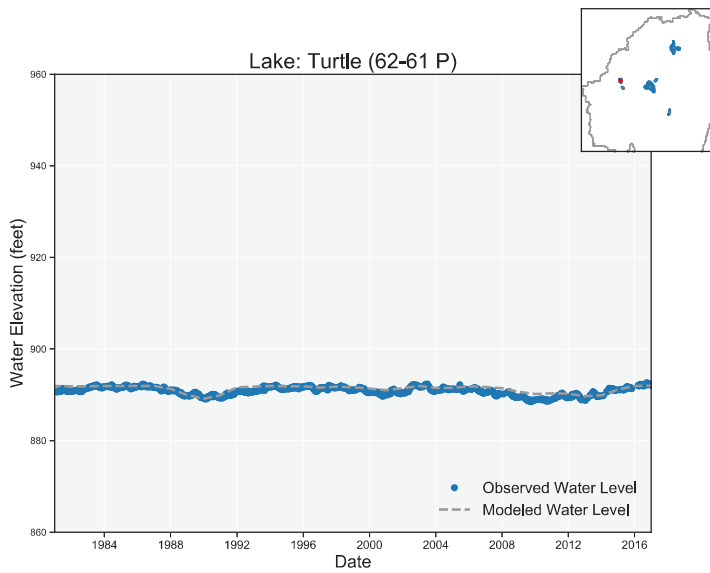
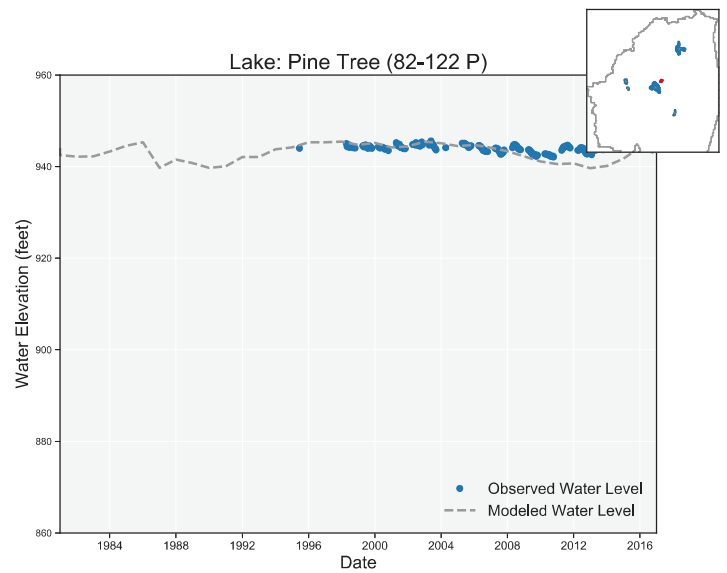
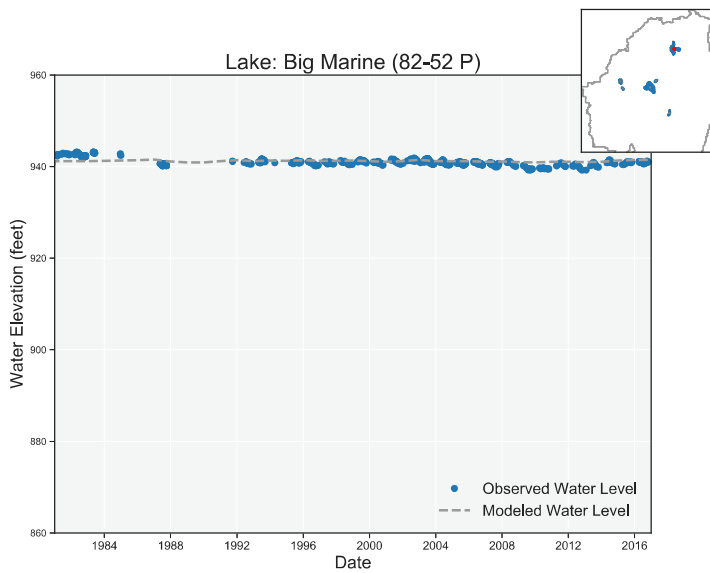
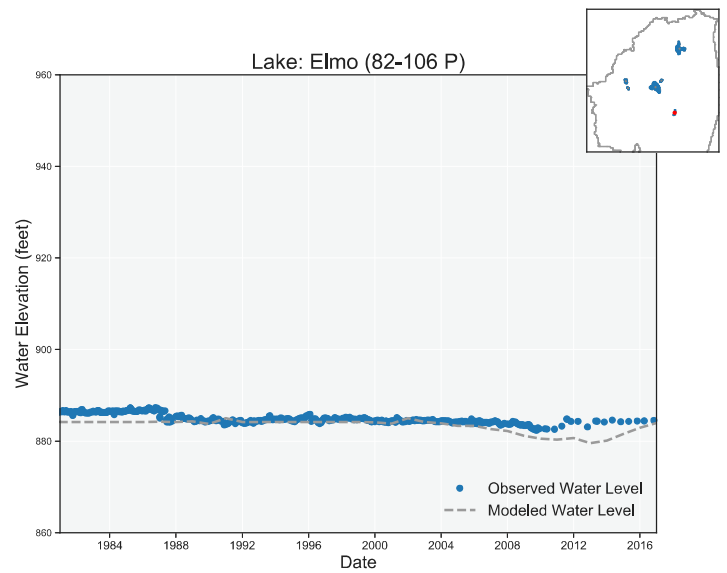
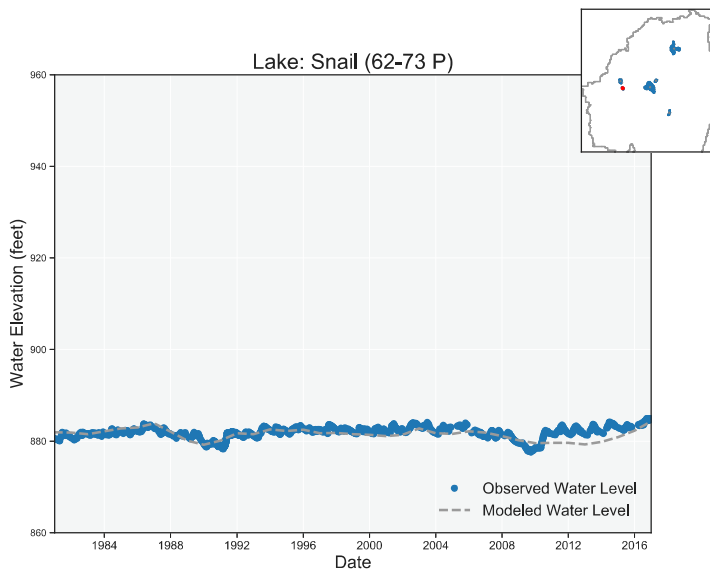
APPENDIX B

Appendix B

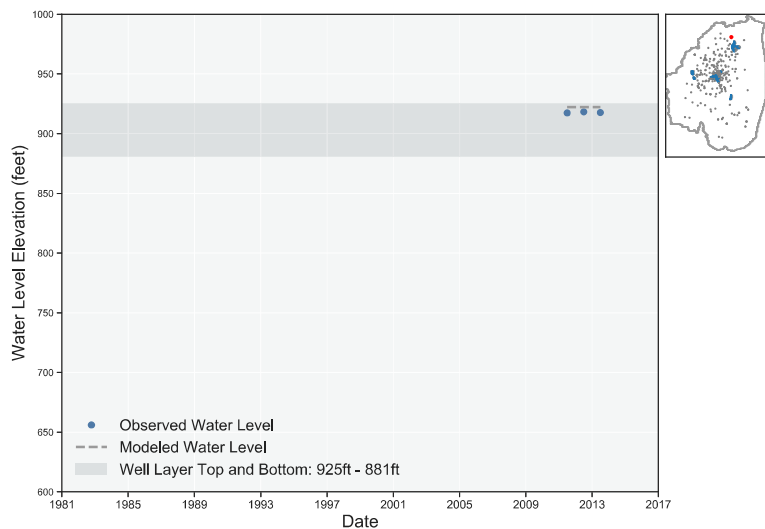
Comprehensive Calibration Plots and Statistics

Appendix B-1

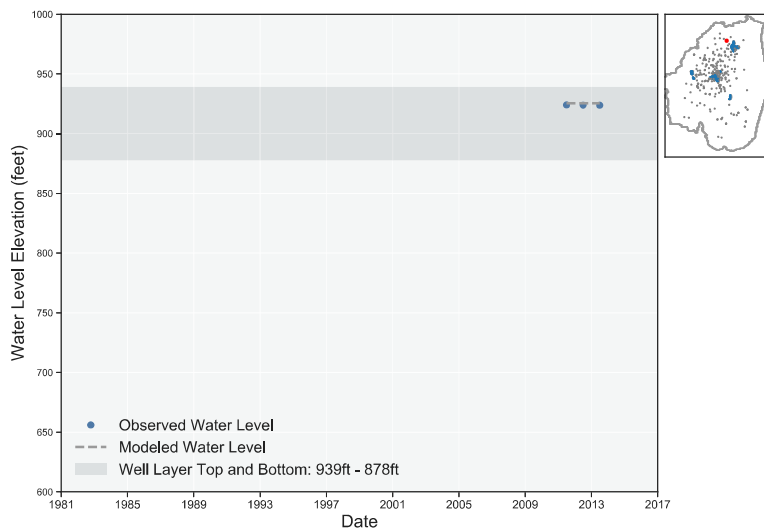
Fixed Scale Plots for the Annual Stress Period Model



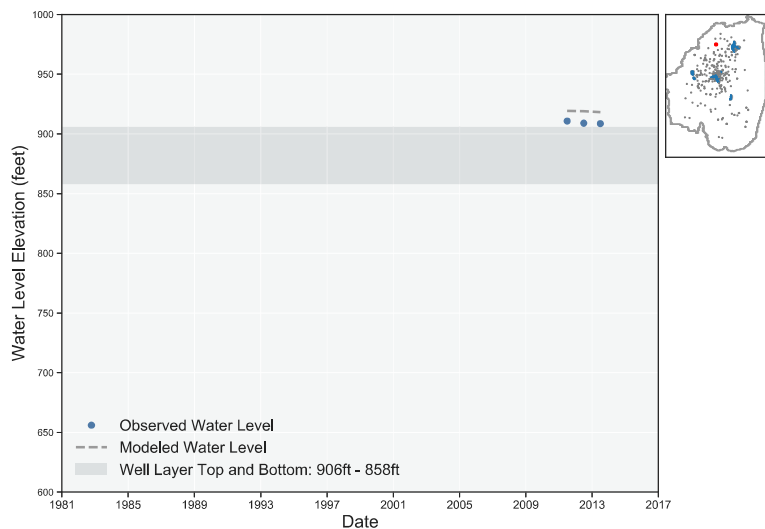
Well 138275 - Aq: QBAA Layers: 4 - 4



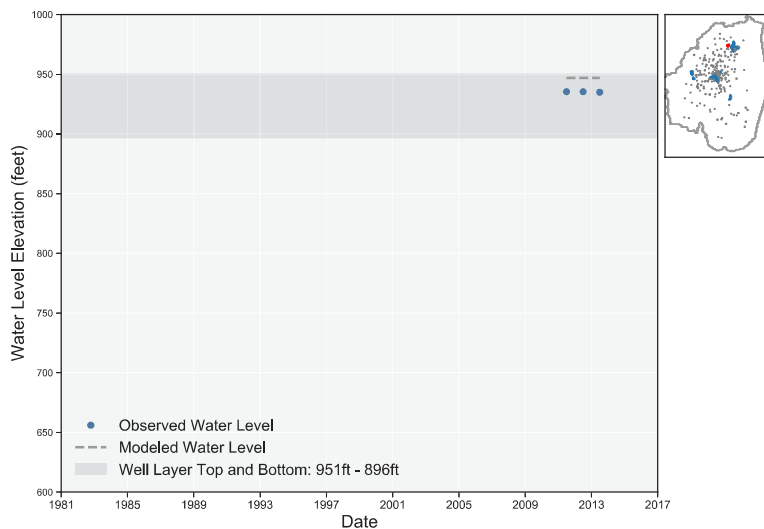
Well 446292 - Aq: QBAA Layers: 4 - 4



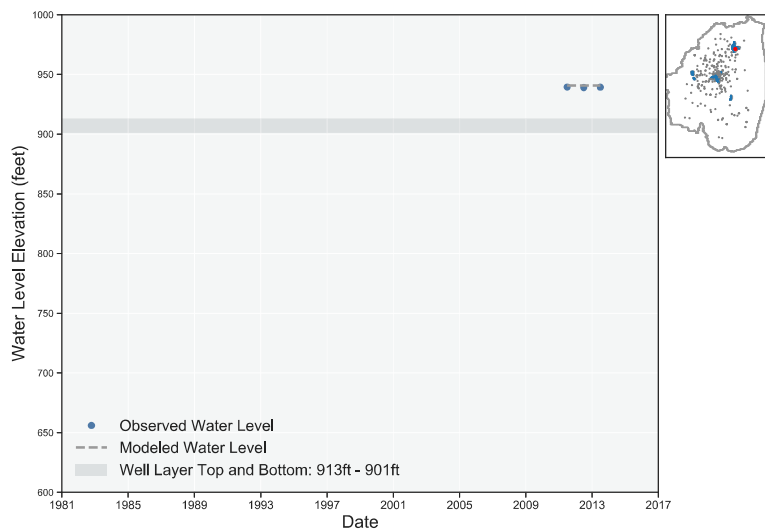
Well 404644 - Aq: QBAA Layers: 4 - 4



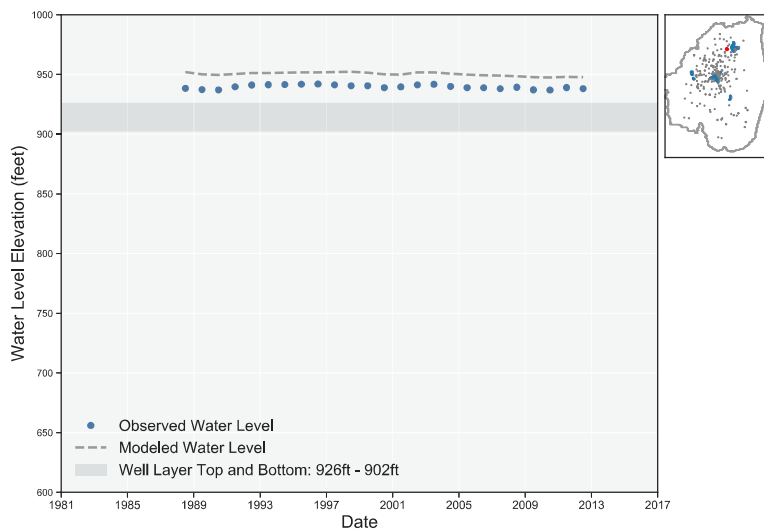
Well 112422 - Aq: QBAA Layers: 4 - 4



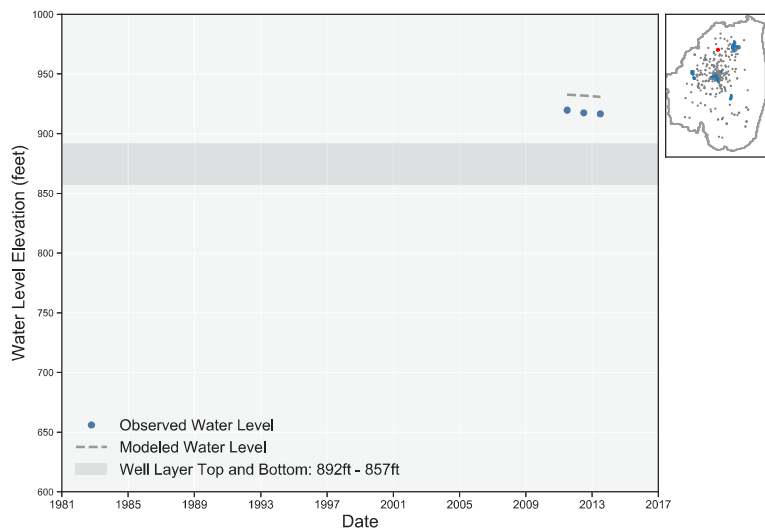
Well 139010 - Aq: QBAA Layers: 4 - 4



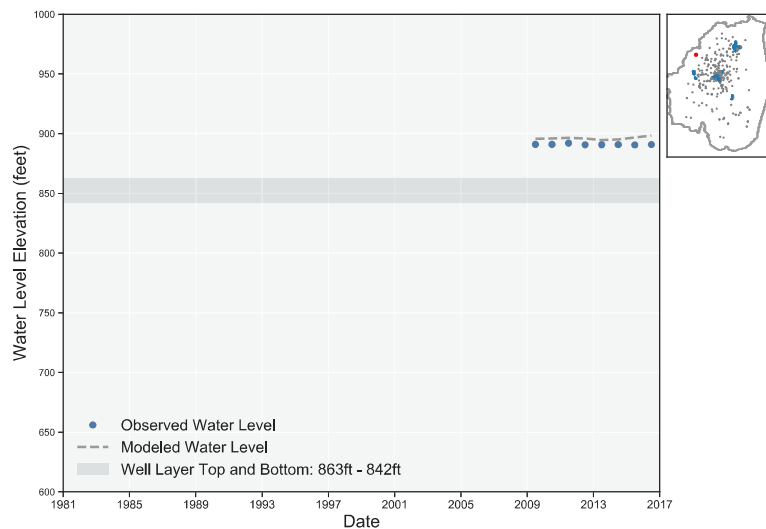
Well 82036 - Aq: QWTA Layers: 4 - 4



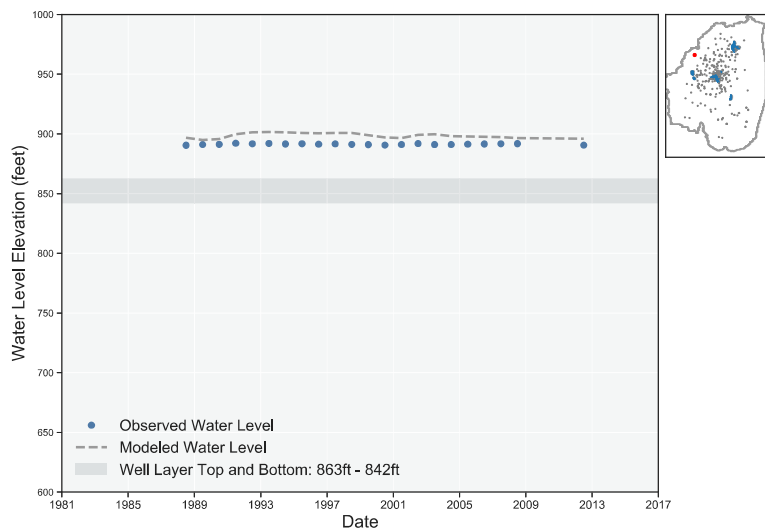
Well 136144 - Aq: QBAA Layers: 4 - 4



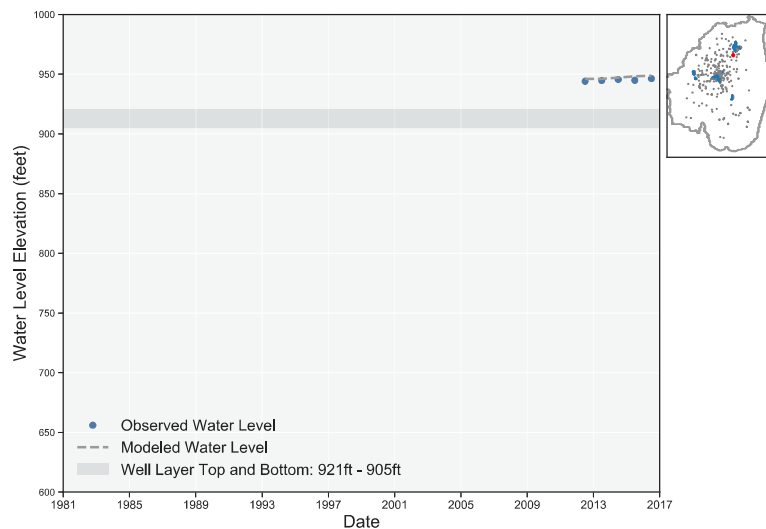
Well 2030 - Aq: QWTA Layers: 4 - 4



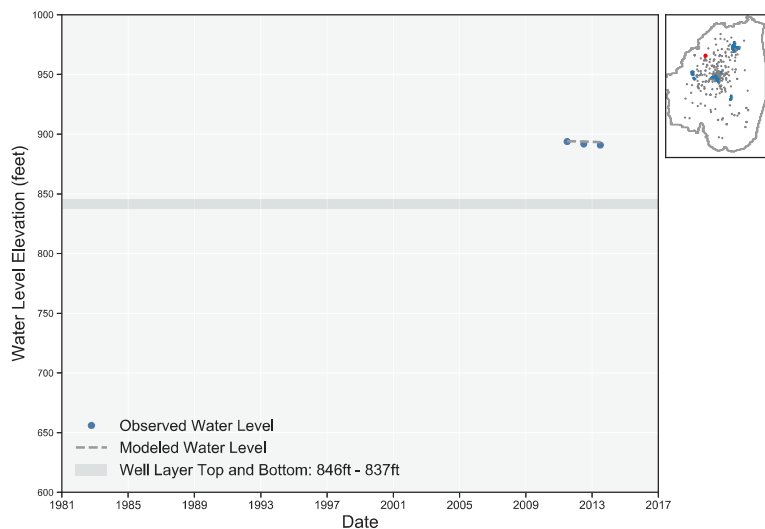
Well 2010 - Aq: QWTA Layers: 4 - 4



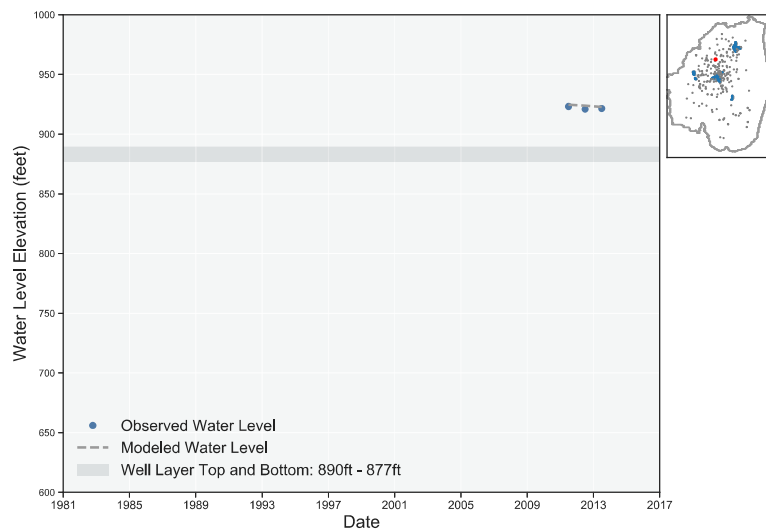
Well 82055 - Aq: QBAA Layers: 4 - 4



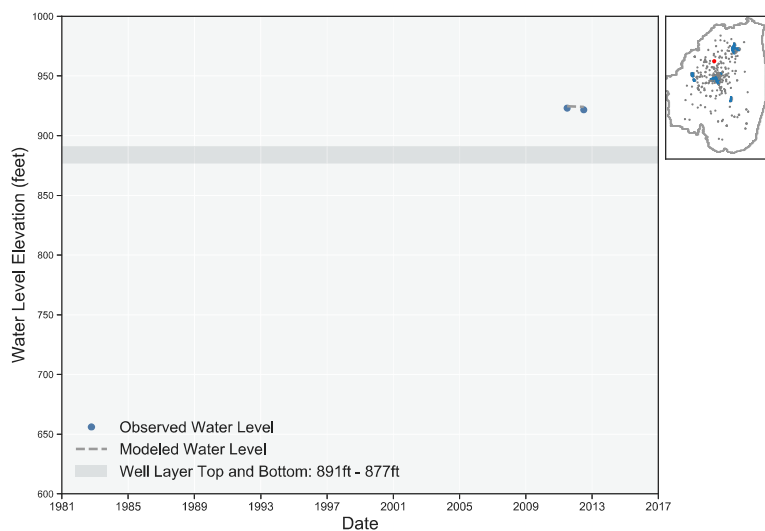
Well 169252 - Aq: QBAA Layers: 4 - 4



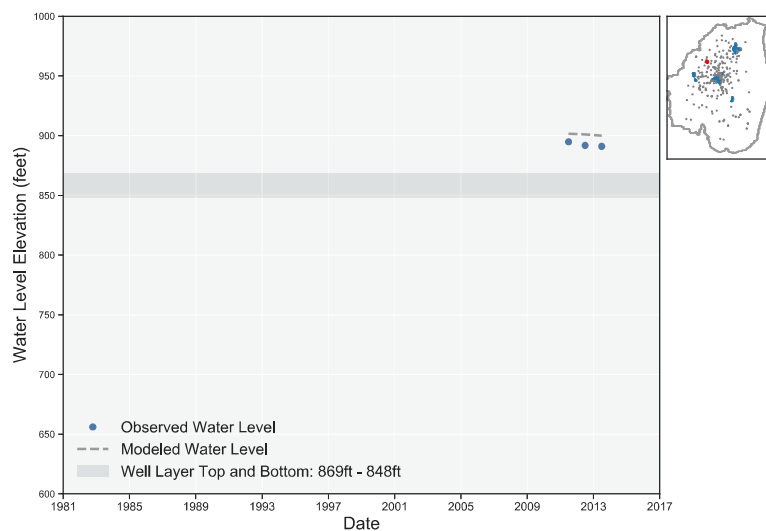
Well 620717 - Aq: QWTA Layers: 4 - 4



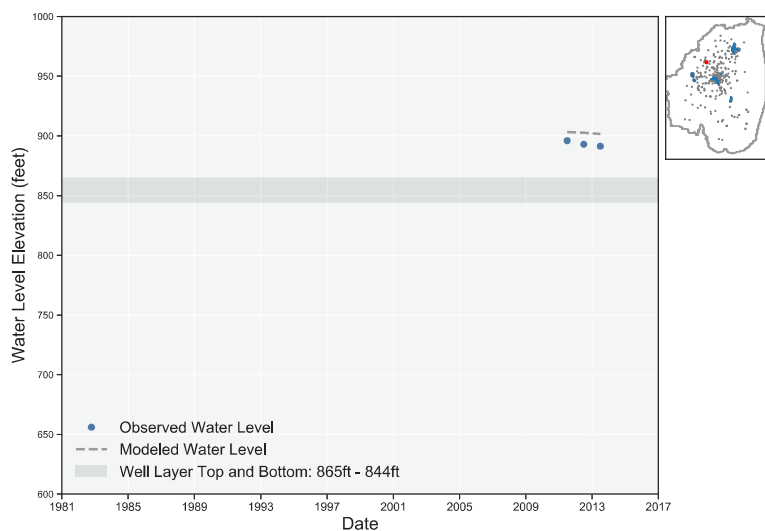
Well 620718 - Aq: QWTA Layers: 4 - 4



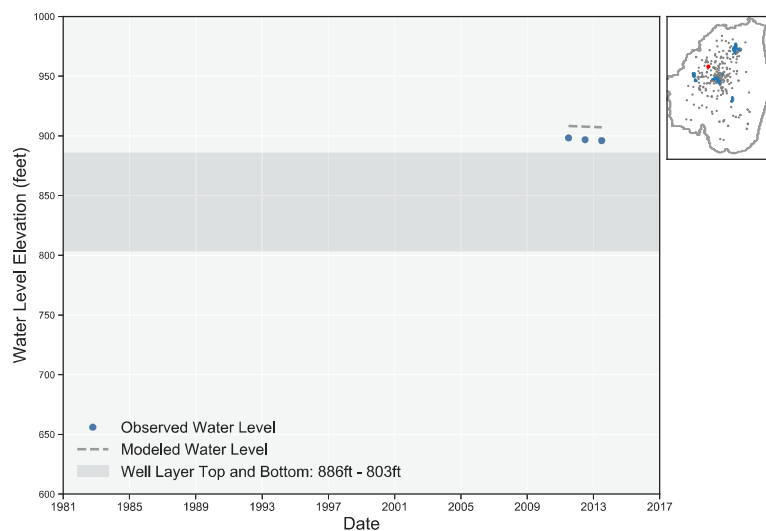
Well 435278 - Aq: QBAA Layers: 4 - 4



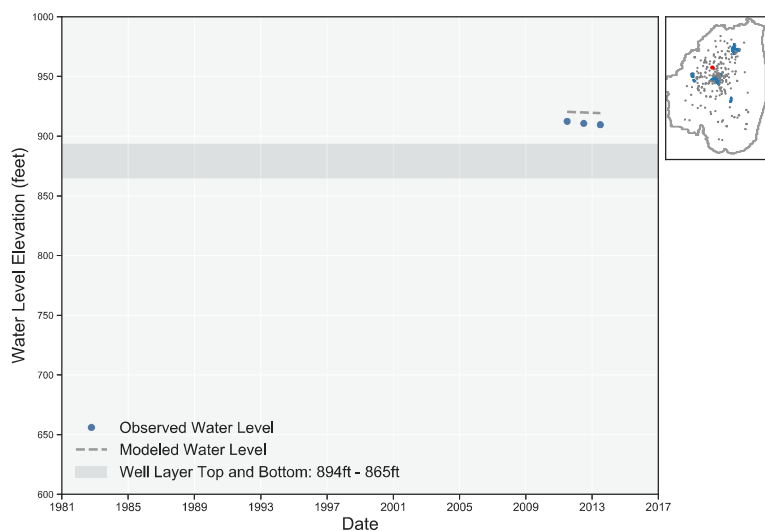
Well 435308 - Aq: QBAA Layers: 4 - 4



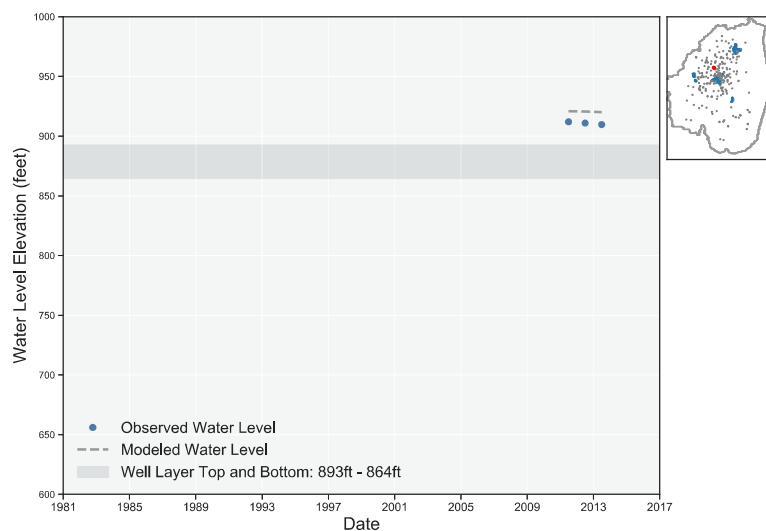
Well 126870 - Aq: QBAA Layers: 4 - 4



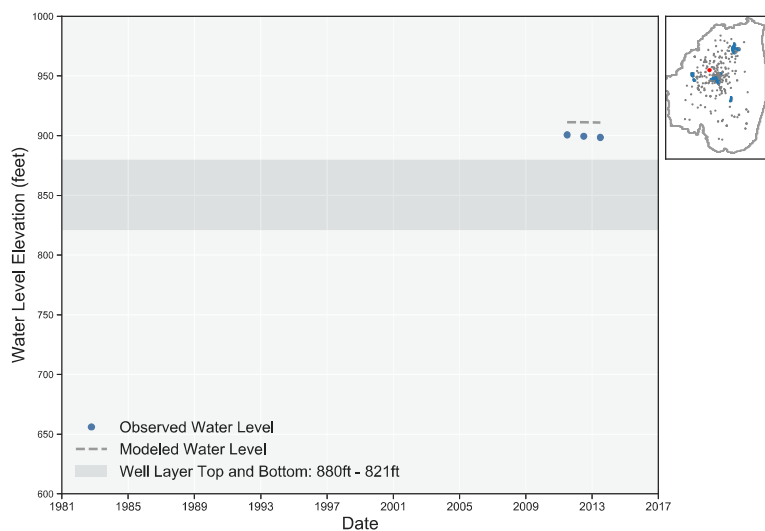
Well 465951 - Aq: QBAA Layers: 4 - 4



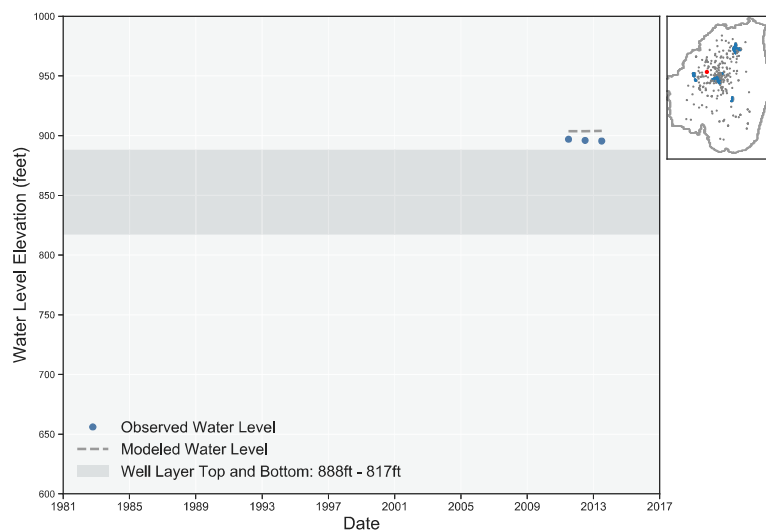
Well 496784 - Aq: QBAA Layers: 4 - 4



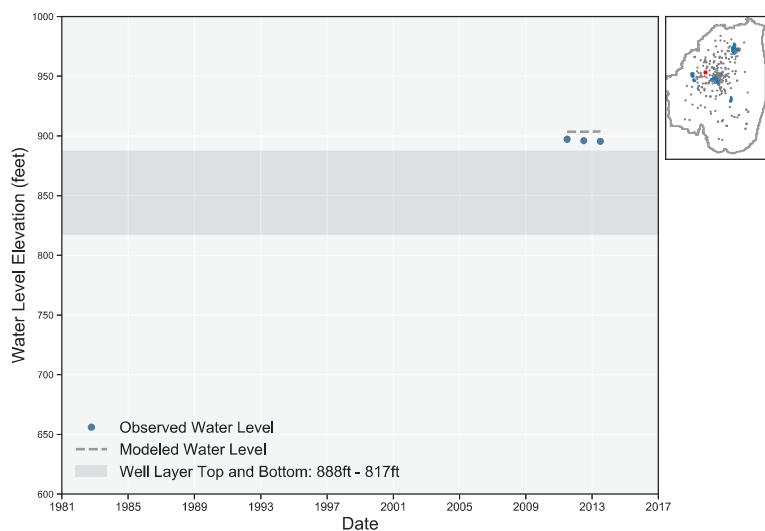
Well 112442 - Aq: QBAA Layers: 4 - 4



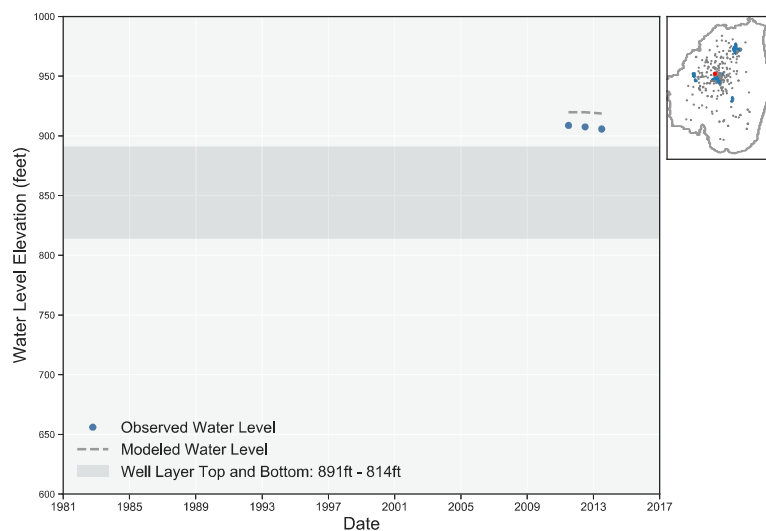
Well 430506 - Aq: QBAA Layers: 4 - 4



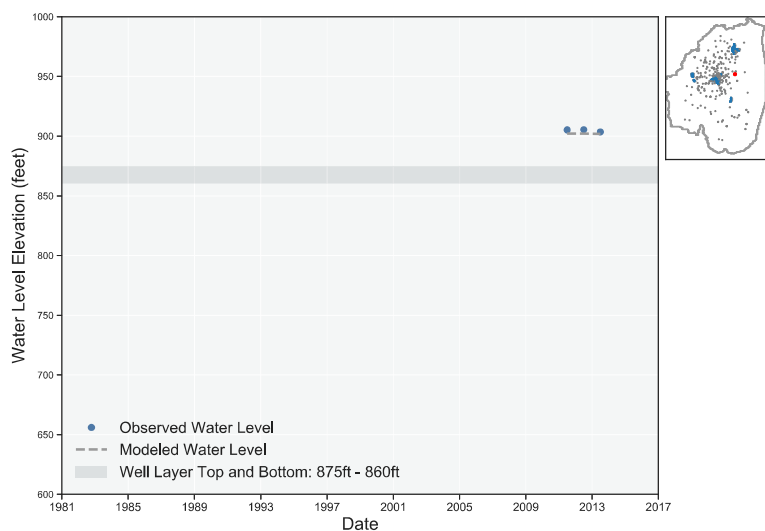
Well 130810 - Aq: QBAA Layers: 4 - 4



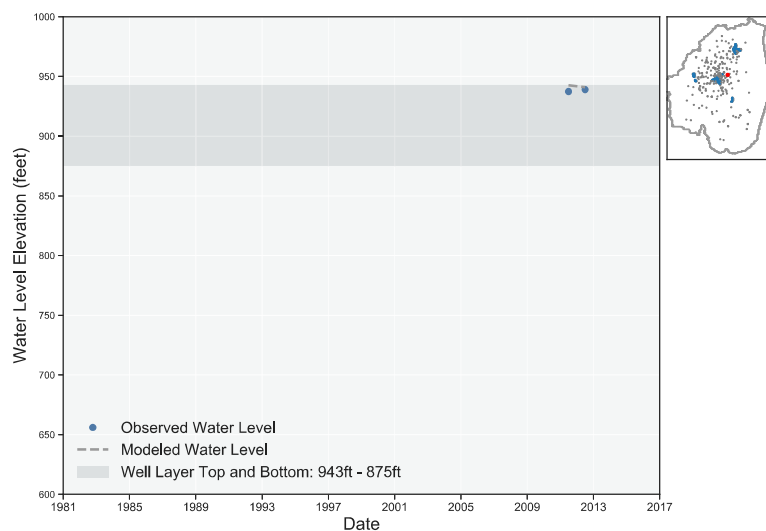
Well 141728 - Aq: Q Layers: 4 - 4



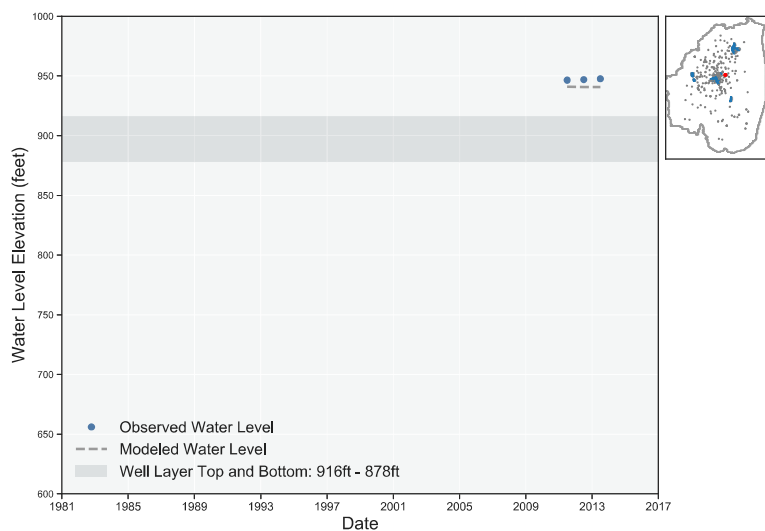
Well 153500 - Aq: QWTA Layers: 4 - 4



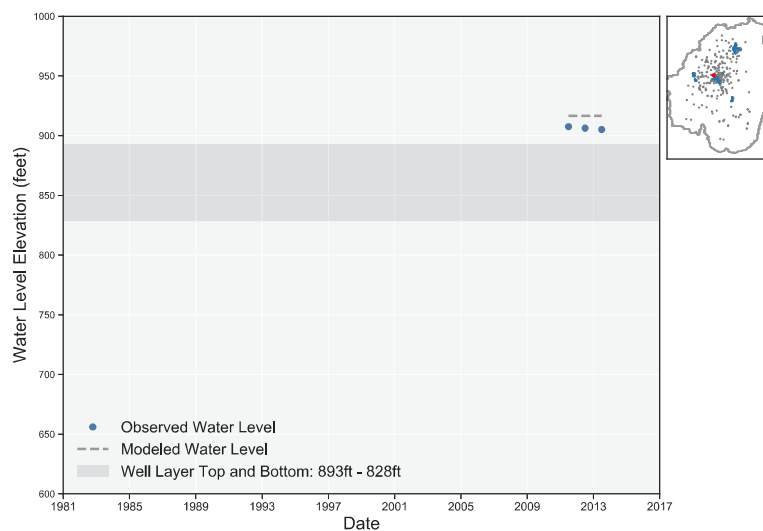
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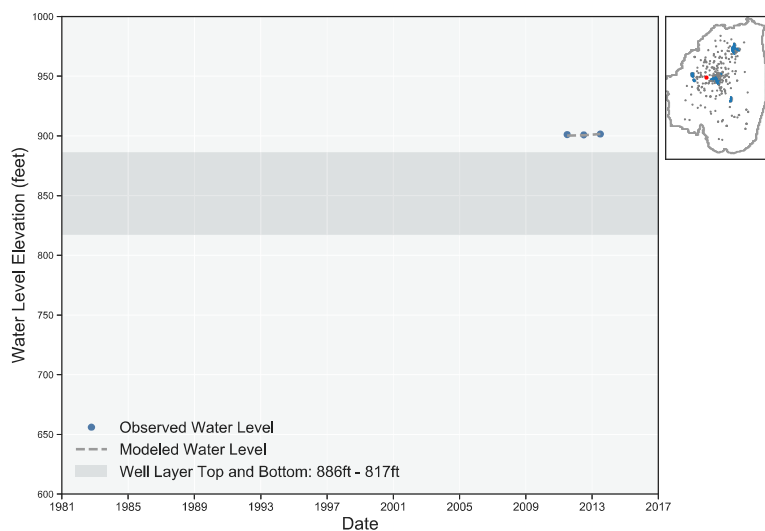
Well 404277 - Aq: QWTA Layers: 4 - 4



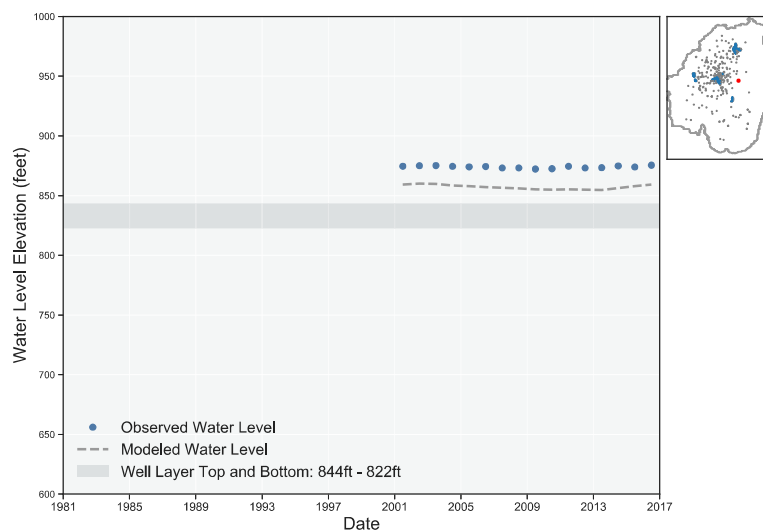
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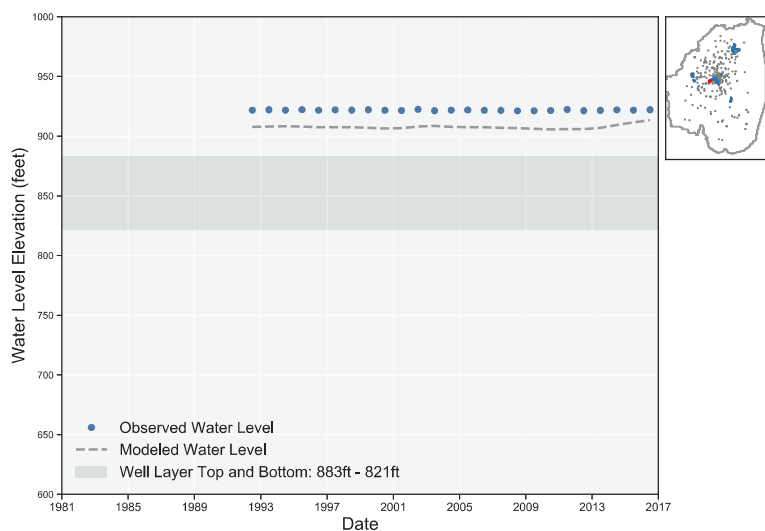
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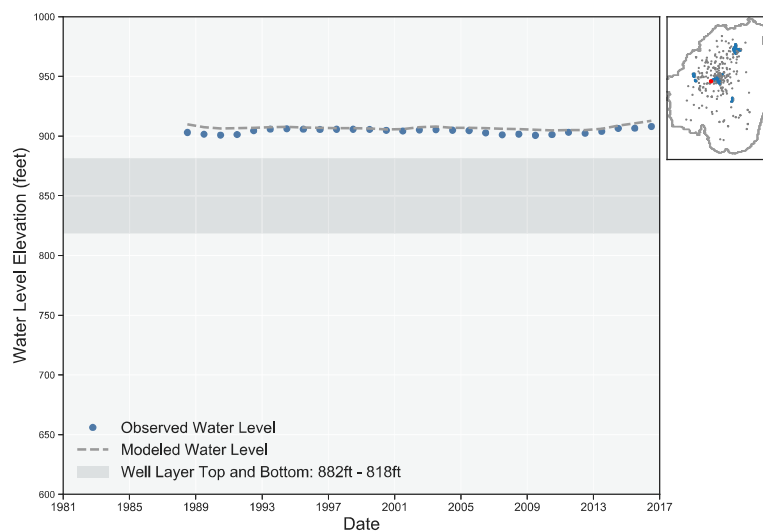
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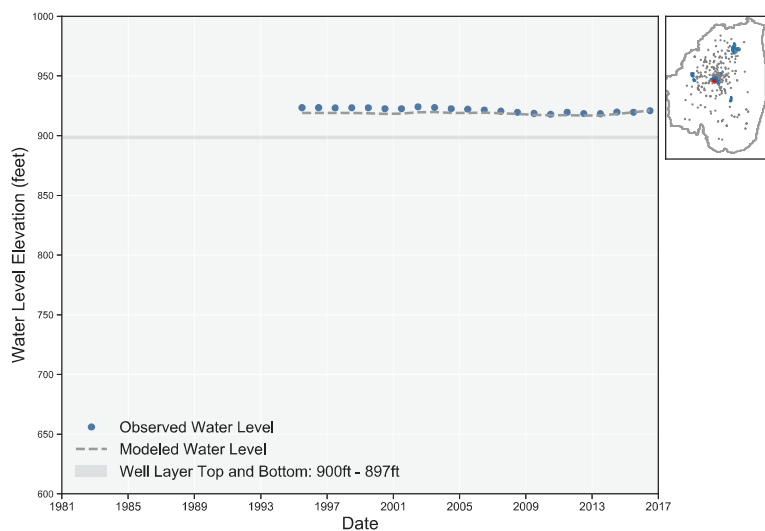
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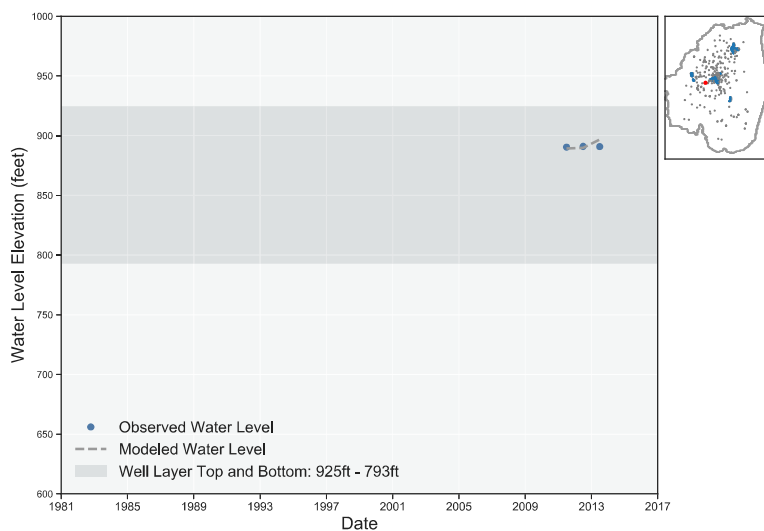
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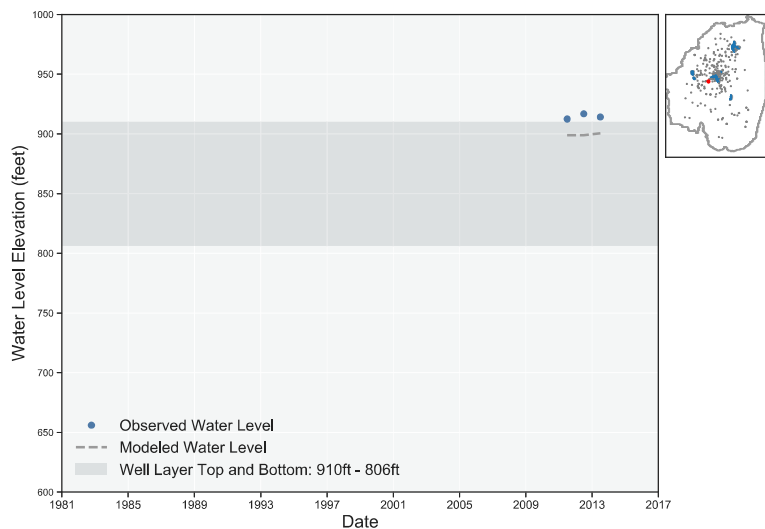
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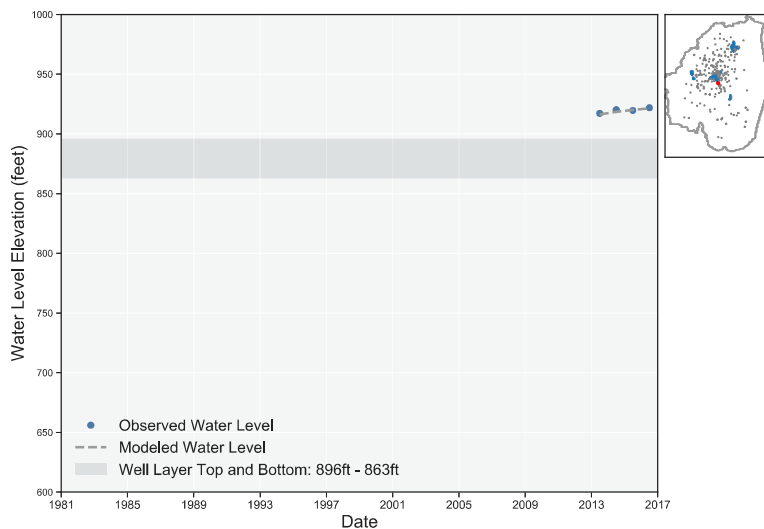
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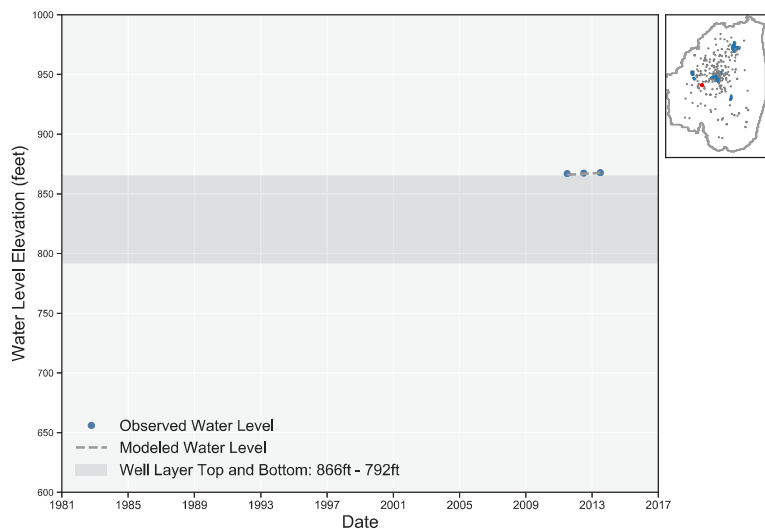
Well 401598 - Aq: QBUA Layers: 4 - 4



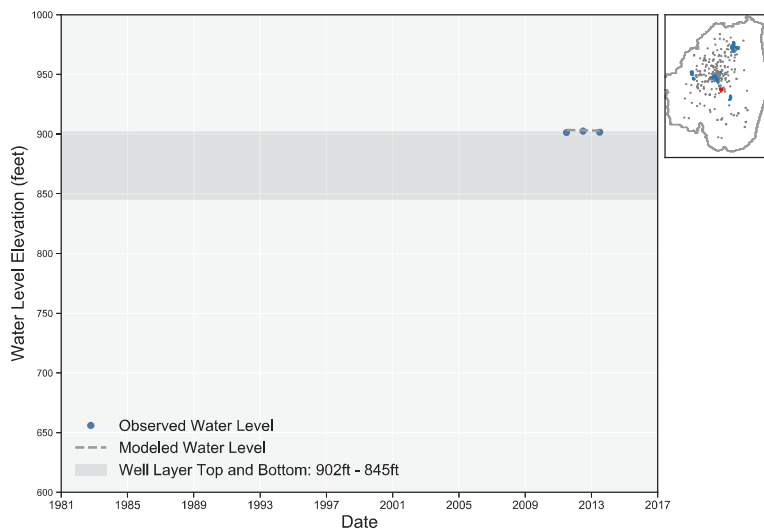
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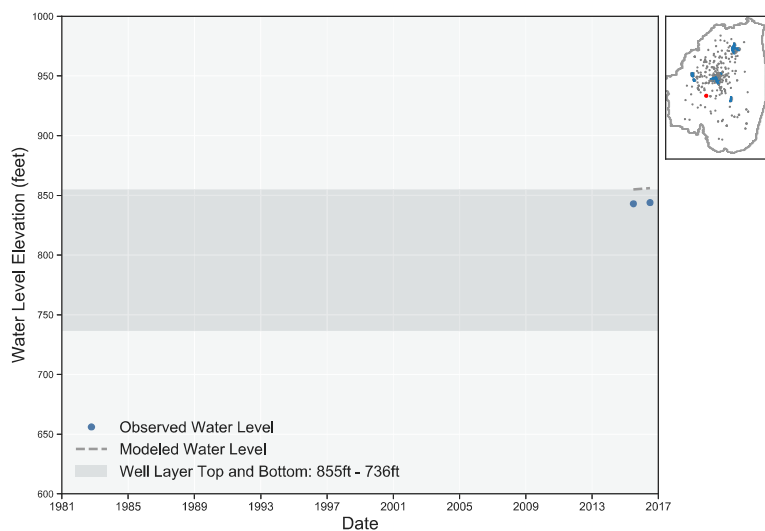
Well 107006 - Aq: QBAA Layers: 4 - 4



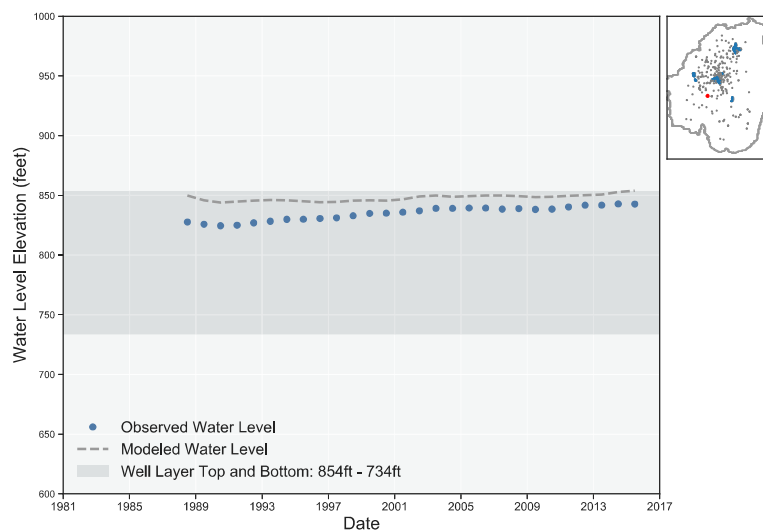
Well 436676 - Aq: QBAA Layers: 4 - 4



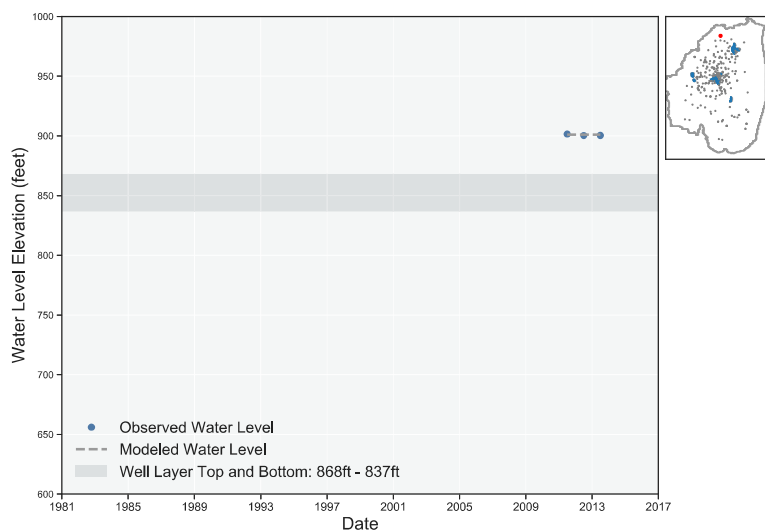
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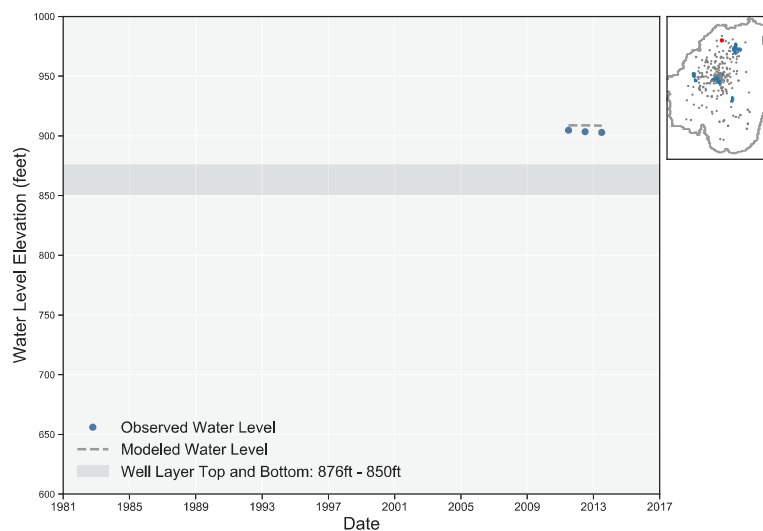
Well 62008 - Aq: QBAA Layers: 4 - 4



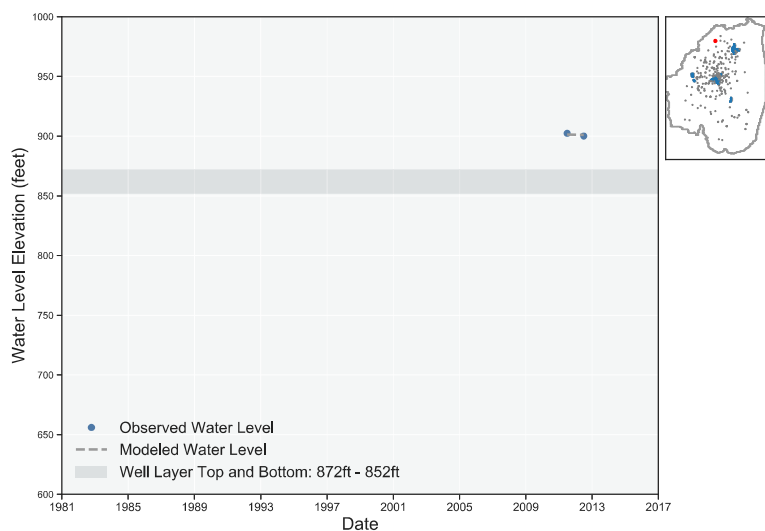
Well 178258 - Aq: QBAA Layers: 5 - 5



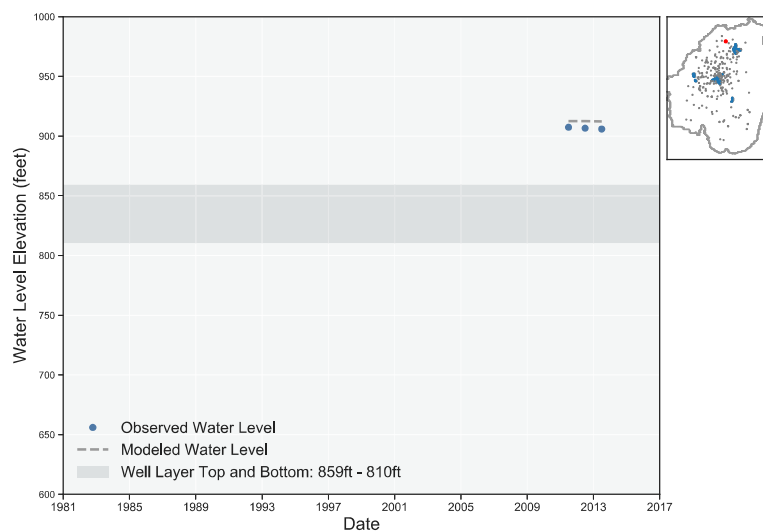
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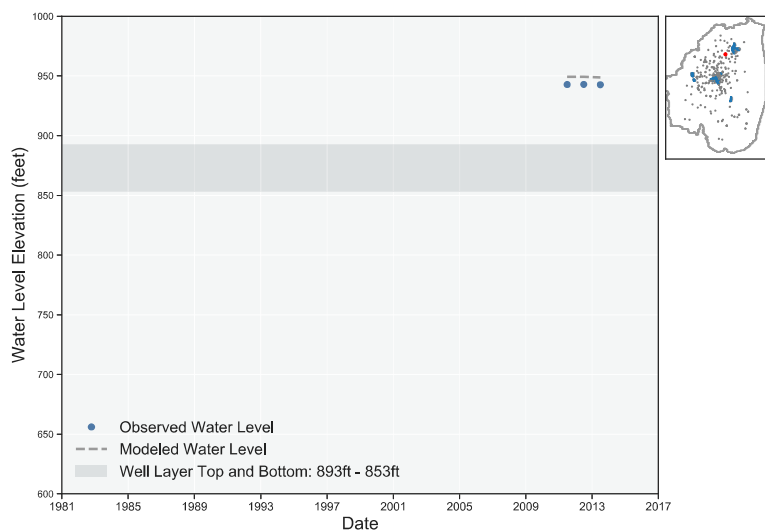
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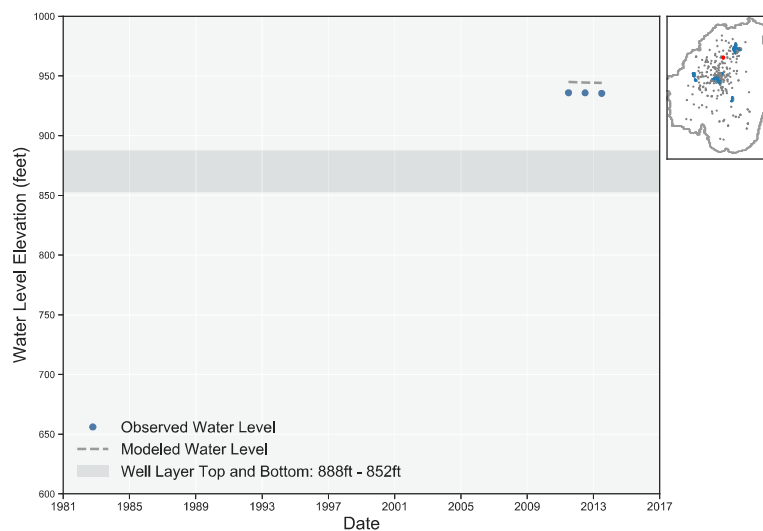
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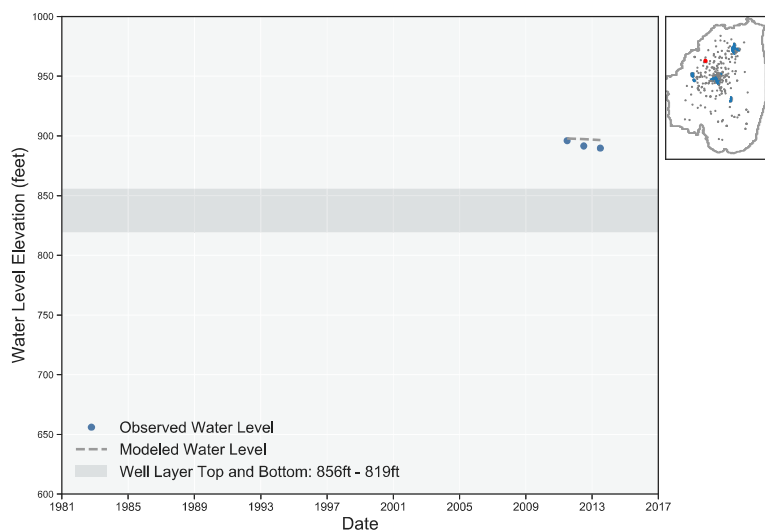
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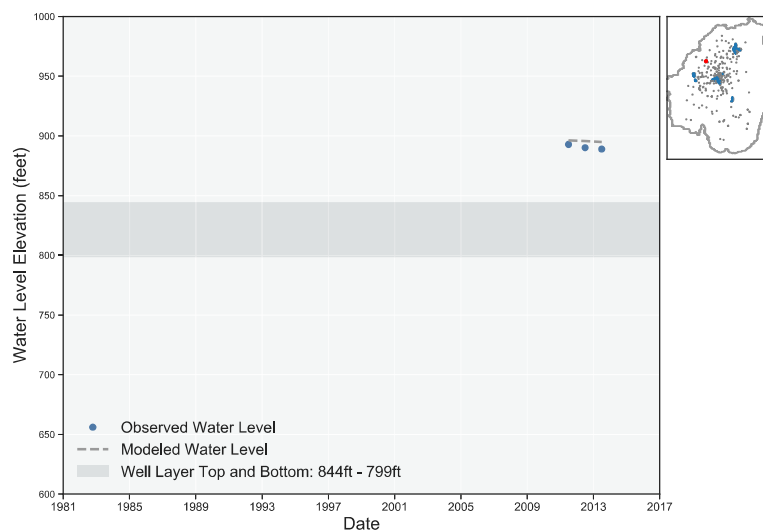
Well 485406 - Aq: OSTP Layers: 5 - 5



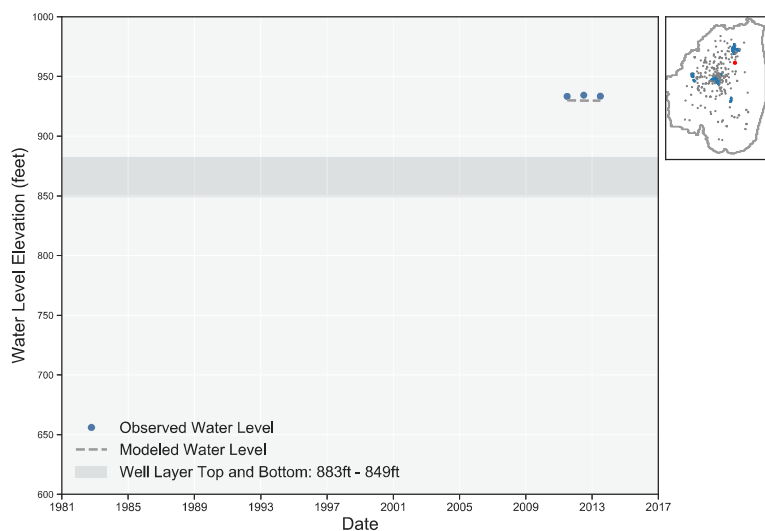
Well 439244 - Aq: OSTP Layers: 5 - 5



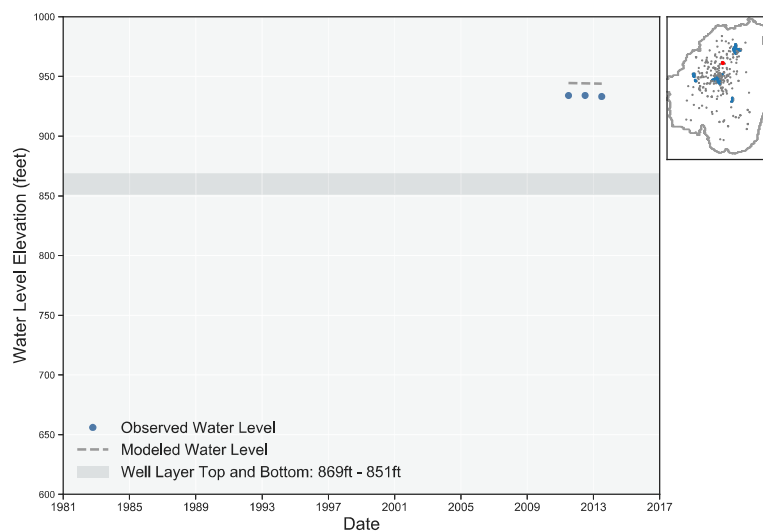
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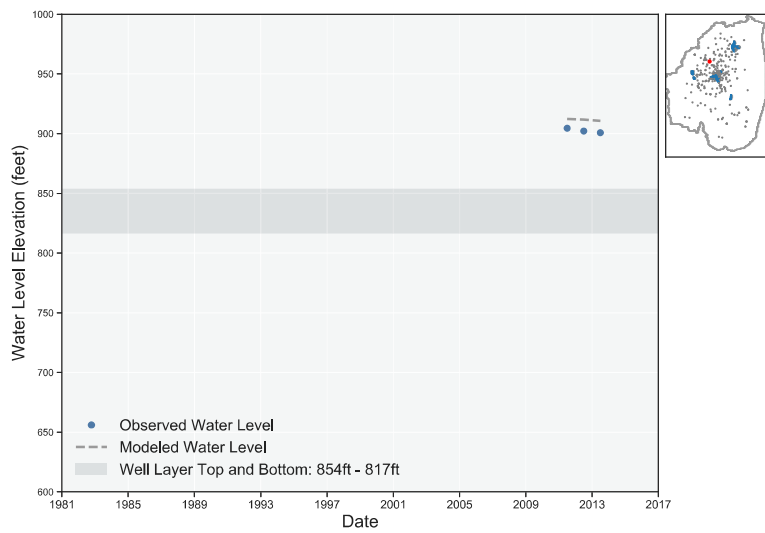
Well 411608 - Aq: QBAA Layers: 5 - 5



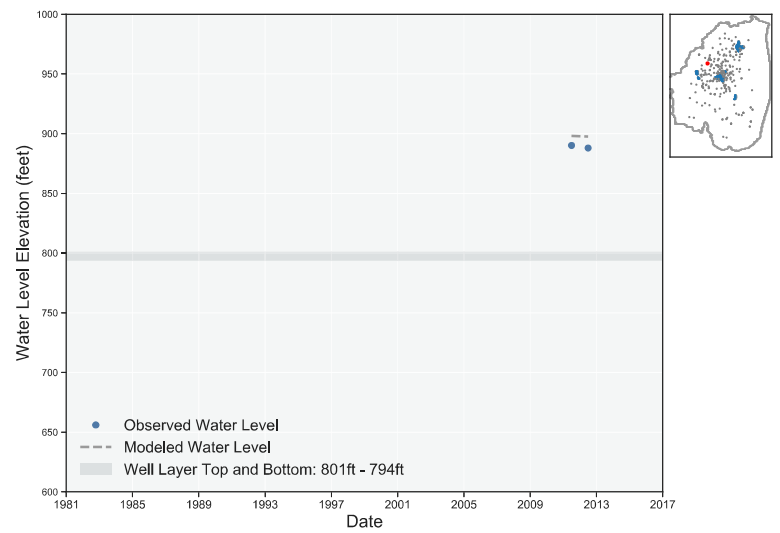
Well 410174 - Aq: OSTP Layers: 5 - 5



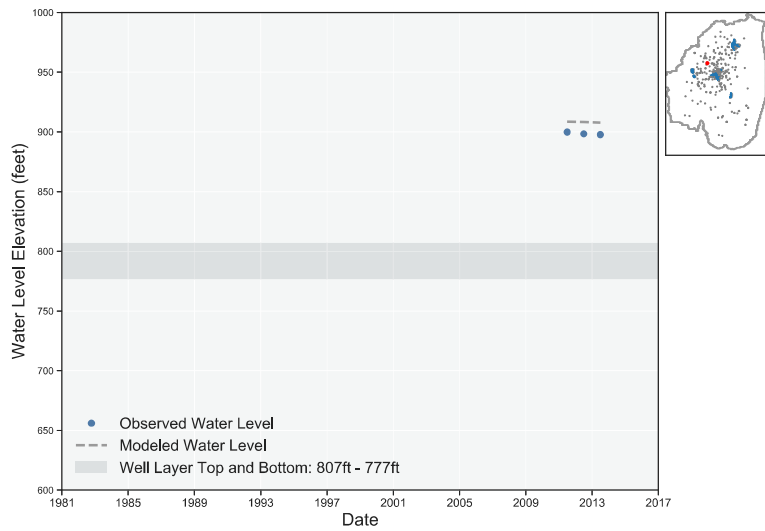
Well 162295 - Aq: OSTP Layers: 5 - 5



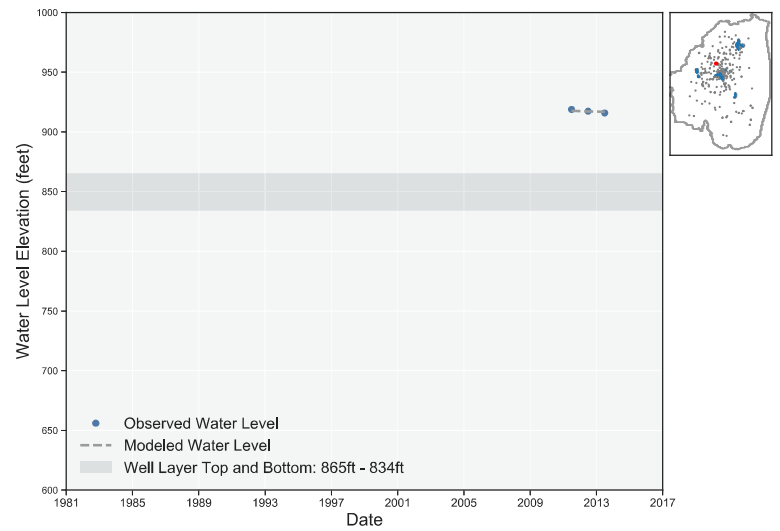
Well 164776 - Aq: OSTP Layers: 5 - 5



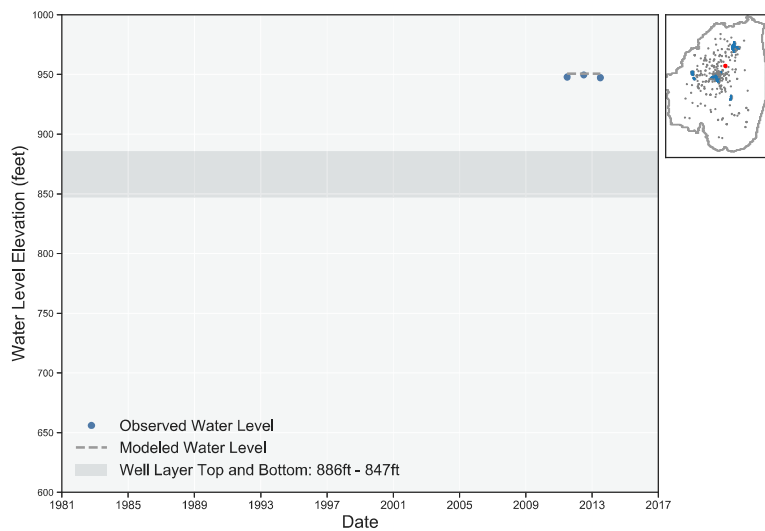
Well 755580 - Aq: OSTP Layers: 5 - 5



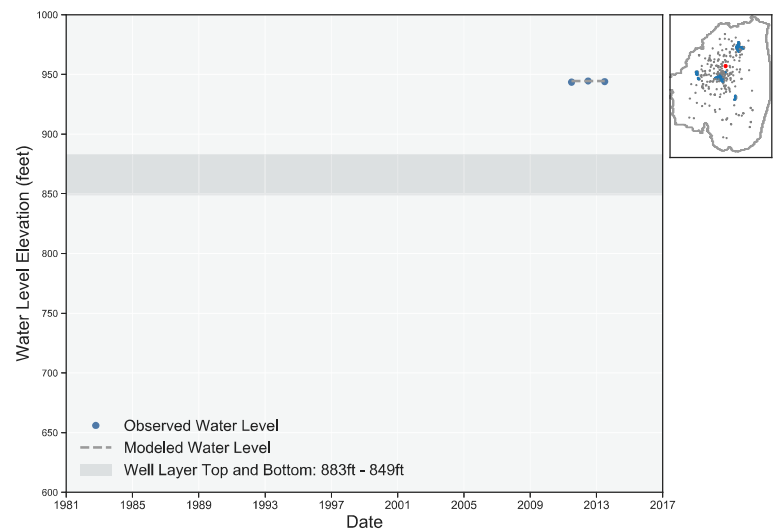
Well 653756 - Aq: QBAA Layers: 5 - 5



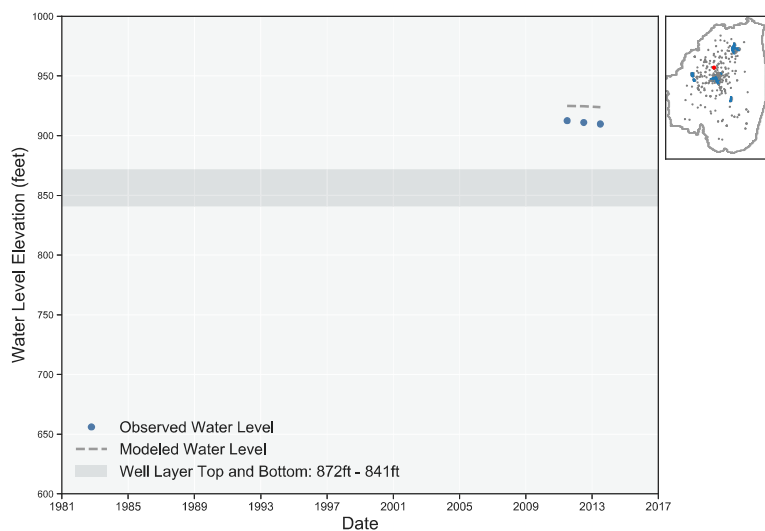
Well 429100 - Aq: OSTP Layers: 5 - 5



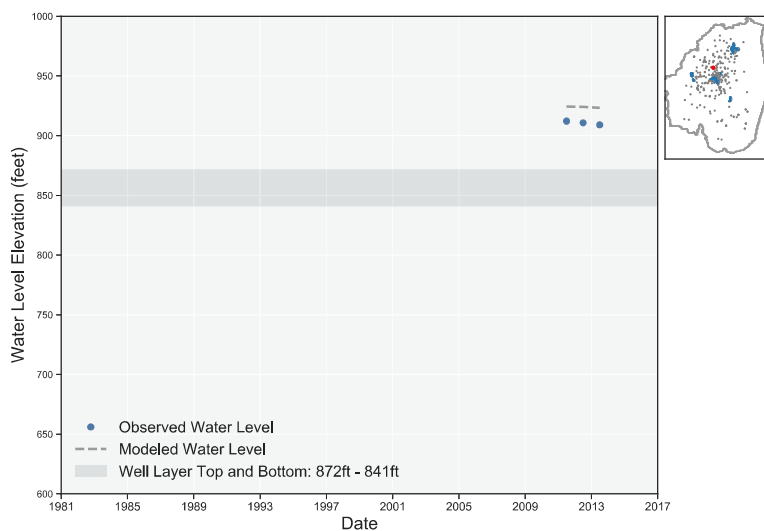
Well 138268 - Aq: OSTP Layers: 5 - 5



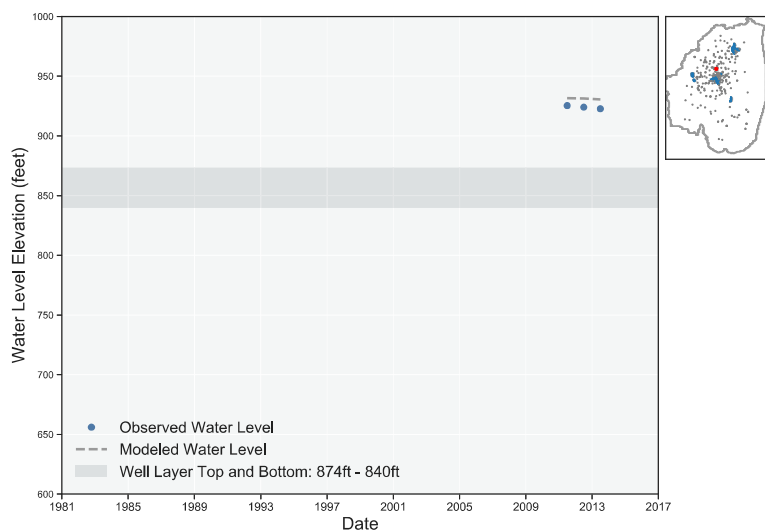
Well 469841 - Aq: QBAA Layers: 5 - 5



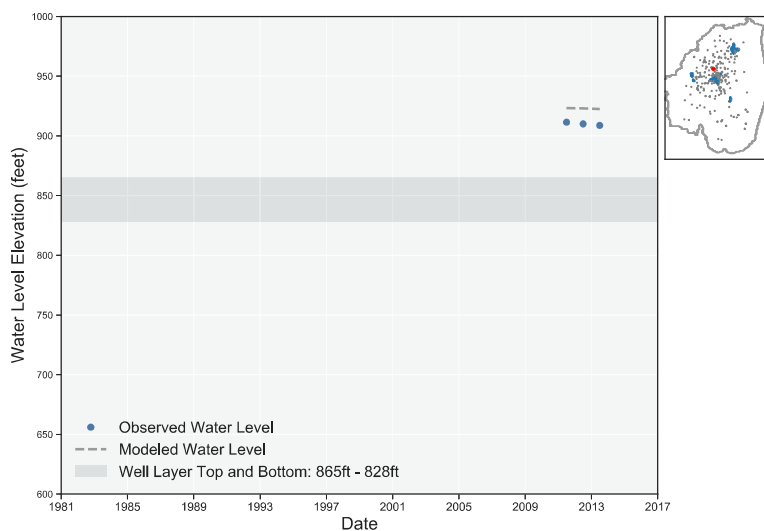
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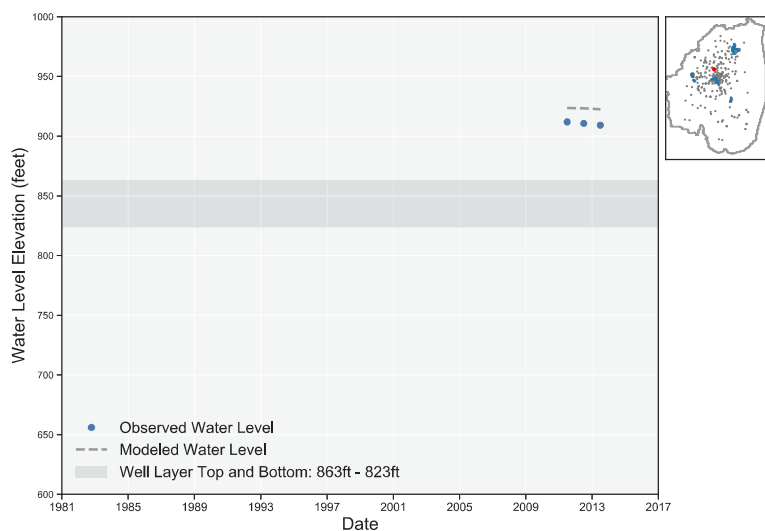
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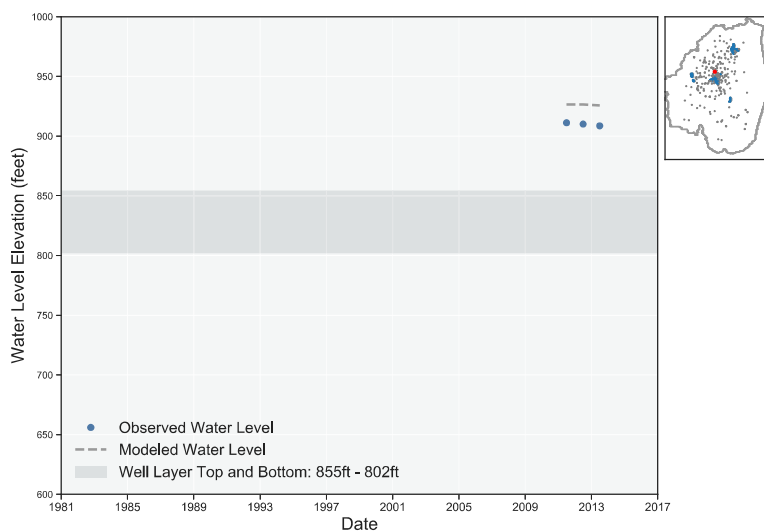
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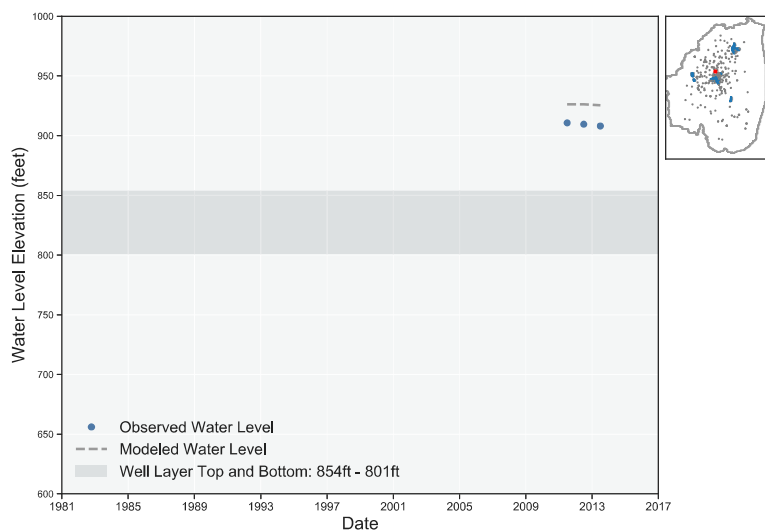
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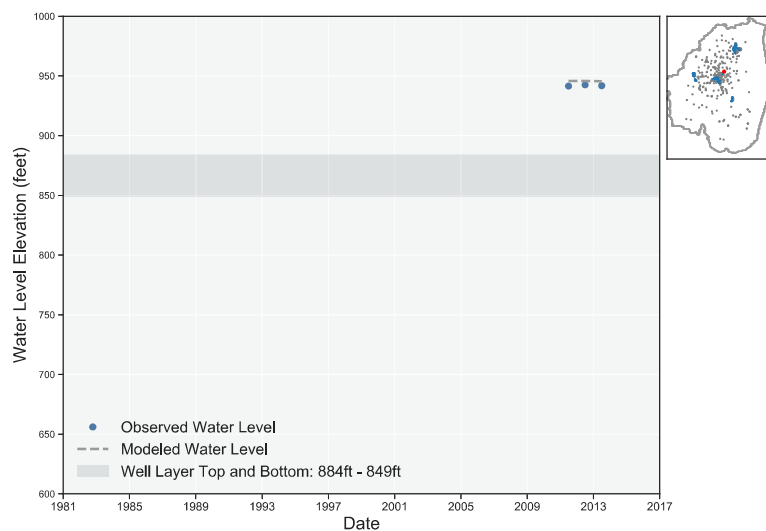
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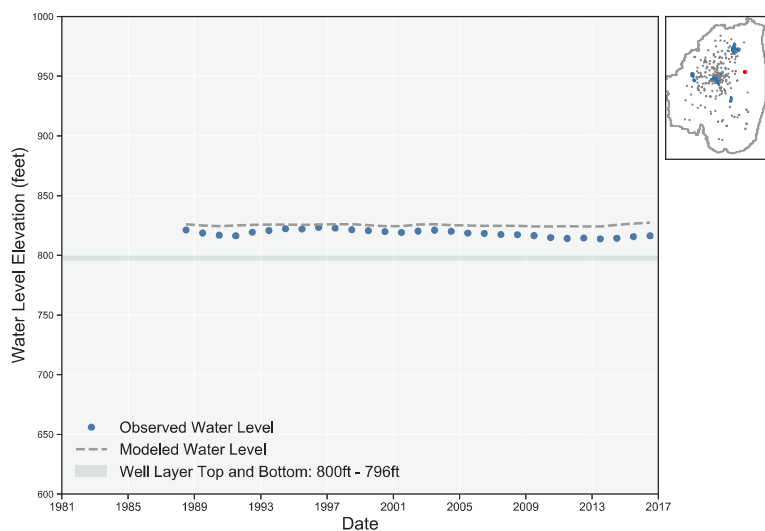
Well 470188 - Aq: QBUA Layers: 5 - 5



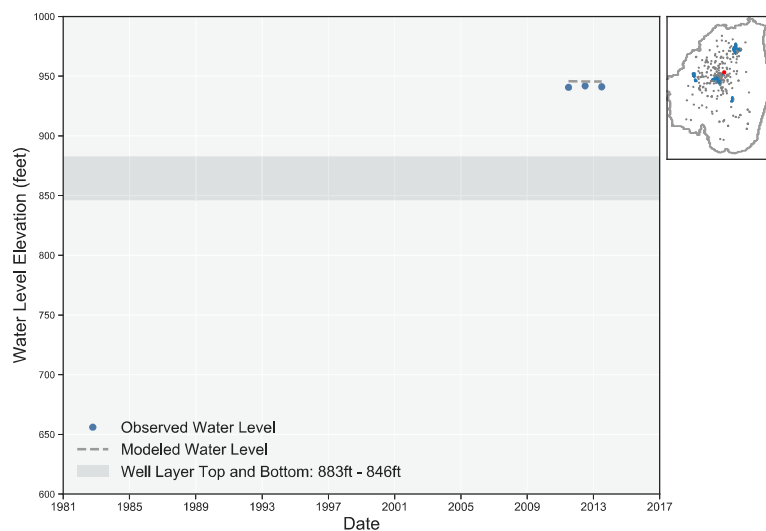
Well 182934 - Aq: OSTP Layers: 5 - 5



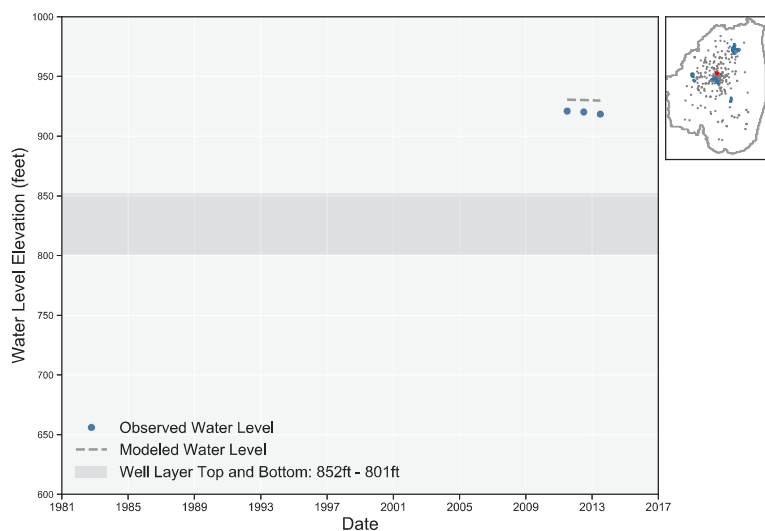
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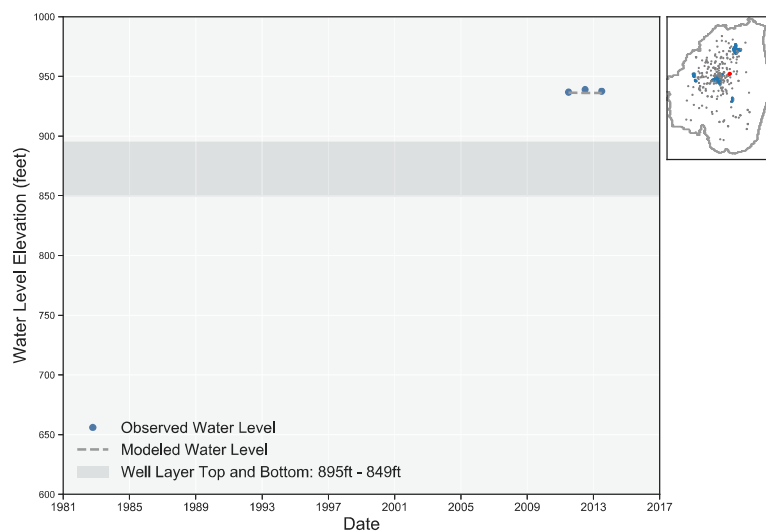
Well 407054 - Aq: OSTP Layers: 5 - 5



Well 182779 - Aq: MTPL Layers: 5 - 5



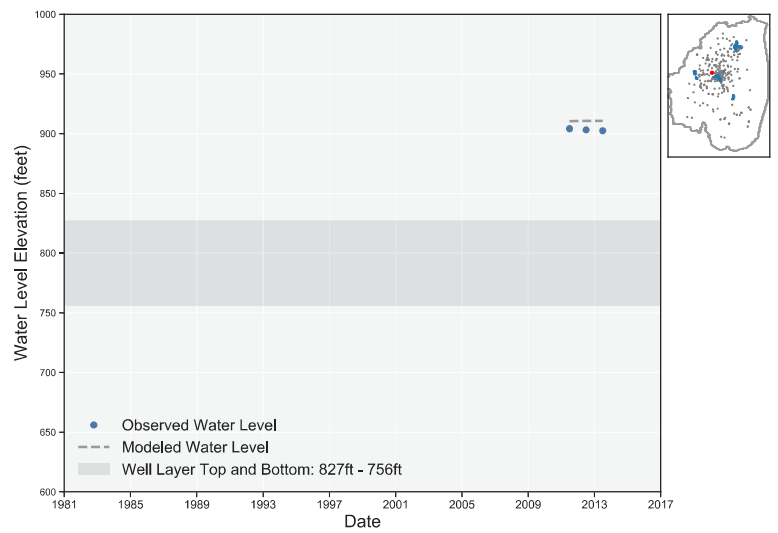
Well 437320 - Aq: OPDC Layers: 5 - 5



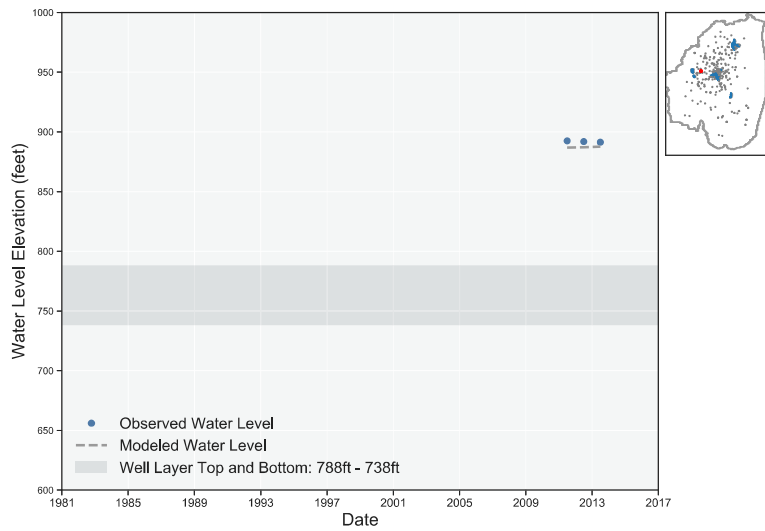
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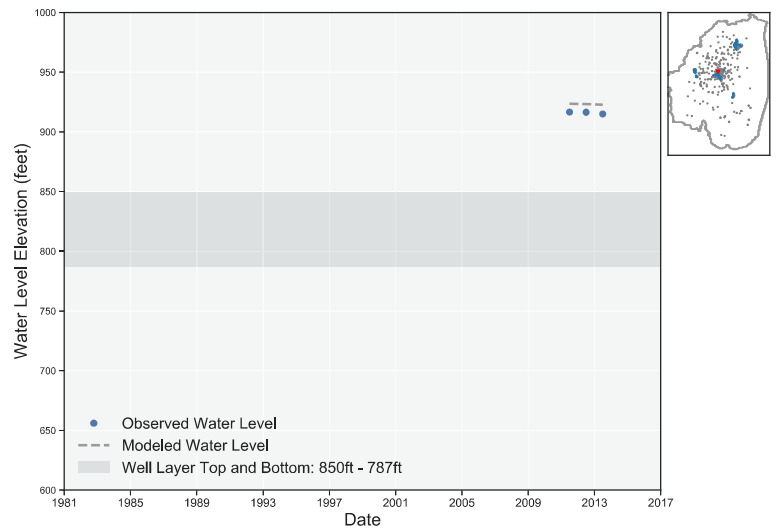
Well 410974 - Aq: OSTP Layers: 5 - 5



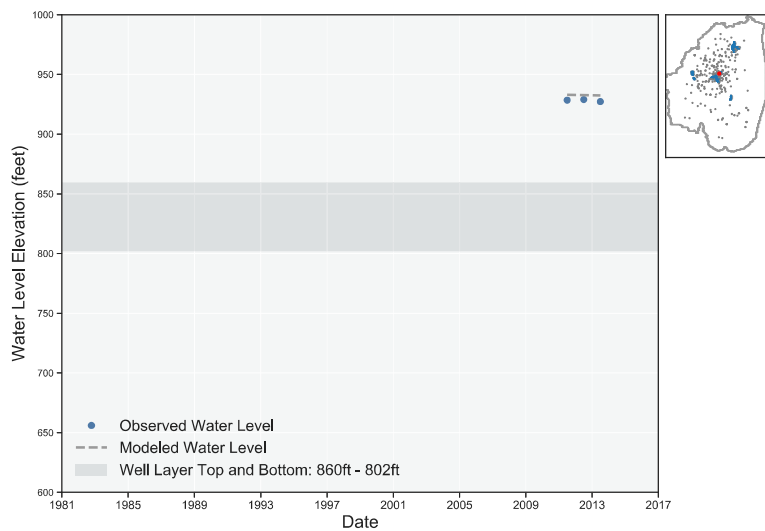
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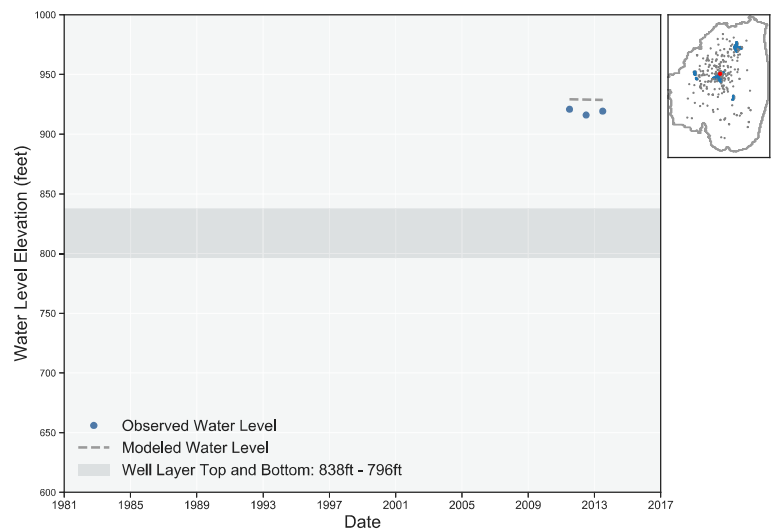
Well 130874 - Aq: OSTP Layers: 5 - 5



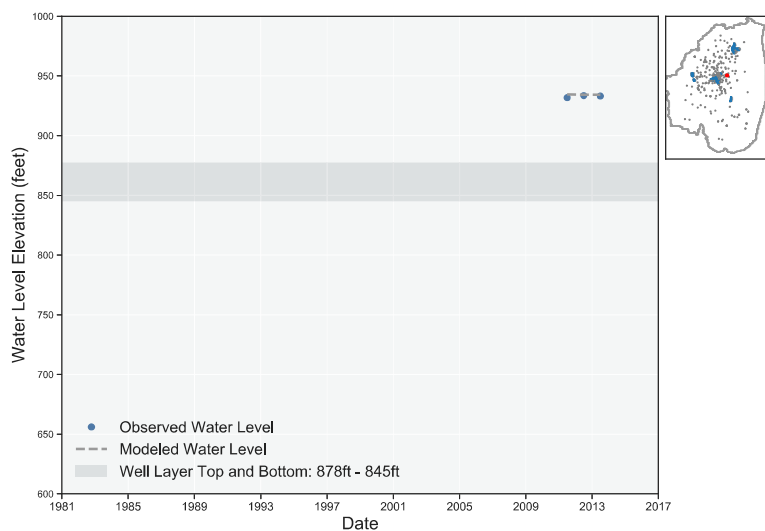
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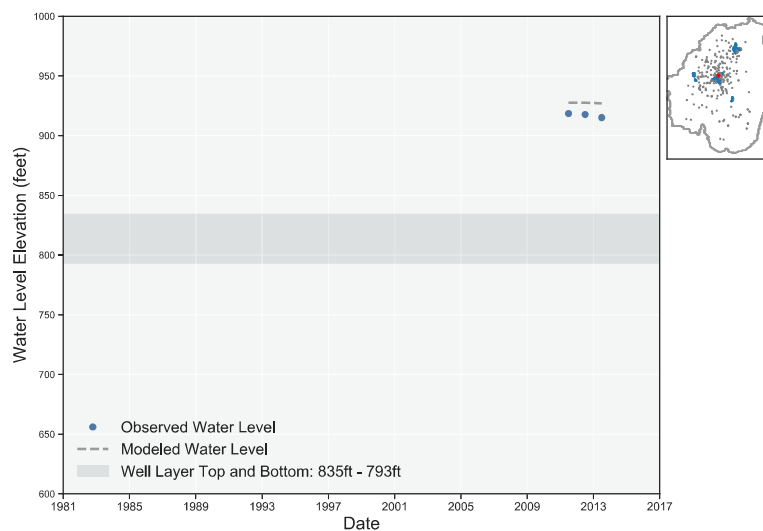
Well 178281 - Aq: OSTP Layers: 5 - 5



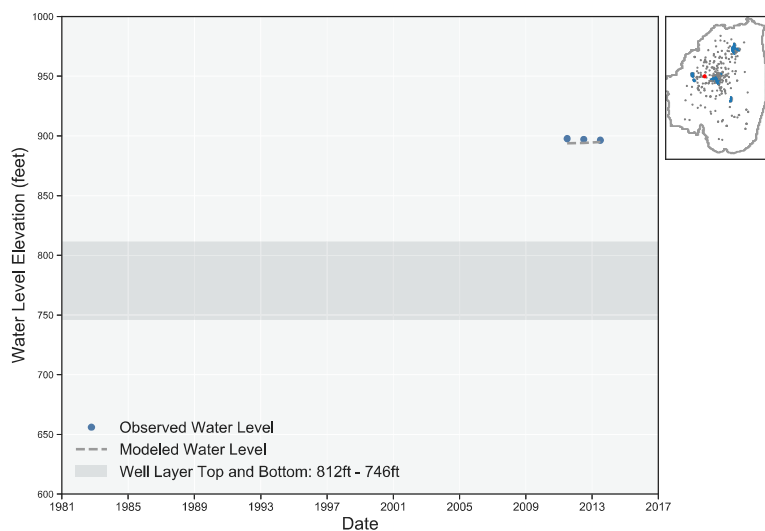
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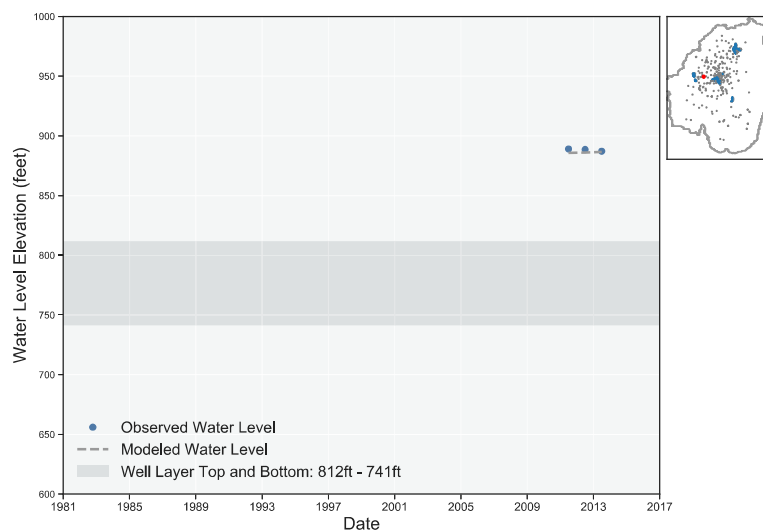
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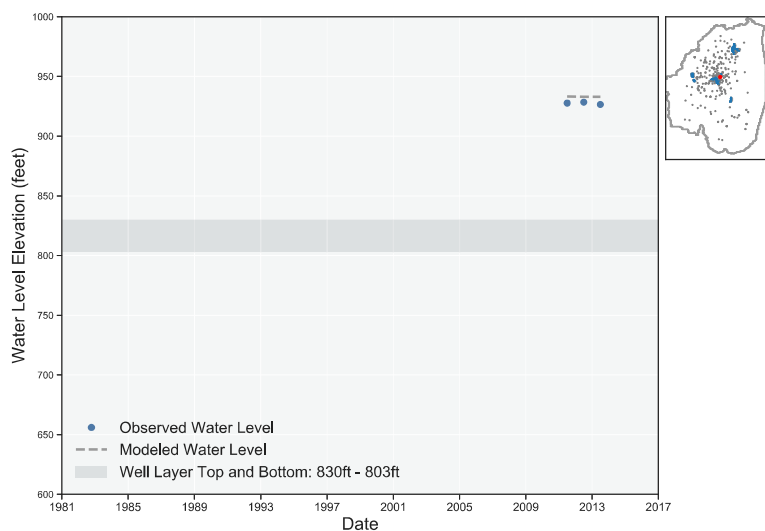
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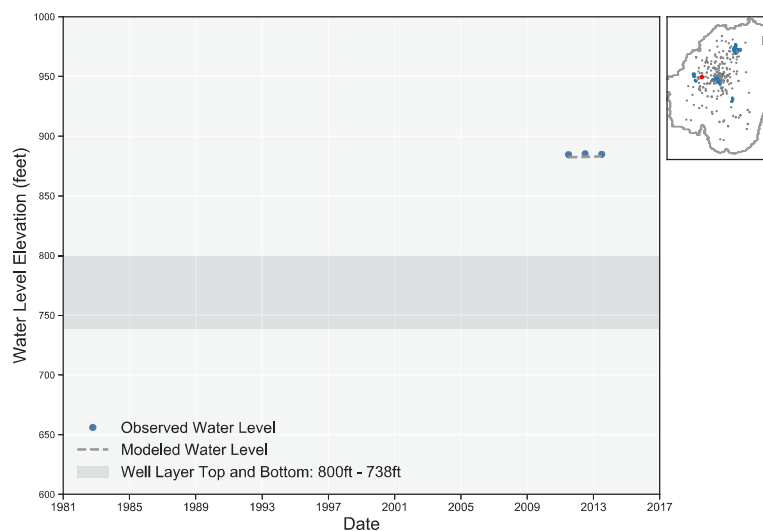
Well 205720 - Aq: OSTP Layers: 5 - 5



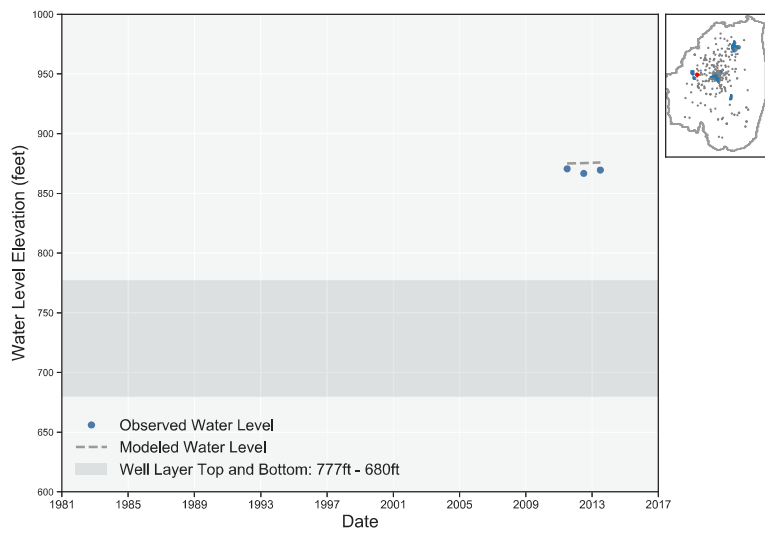
Well 112480 - Aq: OSTP Layers: 5 - 5



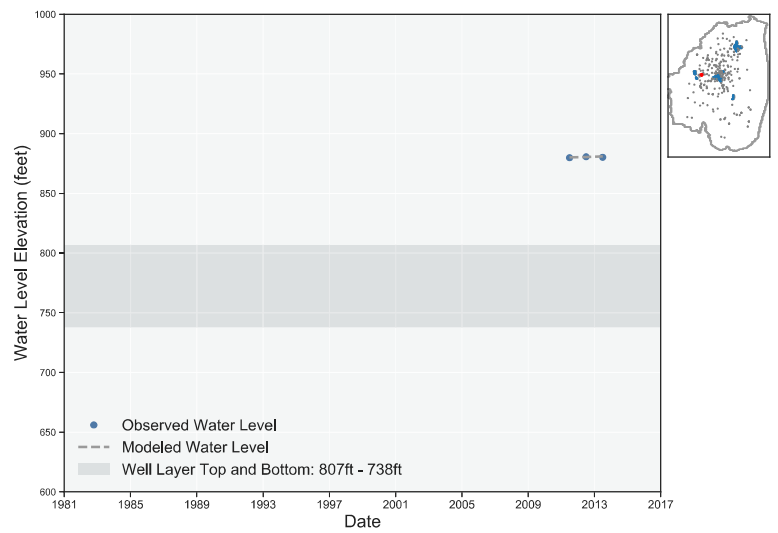
Well 430525 - Aq: OSTP Layers: 5 - 5



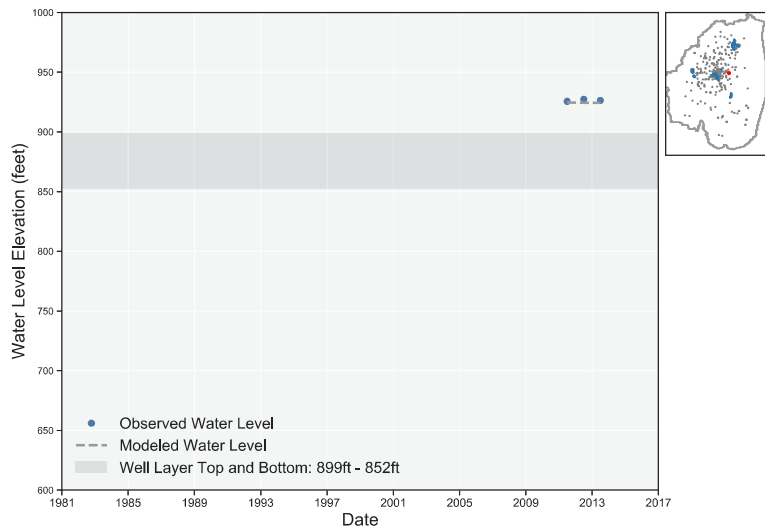
Well 405703 - Aq: OSTP Layers: 5 - 5



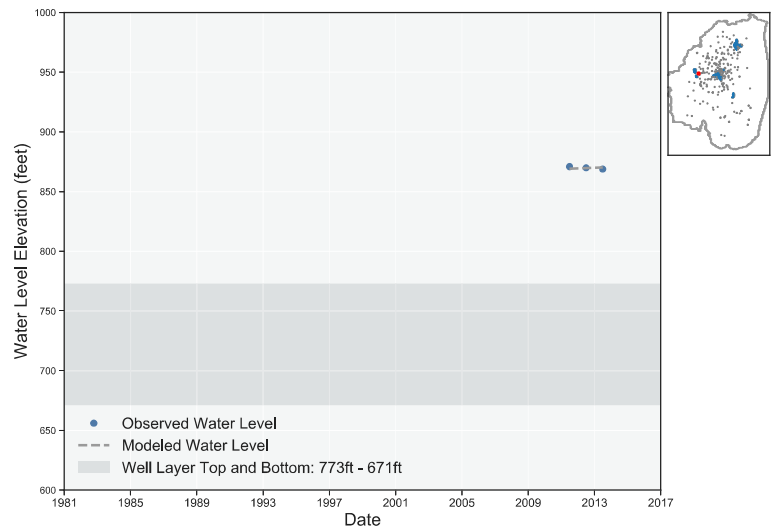
Well 504153 - Aq: OSTP Layers: 5 - 5



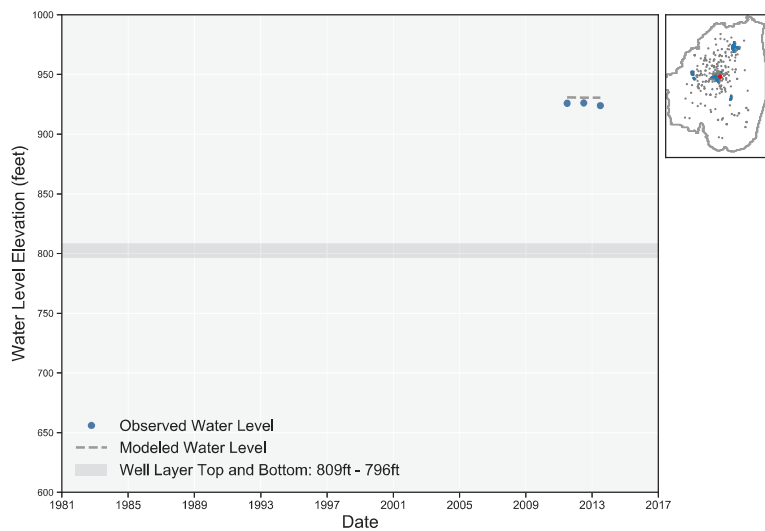
Well 136141 - Aq: OSTP Layers: 5 - 5



Well 436585 - Aq: QBAA Layers: 5 - 5



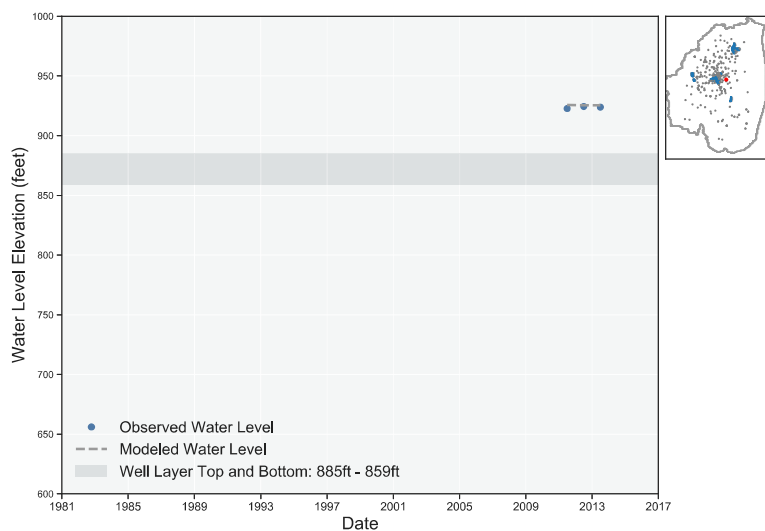
Well 112342 - Aq: OSTP Layers: 5 - 5



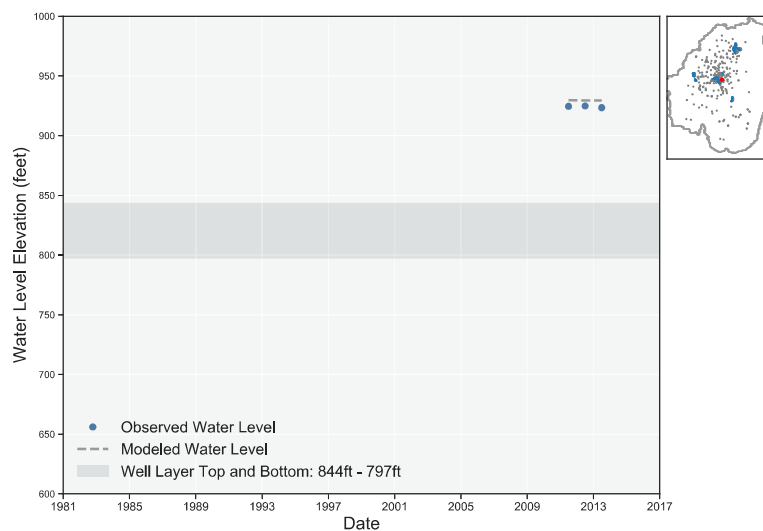
Well 404132 - Aq: QBAA Layers: 5 - 5



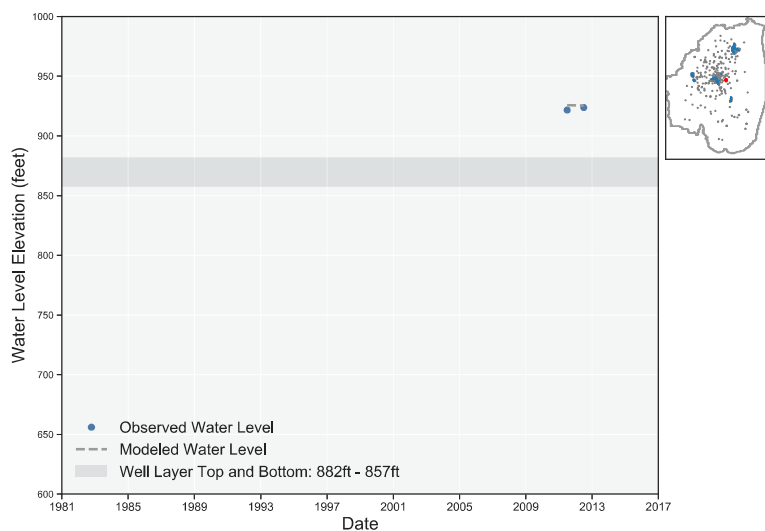
Well 505390 - Aq: OPDC Layers: 5 - 5



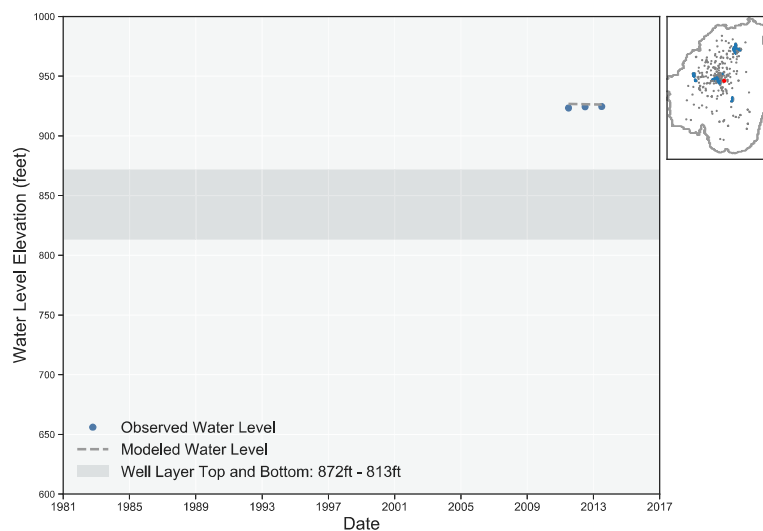
Well 153493 - Aq: OSTP Layers: 5 - 5



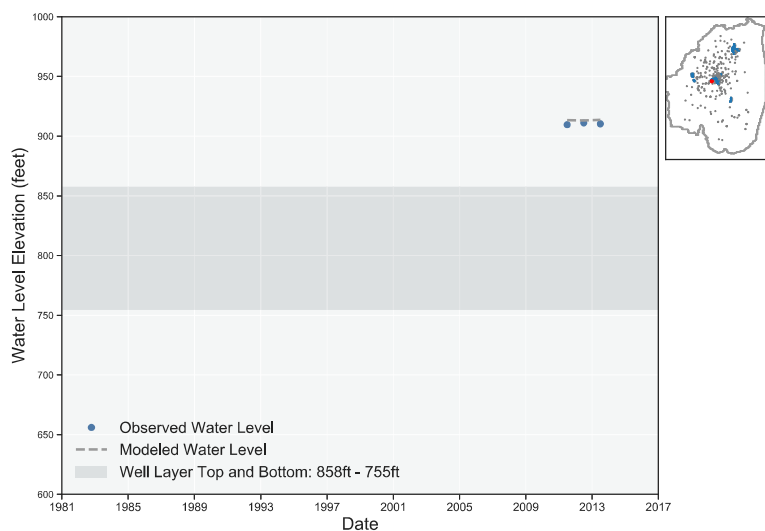
Well 413586 - Aq: OSTP Layers: 5 - 5



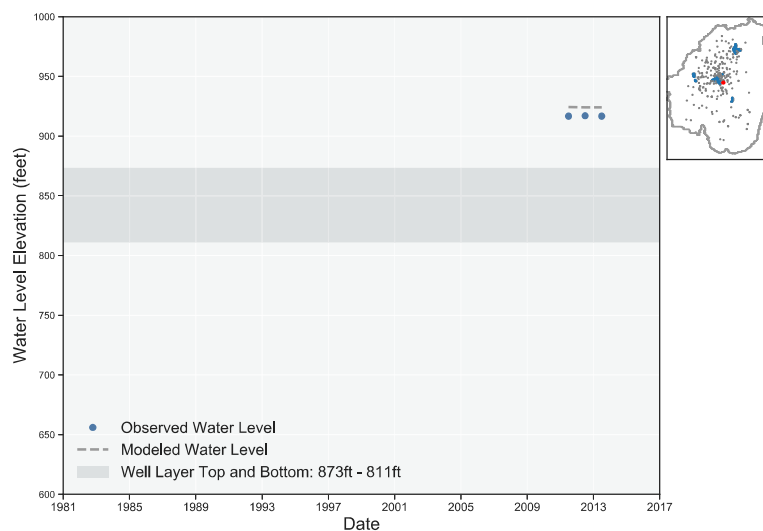
Well 182961 - Aq: OSTP Layers: 5 - 5



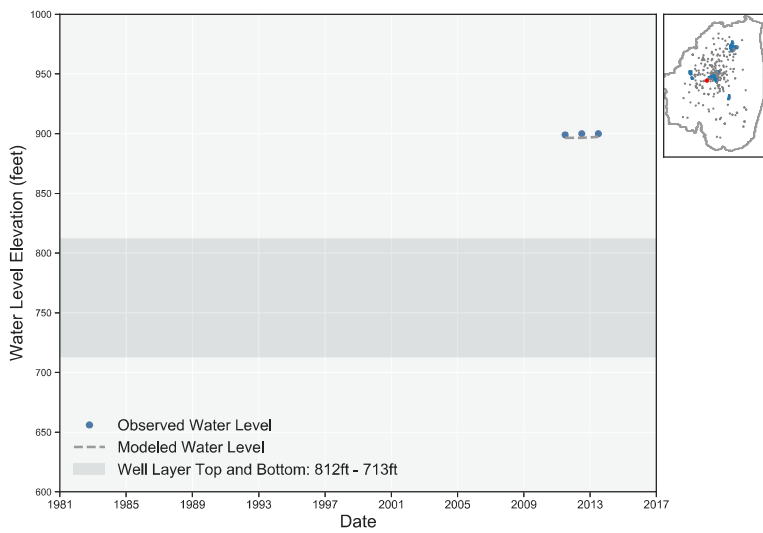
Well 504197 - Aq: OSTP Layers: 5 - 5



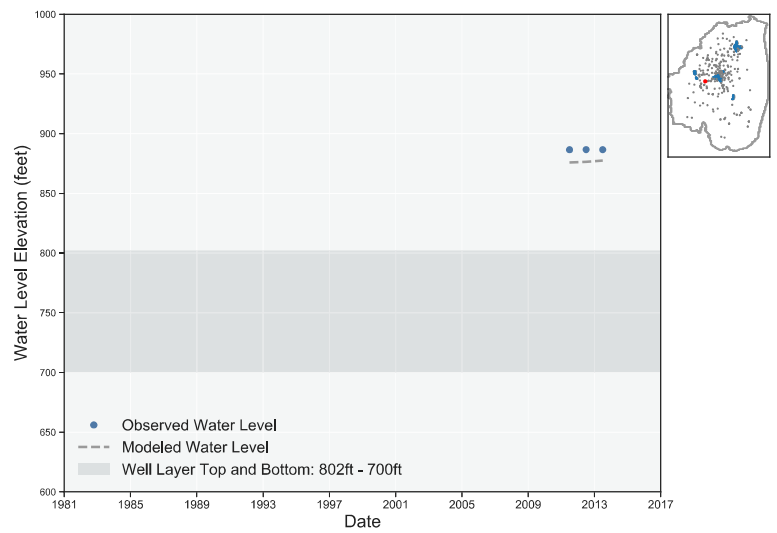
Well 136122 - Aq: OSTP Layers: 5 - 5



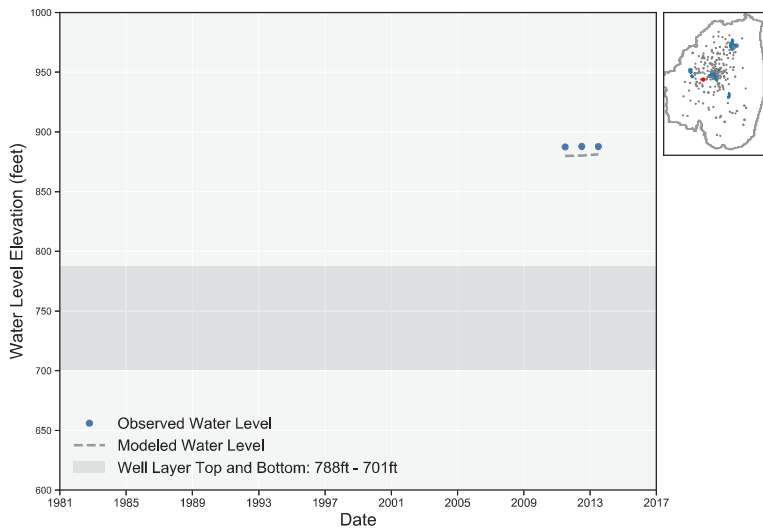
Well 112625 - Aq: OSTP Layers: 5 - 5



Well 145732 - Aq: OSTP Layers: 5 - 5



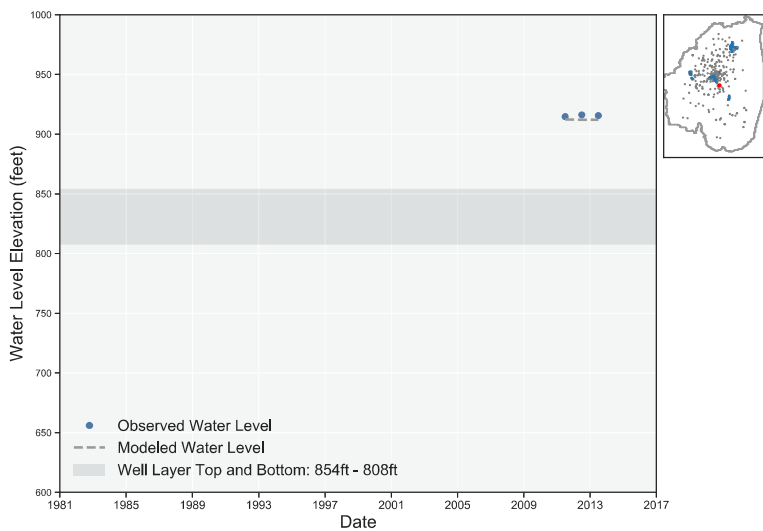
Well 448228 - Aq: QBAA Layers: 5 - 5



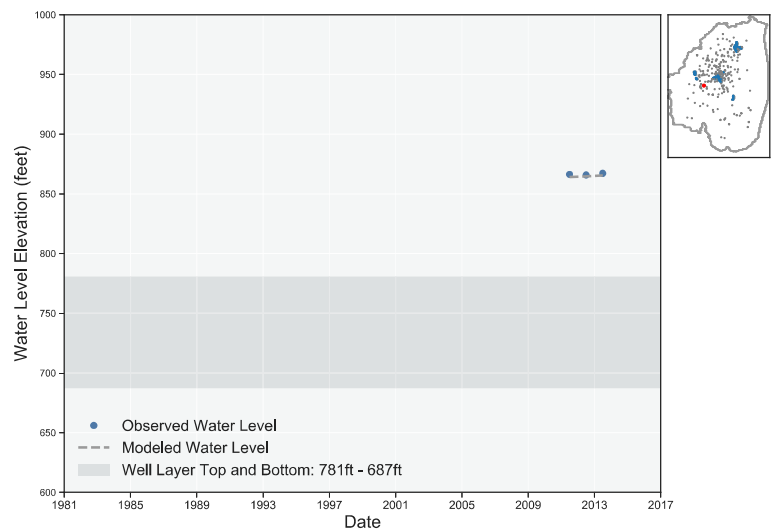
Well 130876 - Aq: OSTP Layers: 5 - 5



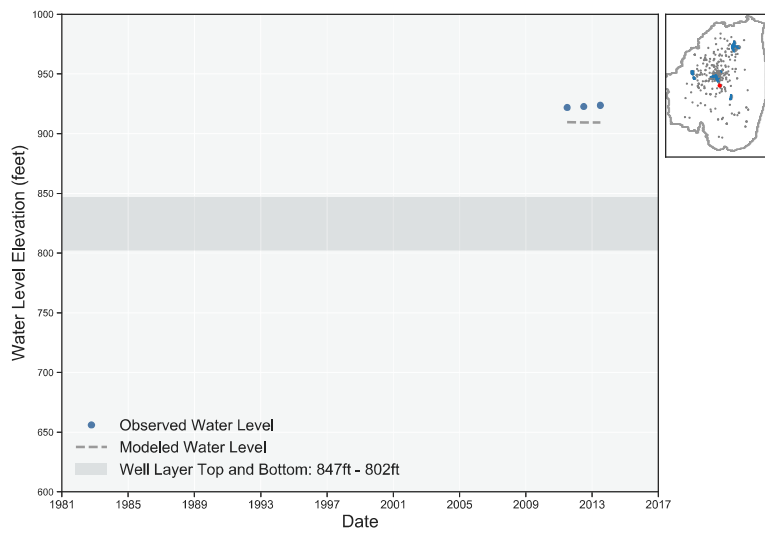
Well 175041 - Aq: OSTP Layers: 5 - 5



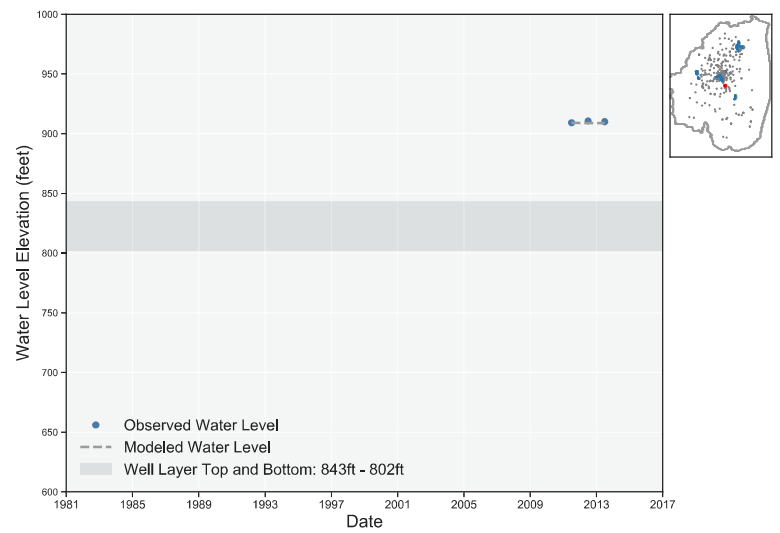
Well 138190 - Aq: OSTP Layers: 5 - 5



Well 138727 - Aq: OSTP Layers: 5 - 5



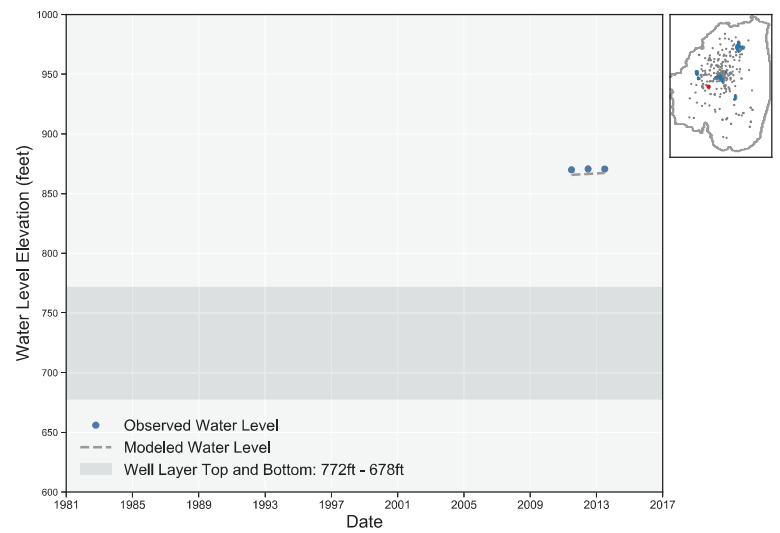
Well 418556 - Aq: OSTP Layers: 5 - 5



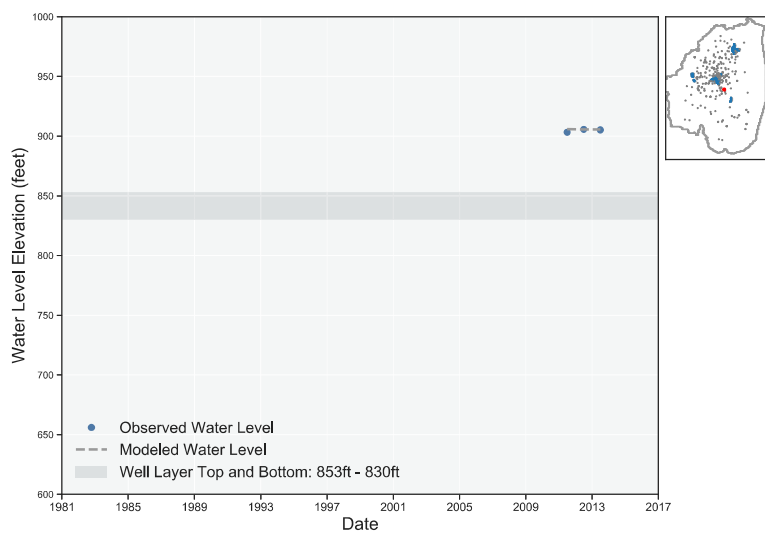
Well 127569 - Aq: OSTP Layers: 5 - 5



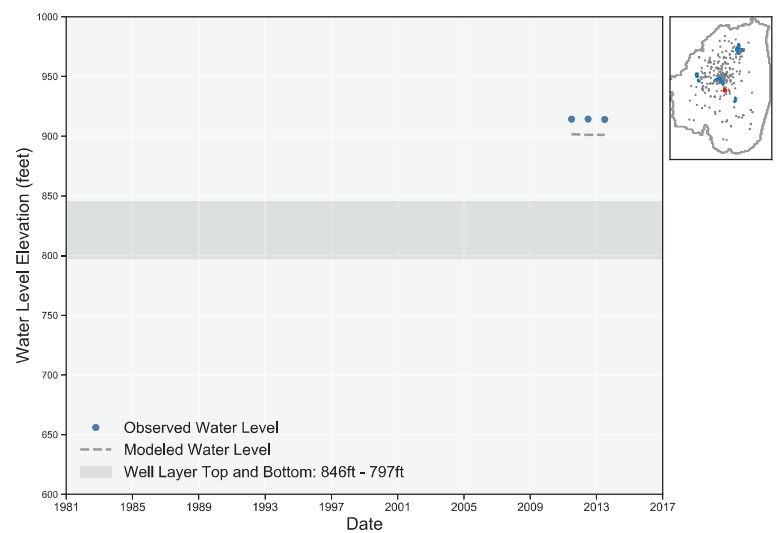
Well 130905 - Aq: OSTP Layers: 5 - 5



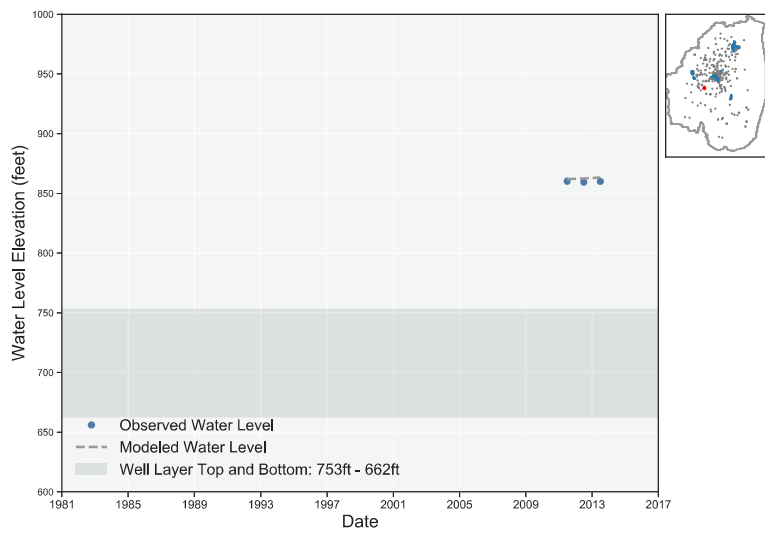
Well 410169 - Aq: OSTP Layers: 5 - 5



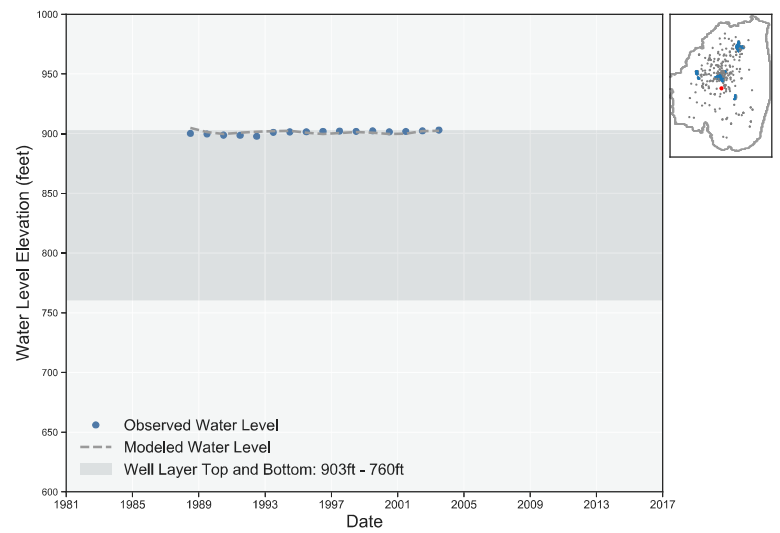
Well 153486 - Aq: QBAA Layers: 5 - 5



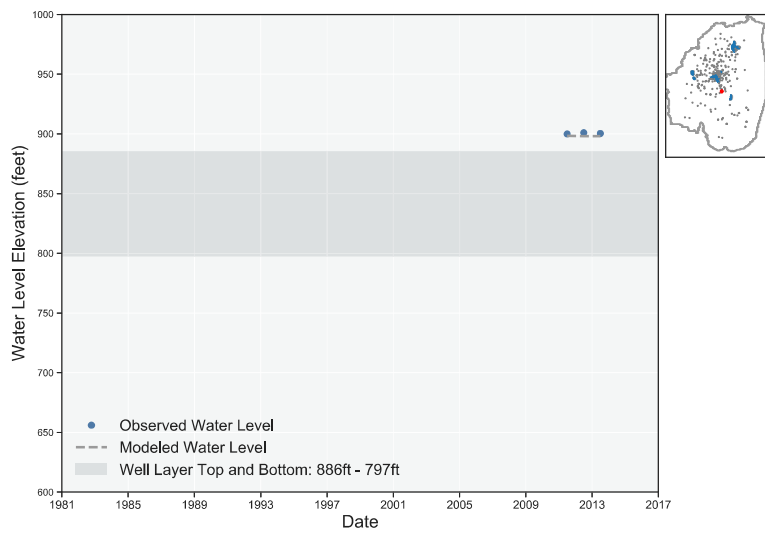
Well 112571 - Aq: OSTP Layers: 5 - 5



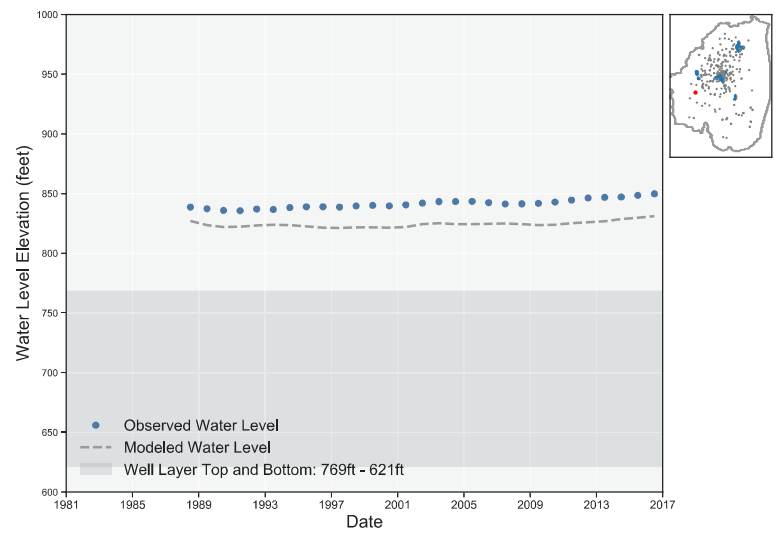
Well 82005 - Aq: OSTP Layers: 5 - 5



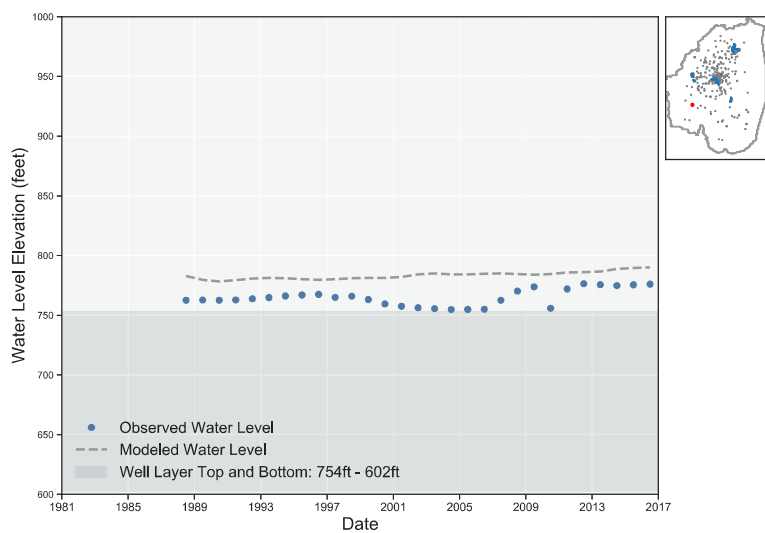
Well 421213 - Aq: OSTP Layers: 5 - 5



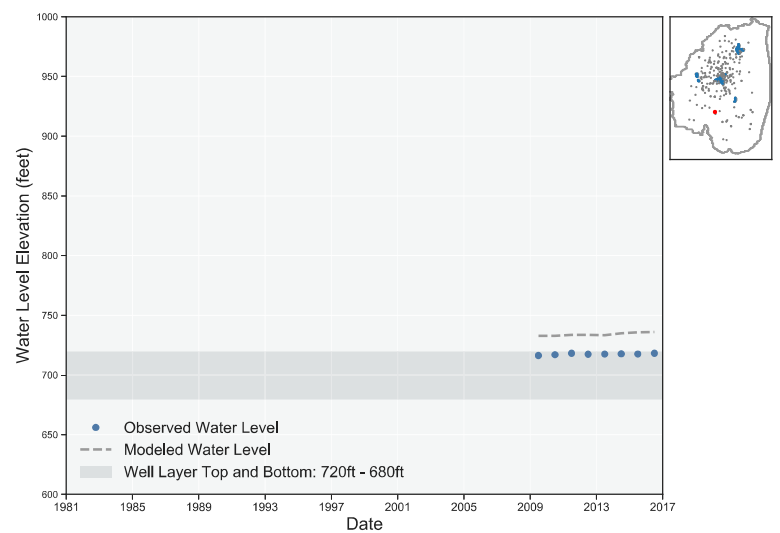
Well 62002 - Aq: OSTP Layers: 5 - 5



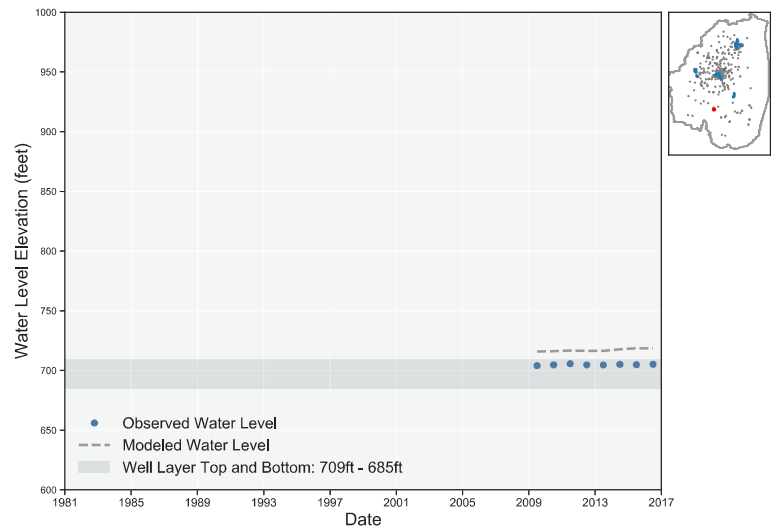
Well 62034 - Aq: OSTP Layers: 5 - 5



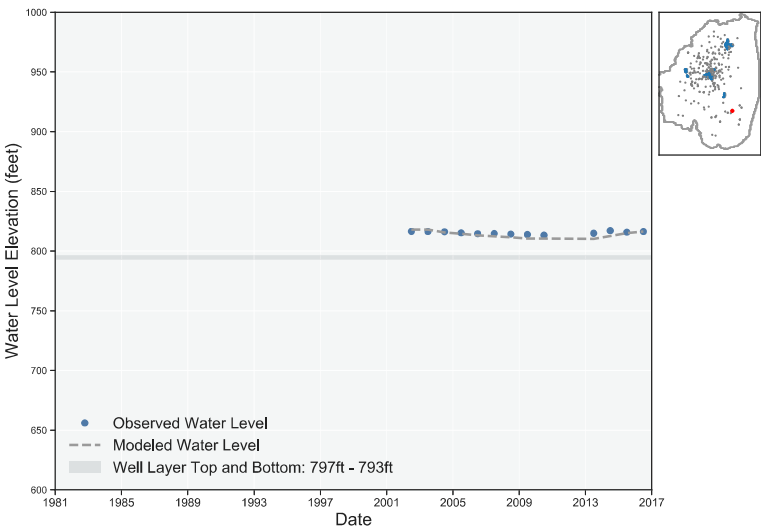
Well 62050 - Aq: OSTP Layers: 5 - 5



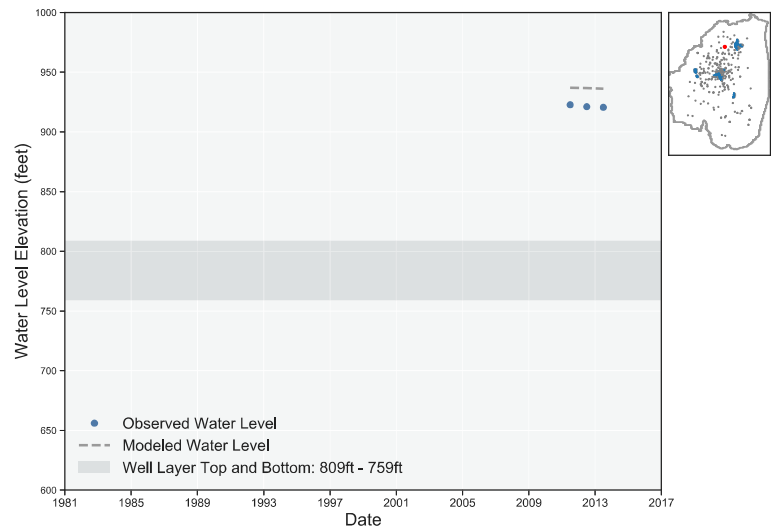
Well 62051 - Aq: OSTP Layers: 5 - 5



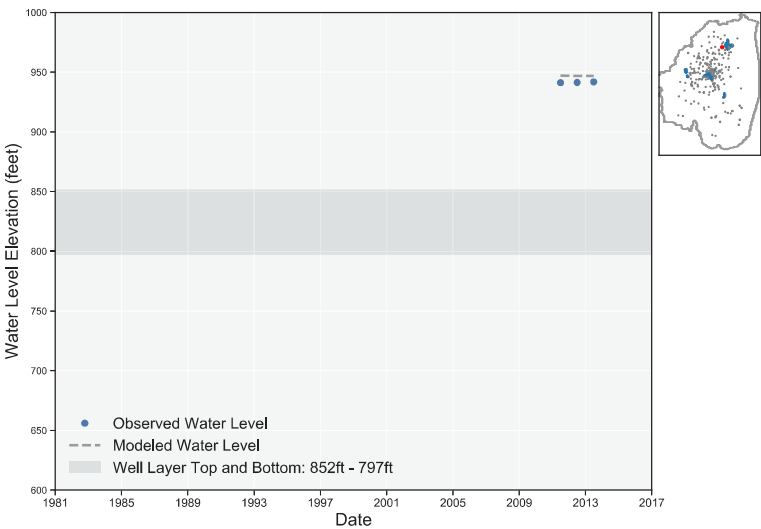
Well 675586 - Aq: QWTA Layers: 5 - 5



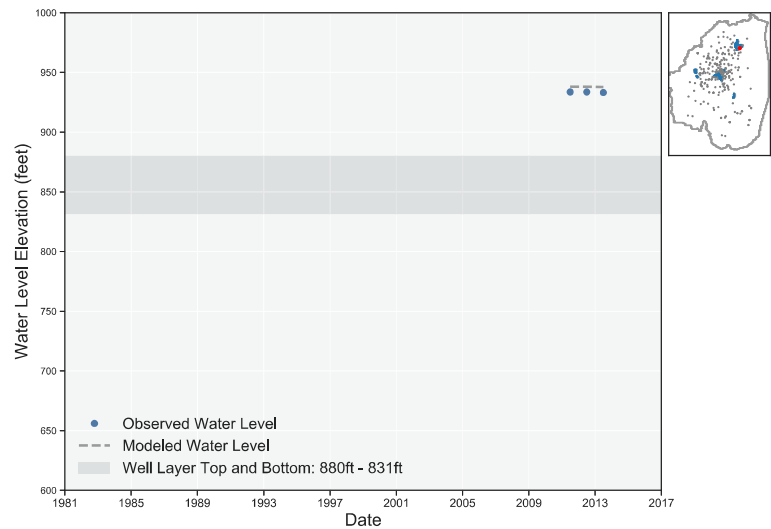
Well 419114 - Aq: OPDC Layers: 6 - 6



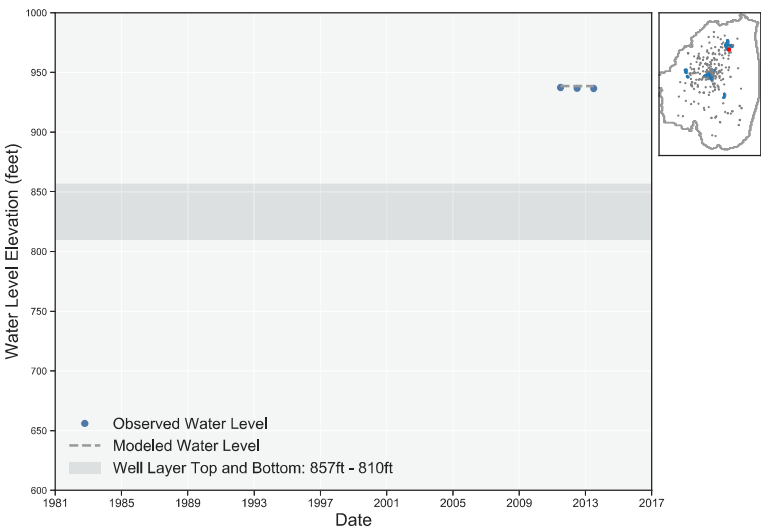
Well 411647 - Aq: OPDC Layers: 6 - 6



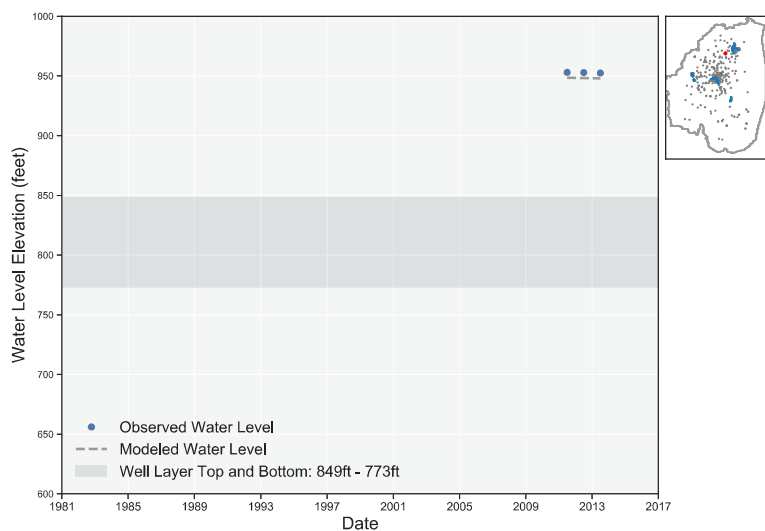
Well 153473 - Aq: OPDC Layers: 6 - 6



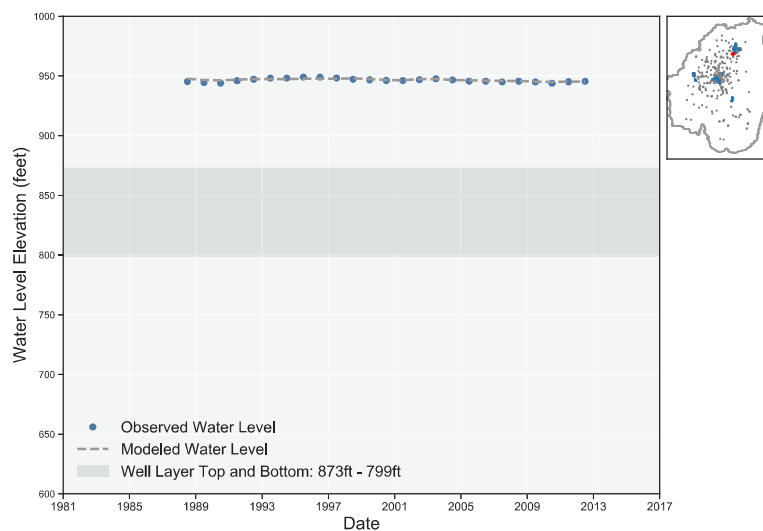
Well 435109 - Aq: OPDC Layers: 6 - 6



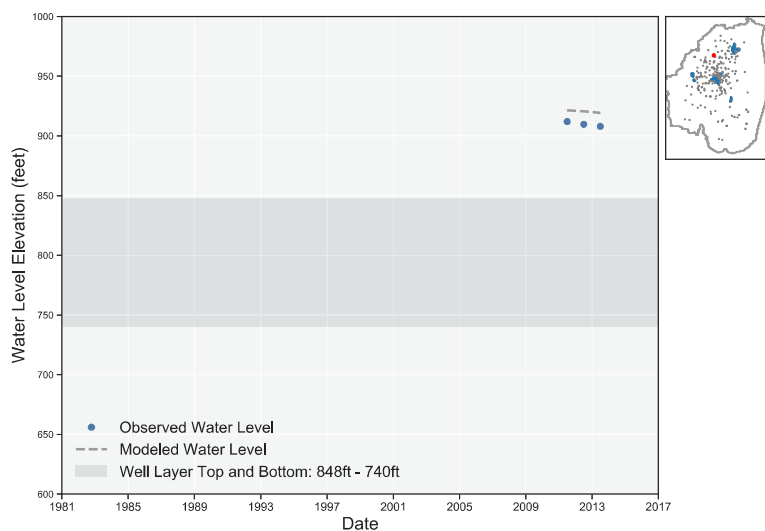
Well 450385 - Aq: OPDC Layers: 6 - 6



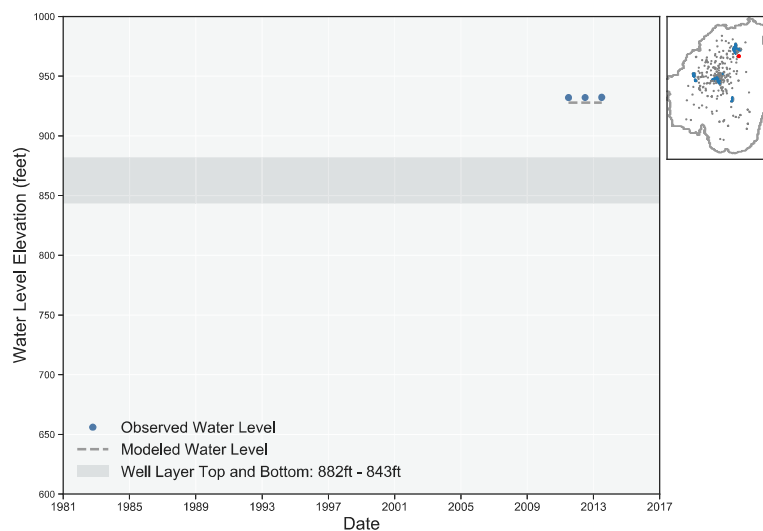
Well 82035 - Aq: OPDC Layers: 6 - 6



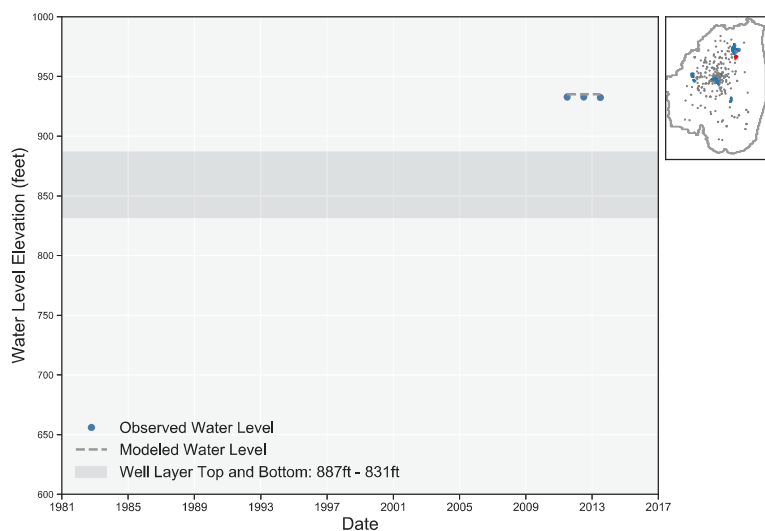
Well 430927 - Aq: OPDC Layers: 6 - 6



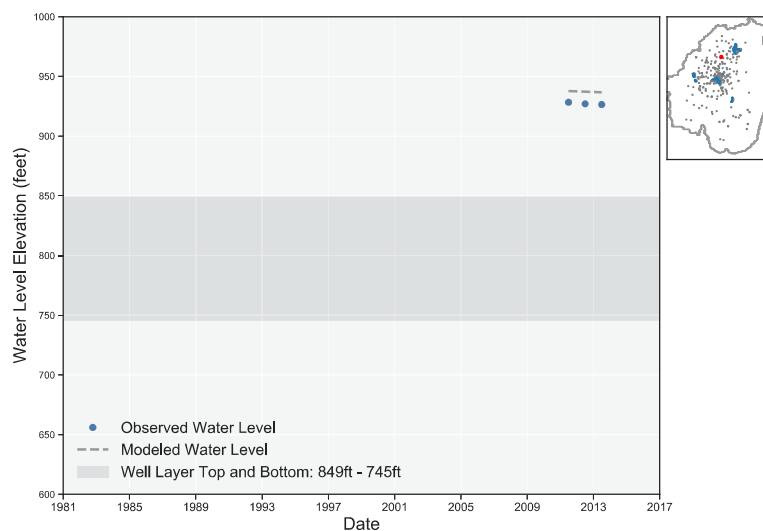
Well 435046 - Aq: OPDC Layers: 6 - 6



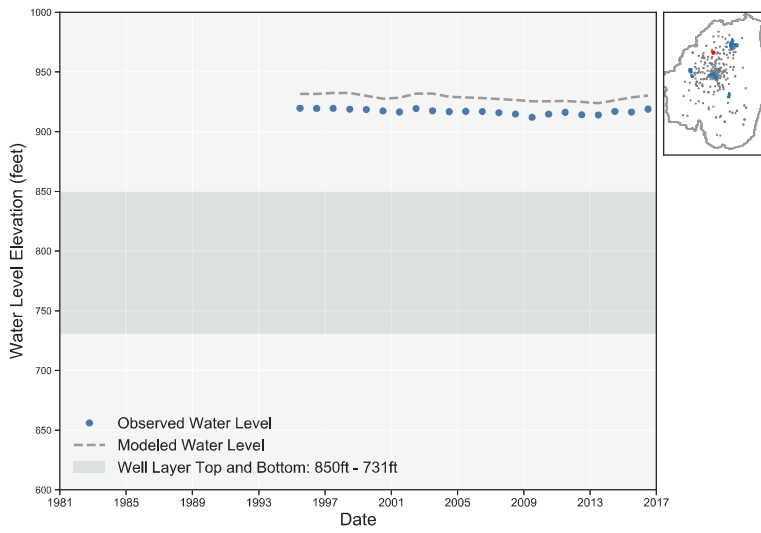
Well 422349 - Aq: OPDC Layers: 6 - 6



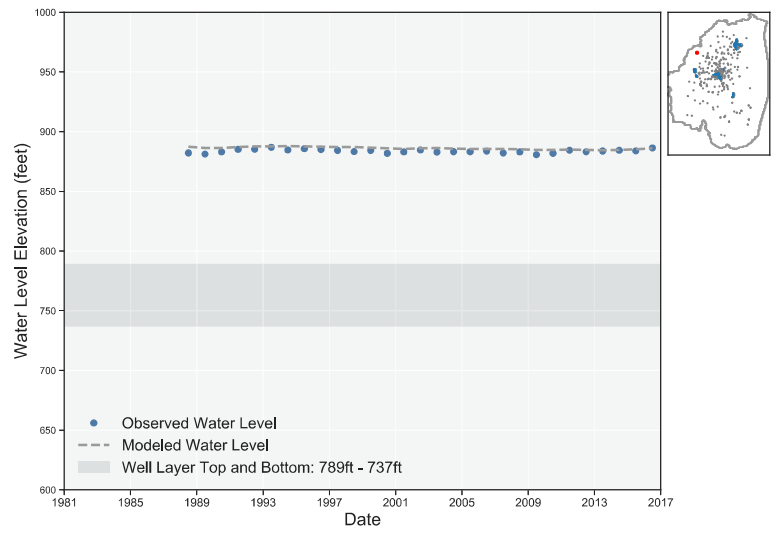
Well 513467 - Aq: OPDC Layers: 6 - 6



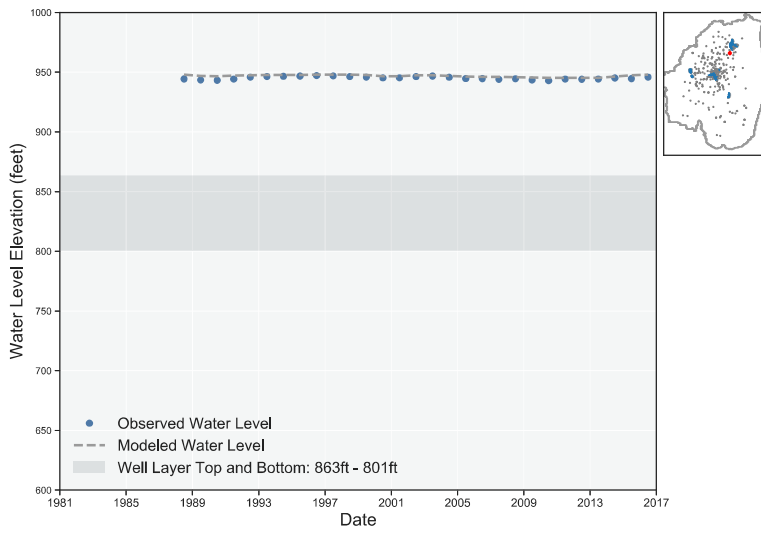
Well 82040 - Aq: OPDC Layers: 6 - 6



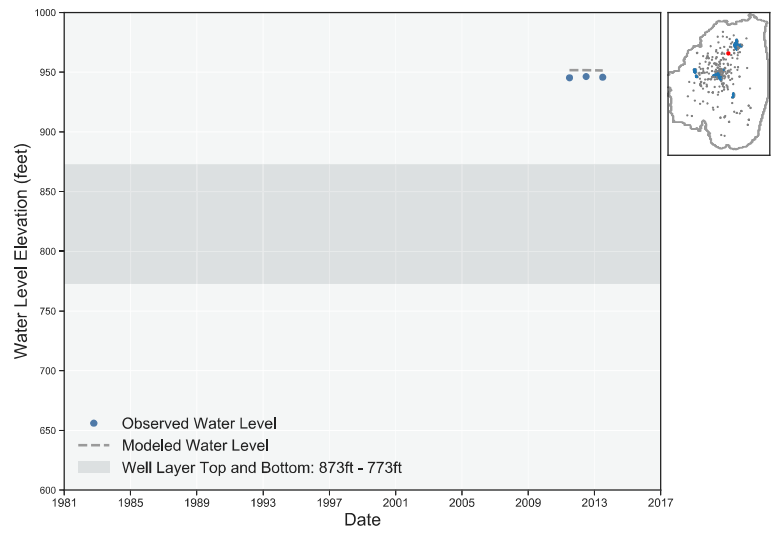
Well 2009 - Aq: QBAA Layers: 6 - 6



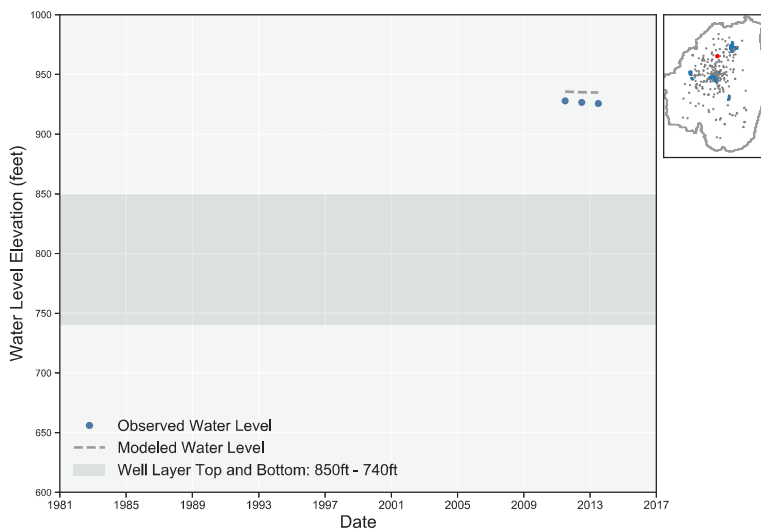
Well 82033 - Aq: OPDC Layers: 6 - 6



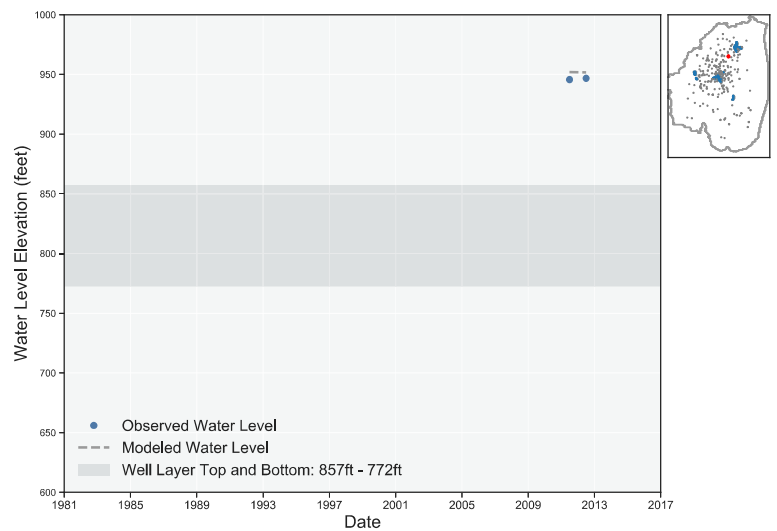
Well 196935 - Aq: OPDC Layers: 6 - 6



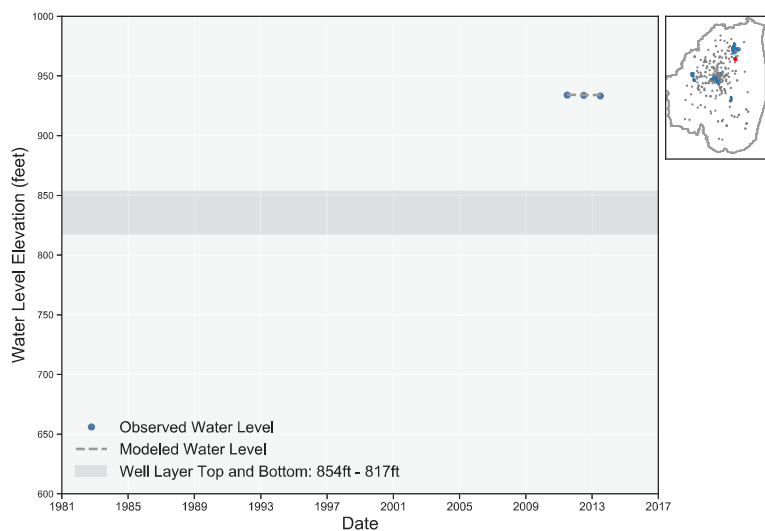
Well 110526 - Aq: OPDC Layers: 6 - 6



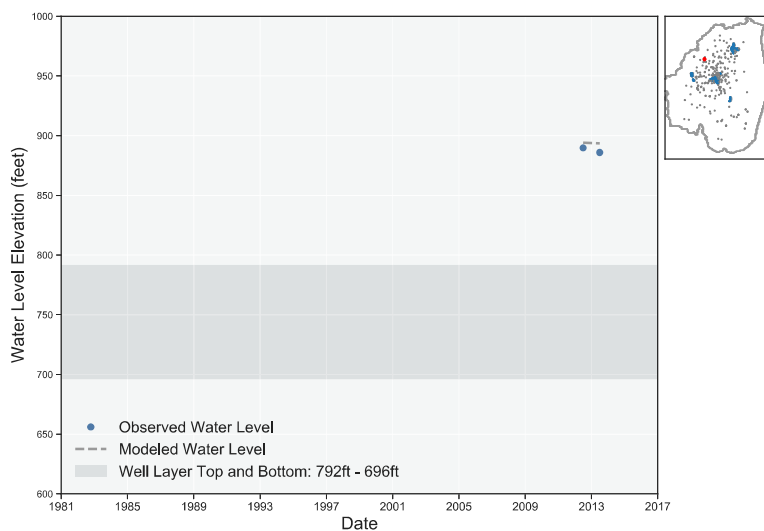
Well 418593 - Aq: OPDC Layers: 6 - 6



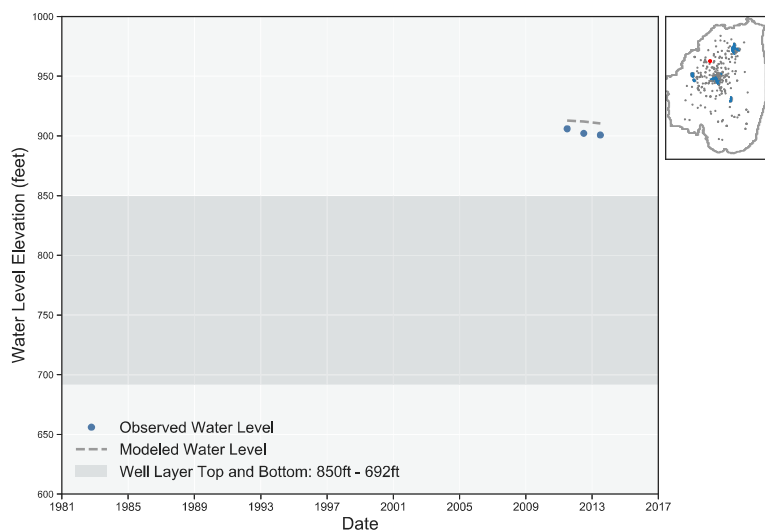
Well 430399 - Aq: OPDC Layers: 6 - 6



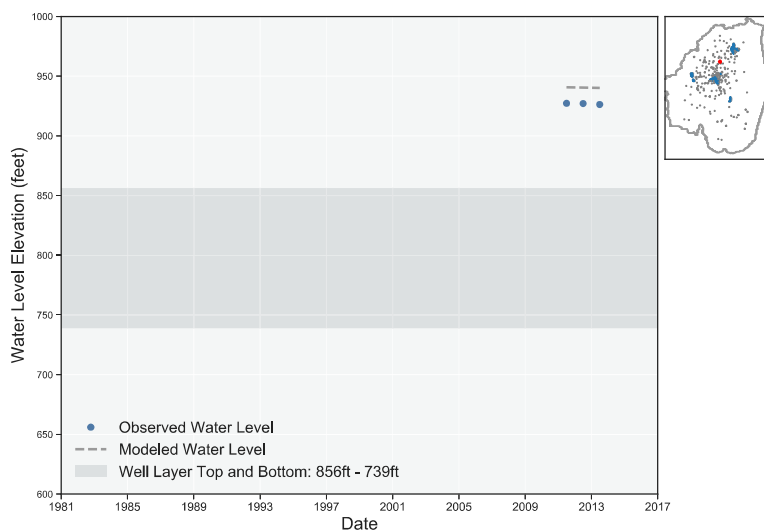
Well 188272 - Aq: OPDC Layers: 6 - 6



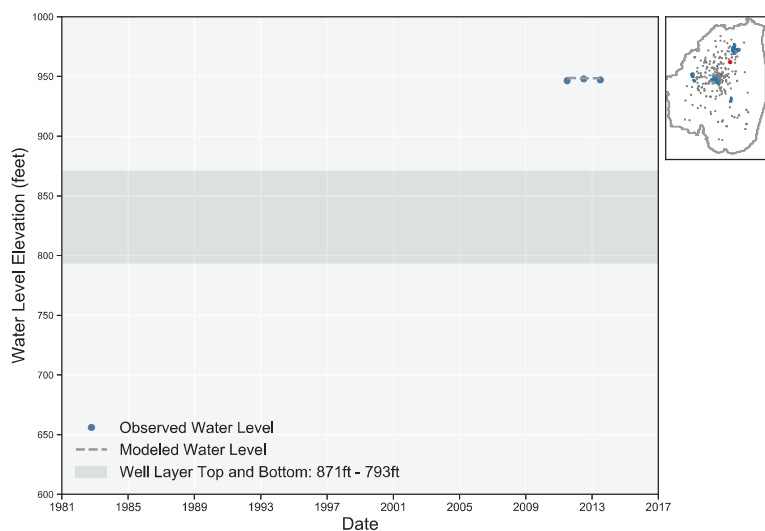
Well 524745 - Aq: OPDC Layers: 6 - 6



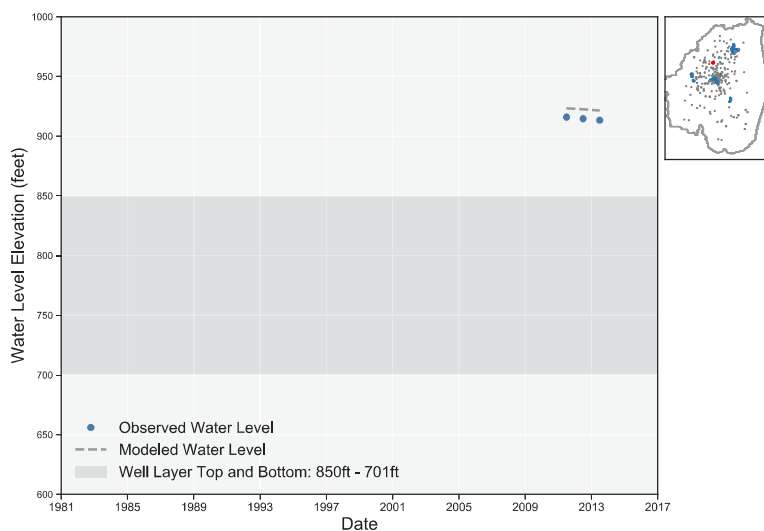
Well 558224 - Aq: OPDC Layers: 6 - 6



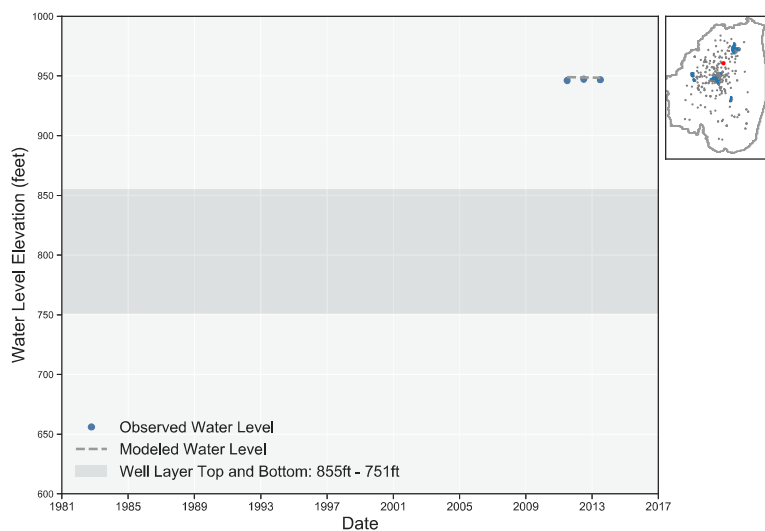
Well 420630 - Aq: OPDC Layers: 6 - 6



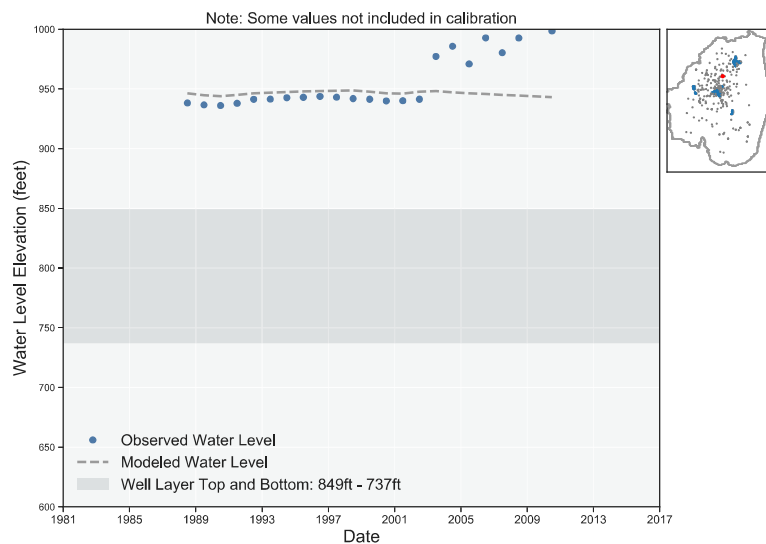
Well 427681 - Aq: OPDC Layers: 6 - 6



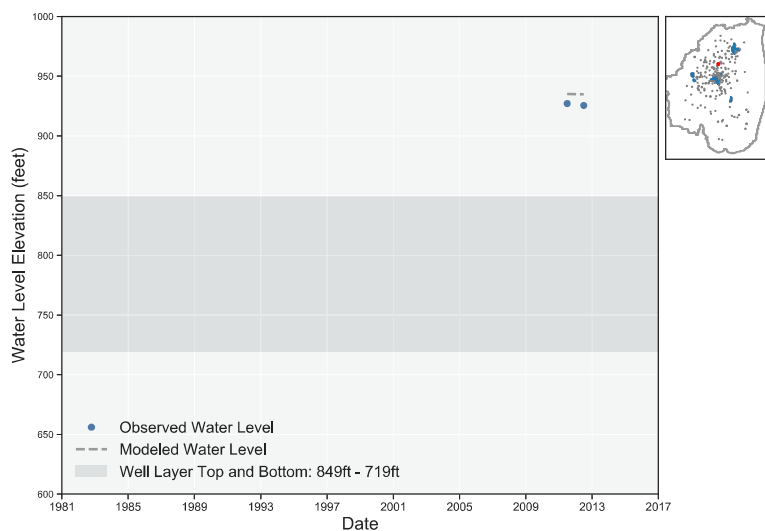
Well 430550 - Aq: OPDC Layers: 6 - 6



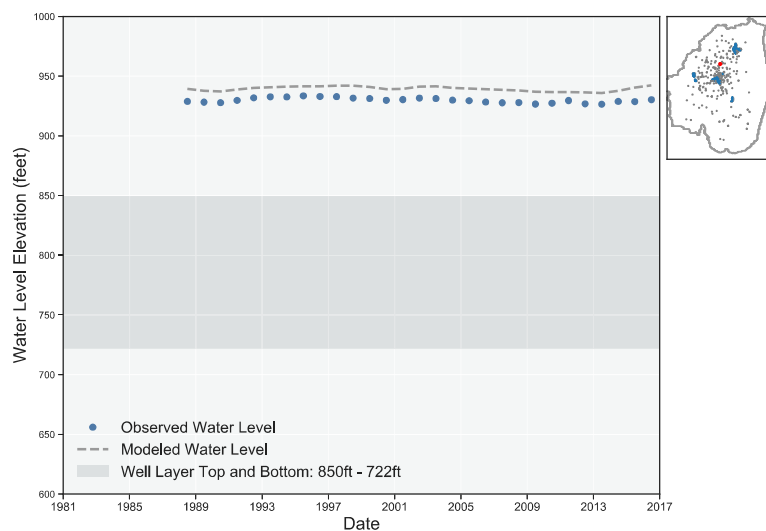
Well 82032 - Aq: OPDC Layers: 6 - 6



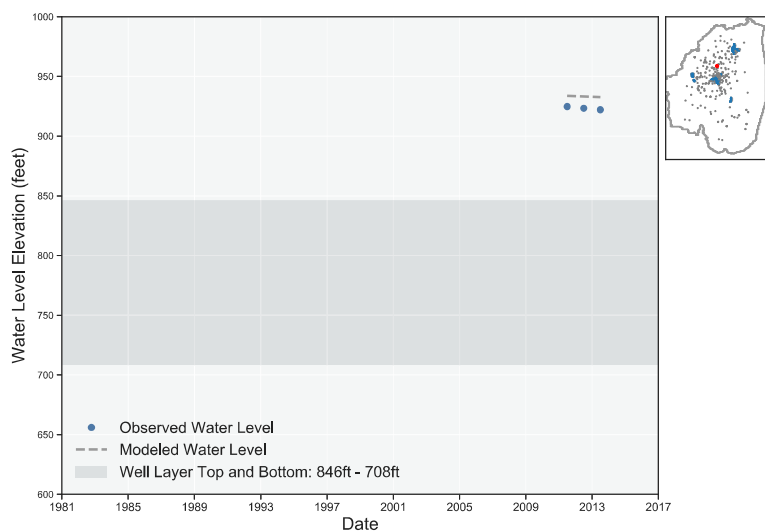
Well 713255 - Aq: OPDC Layers: 6 - 6



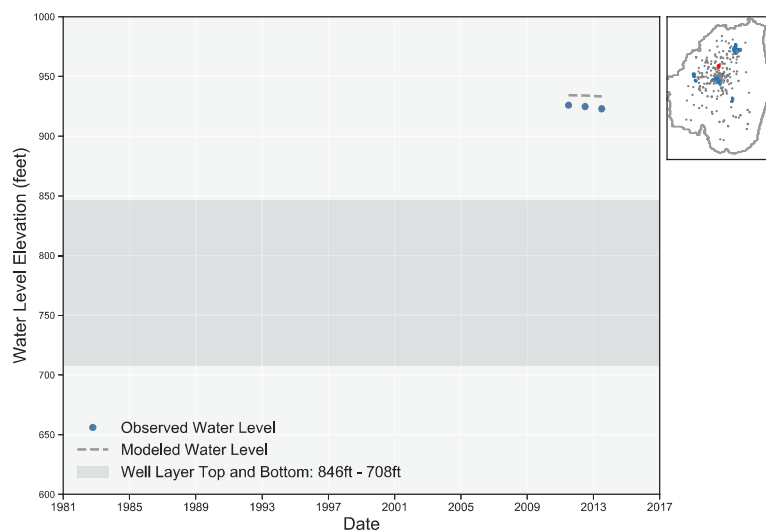
Well 82029 - Aq: OPDC Layers: 6 - 6



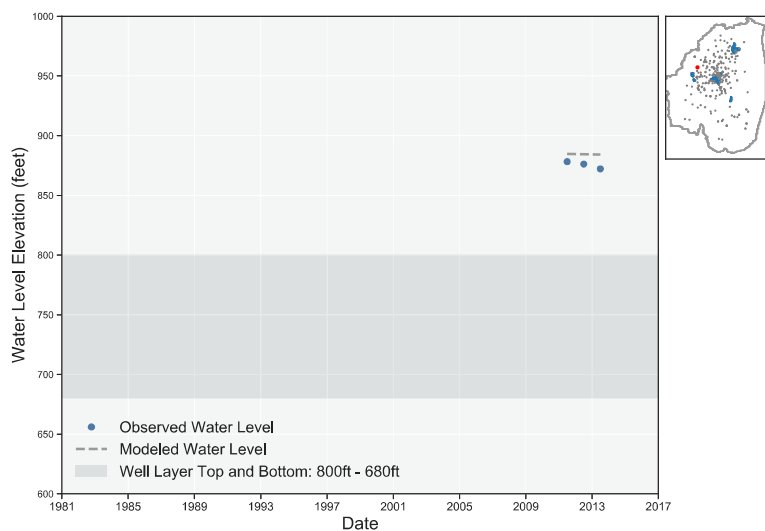
Well 141730 - Aq: OPDC Layers: 6 - 6



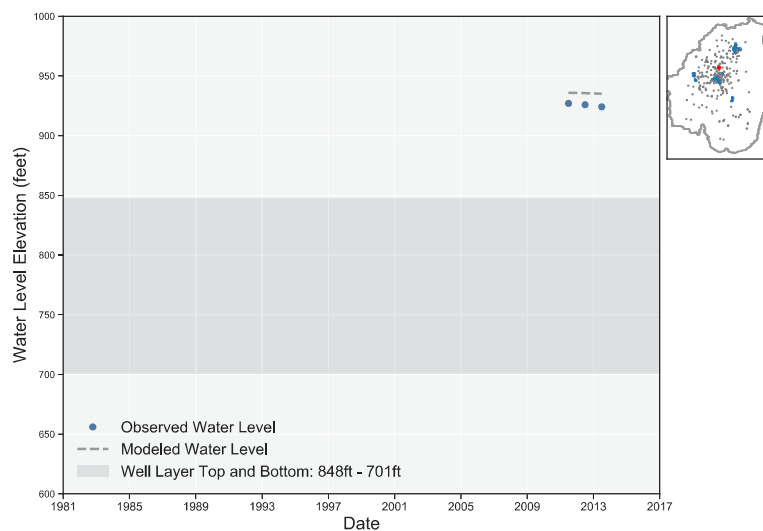
Well 138120 - Aq: OPDC Layers: 6 - 6



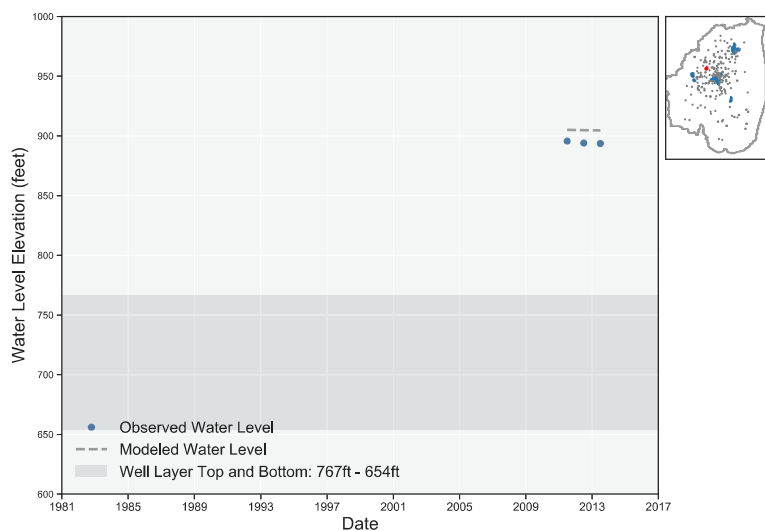
Well 170633 - Aq: OPDC Layers: 6 - 6



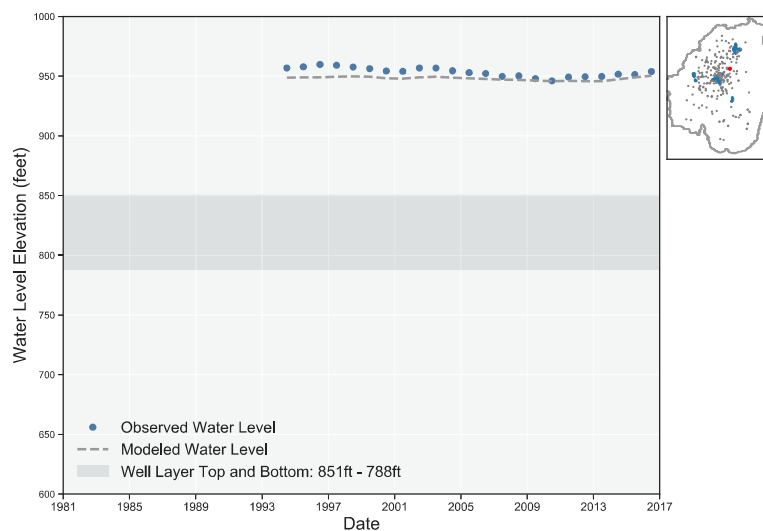
Well 439243 - Aq: OPDC Layers: 6 - 6



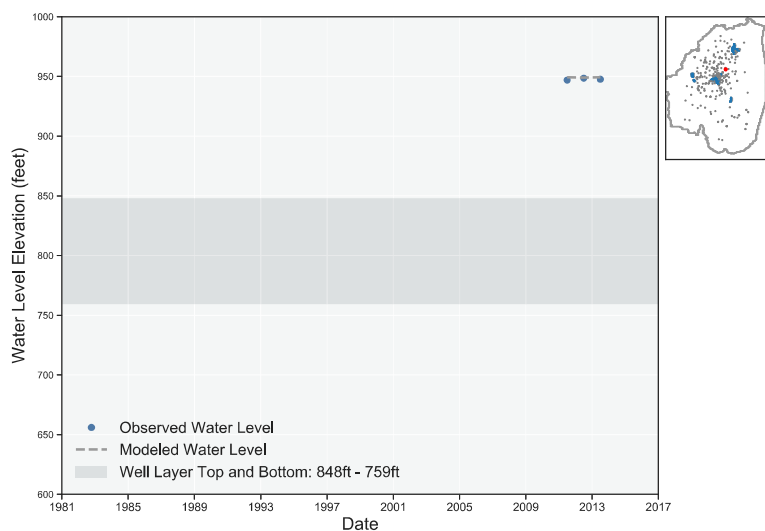
Well 138399 - Aq: OPDC Layers: 6 - 6



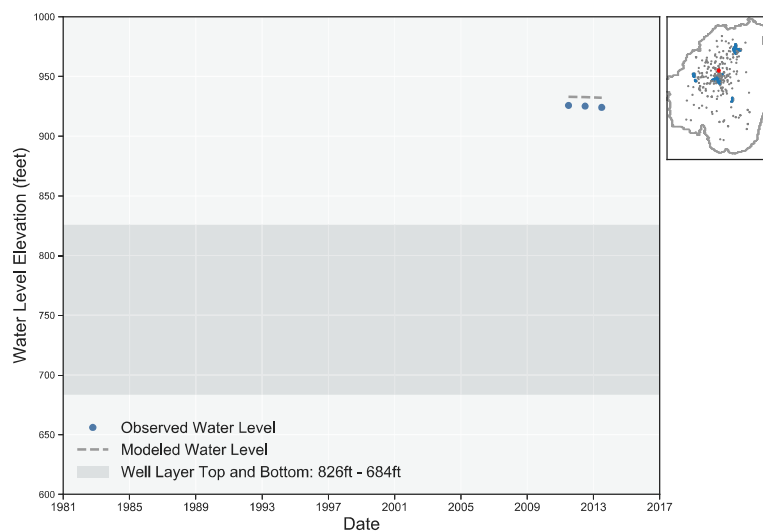
Well 82039 - Aq: OPDC Layers: 6 - 6



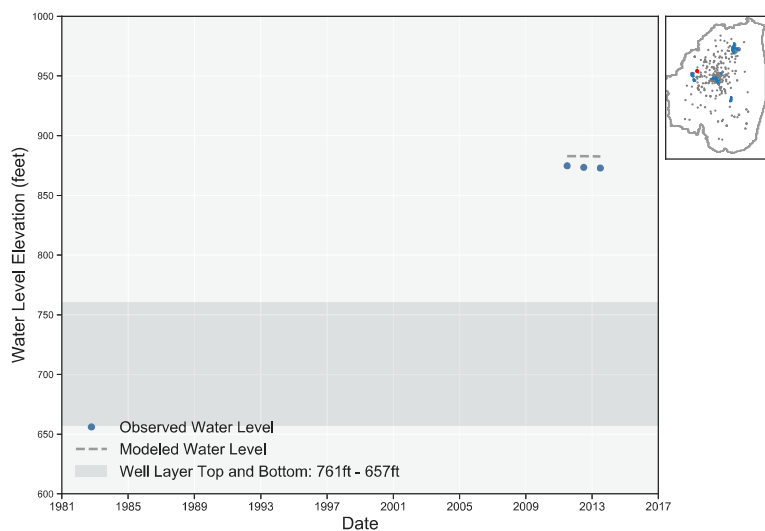
Well 413669 - Aq: OPDC Layers: 6 - 6



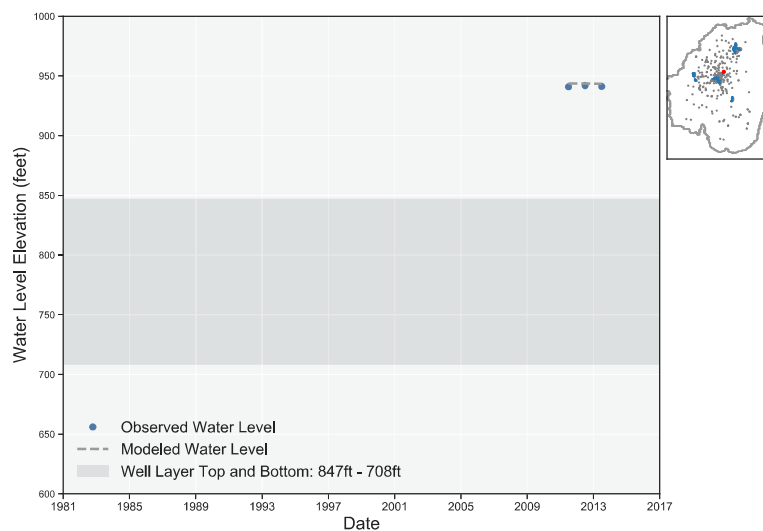
Well 546305 - Aq: OPDC Layers: 6 - 6



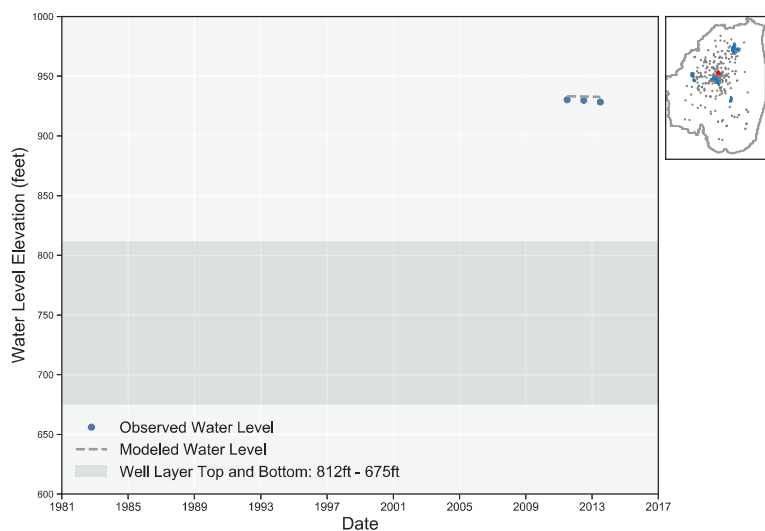
Well 512346 - Aq: OPDC Layers: 6 - 6



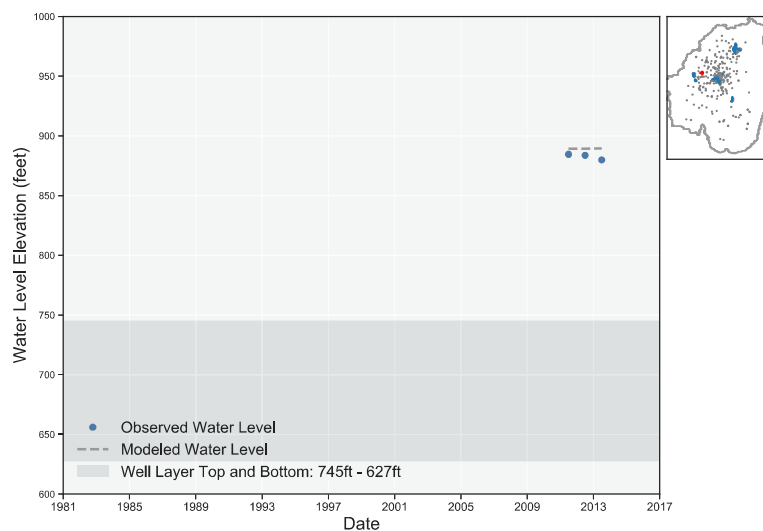
Well 139277 - Aq: OPDC Layers: 6 - 6



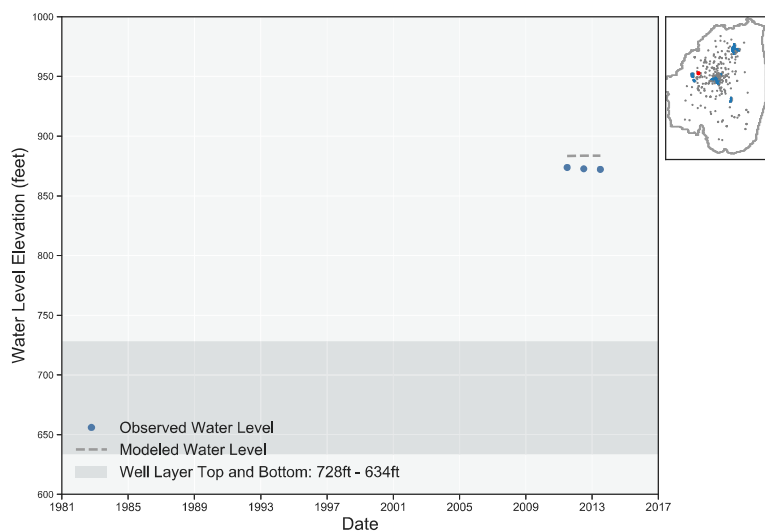
Well 436559 - Aq: OPDC Layers: 6 - 6



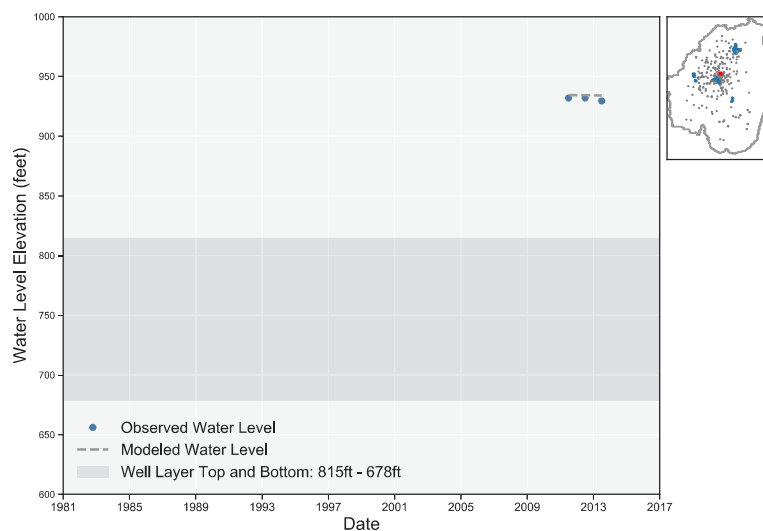
Well 205700 - Aq: OPDC Layers: 6 - 6



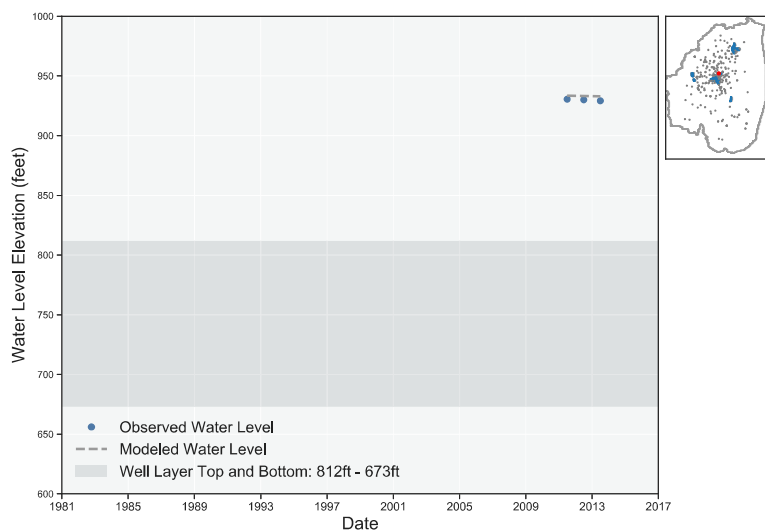
Well 521812 - Aq: OPDC Layers: 6 - 6



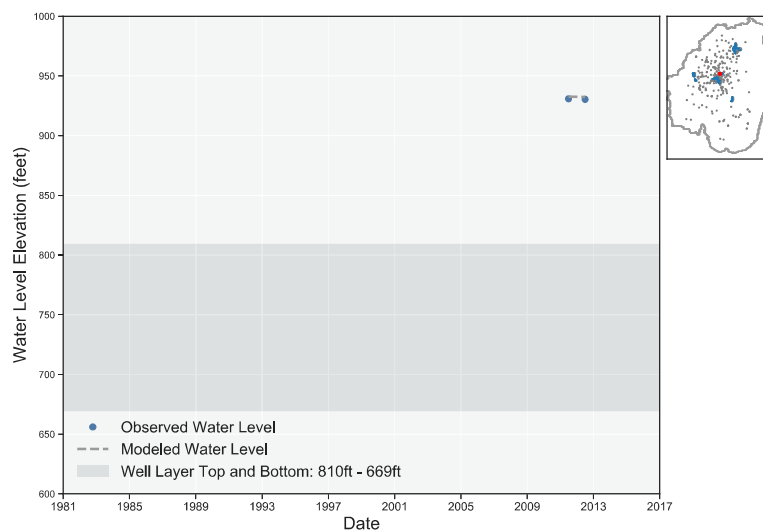
Well 418562 - Aq: OPDC Layers: 6 - 6



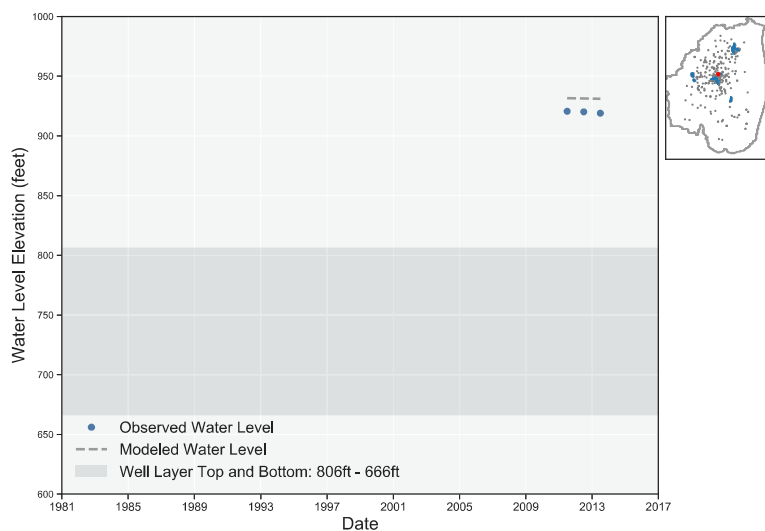
Well 421207 - Aq: OPDC Layers: 6 - 6



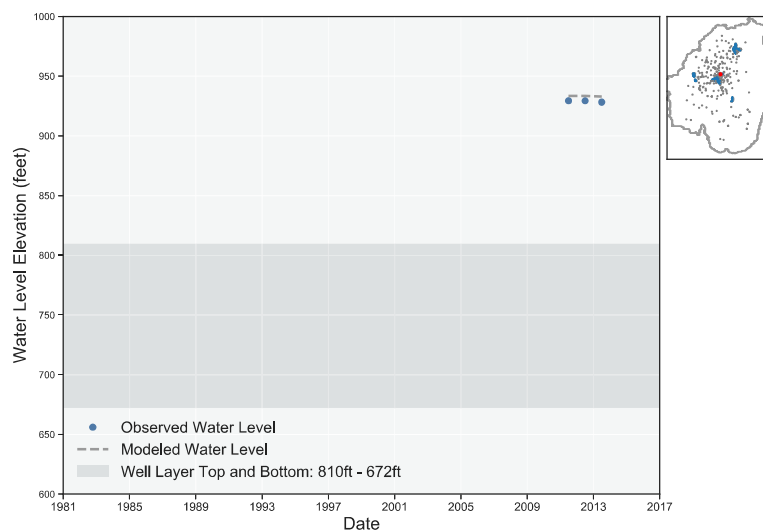
Well 450530 - Aq: OPDC Layers: 6 - 6



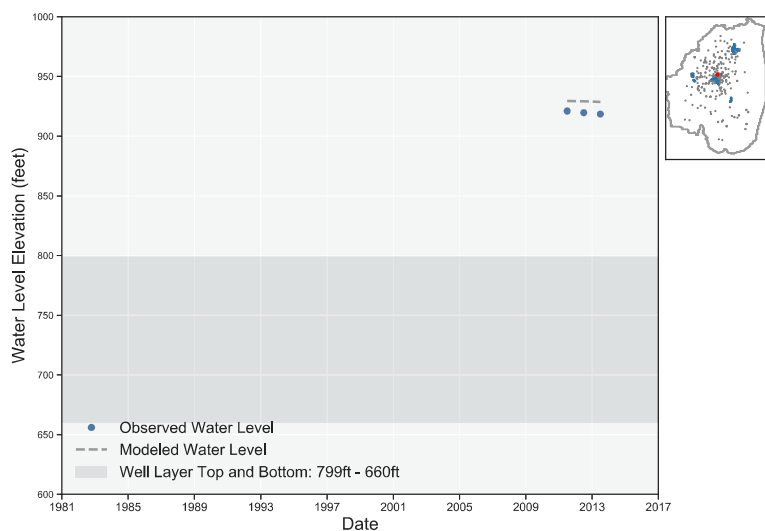
Well 427888 - Aq: OPDC Layers: 6 - 6



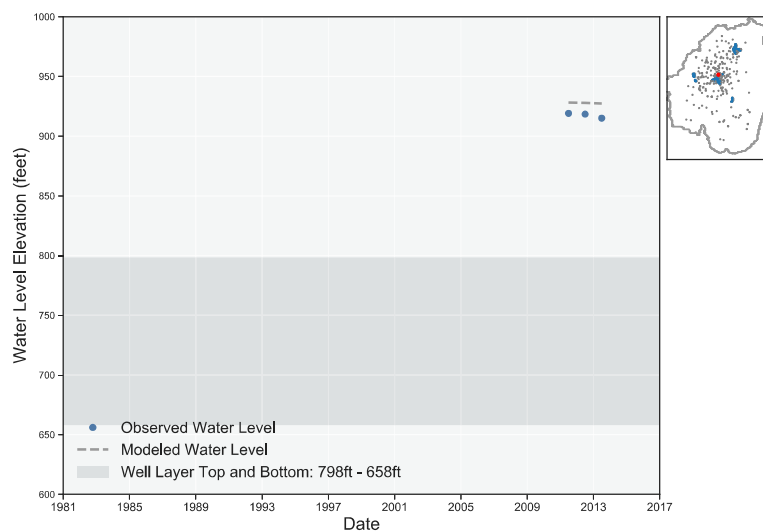
Well 182909 - Aq: OPDC Layers: 6 - 6



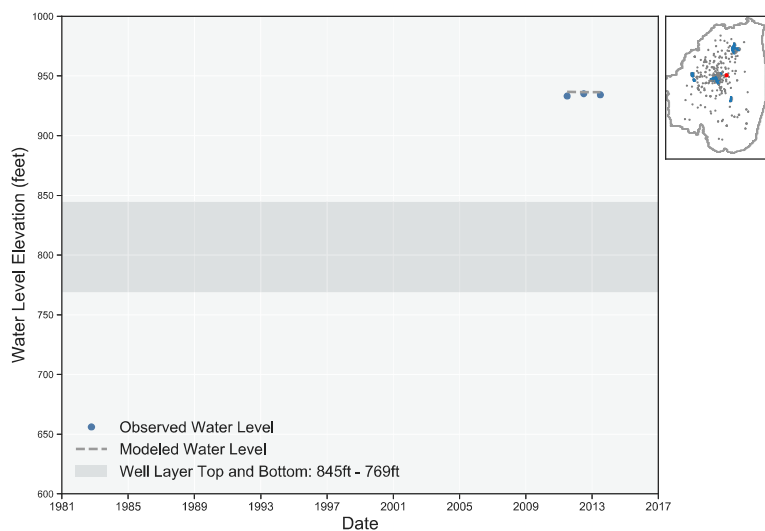
Well 208473 - Aq: OPDC Layers: 6 - 6



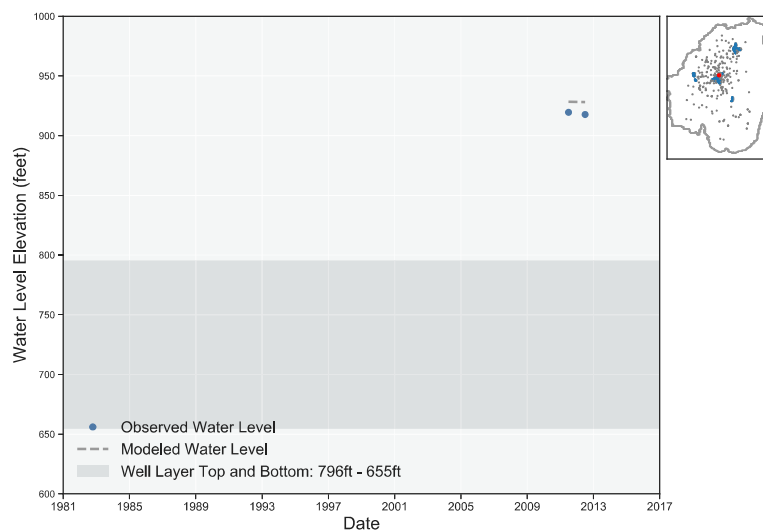
Well 450573 - Aq: OPDC Layers: 6 - 6



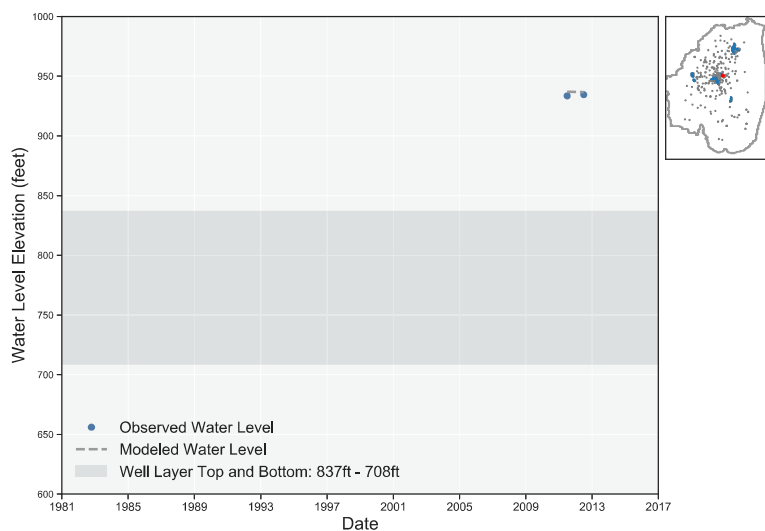
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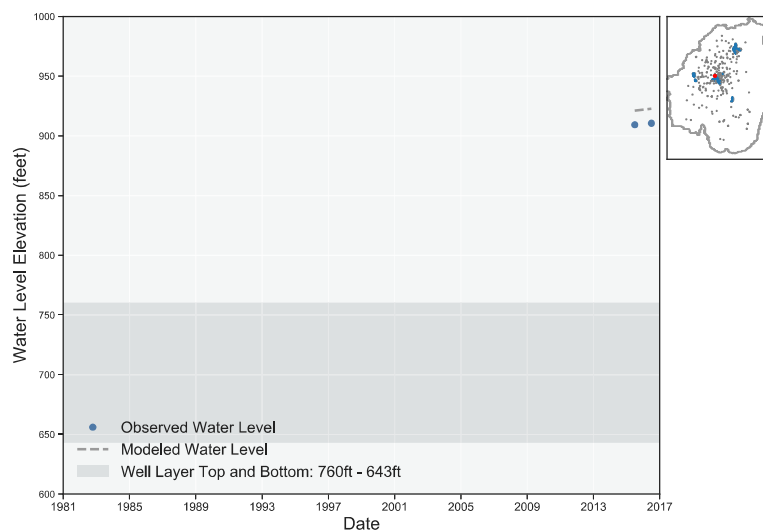
Well 182763 - Aq: OPDC Layers: 6 - 6



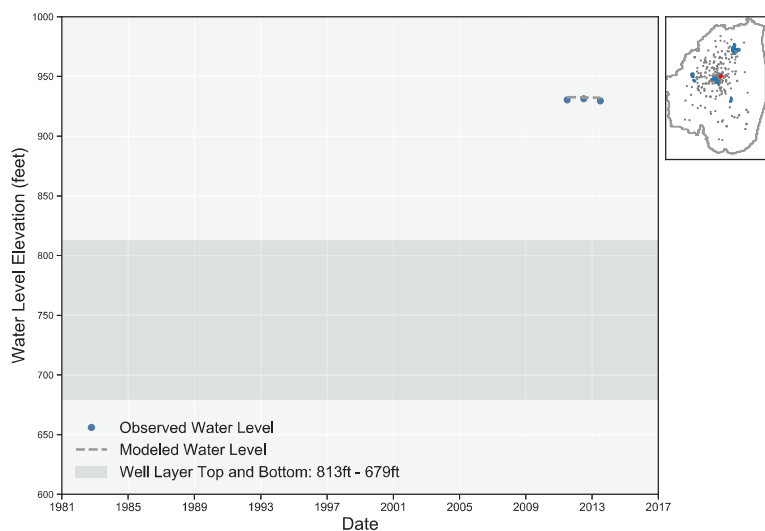
Well 430520 - Aq: OPDC Layers: 6 - 6



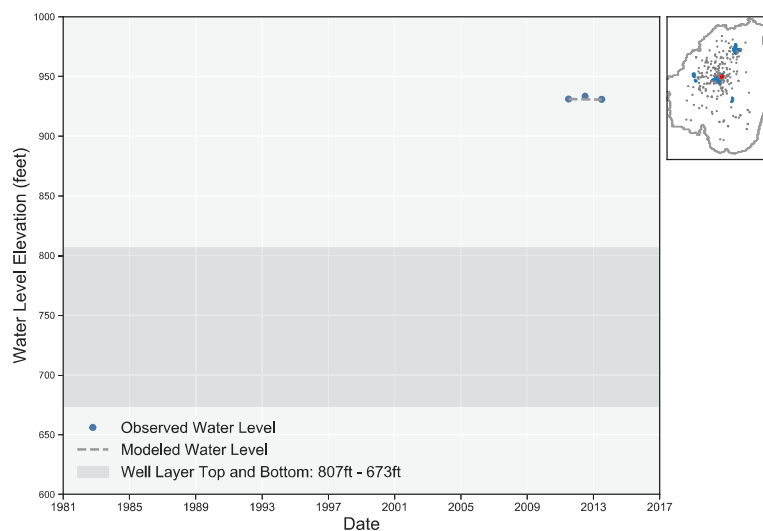
Well 62053 - Aq: CJDN Layers: 6 - 6



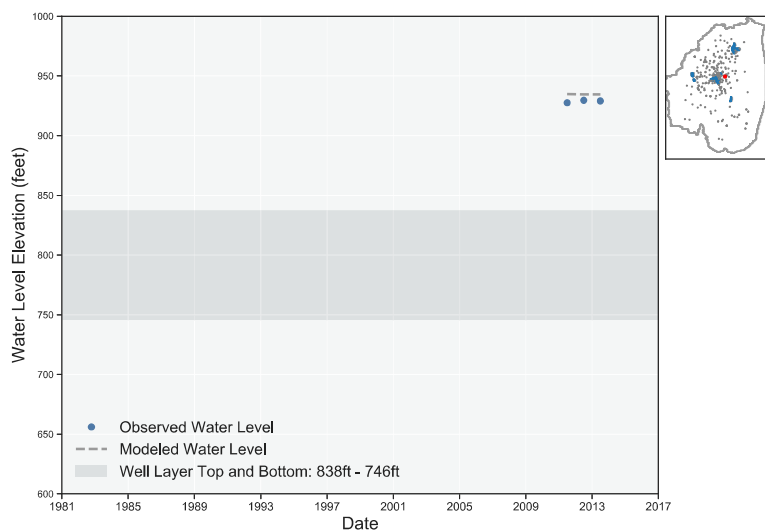
Well 195679 - Aq: OPDC Layers: 6 - 6



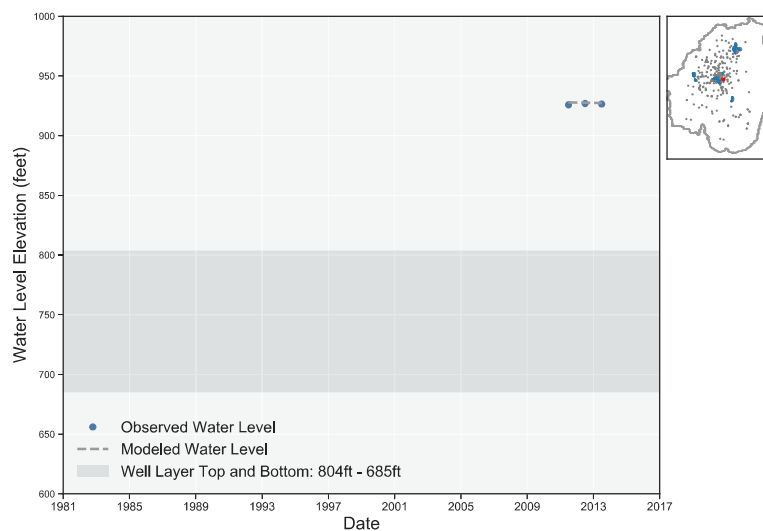
Well 207398 - Aq: OPDC Layers: 6 - 6



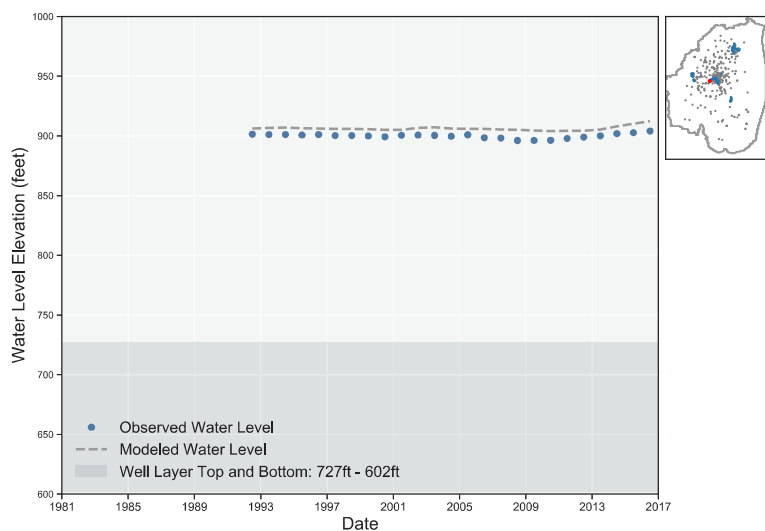
Well 404147 - Aq: OPDC Layers: 6 - 6



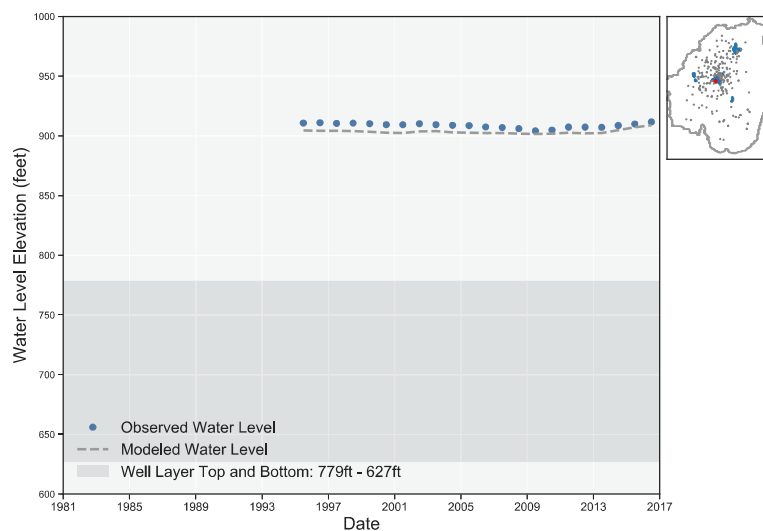
Well 420312 - Aq: OPDC Layers: 6 - 6



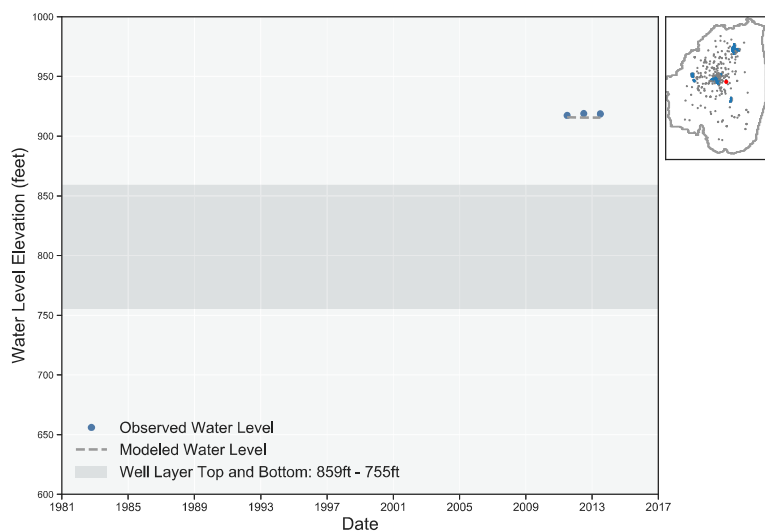
Well 62038 - Aq: OPDCCJDN Layers: 6 - 6



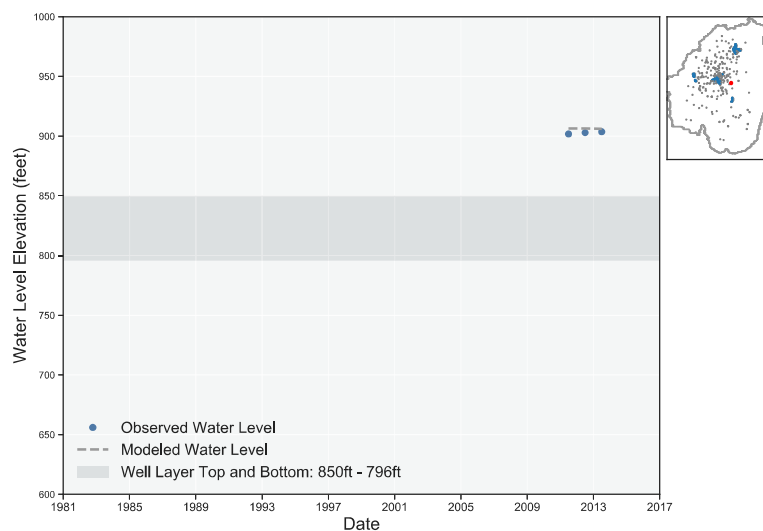
Well 62044 - Aq: OPDC Layers: 6 - 6



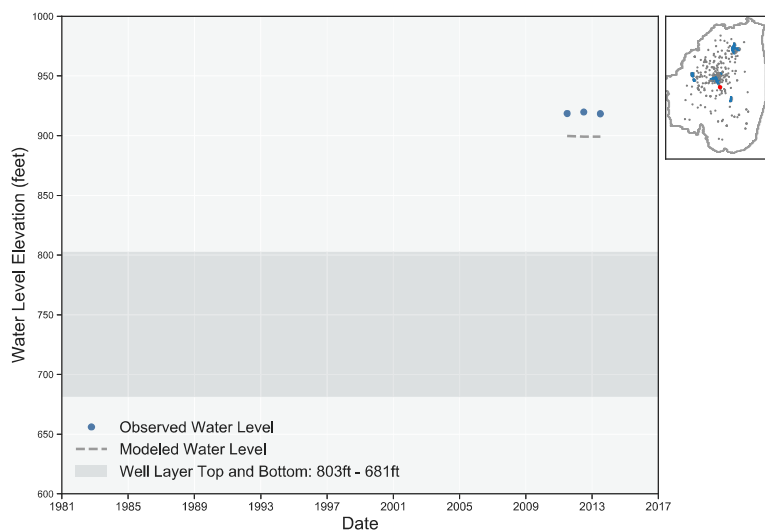
Well 435121 - Aq: OPDC Layers: 6 - 6



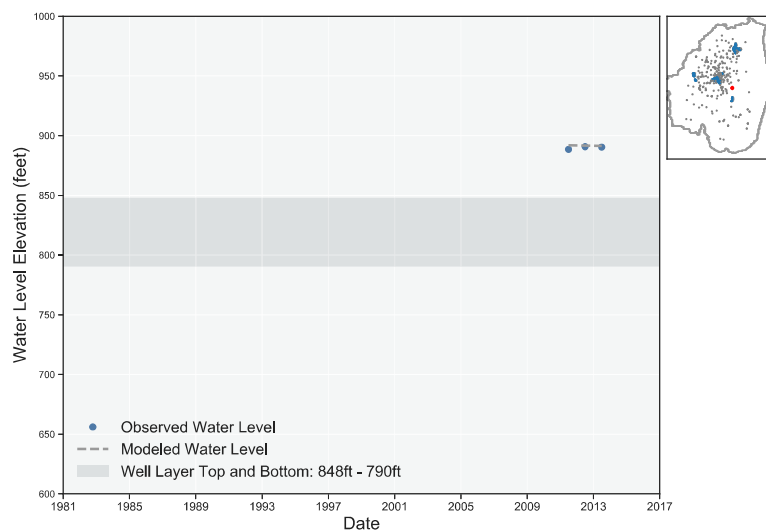
Well 762107 - Aq: OSTP Layers: 6 - 6



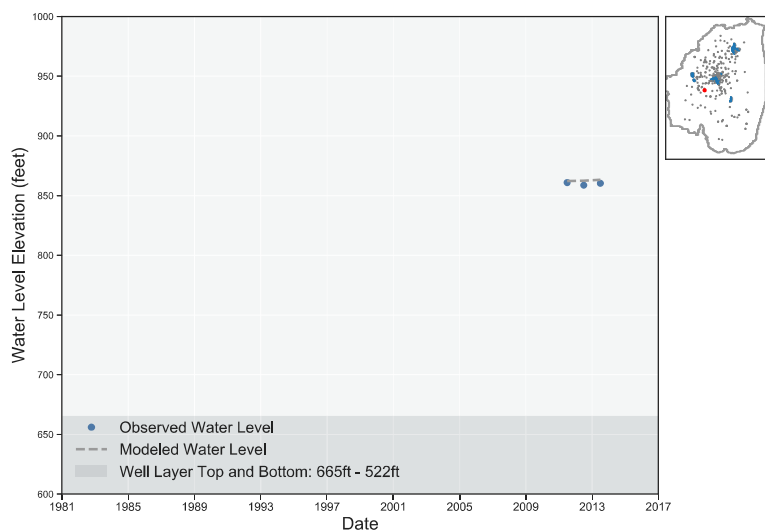
Well 138719 - Aq: OPDC Layers: 6 - 6



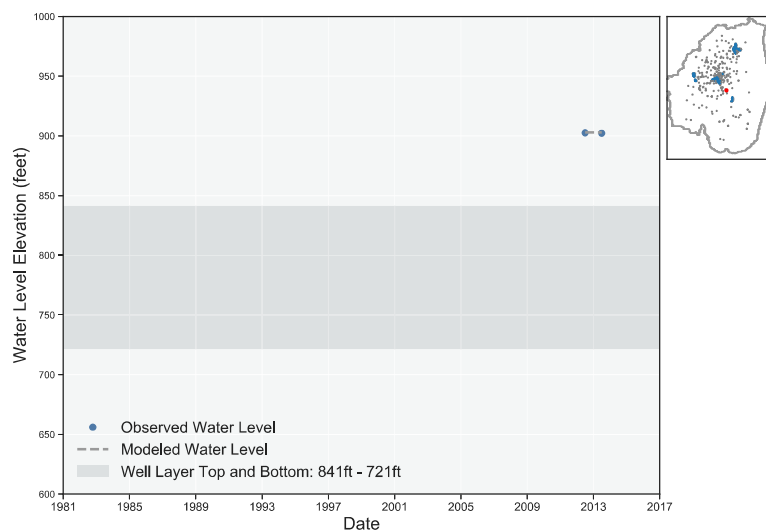
Well 242357 - Aq: OPDC Layers: 6 - 6



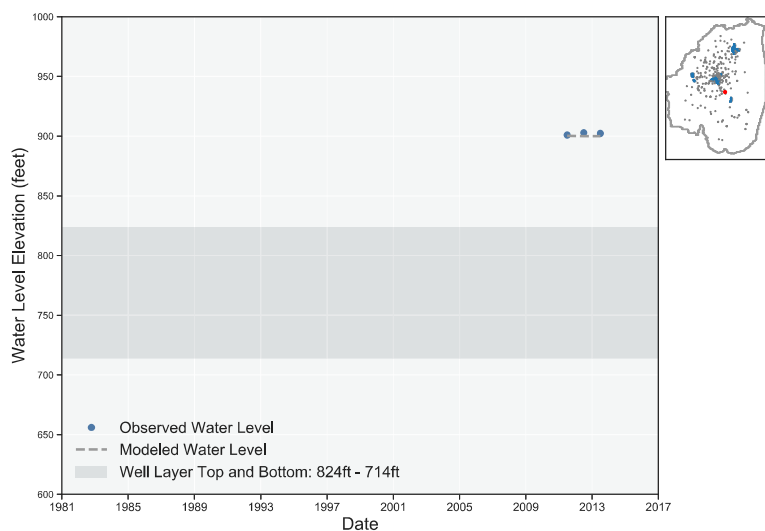
Well 430379 - Aq: OPDC Layers: 6 - 6



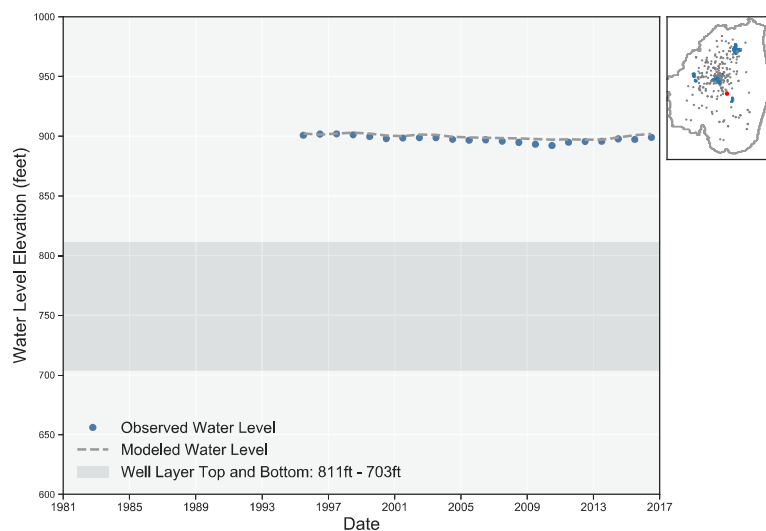
Well 421245 - Aq: OPDC Layers: 6 - 6



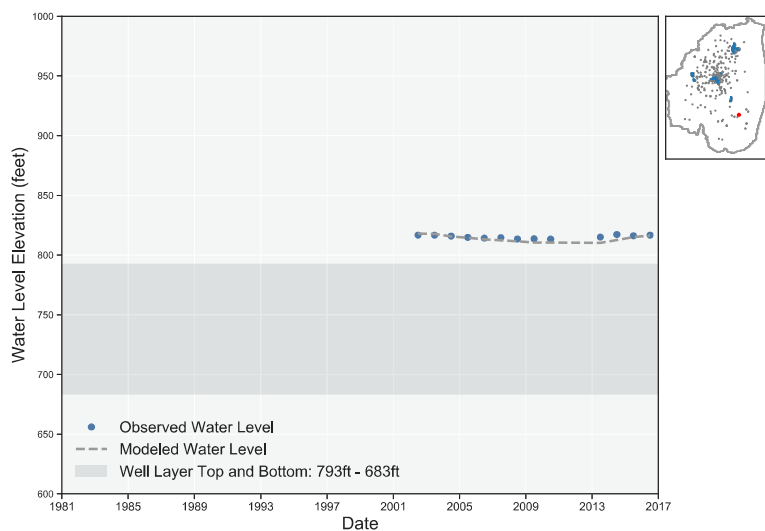
Well 440010 - Aq: OSTP Layers: 6 - 6



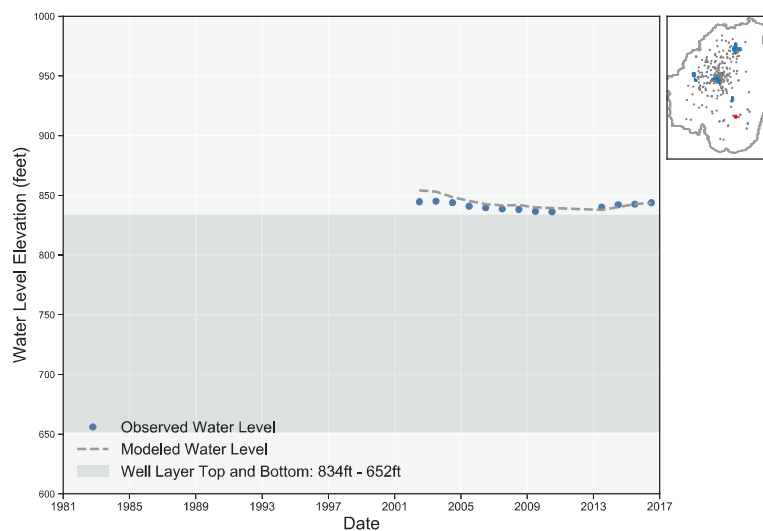
Well 82041 - Aq: OPDC Layers: 6 - 6



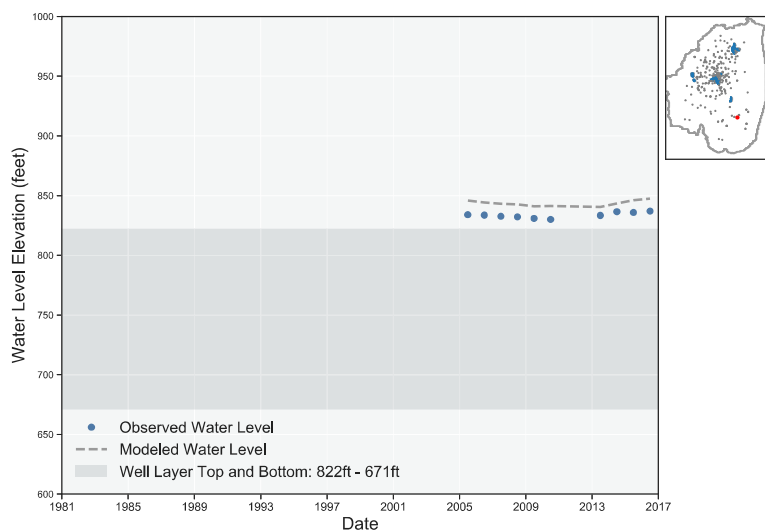
Well 675585 - Aq: OPDC Layers: 6 - 6



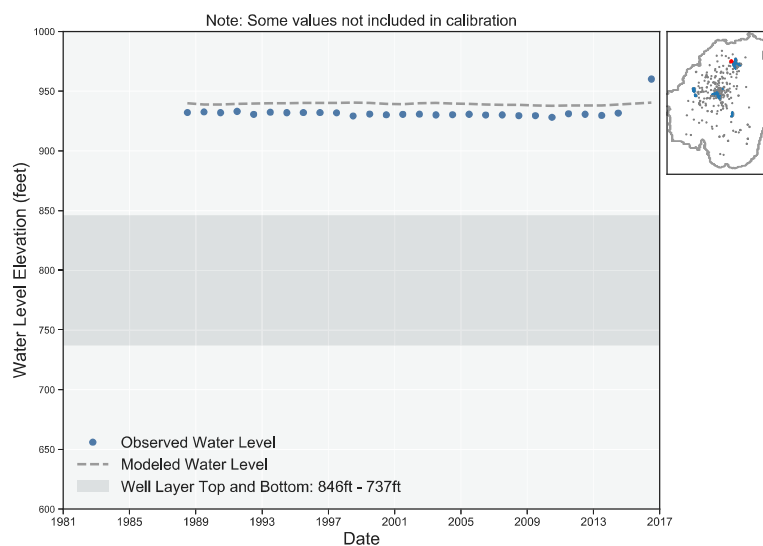
Well 675582 - Aq: OPDC Layers: 6 - 6



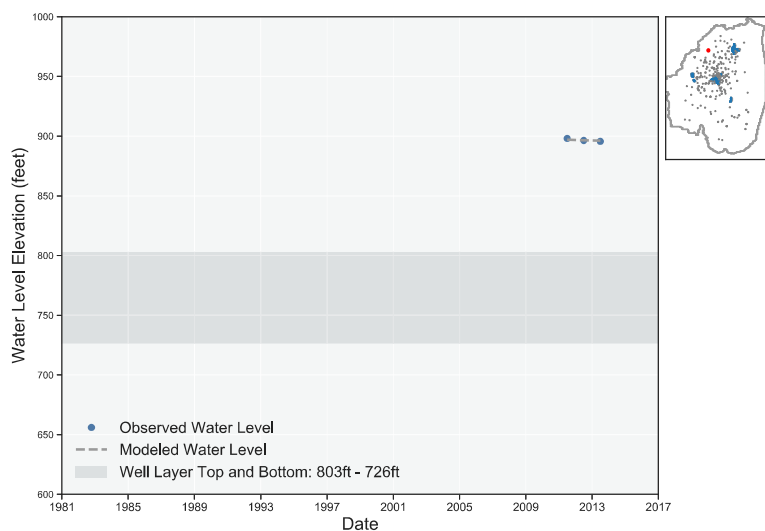
Well 727706 - Aq: OPDC Layers: 6 - 6



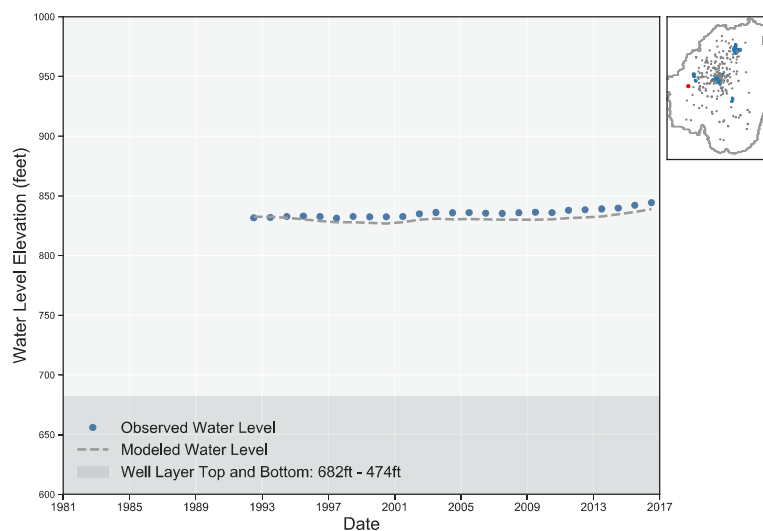
Well 82030 - Aq: OPDCCJDN Layers: 6 - 7



Well 136792 - Aq: OPCJ Layers: 6 - 7

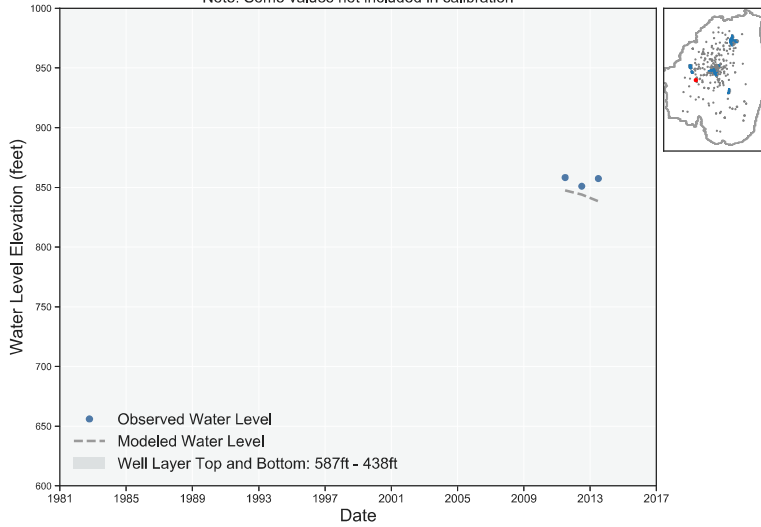


Well 62037 - Aq: OPDCCJDN Layers: 6 - 7



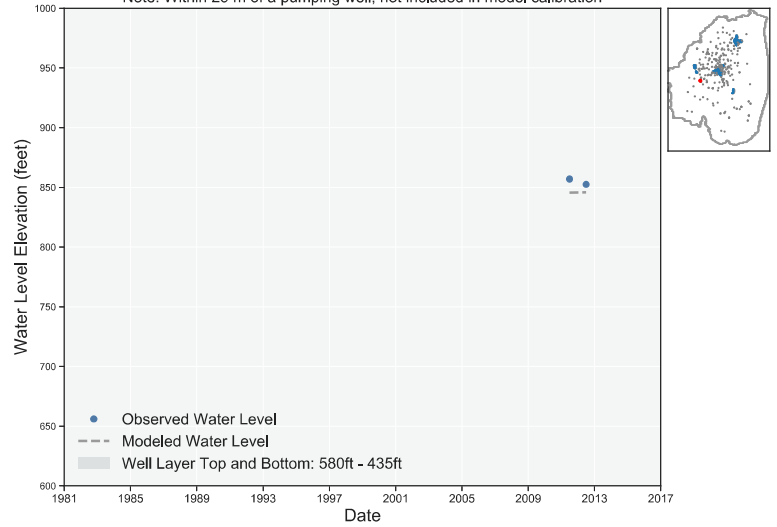
Well 151579 - Aq: OPCJ Layers: 6 - 7

Note: This is a pumping well (1977-6229, installation E) but was not pumped in 2011 or 2012.
Note: Some values not included in calibration

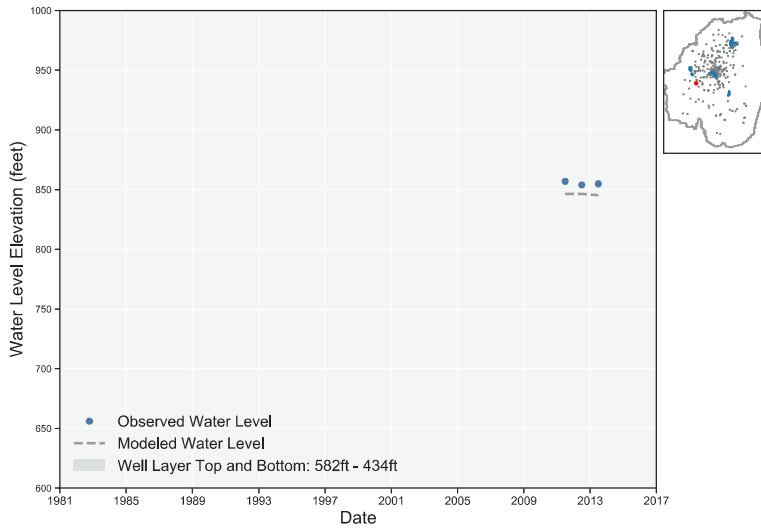


Well 706802 - Aq: OPCJ Layers: 6 - 7

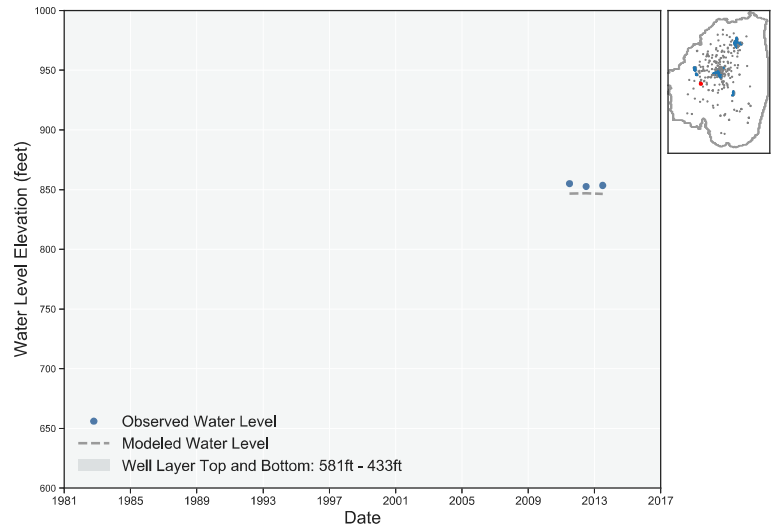
Note: Within 25 m of a pumping well, not included in model calibration



Well 753666 - Aq: OPCJ Layers: 6 - 7

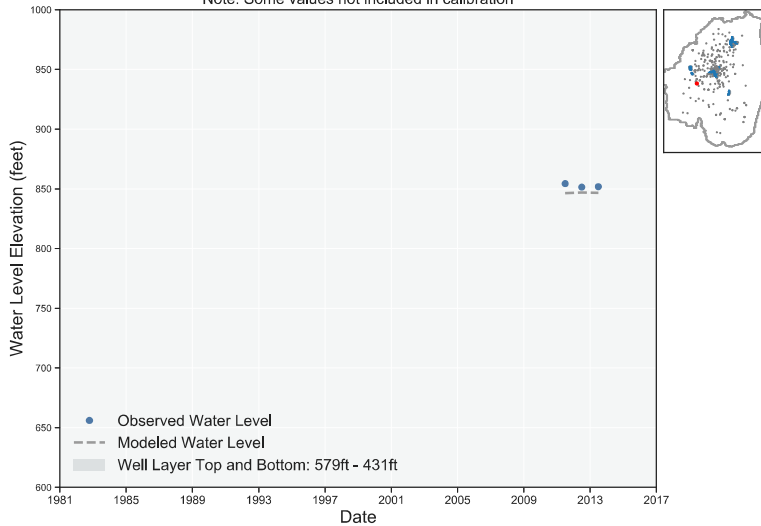


Well 753667 - Aq: OPCJ Layers: 6 - 7



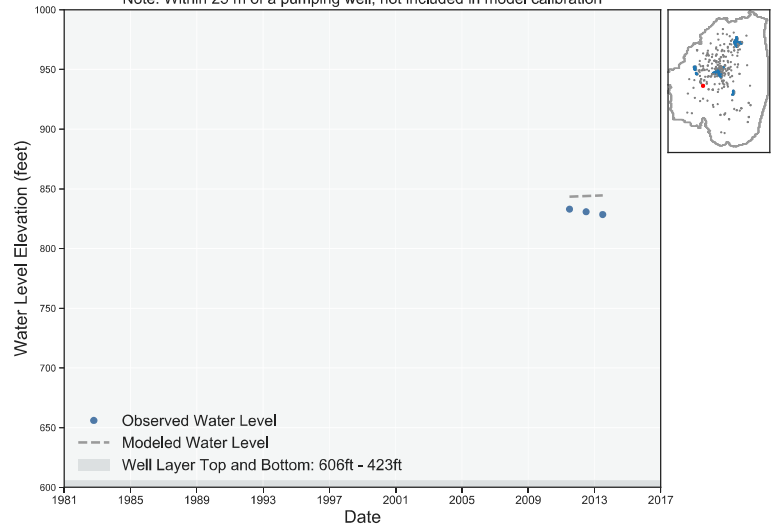
Well 759568 - Aq: OPCJ Layers: 6 - 7

Note: Some values not included in calibration

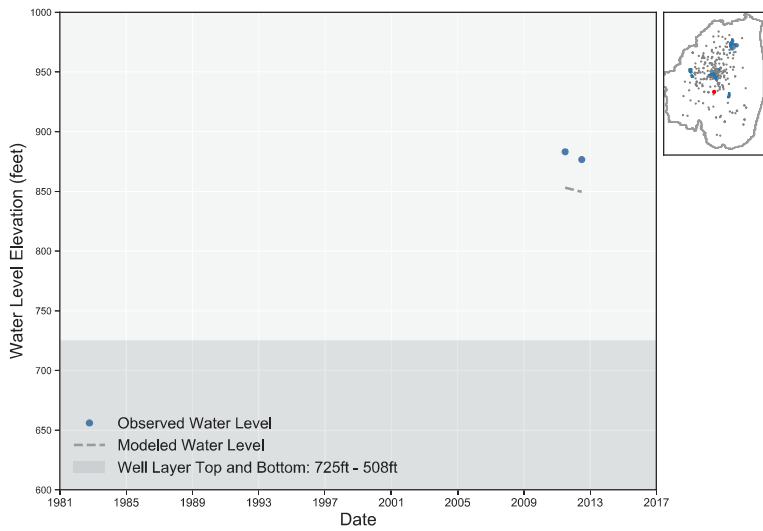


Well 759569 - Aq: OPCJ Layers: 6 - 7

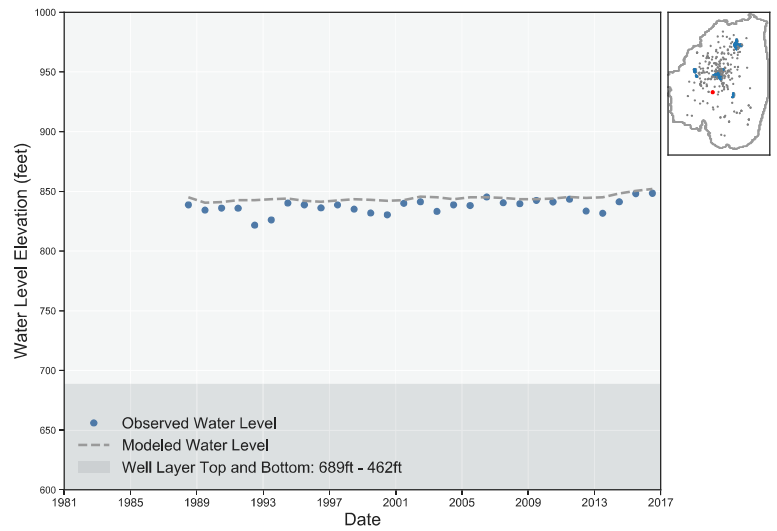
Note: Within 25 m of a pumping well, not included in model calibration



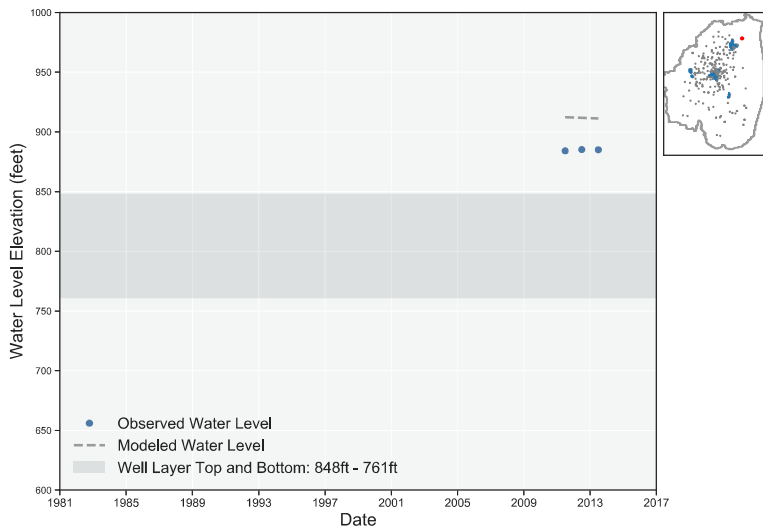
Well 686293 - Aq: OPCJ Layers: 6 - 7



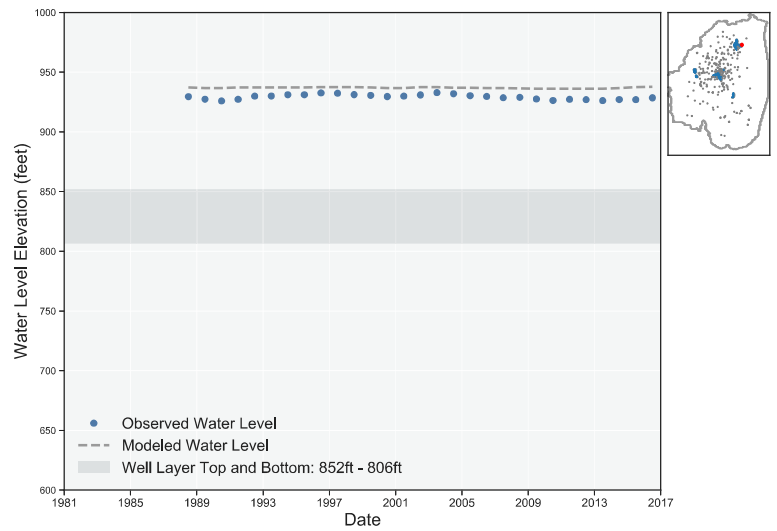
Well 62009 - Aq: OPDCCJDN Layers: 6 - 7



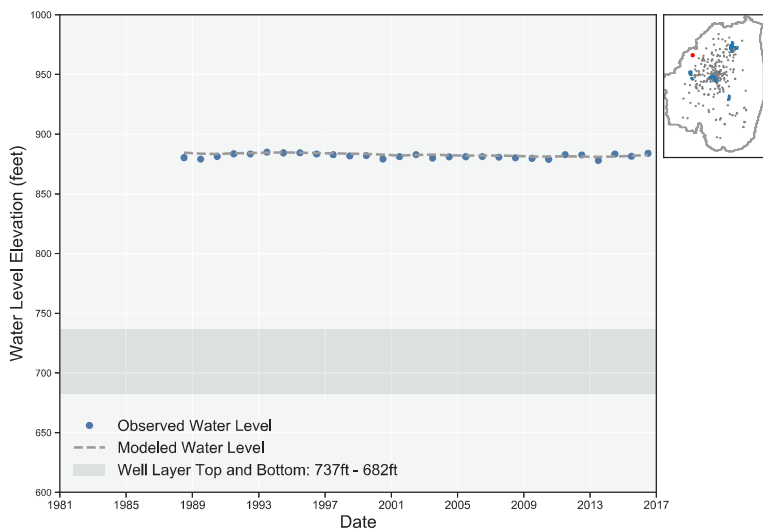
Well 517015 - Aq: OPCJ Layers: 7 - 7



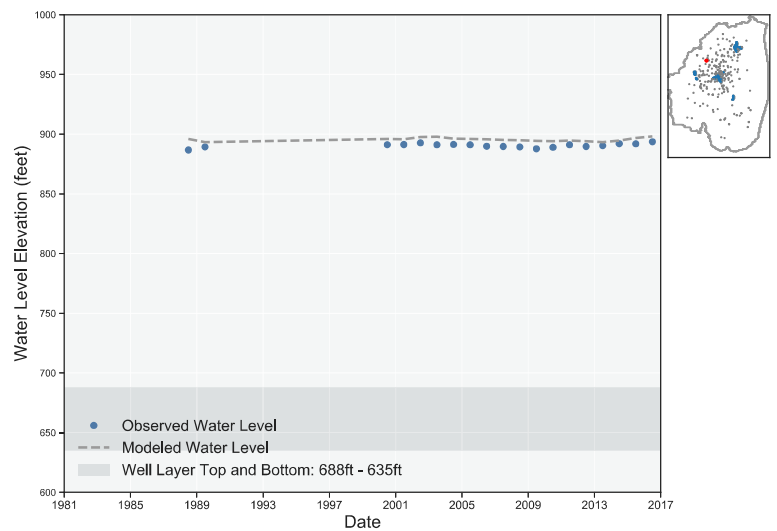
Well 82031 - Aq: CJDN Layers: 7 - 7



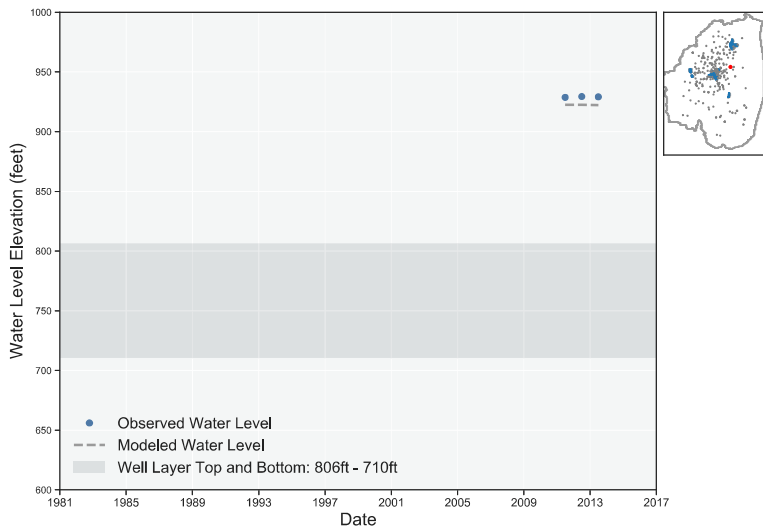
Well 2008 - Aq: QBAA Layers: 7 - 7



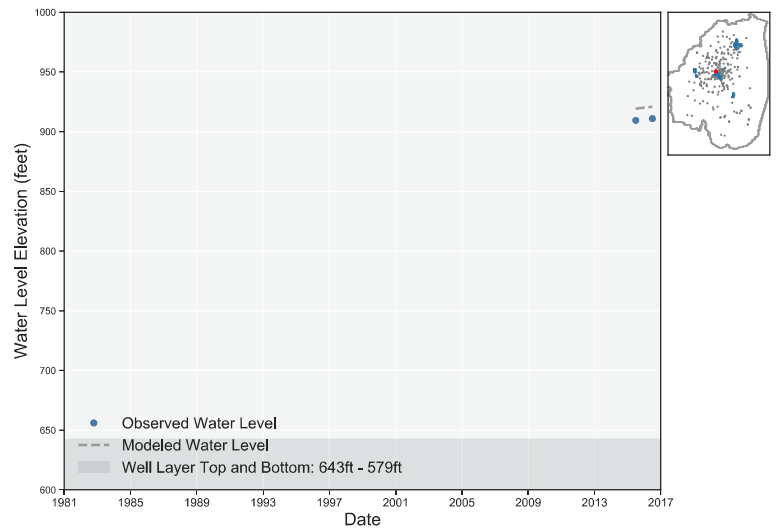
Well 1212 - Aq: CJDN Layers: 7 - 7



Well 409004 - Aq: OSTP Layers: 7 - 7



Well 62054 - Aq: OPDC Layers: 7 - 7



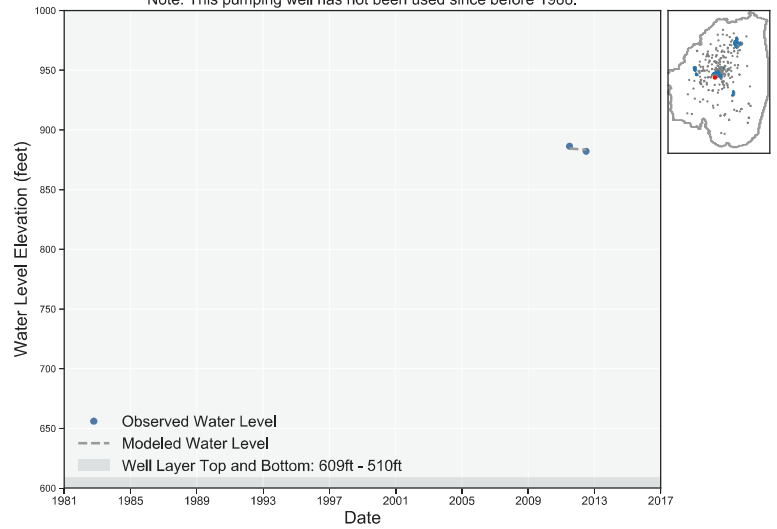
Well 208506 - Aq: CJDN Layers: 7 - 7

Note: This pumping well has not been used since before 1988.

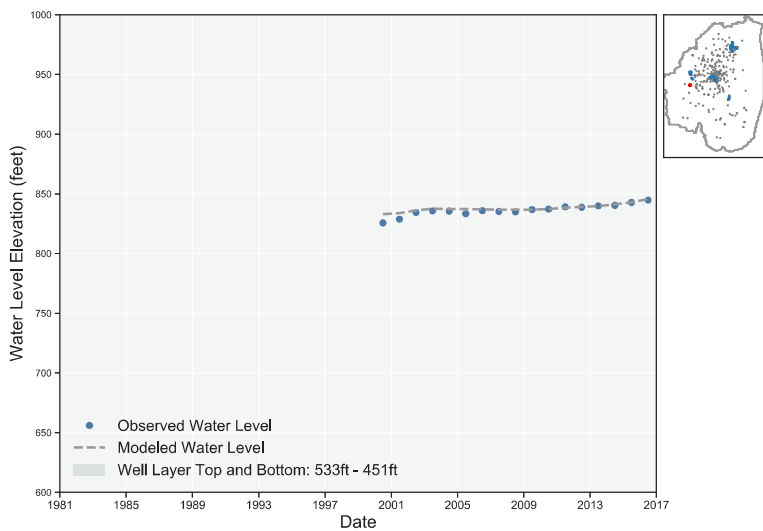


Well 226567 - Aq: CJSL Layers: 7 - 7

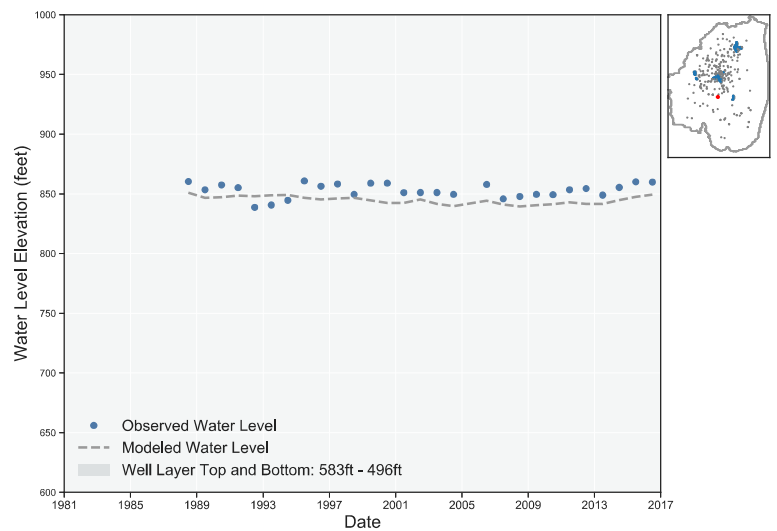
Note: This pumping well has not been used since before 1988.



Well 62030 - Aq: CJDN Layers: 7 - 7

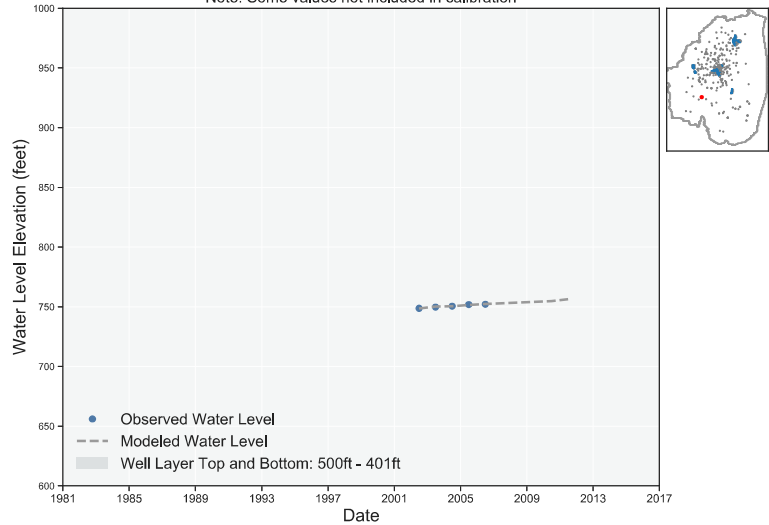


Well 62001 - Aq: CJDN Layers: 7 - 7

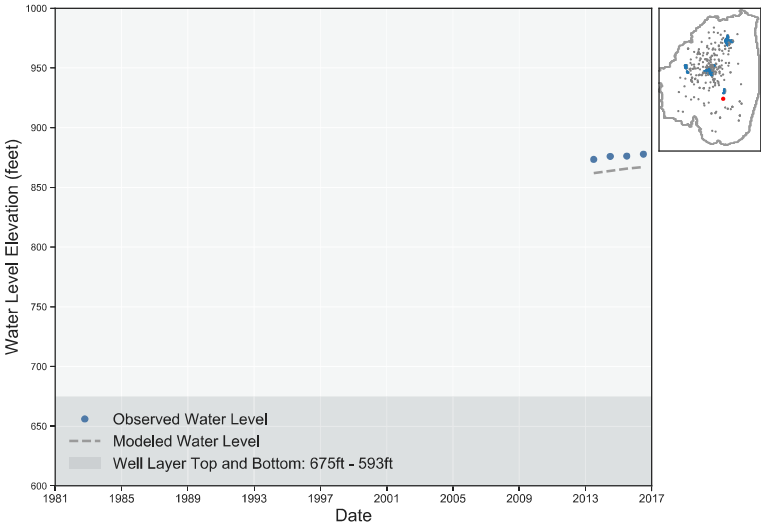


Well 62049 - Aq: CJDN Layers: 7 - 7

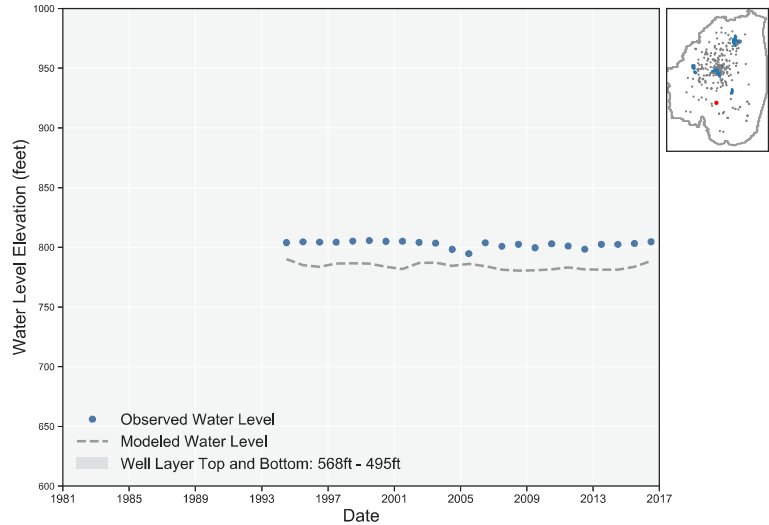
Note: Some values not included in calibration



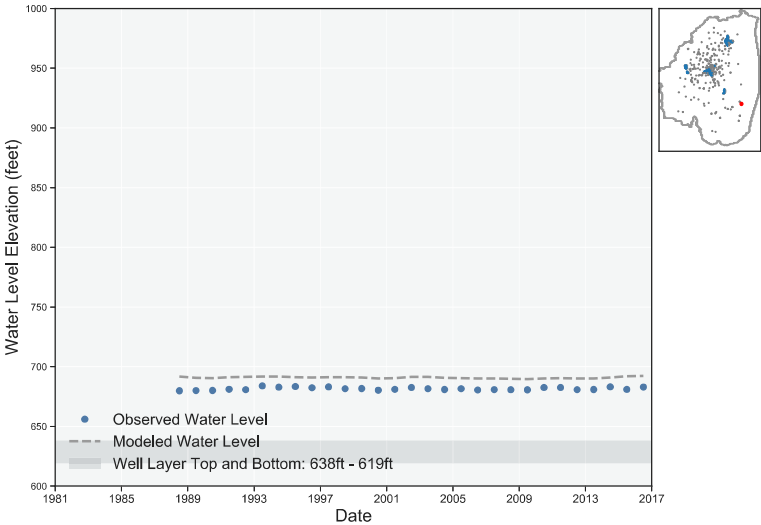
Well 82058 - Aq: QBAA Layers: 7 - 7



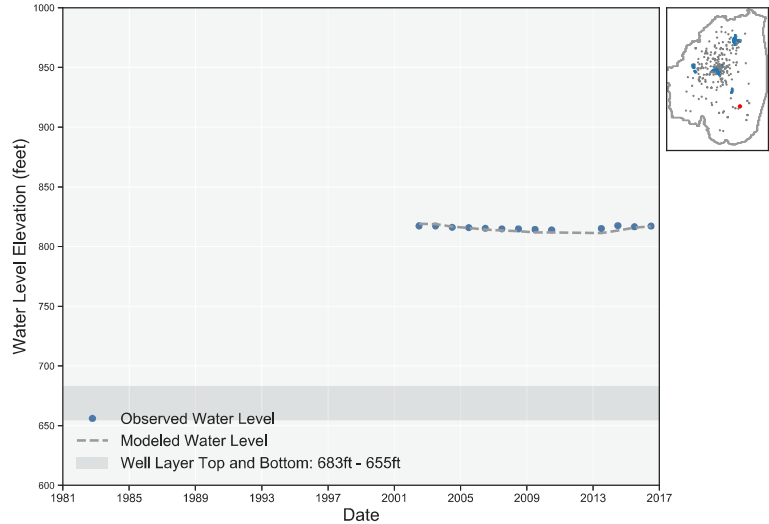
Well 62040 - Aq: CJDN Layers: 7 - 7



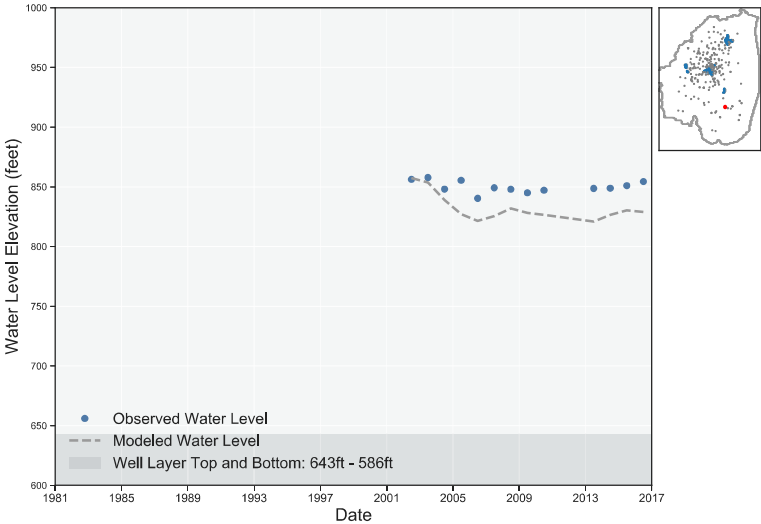
Well 82011 - Aq: CECR Layers: 7 - 7



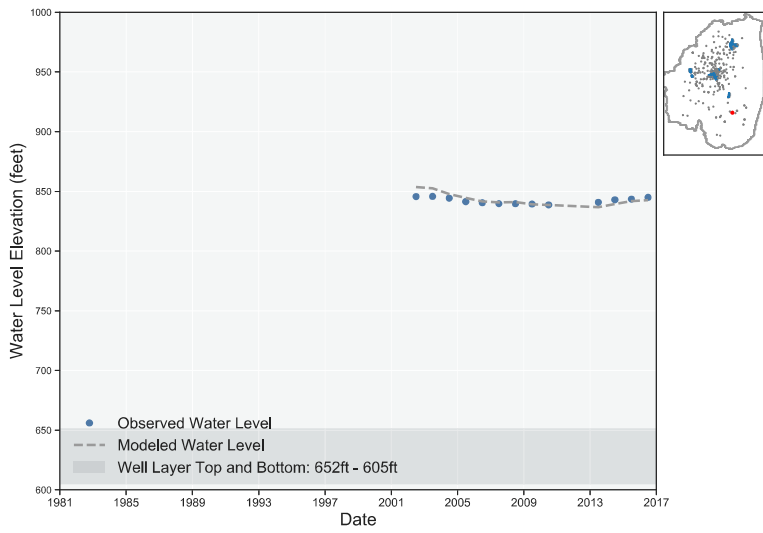
Well 675584 - Aq: CJDN Layers: 7 - 7



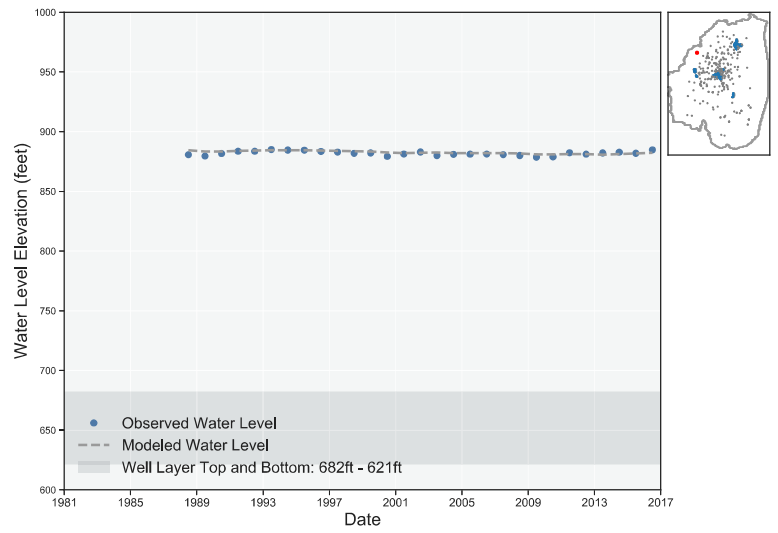
Well 675580 - Aq: CJDN Layers: 7 - 7



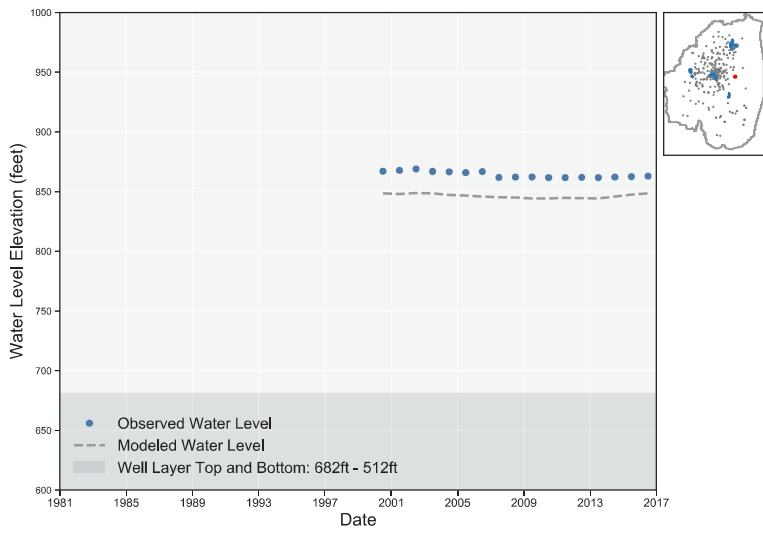
Well 675583 - Aq: CJDN Layers: 7 - 7



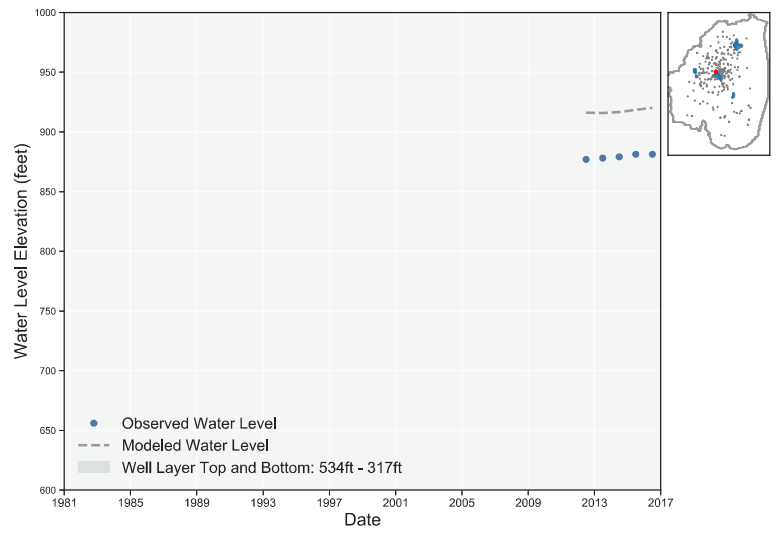
Well 2007 - Aq: QBAA Layers: 8 - 8



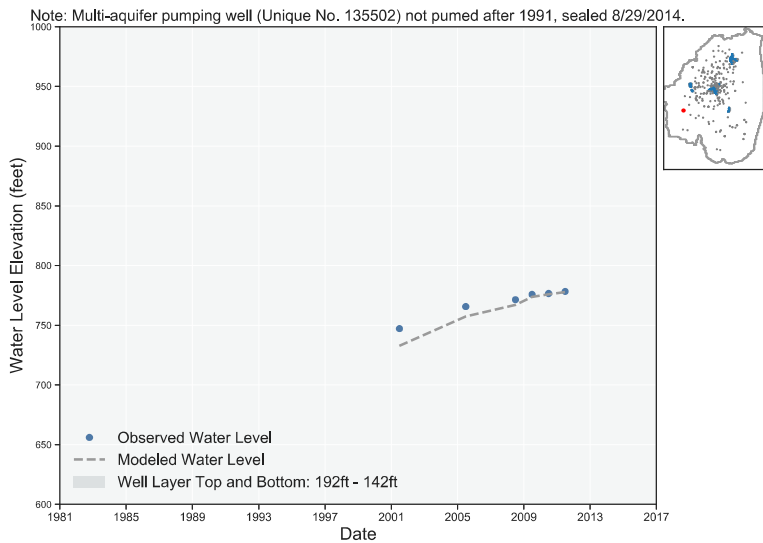
Well 82047 - Aq: CTCG Layers: 9 - 9



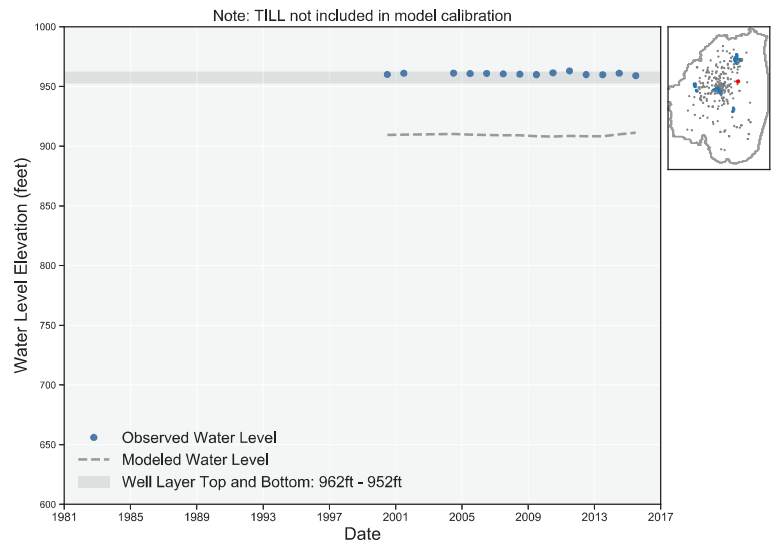
Well 62052 - Aq: CTCW Layers: 9 - 10



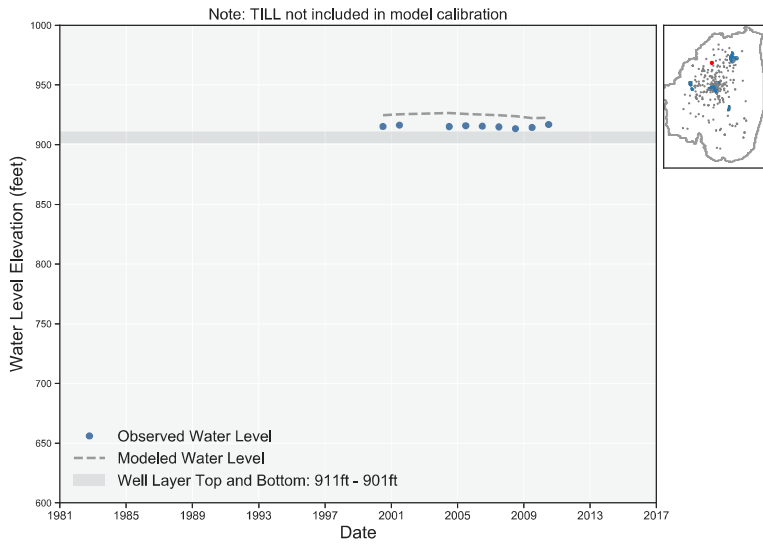
Well 62041 - Aq: CIGL Layers: 10 - 10



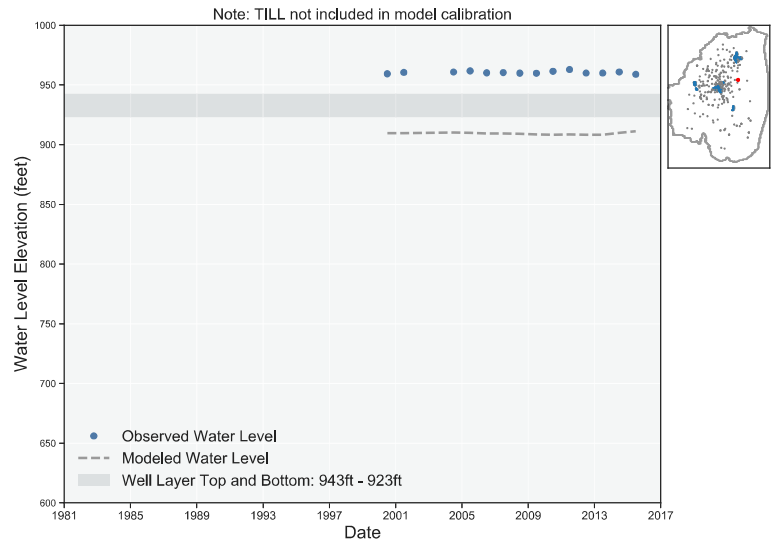
Well 82043 - Aq: TILL Layers: 1 - 1



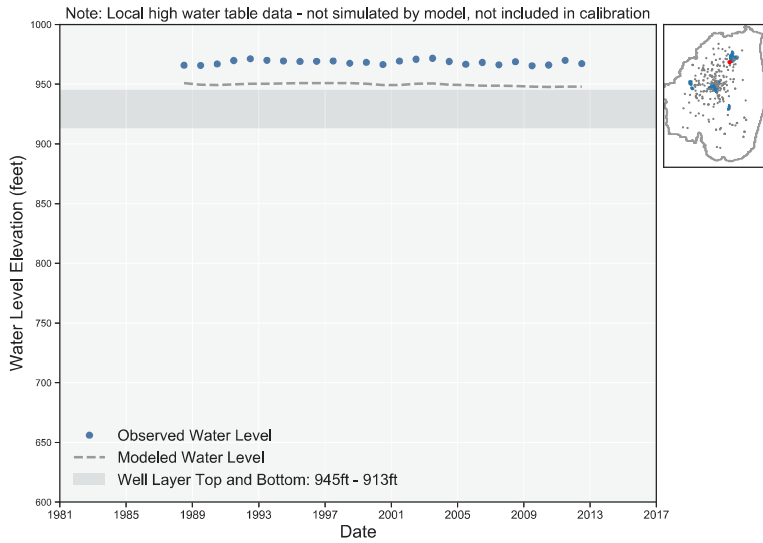
Well 82044 - Aq: TILL Layers: 2 - 2



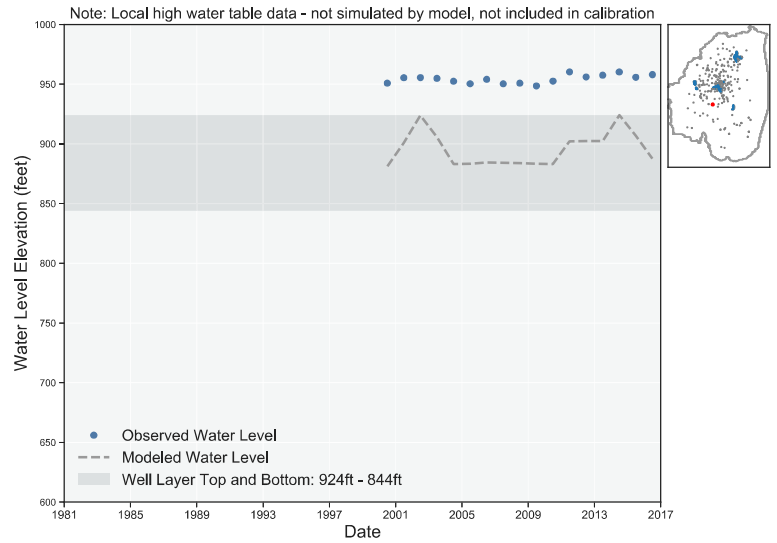
Well 82042 - Aq: TILL Layers: 3 - 3



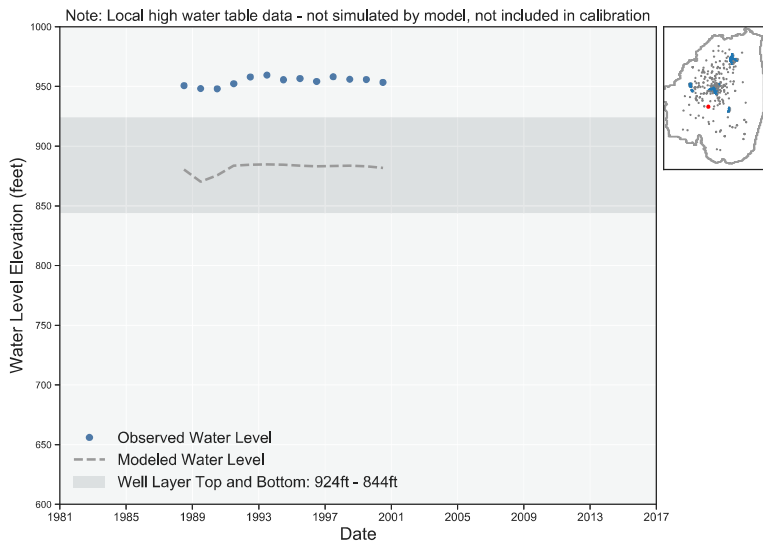
Well 82037 - Aq: QWTA Layers: 4 - 4



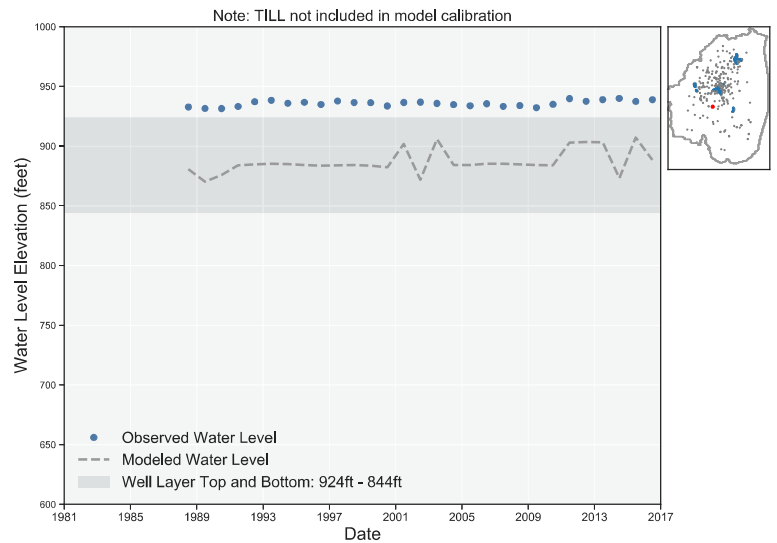
Well 62048 - Aq: QWTA Layers: 4 - 4



Well 62011 - Aq: QBAA Layers: 4 - 4

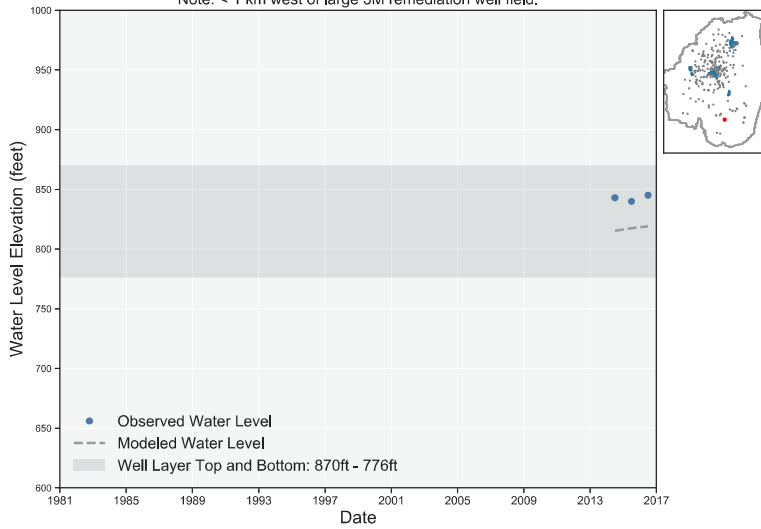


Well 62010 - Aq: TILL Layers: 4 - 4



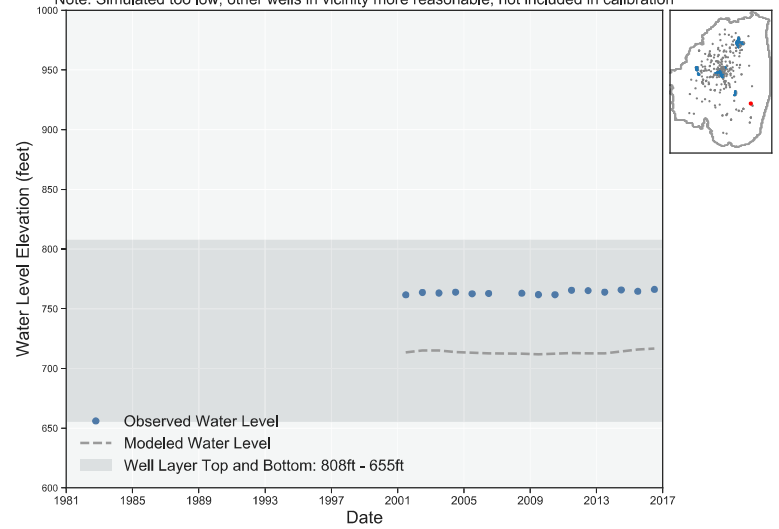
Well 82062 - Aq: QWTA Layers: 4 - 4

Note: < 1 km west of large 3M remediation well field.



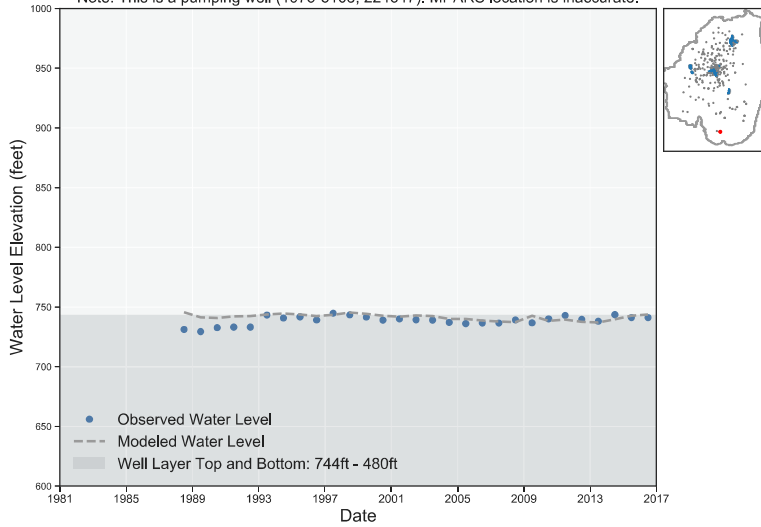
Well 82045 - Aq: CFRNCIGL Layers: 4 - 6

Note: Simulated too low; other wells in vicinity more reasonable, not included in calibration



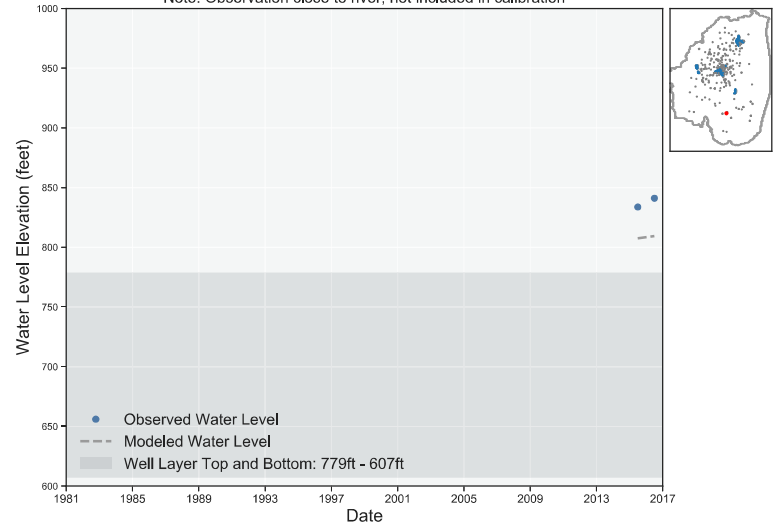
Well 82016 - Aq: OPDCCJDN Layers: 5 - 8

Note: This is a pumping well (1975-6103, 224647). MPARS location is inaccurate.



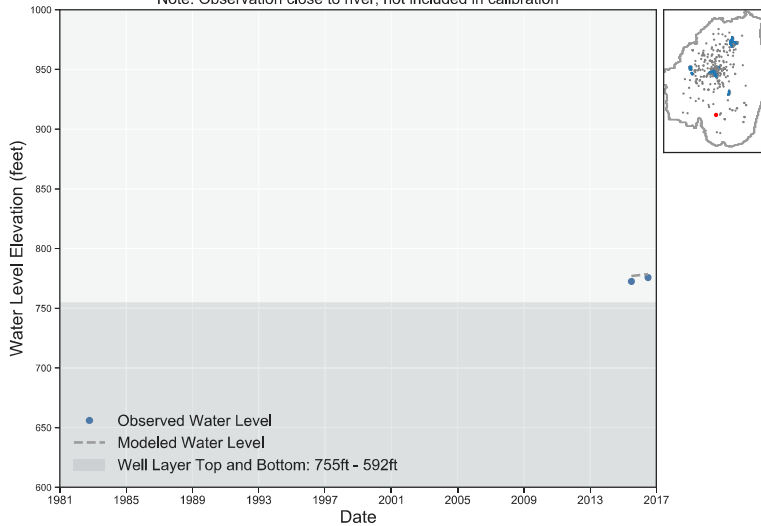
Well 767883 - Aq: OPDC Layers: 6 - 6

Note: Observation close to river, not included in calibration



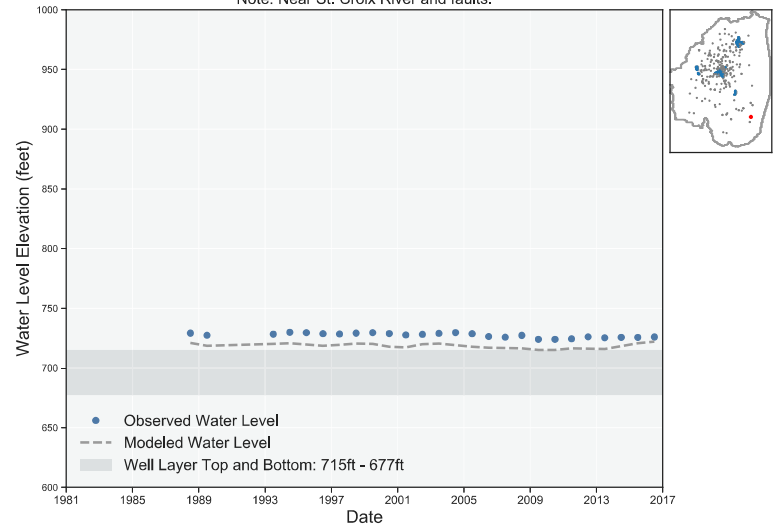
Well 767882 - Aq: OPDC Layers: 6 - 6

Note: Observation close to river, not included in calibration



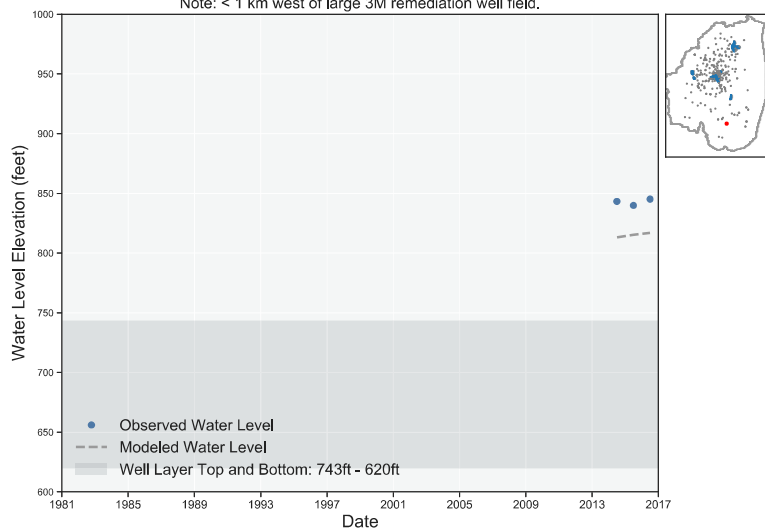
Well 82012 - Aq: CSTL Layers: 6 - 6

Note: Near St. Croix River and faults.



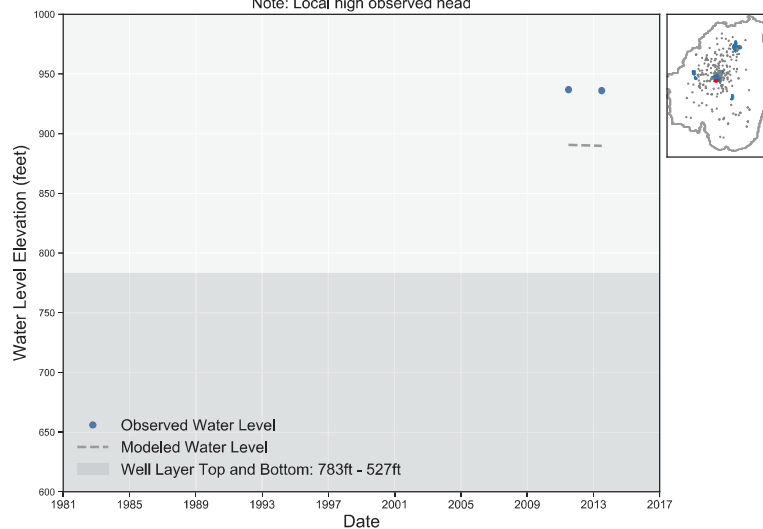
Well 82061 - Aq: OPDC Layers: 6 - 6

Note: < 1 km west of large 3M remediation well field.



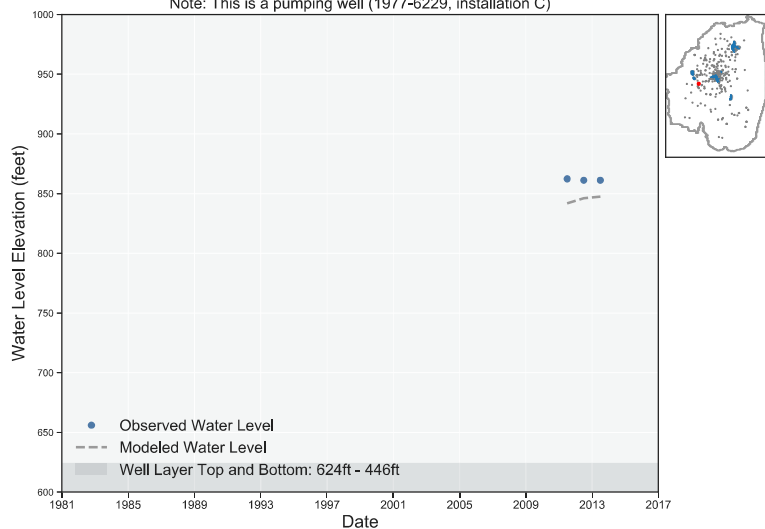
Well 226572 - Aq: OPCJ Layers: 6 - 7

Note: Local high observed head



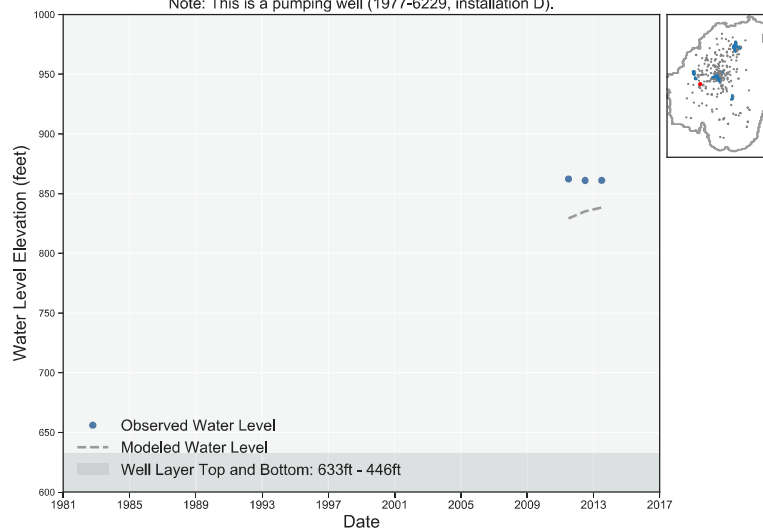
Well 127292 - Aq: OPCJ Layers: 6 - 7

Note: This is a pumping well (1977-6229, installation C)



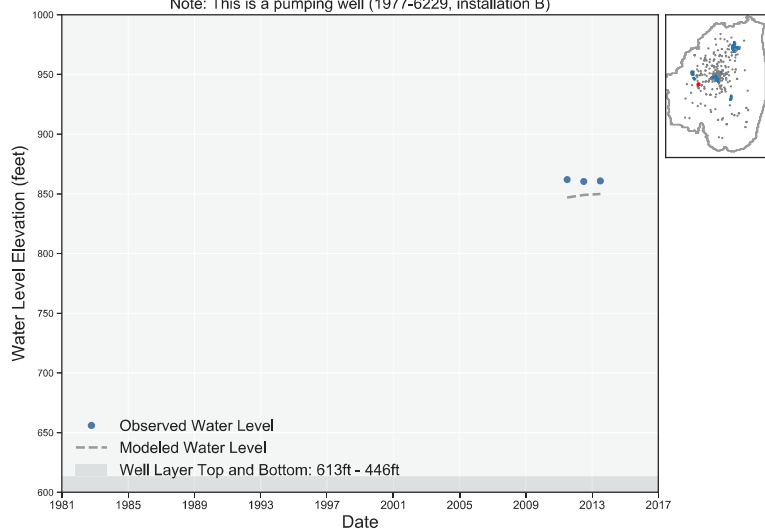
Well 151583 - Aq: OPCJ Layers: 6 - 7

Note: This is a pumping well (1977-6229, installation D).



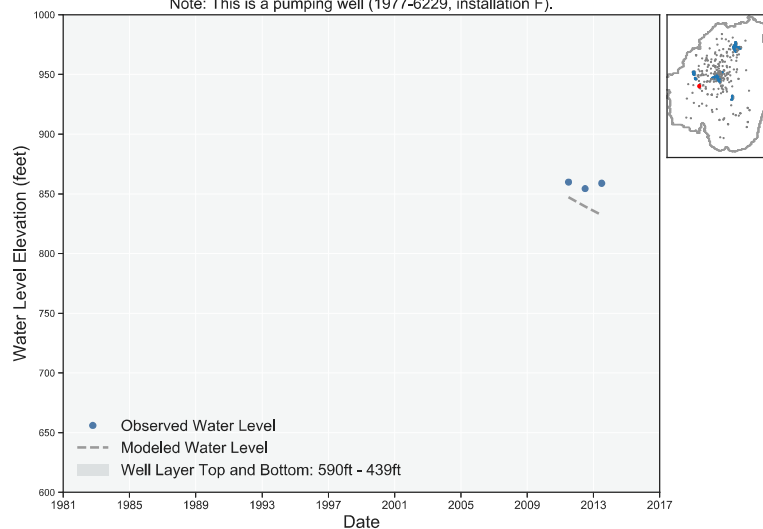
Well 133312 - Aq: OPCJ Layers: 6 - 7

Note: This is a pumping well (1977-6229, installation B)

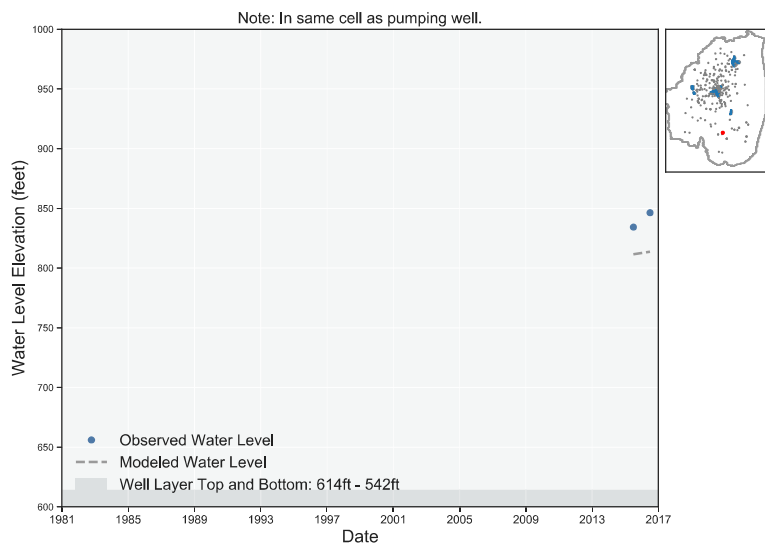


Well 706803 - Aq: OPCJ Layers: 6 - 7

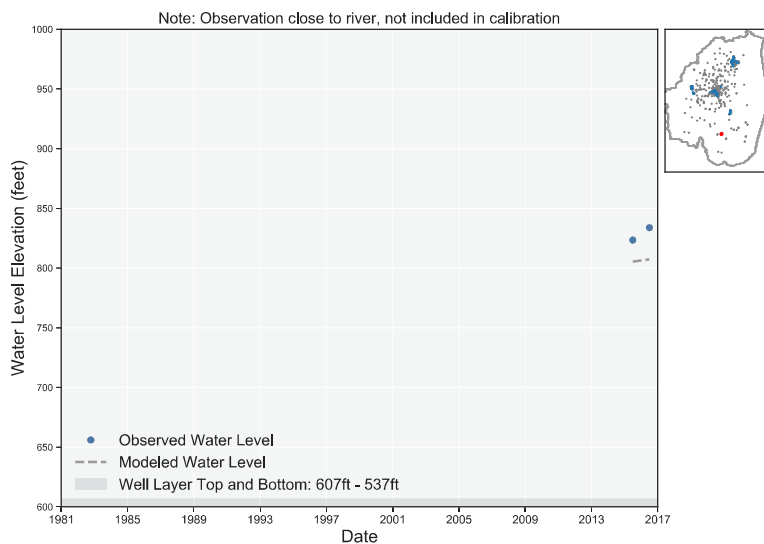
Note: This is a pumping well (1977-6229, installation F).



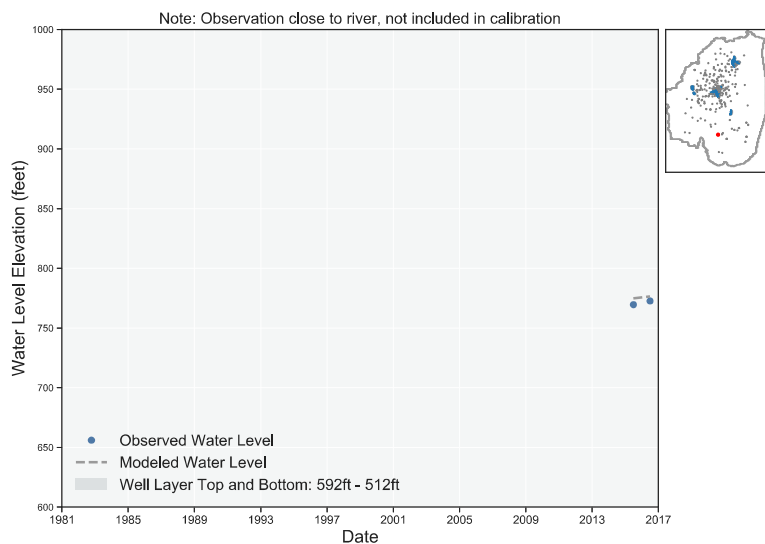
Well 763366 - Aq: CJDN Layers: 7 - 7



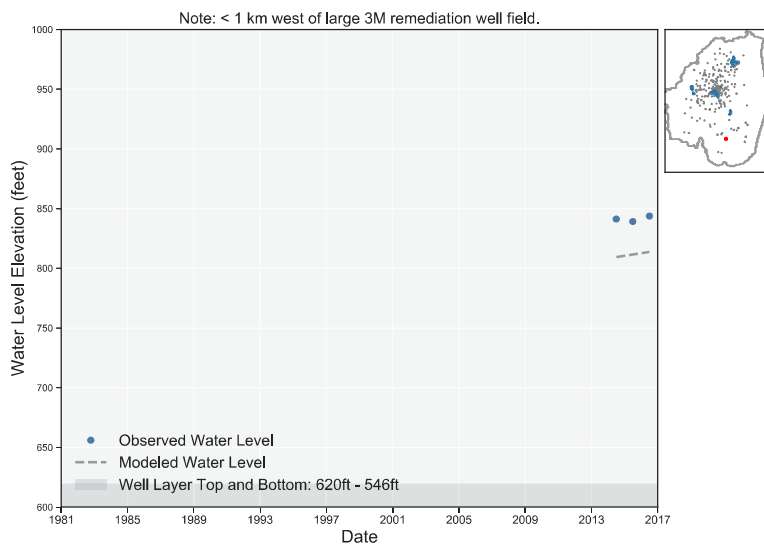
Well 767884 - Aq: CJDN Layers: 7 - 7



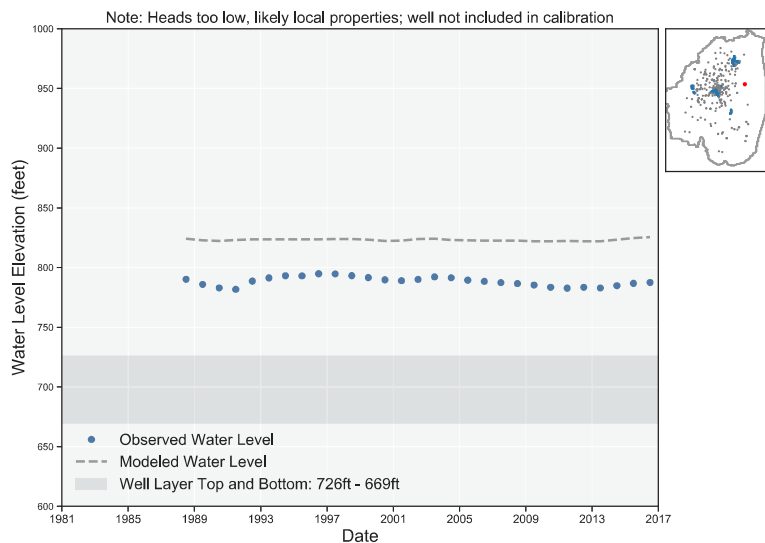
Well 767885 - Aq: CJDN Layers: 7 - 7



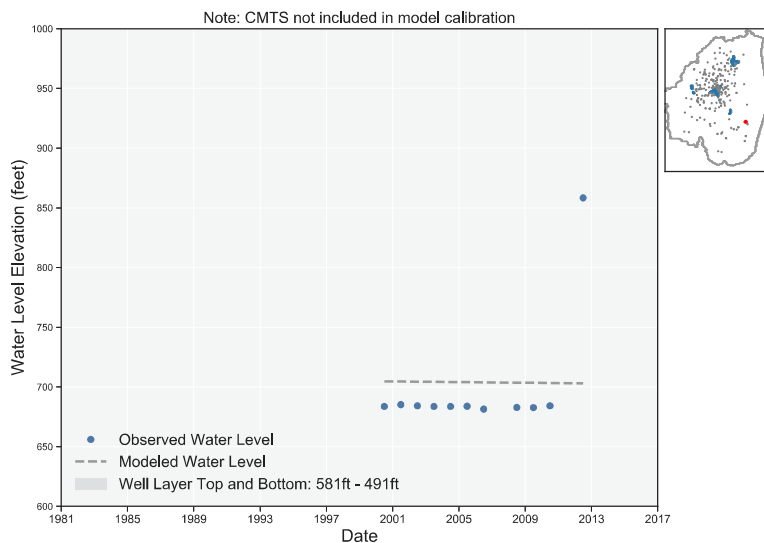
Well 82060 - Aq: CJDN Layers: 7 - 7



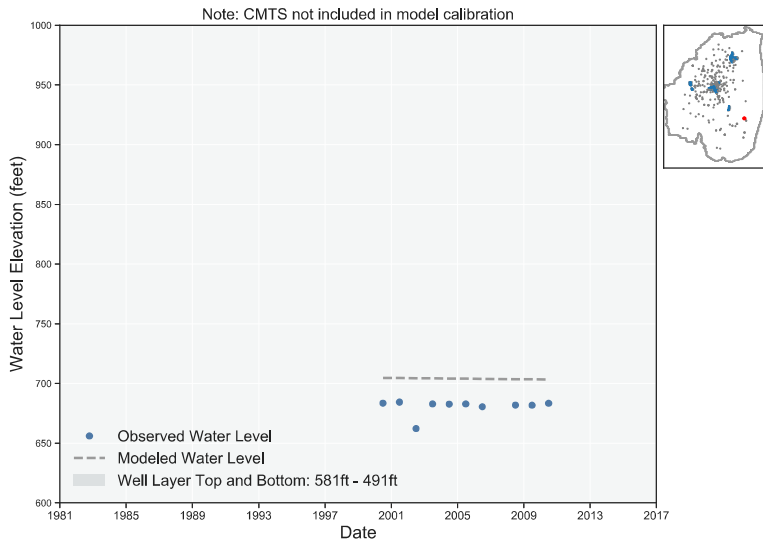
Well 82023 - Aq: QBAA Layers: 8 - 8



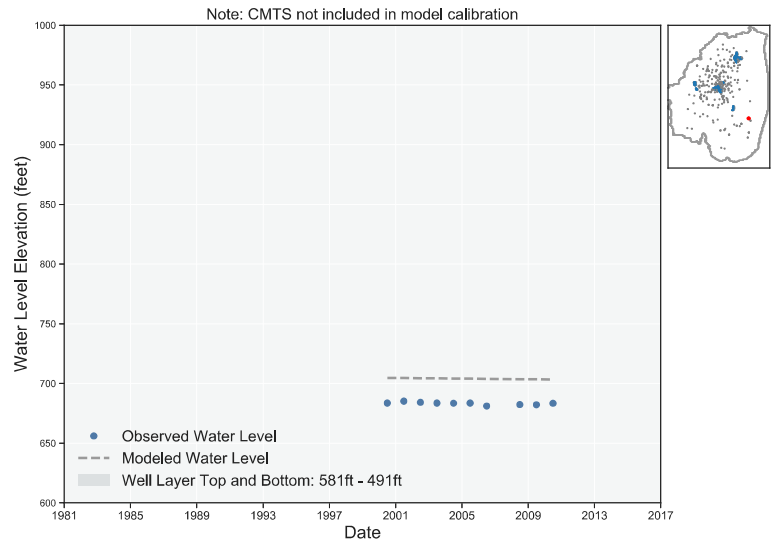
Well 82046 - Aq: CMTS Layers: 9 - 9



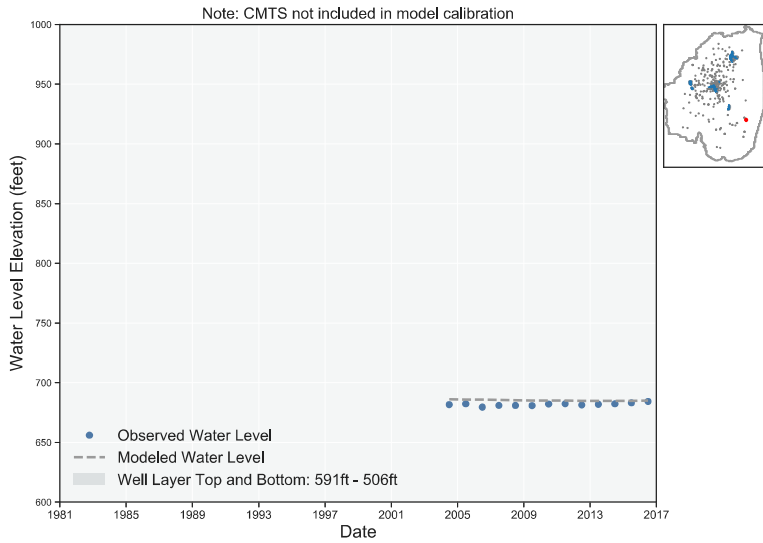
Well 82049 - Aq: CMTS Layers: 9 - 9



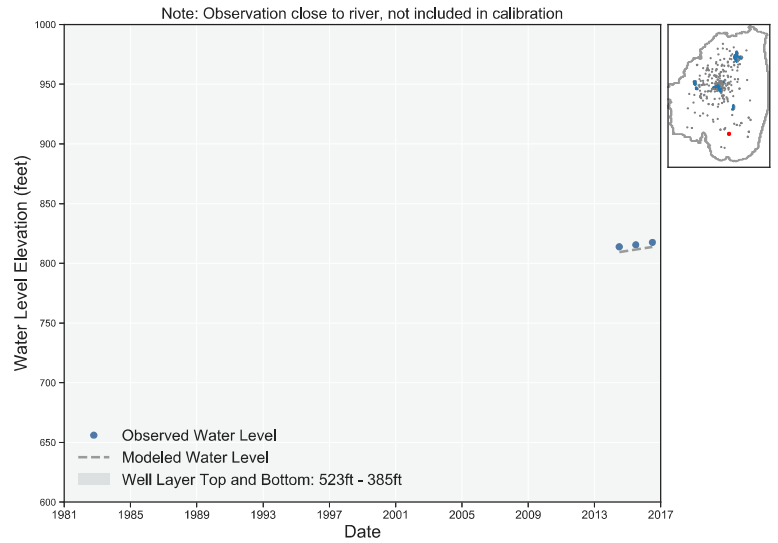
Well 82050 - Aq: CMTS Layers: 9 - 9



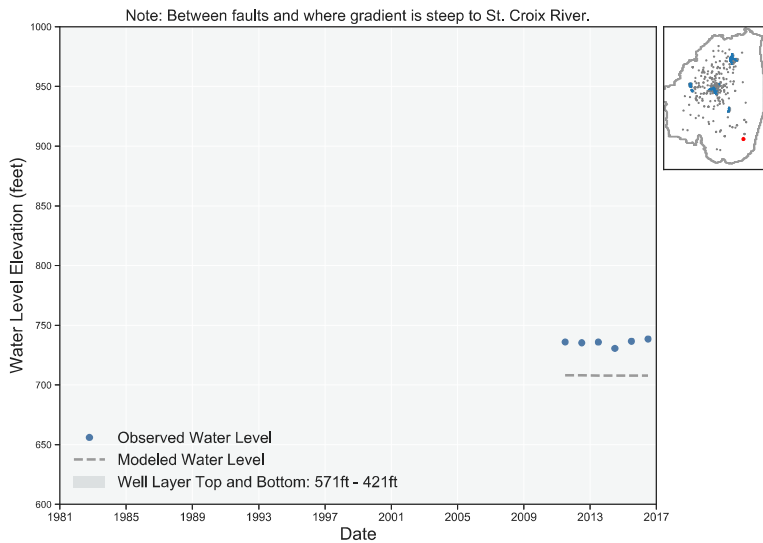
Well 82051 - Aq: CECRCMTS Layers: 9 - 9



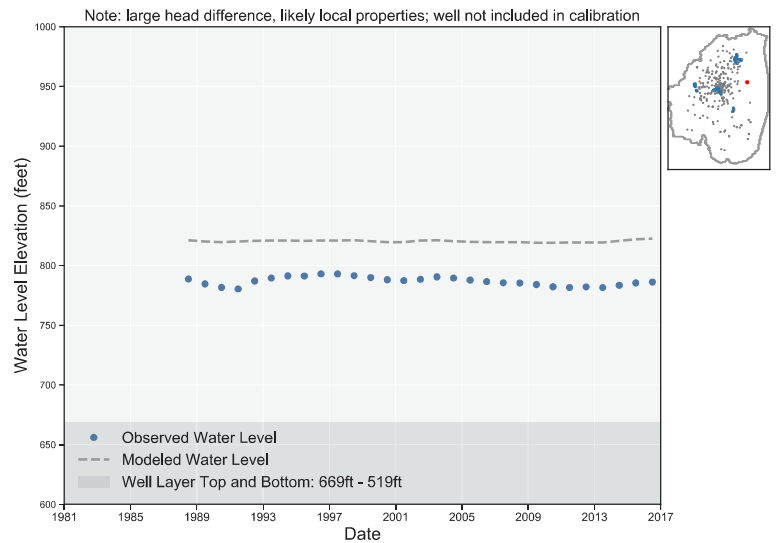
Well 82059 - Aq: CTCG Layers: 9 - 9



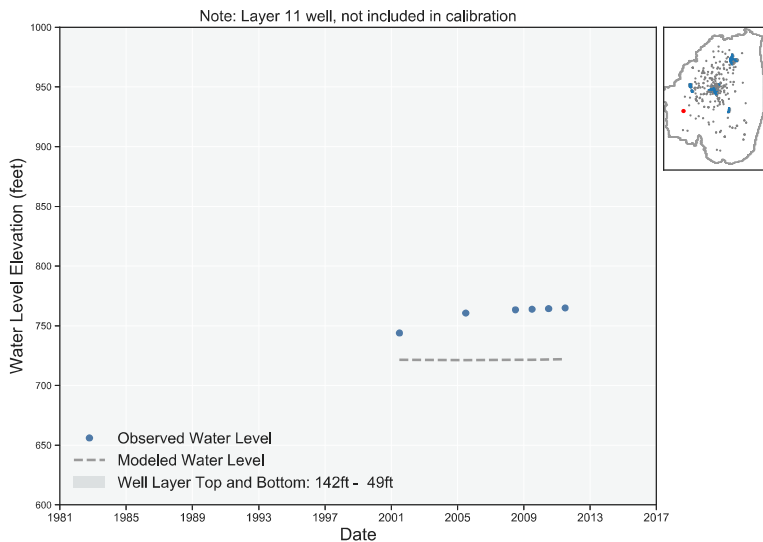
Well 82054 - Aq: CFG Layers: 9 - 9



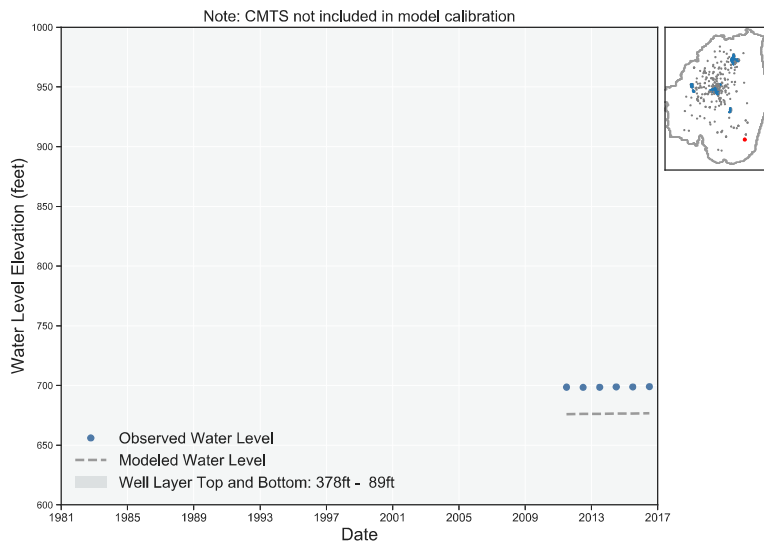
Well 82022 - Aq: CFRNCIGL Layers: 9 - 10



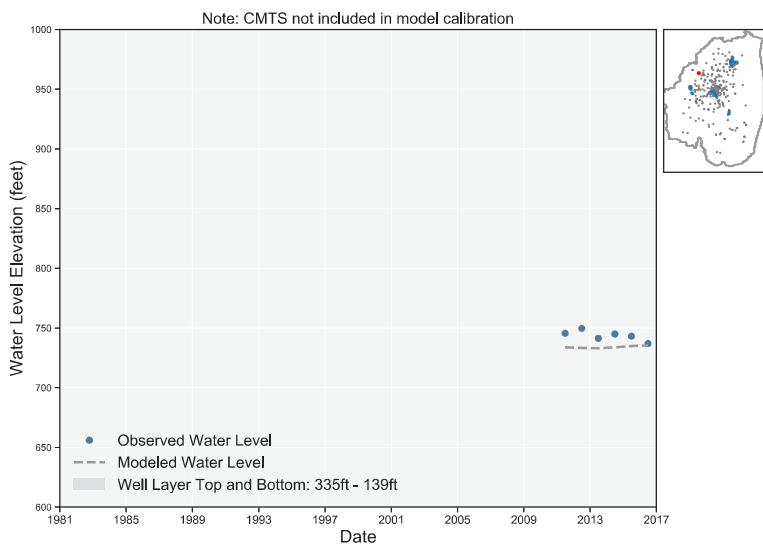
Well 62042 - Aq: CECR Layers: 11 - 11



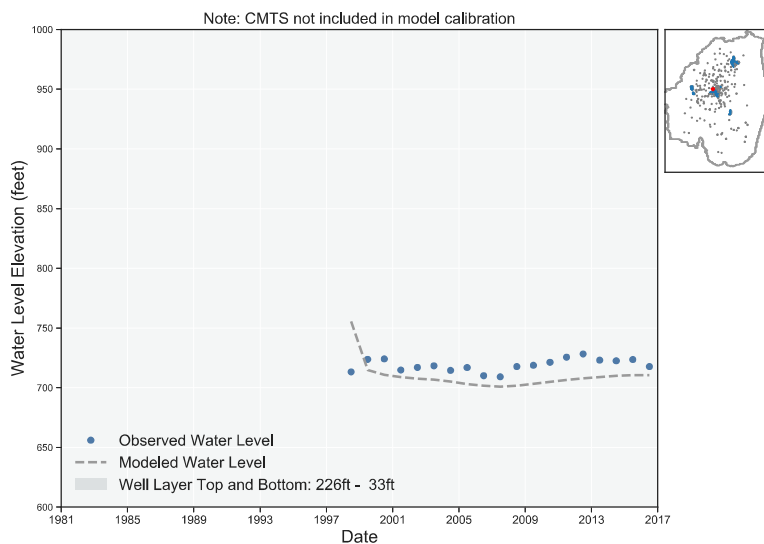
Well 82053 - Aq: CMTS Layers: 11 - 12



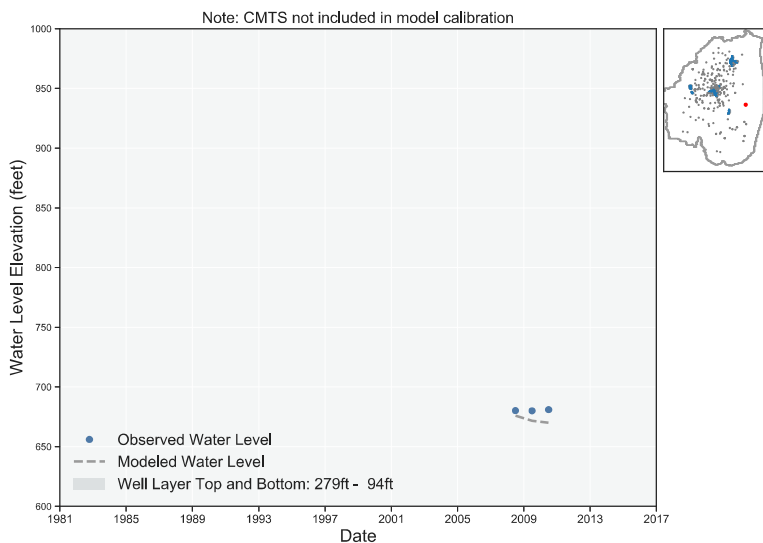
Well 2038 - Aq: CMTS Layers: 12 - 12



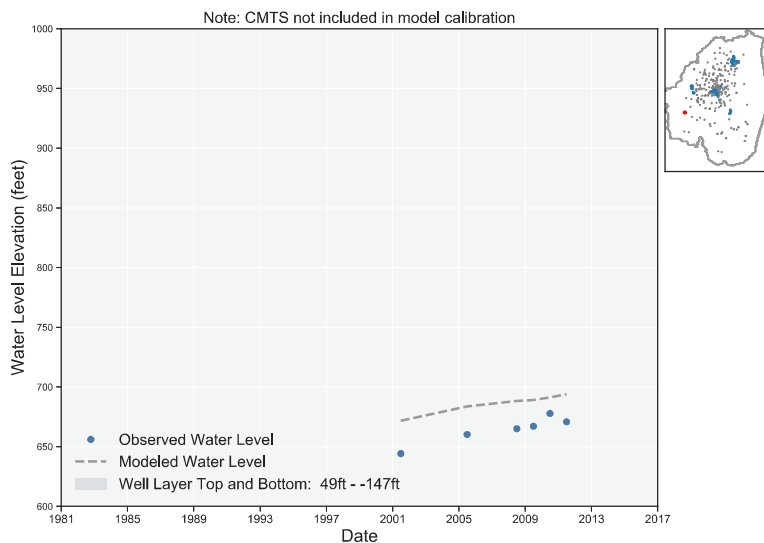
Well 62046 - Aq: CMTS Layers: 12 - 12



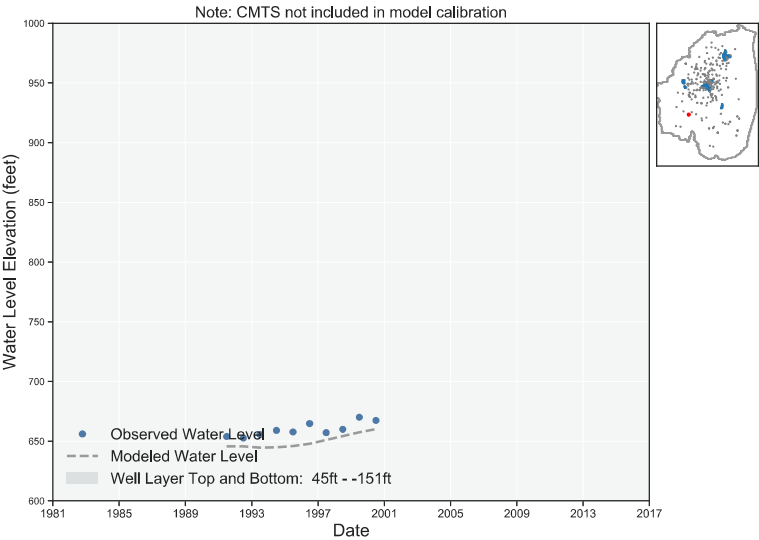
Well 82052 - Aq: CMTS Layers: 12 - 12



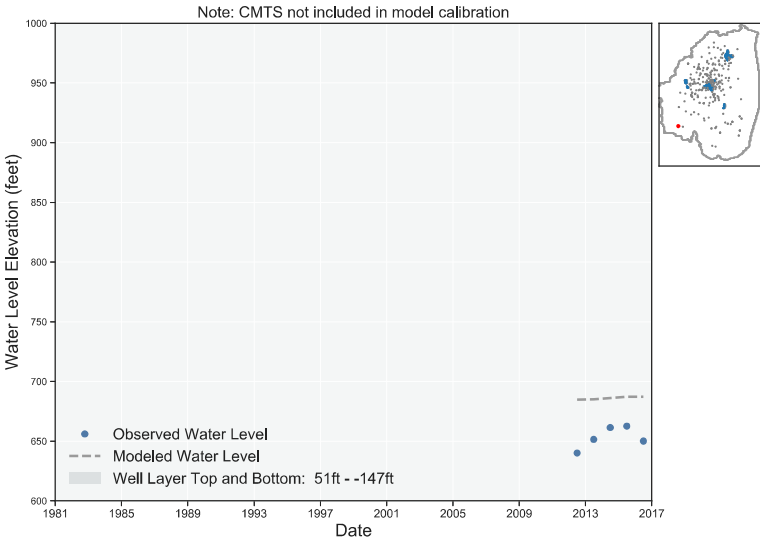
Well 62043 - Aq: CMTS Layers: 12 - 12



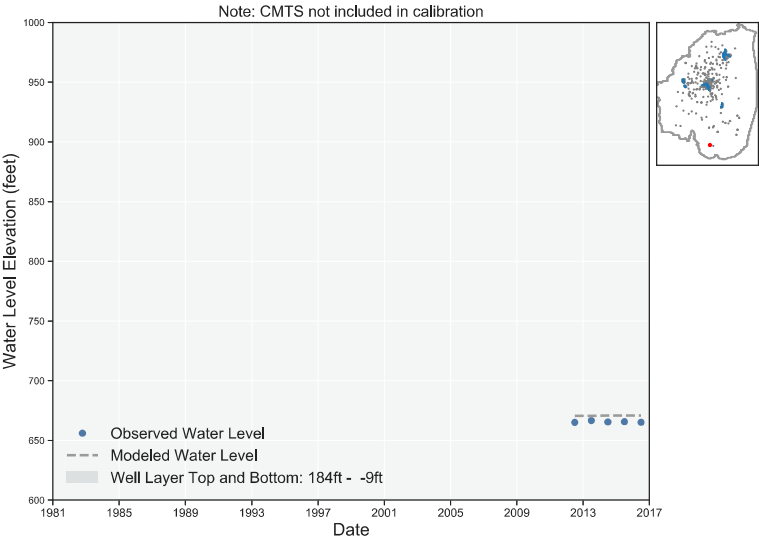
Well 62036 - Aq: CMTS Layers: 12 - 12



Well 27069 - Aq: CMTS Layers: 12 - 12

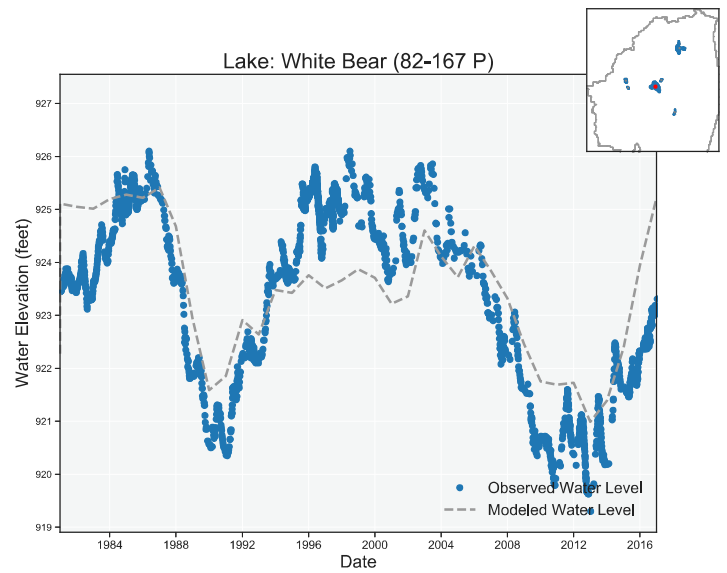
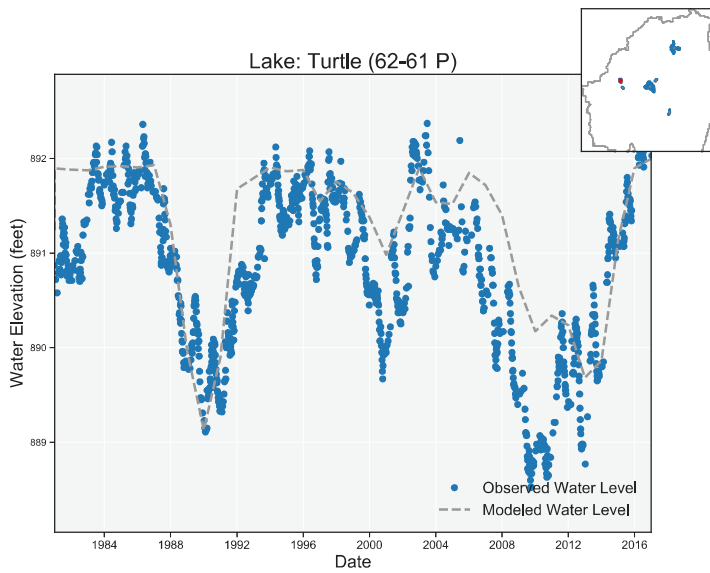
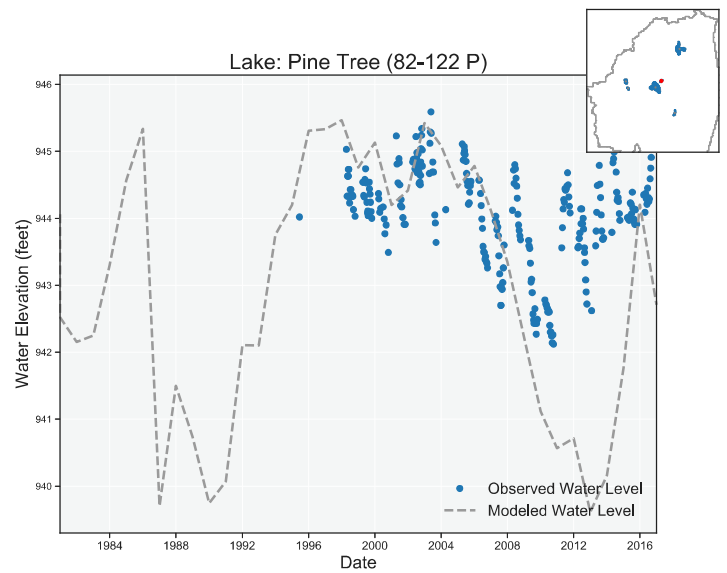
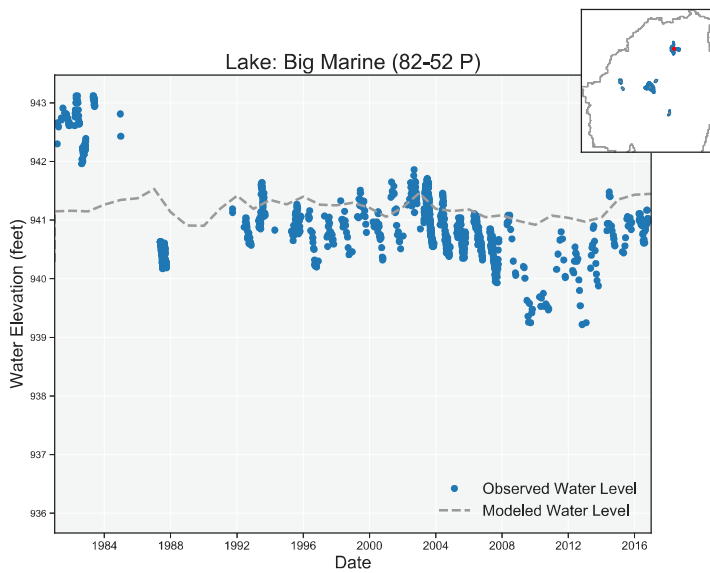
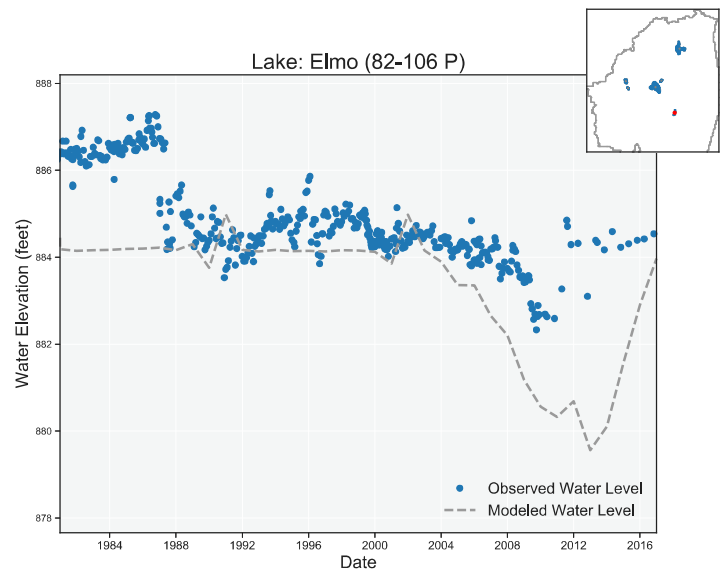
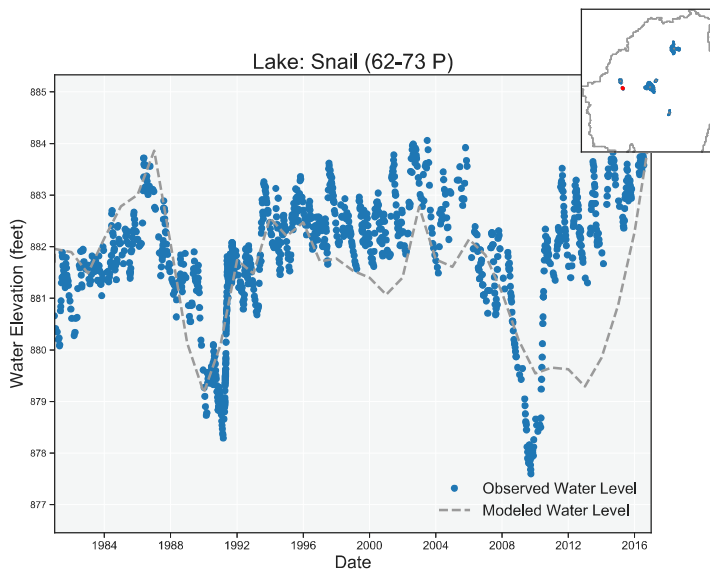


Well 82056 - Aq: CMTS Layers: 12 - 12

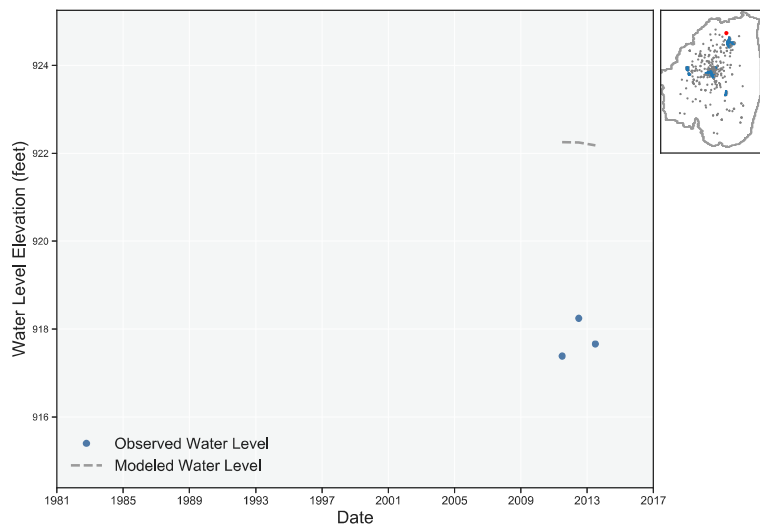


Appendix B-2

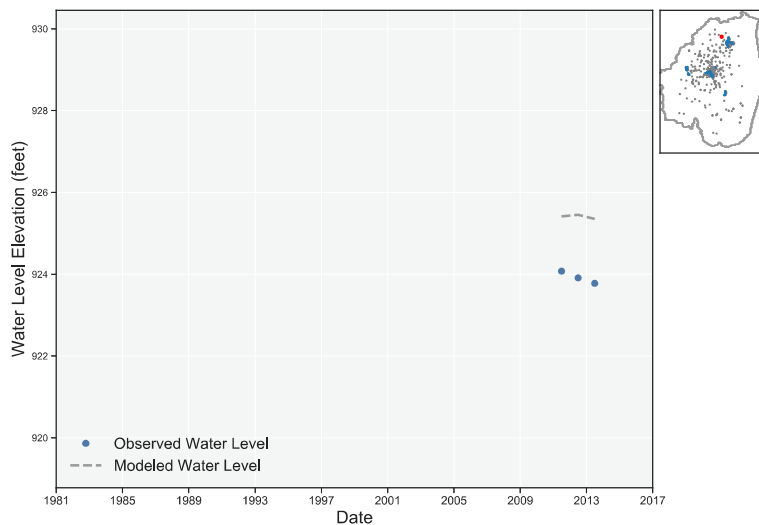
Auto-scaled Plots for the Annual Stress Period Model



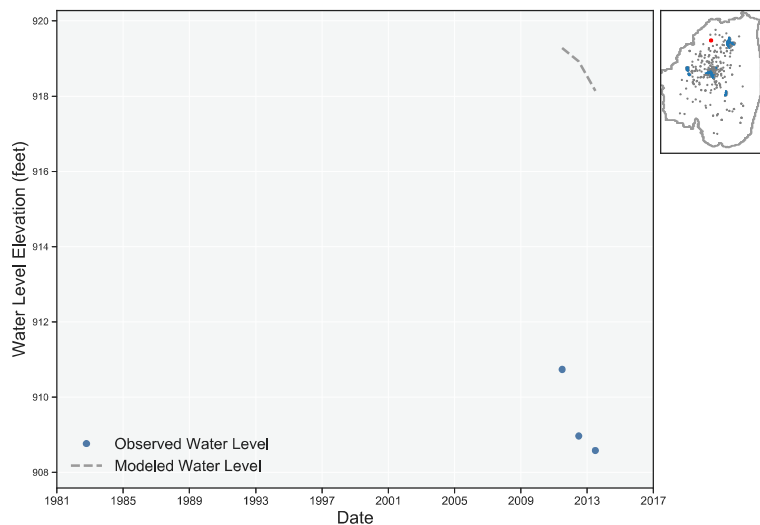
Well 138275 - Aq: QBAA Layers: 4 - 4



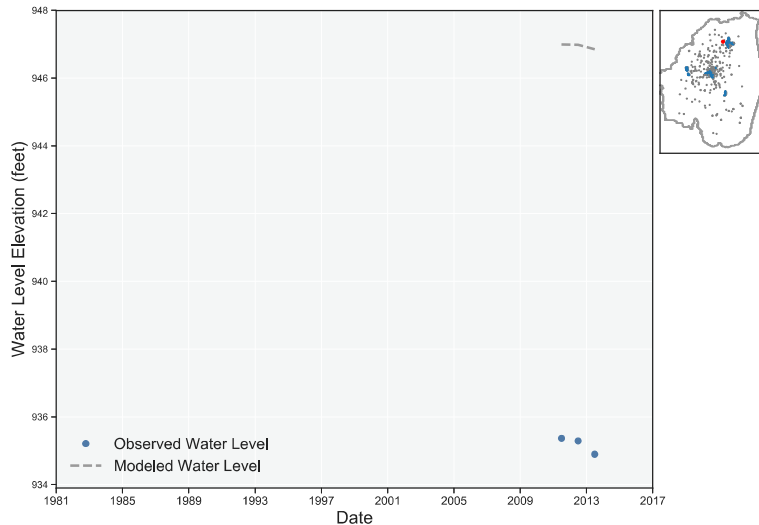
Well 446292 - Aq: QBAA Layers: 4 - 4



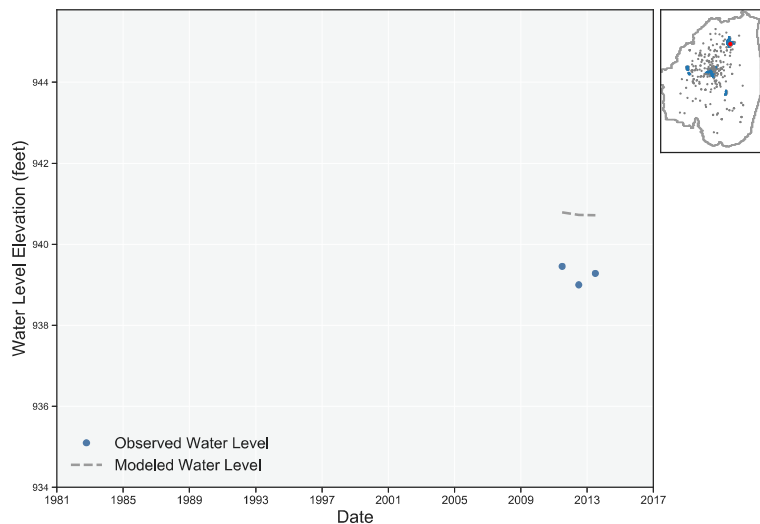
Well 404644 - Aq: QBAA Layers: 4 - 4



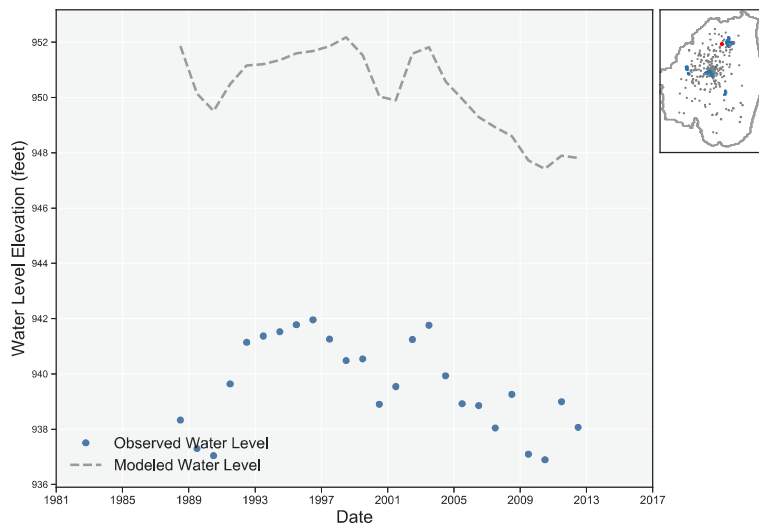
Well 112422 - Aq: QBAA Layers: 4 - 4



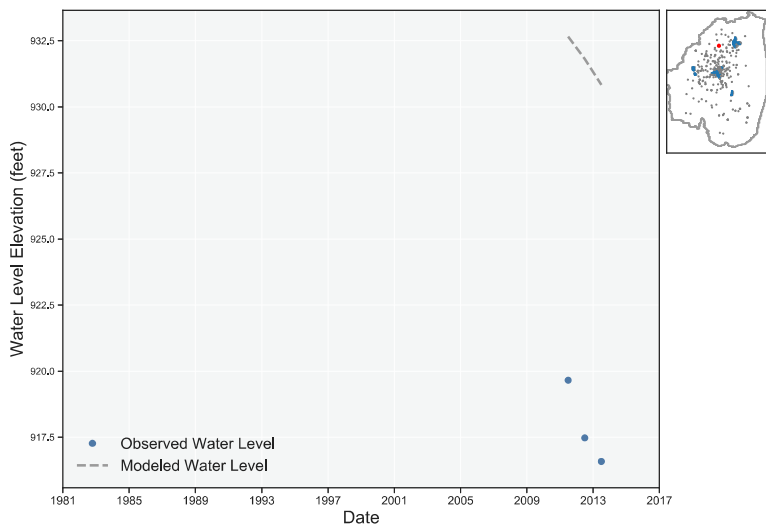
Well 139010 - Aq: QBAA Layers: 4 - 4



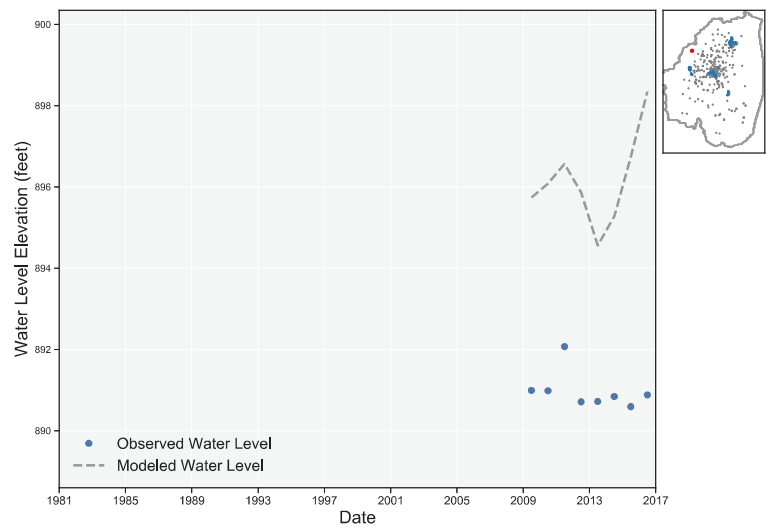
Well 82036 - Aq: QWTA Layers: 4 - 4



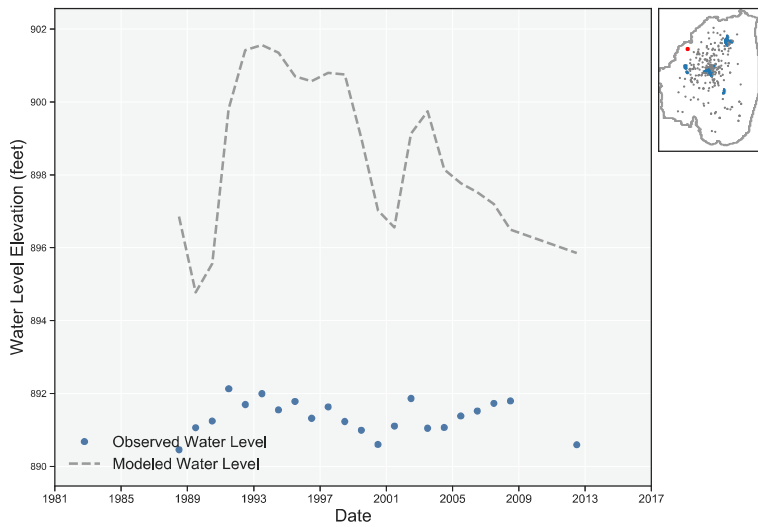
Well 136144 - Aq: QBAA Layers: 4 - 4



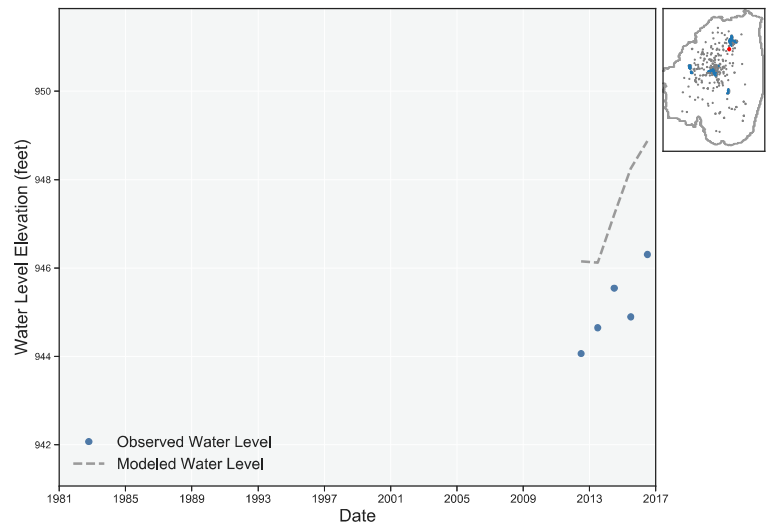
Well 2030 - Aq: QWTA Layers: 4 - 4



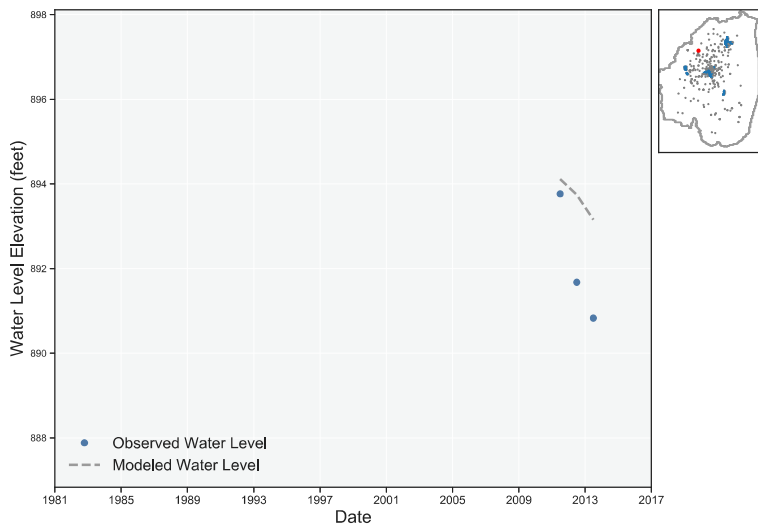
Well 2010 - Aq: QWTA Layers: 4 - 4



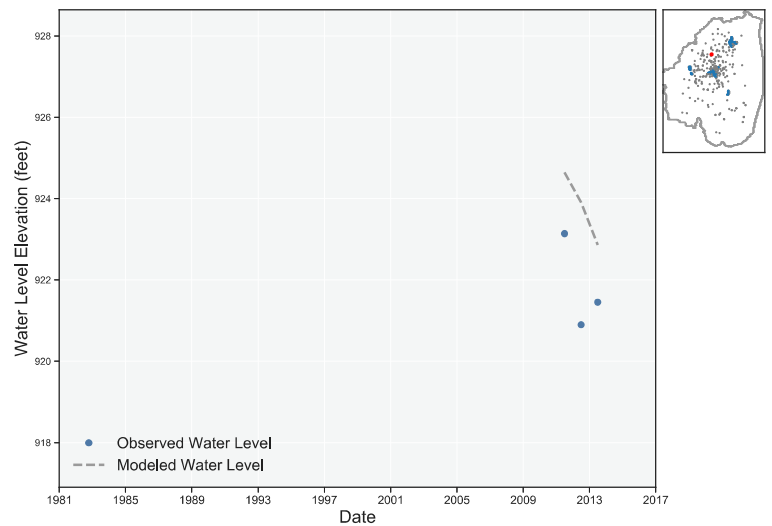
Well 82055 - Aq: QBAA Layers: 4 - 4



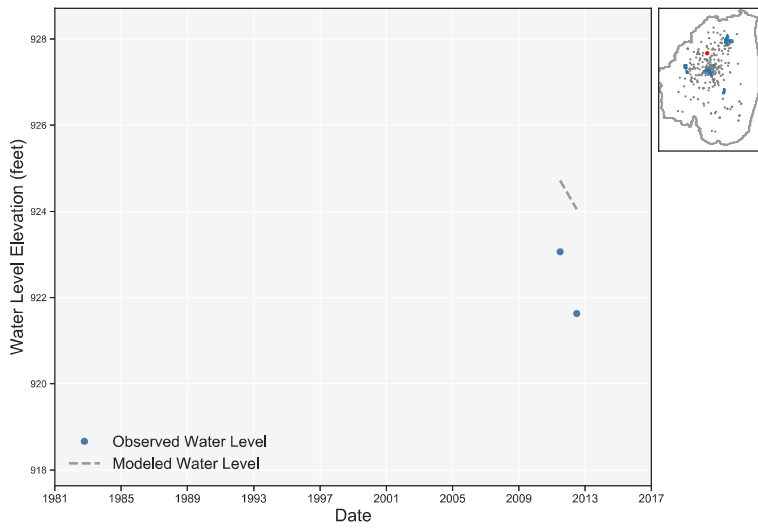
Well 169252 - Aq: QBAA Layers: 4 - 4



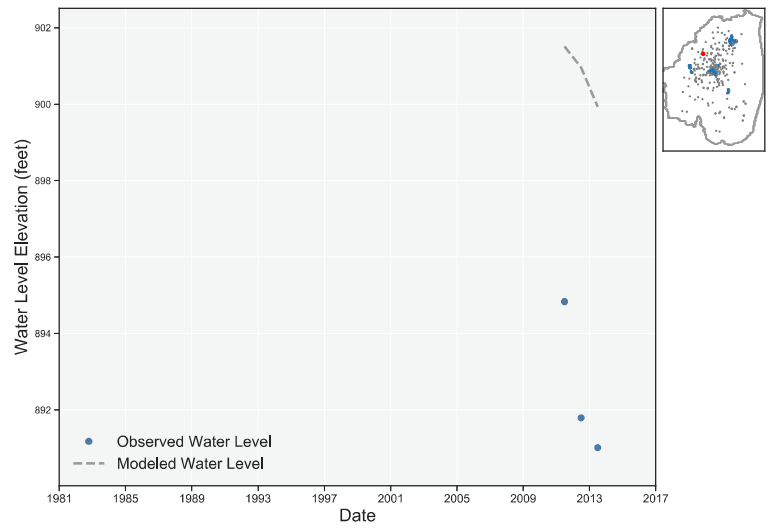
Well 620717 - Aq: QWTA Layers: 4 - 4



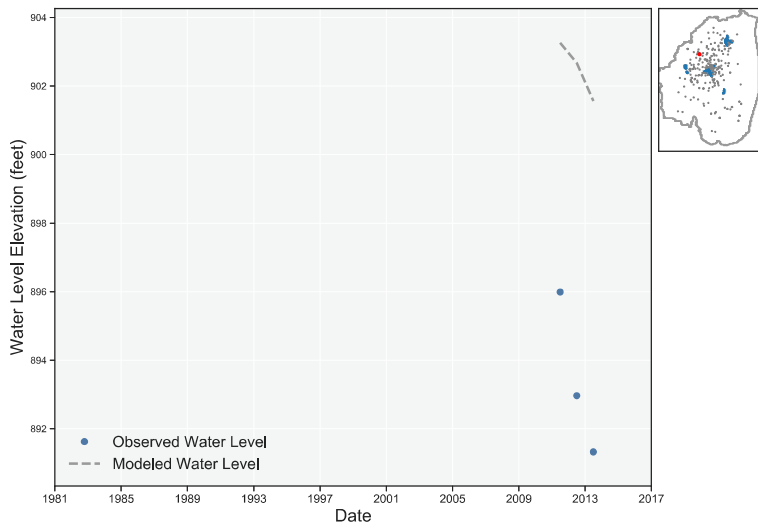
Well 620718 - Aq: QWTA Layers: 4 - 4



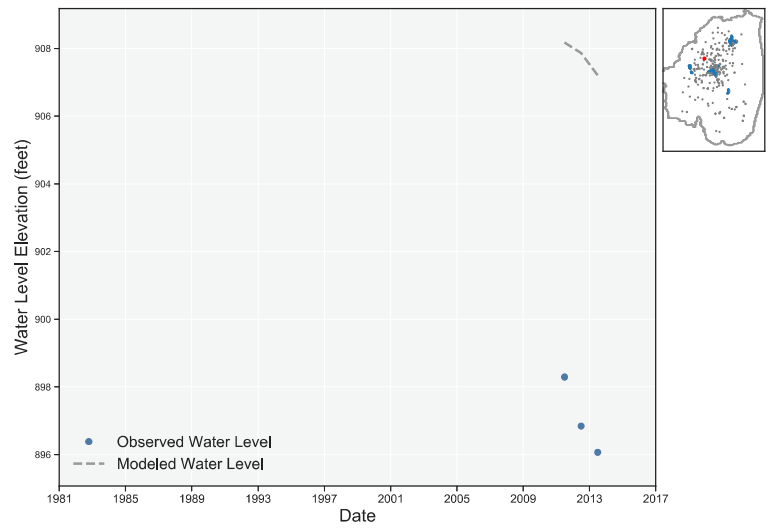
Well 435278 - Aq: QBAA Layers: 4 - 4



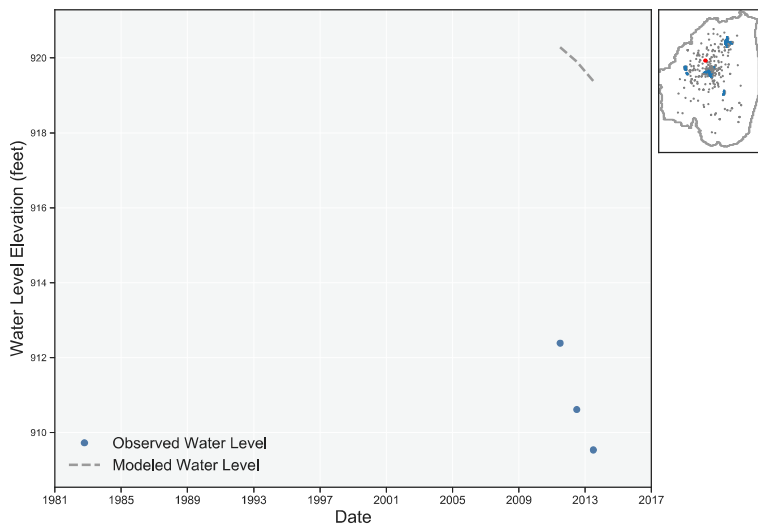
Well 435308 - Aq: QBAA Layers: 4 - 4



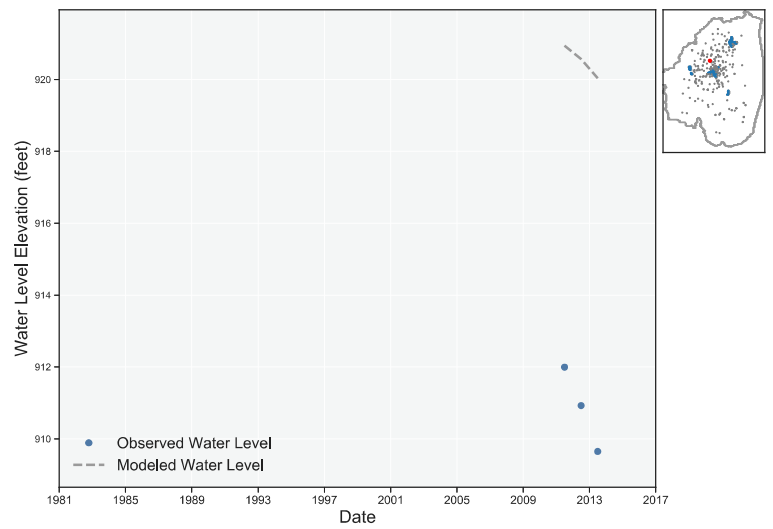
Well 126870 - Aq: QBAA Layers: 4 - 4



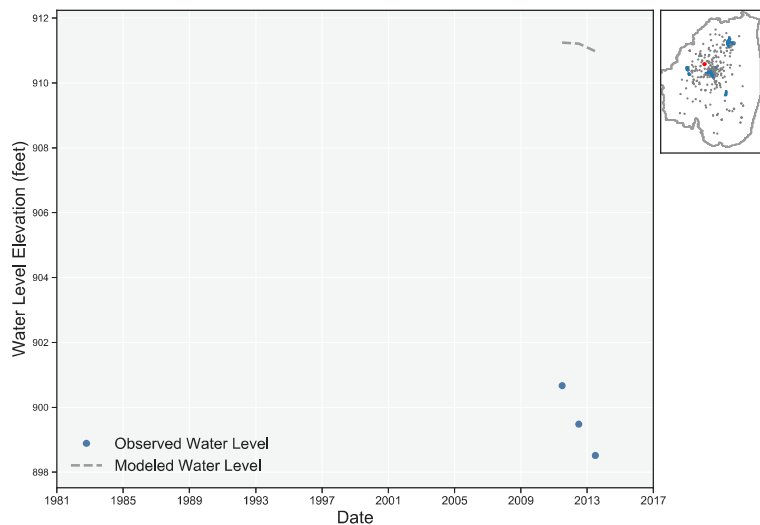
Well 465951 - Aq: QBAA Layers: 4 - 4



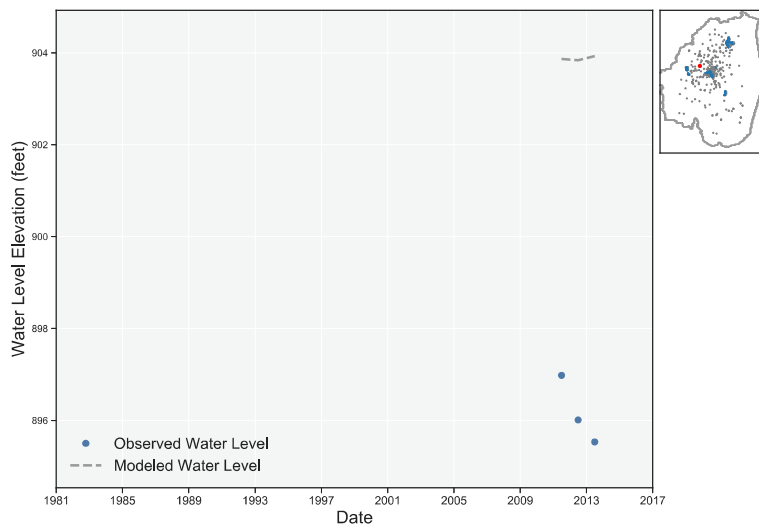
Well 496784 - Aq: QBAA Layers: 4 - 4



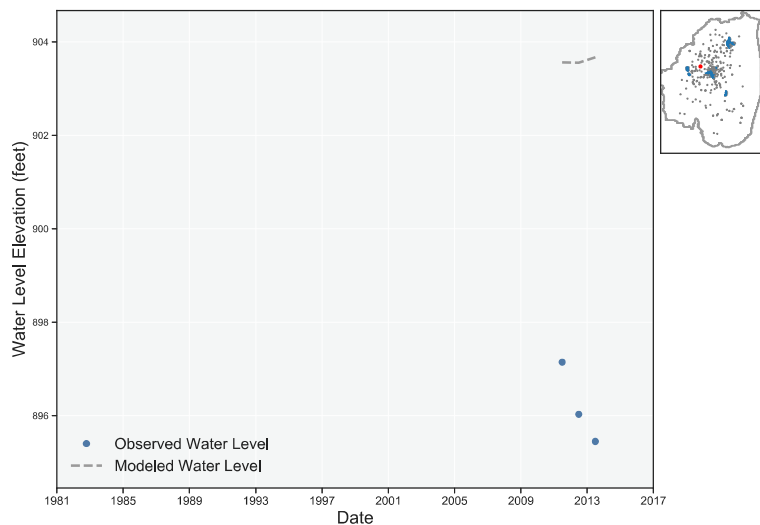
Well 112442 - Aq: QBAA Layers: 4 - 4



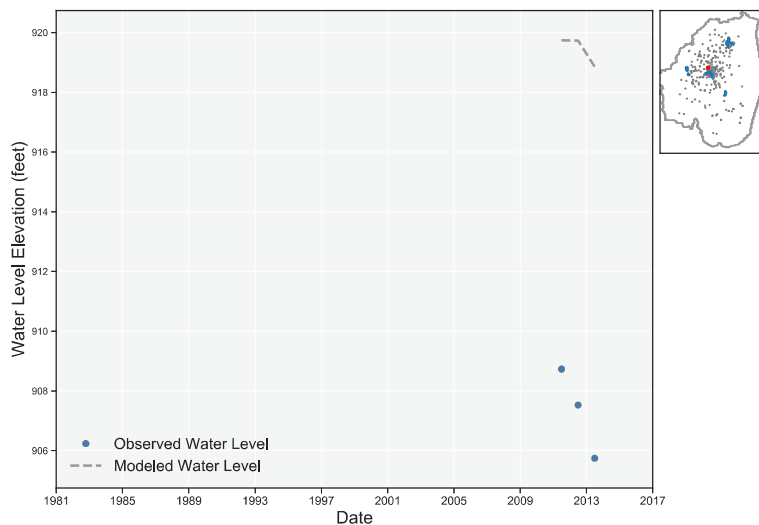
Well 430506 - Aq: QBAA Layers: 4 - 4



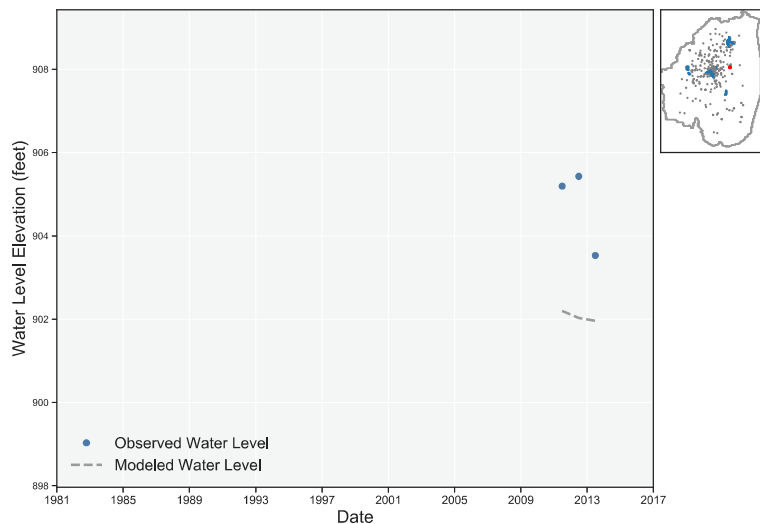
Well 130810 - Aq: QBAA Layers: 4 - 4



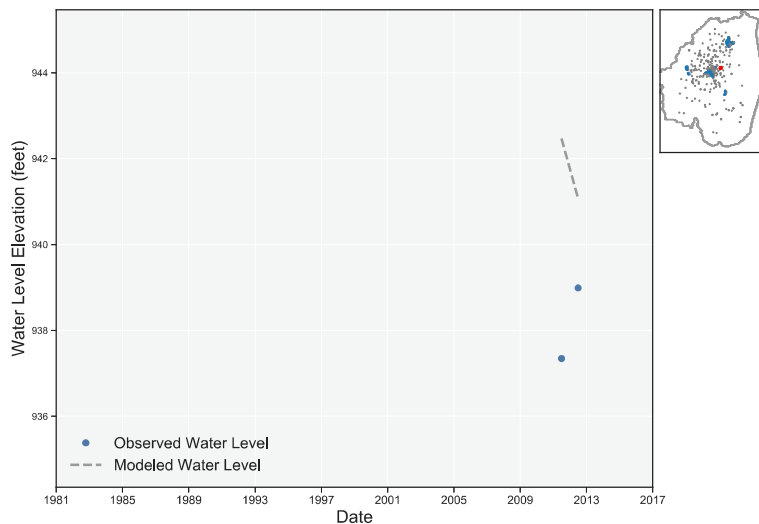
Well 141728 - Aq: Q Layers: 4 - 4



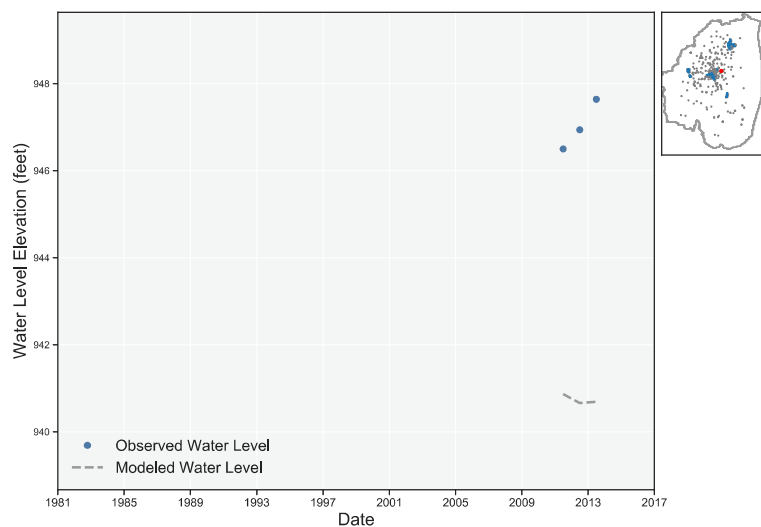
Well 153500 - Aq: QWTA Layers: 4 - 4



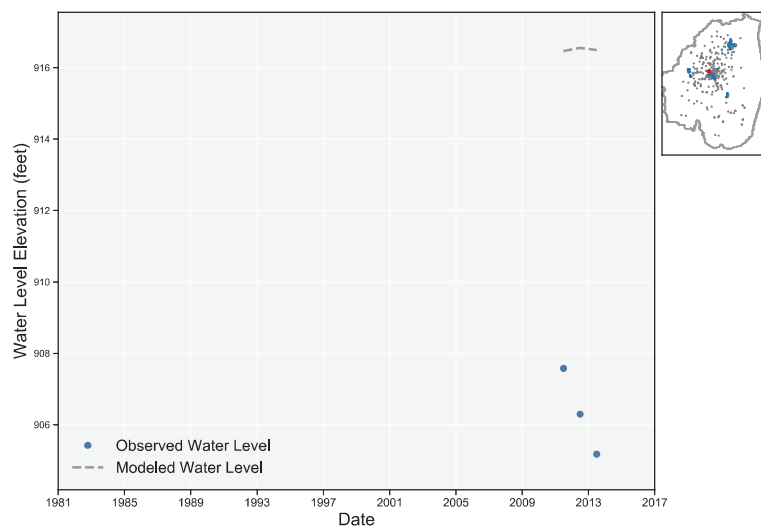
Well 418799 - Aq: QBAA Layers: 4 - 4



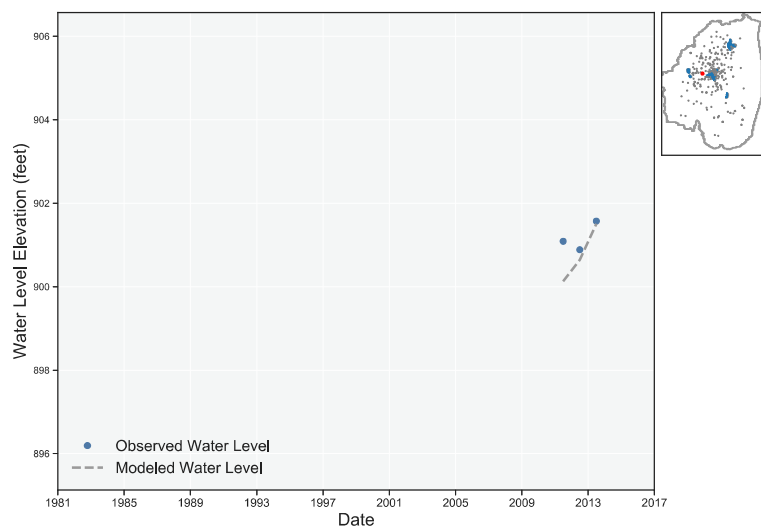
Well 404277 - Aq: QWTA Layers: 4 - 4



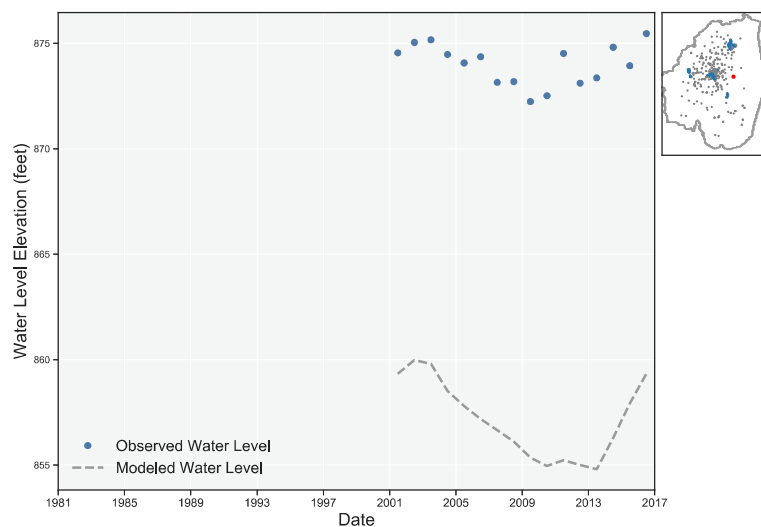
Well 186956 - Aq: Q Layers: 4 - 4



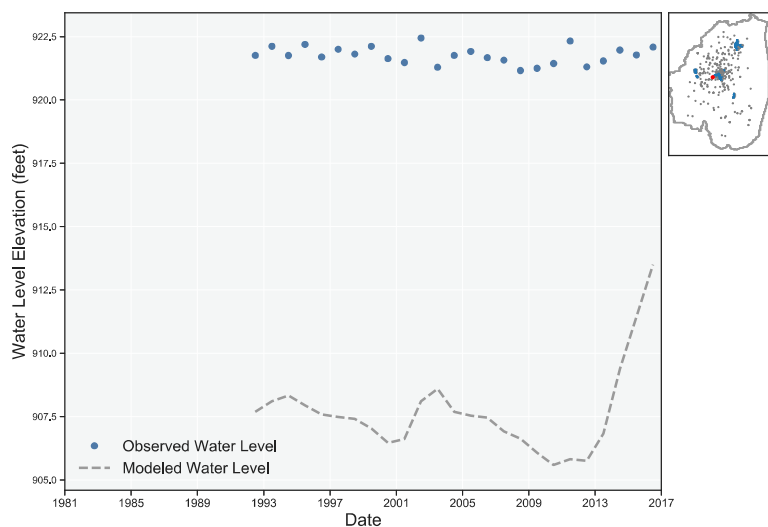
Well 173943 - Aq: QBAA Layers: 4 - 4



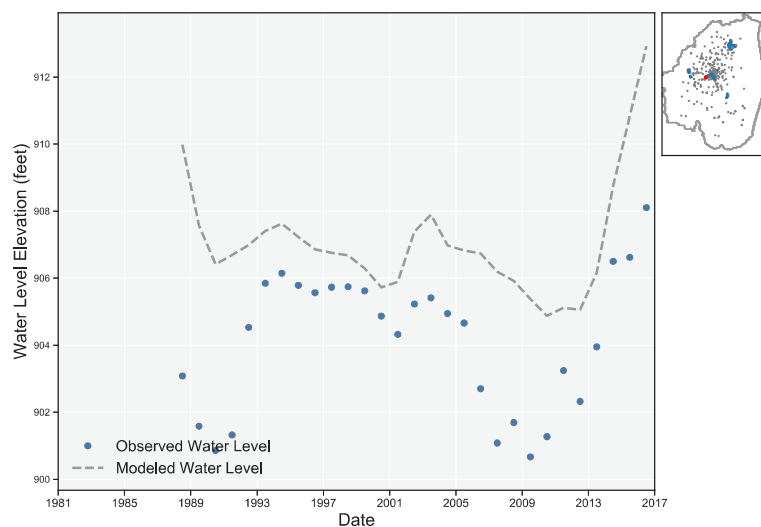
Well 82048 - Aq: QBAA Layers: 4 - 4



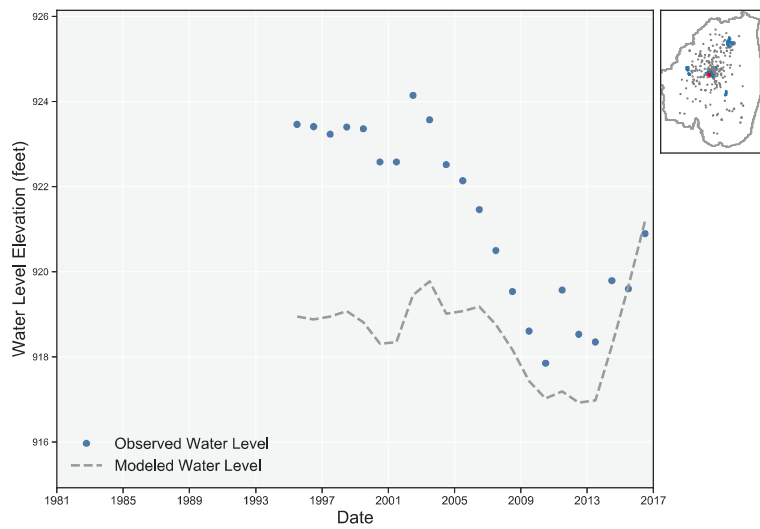
Well 62039 - Aq: QWTA Layers: 4 - 4



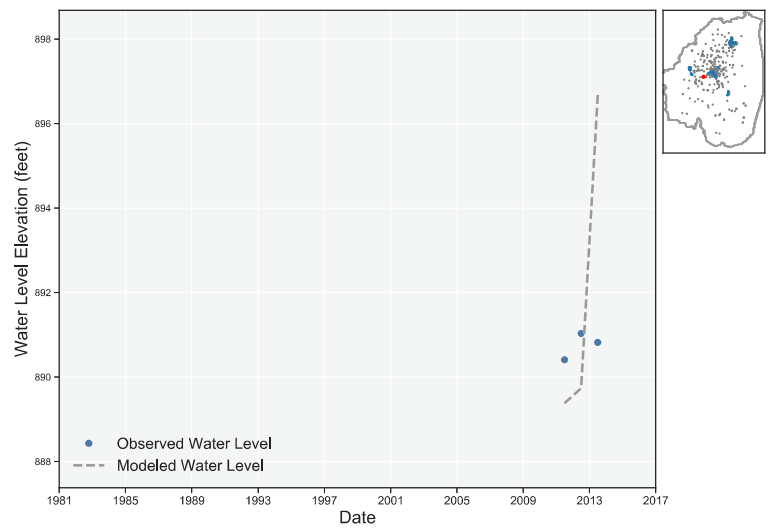
Well 62033 - Aq: QBAA Layers: 4 - 4



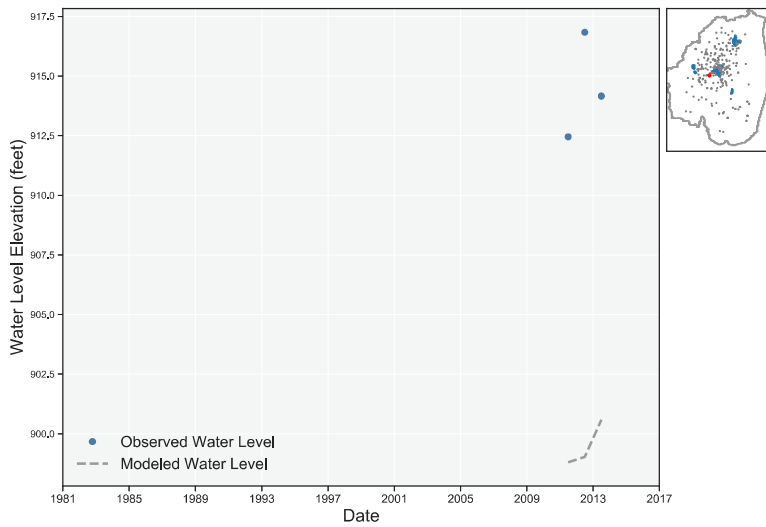
Well 62045 - Aq: QBAA Layers: 4 - 4



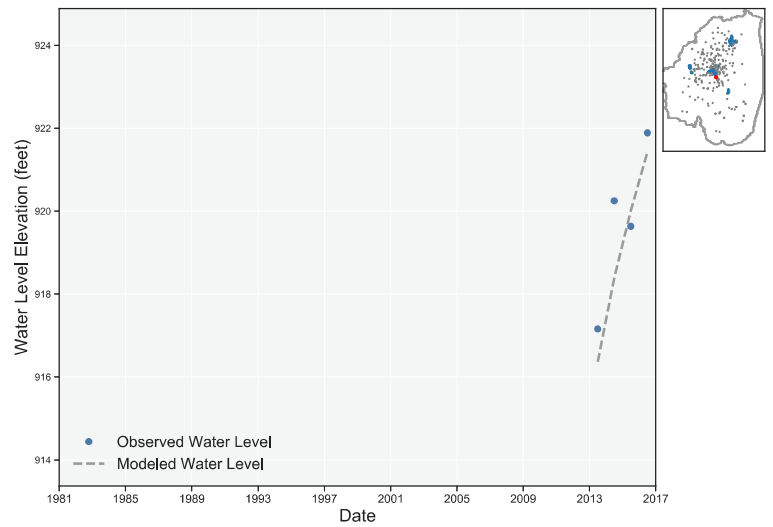
Well 151732 - Aq: Q Layers: 4 - 4



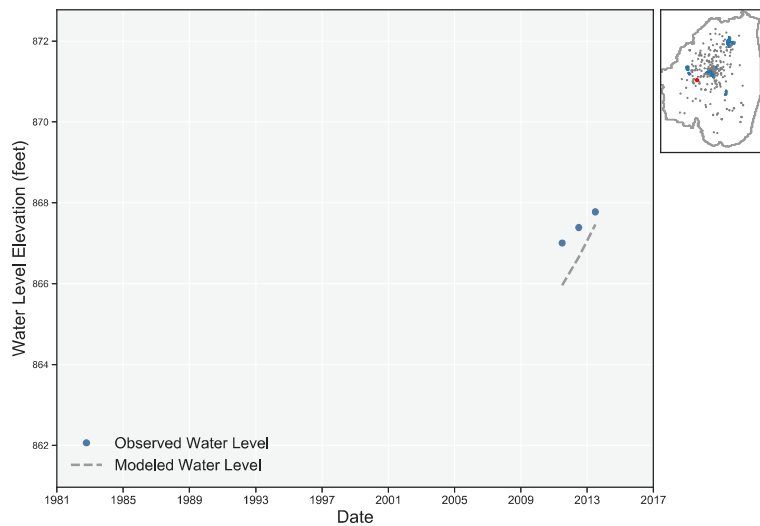
Well 401598 - Aq: QBUA Layers: 4 - 4



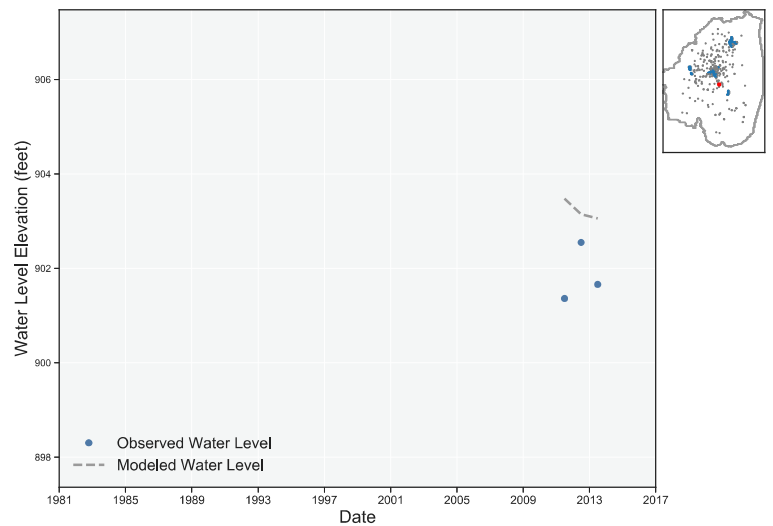
Well 82057 - Aq: QWTA Layers: 4 - 4



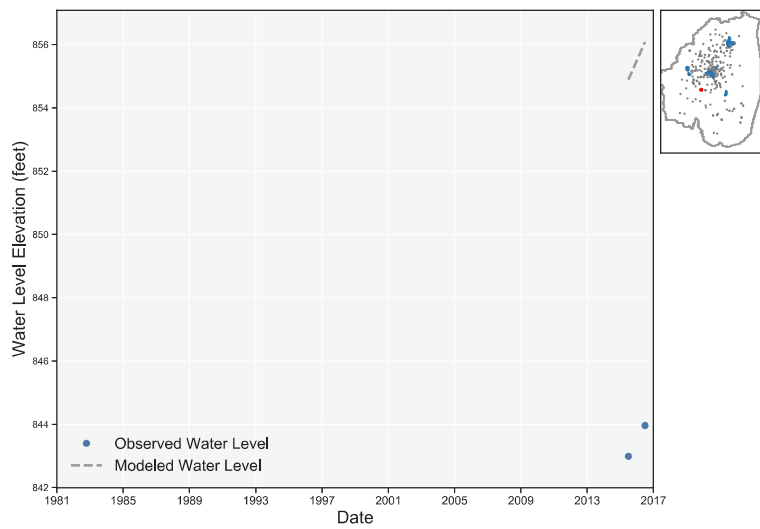
Well 107006 - Aq: QBAA Layers: 4 - 4



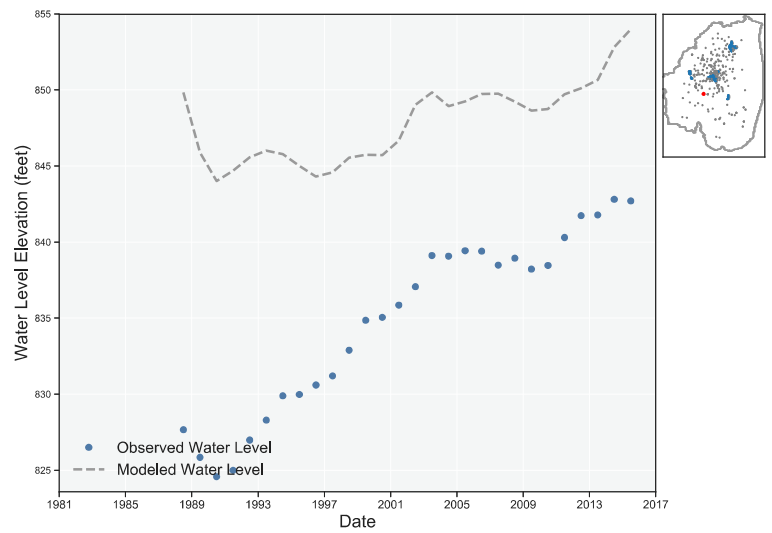
Well 436676 - Aq: QBAA Layers: 4 - 4



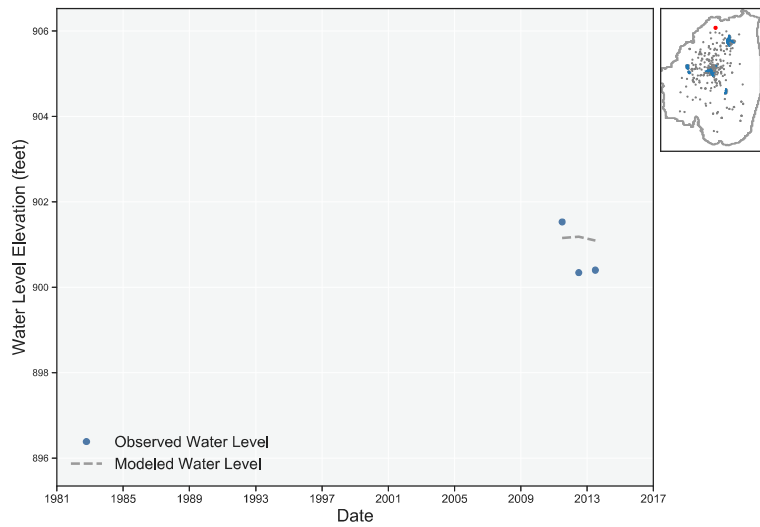
Well 62055 - Aq: QWTA Layers: 4 - 4



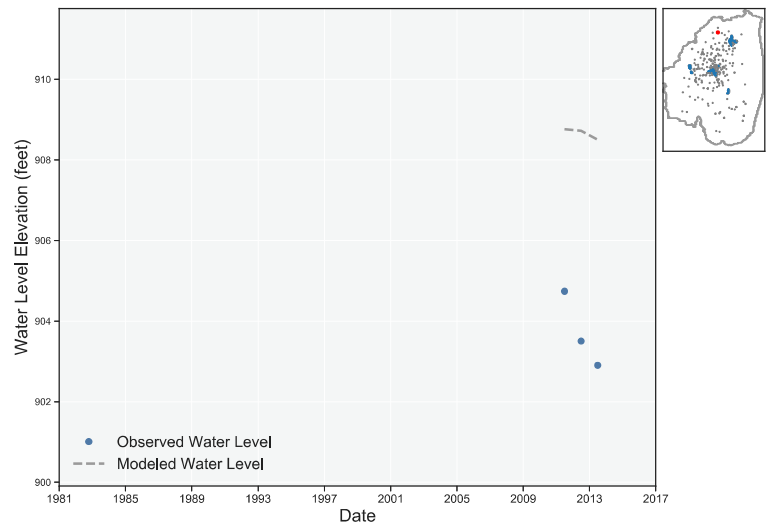
Well 62008 - Aq: QBAA Layers: 4 - 4



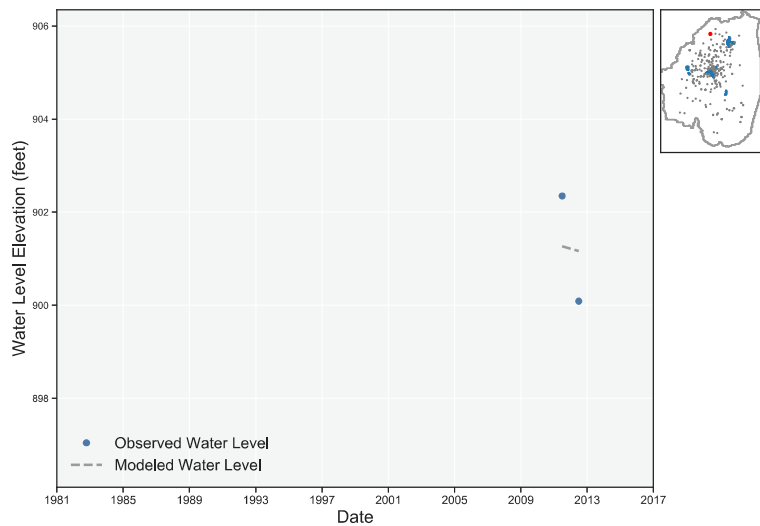
Well 178258 - Aq: QBAA Layers: 5 - 5



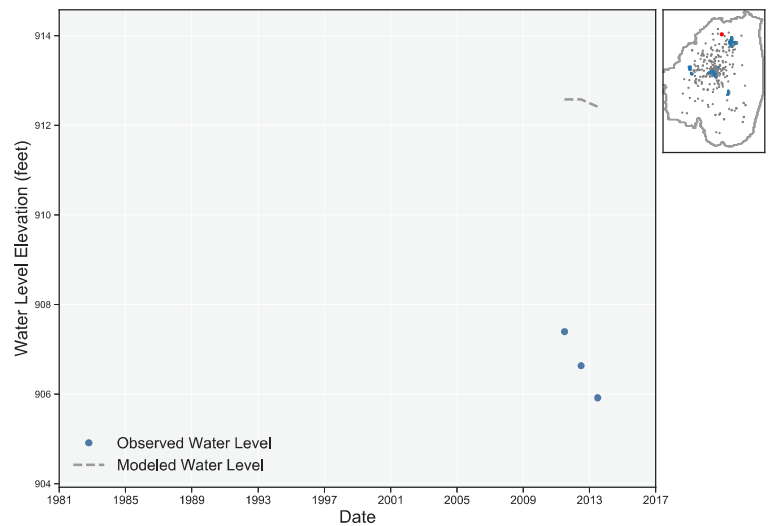
Well 428561 - Aq: QBAA Layers: 5 - 5



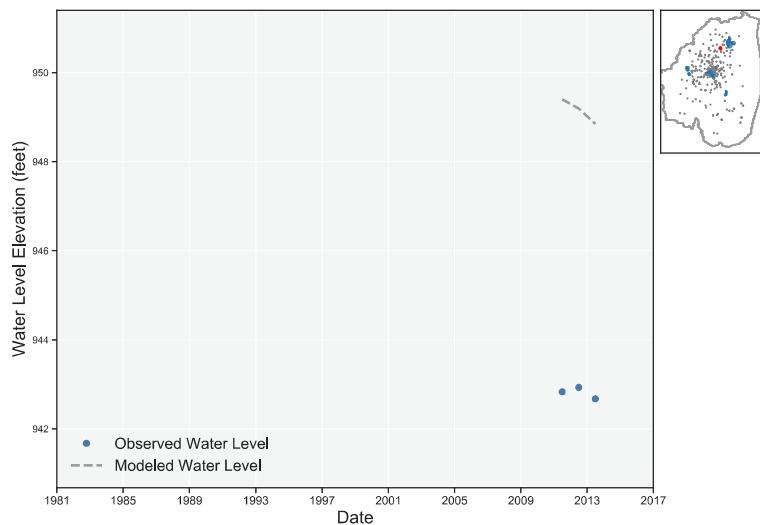
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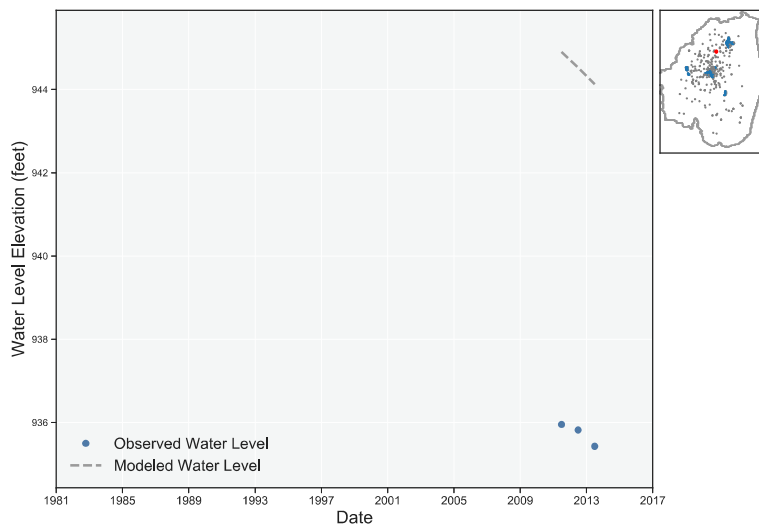
Well 420316 - Aq: QBAA Layers: 5 - 5



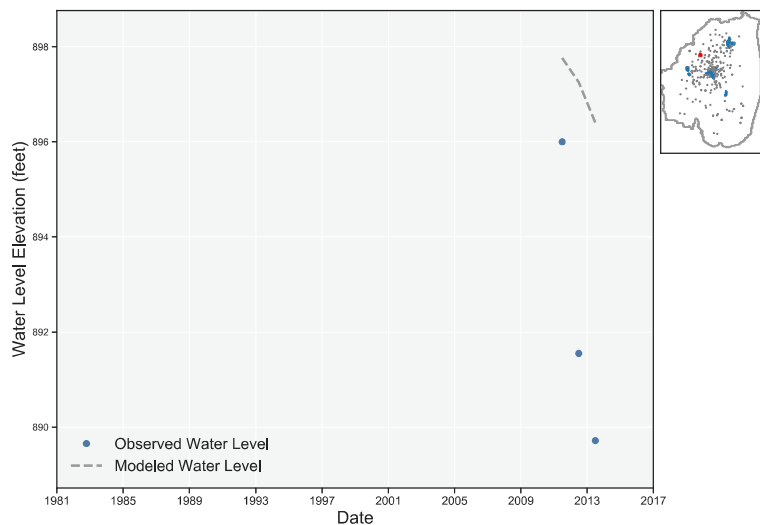
Well 112661 - Aq: QBAA Layers: 5 - 5



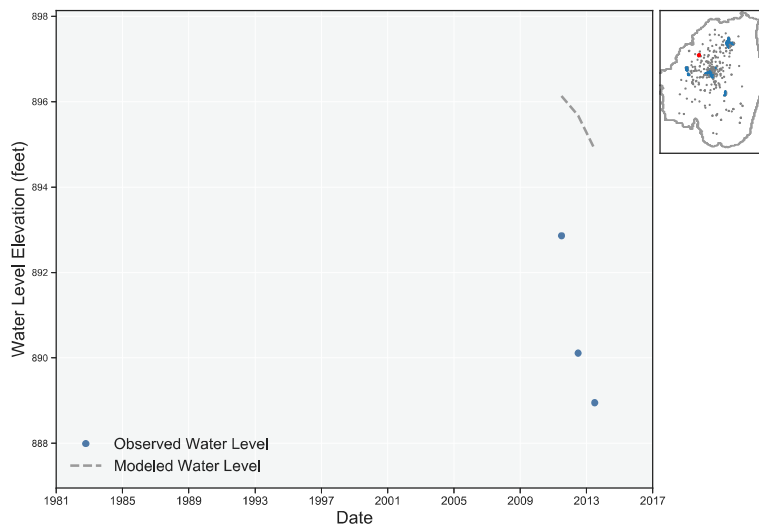
Well 485406 - Aq: OSTP Layers: 5 - 5



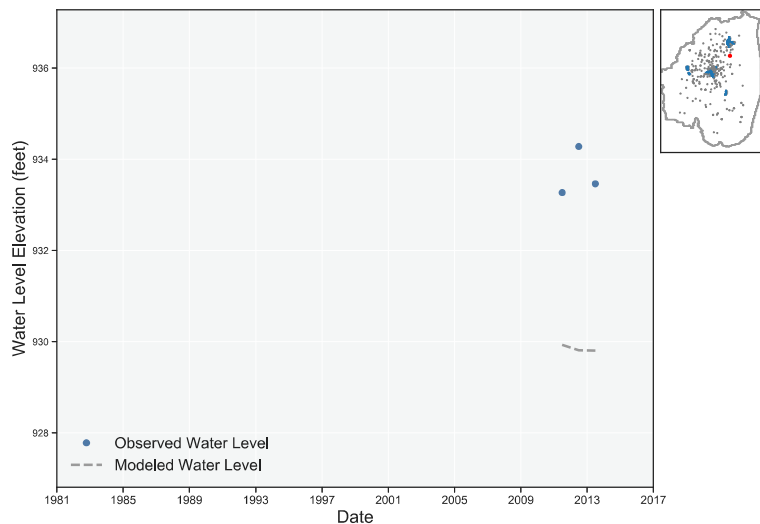
Well 439244 - Aq: OSTP Layers: 5 - 5



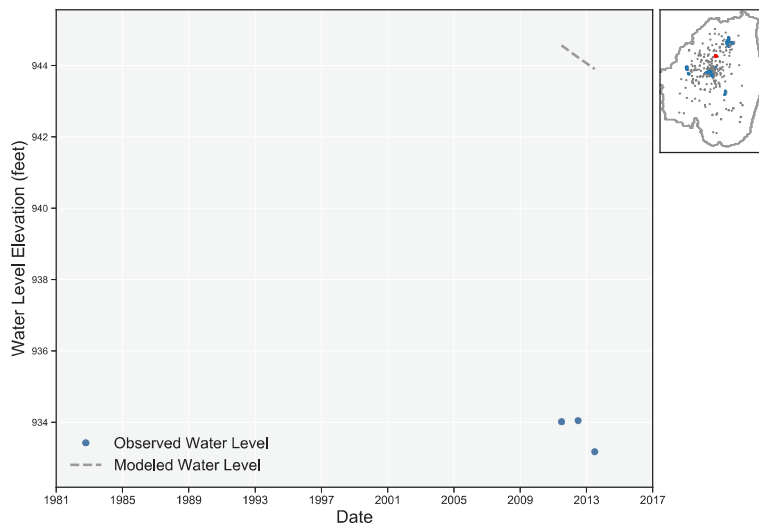
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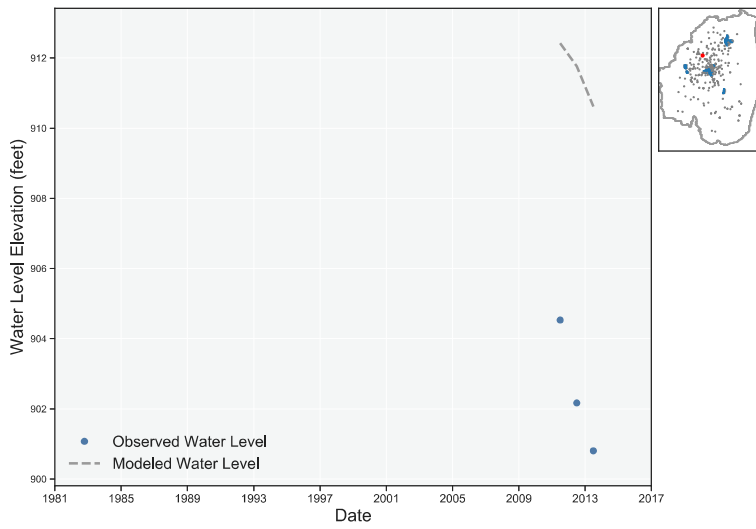
Well 411608 - Aq: QBAA Layers: 5 - 5



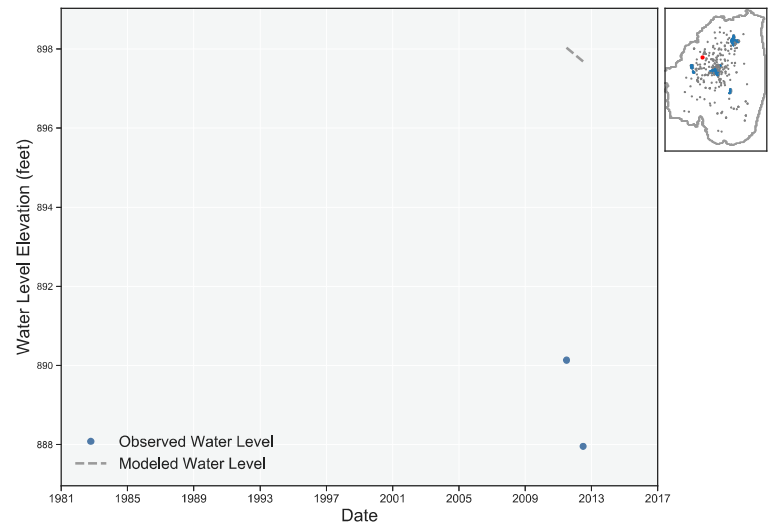
Well 410174 - Aq: OSTP Layers: 5 - 5



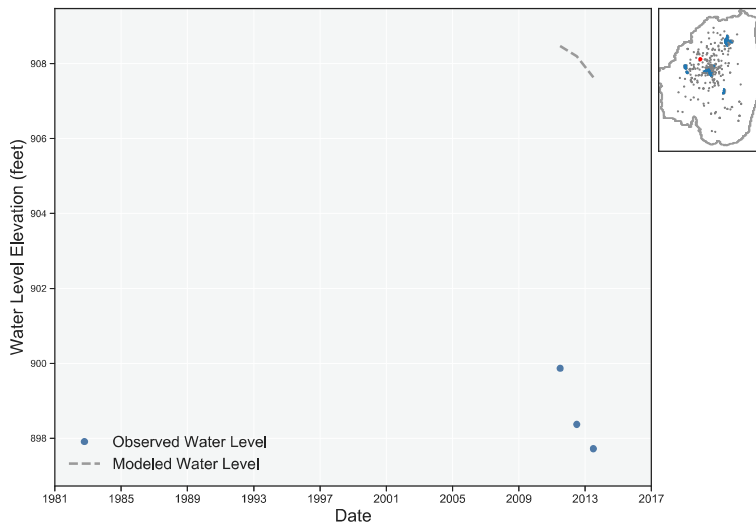
Well 162295 - Aq: OSTP Layers: 5 - 5



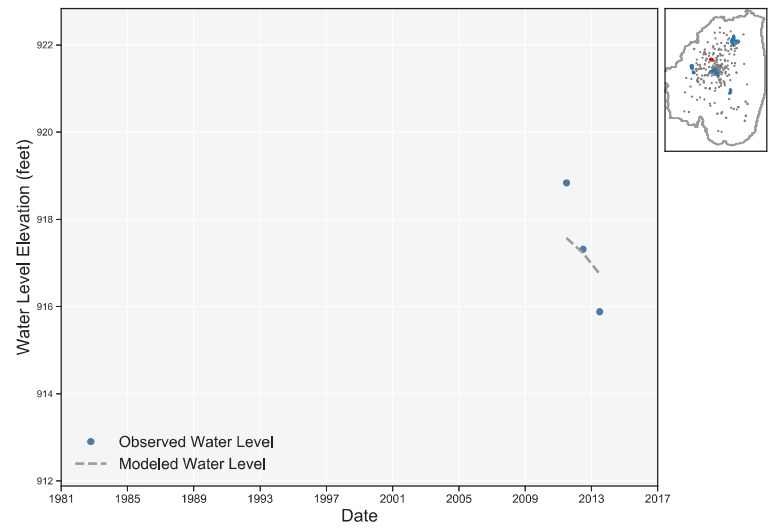
Well 164776 - Aq: OSTP Layers: 5 - 5



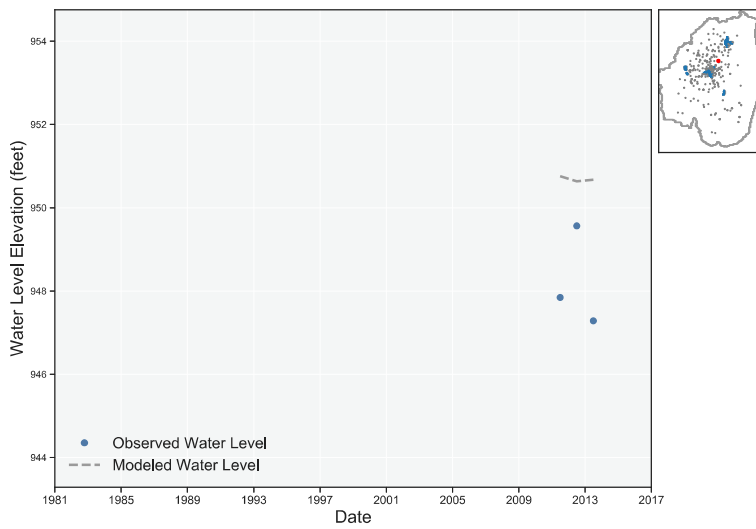
Well 755580 - Aq: OSTP Layers: 5 - 5



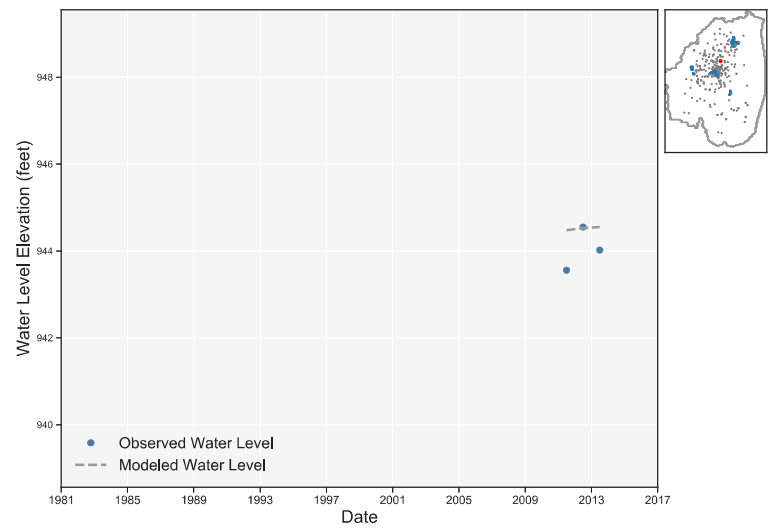
Well 653756 - Aq: QBAA Layers: 5 - 5



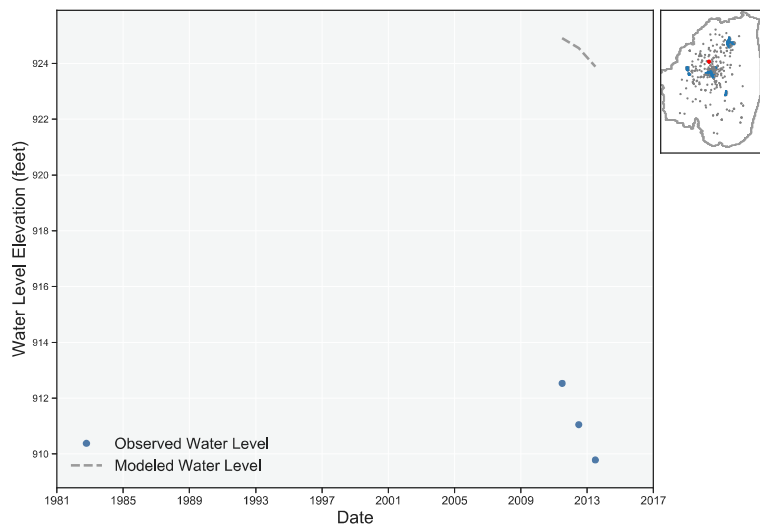
Well 429100 - Aq: OSTP Layers: 5 - 5



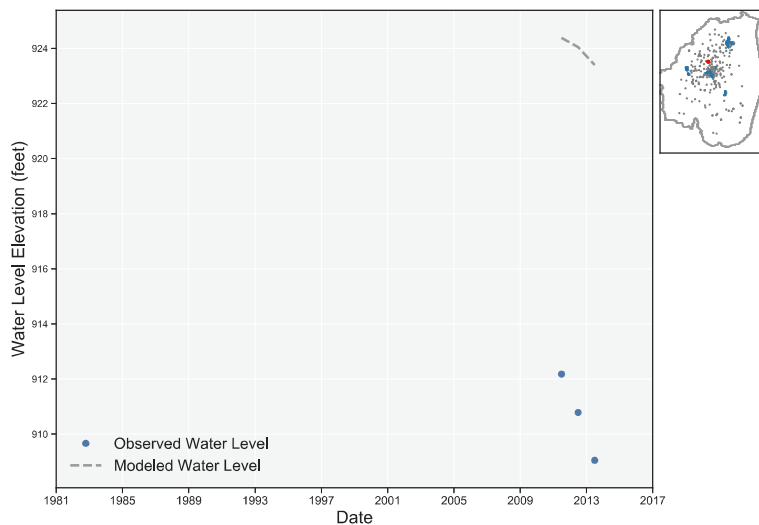
Well 138268 - Aq: OSTP Layers: 5 - 5



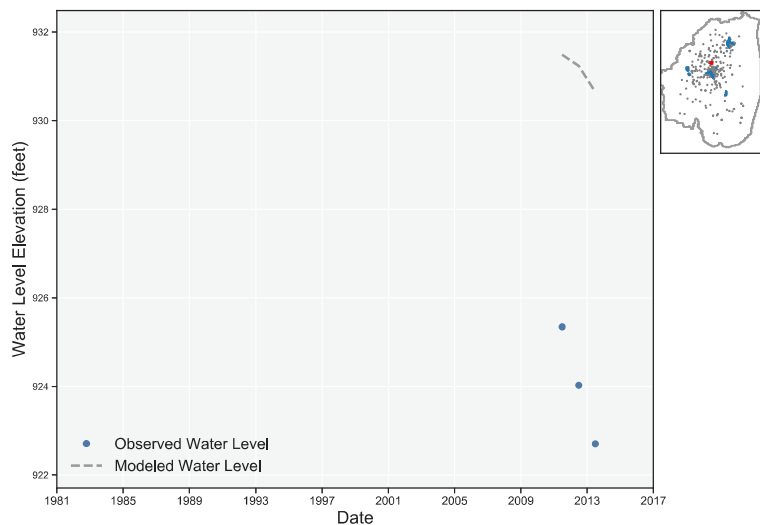
Well 469841 - Aq: QBAA Layers: 5 - 5



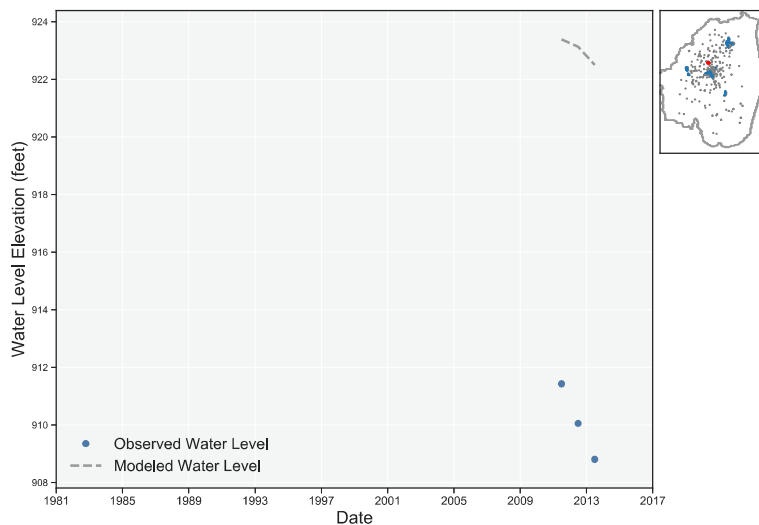
Well 163708 - Aq: QBAA Layers: 5 - 5



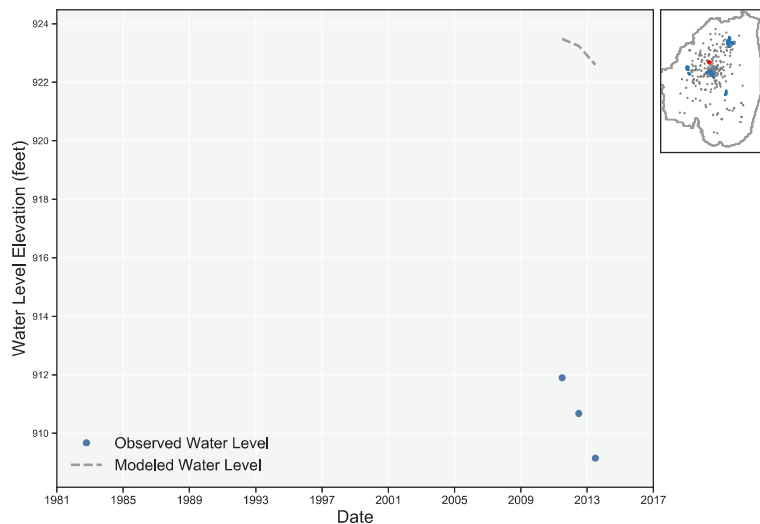
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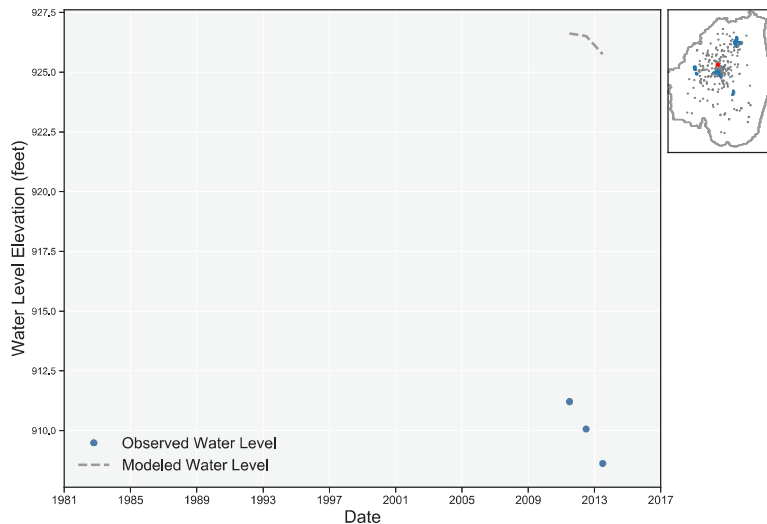
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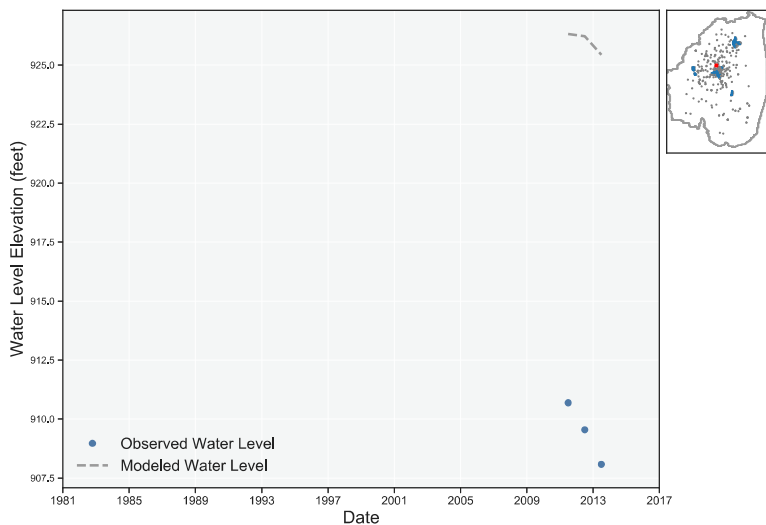
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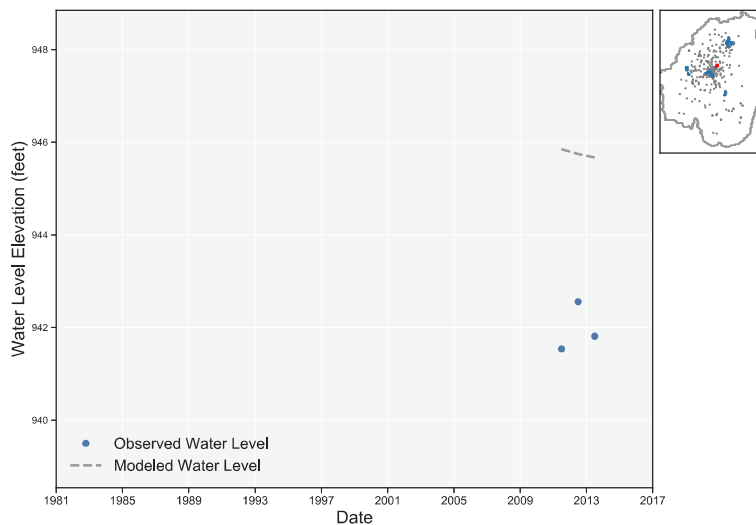
Well 432954 - Aq: QBAA Layers: 5 - 5



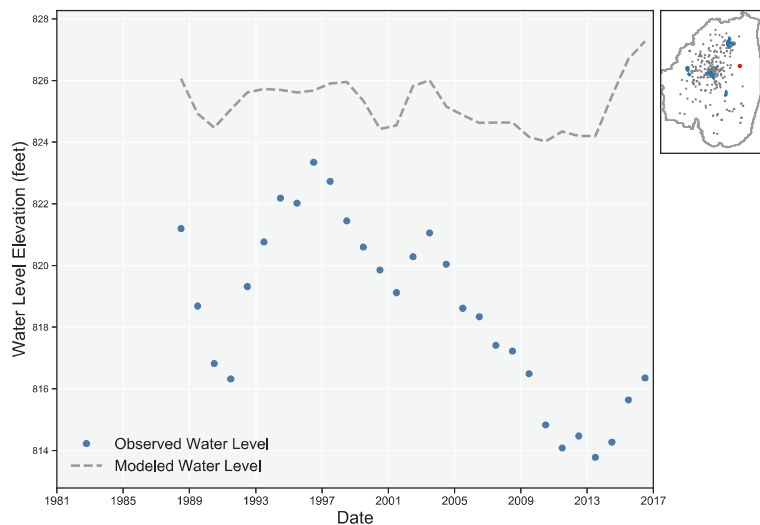
Well 470188 - Aq: QBUA Layers: 5 - 5



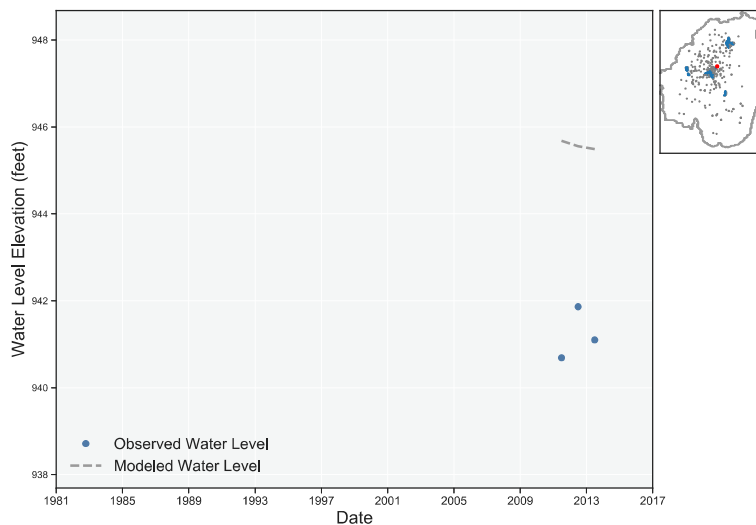
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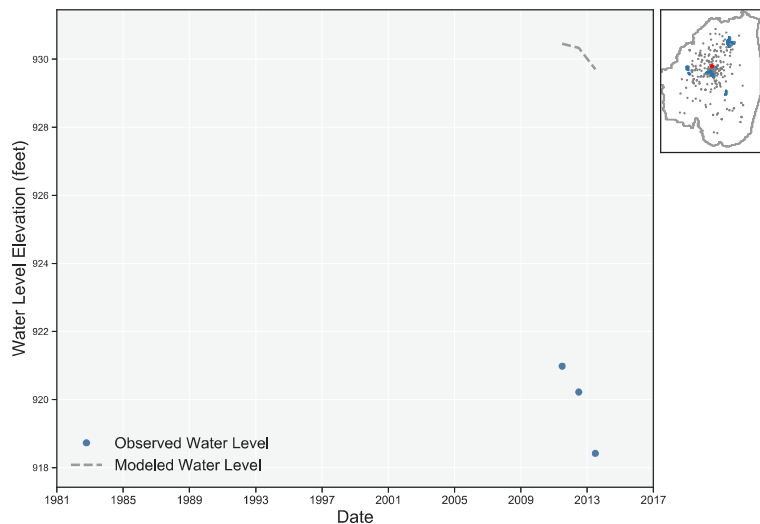
Well 82024 - Aq: QBAA Layers: 5 - 5



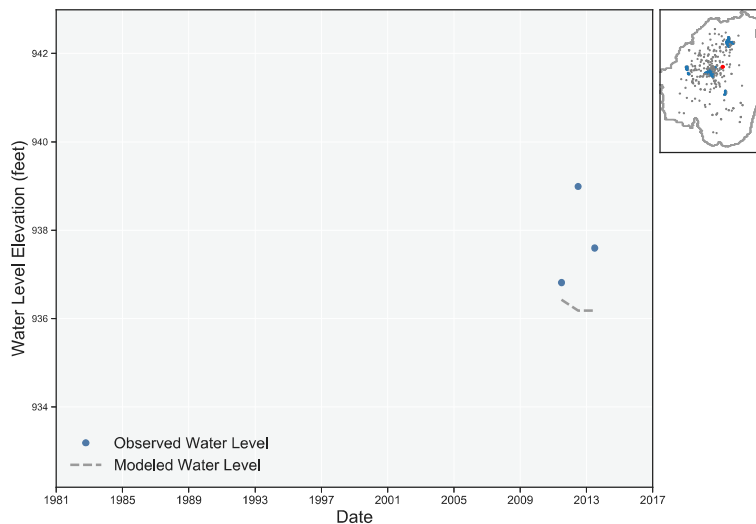
Well 407054 - Aq: OSTP Layers: 5 - 5



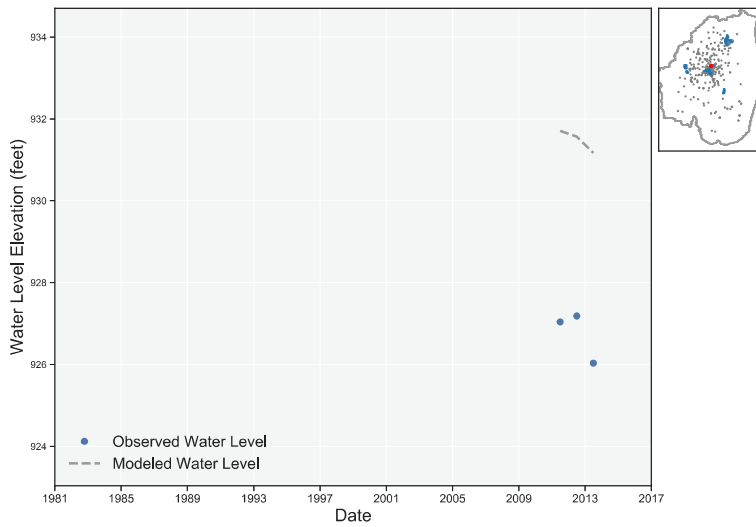
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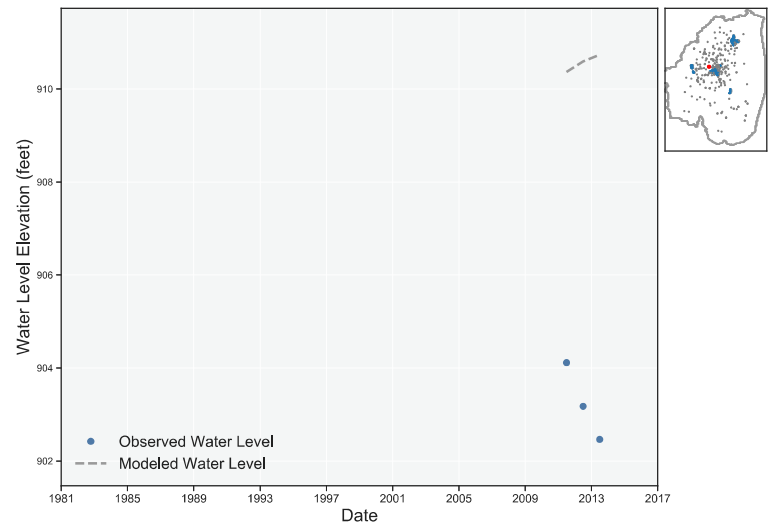
Well 437320 - Aq: OPDC Layers: 5 - 5



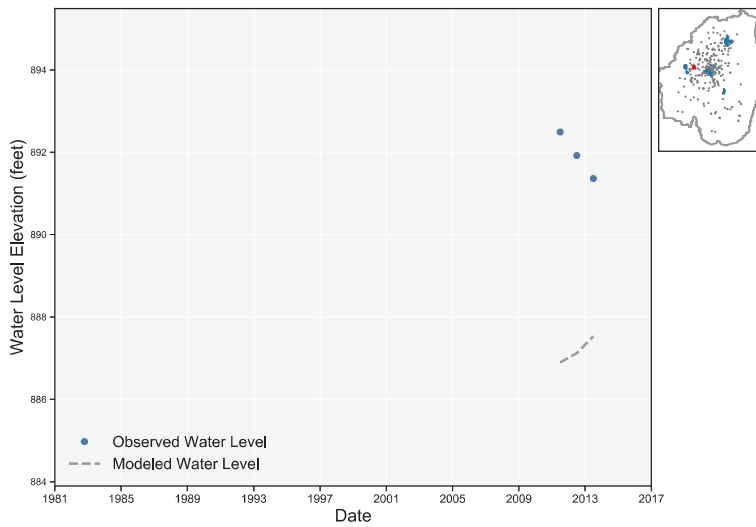
Well 176028 - Aq: OSTP Layers: 5 - 5



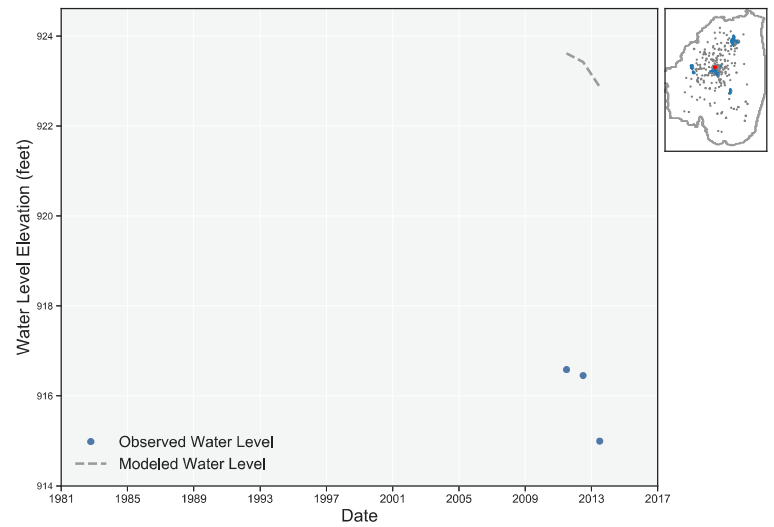
Well 410974 - Aq: OSTP Layers: 5 - 5



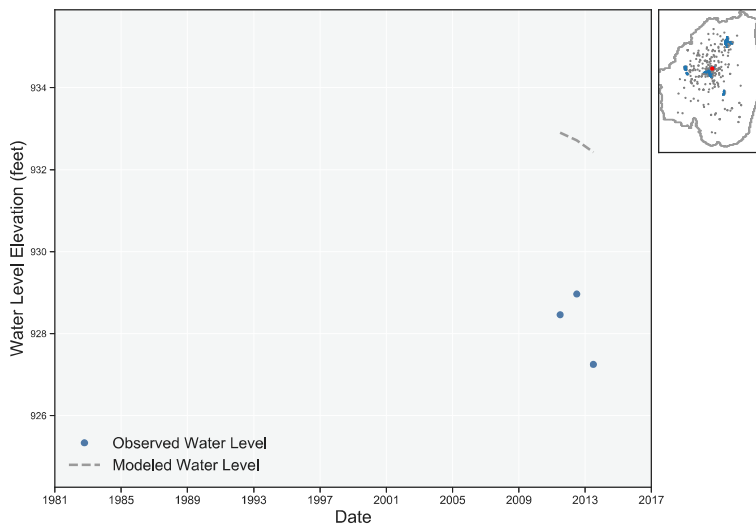
Well 205706 - Aq: OSTP Layers: 5 - 5



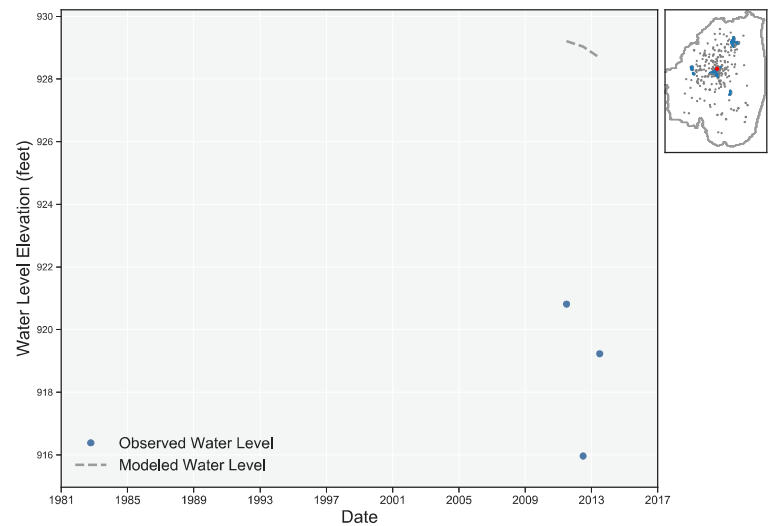
Well 130874 - Aq: OSTP Layers: 5 - 5



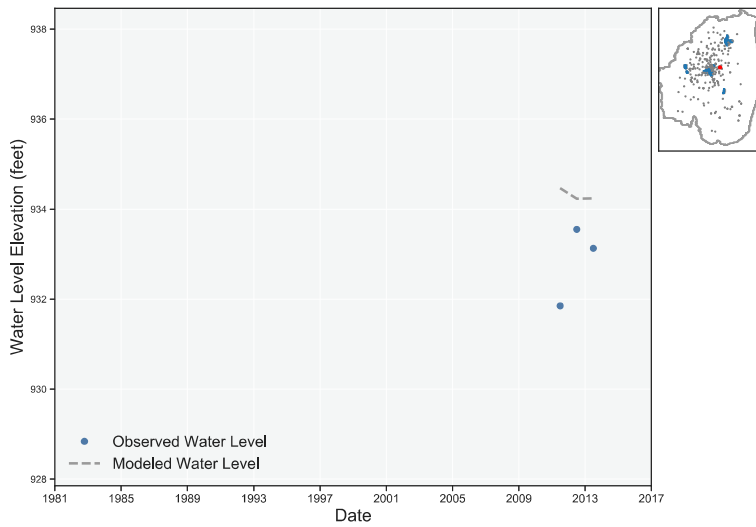
Well 208479 - Aq: QBAA Layers: 5 - 5



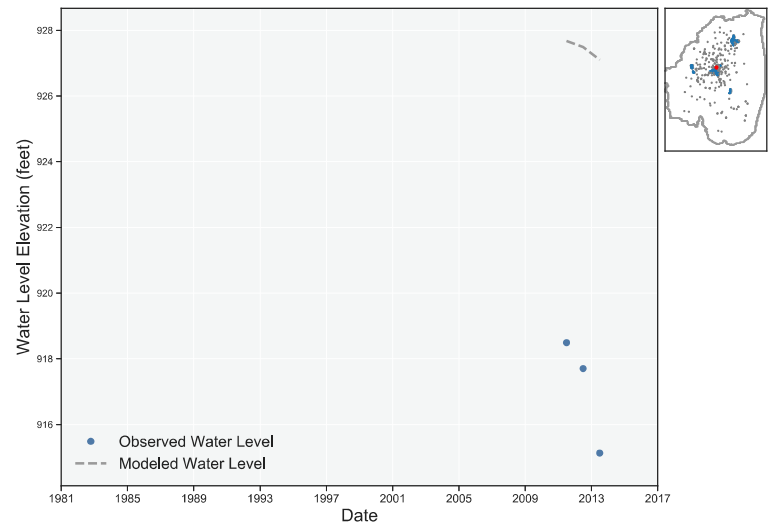
Well 178281 - Aq: OSTP Layers: 5 - 5



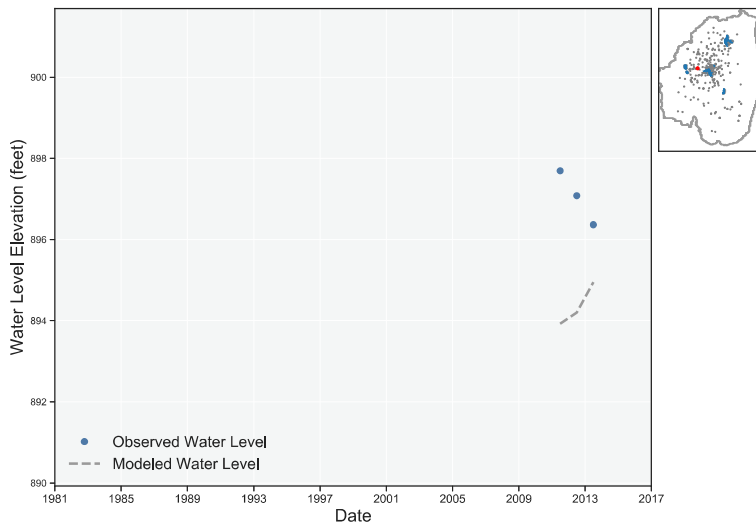
Well 163703 - Aq: OSTP Layers: 5 - 5



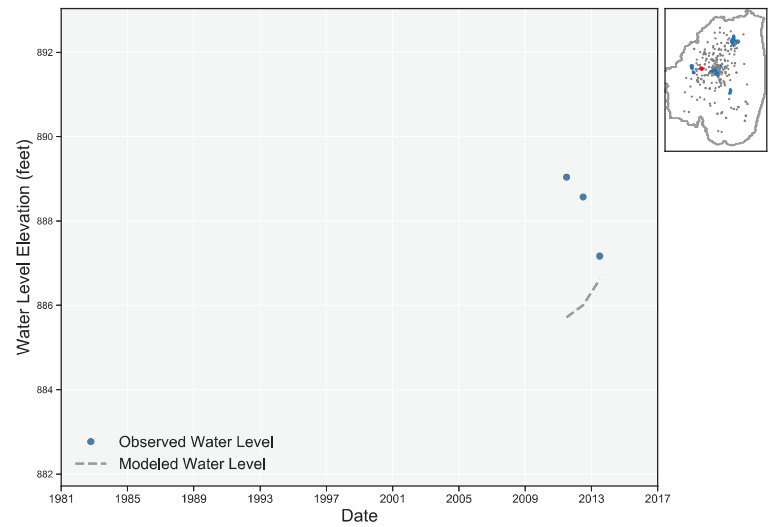
Well 130885 - Aq: OSTP Layers: 5 - 5



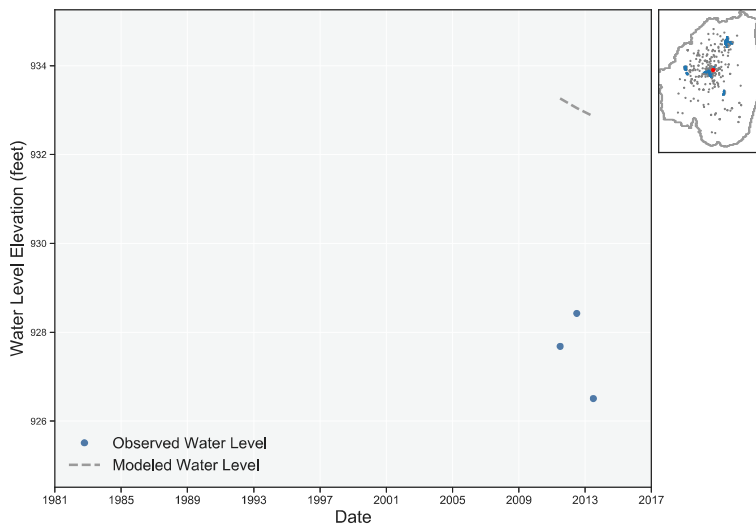
Well 154417 - Aq: OSTP Layers: 5 - 5



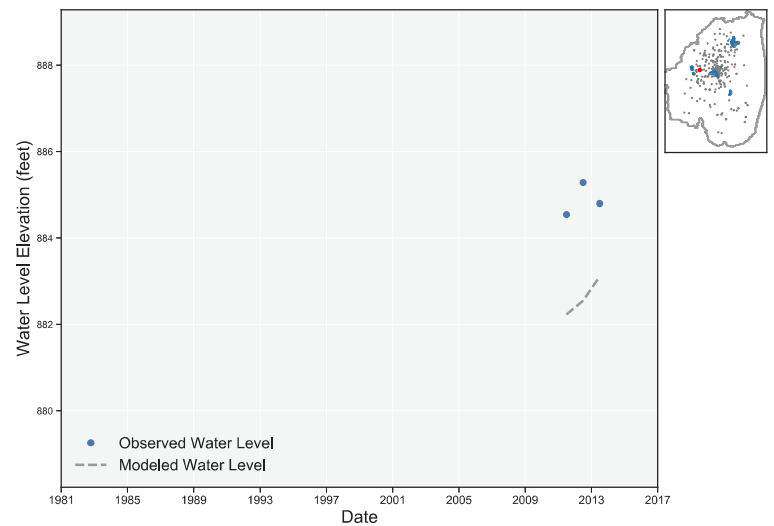
Well 205720 - Aq: OSTP Layers: 5 - 5



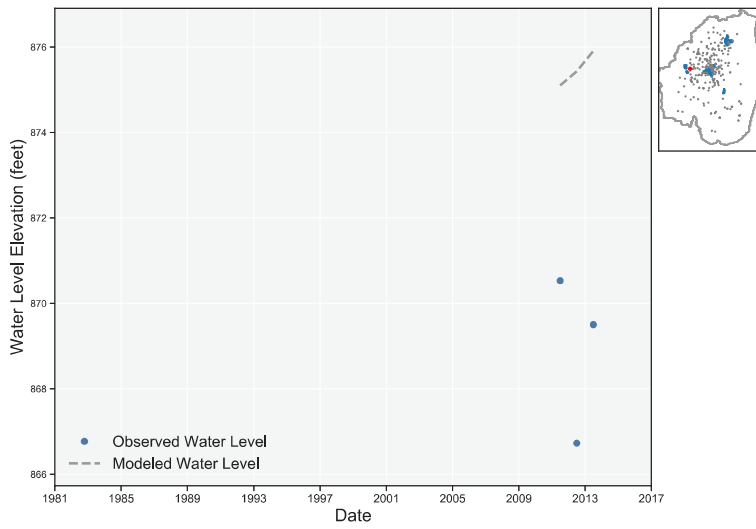
Well 112480 - Aq: OSTP Layers: 5 - 5



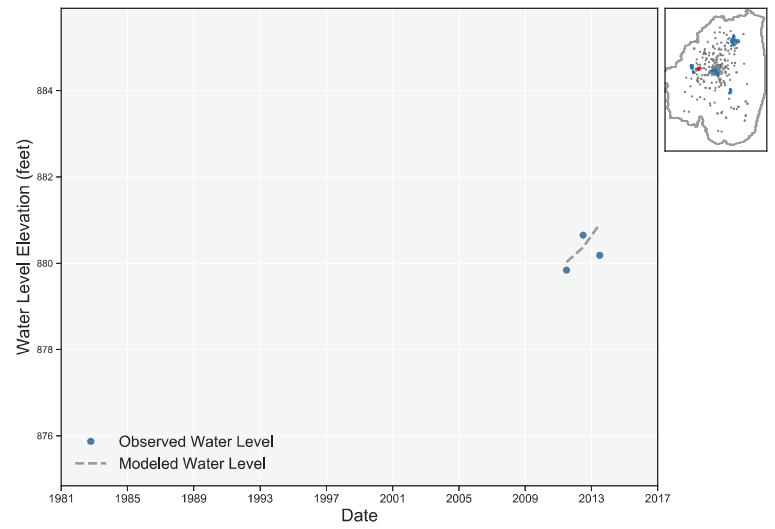
Well 430525 - Aq: OSTP Layers: 5 - 5



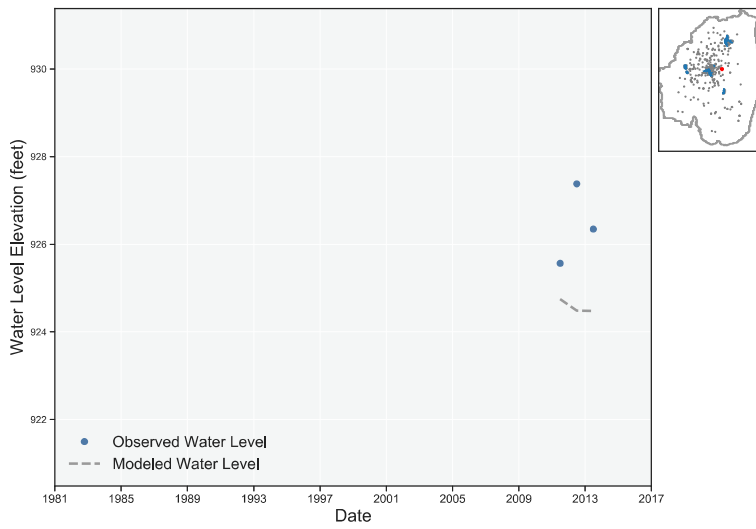
Well 405703 - Aq: OSTP Layers: 5 - 5



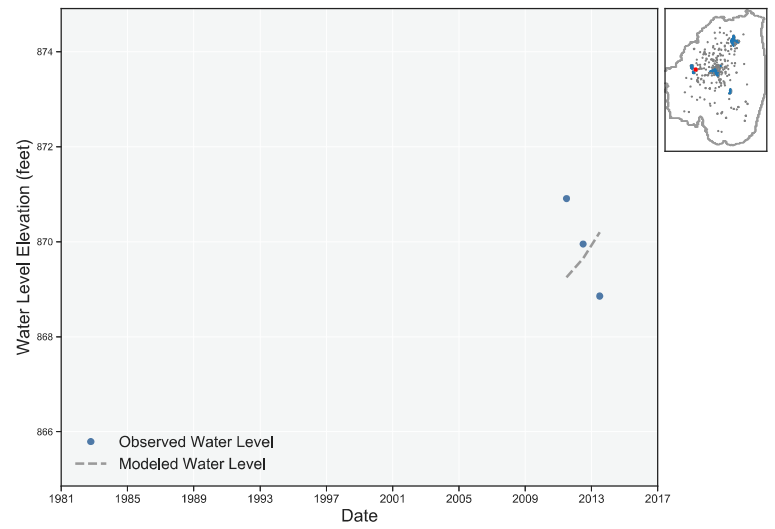
Well 504153 - Aq: OSTP Layers: 5 - 5



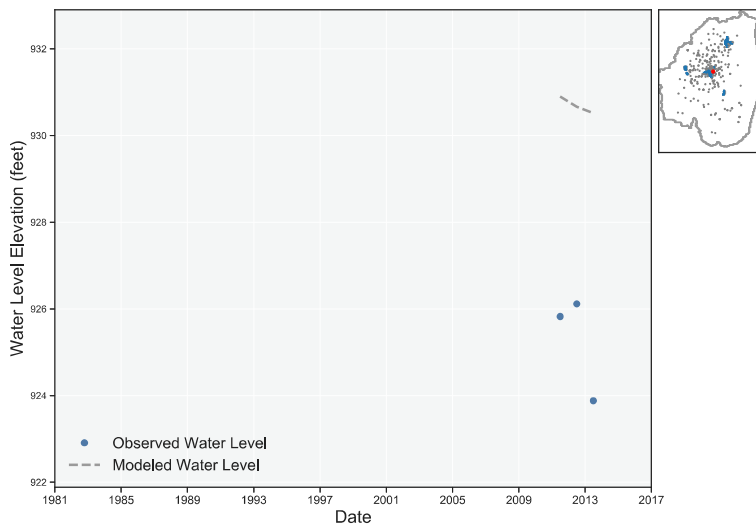
Well 136141 - Aq: OSTP Layers: 5 - 5



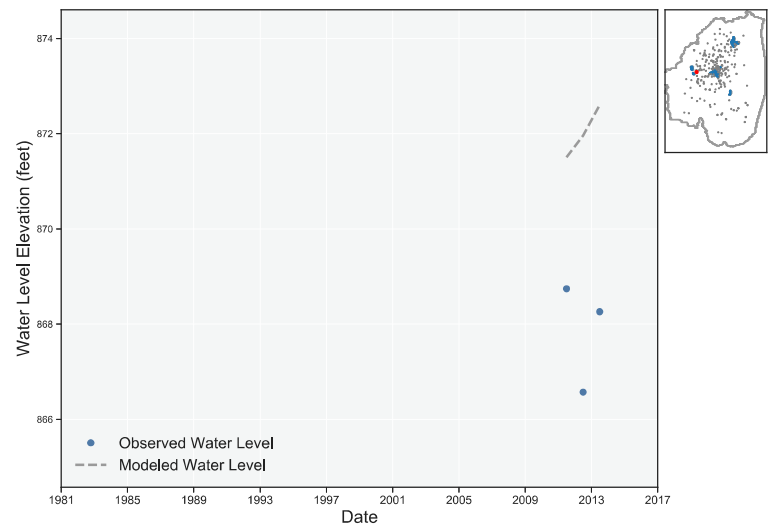
Well 436585 - Aq: QBAA Layers: 5 - 5



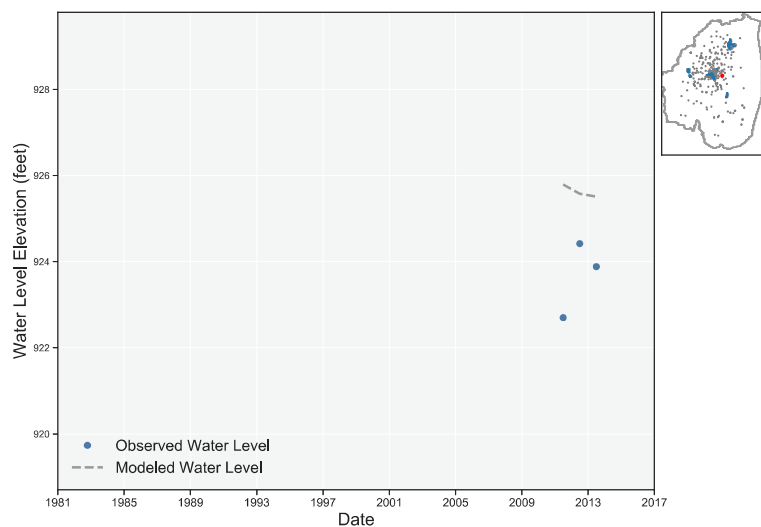
Well 112342 - Aq: OSTP Layers: 5 - 5



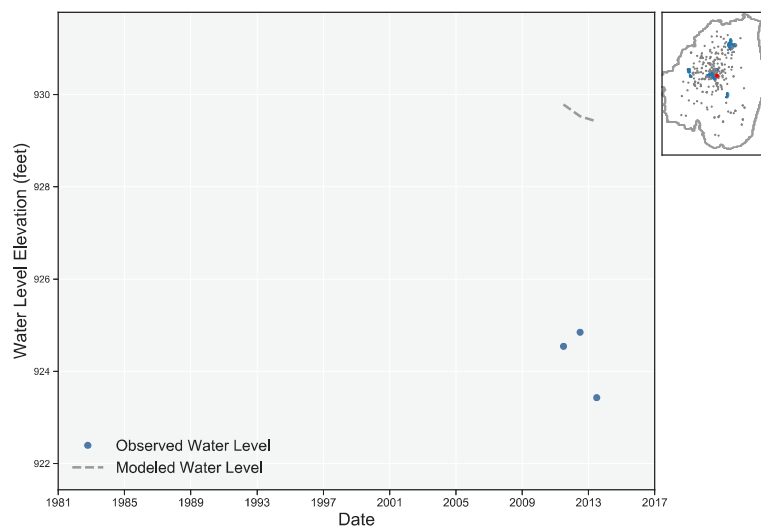
Well 404132 - Aq: QBAA Layers: 5 - 5



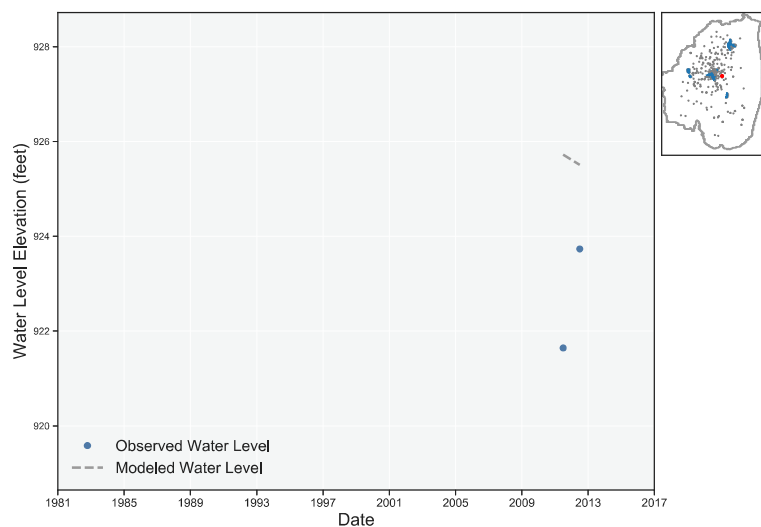
Well 505390 - Aq: OPDC Layers: 5 - 5



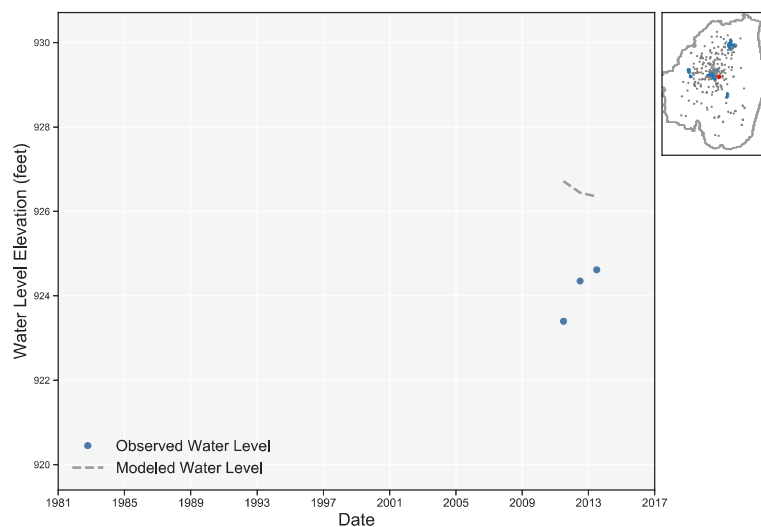
Well 153493 - Aq: OSTP Layers: 5 - 5



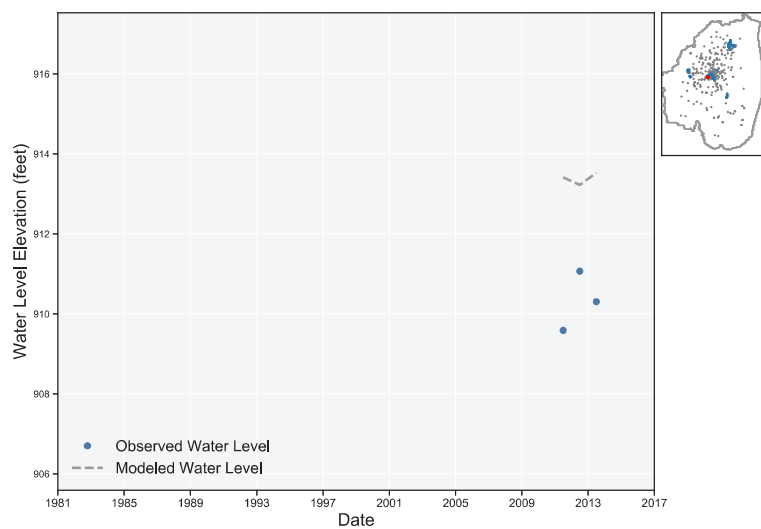
Well 413586 - Aq: OSTP Layers: 5 - 5



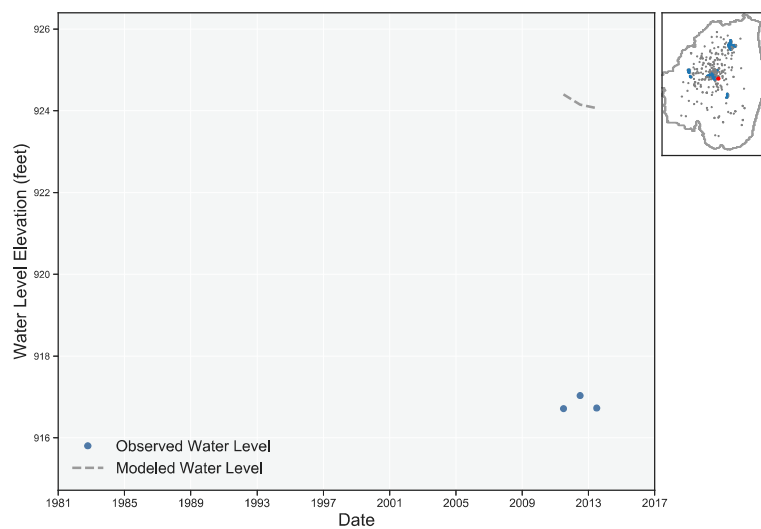
Well 182961 - Aq: OSTP Layers: 5 - 5



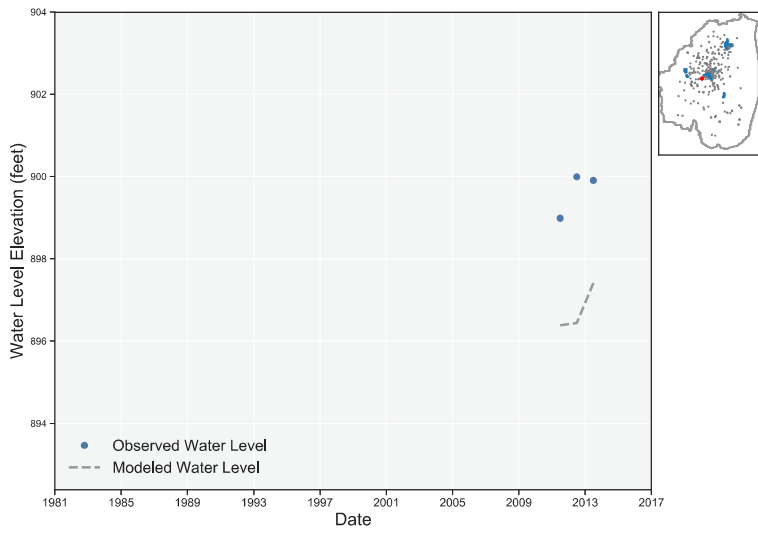
Well 504197 - Aq: OSTP Layers: 5 - 5



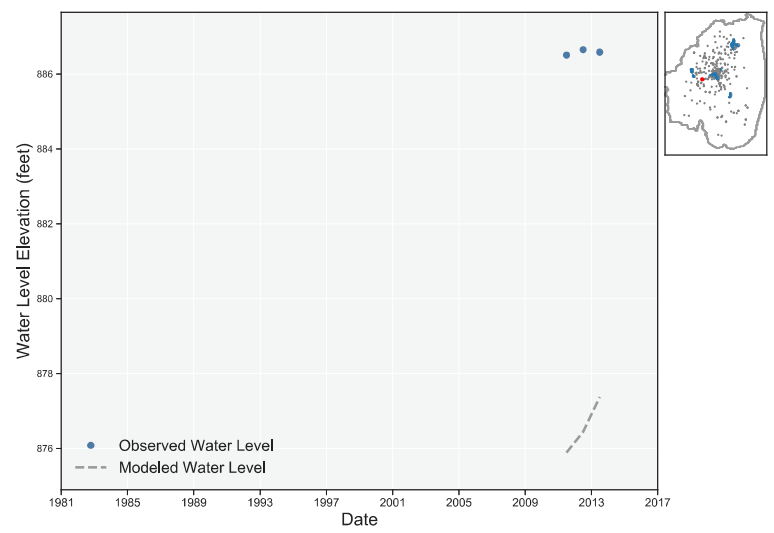
Well 136122 - Aq: OSTP Layers: 5 - 5



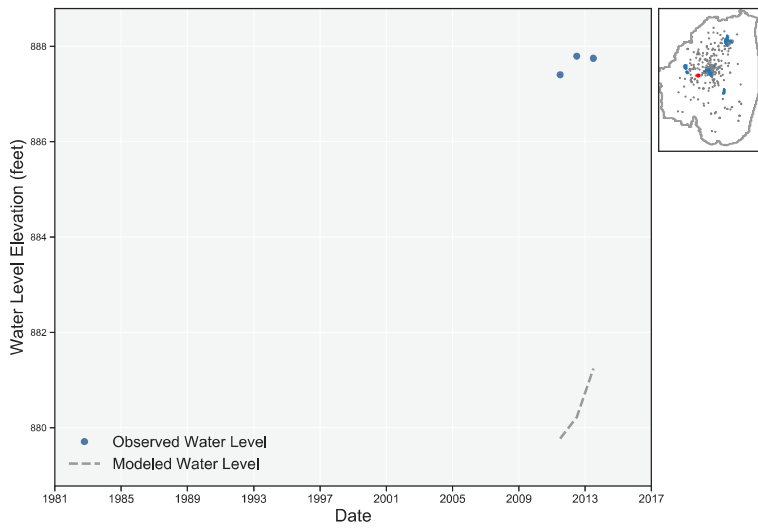
Well 112625 - Aq: OSTP Layers: 5 - 5



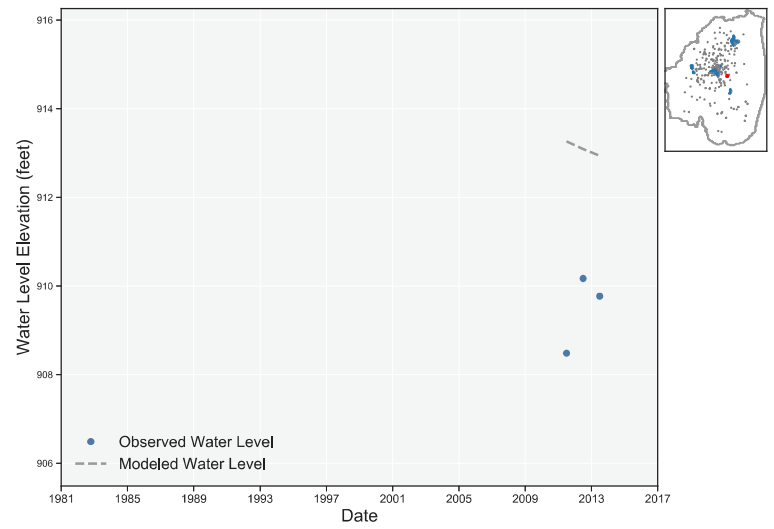
Well 145732 - Aq: OSTP Layers: 5 - 5



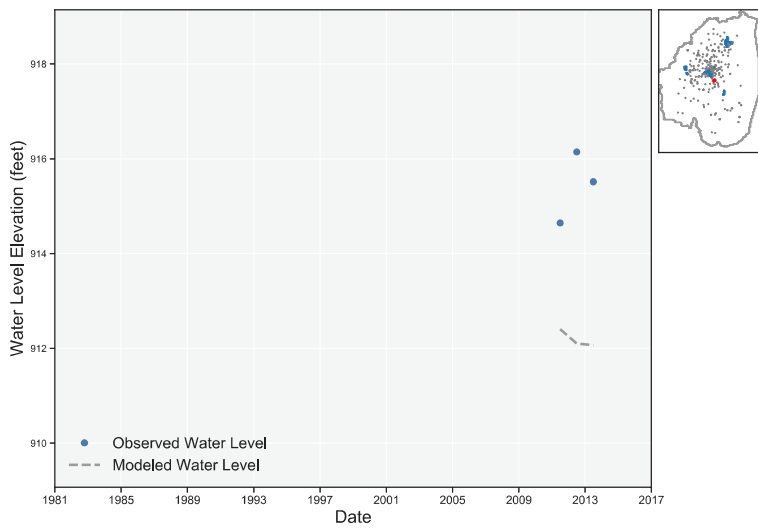
Well 448228 - Aq: QBAA Layers: 5 - 5



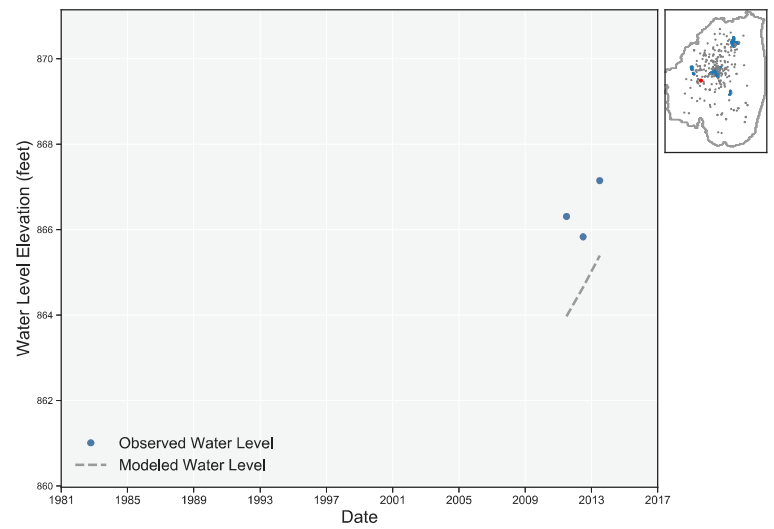
Well 130876 - Aq: OSTP Layers: 5 - 5



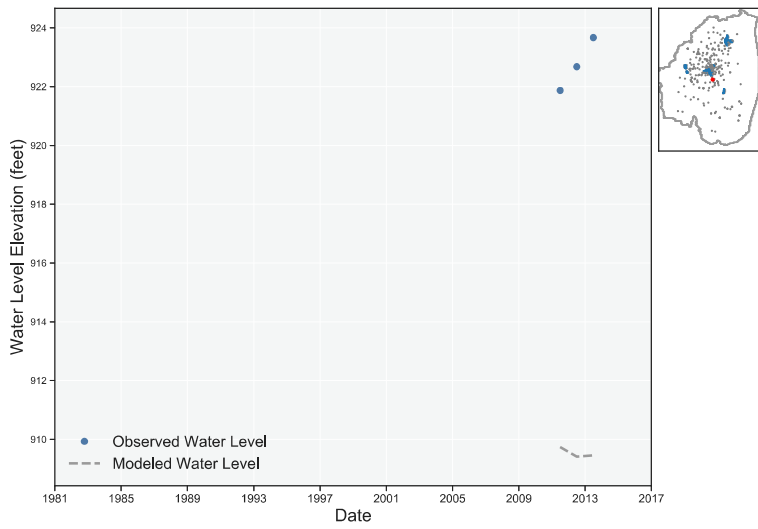
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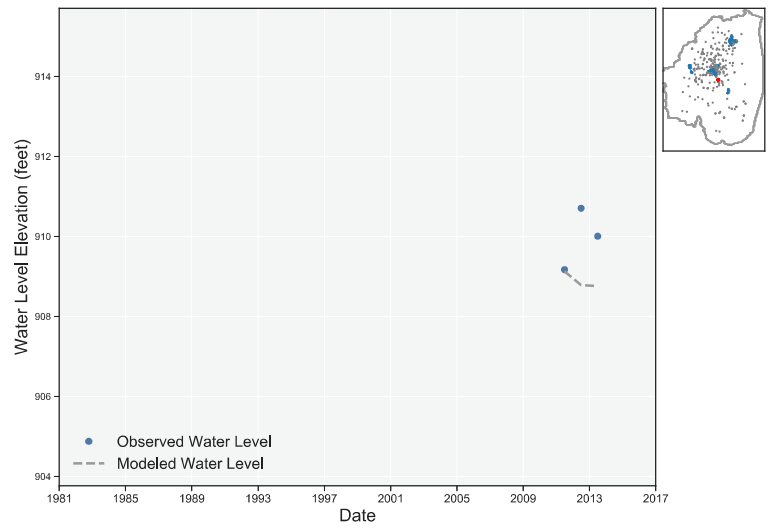
Well 138190 - Aq: OSTP Layers: 5 - 5



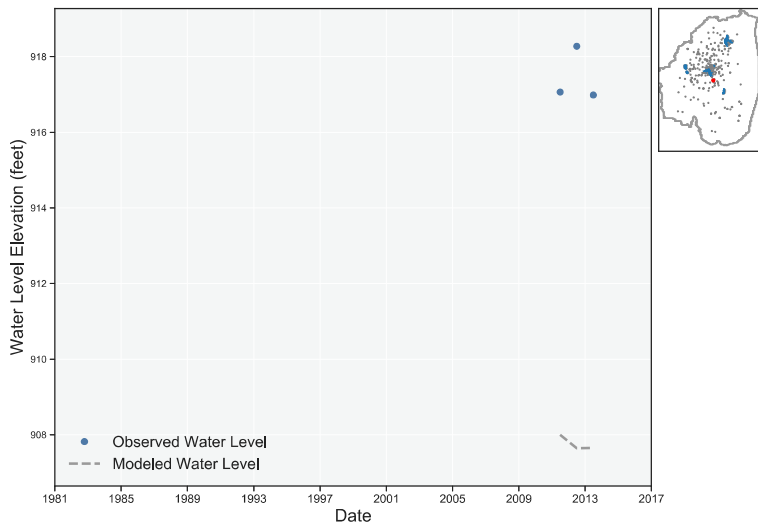
Well 138727 - Aq: OSTP Layers: 5 - 5



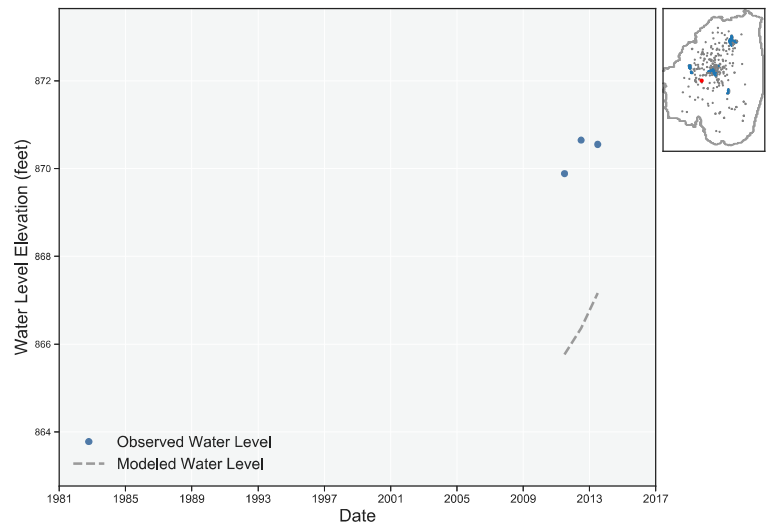
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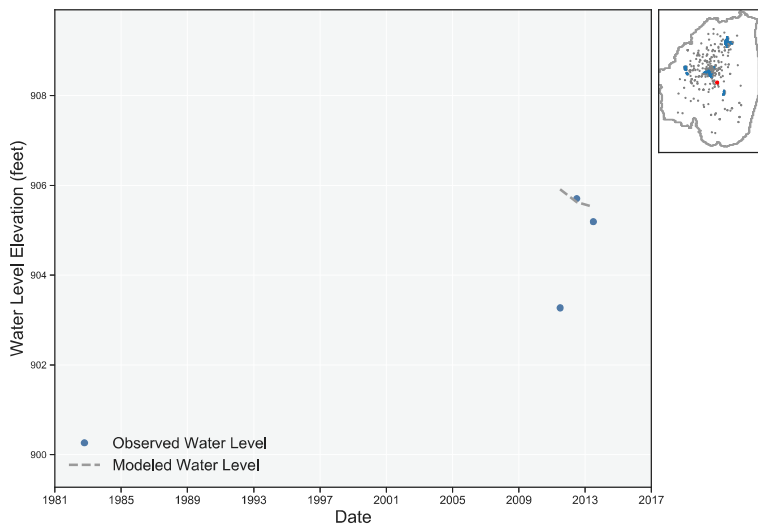
Well 127569 - Aq: OSTP Layers: 5 - 5



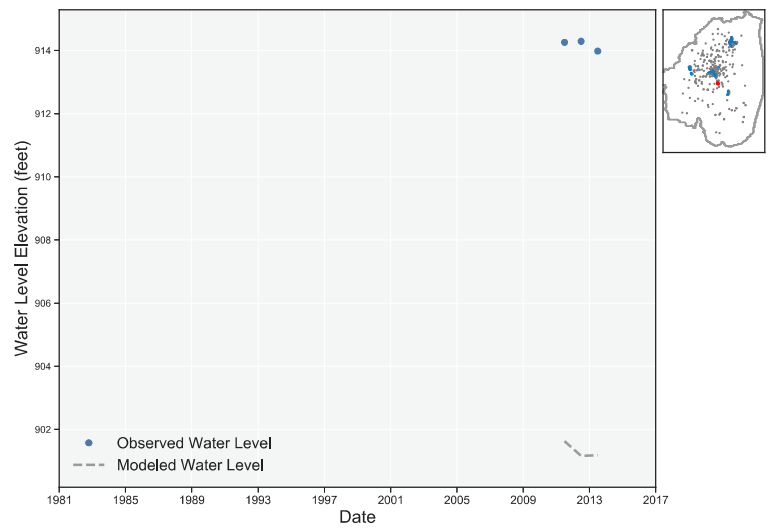
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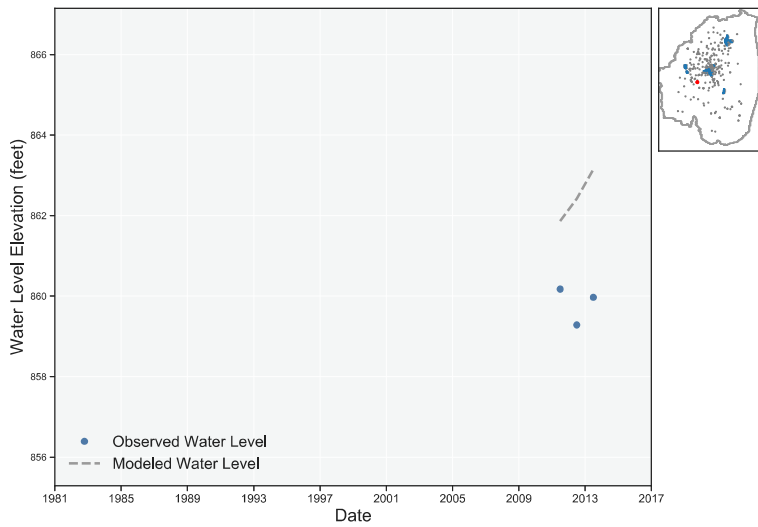
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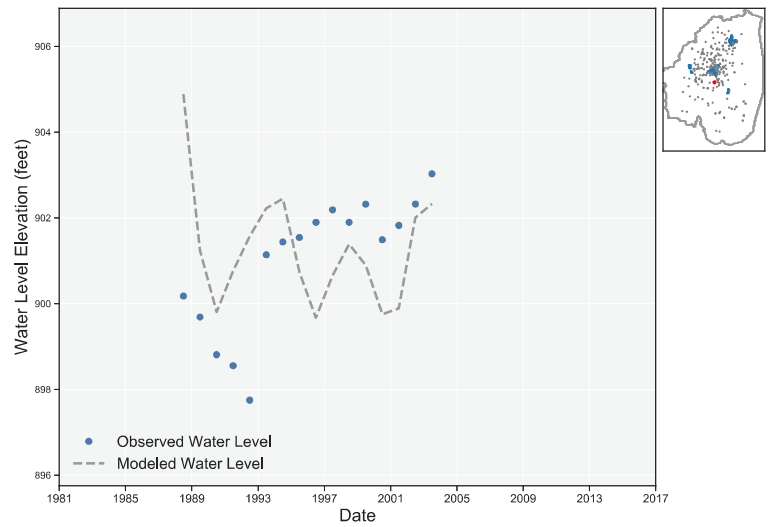
Well 153486 - Aq: QBAA Layers: 5 - 5



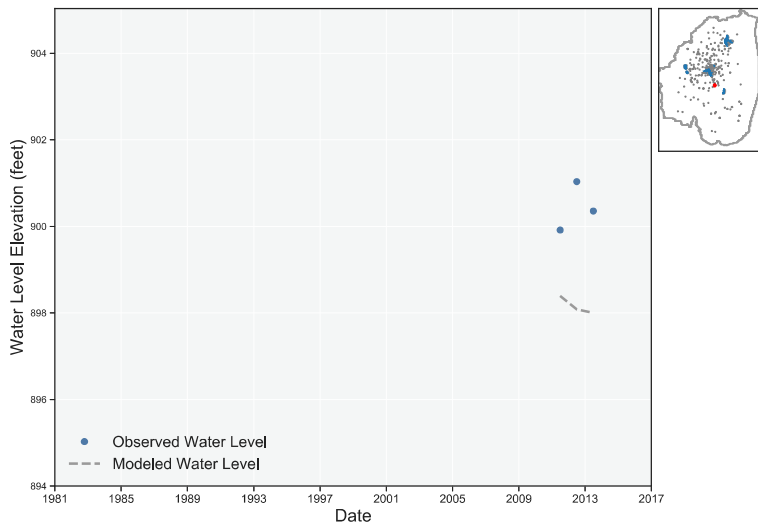
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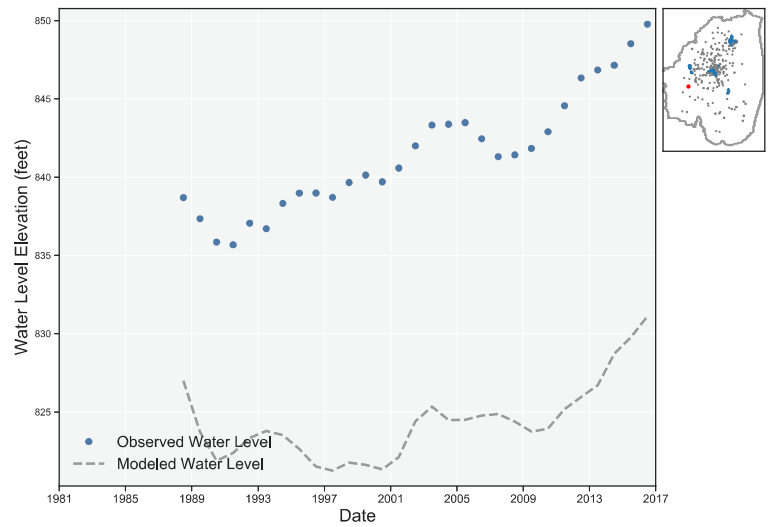
Well 82005 - Aq: OSTP Layers: 5 - 5



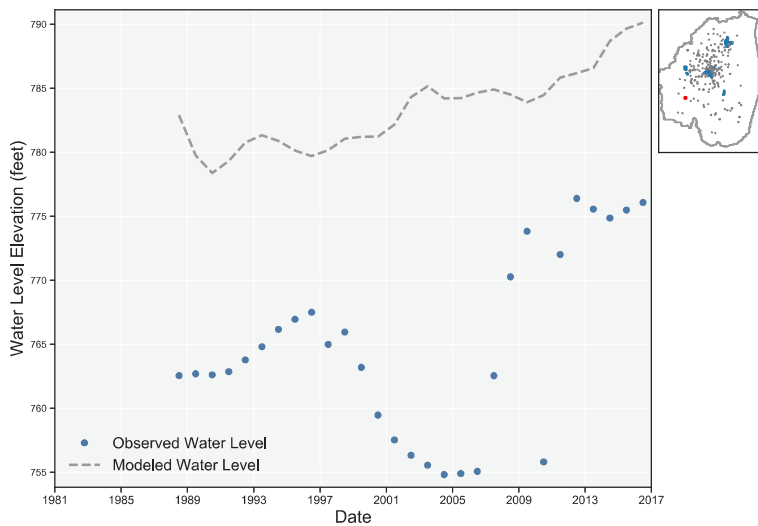
Well 421213 - Aq: OSTP Layers: 5 - 5



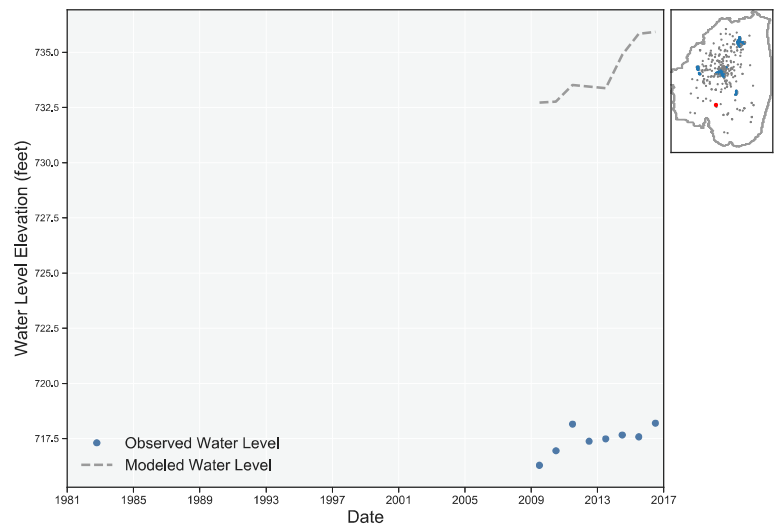
Well 62002 - Aq: OSTP Layers: 5 - 5



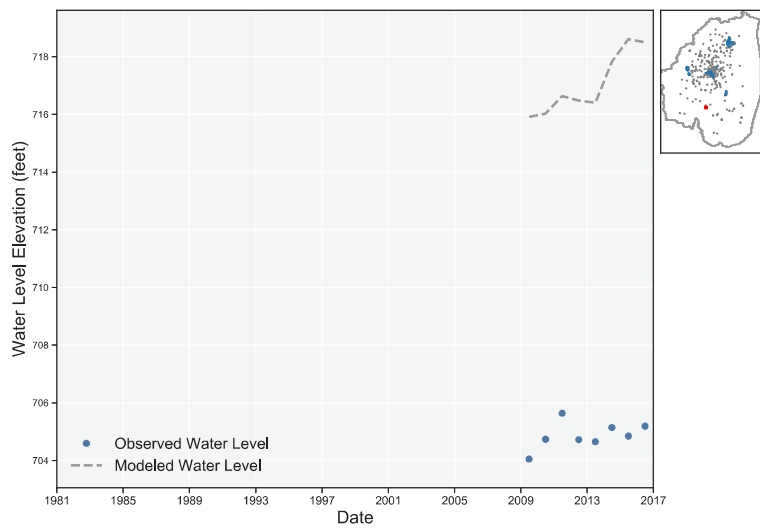
Well 62034 - Aq: OSTP Layers: 5 - 5



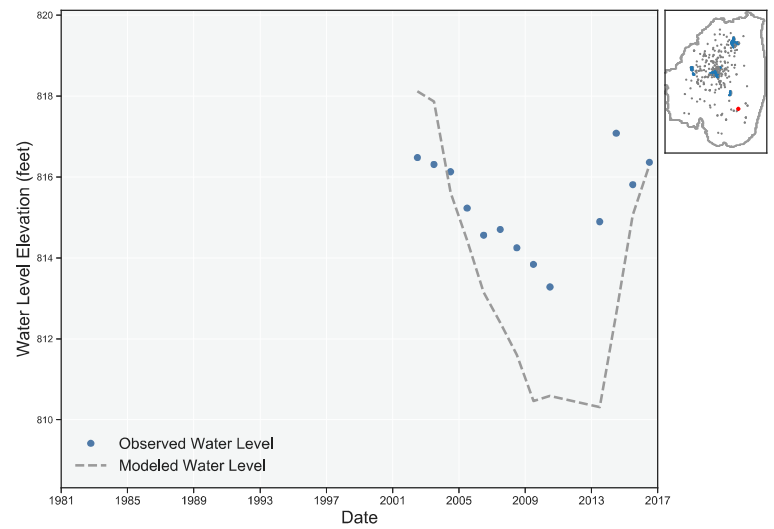
Well 62050 - Aq: OSTP Layers: 5 - 5



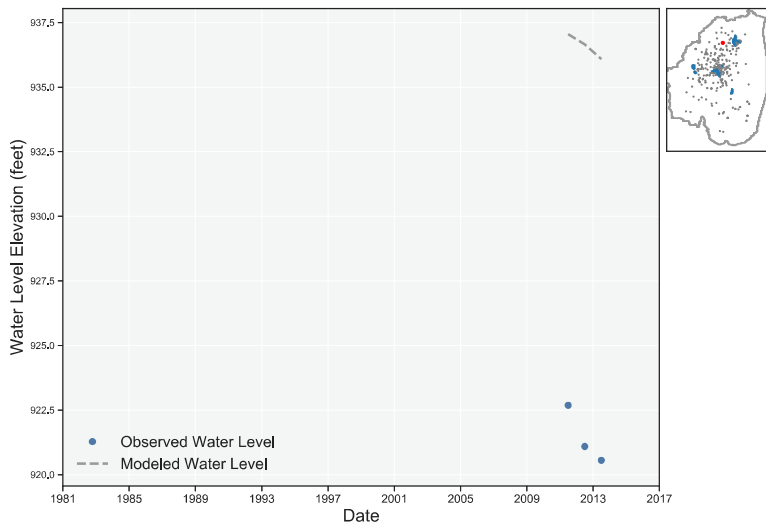
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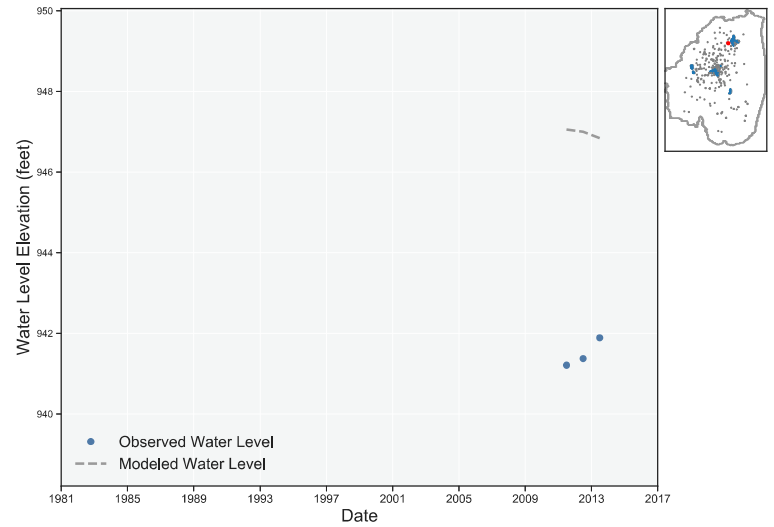
Well 675586 - Aq: QWTA Layers: 5 - 5



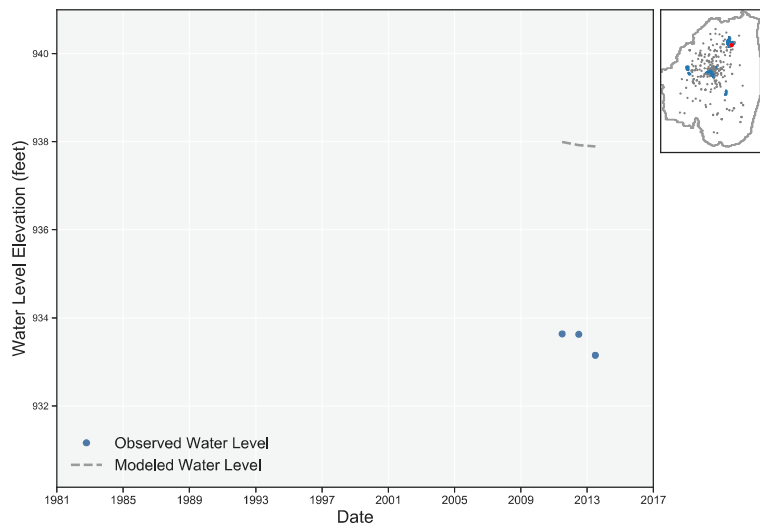
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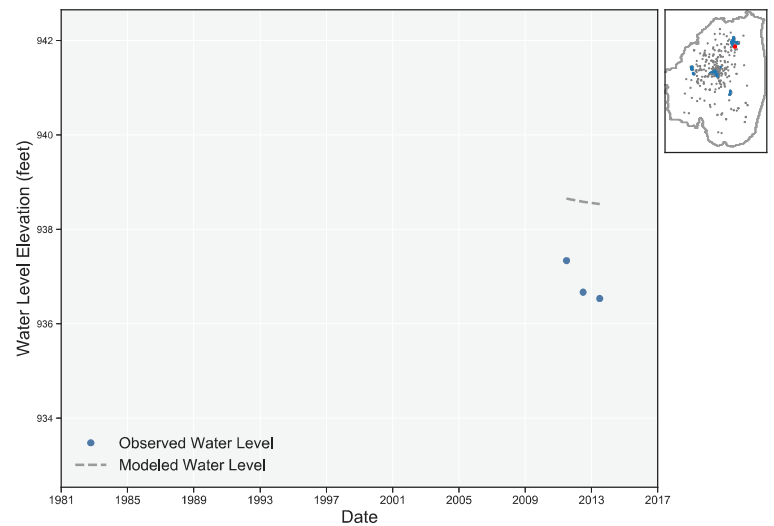
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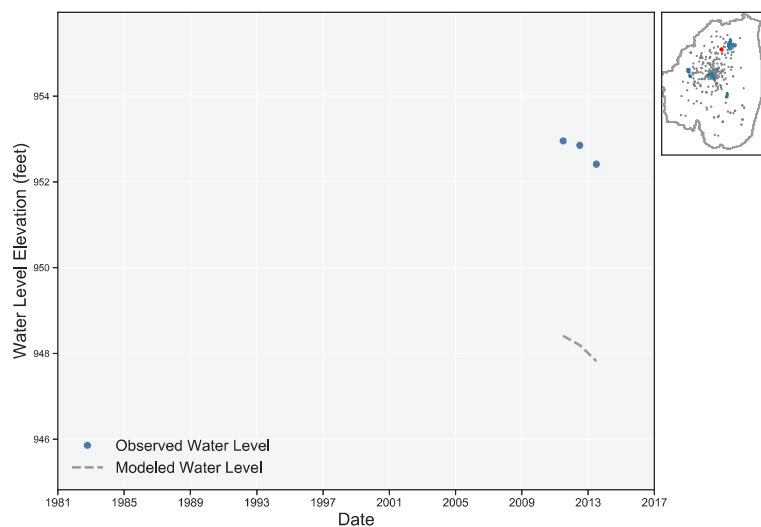
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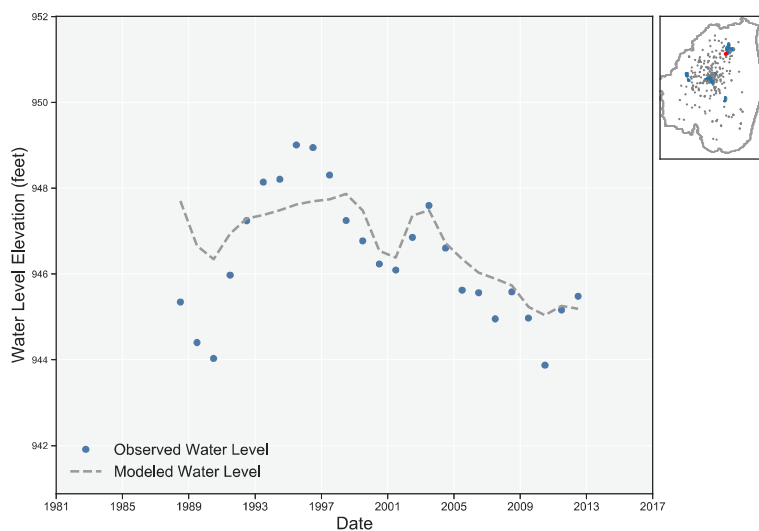
Well 435109 - Aq: OPDC Layers: 6 - 6



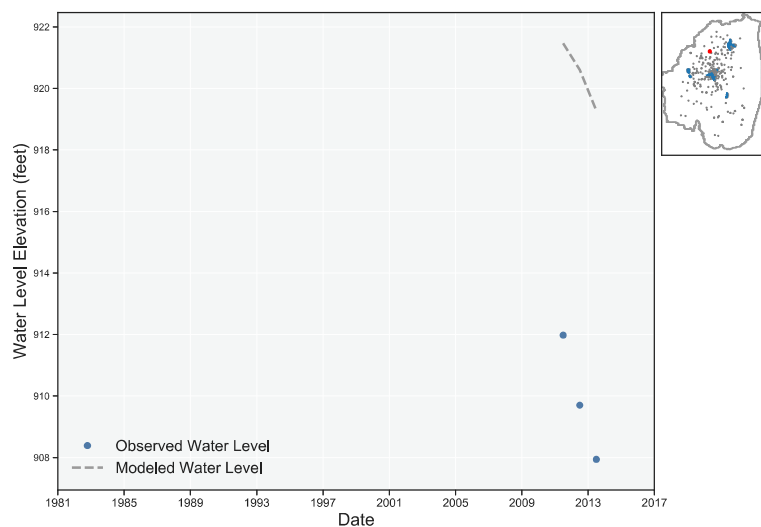
Well 450385 - Aq: OPDC Layers: 6 - 6



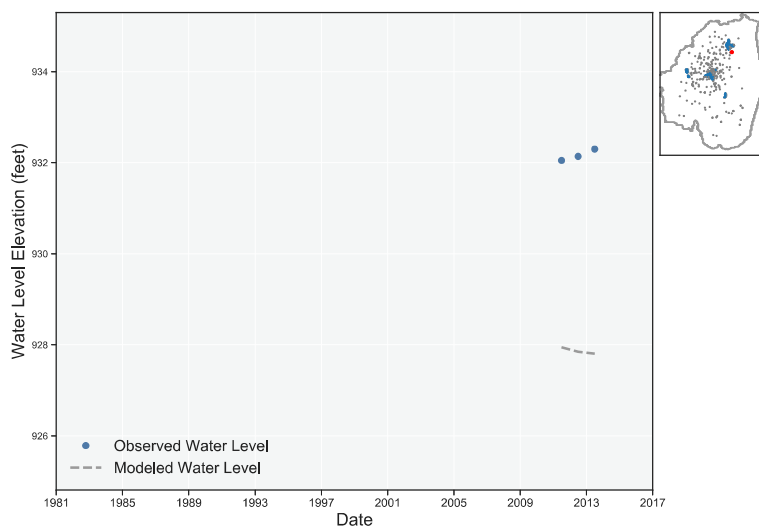
Well 82035 - Aq: OPDC Layers: 6 - 6



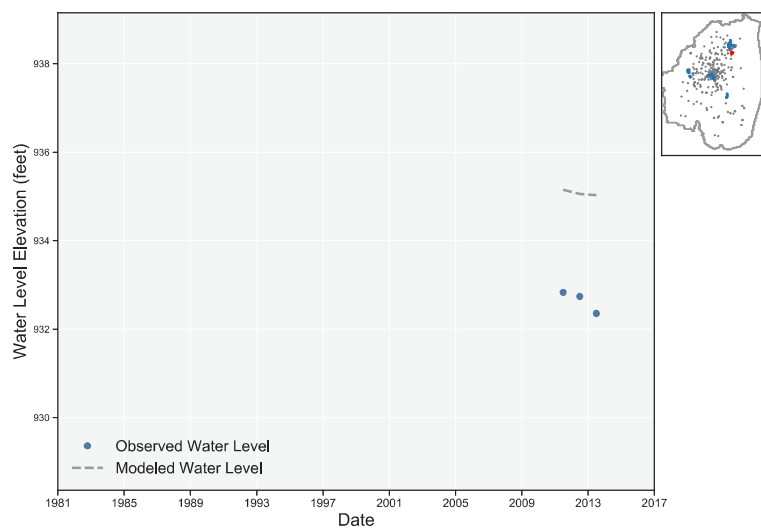
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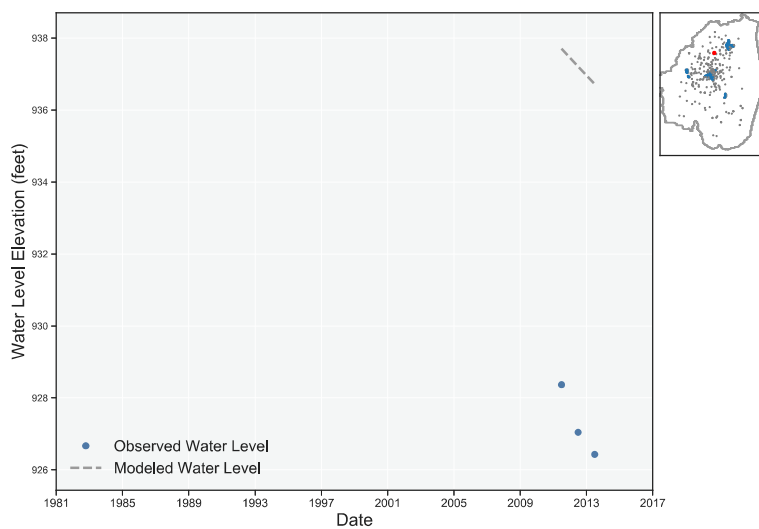
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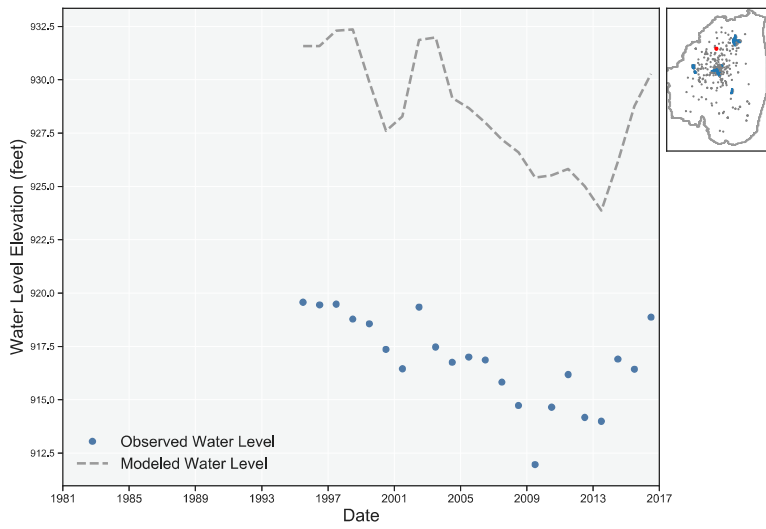
Well 422349 - Aq: OPDC Layers: 6 - 6



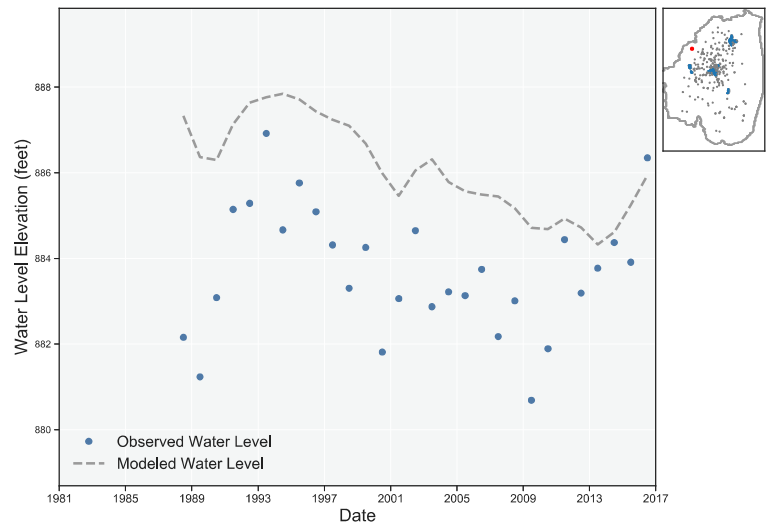
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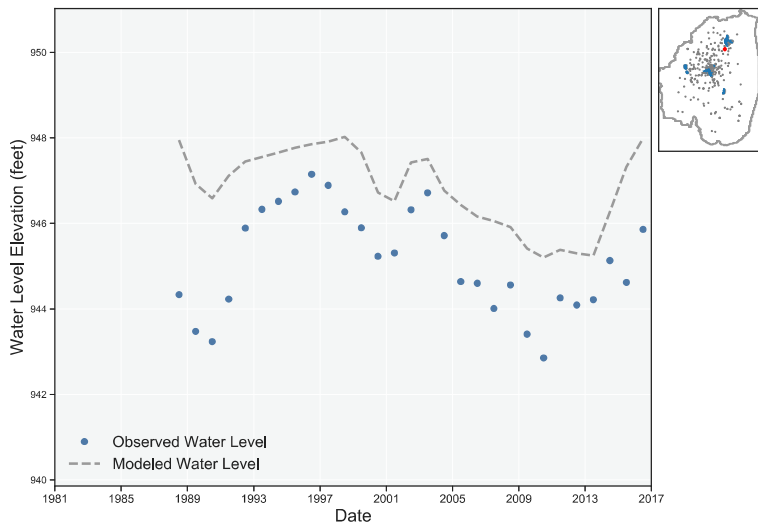
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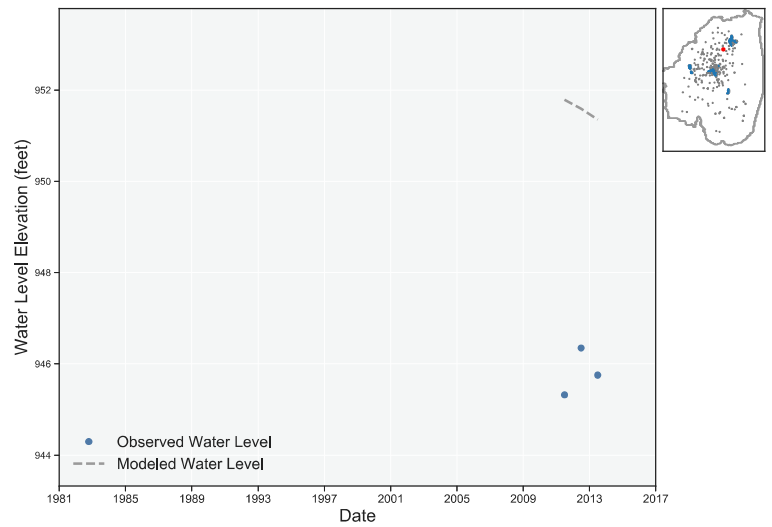
Well 2009 - Aq: QBAA Layers: 6 - 6



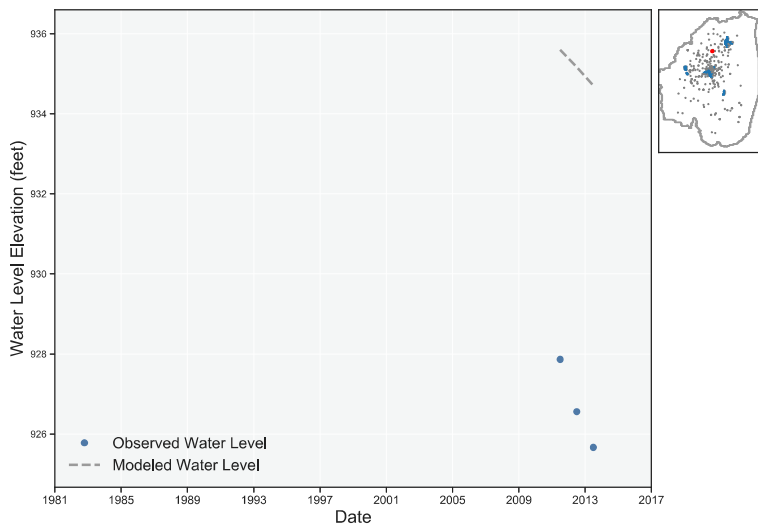
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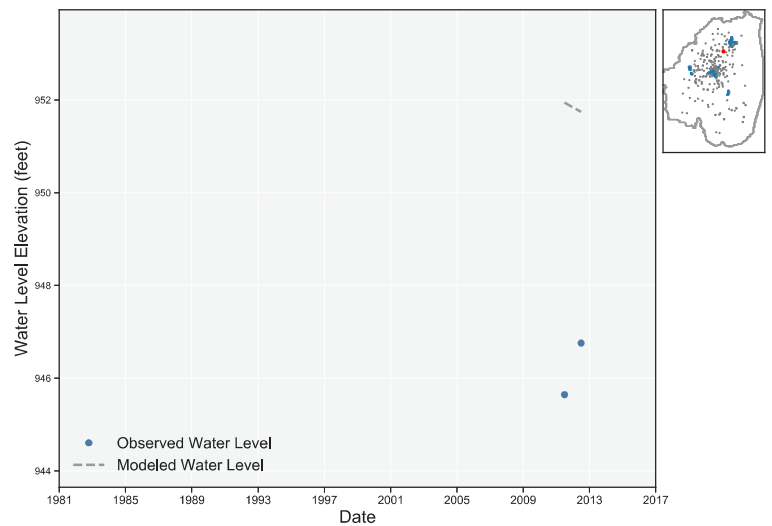
Well 196935 - Aq: OPDC Layers: 6 - 6



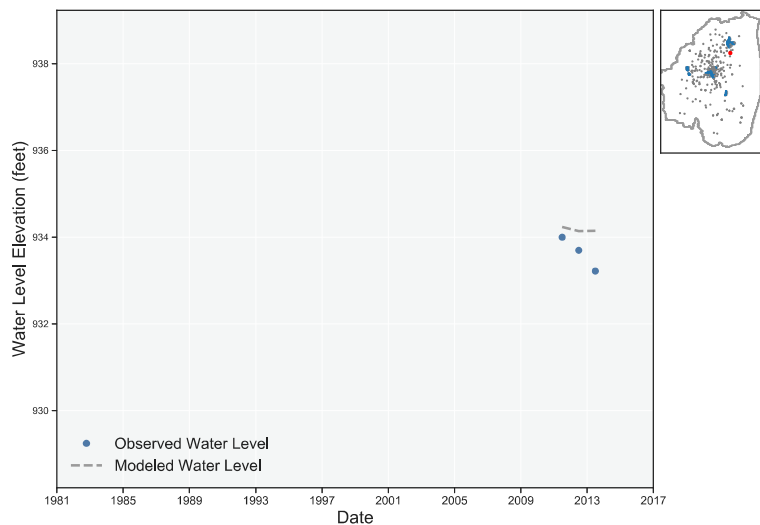
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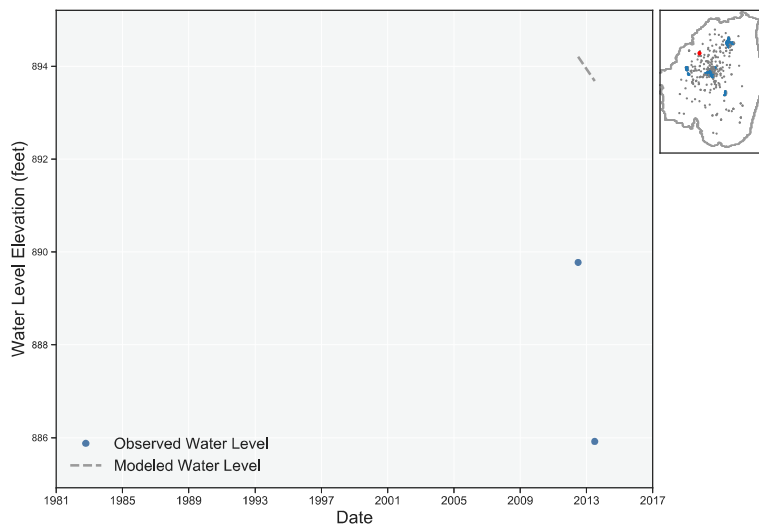
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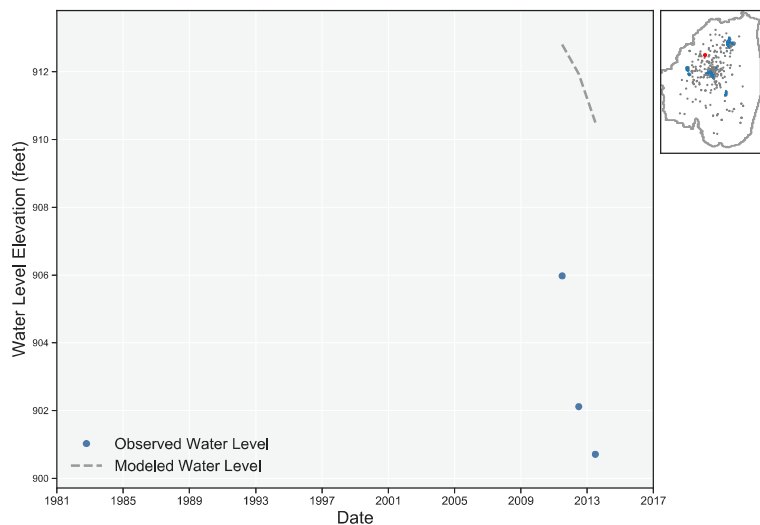
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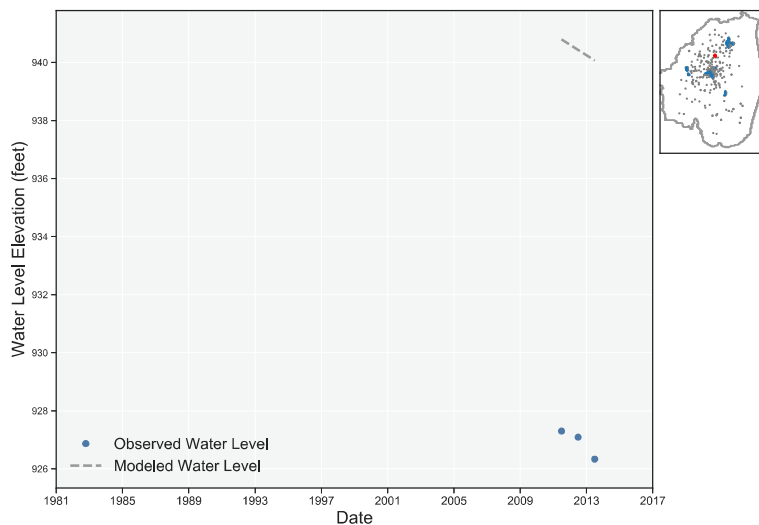
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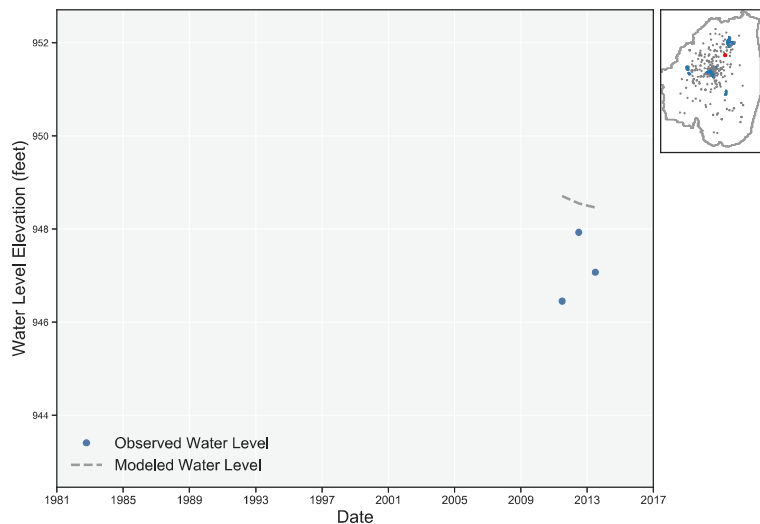
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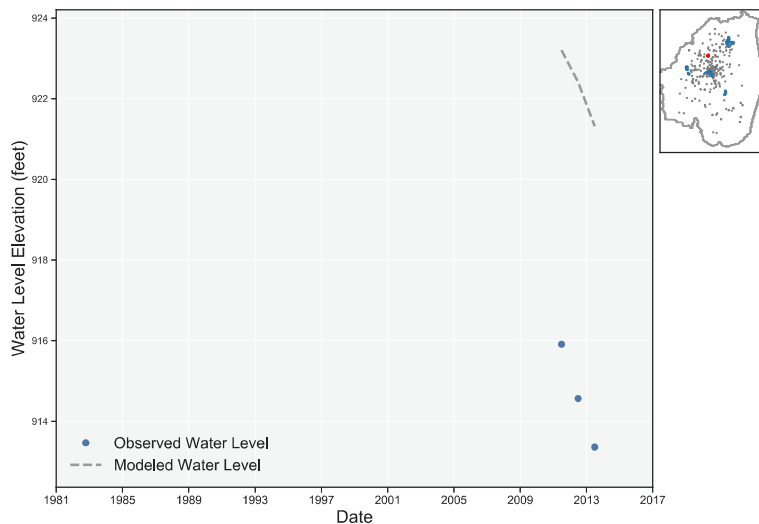
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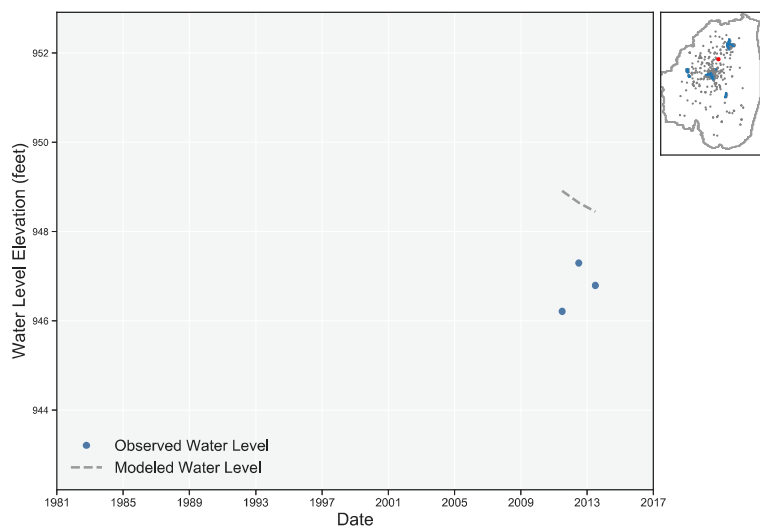
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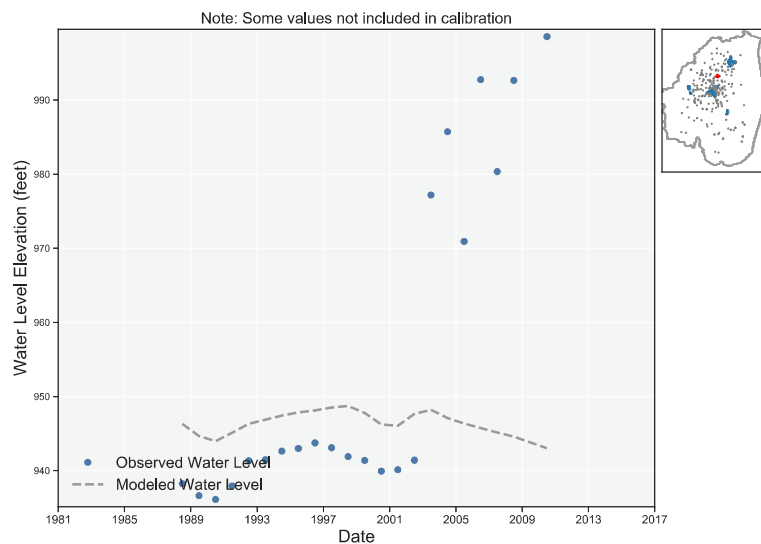
Well 427681 - Aq: OPDC Layers: 6 - 6



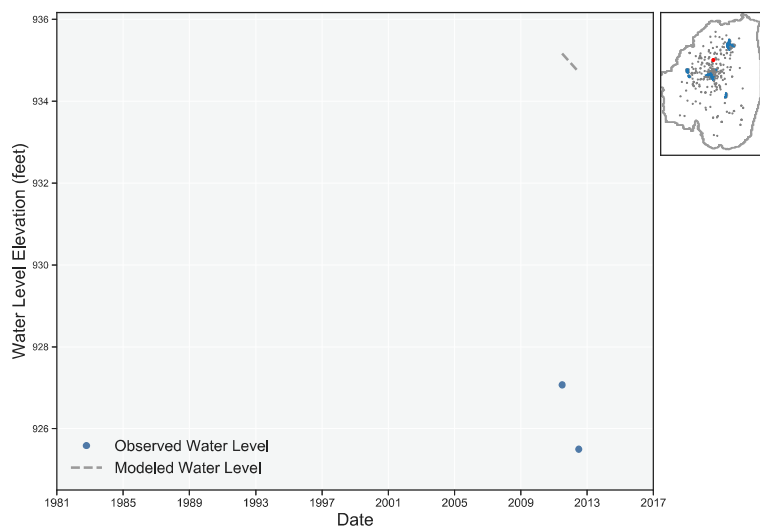
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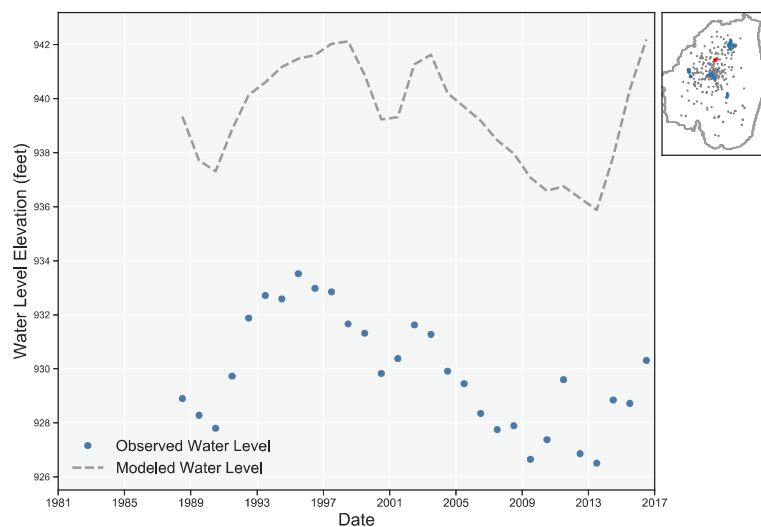
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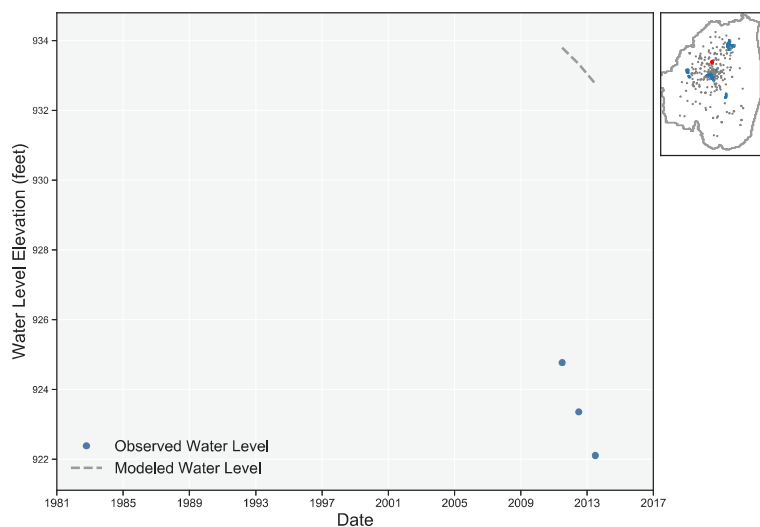
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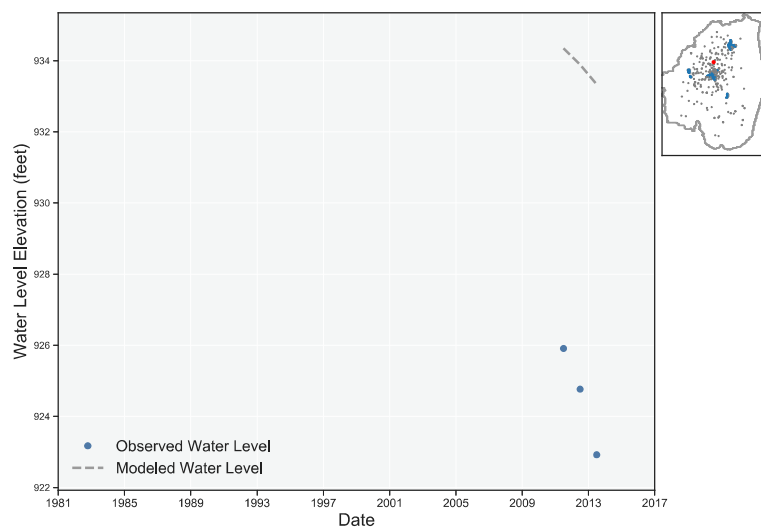
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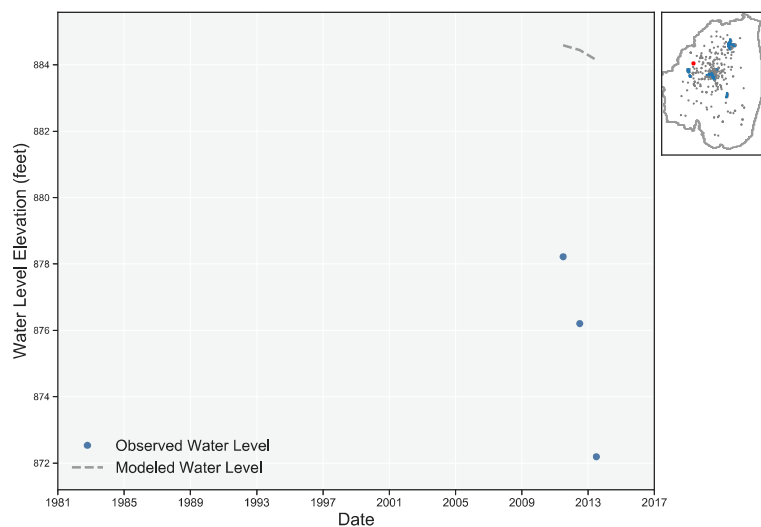
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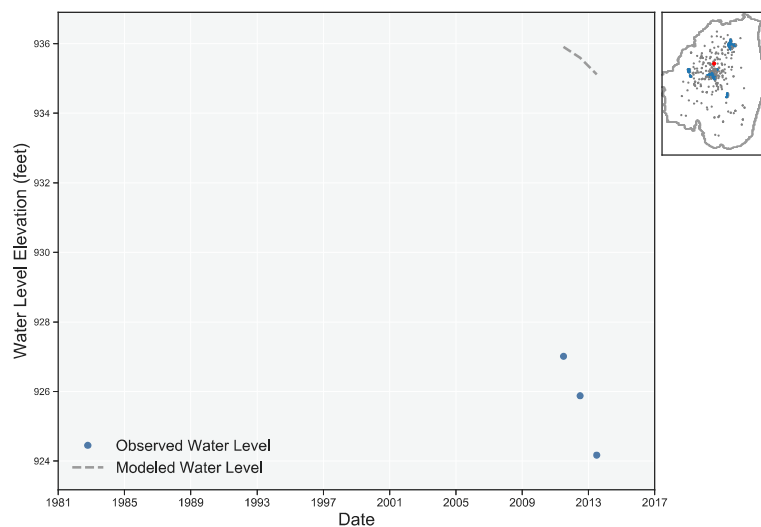
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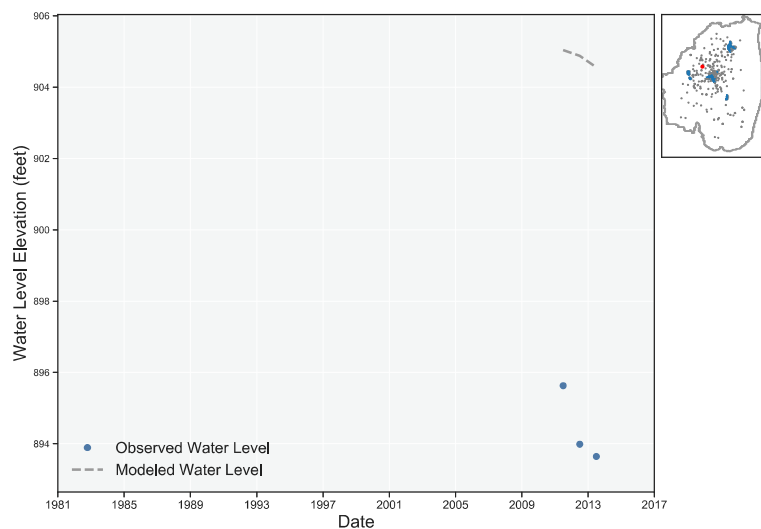
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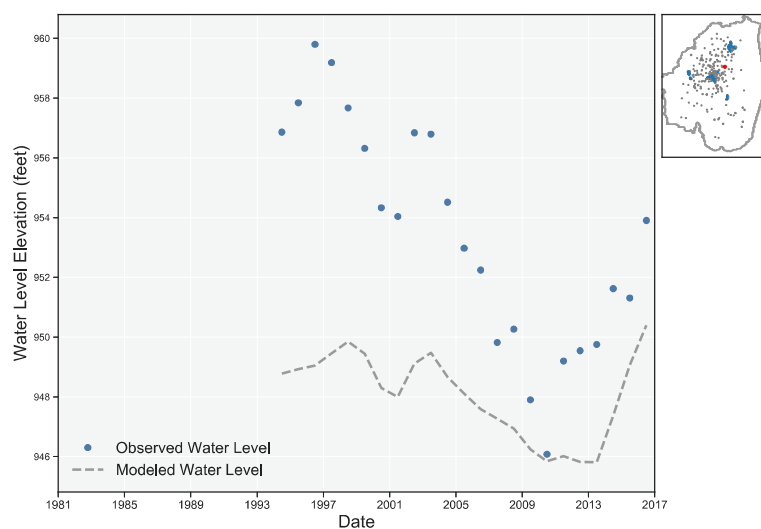
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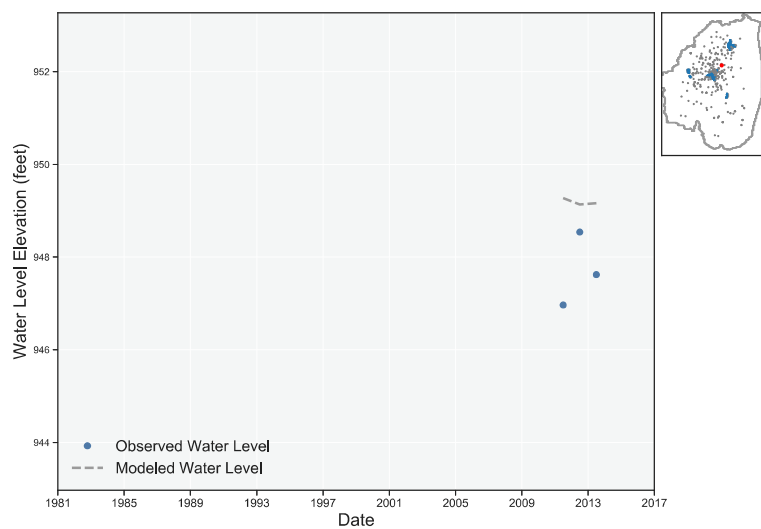
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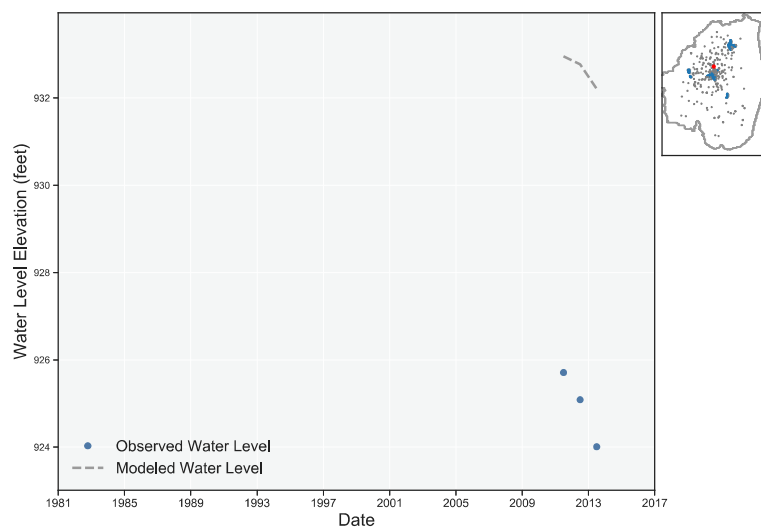
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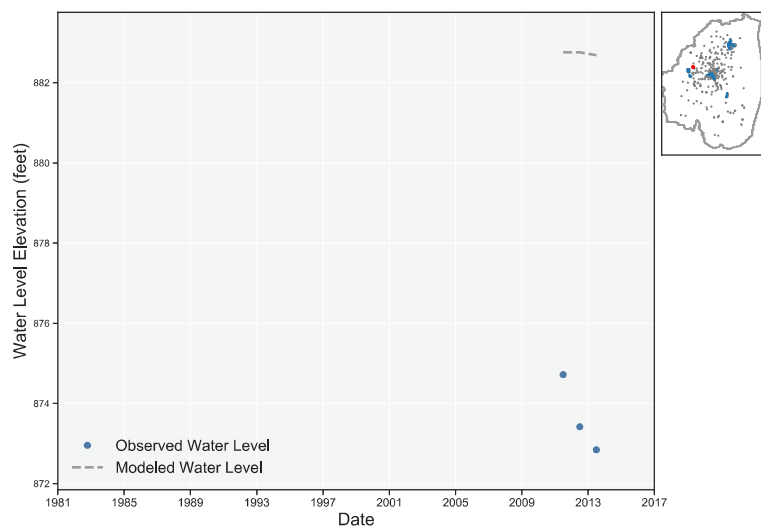
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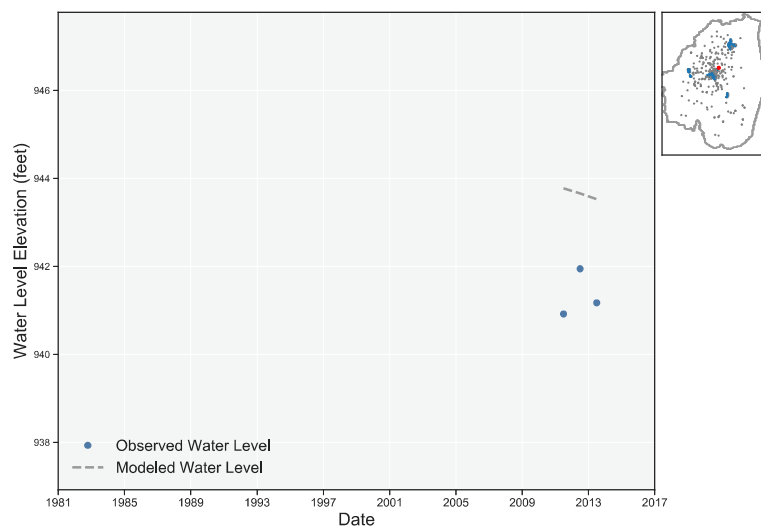
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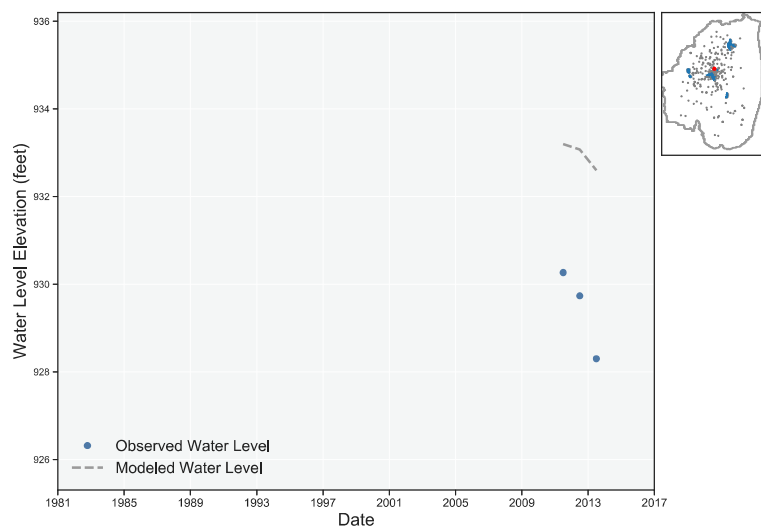
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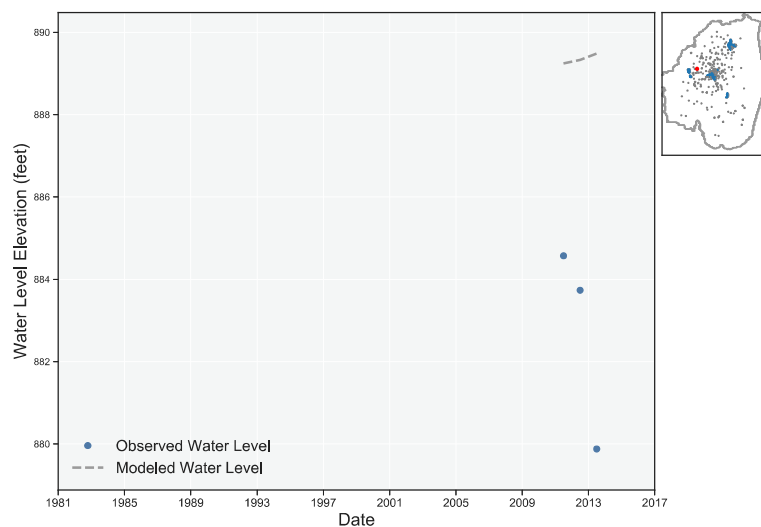
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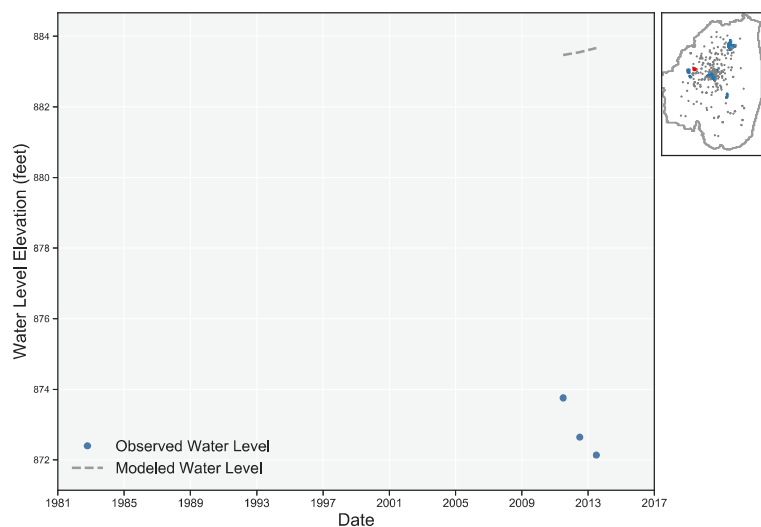
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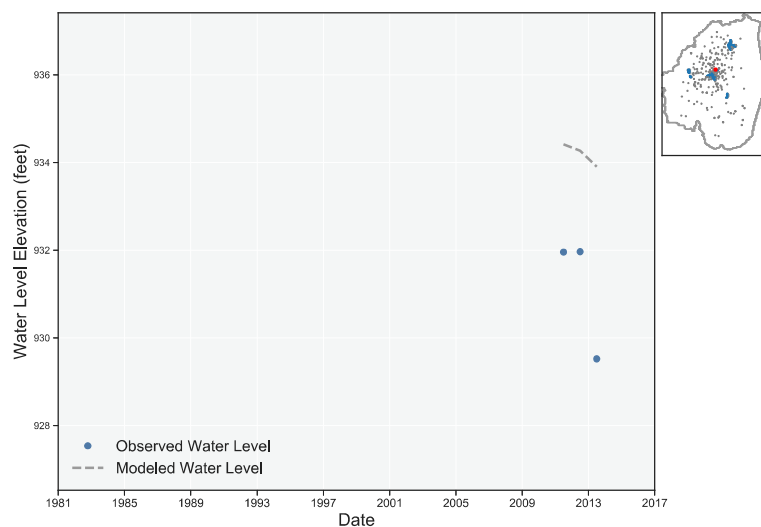
Well 205700 - Aq: OPDC Layers: 6 - 6



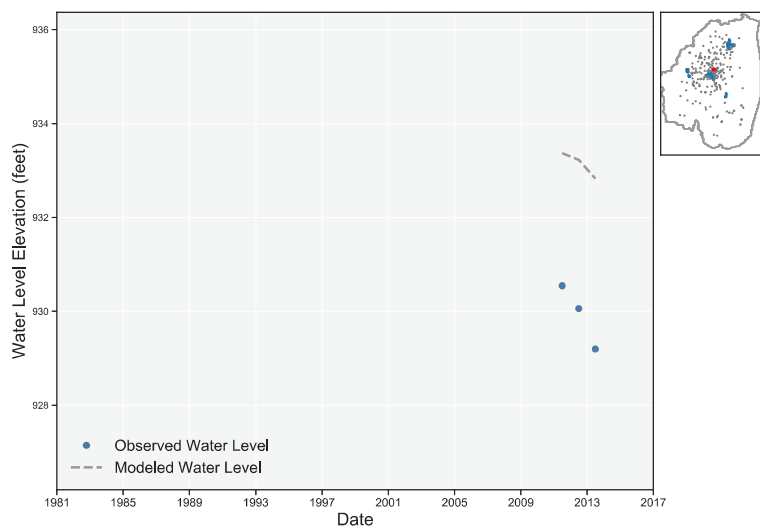
Well 521812 - Aq: OPDC Layers: 6 - 6



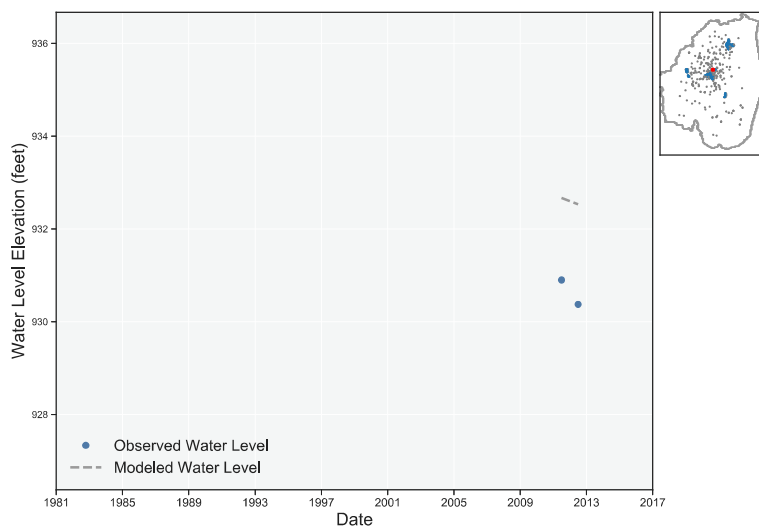
Well 418562 - Aq: OPDC Layers: 6 - 6



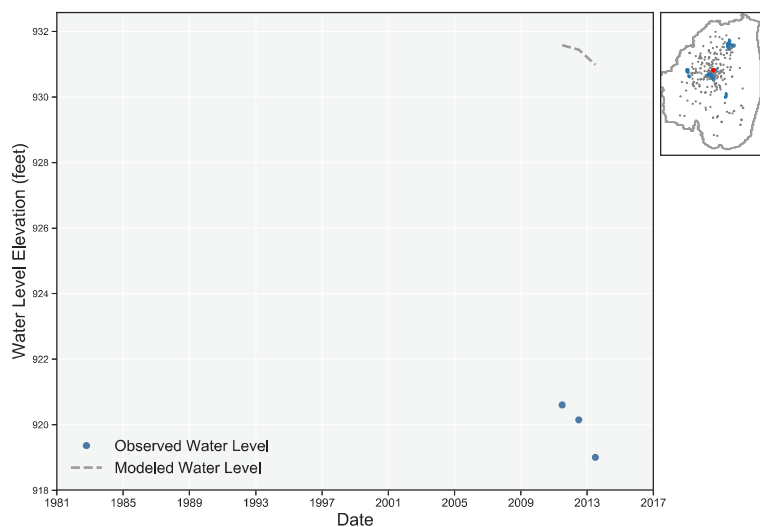
Well 421207 - Aq: OPDC Layers: 6 - 6



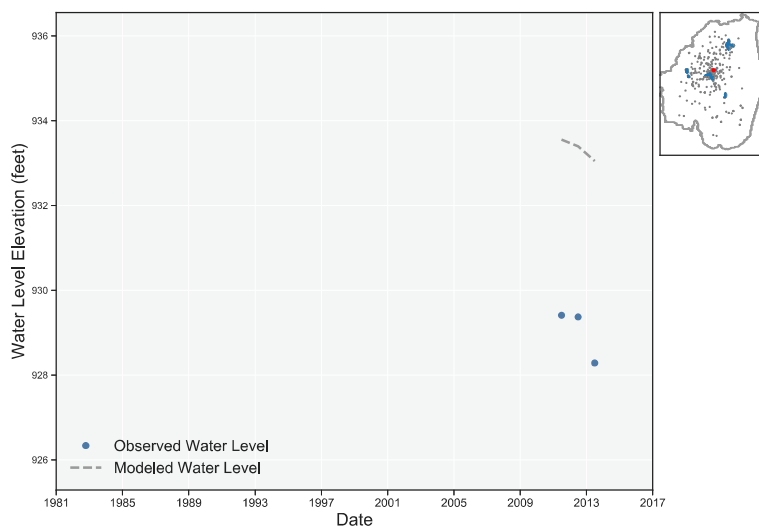
Well 450530 - Aq: OPDC Layers: 6 - 6



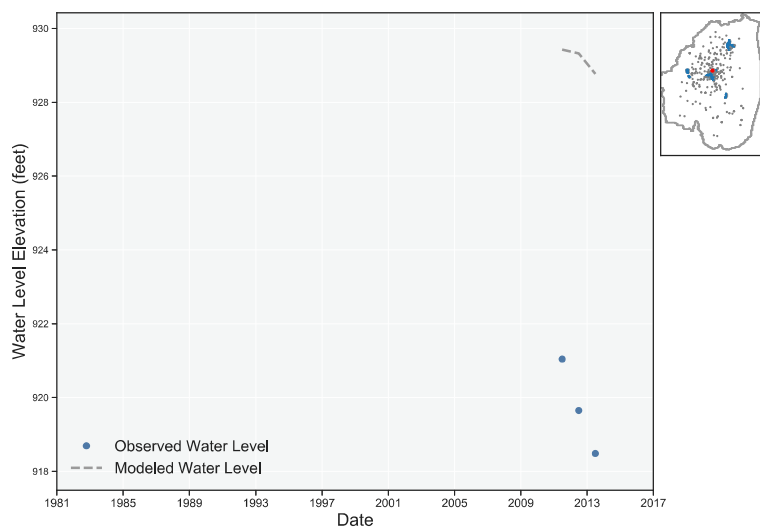
Well 427888 - Aq: OPDC Layers: 6 - 6



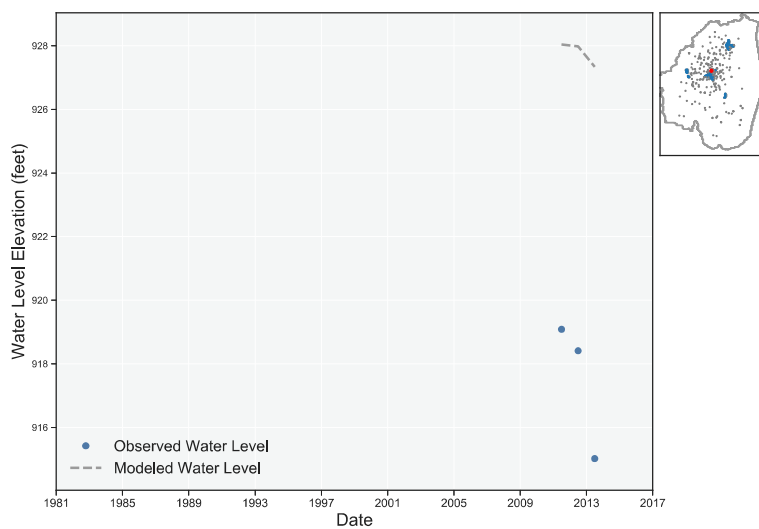
Well 182909 - Aq: OPDC Layers: 6 - 6



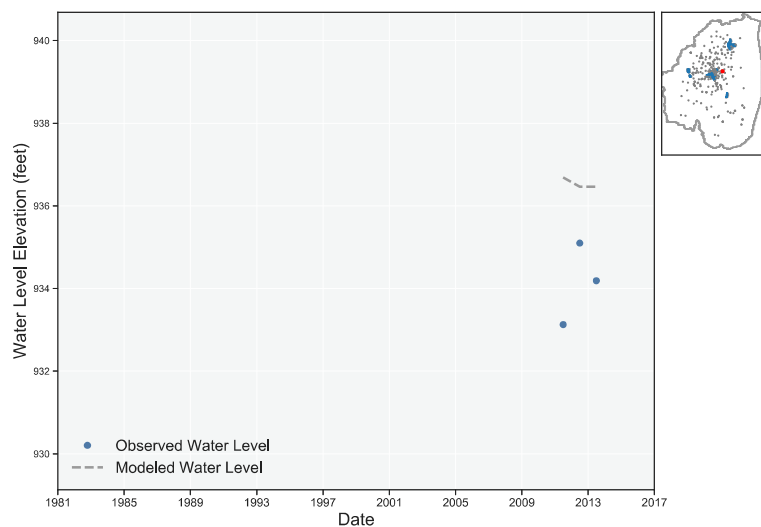
Well 208473 - Aq: OPDC Layers: 6 - 6



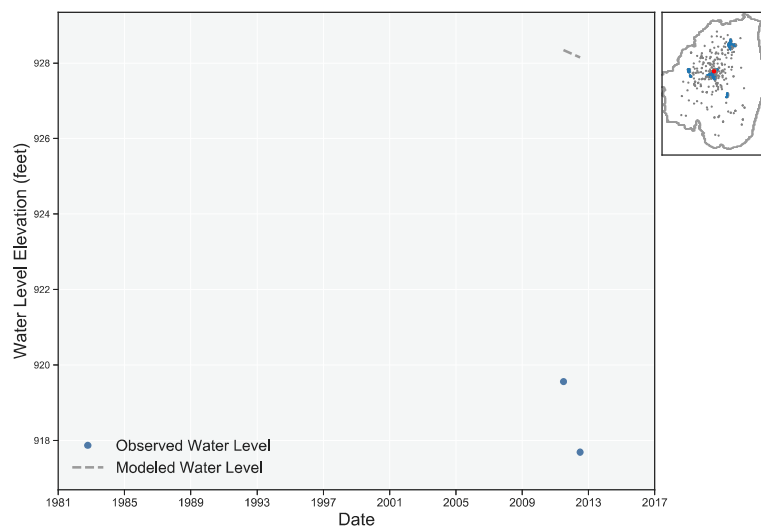
Well 450573 - Aq: OPDC Layers: 6 - 6



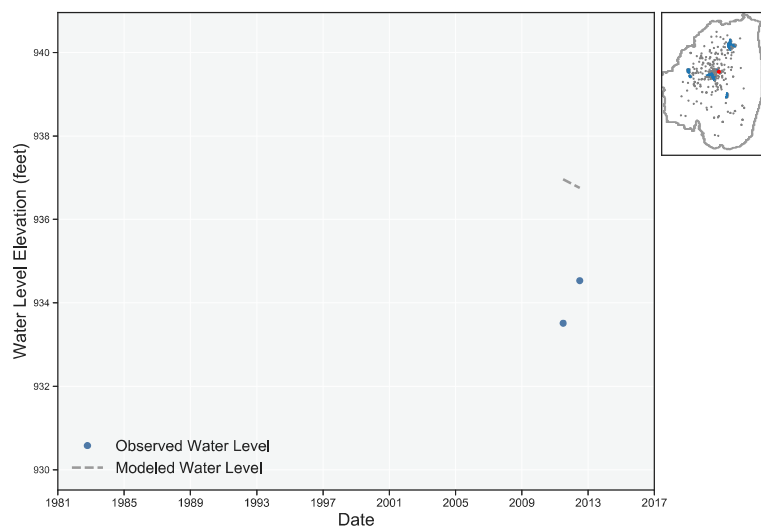
Well 182782 - Aq: OPDC Layers: 6 - 6



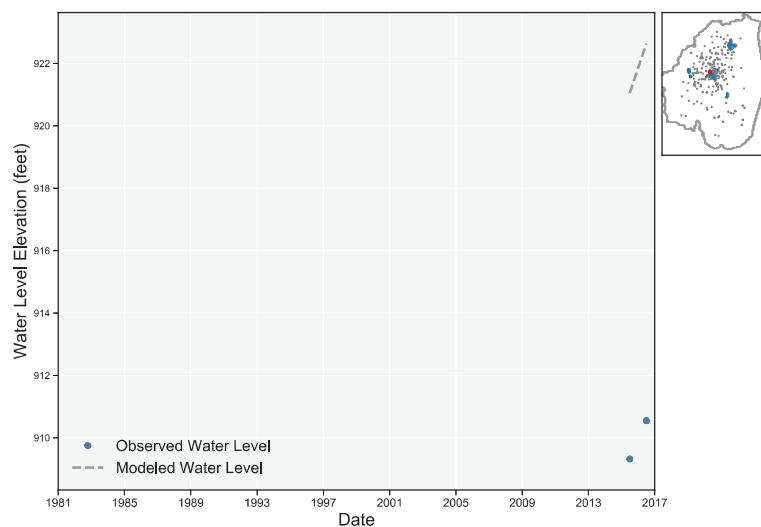
Well 182763 - Aq: OPDC Layers: 6 - 6



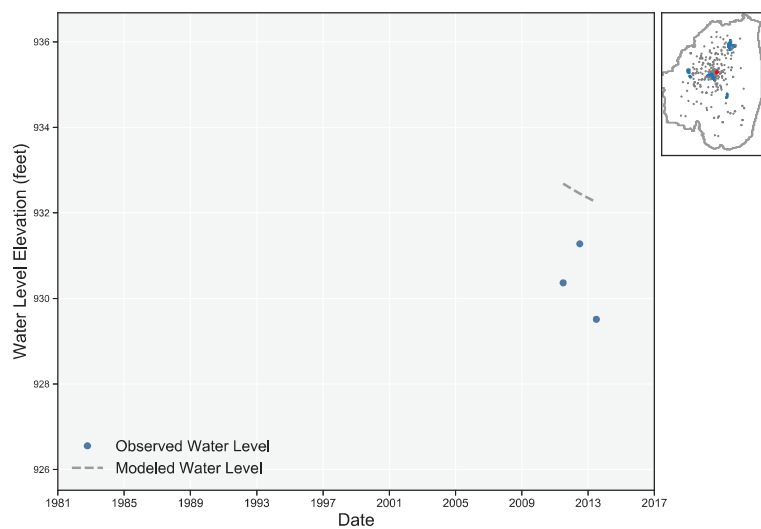
Well 430520 - Aq: OPDC Layers: 6 - 6



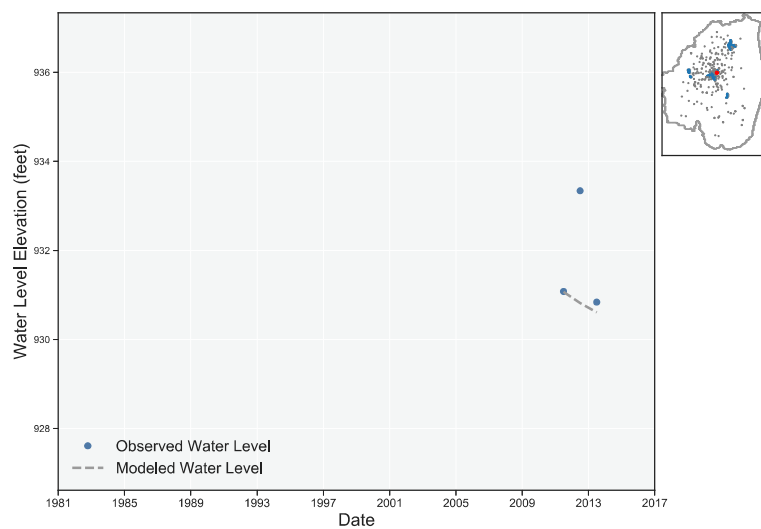
Well 62053 - Aq: CJDN Layers: 6 - 6



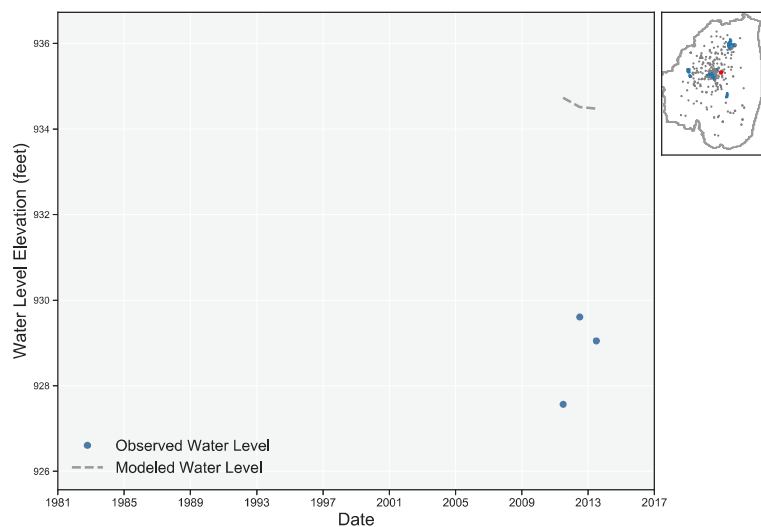
Well 195679 - Aq: OPDC Layers: 6 - 6



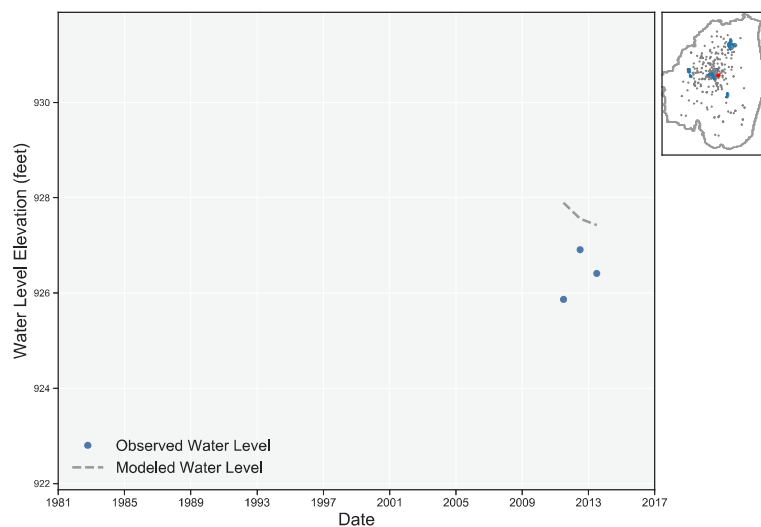
Well 207398 - Aq: OPDC Layers: 6 - 6



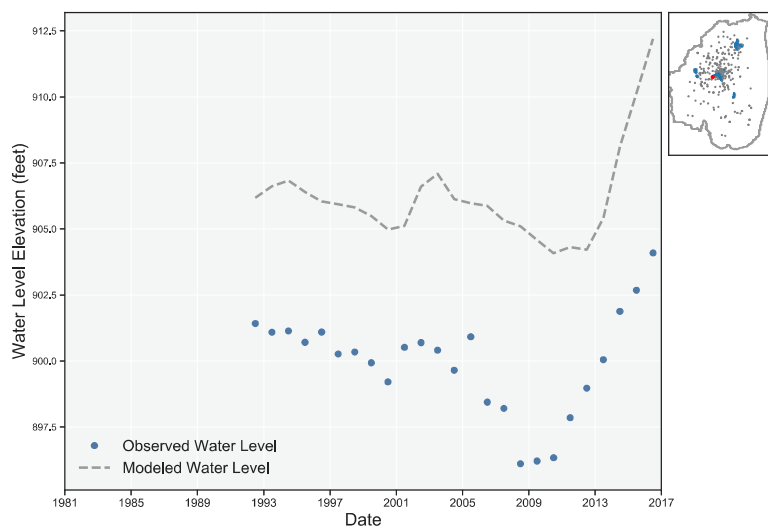
Well 404147 - Aq: OPDC Layers: 6 - 6



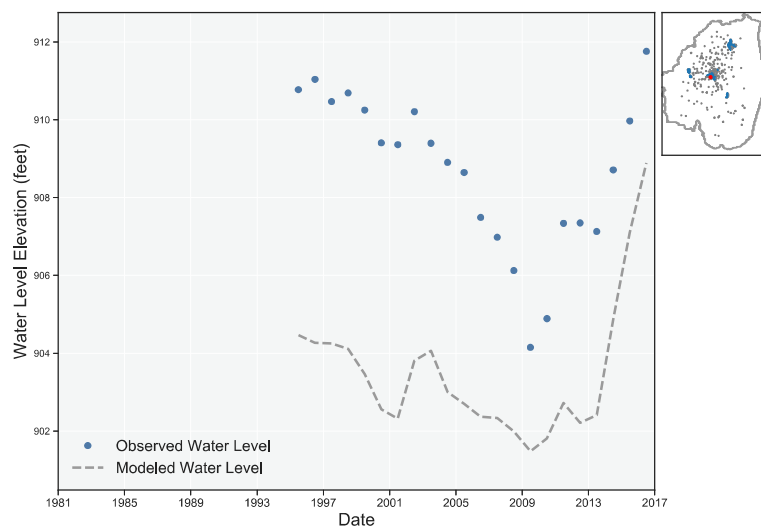
Well 420312 - Aq: OPDC Layers: 6 - 6



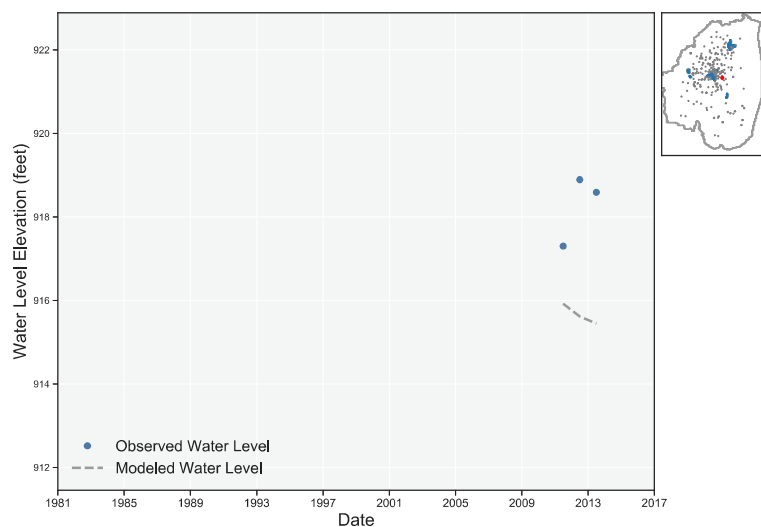
Well 62038 - Aq: OPDCCJDN Layers: 6 - 6



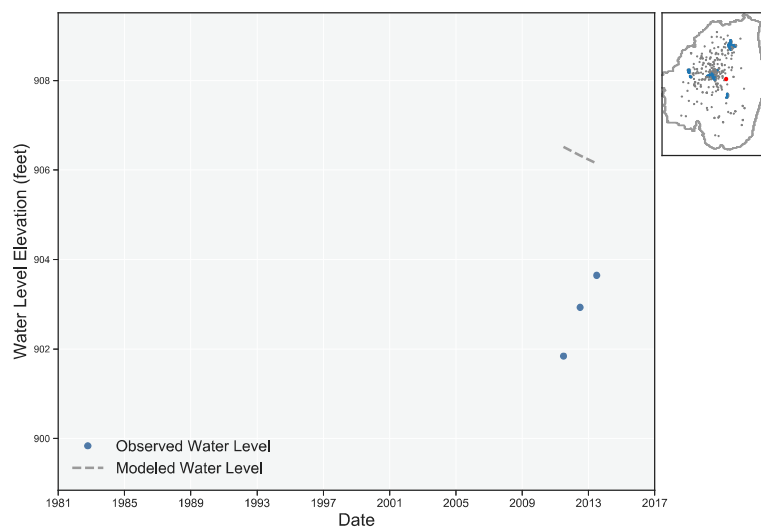
Well 62044 - Aq: OPDC Layers: 6 - 6



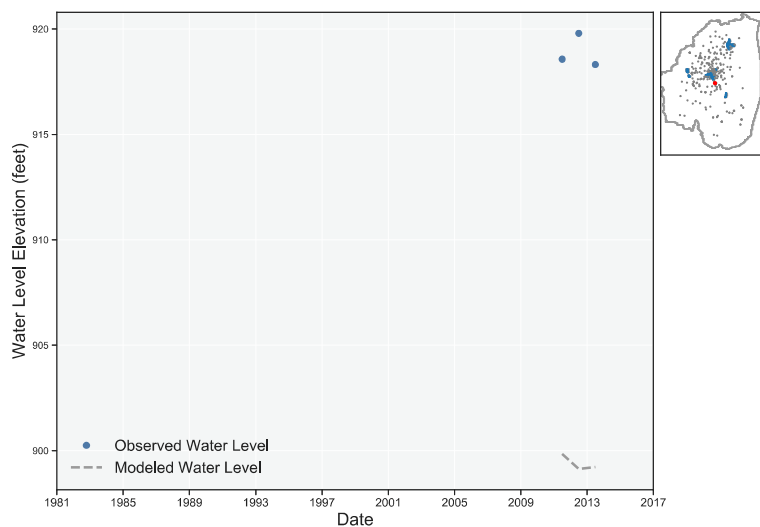
Well 435121 - Aq: OPDC Layers: 6 - 6



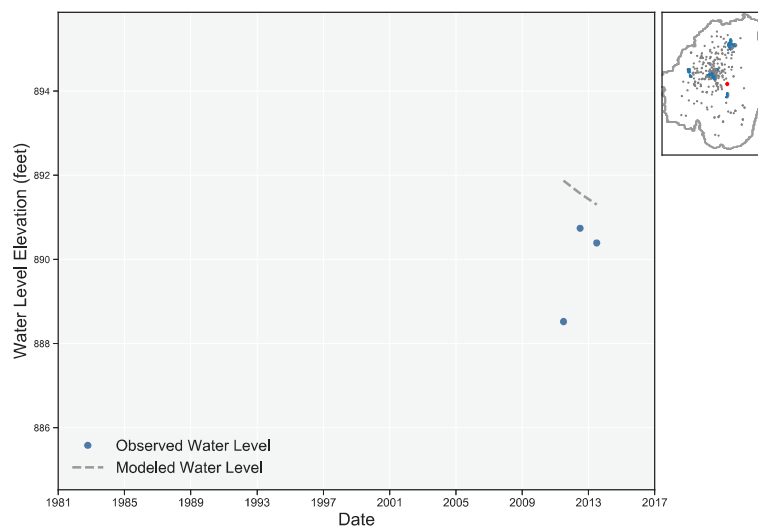
Well 762107 - Aq: OSTP Layers: 6 - 6



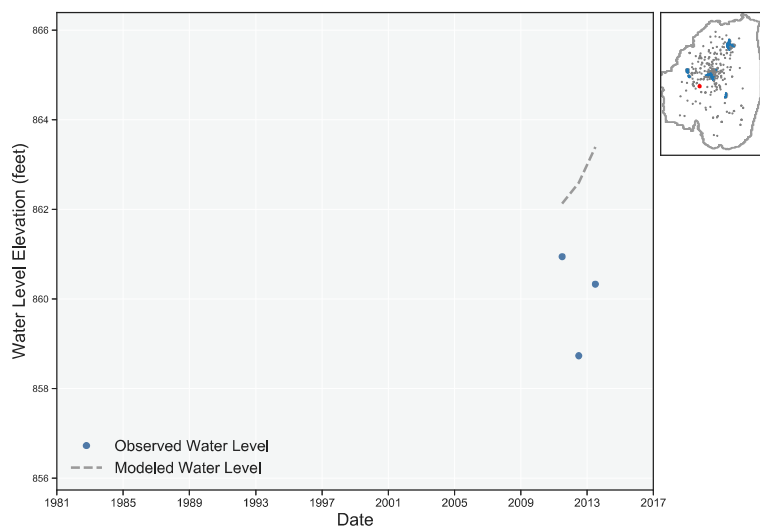
Well 138719 - Aq: OPDC Layers: 6 - 6



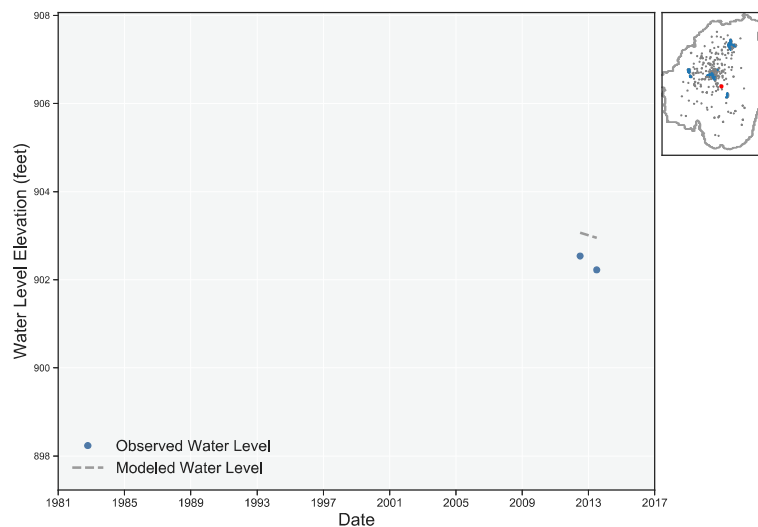
Well 242357 - Aq: OPDC Layers: 6 - 6



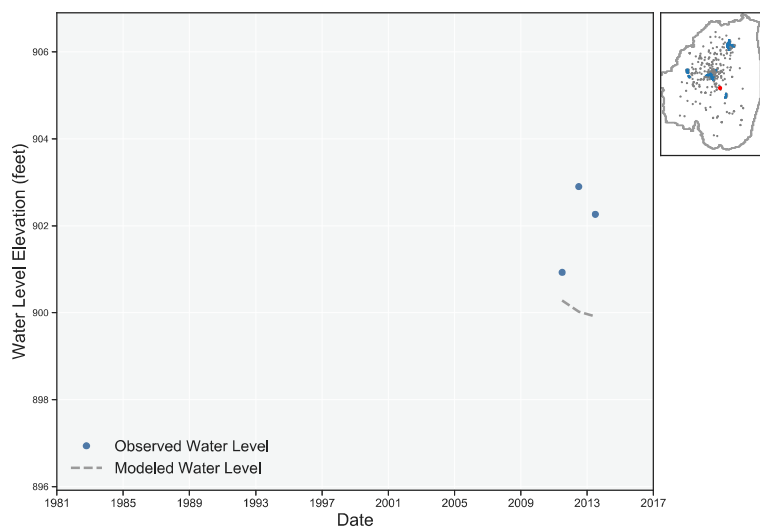
Well 430379 - Aq: OPDC Layers: 6 - 6



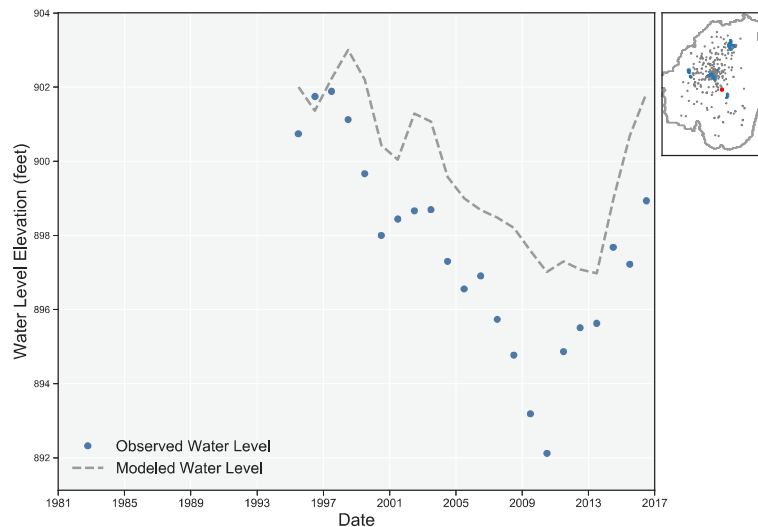
Well 421245 - Aq: OPDC Layers: 6 - 6



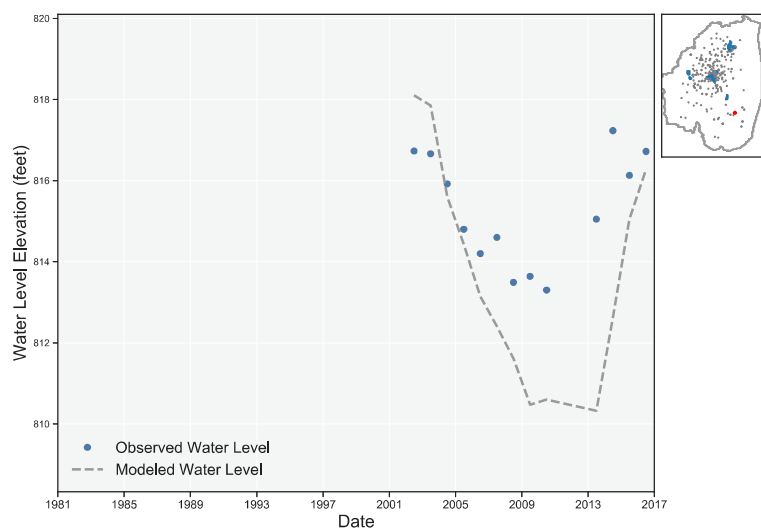
Well 440010 - Aq: OSTP Layers: 6 - 6



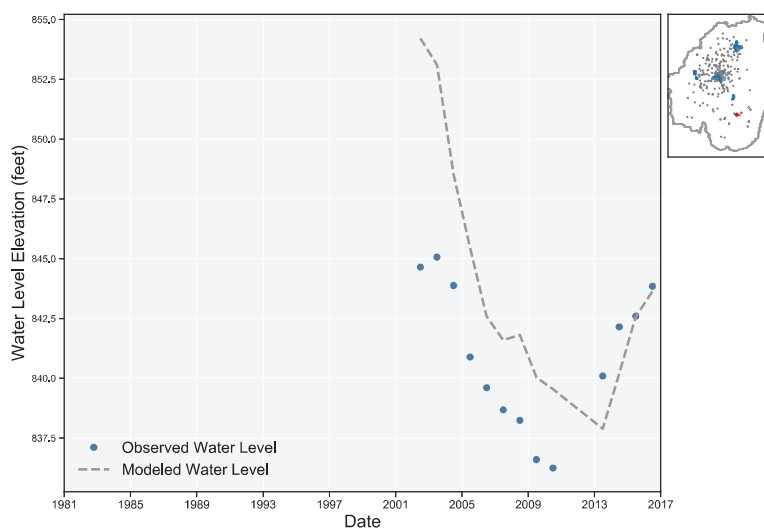
Well 82041 - Aq: OPDC Layers: 6 - 6



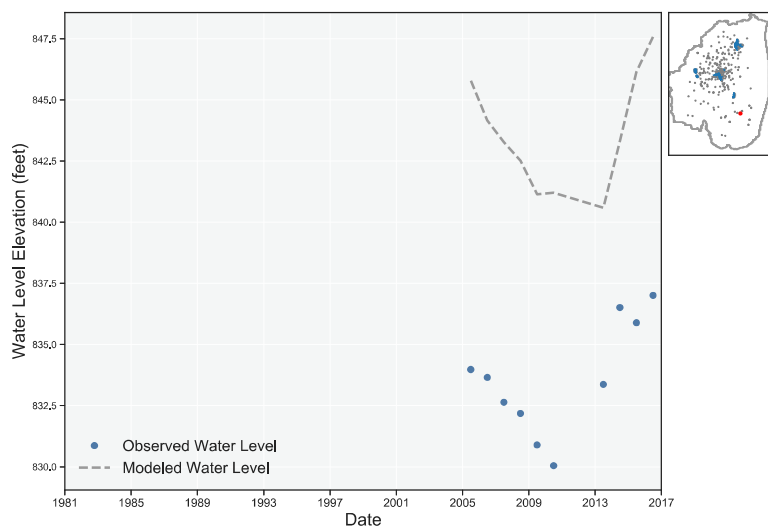
Well 675585 - Aq: OPDC Layers: 6 - 6



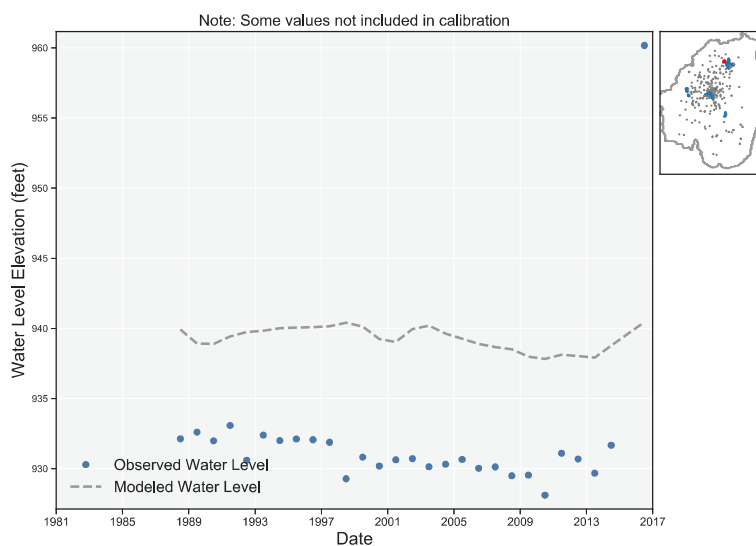
Well 675582 - Aq: OPDC Layers: 6 - 6



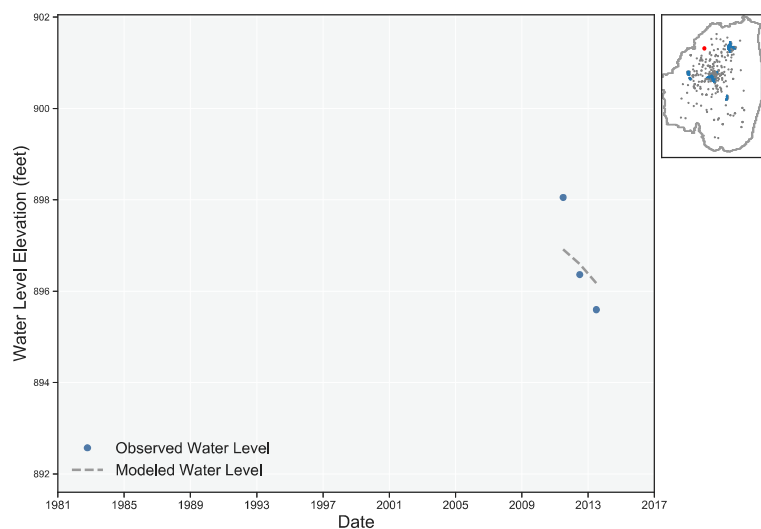
Well 727706 - Aq: OPDC Layers: 6 - 6



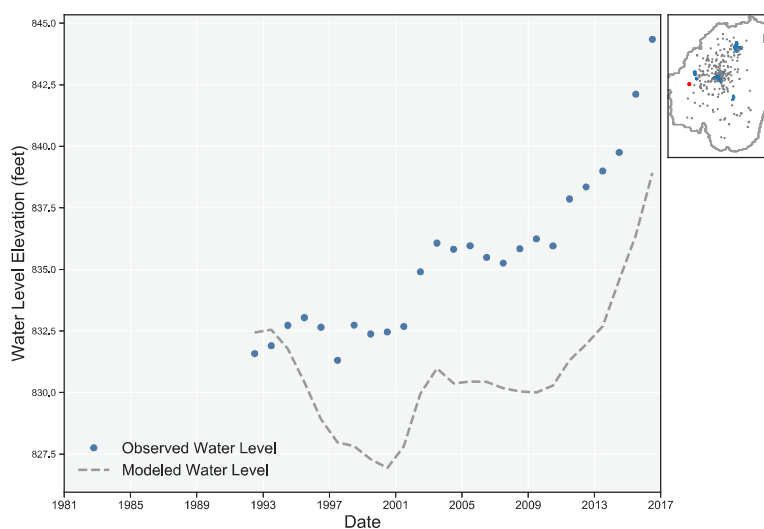
Well 82030 - Aq: OPDCCJDN Layers: 6 - 7



Well 136792 - Aq: OPCJ Layers: 6 - 7

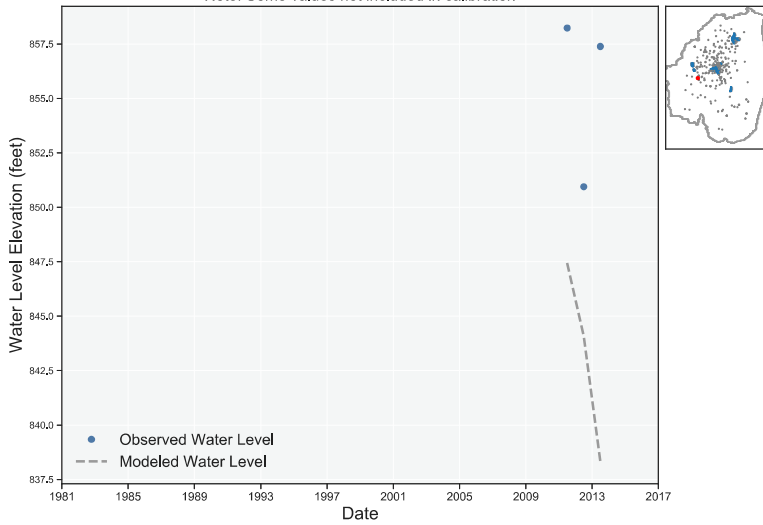


Well 62037 - Aq: OPDCCJDN Layers: 6 - 7



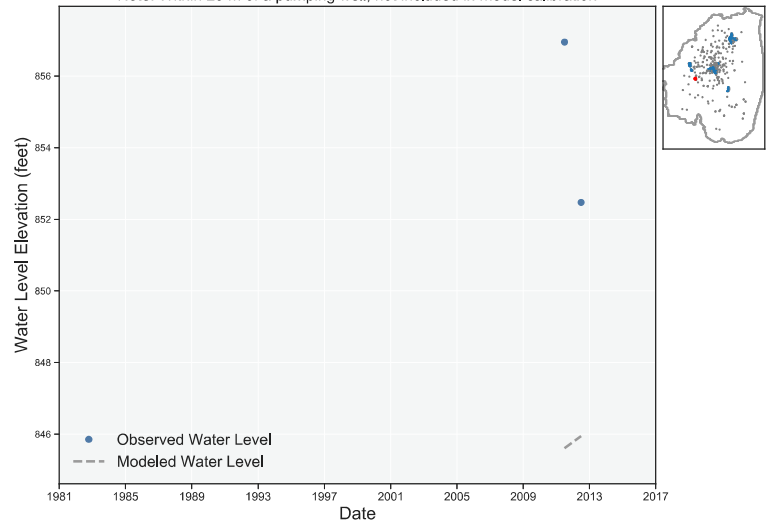
Well 151579 - Aq: OPCJ Layers: 6 - 7

Note: This is a pumping well (1977-6229, installation E) but was not pumped in 2011 or 2012.
Note: Some values not included in calibration

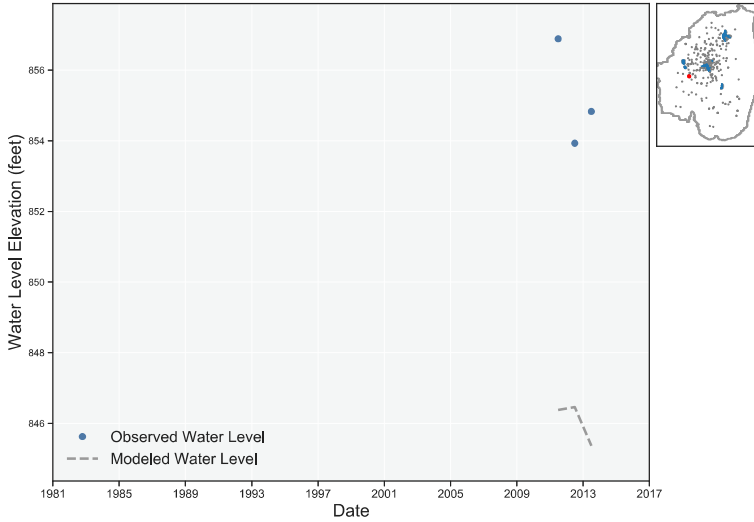


Well 706802 - Aq: OPCJ Layers: 6 - 7

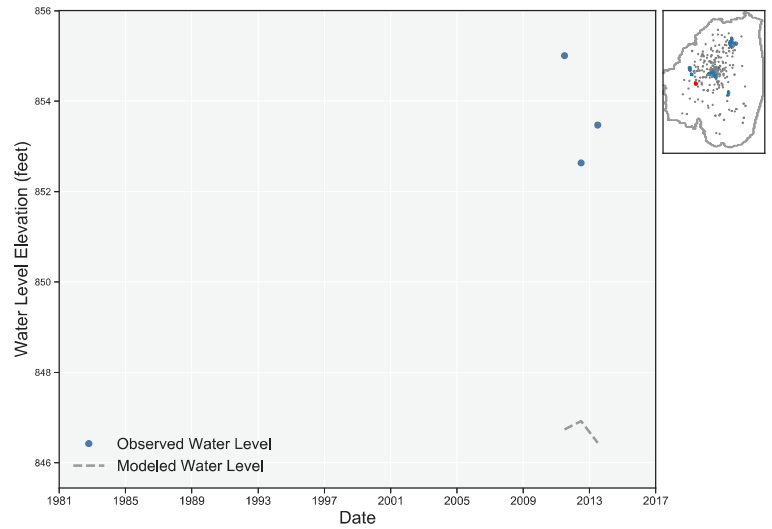
Note: Within 25 m of a pumping well, not included in model calibration



Well 753666 - Aq: OPCJ Layers: 6 - 7

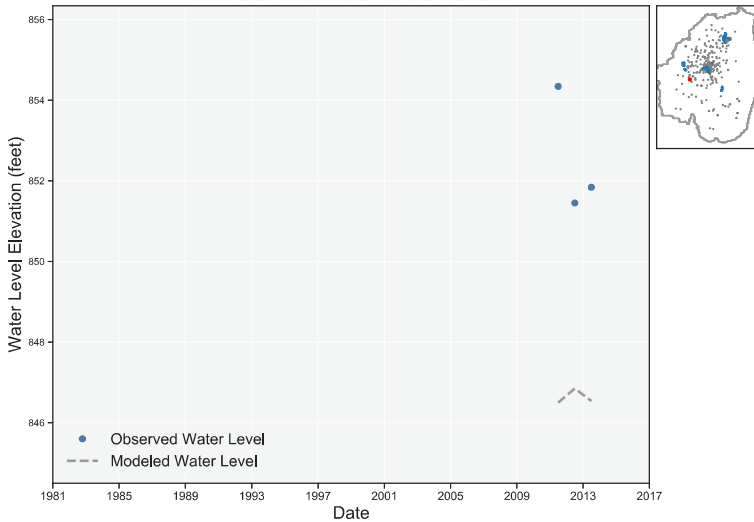


Well 753667 - Aq: OPCJ Layers: 6 - 7



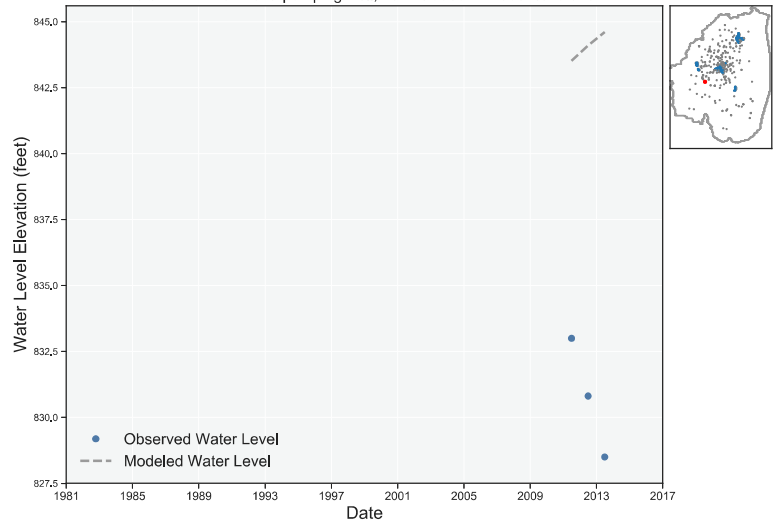
Well 759568 - Aq: OPCJ Layers: 6 - 7

Note: Some values not included in calibration

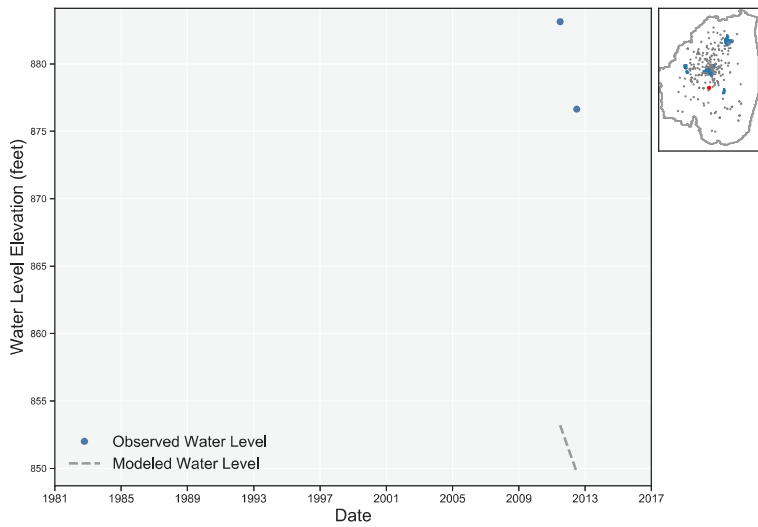


Well 759569 - Aq: OPCJ Layers: 6 - 7

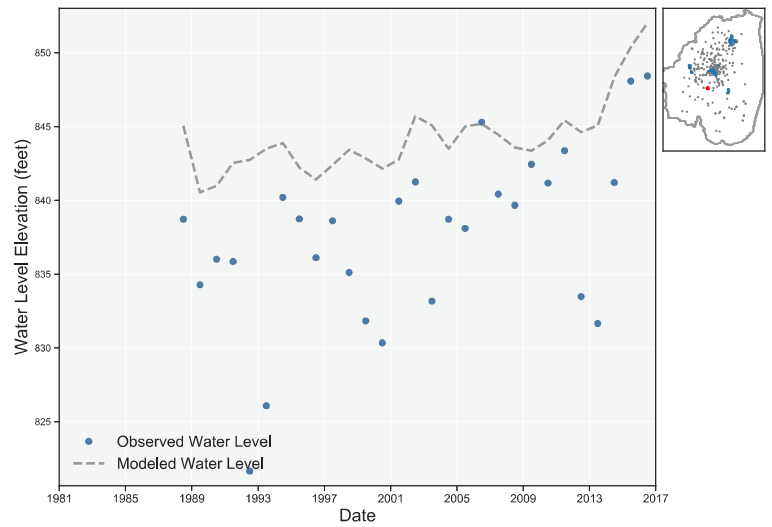
Note: Within 25 m of a pumping well, not included in model calibration



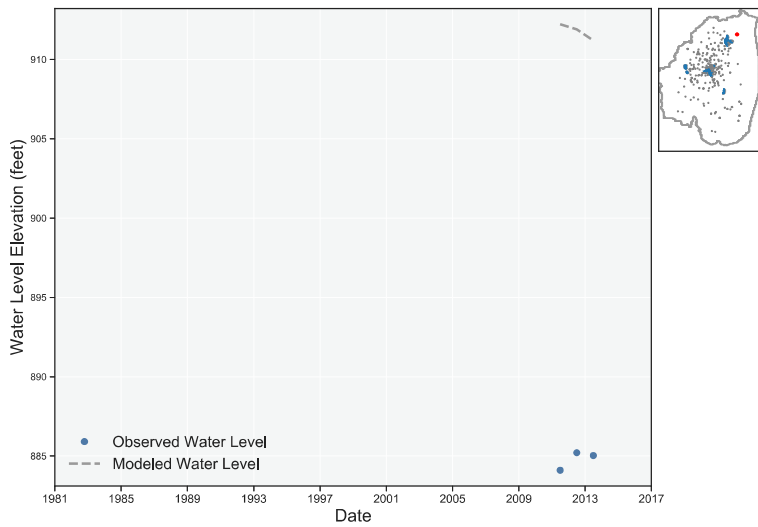
Well 686293 - Aq: OPCJ Layers: 6 - 7



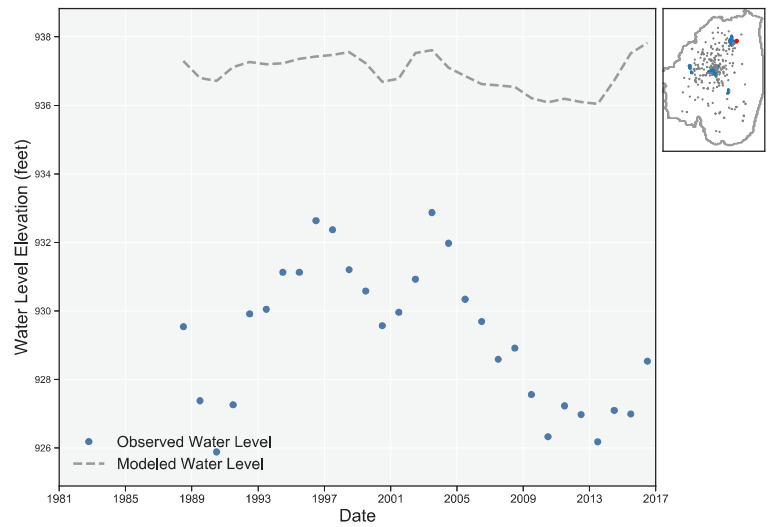
Well 62009 - Aq: OPDCCJDN Layers: 6 - 7



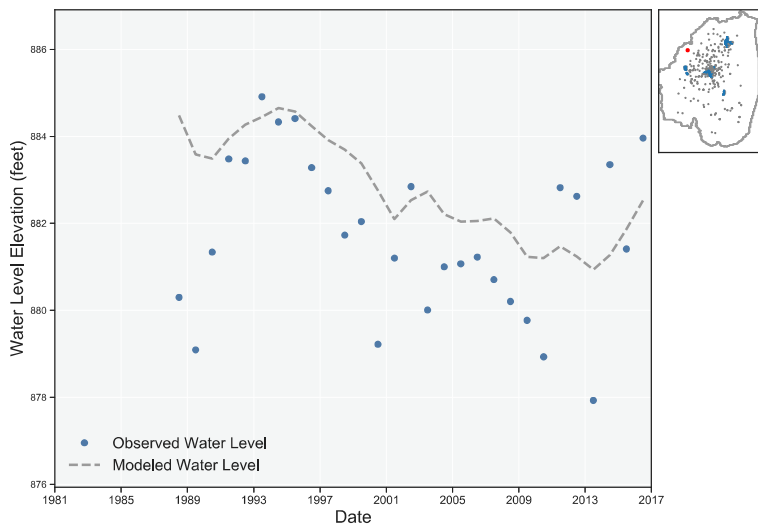
Well 517015 - Aq: OPCJ Layers: 7 - 7



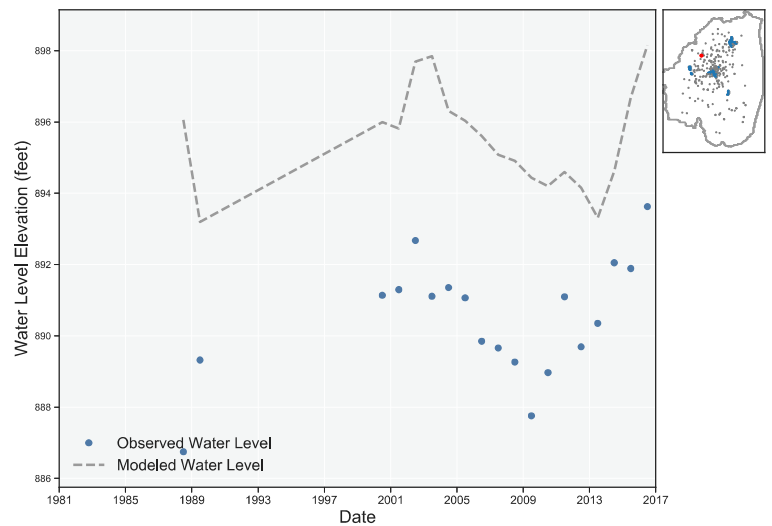
Well 82031 - Aq: CJDN Layers: 7 - 7



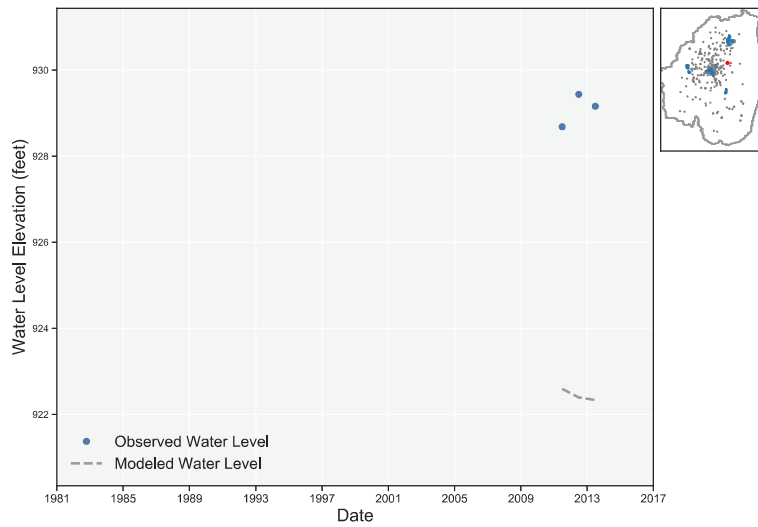
Well 2008 - Aq: QBAA Layers: 7 - 7



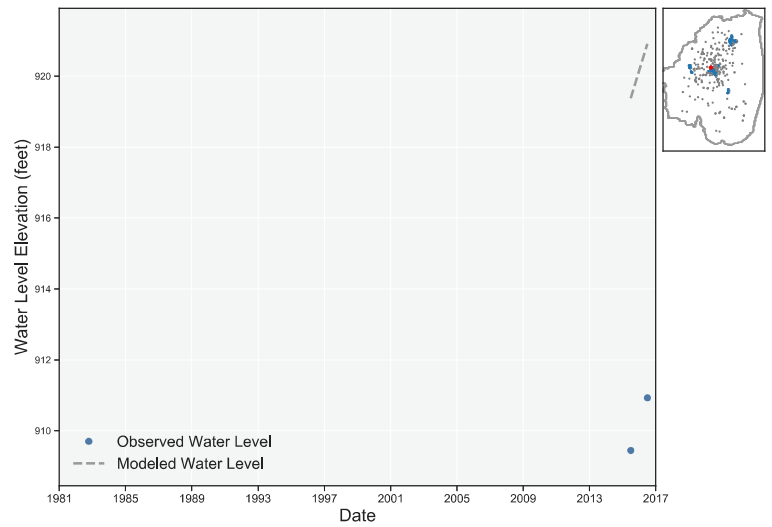
Well 1212 - Aq: CJDN Layers: 7 - 7



Well 409004 - Aq: OSTP Layers: 7 - 7

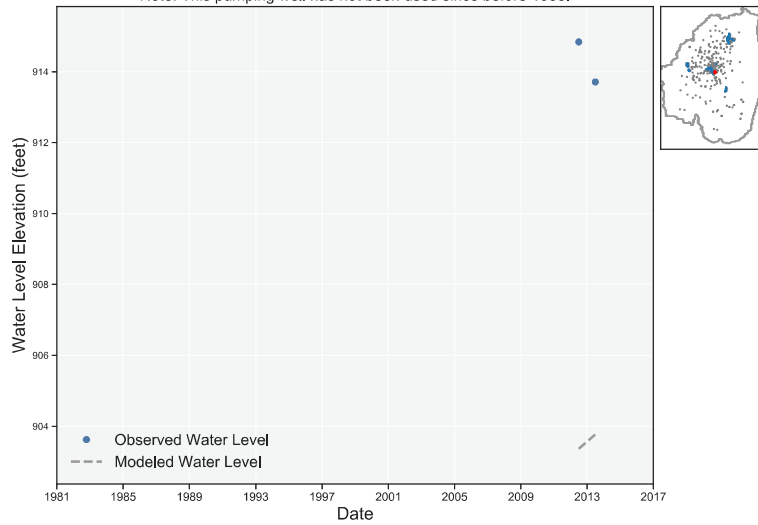


Well 62054 - Aq: OPDC Layers: 7 - 7



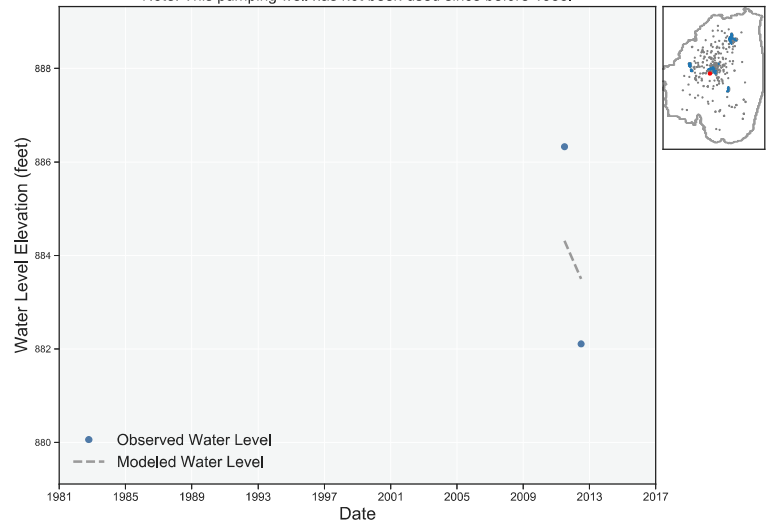
Well 208506 - Aq: CJDN Layers: 7 - 7

Note: This pumping well has not been used since before 1988.

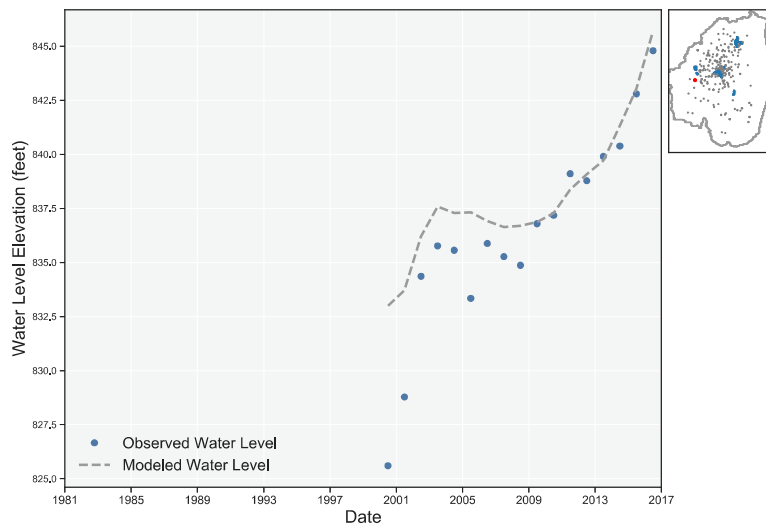


Well 226567 - Aq: CJSL Layers: 7 - 7

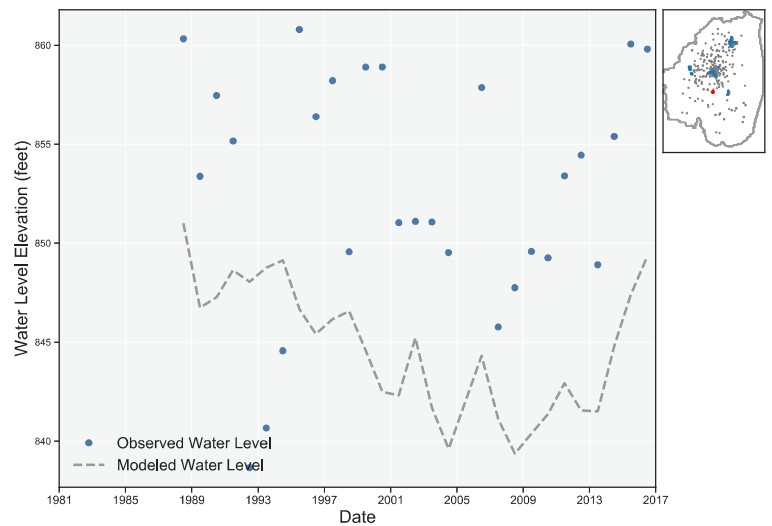
Note: This pumping well has not been used since before 1988.



Well 62030 - Aq: CJDN Layers: 7 - 7

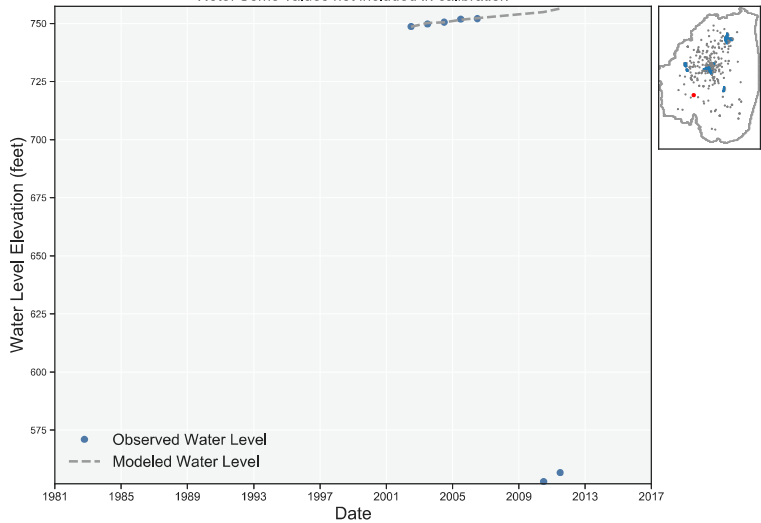


Well 62001 - Aq: CJDN Layers: 7 - 7

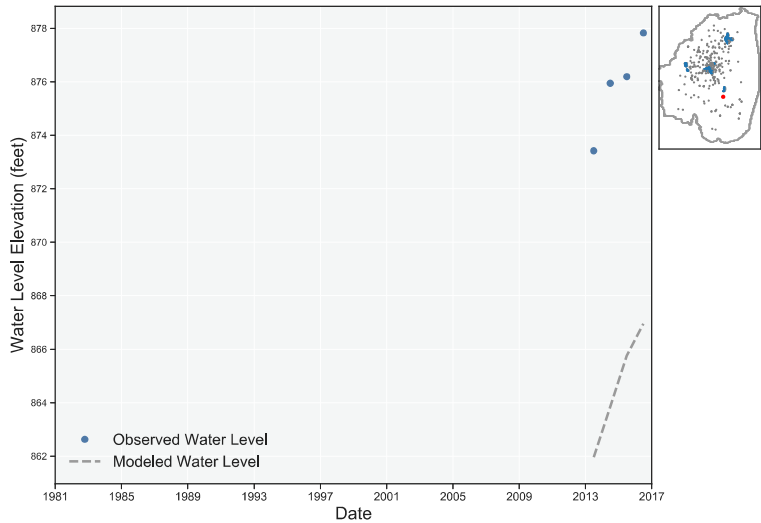


Well 62049 - Aq: CJDN Layers: 7 - 7

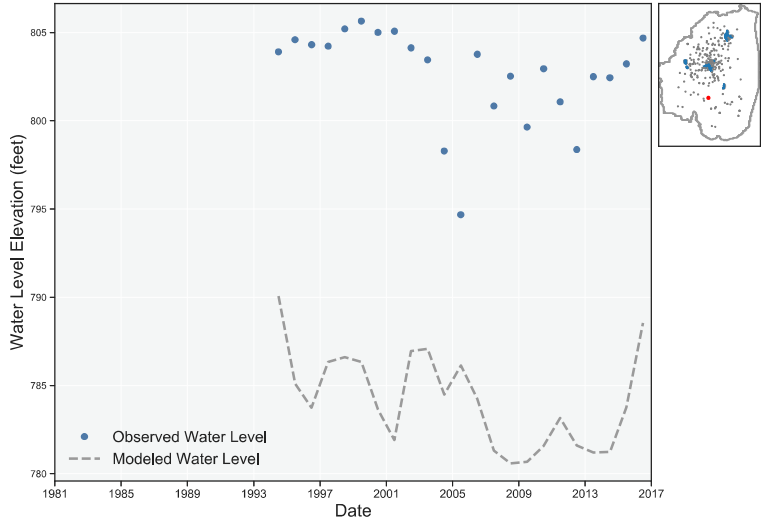
Note: Some values not included in calibration



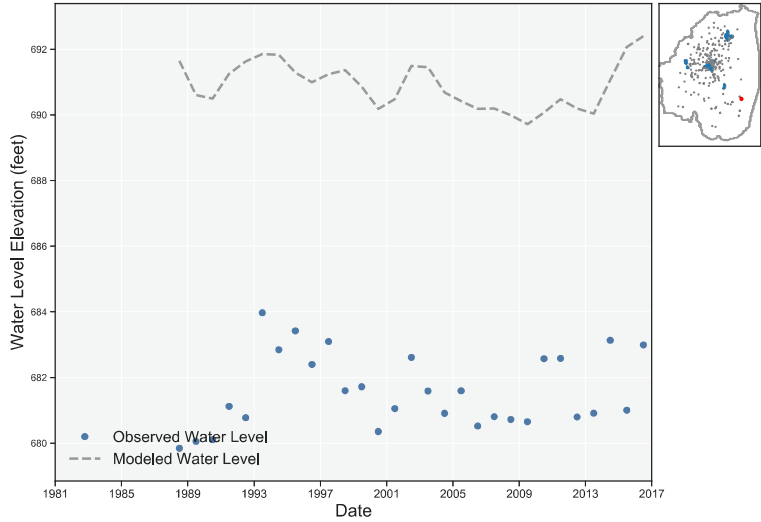
Well 82058 - Aq: QBAA Layers: 7 - 7



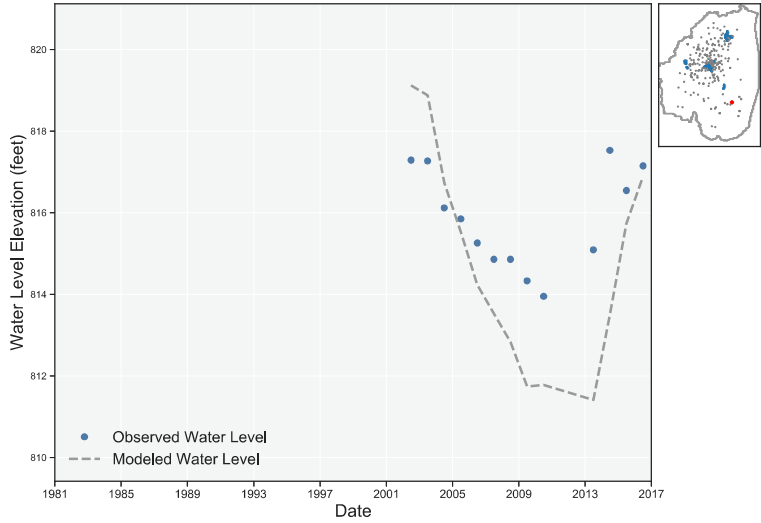
Well 62040 - Aq: CJDN Layers: 7 - 7



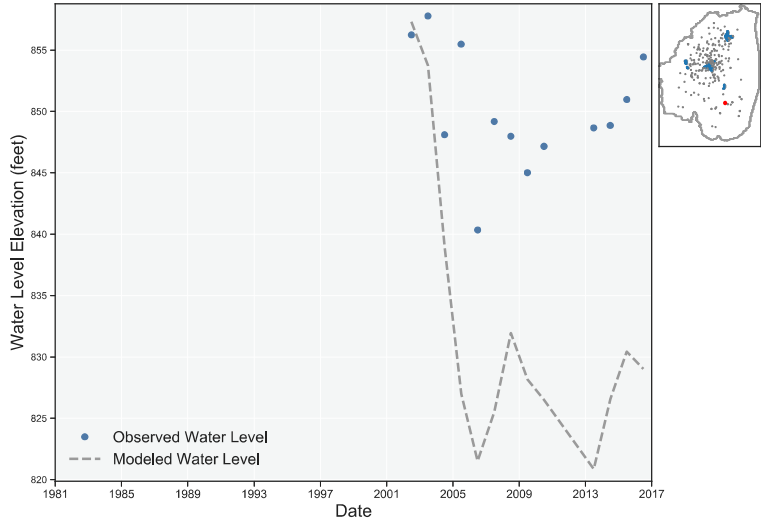
Well 82011 - Aq: CECR Layers: 7 - 7



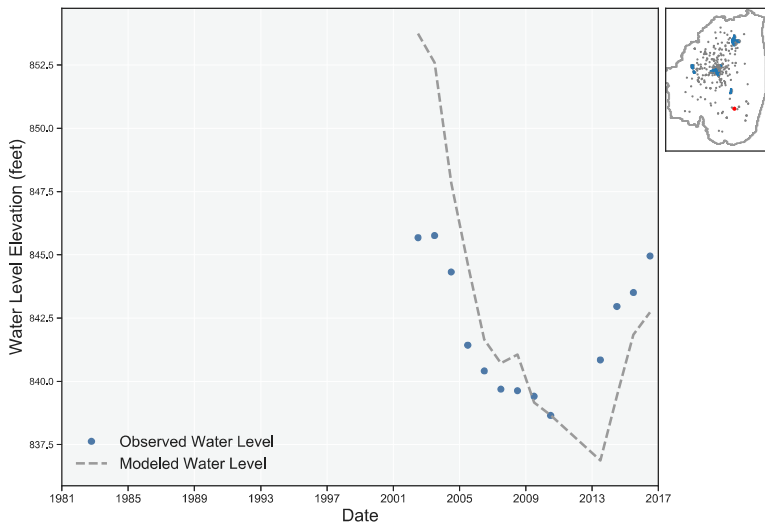
Well 675584 - Aq: CJDN Layers: 7 - 7



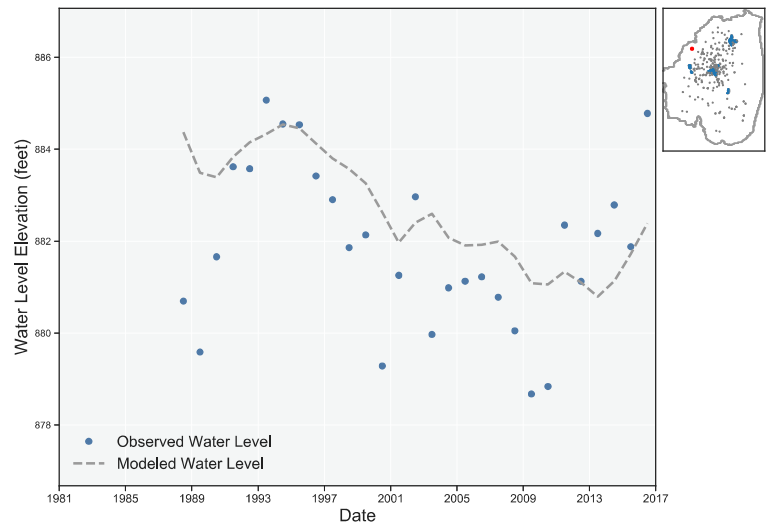
Well 675580 - Aq: CJDN Layers: 7 - 7



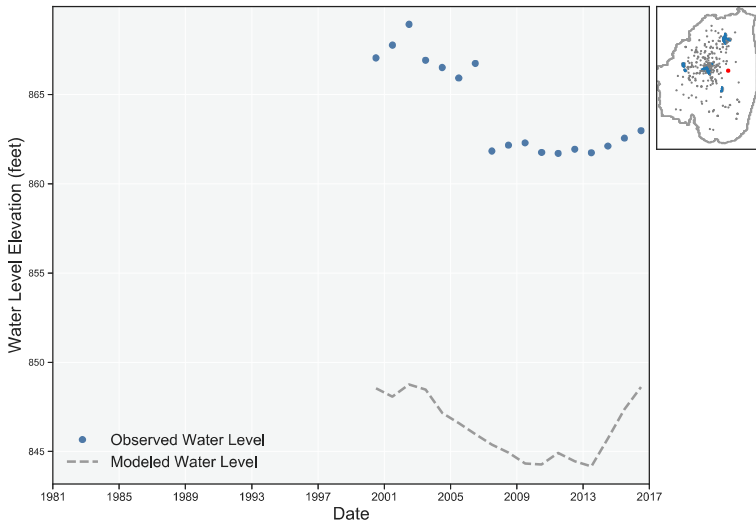
Well 675583 - Aq: CJDN Layers: 7 - 7



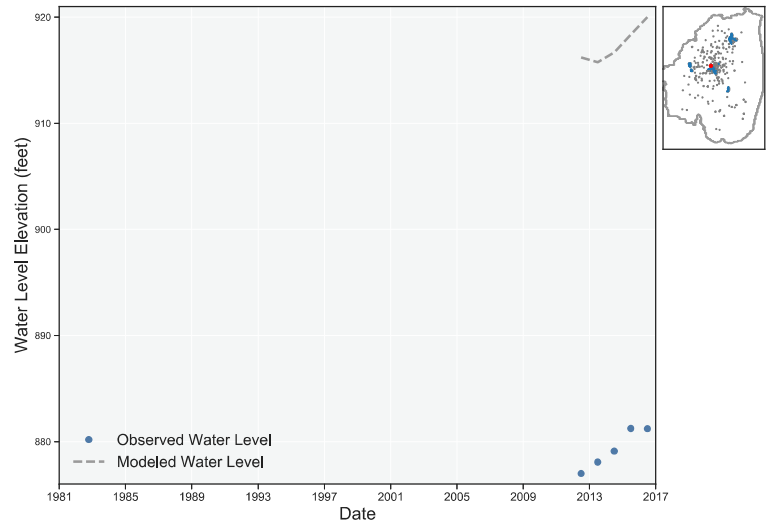
Well 2007 - Aq: QBAA Layers: 8 - 8



Well 82047 - Aq: CTCG Layers: 9 - 9

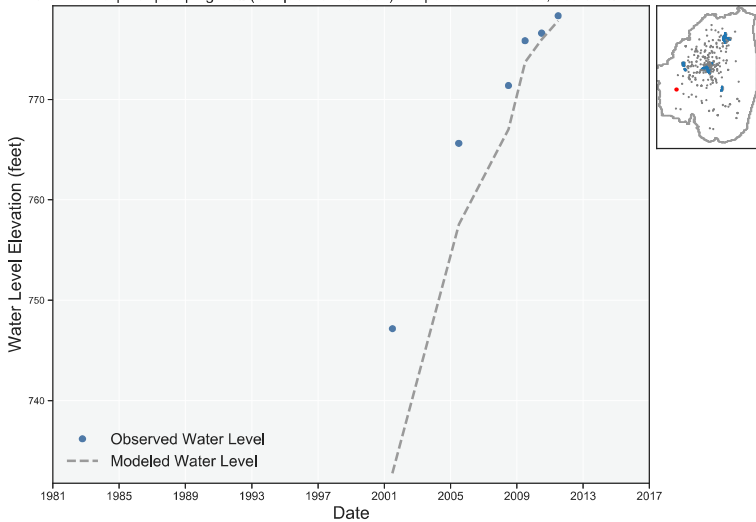


Well 62052 - Aq: CTCW Layers: 9 - 10



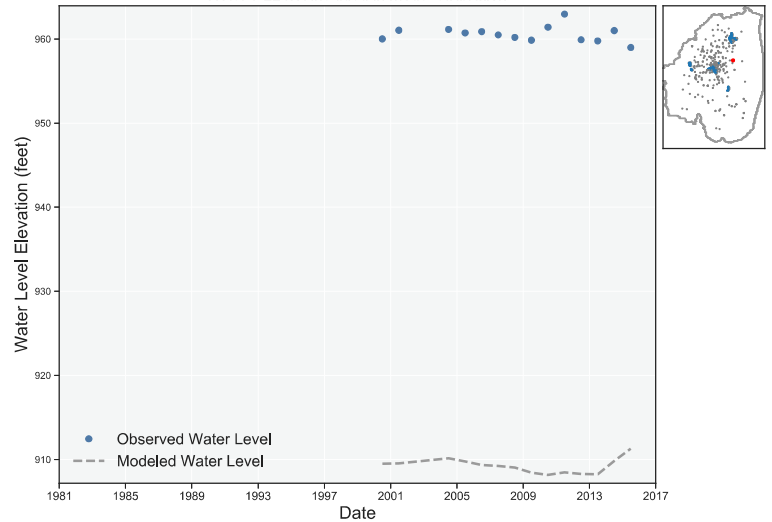
Well 62041 - Aq: CIGL Layers: 10 - 10

Note: Multi-aquifer pumping well (Unique No. 135502) not pumed after 1991, sealed 8/29/2014.

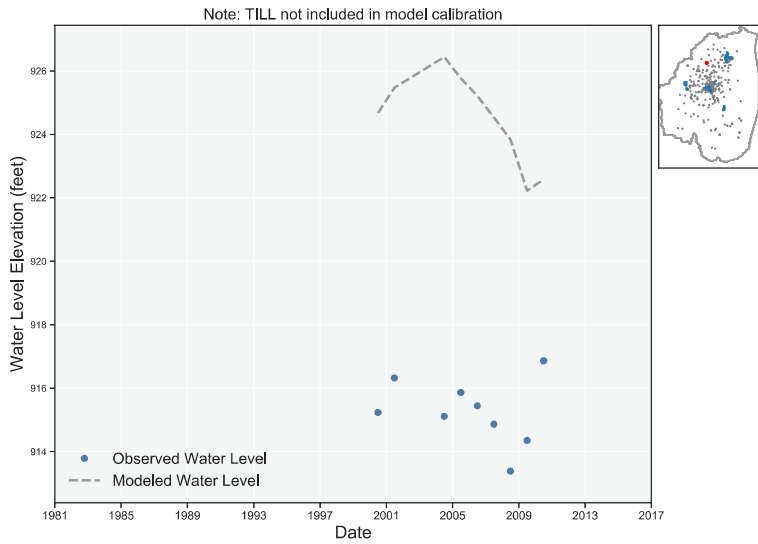


Well 82043 - Aq: TILL Layers: 1 - 1

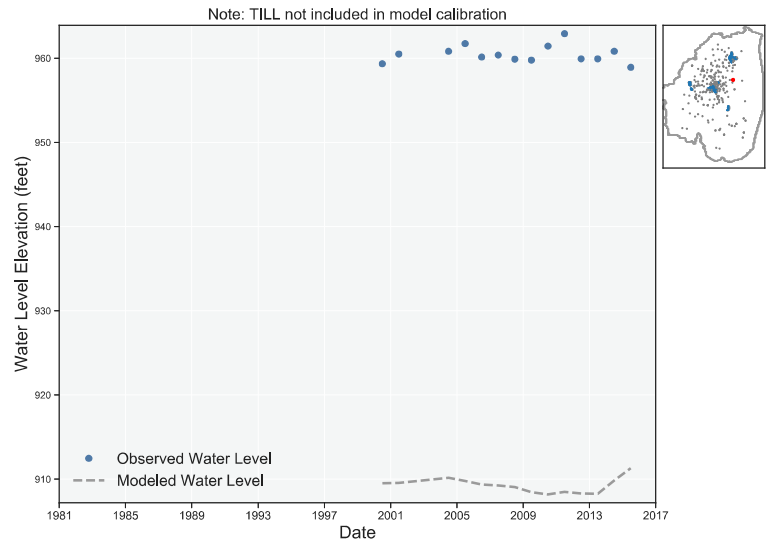
Note: TILL not included in model calibration



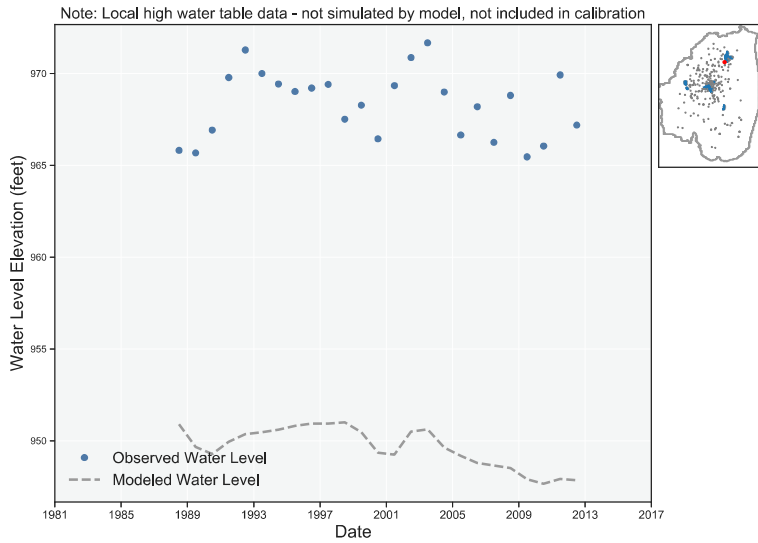
Well 82044 - Aq: TILL Layers: 2 - 2



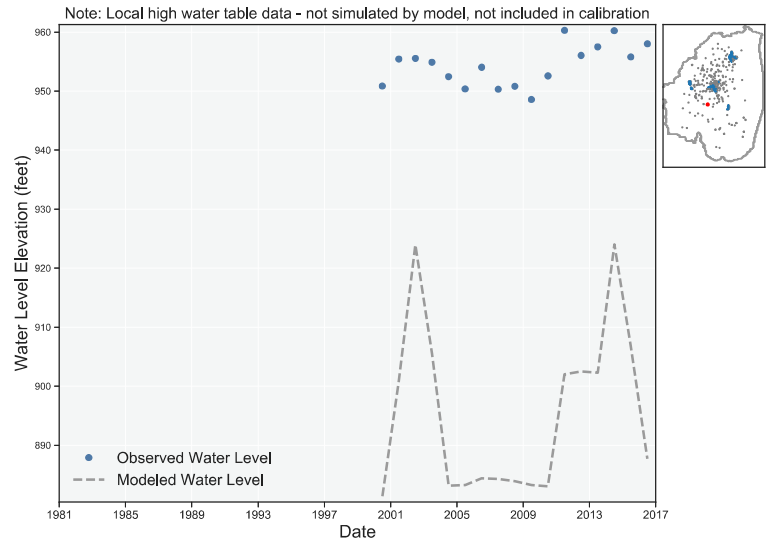
Well 82042 - Aq: TILL Layers: 3 - 3



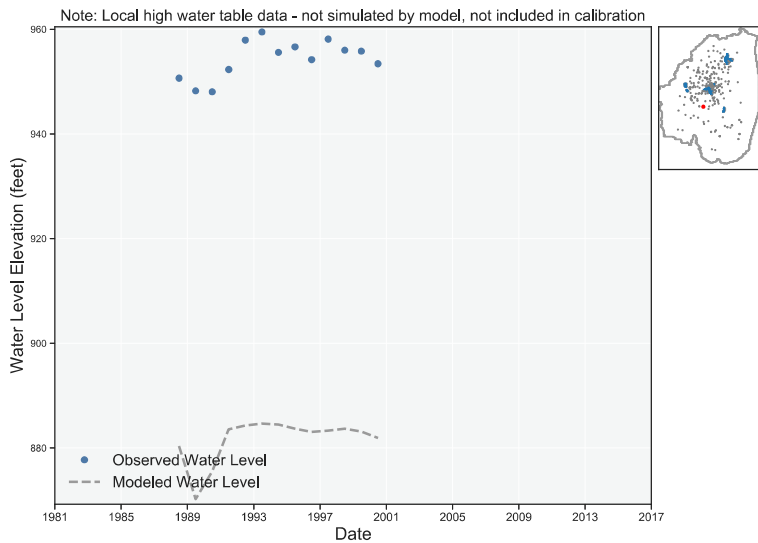
Well 82037 - Aq: QWTA Layers: 4 - 4



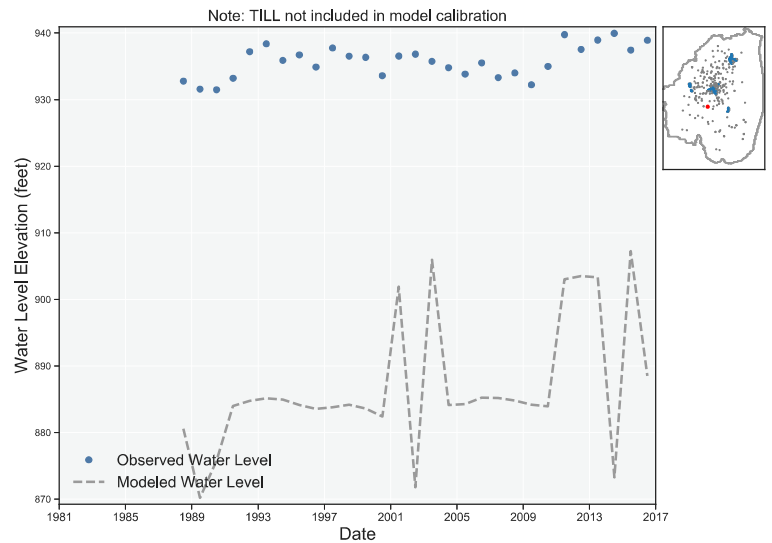
Well 62048 - Aq: QWTA Layers: 4 - 4



Well 62011 - Aq: QBAA Layers: 4 - 4

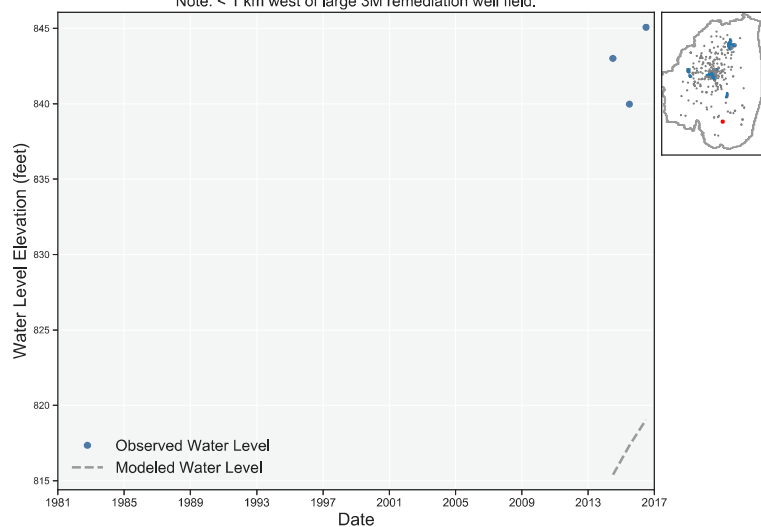


Well 62010 - Aq: TILL Layers: 4 - 4



Well 82062 - Aq: QWTA Layers: 4 - 4

Note: < 1 km west of large 3M remediation well field.



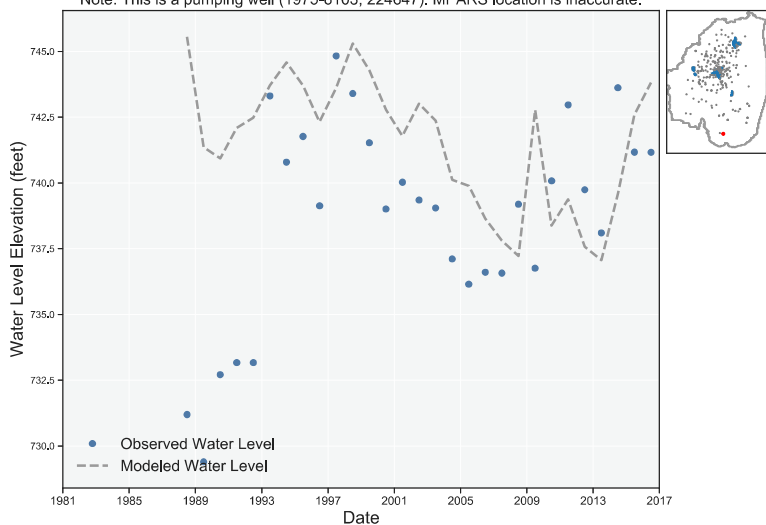
Well 82045 - Aq: CFRNCIGL Layers: 4 - 6

Note: Simulated too low; other wells in vicinity more reasonable, not included in calibration



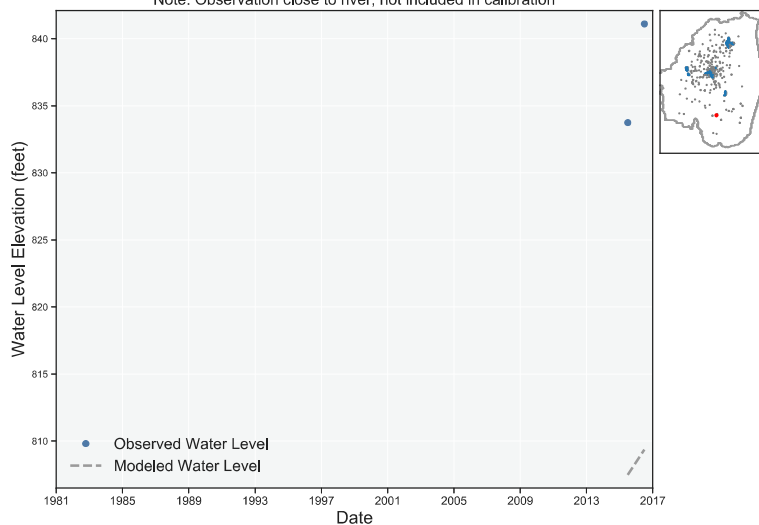
Well 82016 - Aq: OPDCCJDN Layers: 5 - 8

Note: This is a pumping well (1975-6103, 224647). MPARS location is inaccurate.



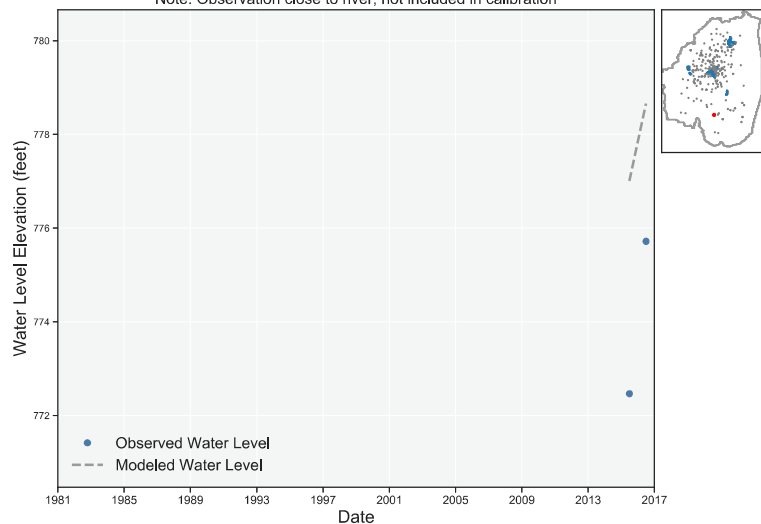
Well 767883 - Aq: OPDC Layers: 6 - 6

Note: Observation close to river, not included in calibration



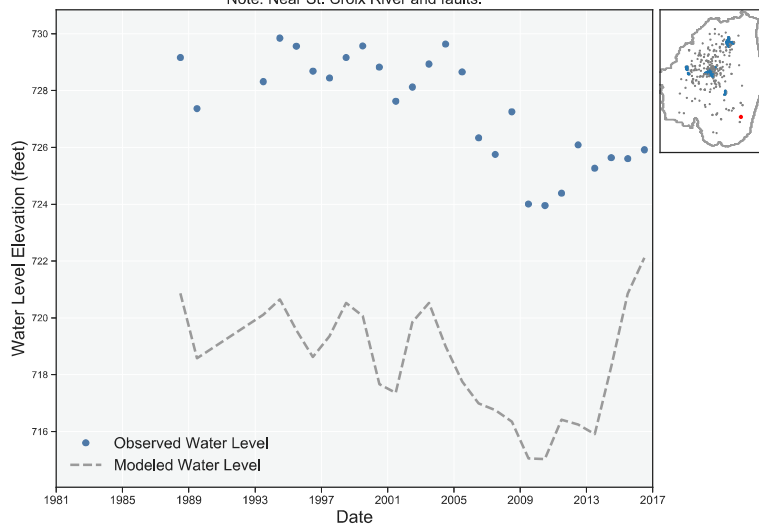
Well 767882 - Aq: OPDC Layers: 6 - 6

Note: Observation close to river, not included in calibration



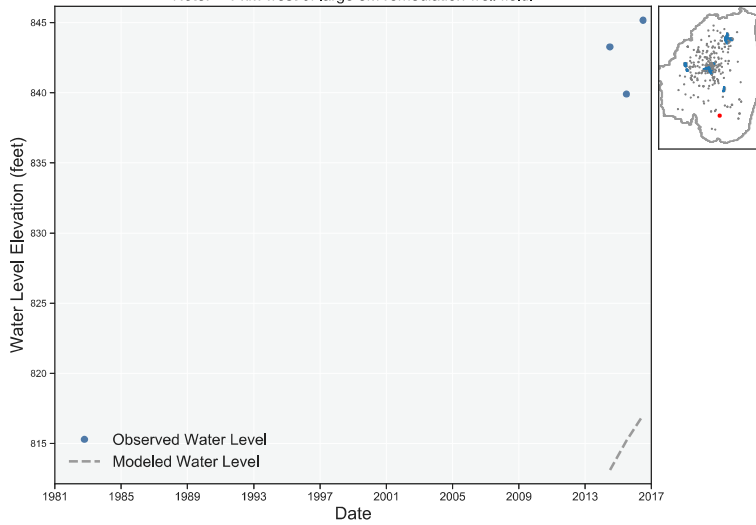
Well 82012 - Aq: CSTL Layers: 6 - 6

Note: Near St. Croix River and faults.



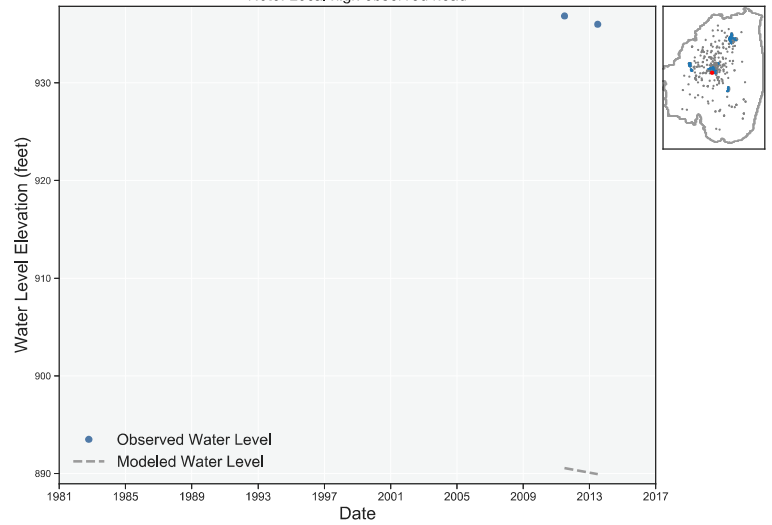
Well 82061 - Aq: OPDC Layers: 6 - 6

Note: < 1 km west of large 3M remediation well field.



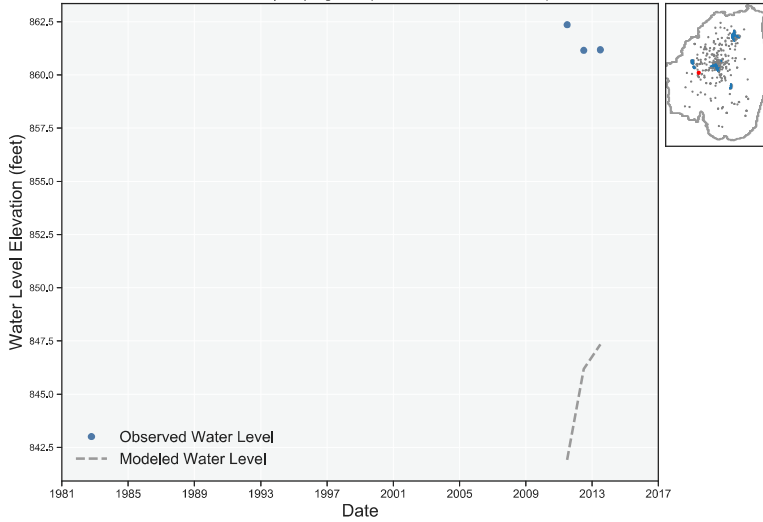
Well 226572 - Aq: OPCJ Layers: 6 - 7

Note: Local high observed head



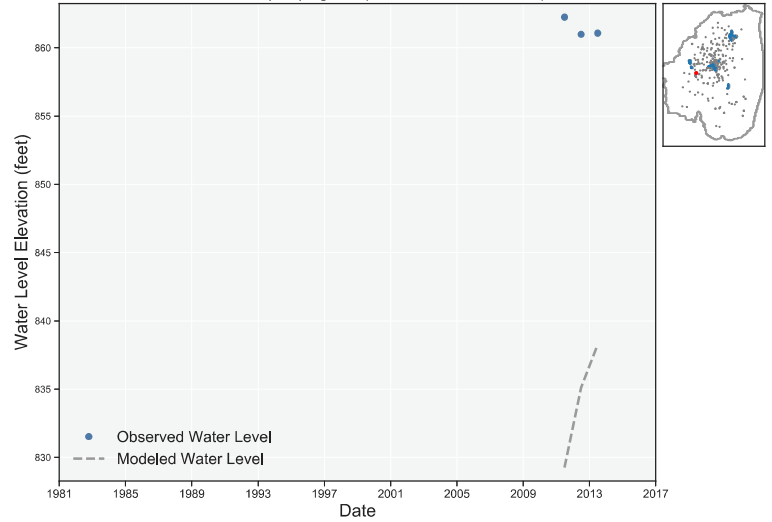
Well 127292 - Aq: OPCJ Layers: 6 - 7

Note: This is a pumping well (1977-6229, installation C)



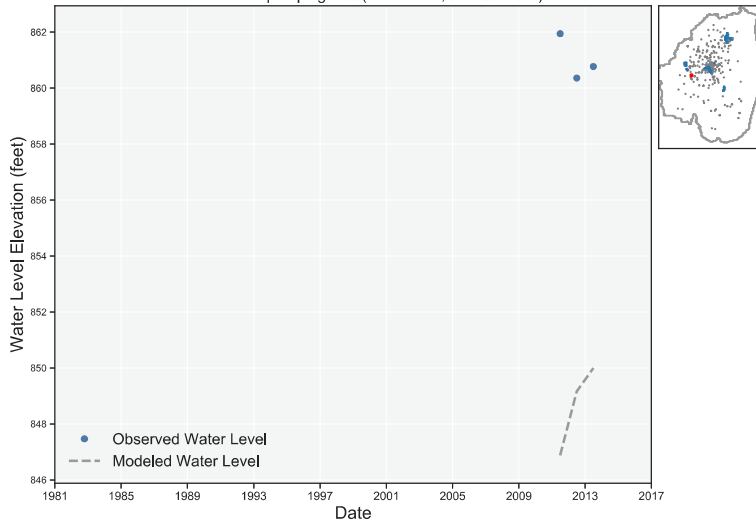
Well 151583 - Aq: OPCJ Layers: 6 - 7

Note: This is a pumping well (1977-6229, installation D).



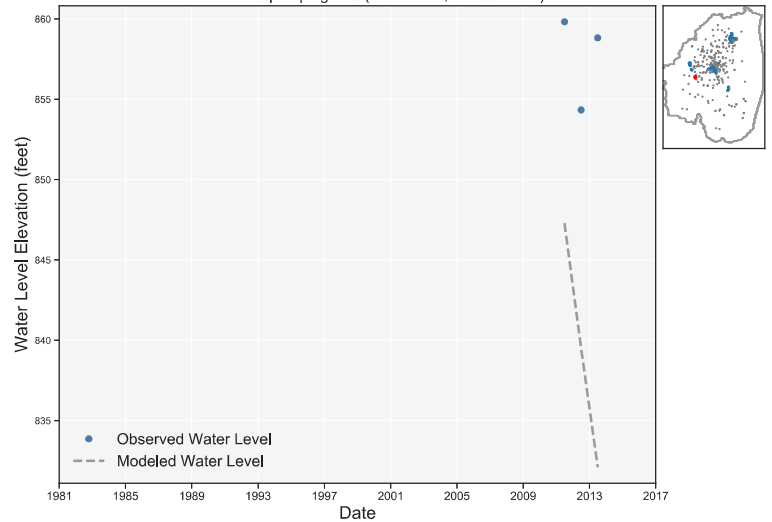
Well 133312 - Aq: OPCJ Layers: 6 - 7

Note: This is a pumping well (1977-6229, installation B)

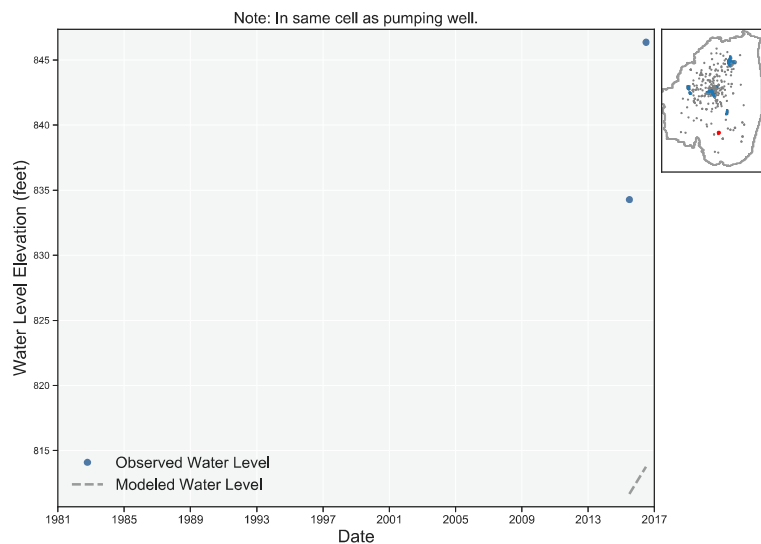


Well 706803 - Aq: OPCJ Layers: 6 - 7

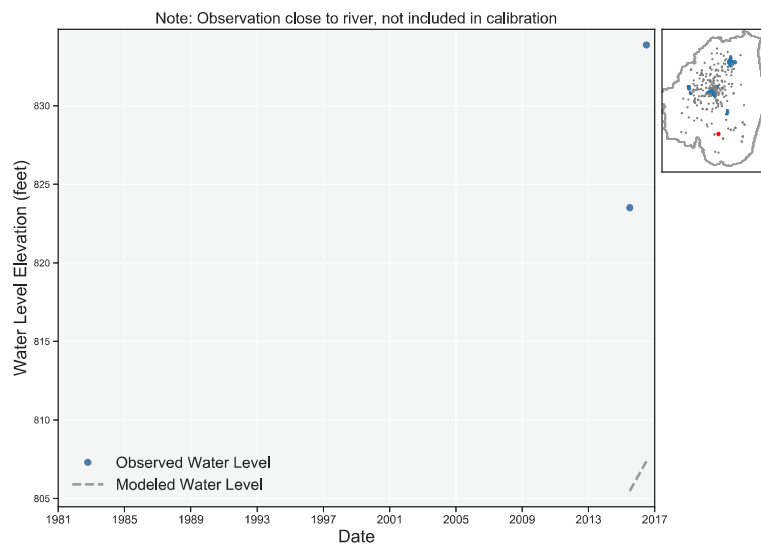
Note: This is a pumping well (1977-6229, installation F).



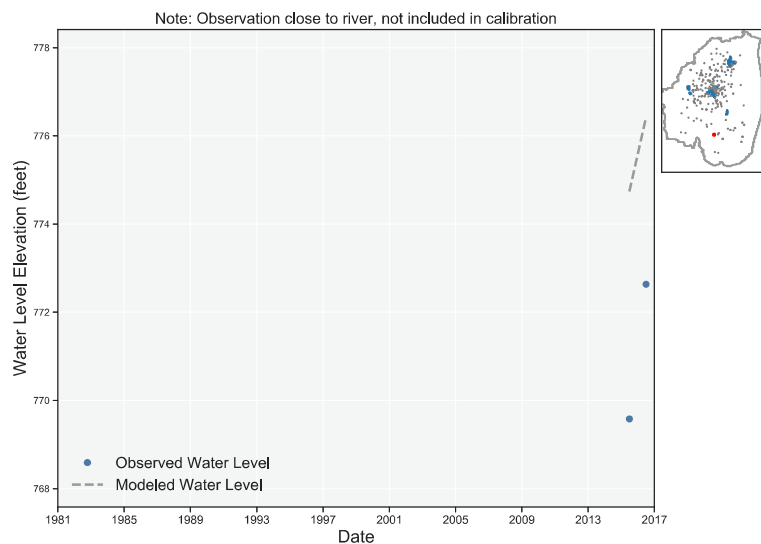
Well 763366 - Aq: CJDN Layers: 7 - 7



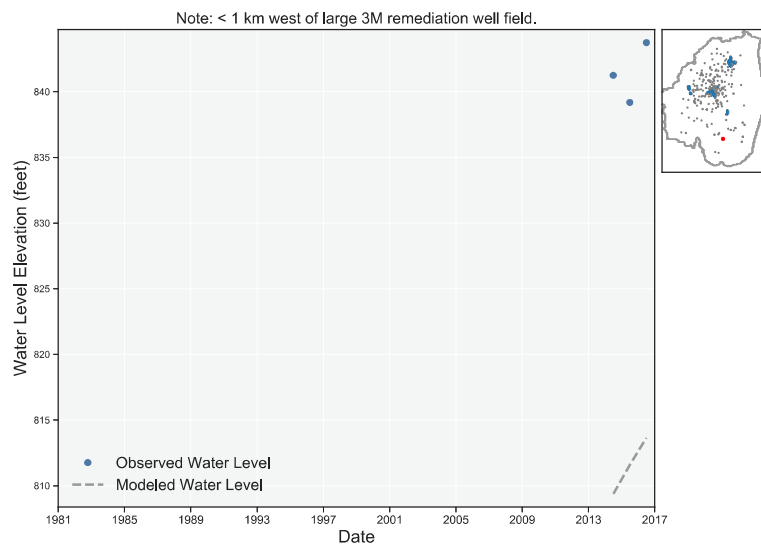
Well 767884 - Aq: CJDN Layers: 7 - 7



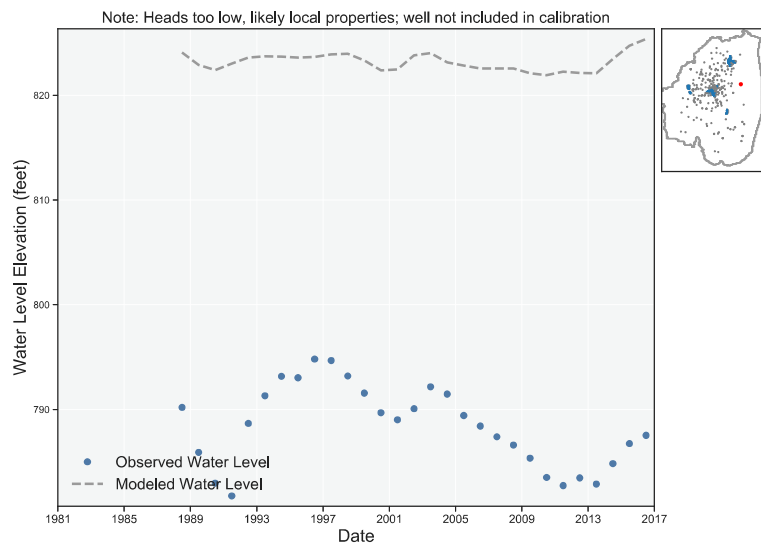
Well 767885 - Aq: CJDN Layers: 7 - 7



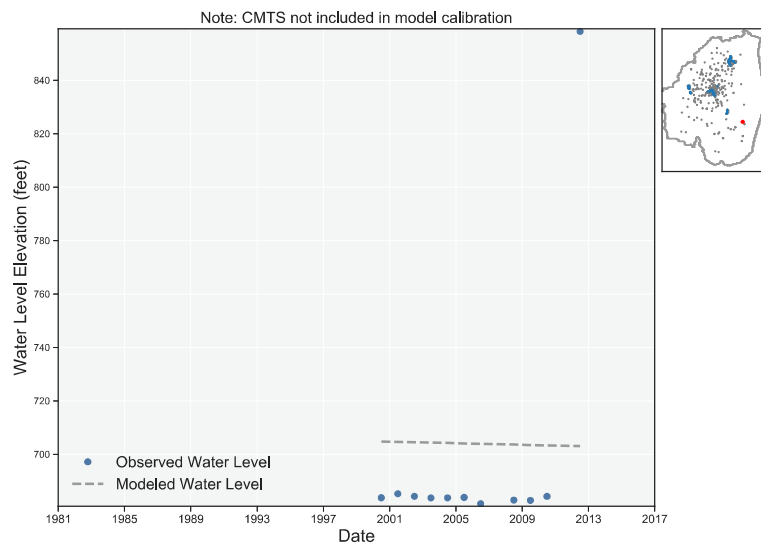
Well 82060 - Aq: CJDN Layers: 7 - 7



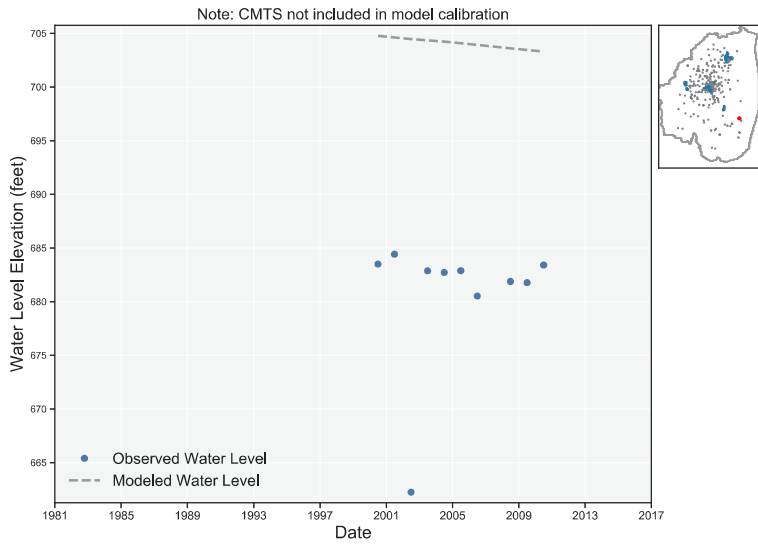
Well 82023 - Aq: QBAA Layers: 8 - 8



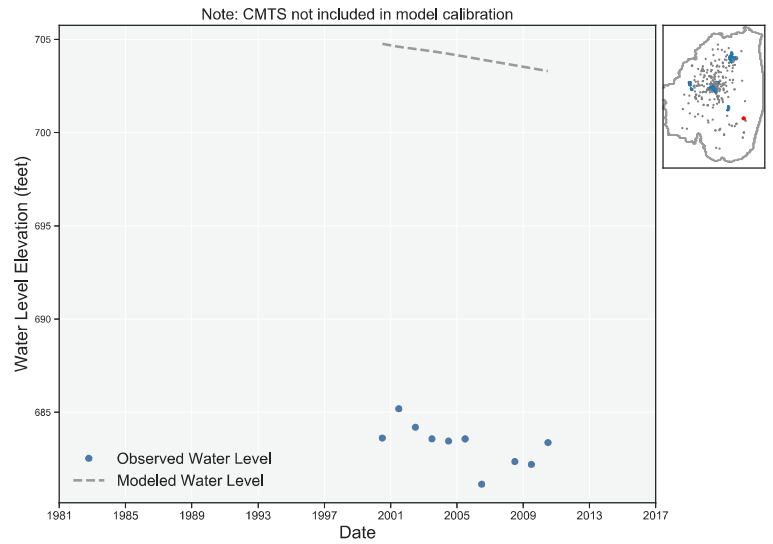
Well 82046 - Aq: CMTS Layers: 9 - 9



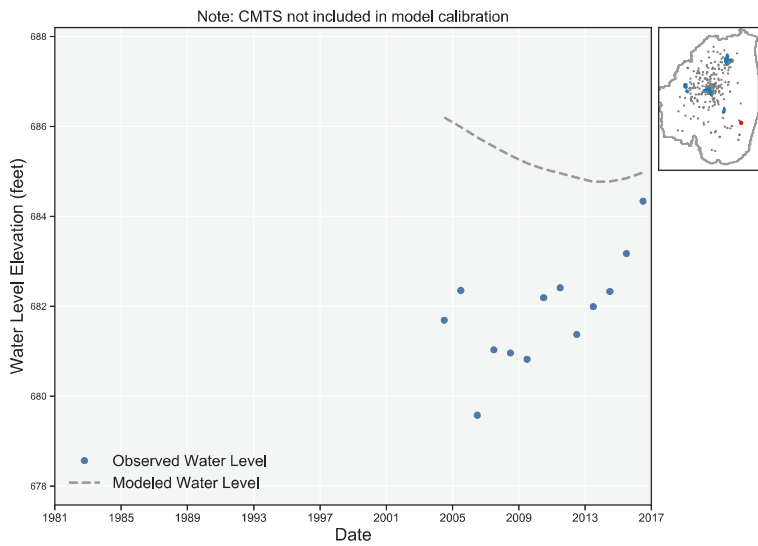
Well 82049 - Aq: CMTS Layers: 9 - 9



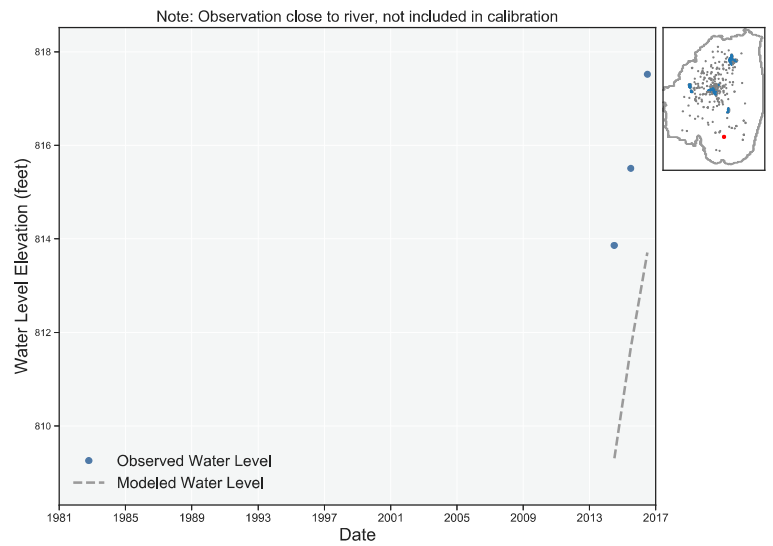
Well 82050 - Aq: CMTS Layers: 9 - 9



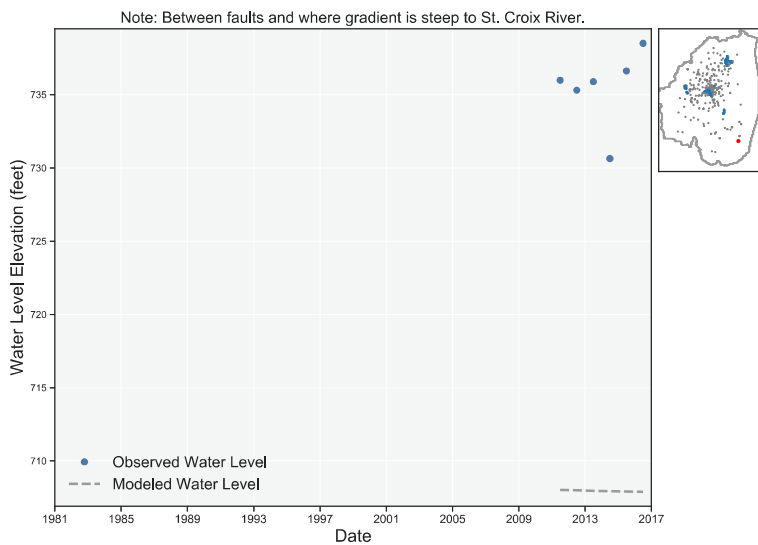
Well 82051 - Aq: CECRCMTS Layers: 9 - 9



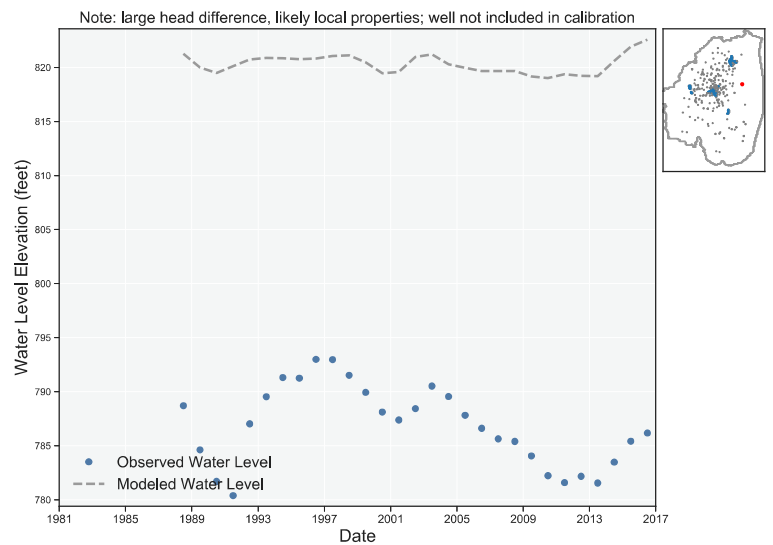
Well 82059 - Aq: CTCG Layers: 9 - 9



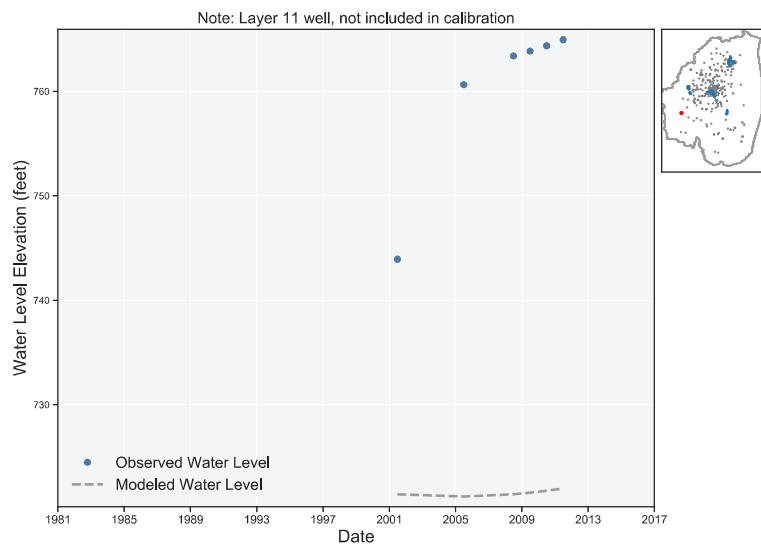
Well 82054 - Aq: CFG Layers: 9 - 9



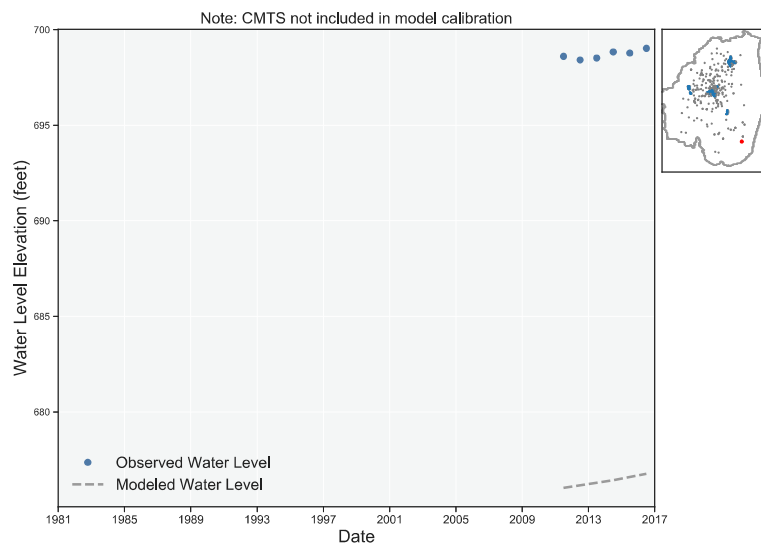
Well 82022 - Aq: CFRNCIGL Layers: 9 - 10



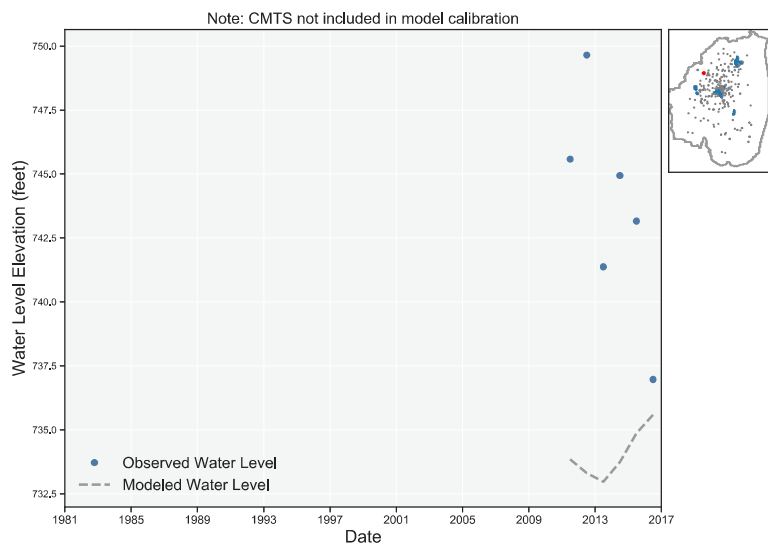
Well 62042 - Aq: CECR Layers: 11 - 11



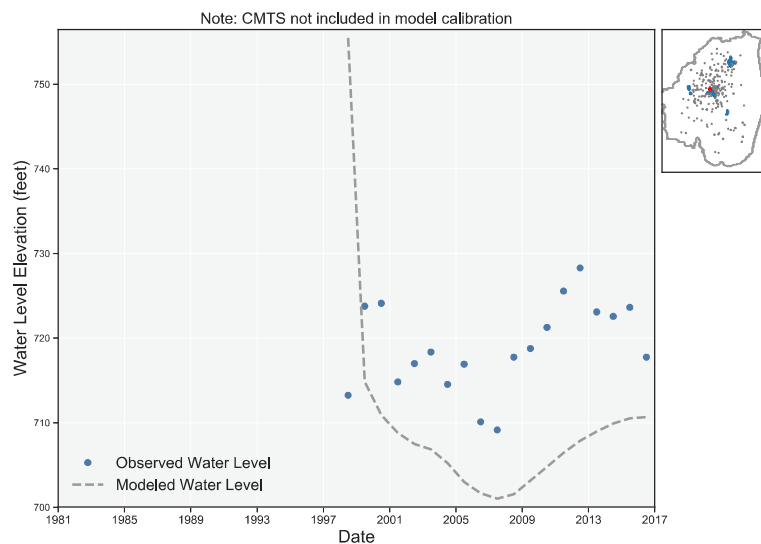
Well 82053 - Aq: CMTS Layers: 11 - 12



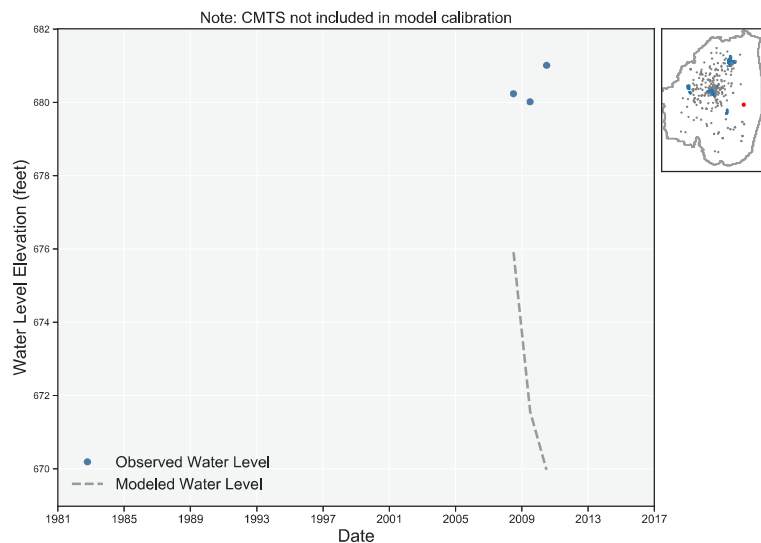
Well 2038 - Aq: CMTS Layers: 12 - 12



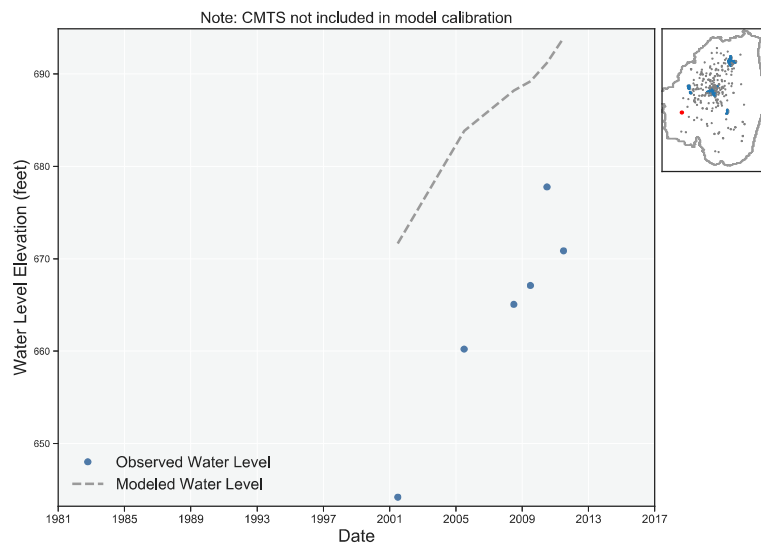
Well 62046 - Aq: CMTS Layers: 12 - 12



Well 82052 - Aq: CMTS Layers: 12 - 12

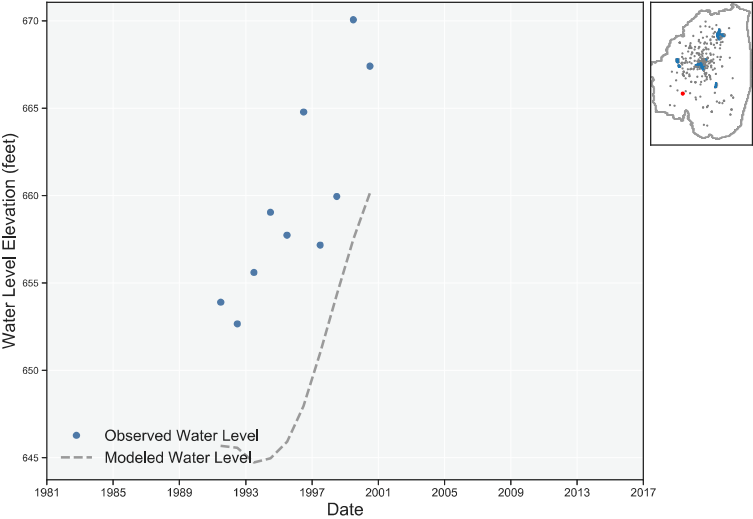


Well 62043 - Aq: CMTS Layers: 12 - 12



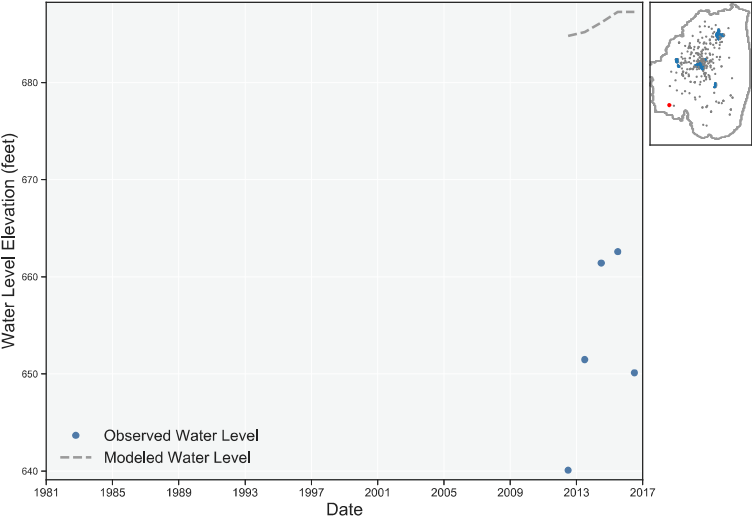
Well 62036 - Aq: CMTS Layers: 12 - 12

Note: CMTS not included in model calibration



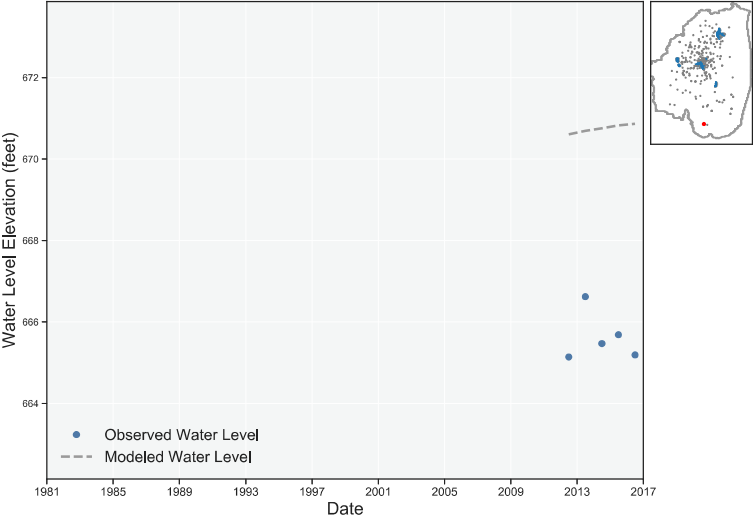
Well 27069 - Aq: CMTS Layers: 12 - 12

Note: CMTS not included in model calibration



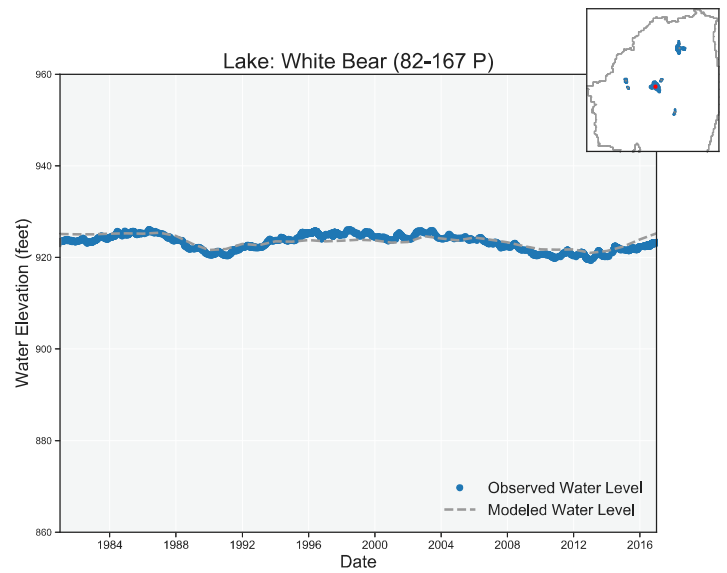
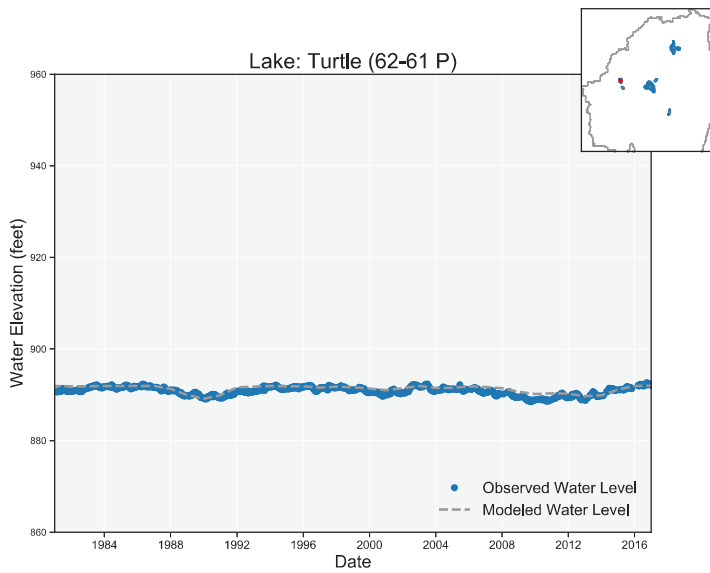
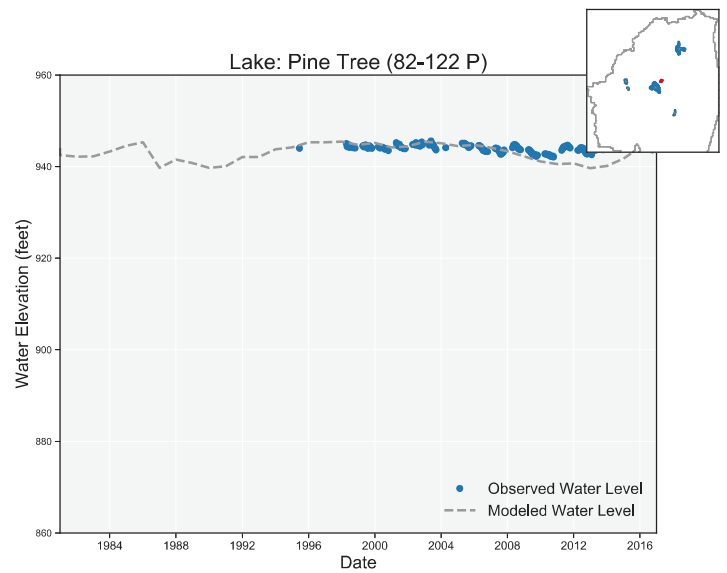
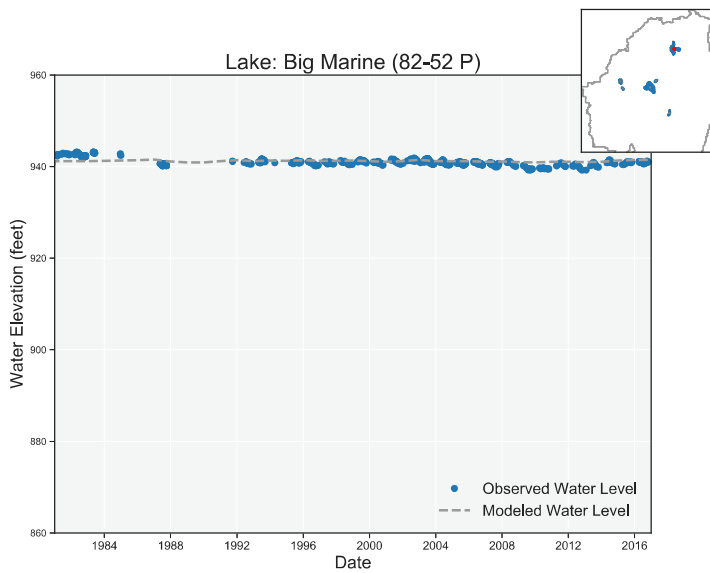
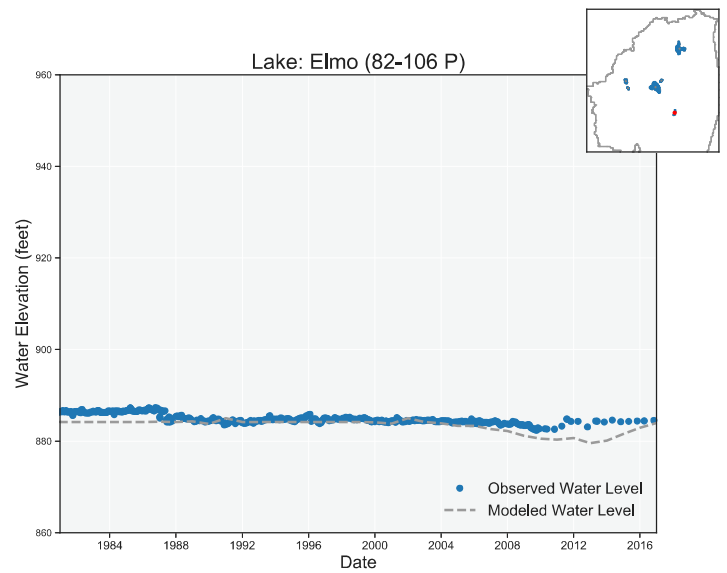
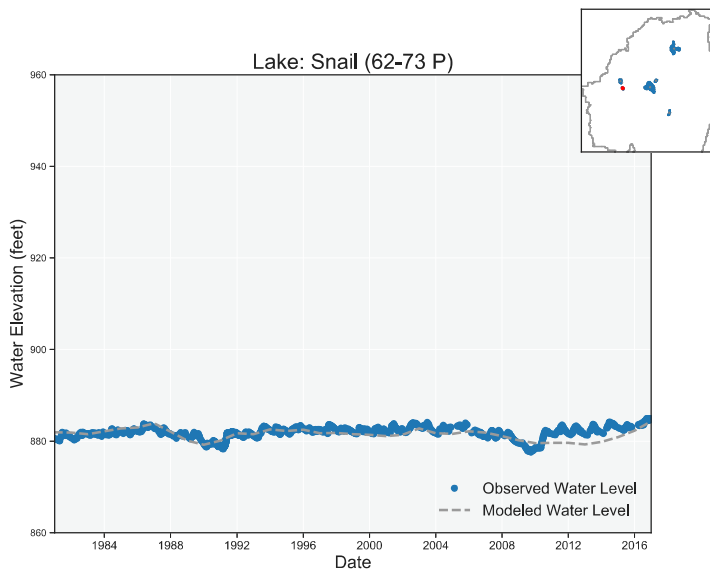
Well 82056 - Aq: CMTS Layers: 12 - 12

Note: CMTS not included in calibration

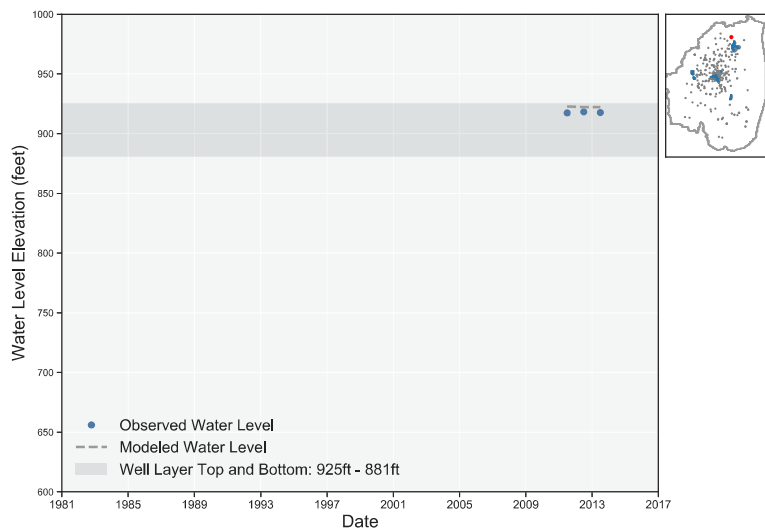


Appendix B-3

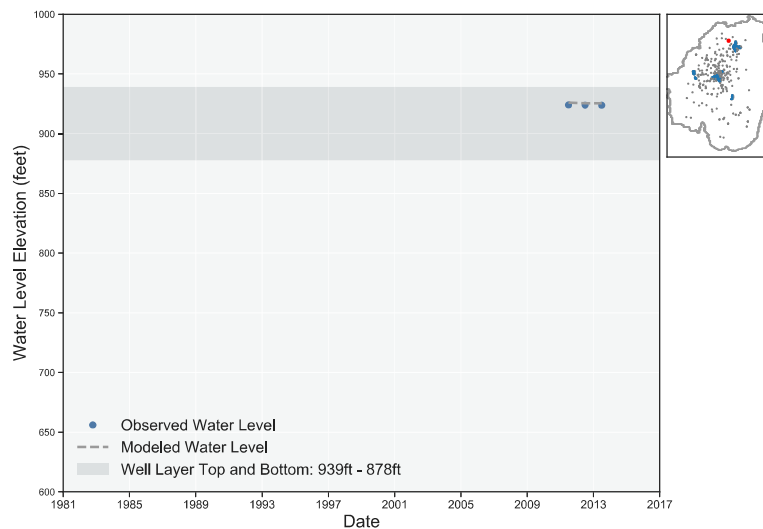
Fixed Scale Plots for the Triannual Stress Period Model



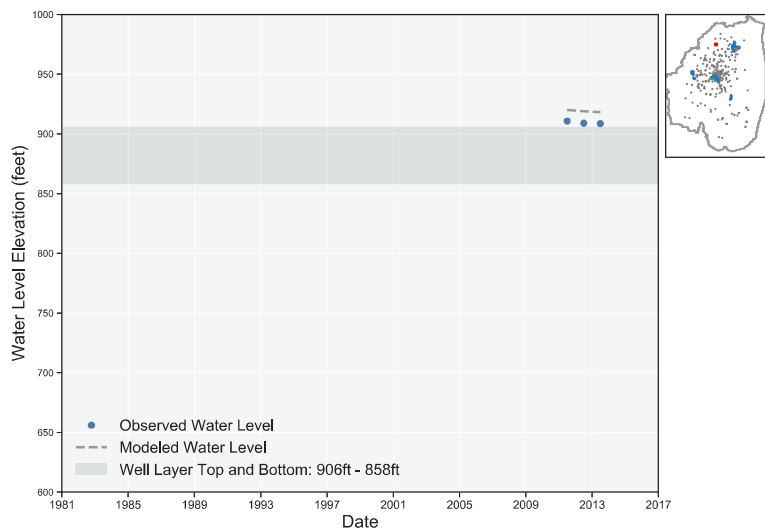
Well 138275 - Aq: QBAA Layers: 4 - 4



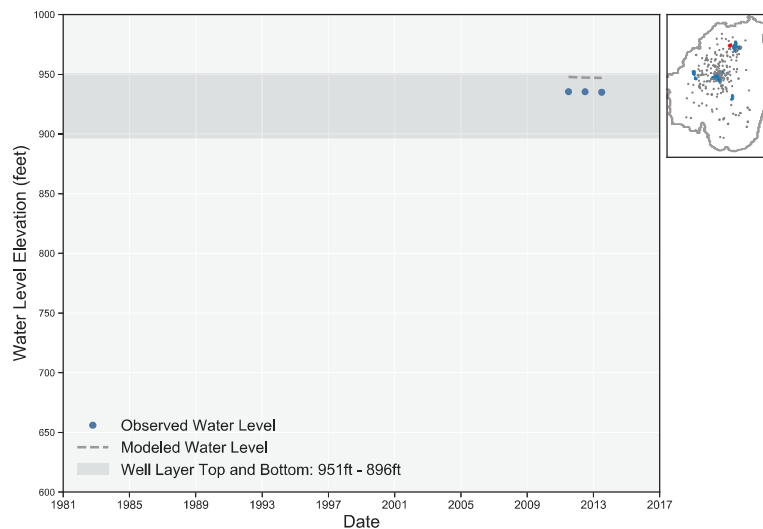
Well 446292 - Aq: QBAA Layers: 4 - 4



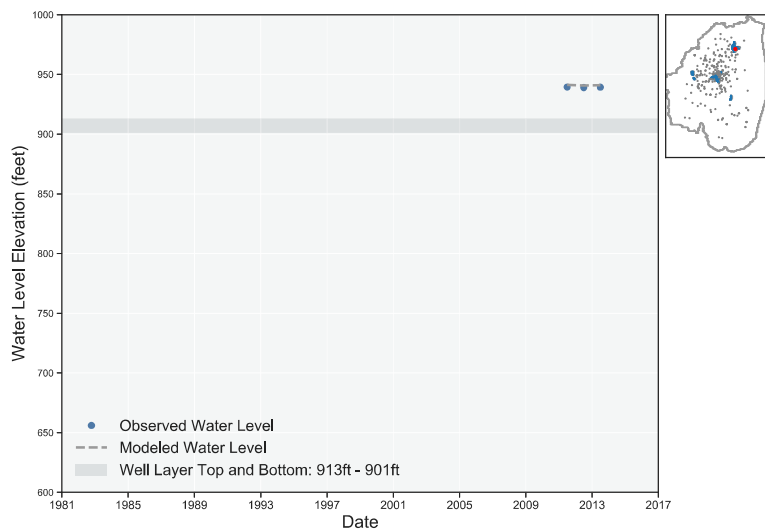
Well 404644 - Aq: QBAA Layers: 4 - 4



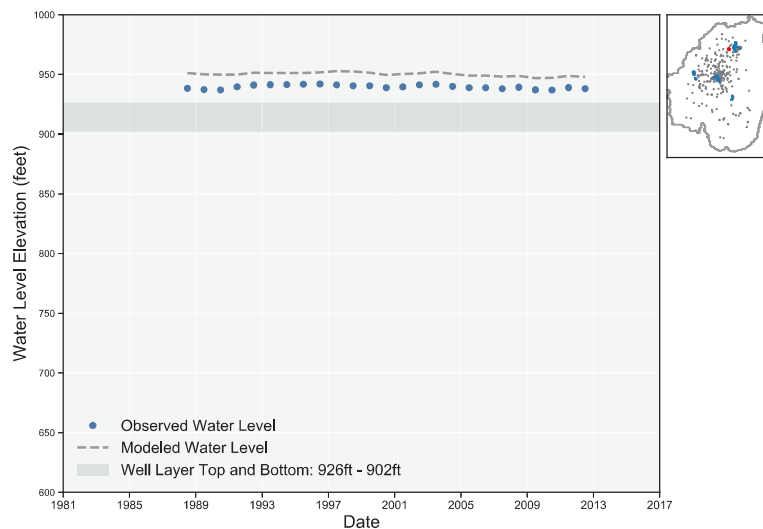
Well 112422 - Aq: QBAA Layers: 4 - 4



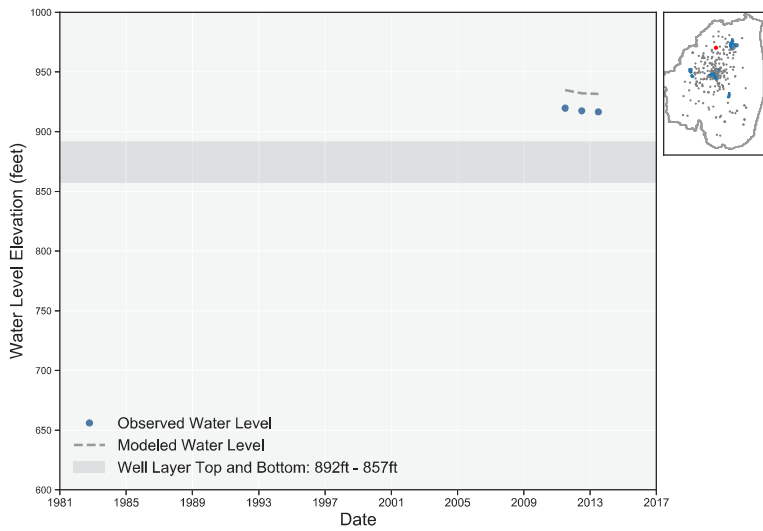
Well 139010 - Aq: QBAA Layers: 4 - 4



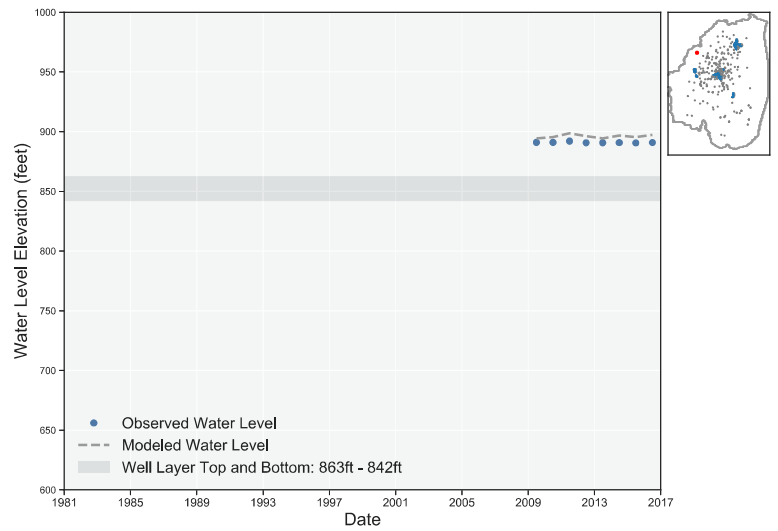
Well 82036 - Aq: QWTA Layers: 4 - 4



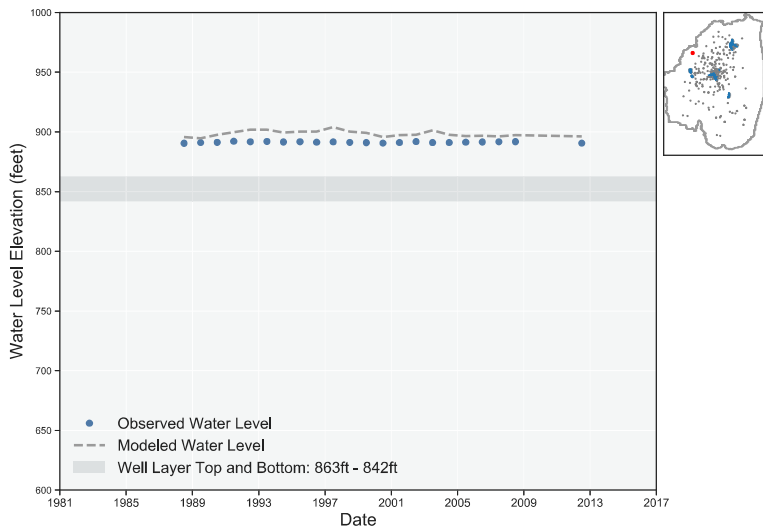
Well 136144 - Aq: QBAA Layers: 4 - 4



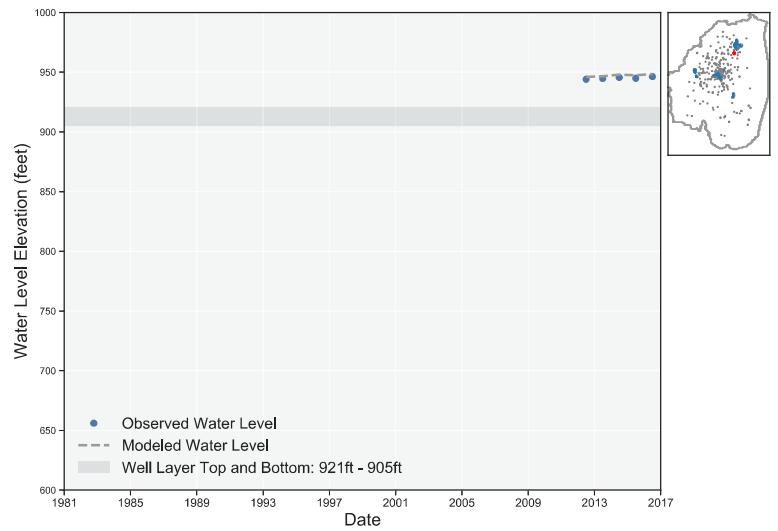
Well 2030 - Aq: QWTA Layers: 4 - 4



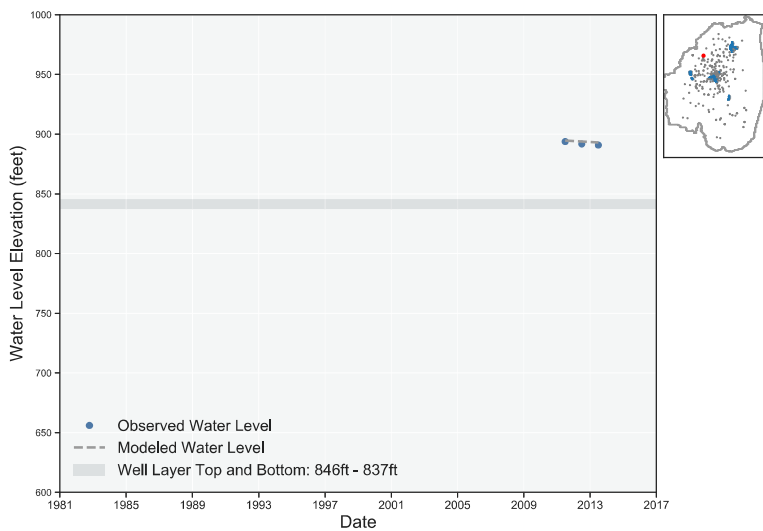
Well 2010 - Aq: QWTA Layers: 4 - 4



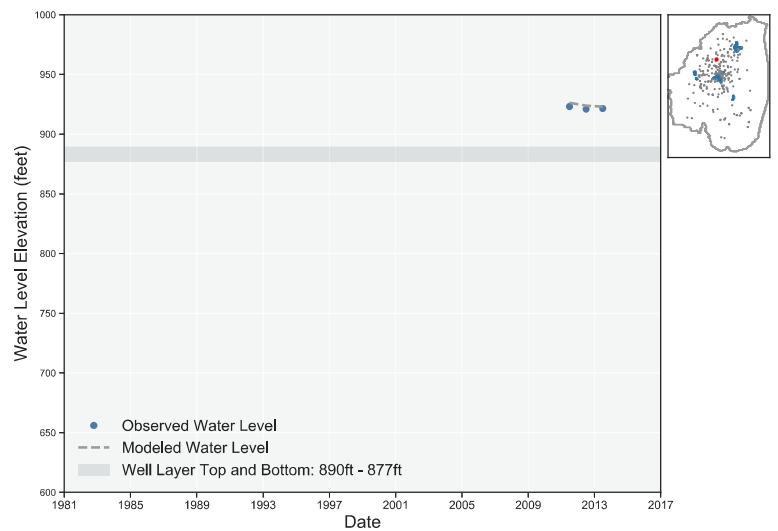
Well 82055 - Aq: QBAA Layers: 4 - 4



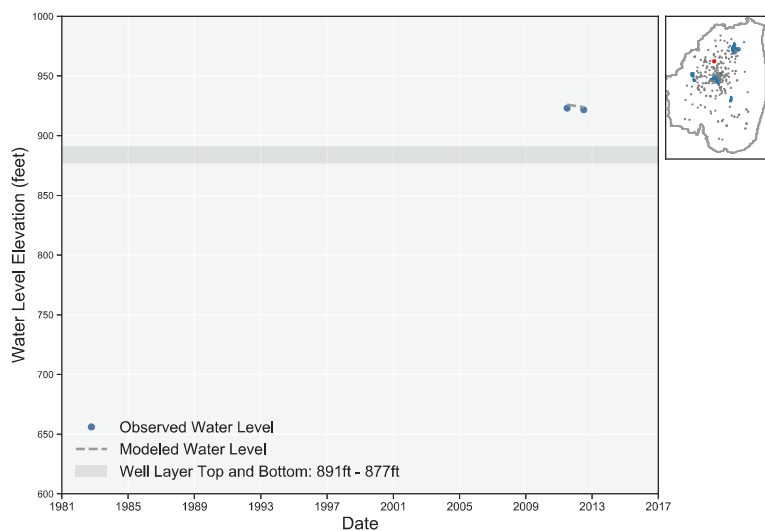
Well 169252 - Aq: QBAA Layers: 4 - 4



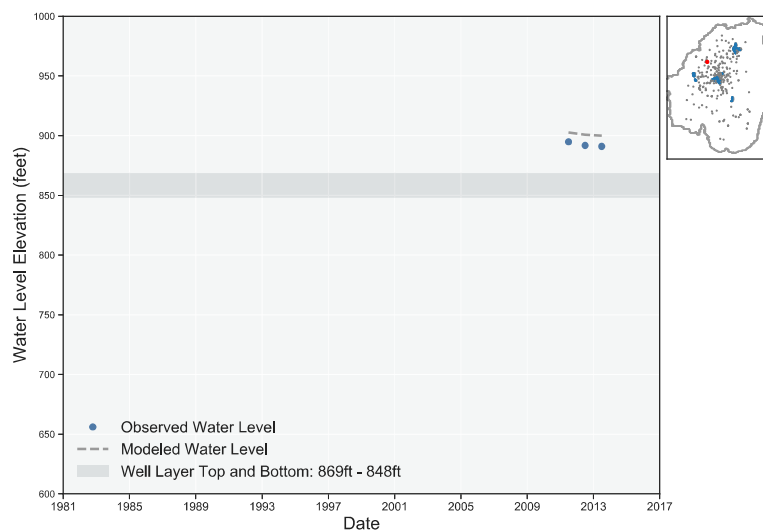
Well 620717 - Aq: QWTA Layers: 4 - 4



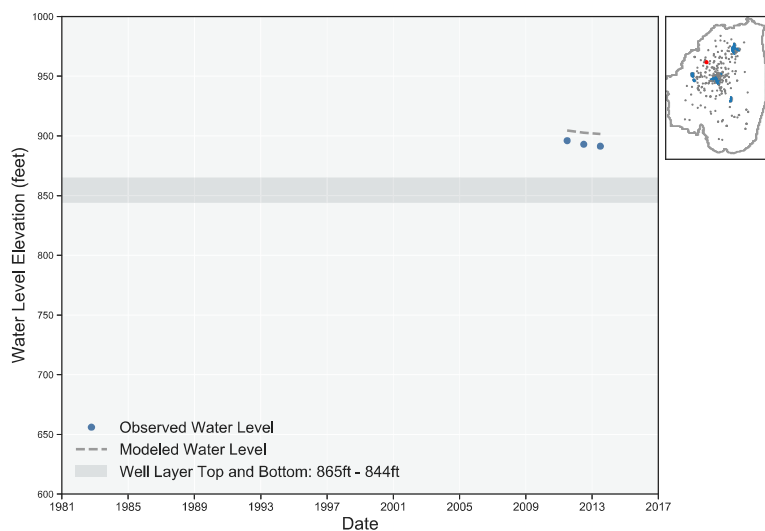
Well 620718 - Aq: QWTA Layers: 4 - 4



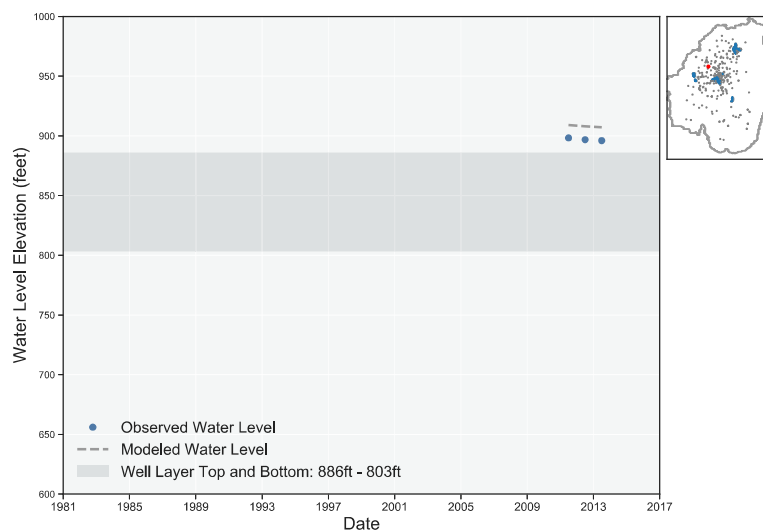
Well 435278 - Aq: QBAA Layers: 4 - 4



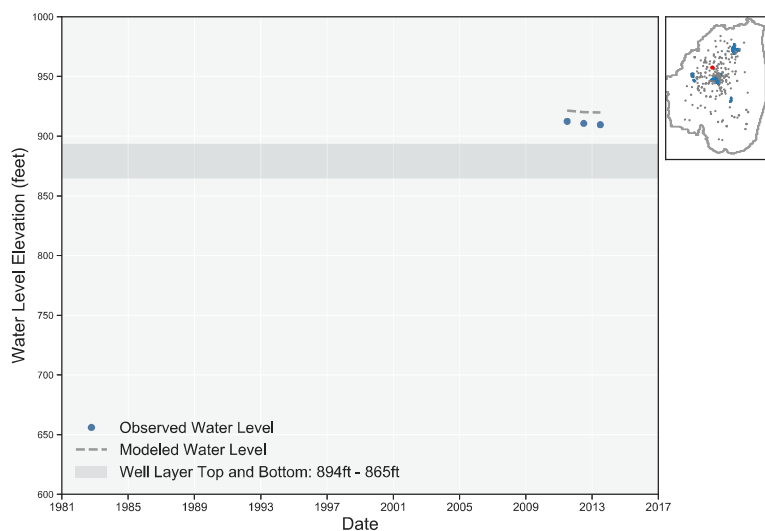
Well 435308 - Aq: QBAA Layers: 4 - 4



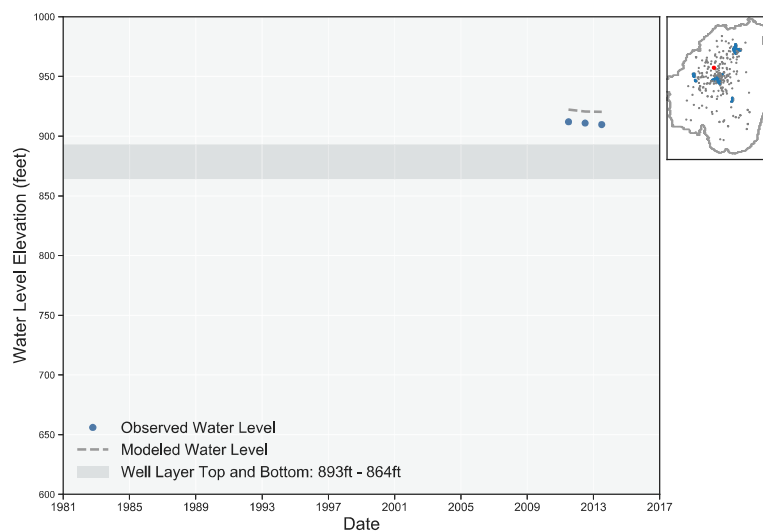
Well 126870 - Aq: QBAA Layers: 4 - 4



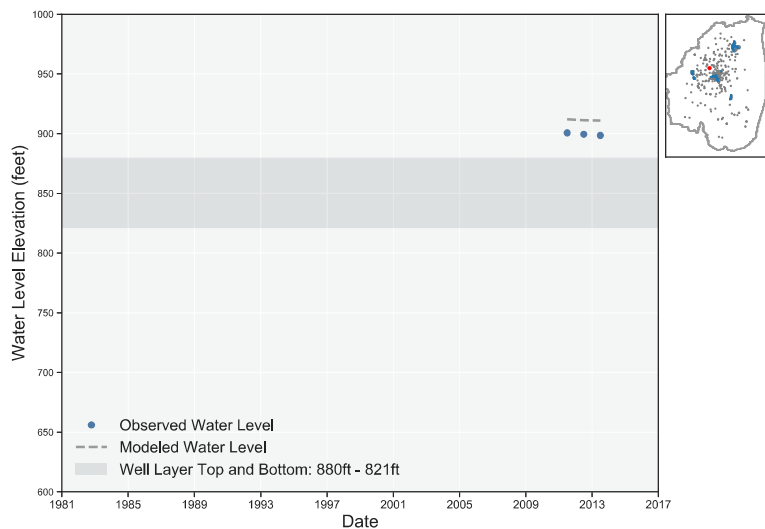
Well 465951 - Aq: QBAA Layers: 4 - 4



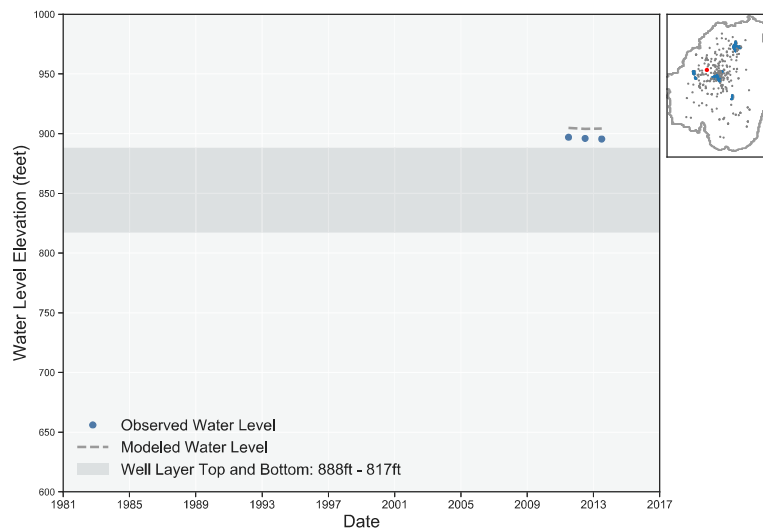
Well 496784 - Aq: QBAA Layers: 4 - 4



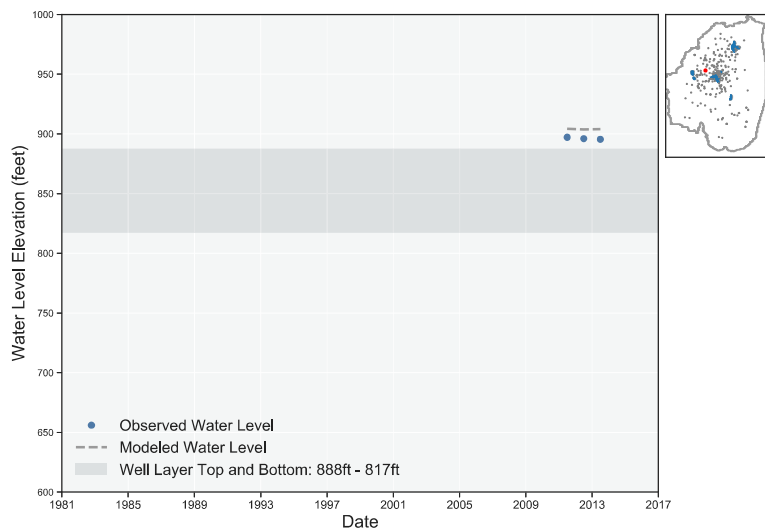
Well 112442 - Aq: QBAA Layers: 4 - 4



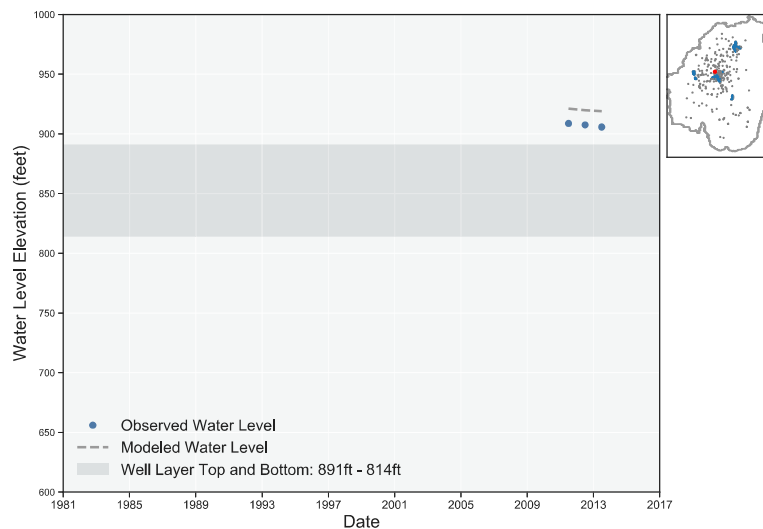
Well 430506 - Aq: QBAA Layers: 4 - 4



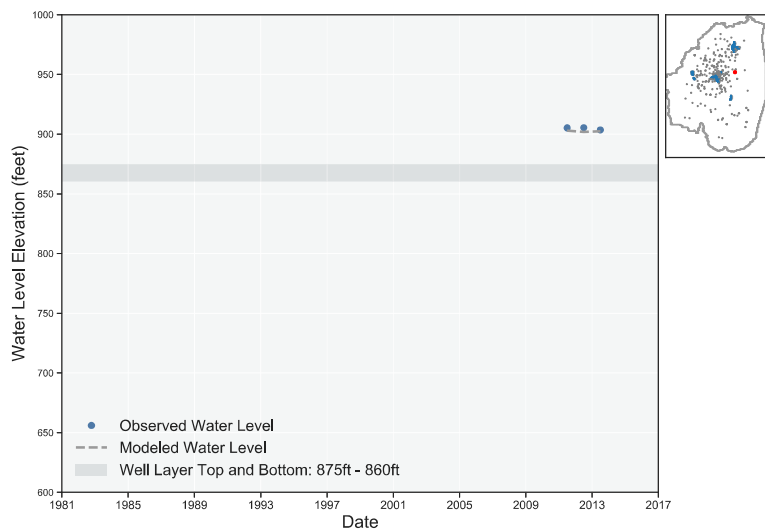
Well 130810 - Aq: QBAA Layers: 4 - 4



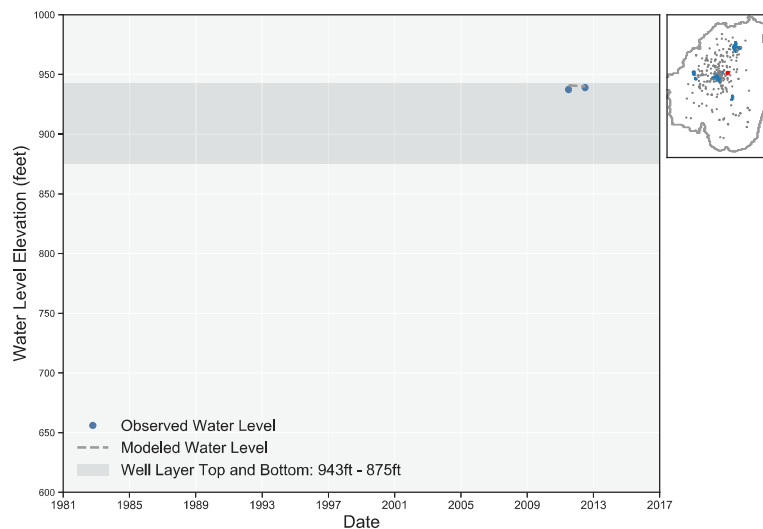
Well 141728 - Aq: Q Layers: 4 - 4



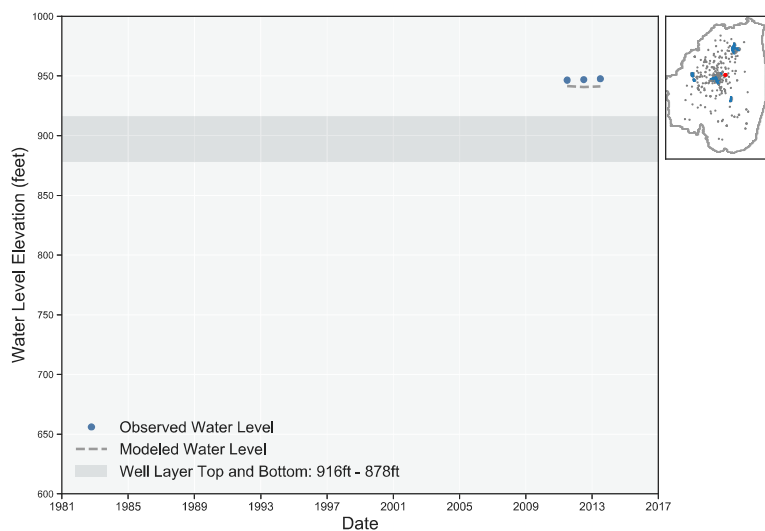
Well 153500 - Aq: QWTA Layers: 4 - 4



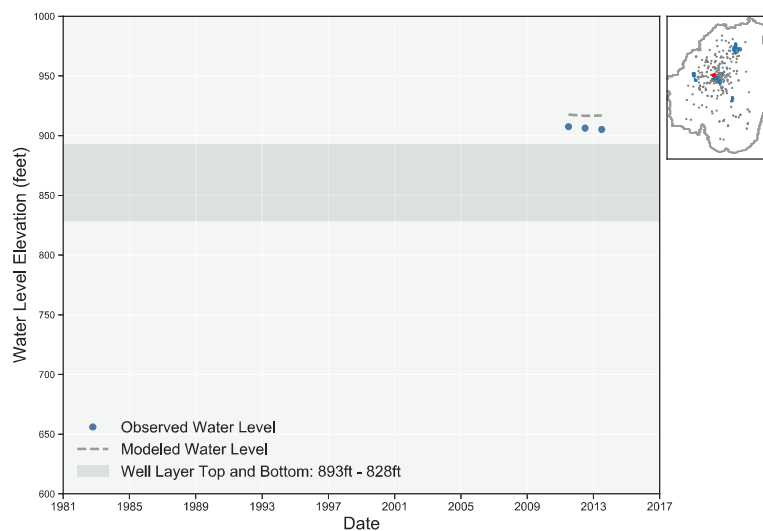
Well 418799 - Aq: QBAA Layers: 4 - 4



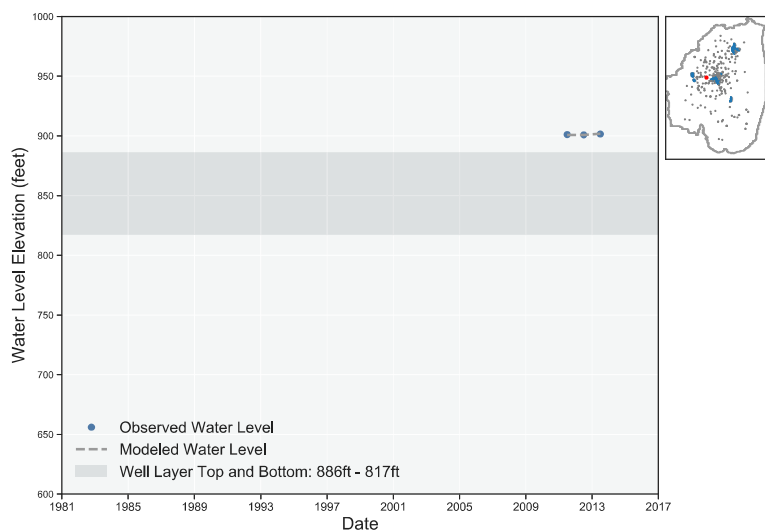
Well 404277 - Aq: QWTA Layers: 4 - 4



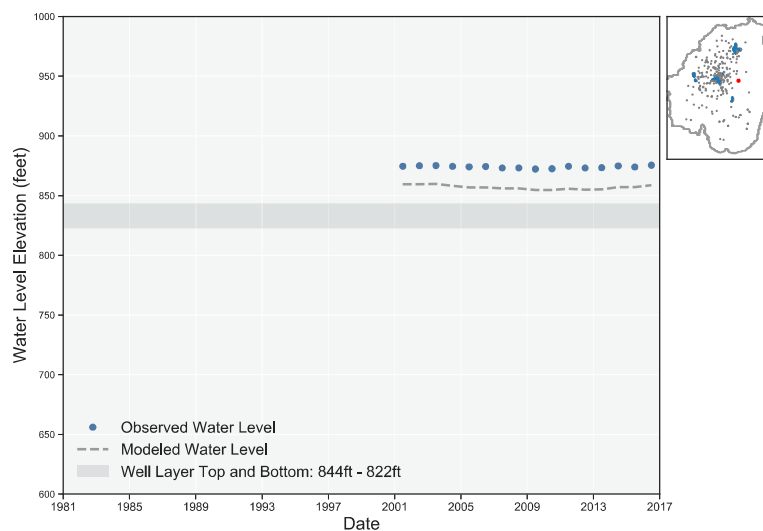
Well 186956 - Aq: Q Layers: 4 - 4



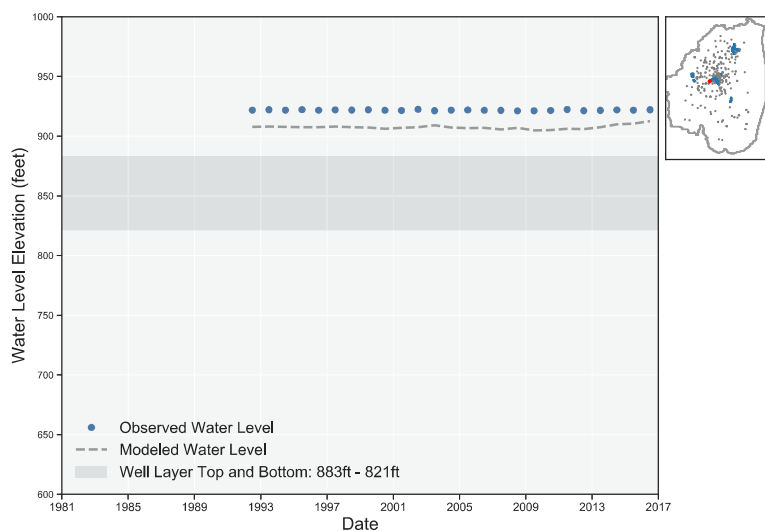
Well 173943 - Aq: QBAA Layers: 4 - 4



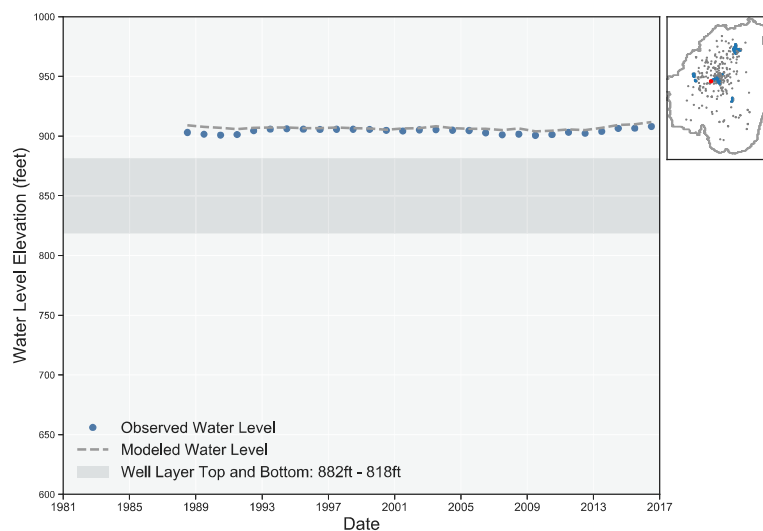
Well 82048 - Aq: QBAA Layers: 4 - 4



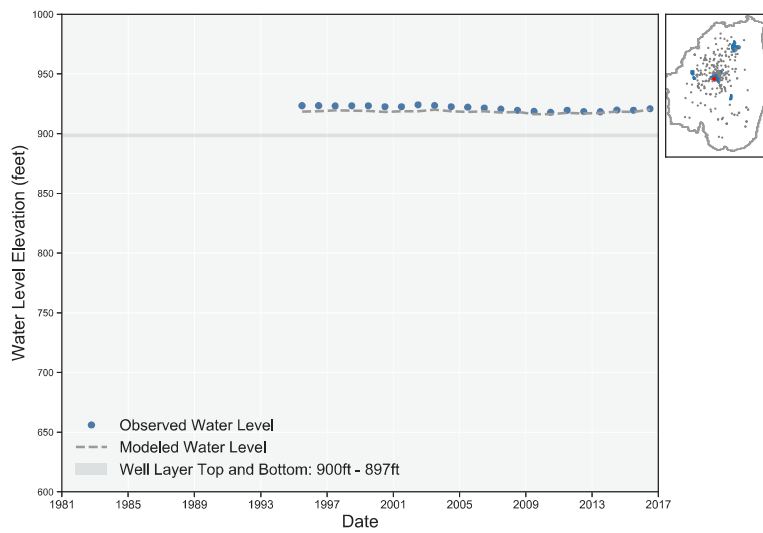
Well 62039 - Aq: QWTA Layers: 4 - 4



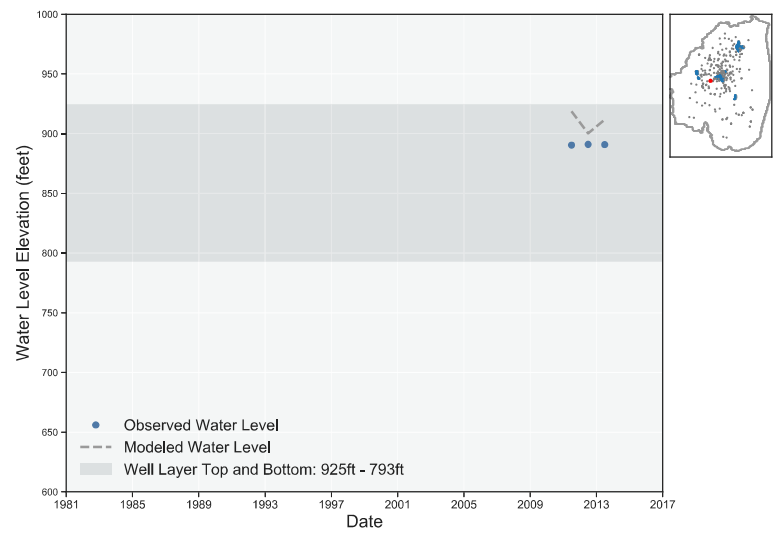
Well 62033 - Aq: QBAA Layers: 4 - 4



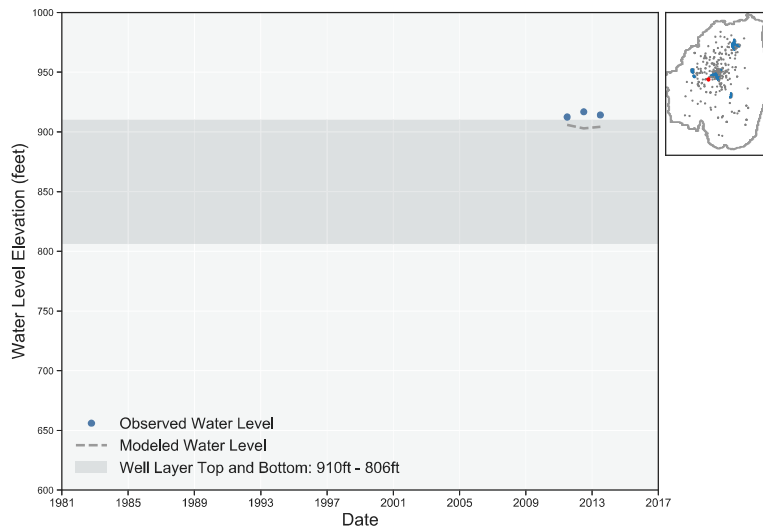
Well 62045 - Aq: QBAA Layers: 4 - 4



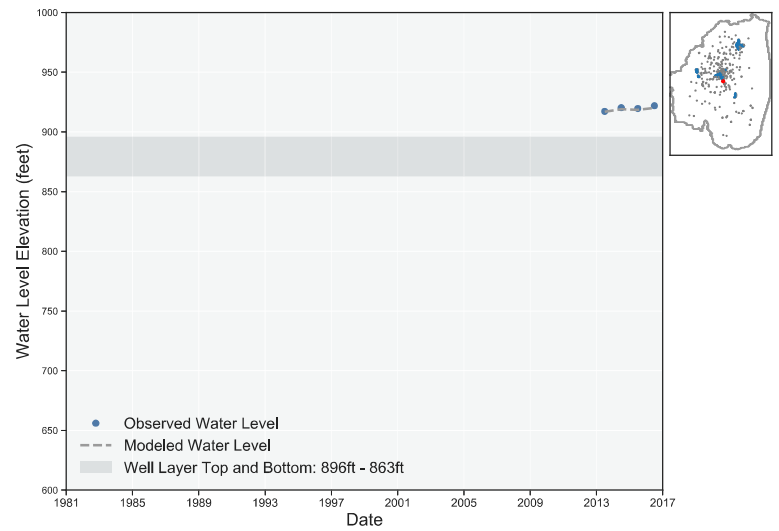
Well 151732 - Aq: Q Layers: 4 - 4



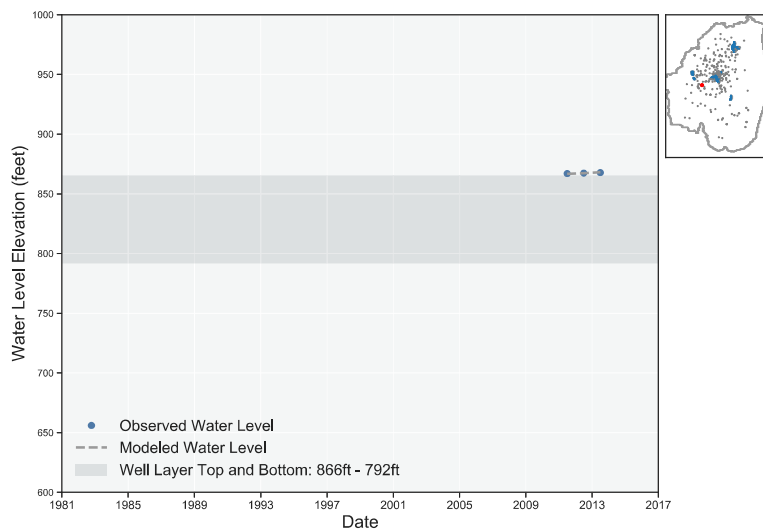
Well 401598 - Aq: QBUA Layers: 4 - 4



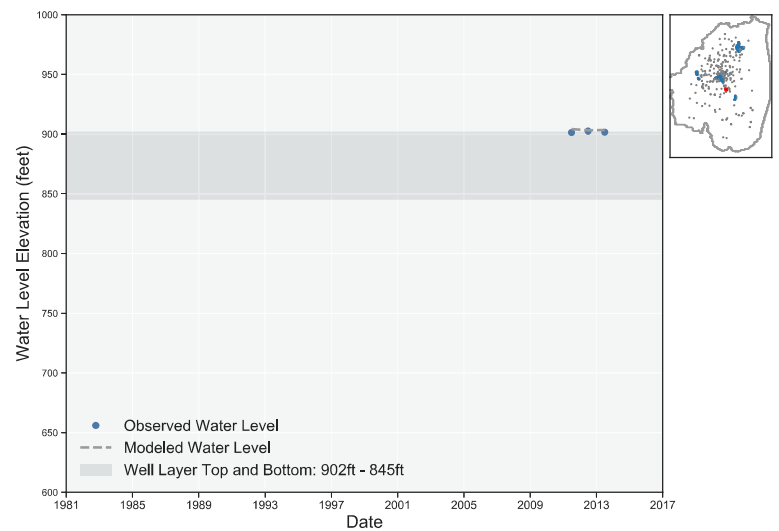
Well 82057 - Aq: QWTA Layers: 4 - 4



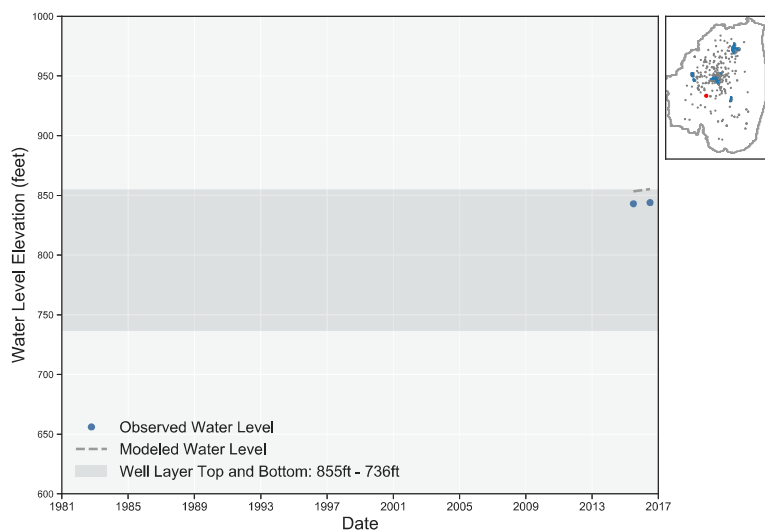
Well 107006 - Aq: QBAA Layers: 4 - 4



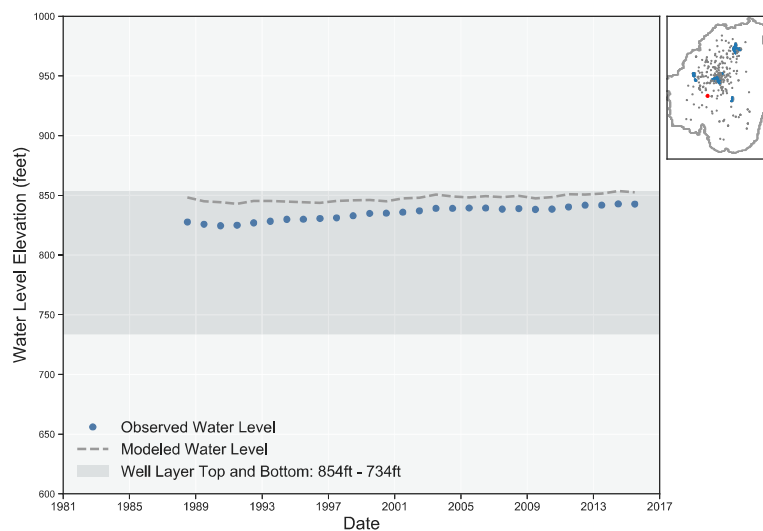
Well 436676 - Aq: QBAA Layers: 4 - 4



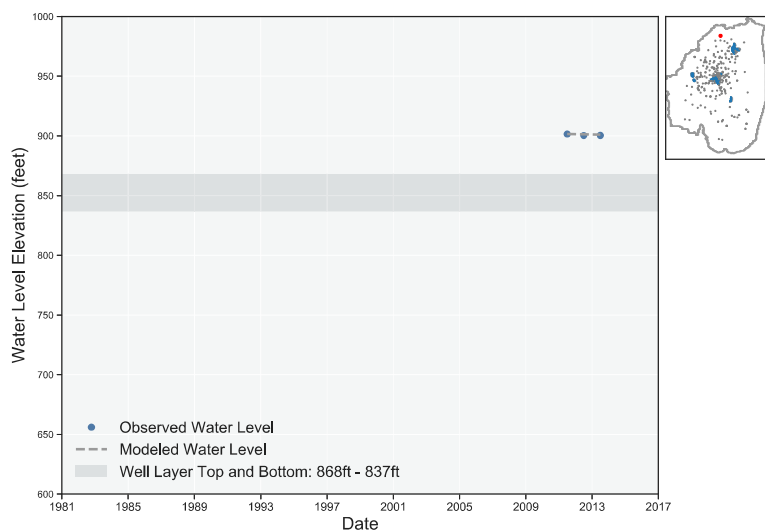
Well 62055 - Aq: QWTA Layers: 4 - 4



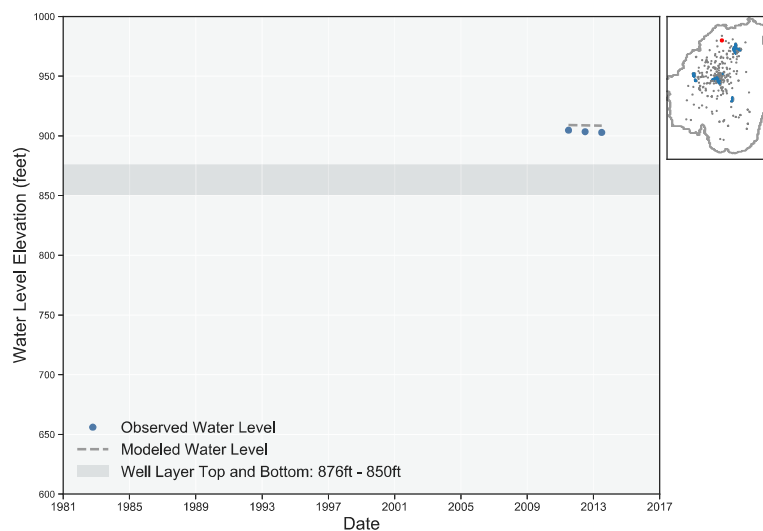
Well 62008 - Aq: QBAA Layers: 4 - 4



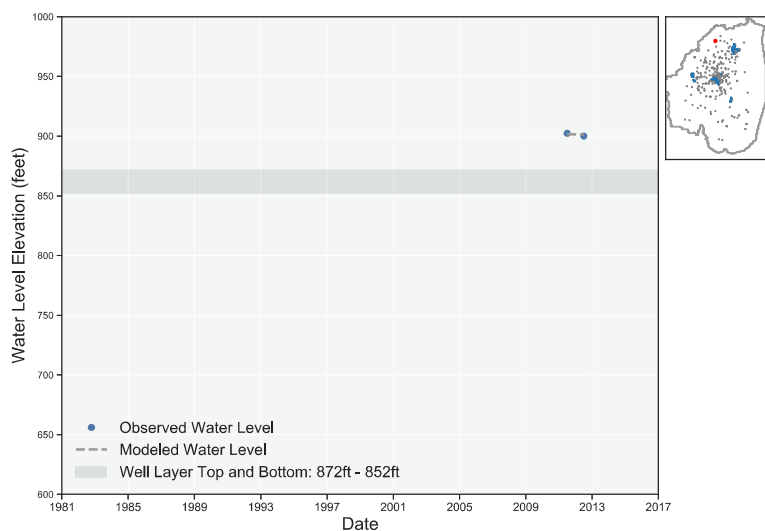
Well 178258 - Aq: QBAA Layers: 5 - 5



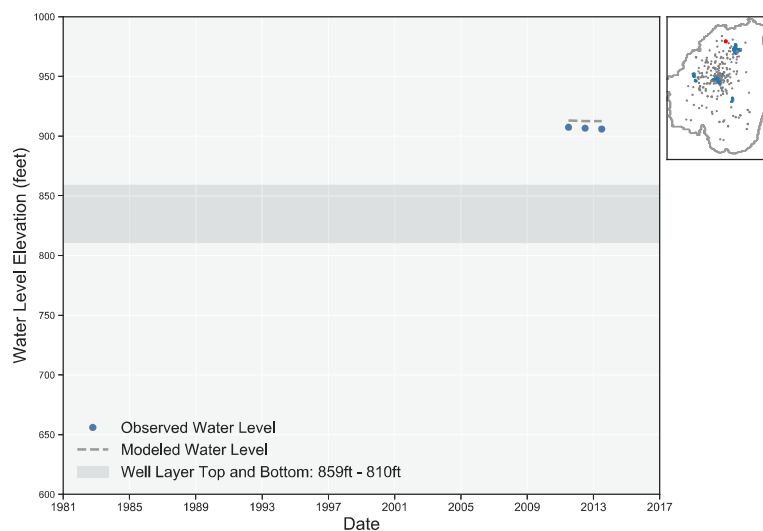
Well 428561 - Aq: QBAA Layers: 5 - 5



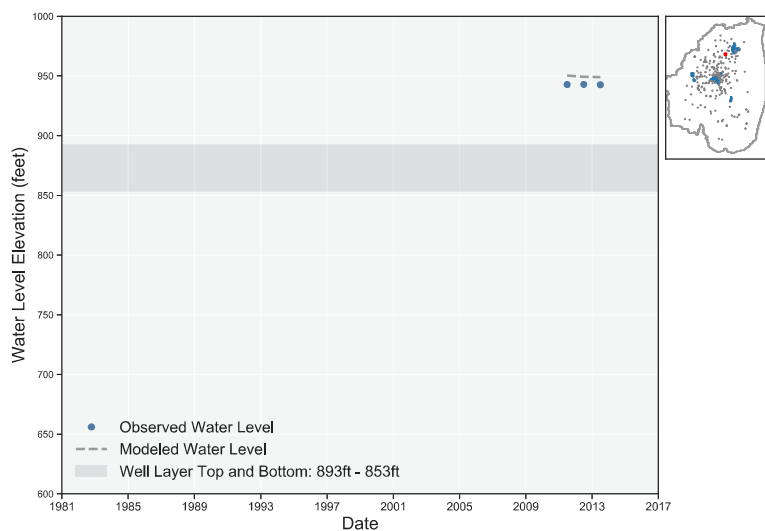
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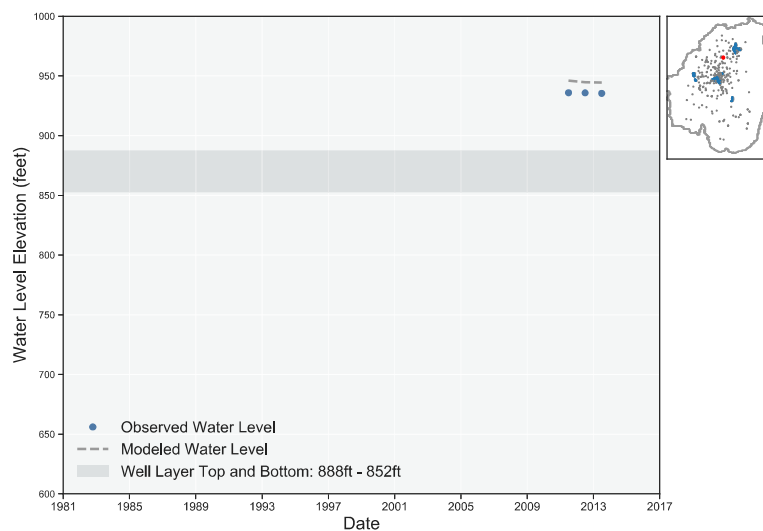
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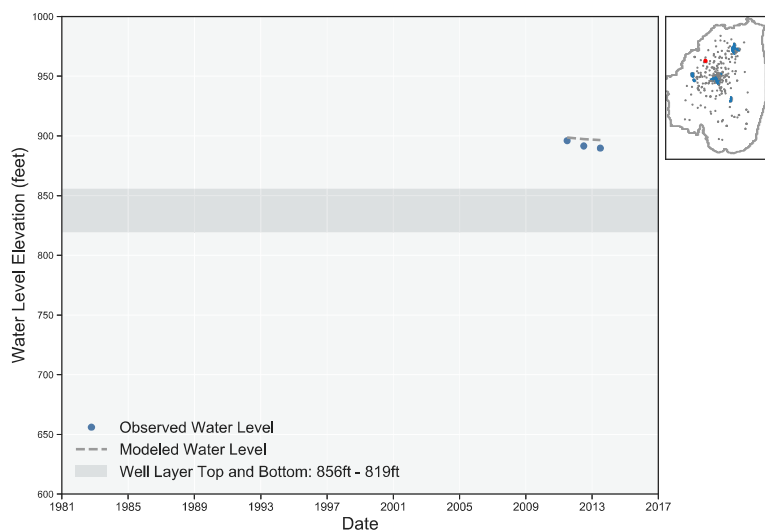
Well 112661 - Aq: QBAA Layers: 5 - 5



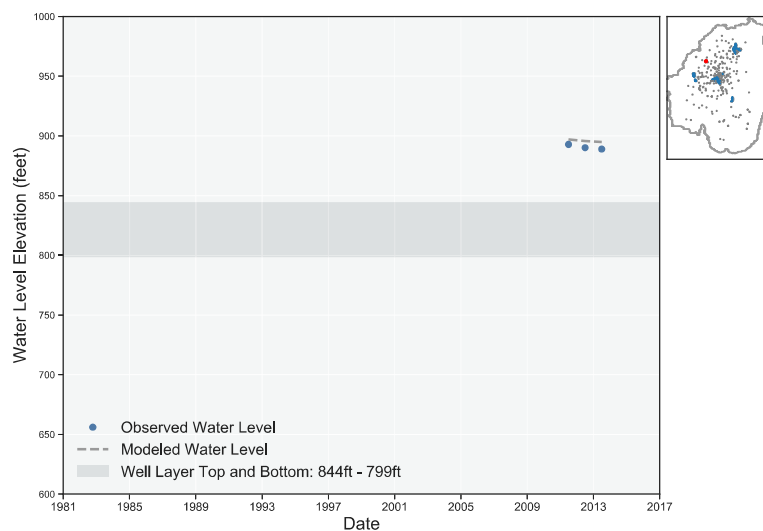
Well 485406 - Aq: OSTP Layers: 5 - 5



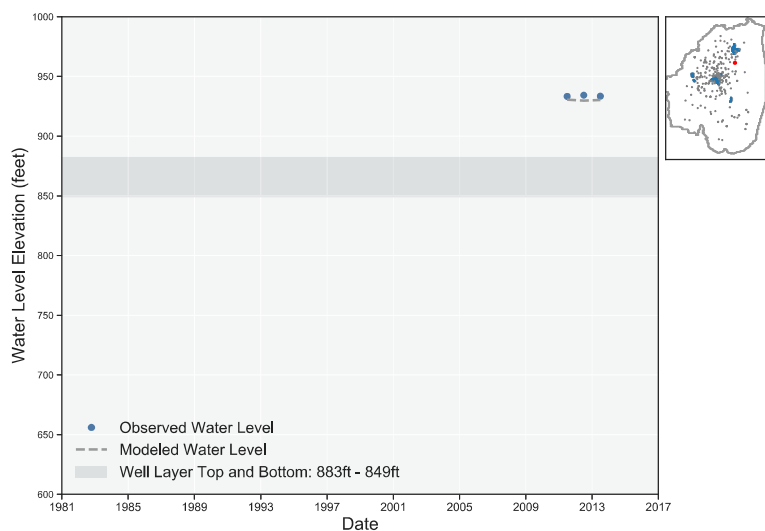
Well 439244 - Aq: OSTP Layers: 5 - 5



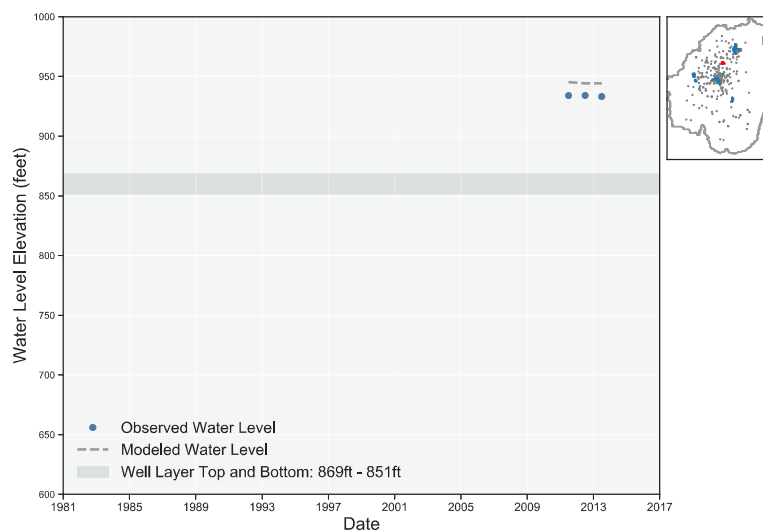
Well 439246 - Aq: OSTP Layers: 5 - 5



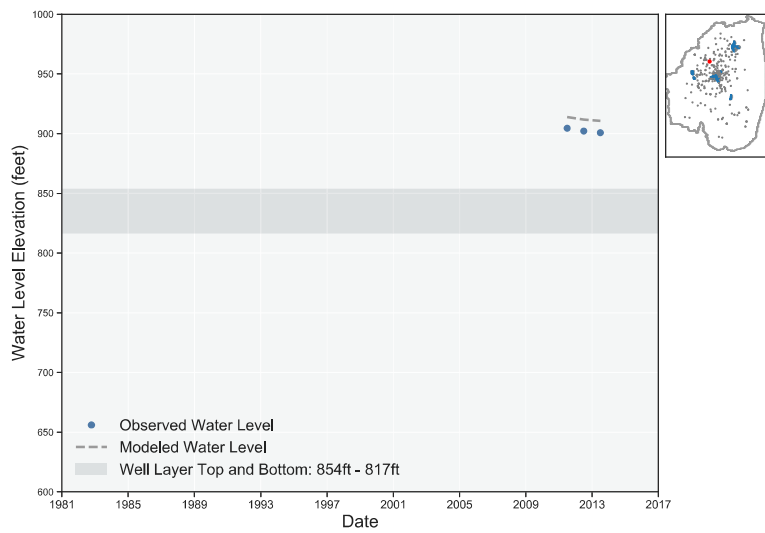
Well 411608 - Aq: QBAA Layers: 5 - 5



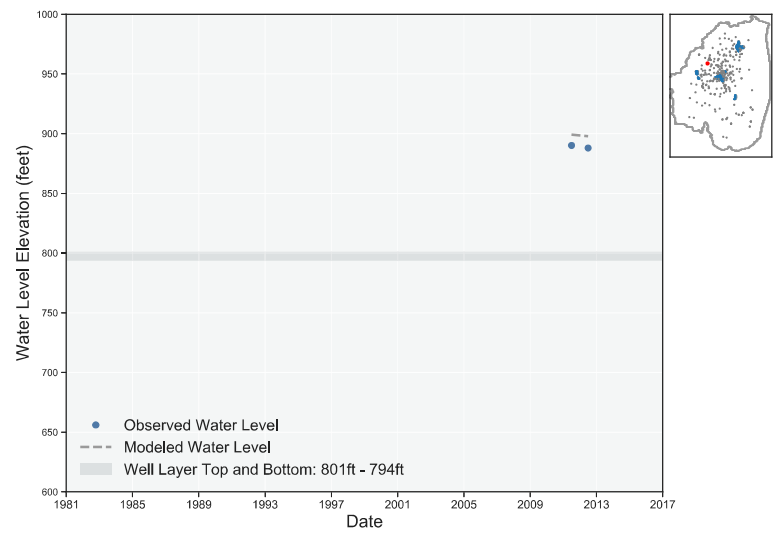
Well 410174 - Aq: OSTP Layers: 5 - 5



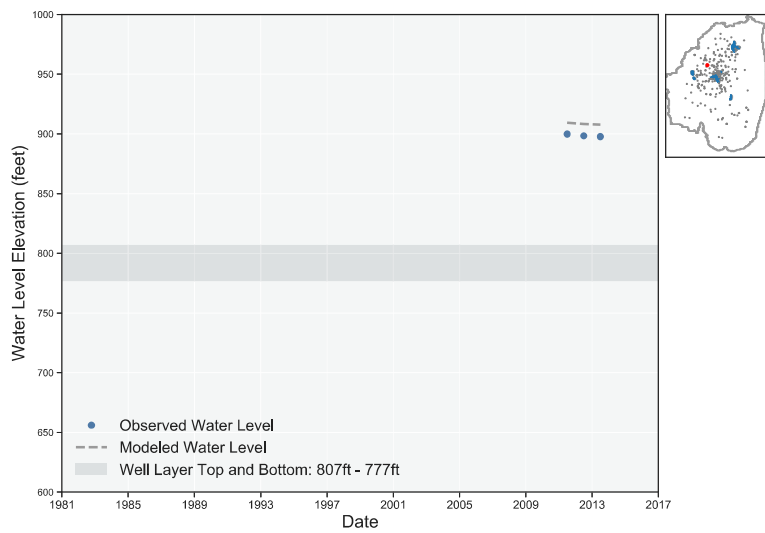
Well 162295 - Aq: OSTP Layers: 5 - 5



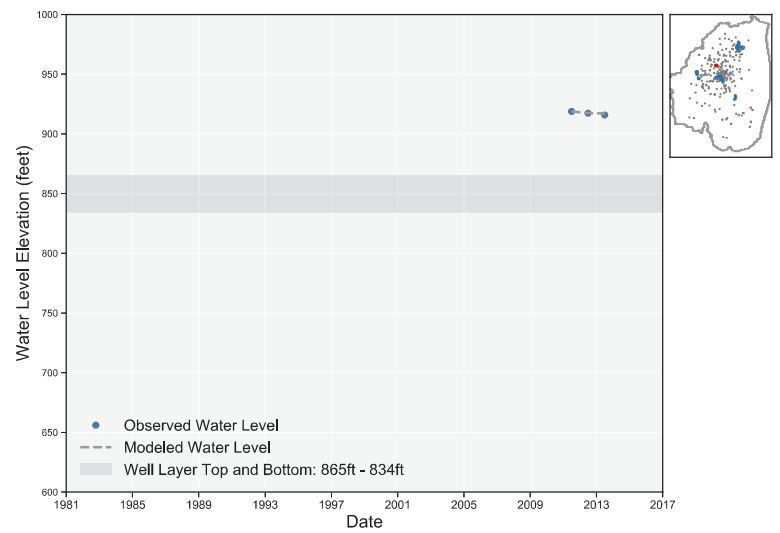
Well 164776 - Aq: OSTP Layers: 5 - 5



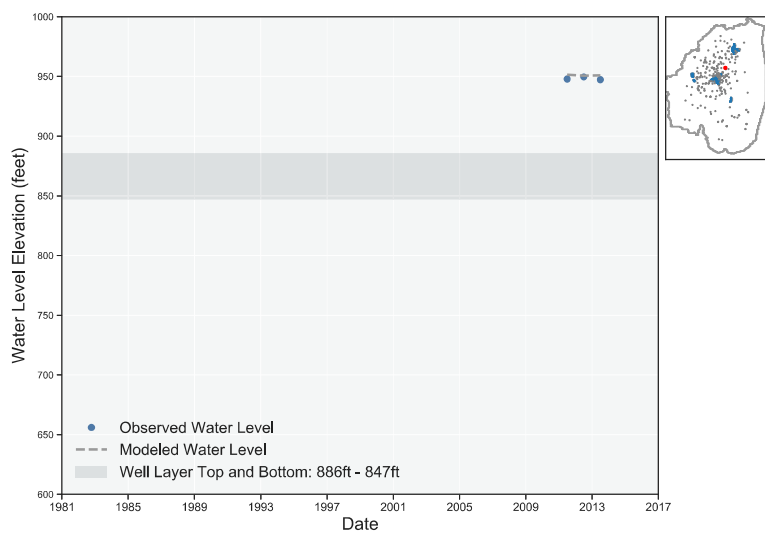
Well 755580 - Aq: OSTP Layers: 5 - 5



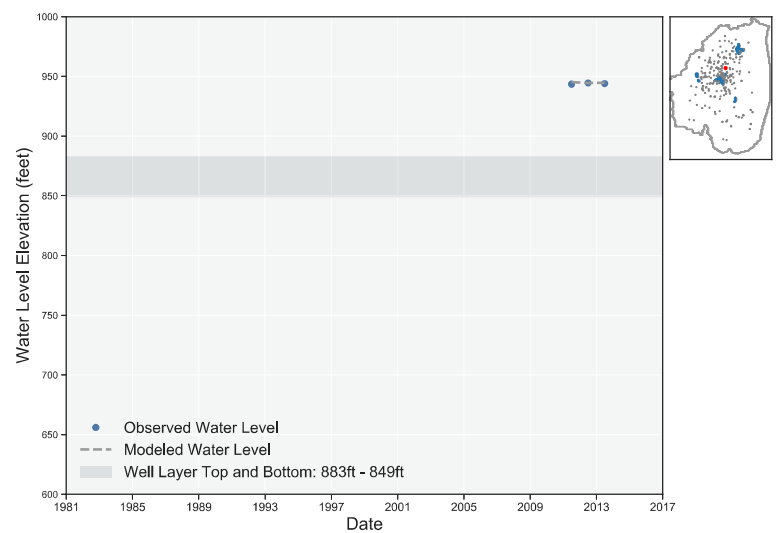
Well 653756 - Aq: QBAA Layers: 5 - 5



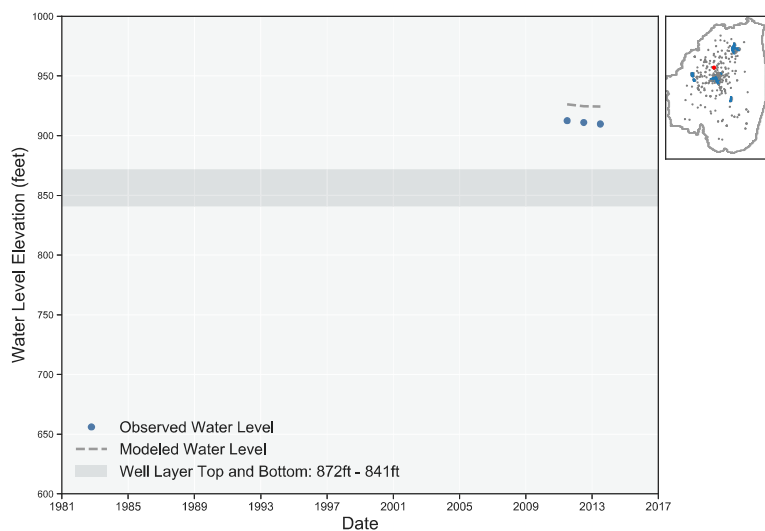
Well 429100 - Aq: OSTP Layers: 5 - 5



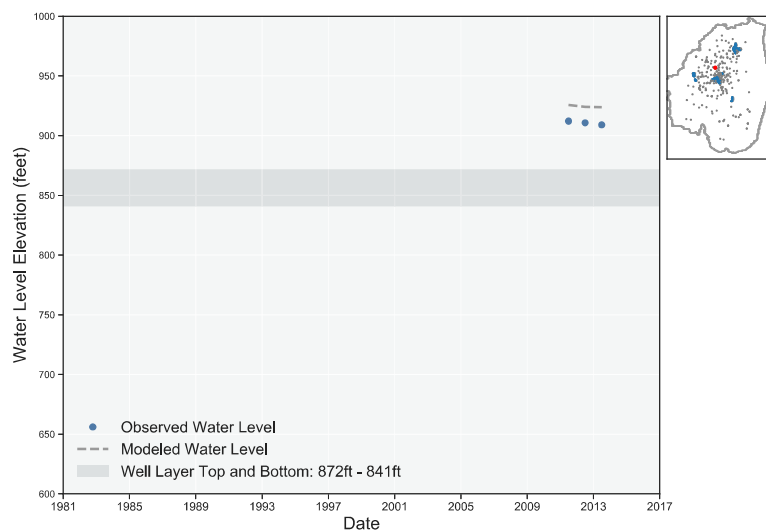
Well 138268 - Aq: OSTP Layers: 5 - 5



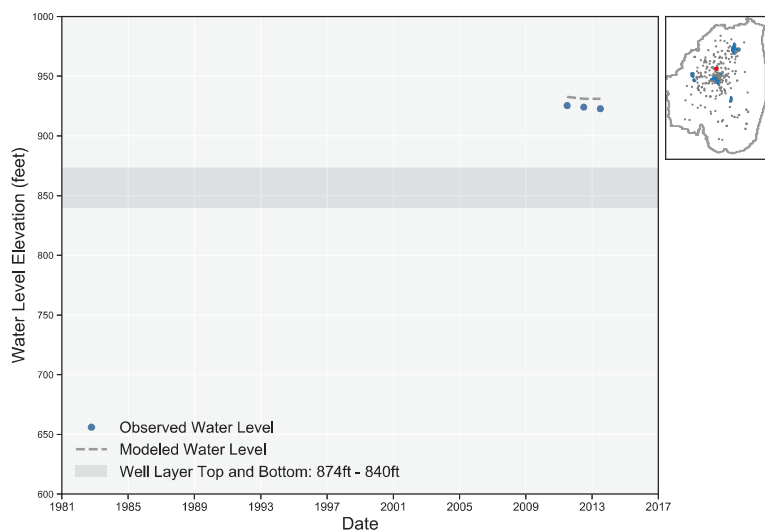
Well 469841 - Aq: QBAA Layers: 5 - 5



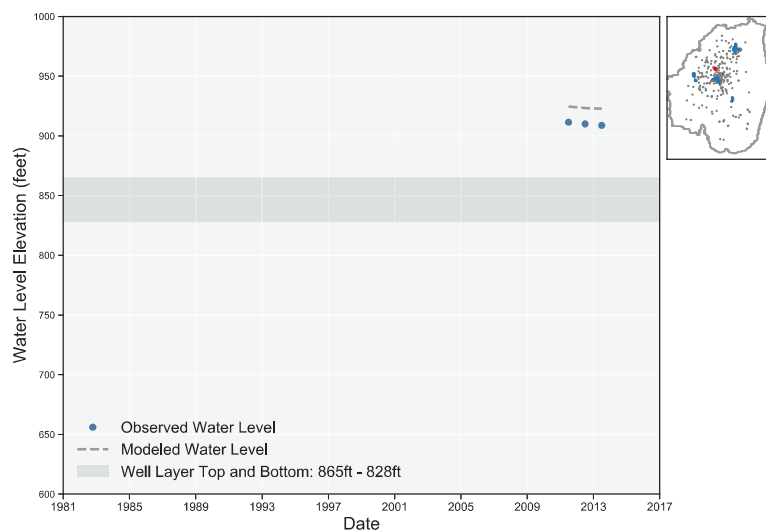
Well 163708 - Aq: QBAA Layers: 5 - 5



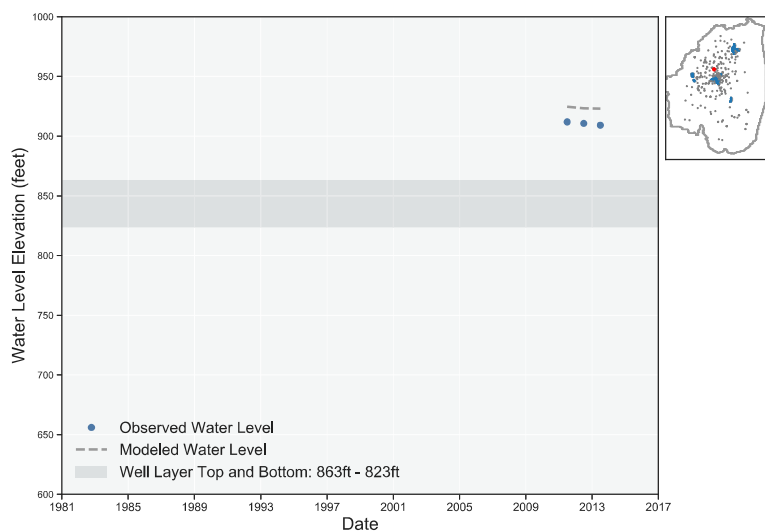
Well 153490 - Aq: OSTP Layers: 5 - 5



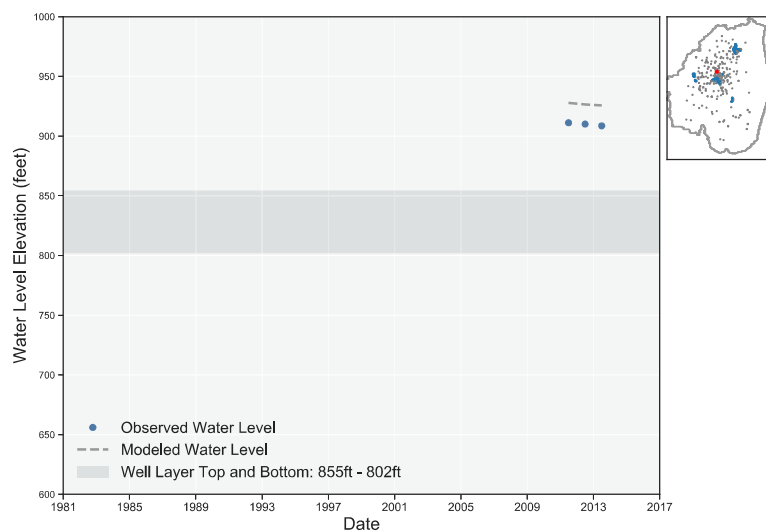
Well 435108 - Aq: OSTP Layers: 5 - 5



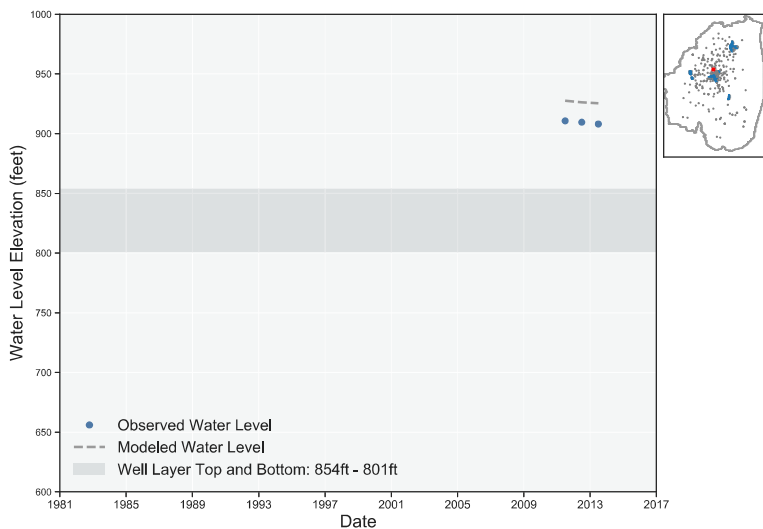
Well 450417 - Aq: OSTP Layers: 5 - 5



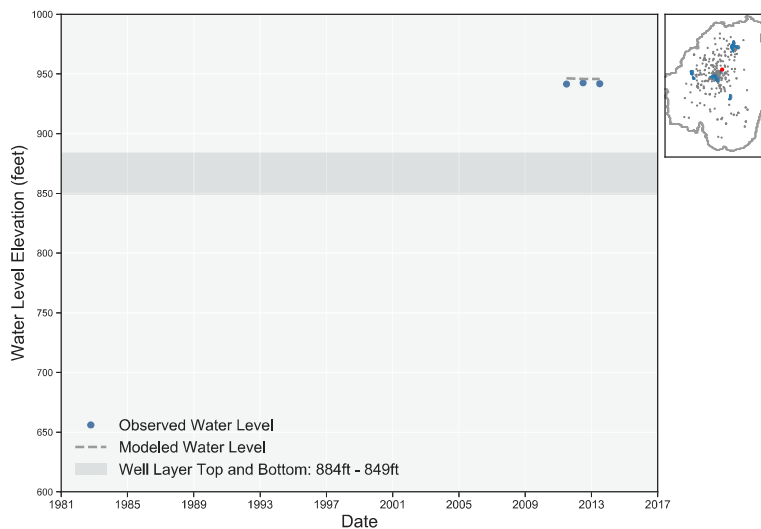
Well 432954 - Aq: QBAA Layers: 5 - 5



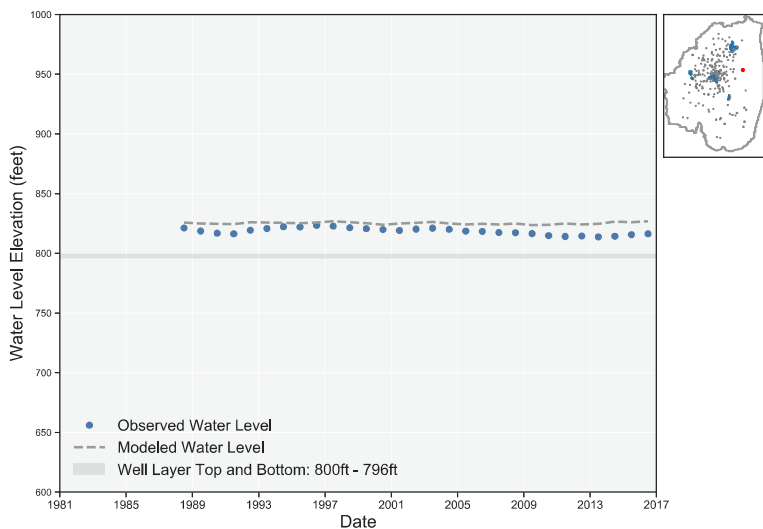
Well 470188 - Aq: QBUA Layers: 5 - 5



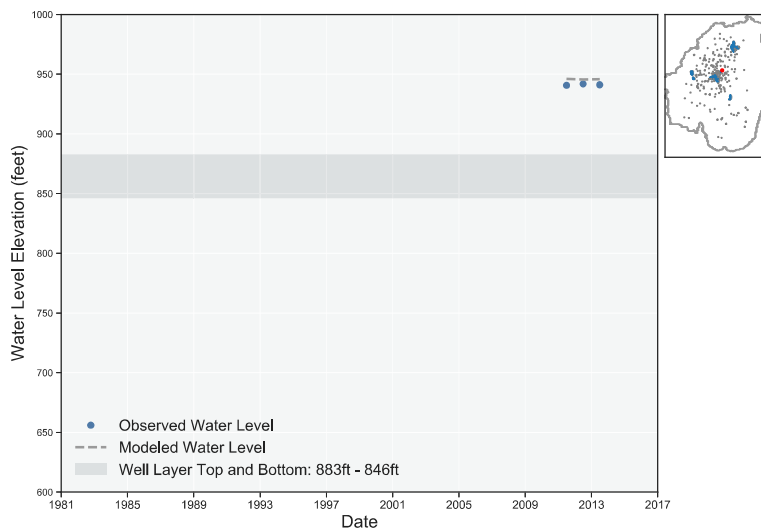
Well 182934 - Aq: OSTP Layers: 5 - 5



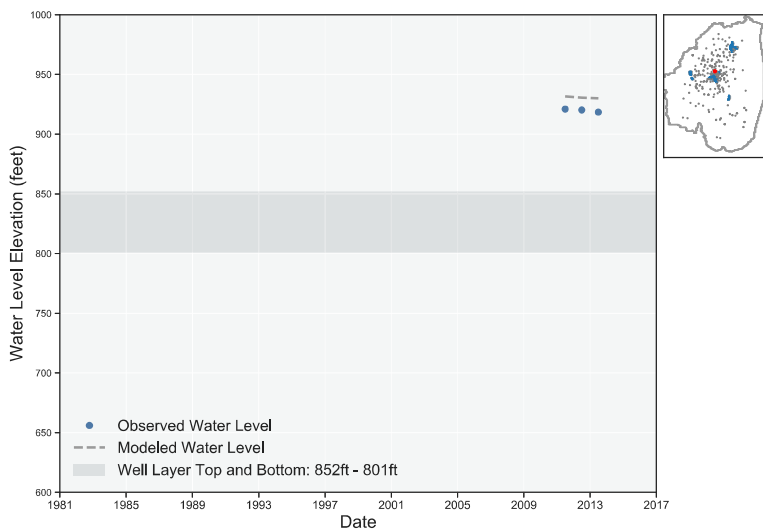
Well 82024 - Aq: QBAA Layers: 5 - 5



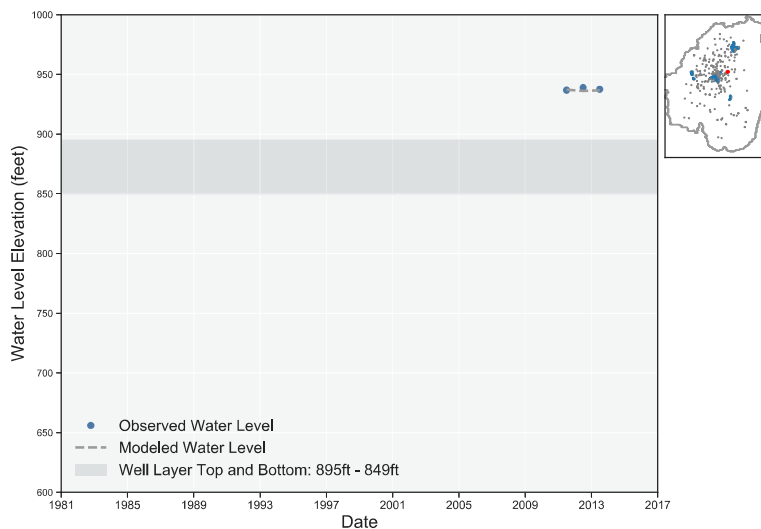
Well 407054 - Aq: OSTP Layers: 5 - 5



Well 182779 - Aq: MTPL Layers: 5 - 5



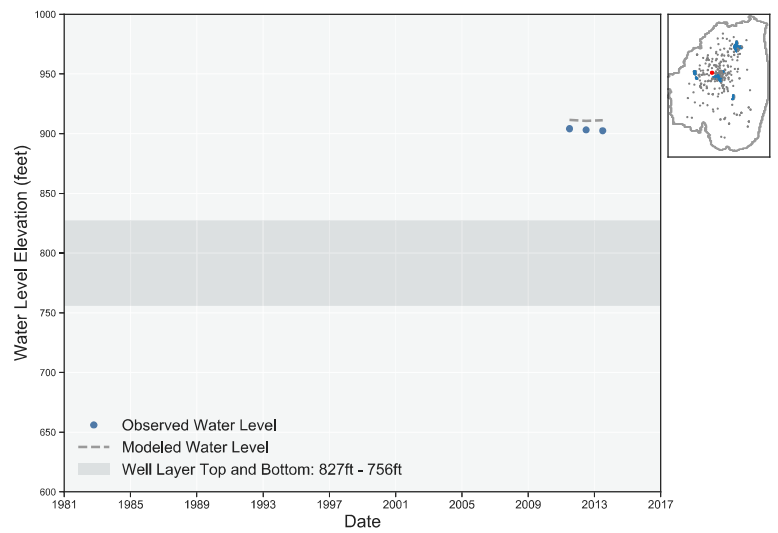
Well 437320 - Aq: OPDC Layers: 5 - 5



Well 176028 - Aq: OSTP Layers: 5 - 5



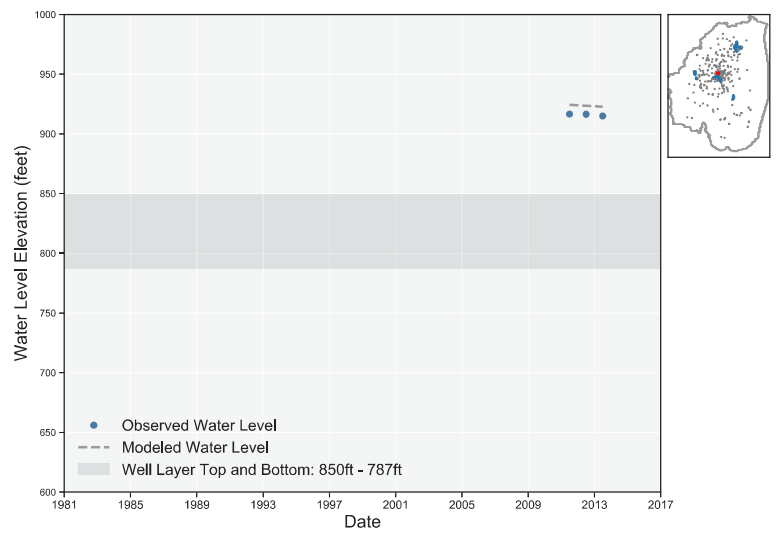
Well 410974 - Aq: OSTP Layers: 5 - 5



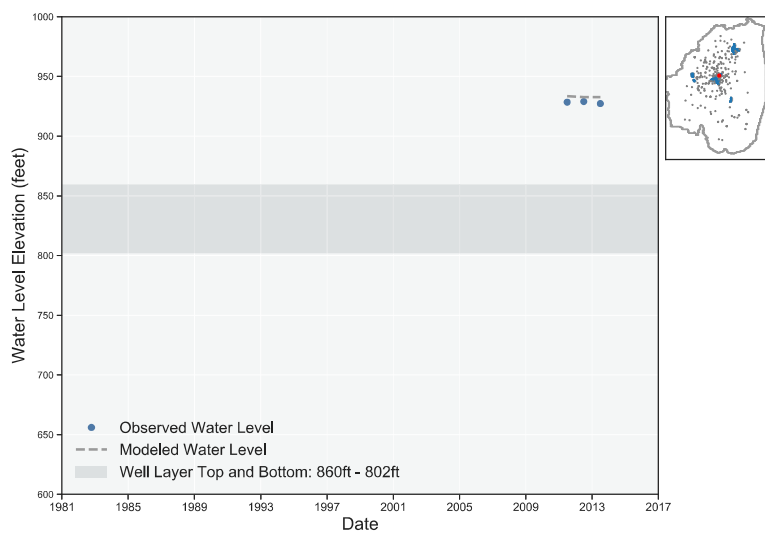
Well 205706 - Aq: OSTP Layers: 5 - 5



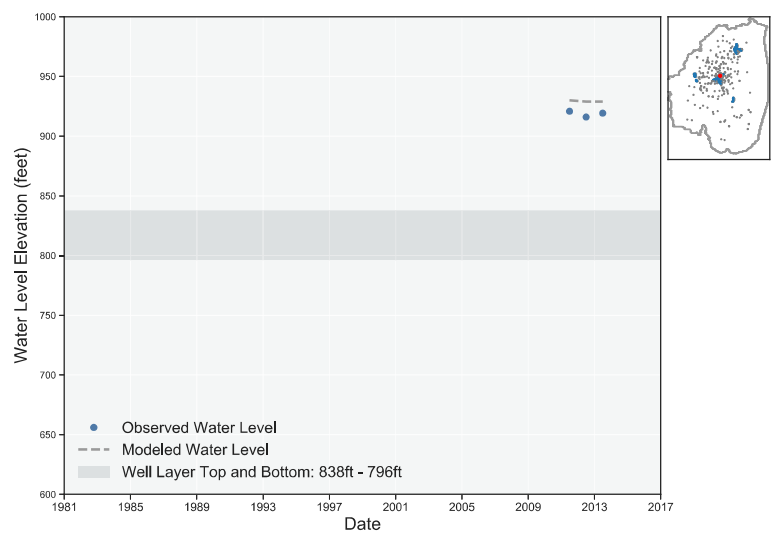
Well 130874 - Aq: OSTP Layers: 5 - 5



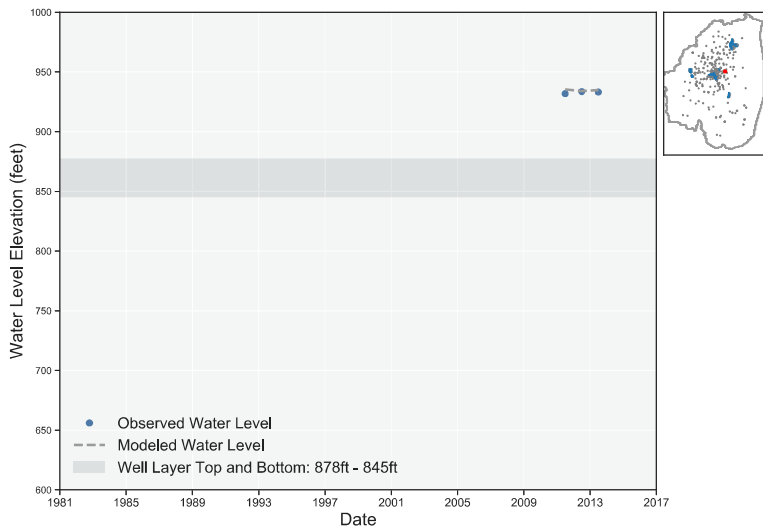
Well 208479 - Aq: QBAA Layers: 5 - 5



Well 178281 - Aq: OSTP Layers: 5 - 5



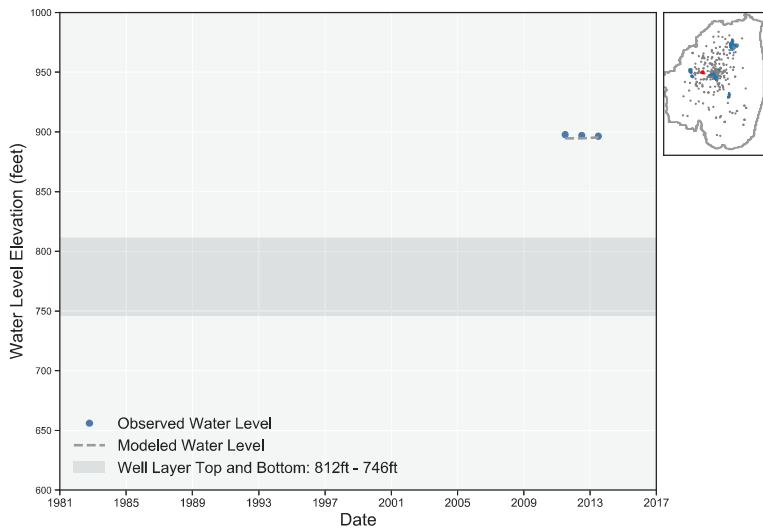
Well 163703 - Aq: OSTP Layers: 5 - 5



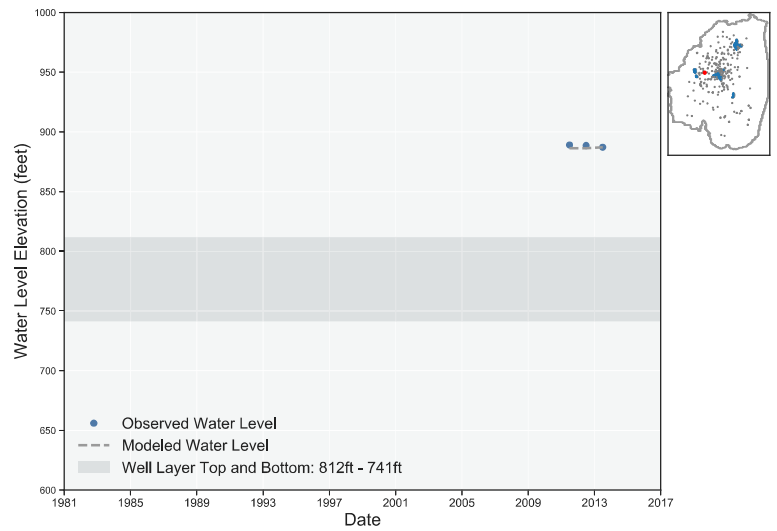
Well 130885 - Aq: OSTP Layers: 5 - 5



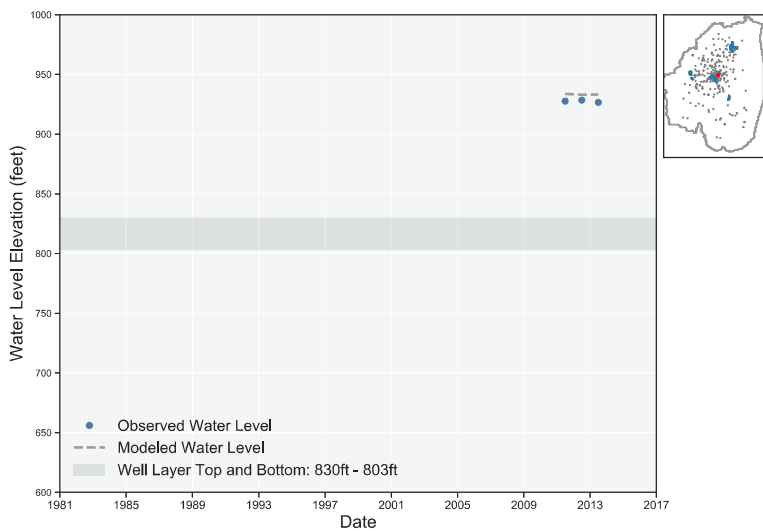
Well 154417 - Aq: OSTP Layers: 5 - 5



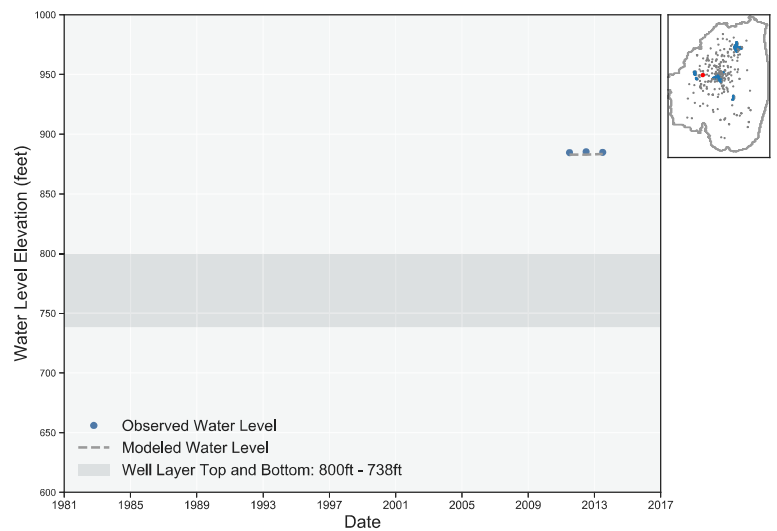
Well 205720 - Aq: OSTP Layers: 5 - 5



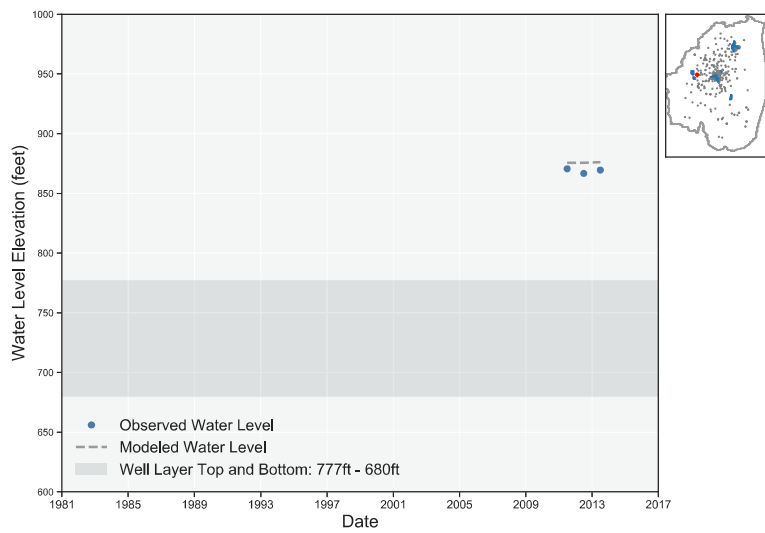
Well 112480 - Aq: OSTP Layers: 5 - 5



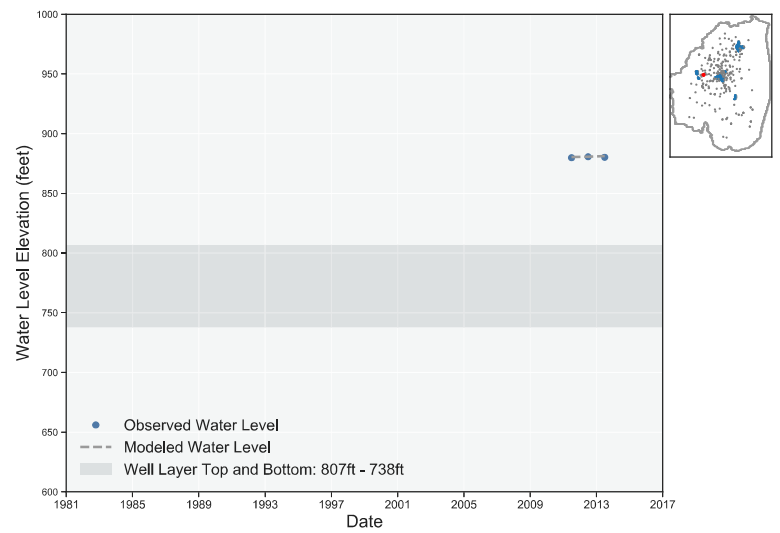
Well 430525 - Aq: OSTP Layers: 5 - 5



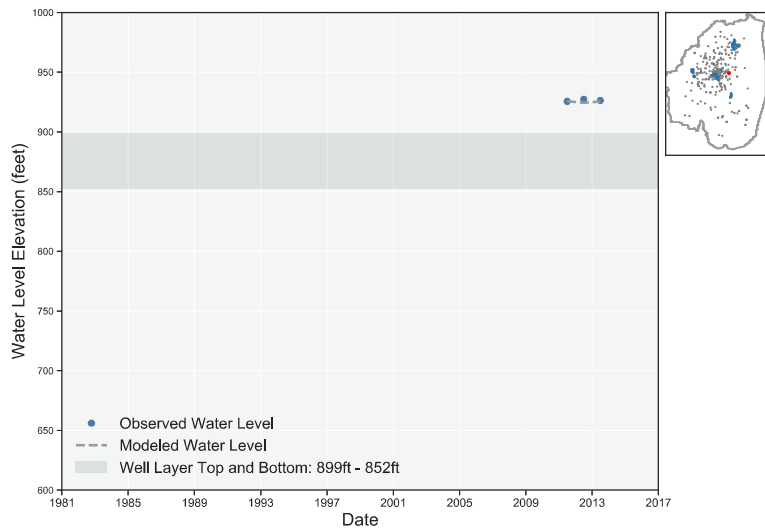
Well 405703 - Aq: OSTP Layers: 5 - 5



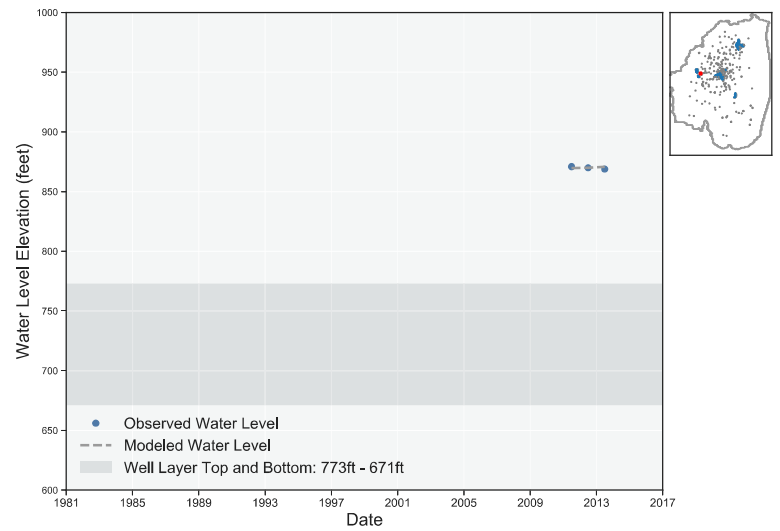
Well 504153 - Aq: OSTP Layers: 5 - 5



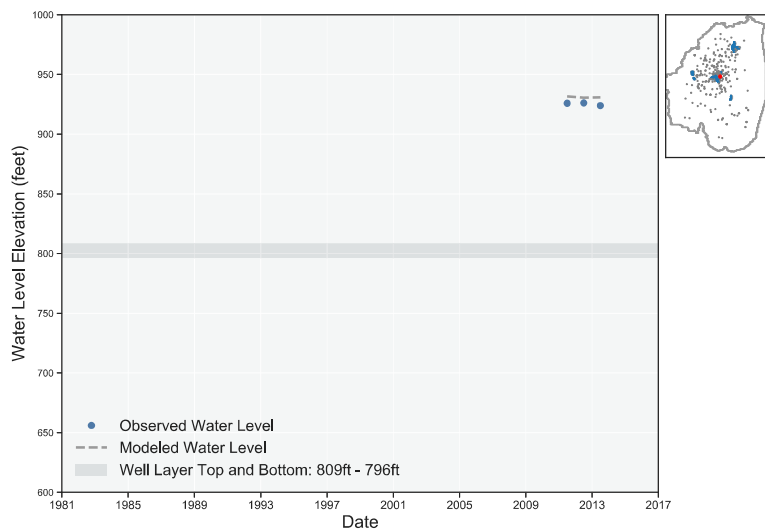
Well 136141 - Aq: OSTP Layers: 5 - 5



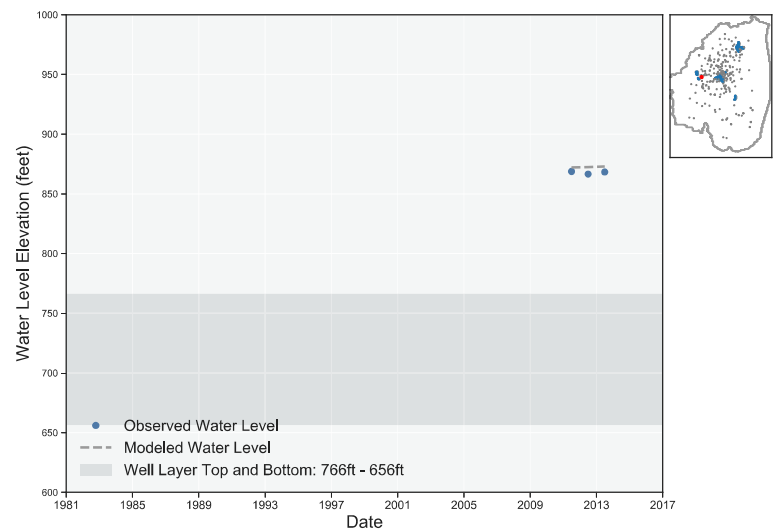
Well 436585 - Aq: QBAA Layers: 5 - 5



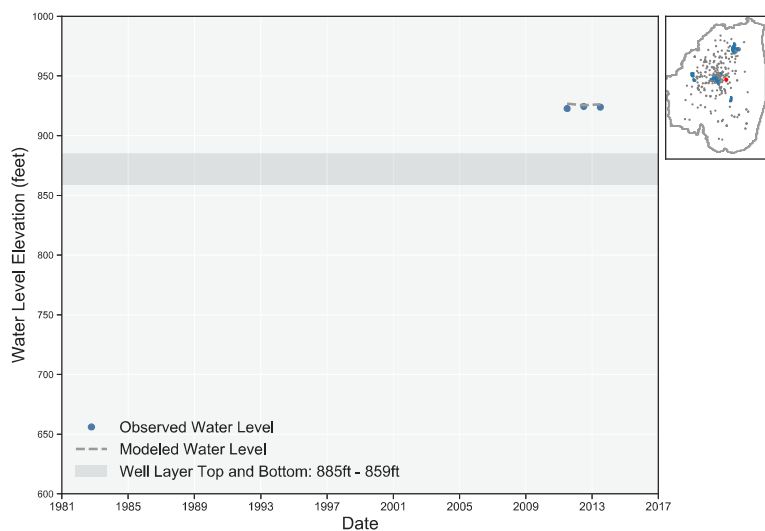
Well 112342 - Aq: OSTP Layers: 5 - 5



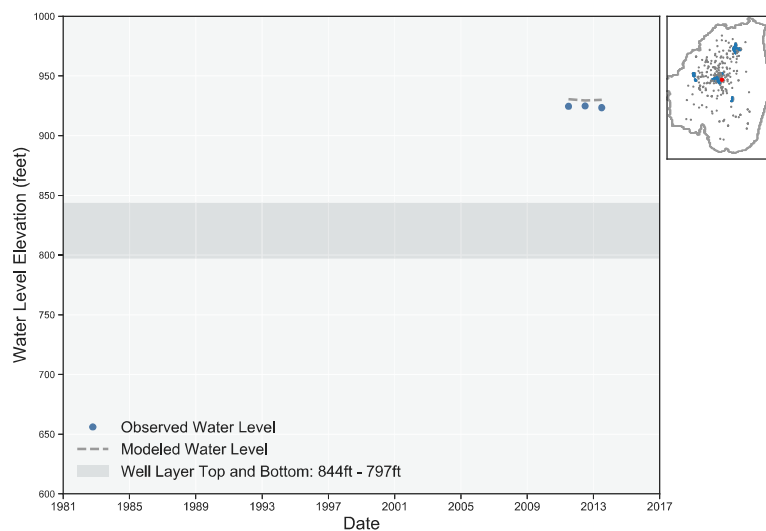
Well 404132 - Aq: QBAA Layers: 5 - 5



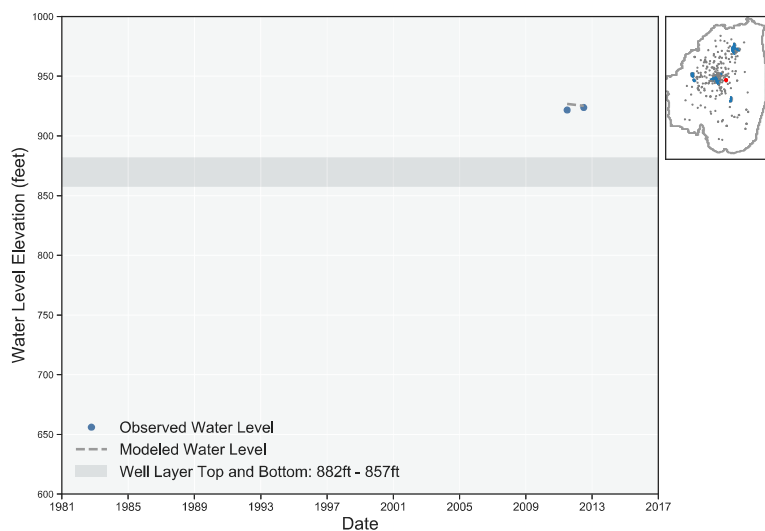
Well 505390 - Aq: OPDC Layers: 5 - 5



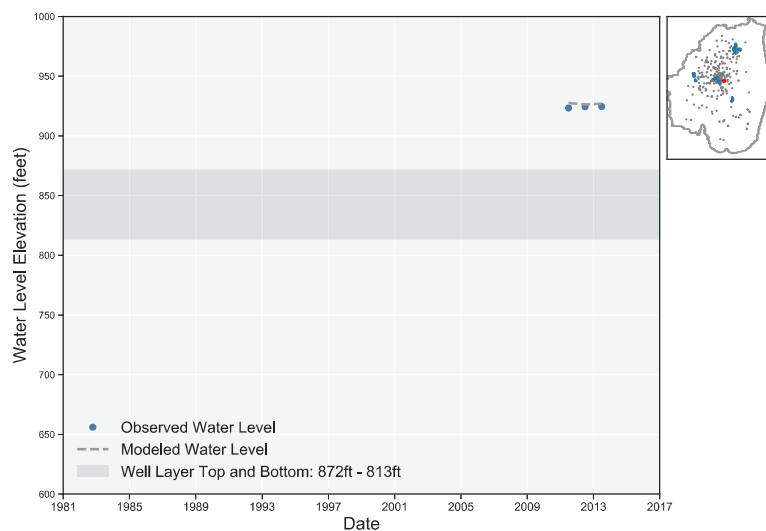
Well 153493 - Aq: OSTP Layers: 5 - 5



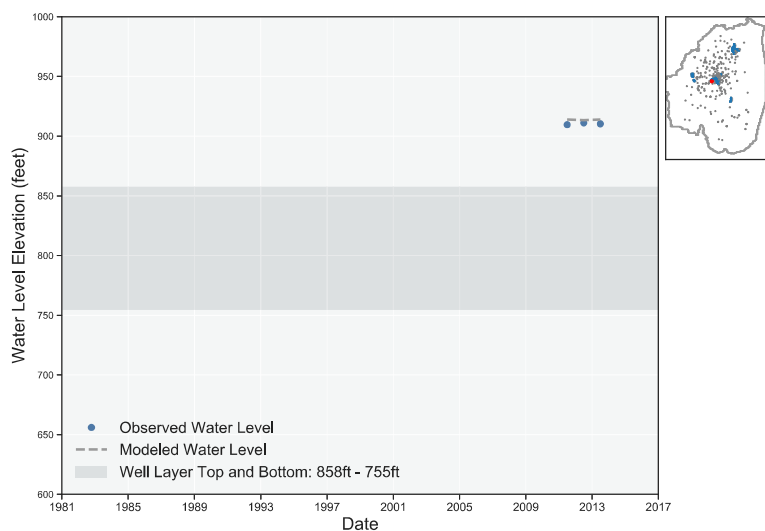
Well 413586 - Aq: OSTP Layers: 5 - 5



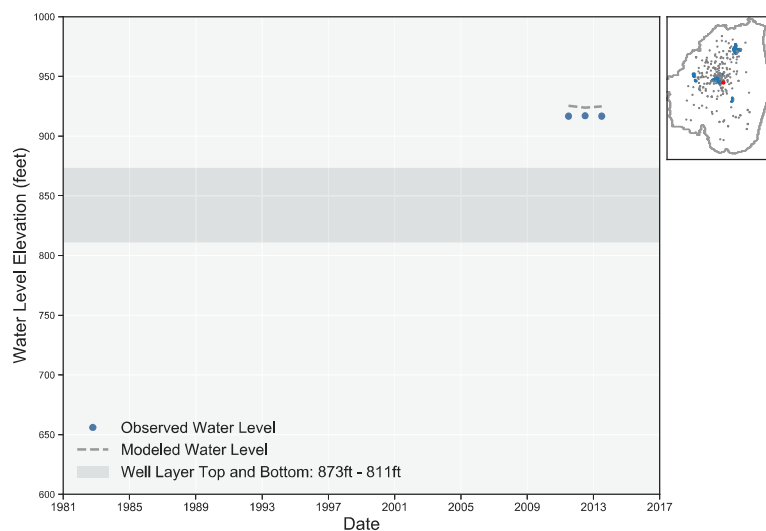
Well 182961 - Aq: OSTP Layers: 5 - 5



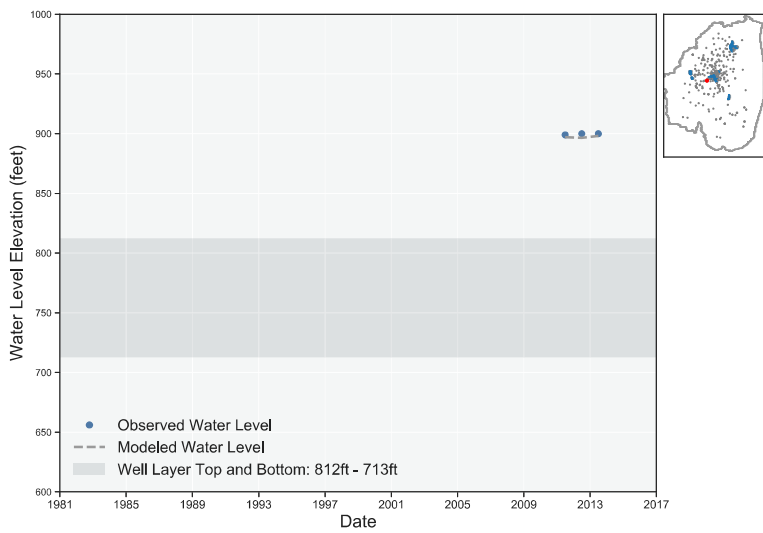
Well 504197 - Aq: OSTP Layers: 5 - 5



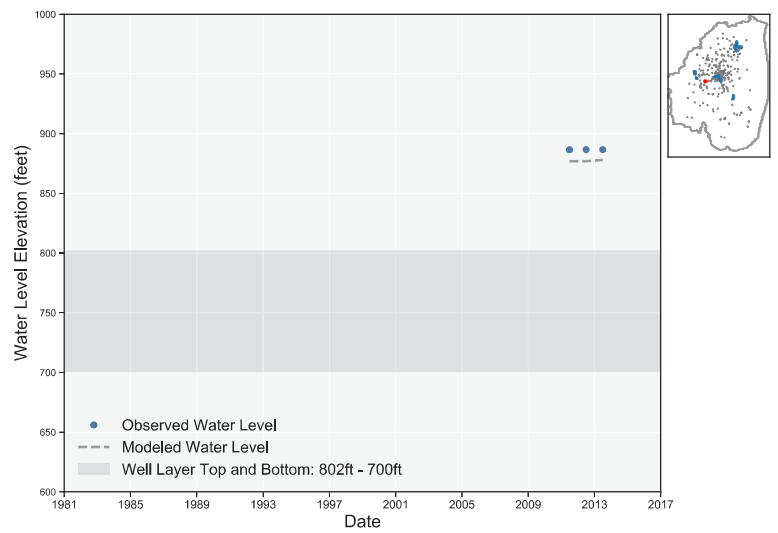
Well 136122 - Aq: OSTP Layers: 5 - 5



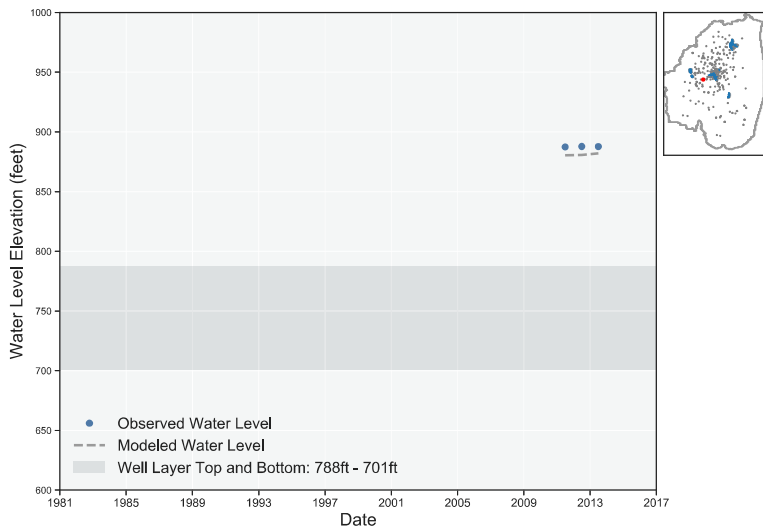
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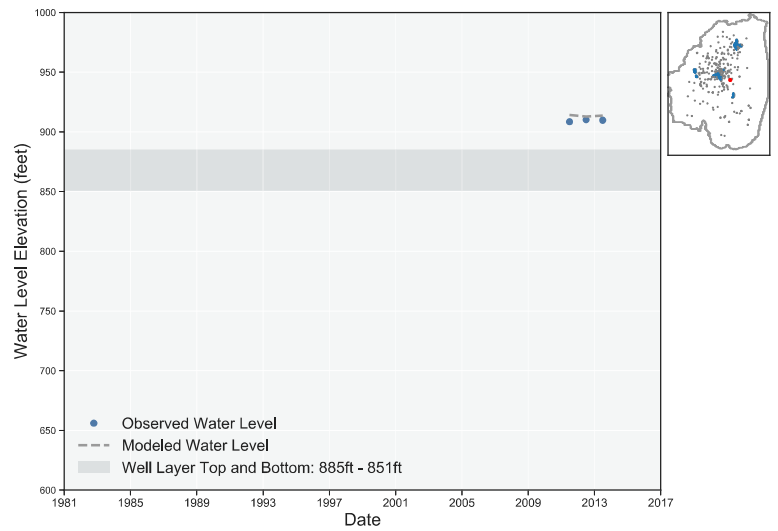
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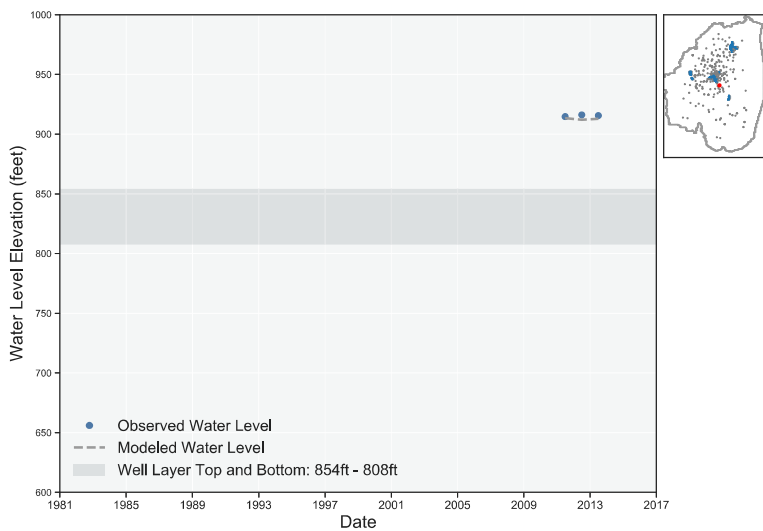
Well 448228 - Aq: QBAA Layers: 5 - 5



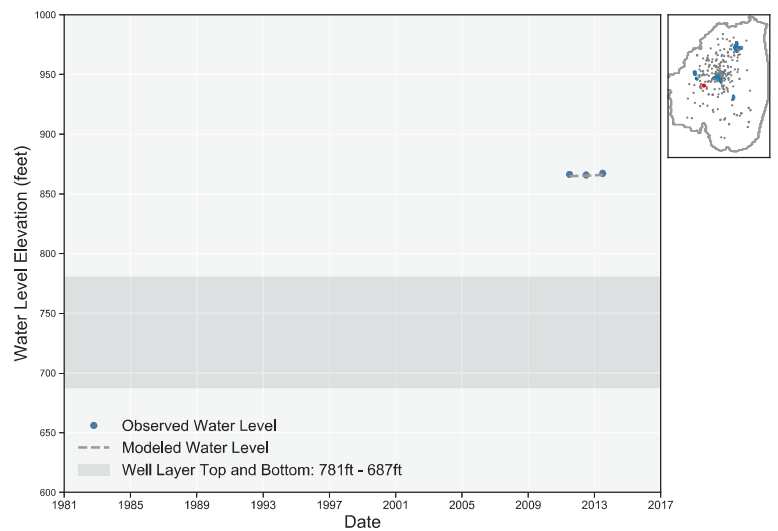
Well 130876 - Aq: OSTP Layers: 5 - 5



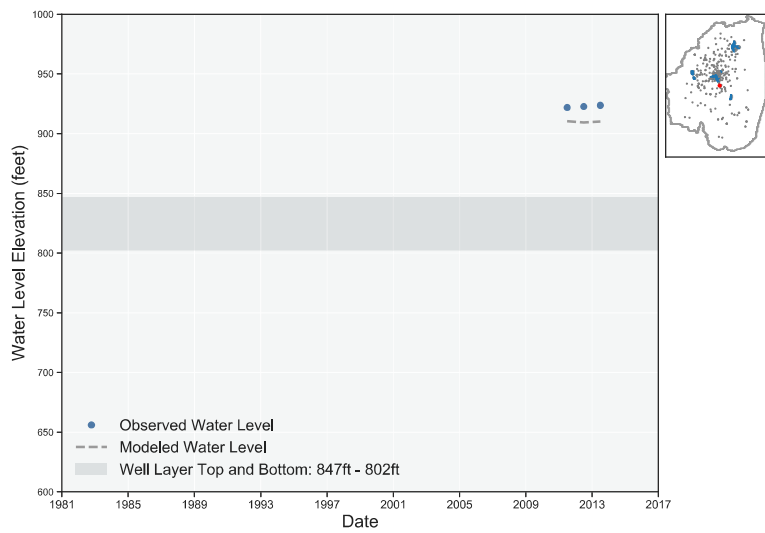
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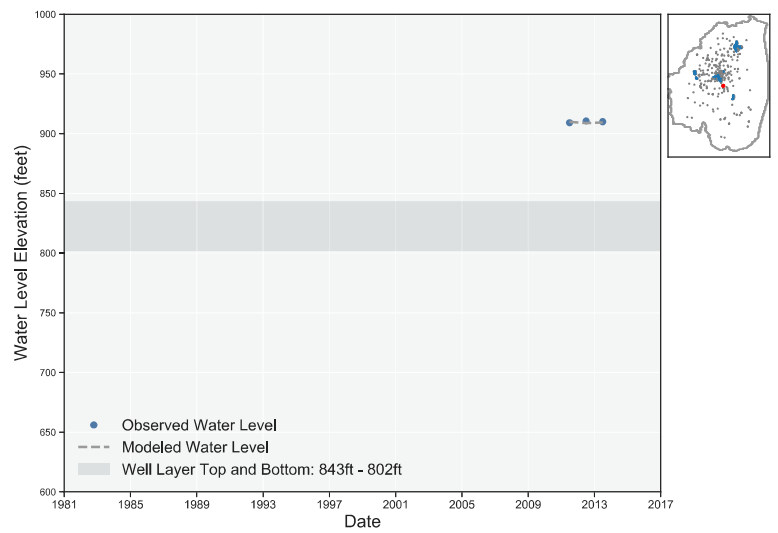
Well 138190 - Aq: OSTP Layers: 5 - 5



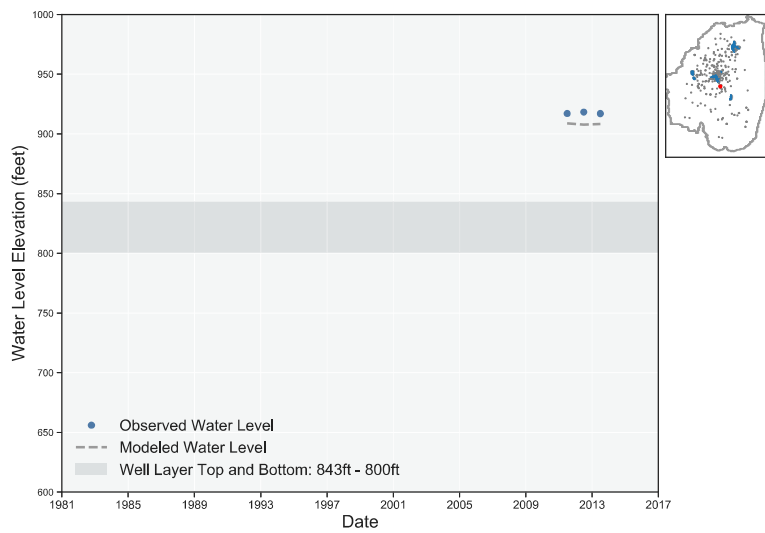
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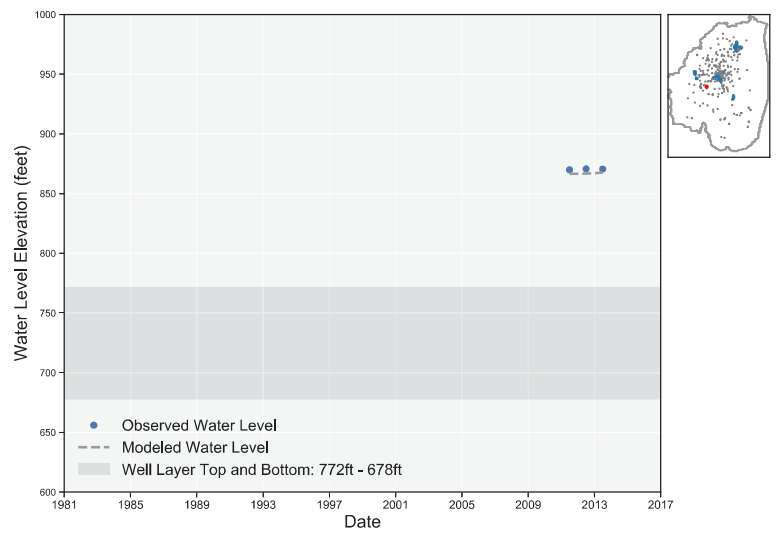
Well 418556 - Aq: OSTP Layers: 5 - 5



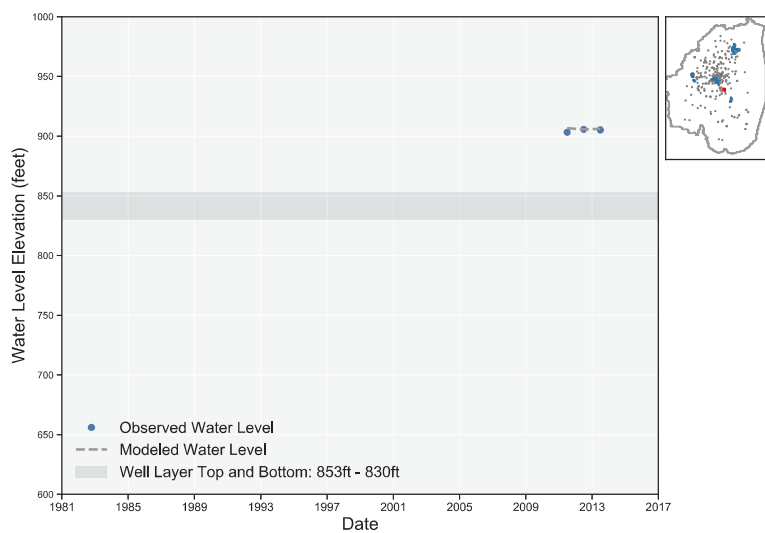
Well 127569 - Aq: OSTP Layers: 5 - 5



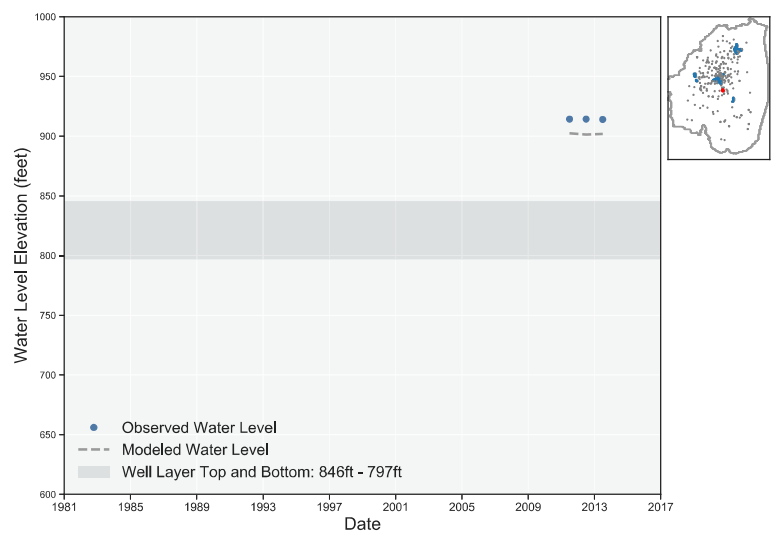
Well 130905 - Aq: OSTP Layers: 5 - 5



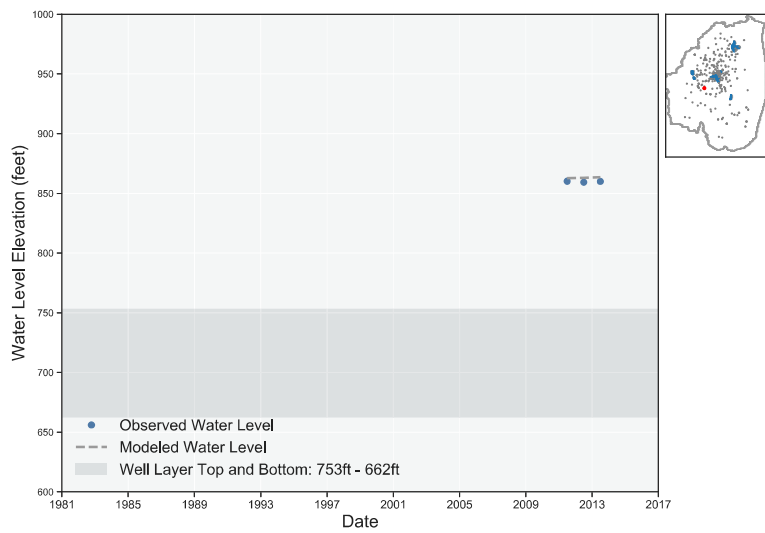
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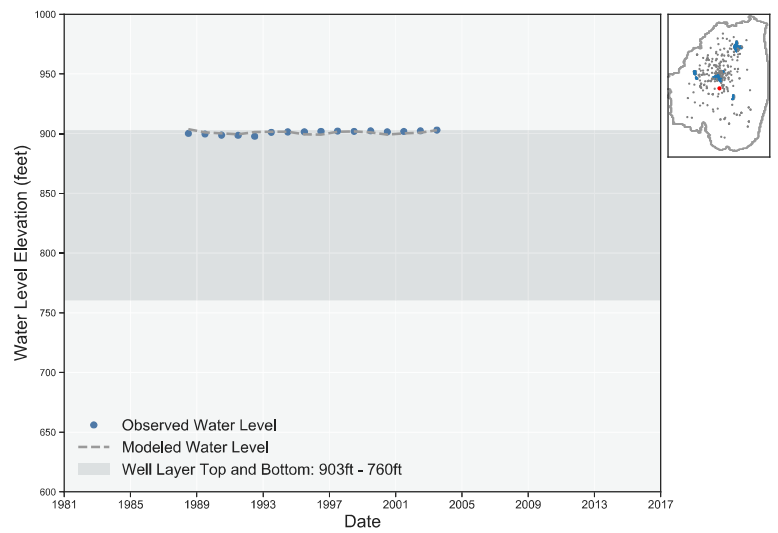
Well 153486 - Aq: QBAA Layers: 5 - 5



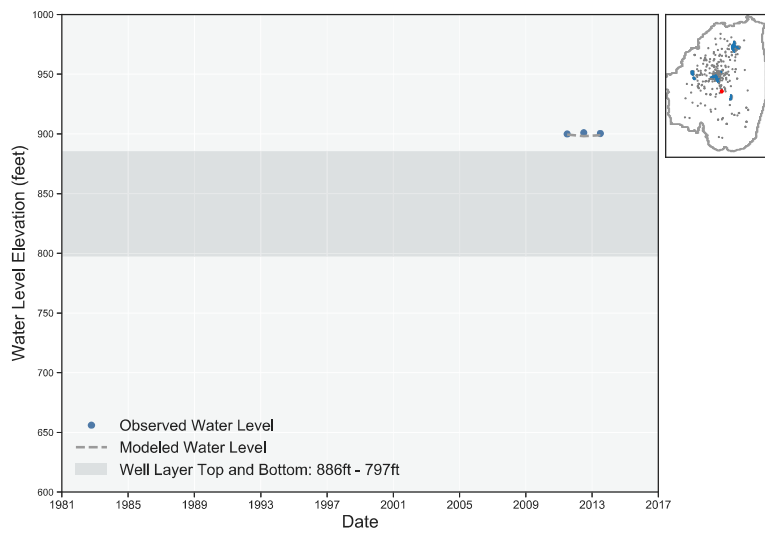
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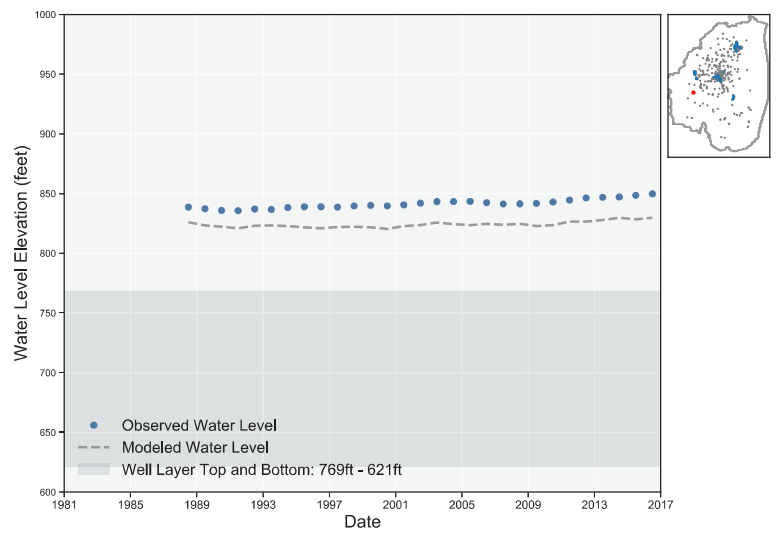
Well 82005 - Aq: OSTP Layers: 5 - 5



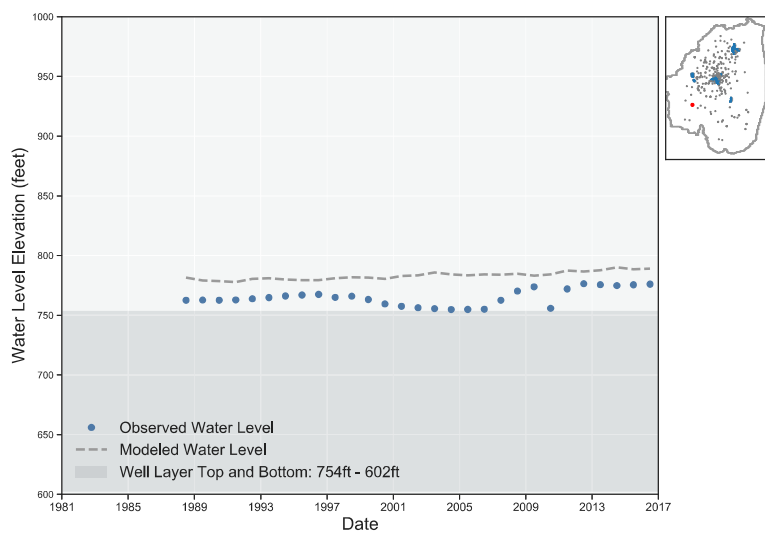
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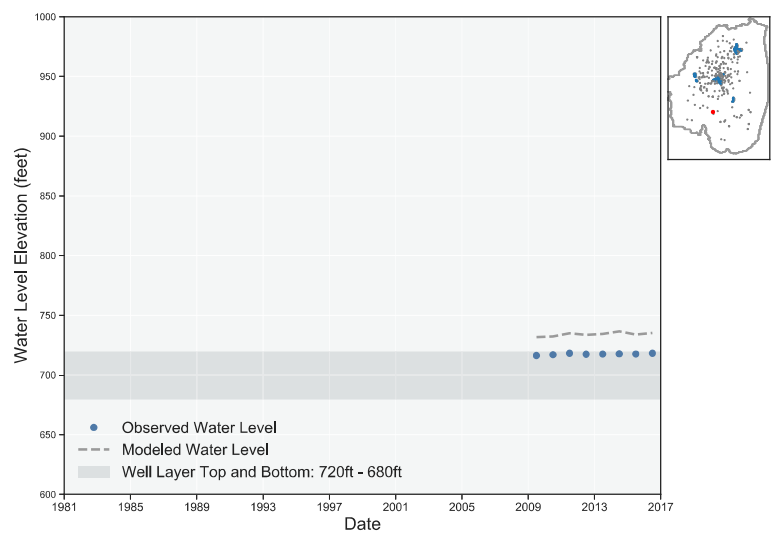
Well 62002 - Aq: OSTP Layers: 5 - 5



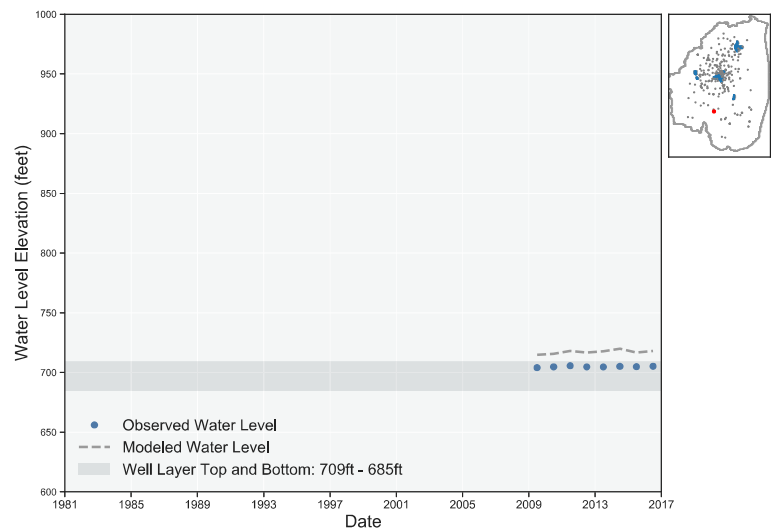
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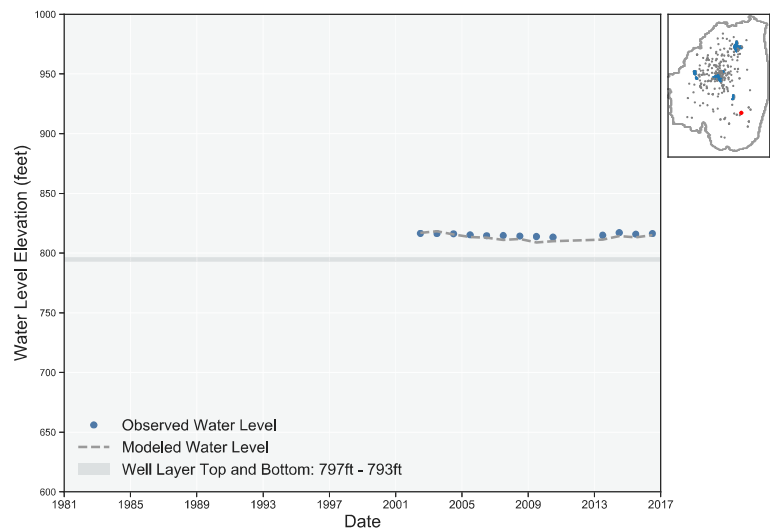
Well 62050 - Aq: OSTP Layers: 5 - 5



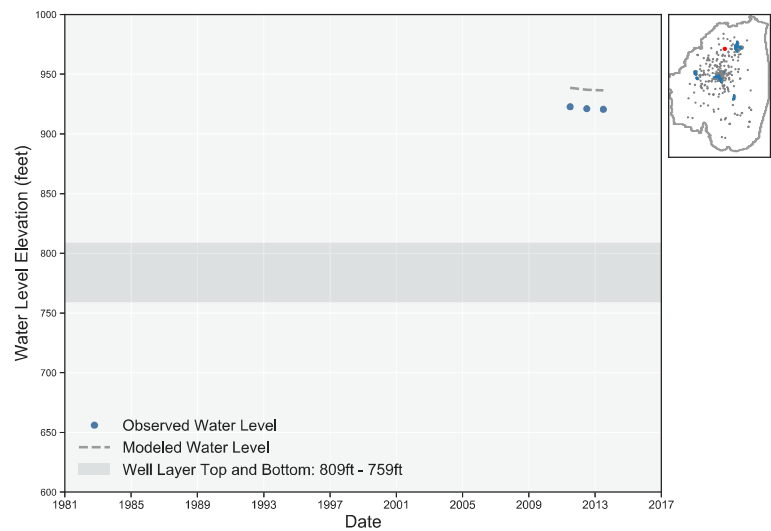
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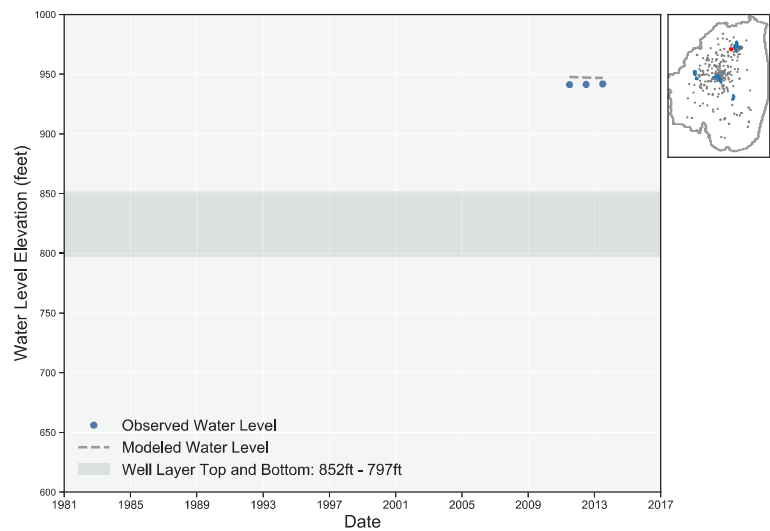
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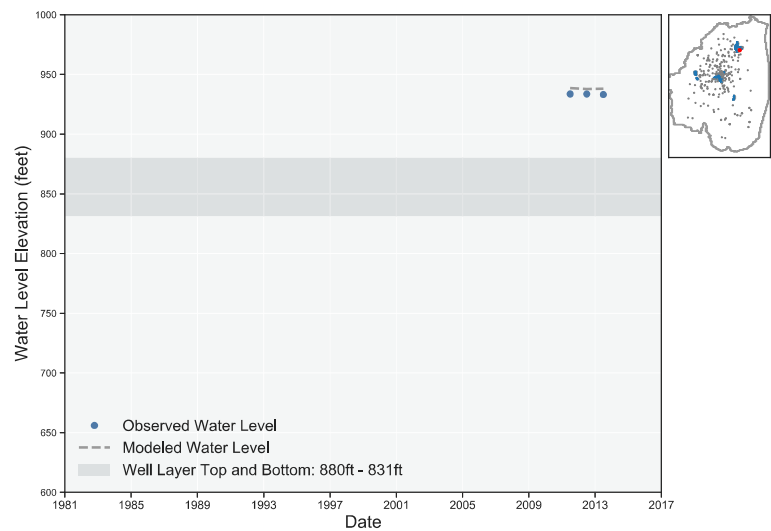
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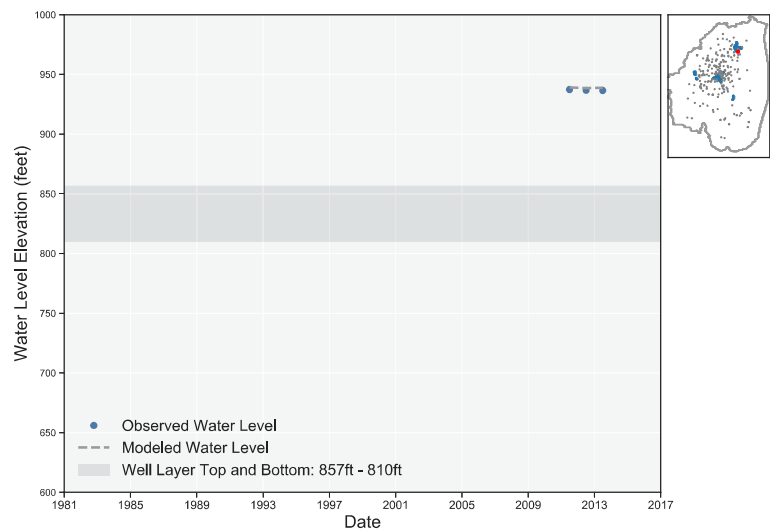
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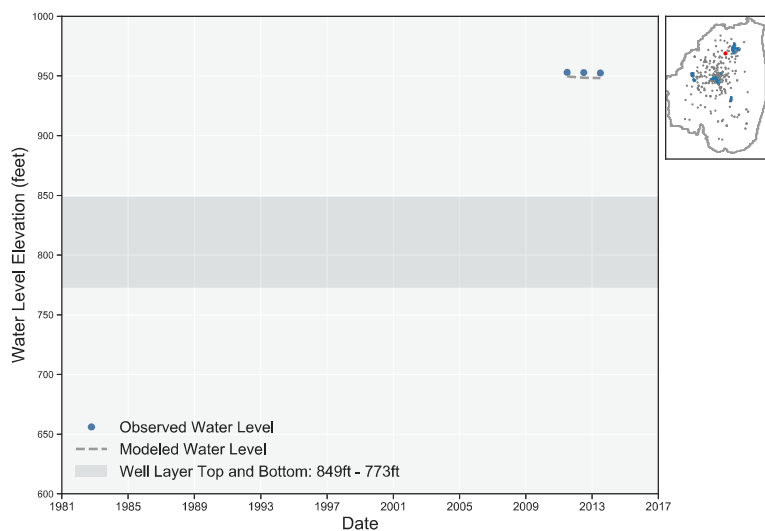
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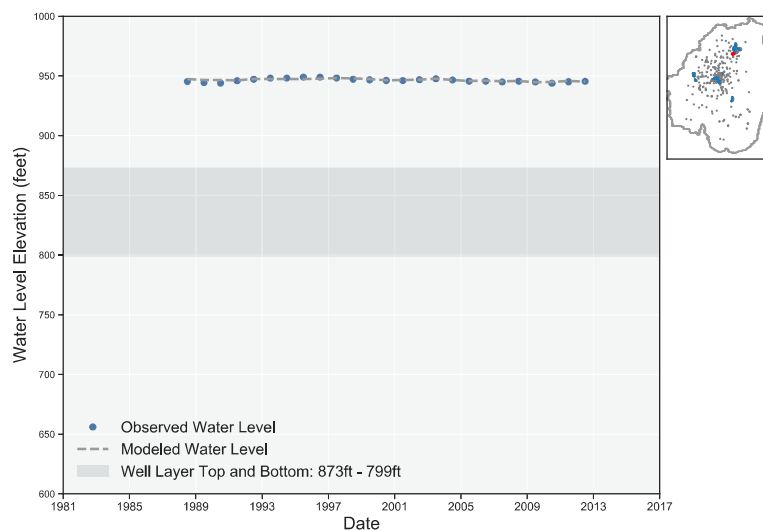
Well 435109 - Aq: OPDC Layers: 6 - 6



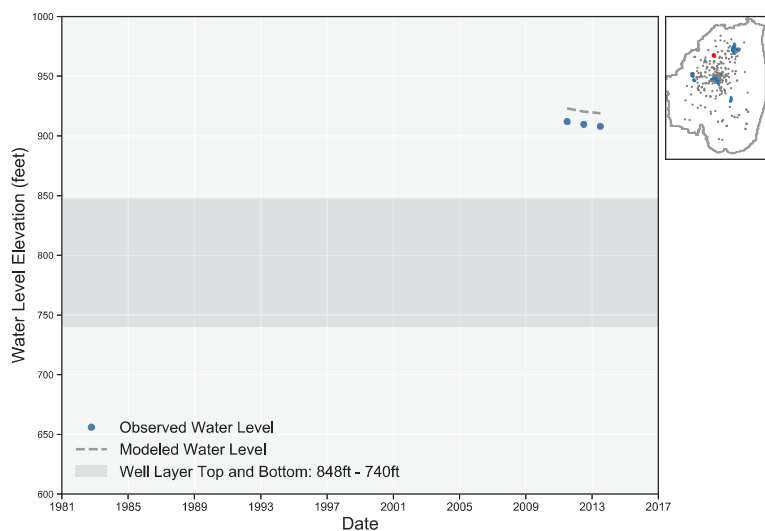
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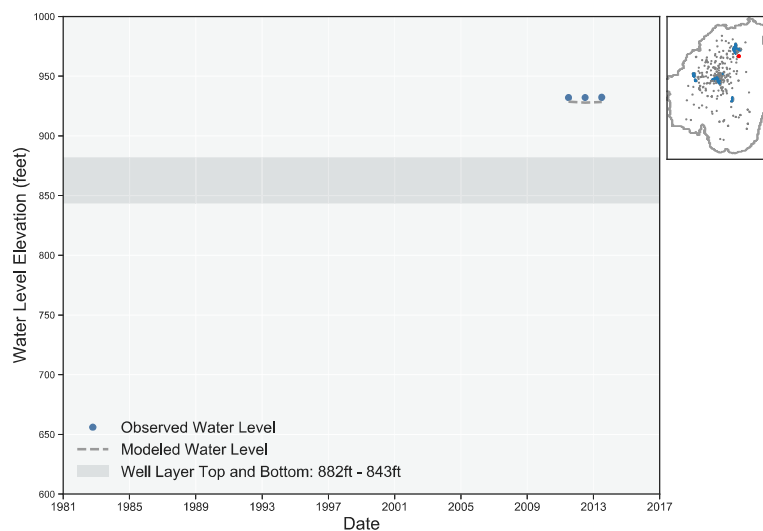
Well 82035 - Aq: OPDC Layers: 6 - 6



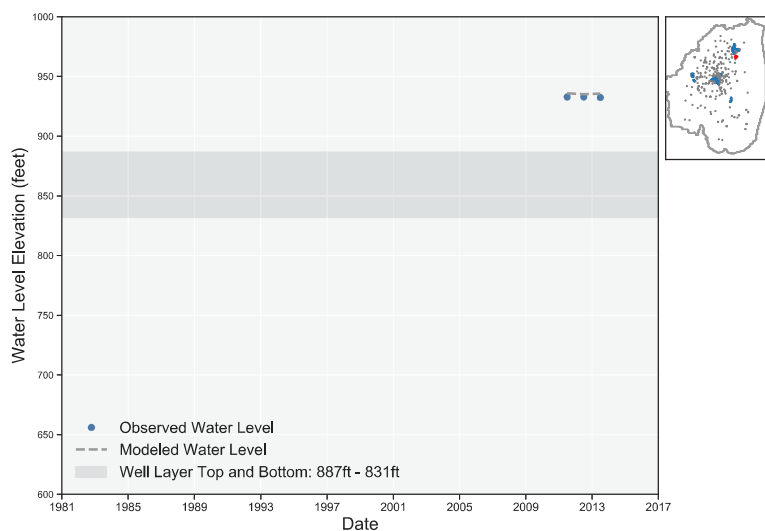
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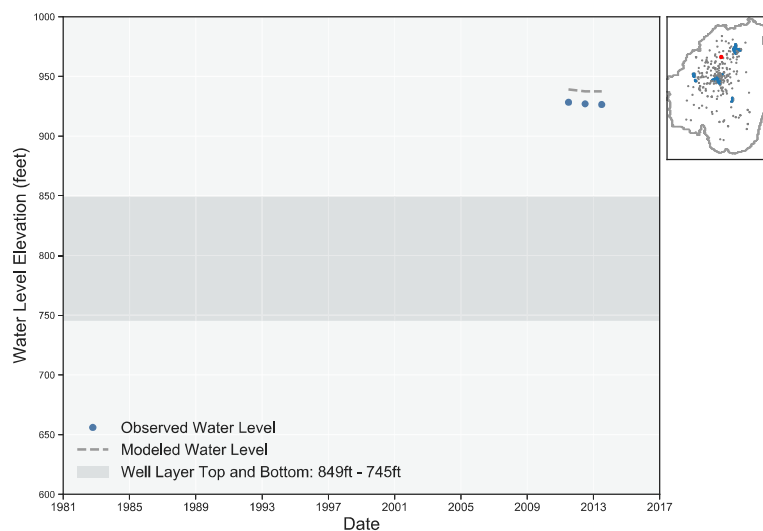
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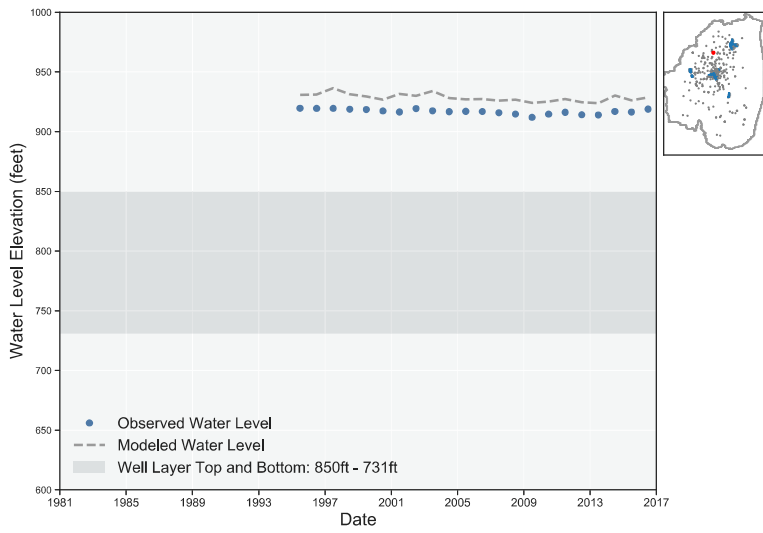
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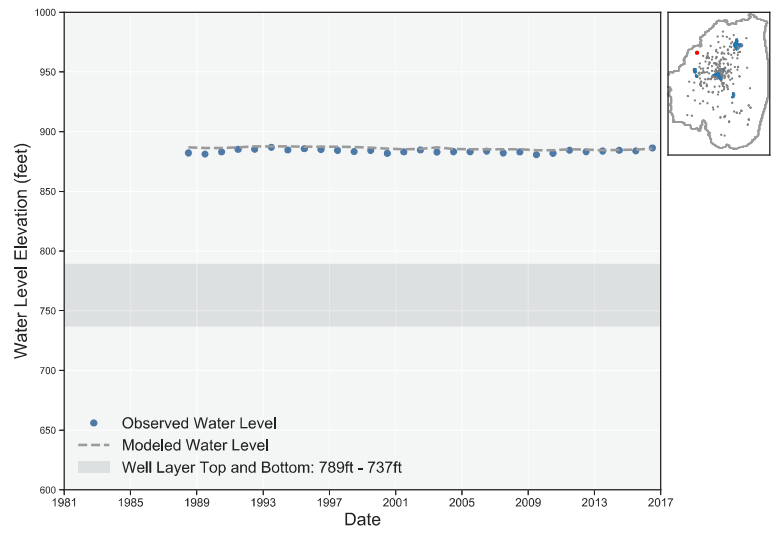
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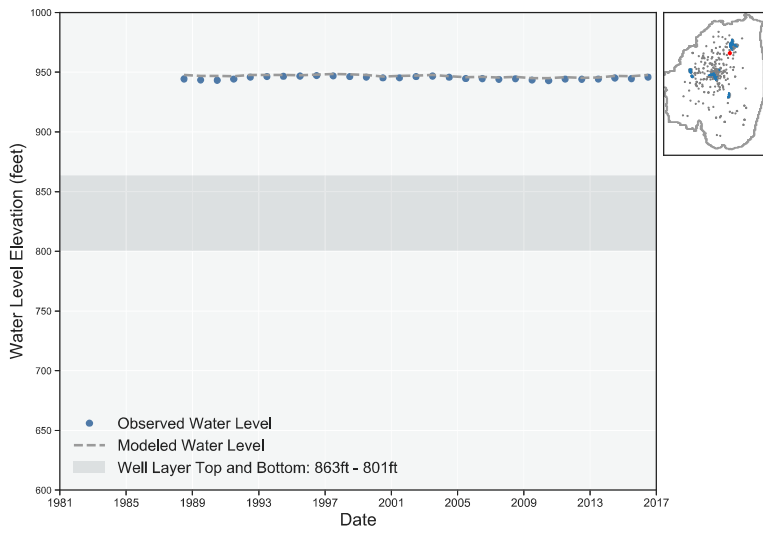
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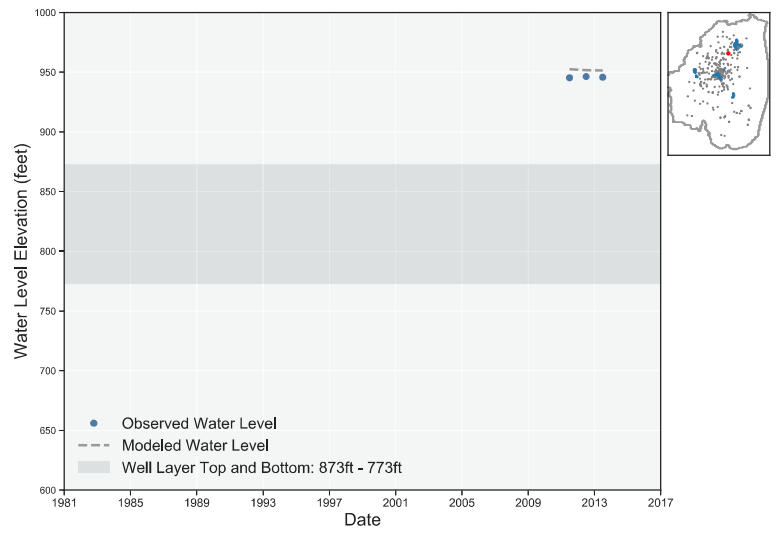
Well 2009 - Aq: QBAA Layers: 6 - 6



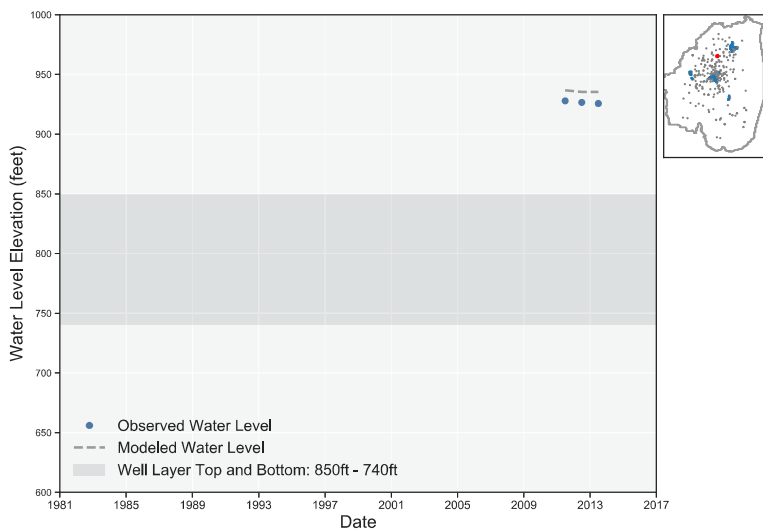
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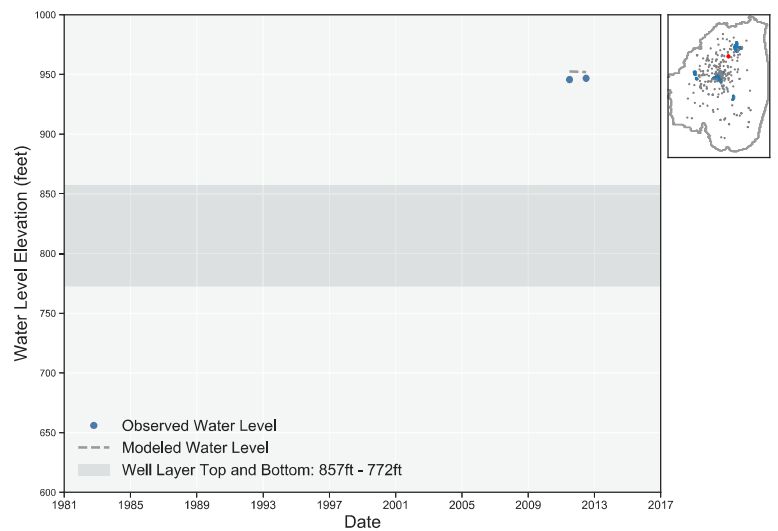
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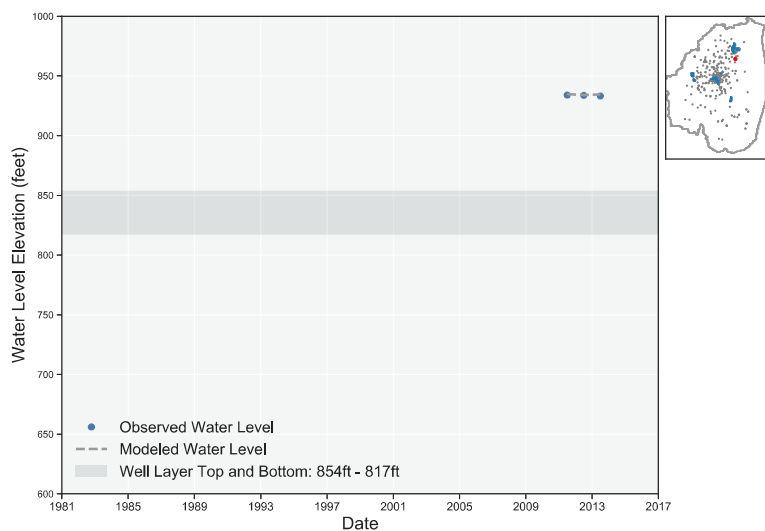
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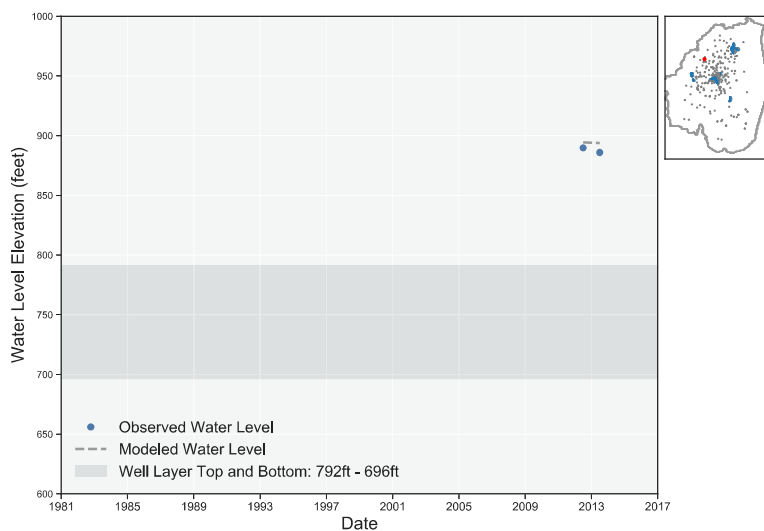
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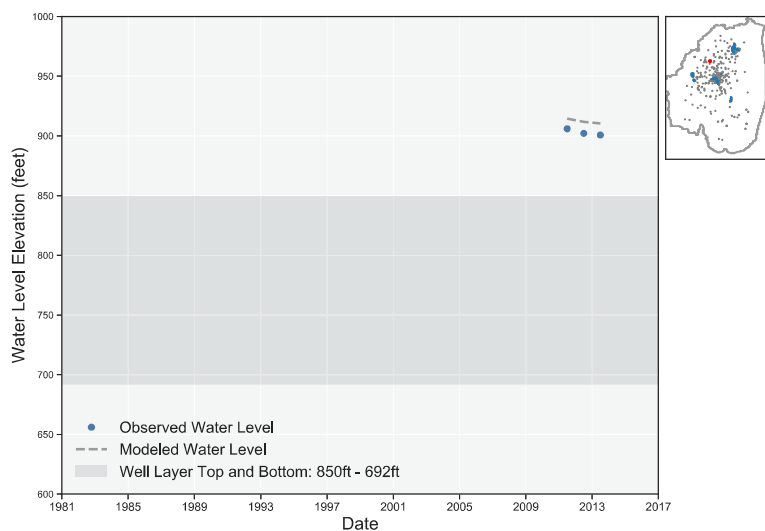
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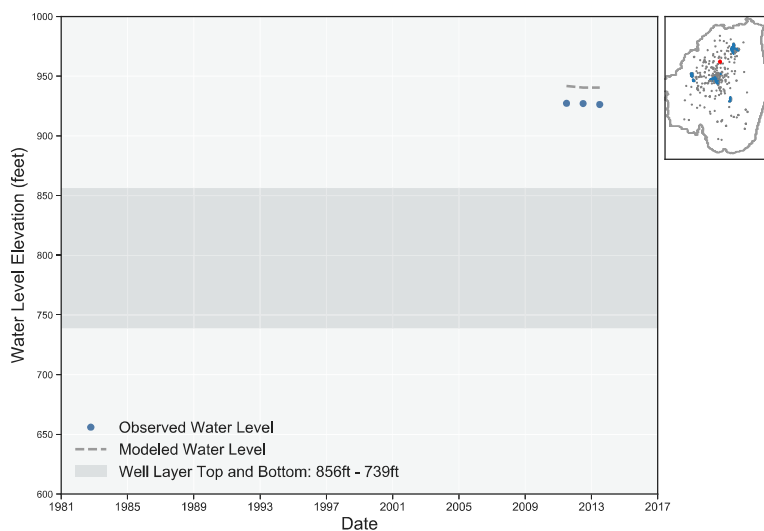
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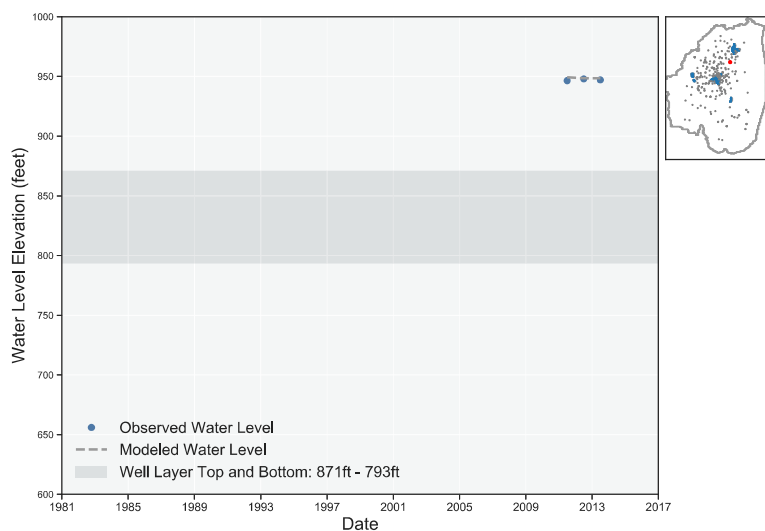
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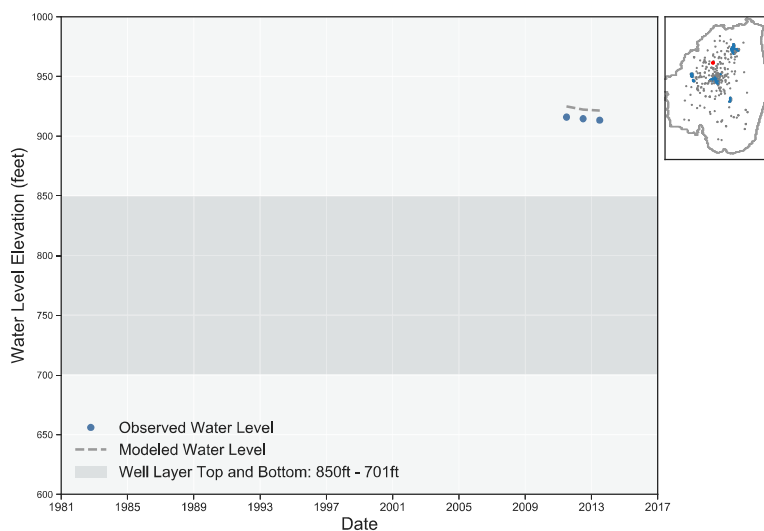
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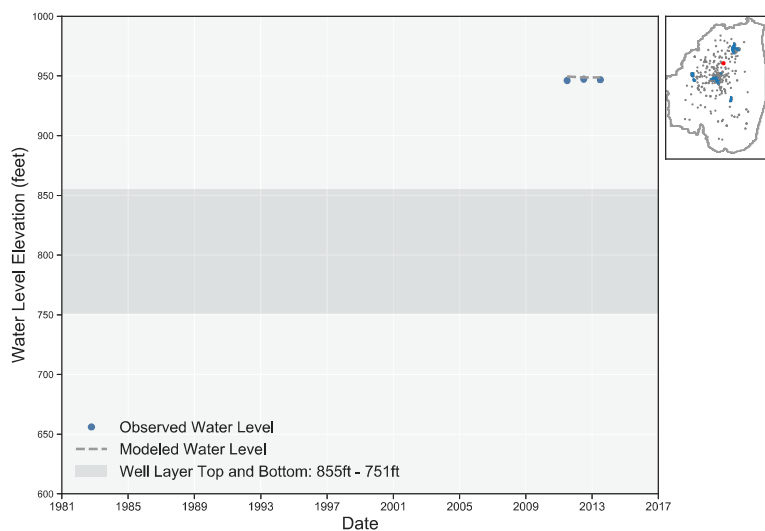
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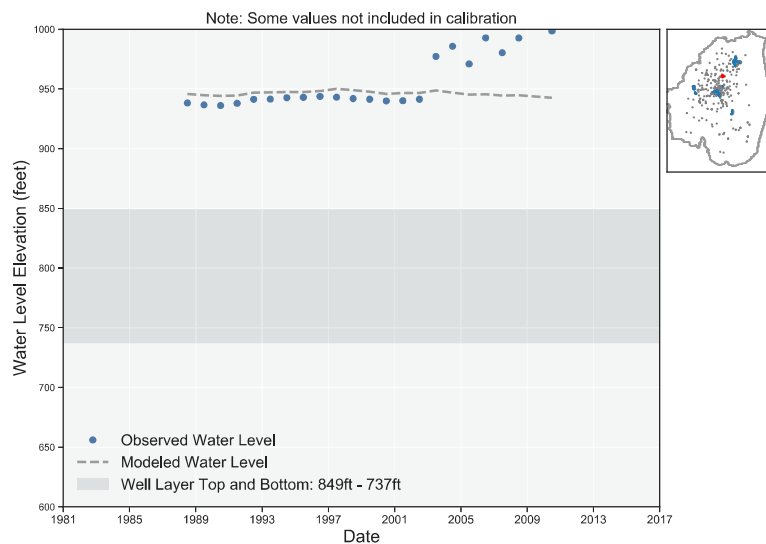
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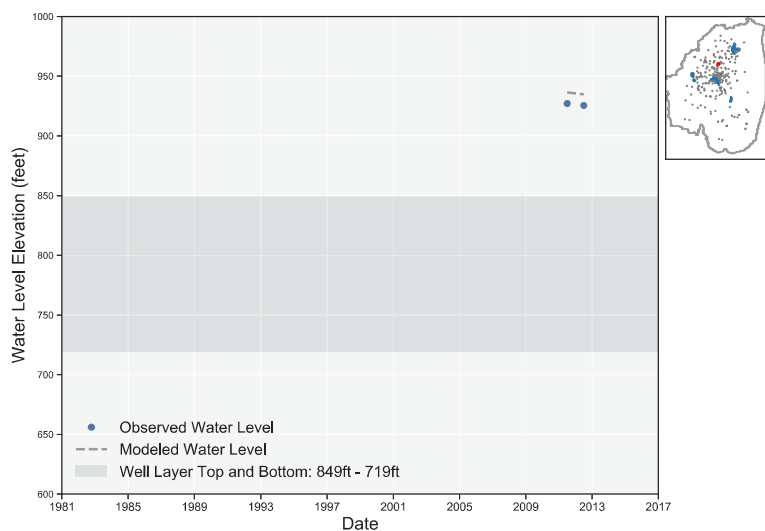
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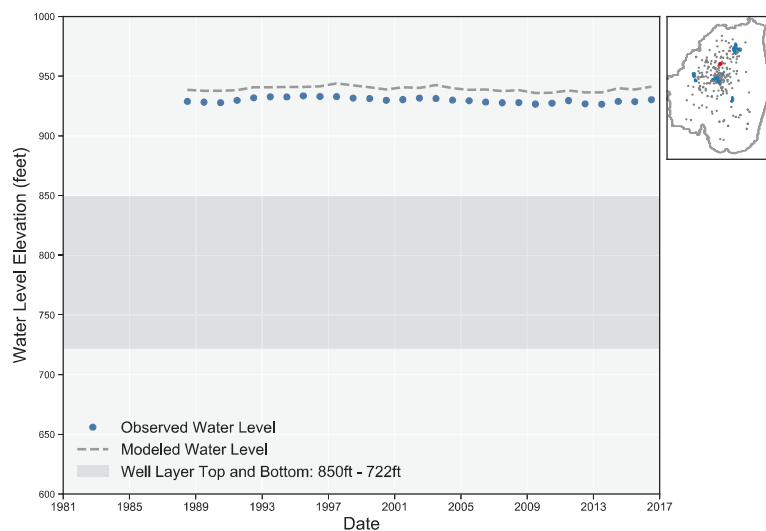
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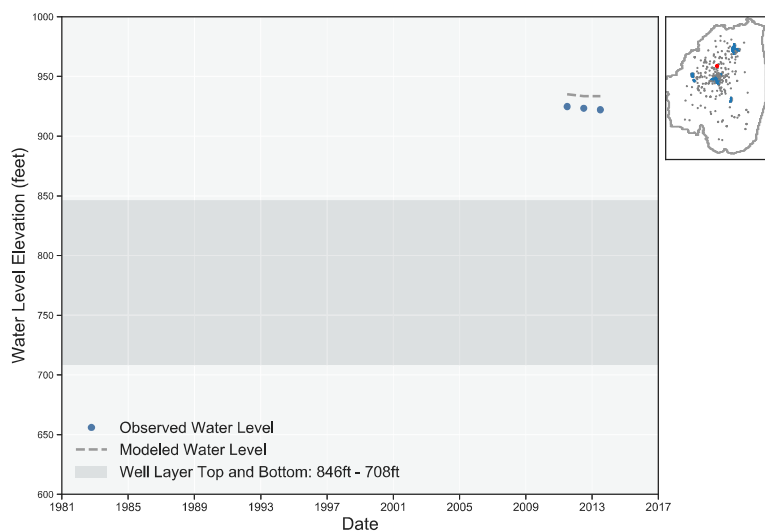
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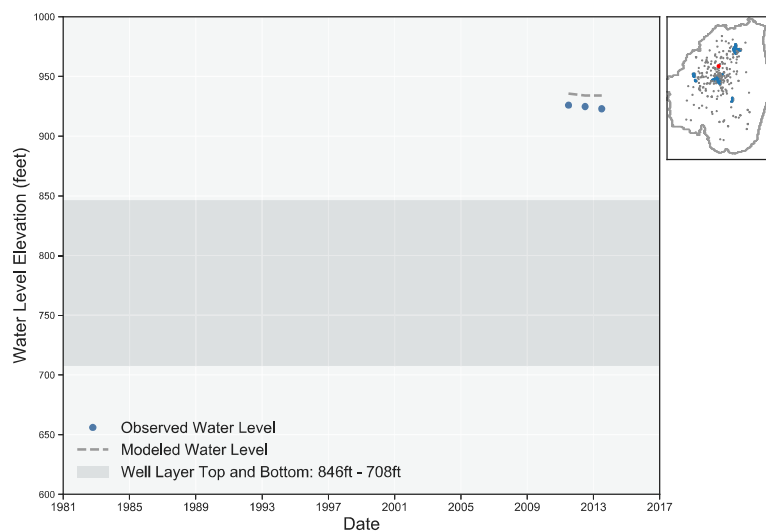
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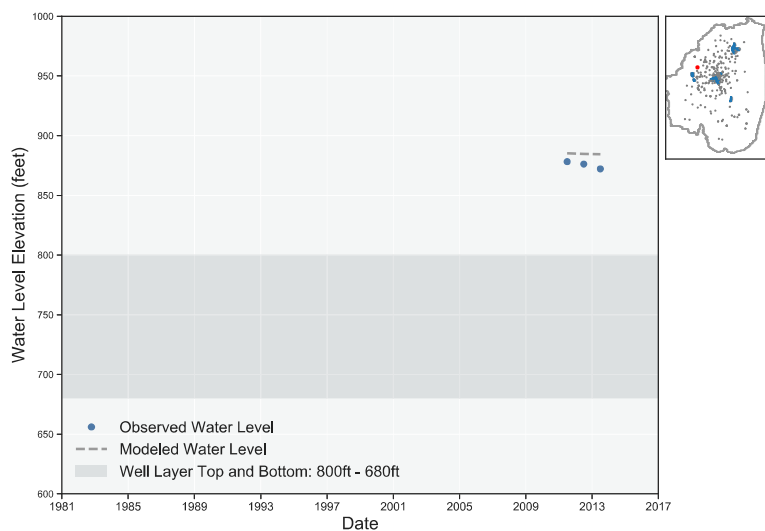
Well 141730 - Aq: OPDC Layers: 6 - 6



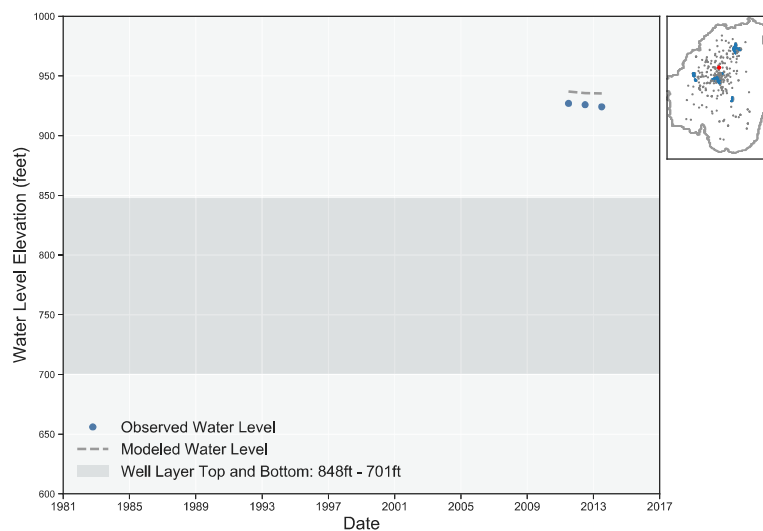
Well 138120 - Aq: OPDC Layers: 6 - 6



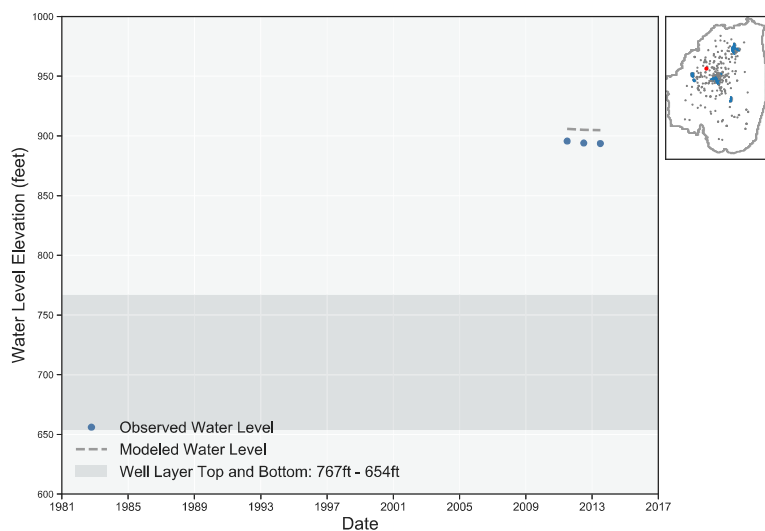
Well 170633 - Aq: OPDC Layers: 6 - 6



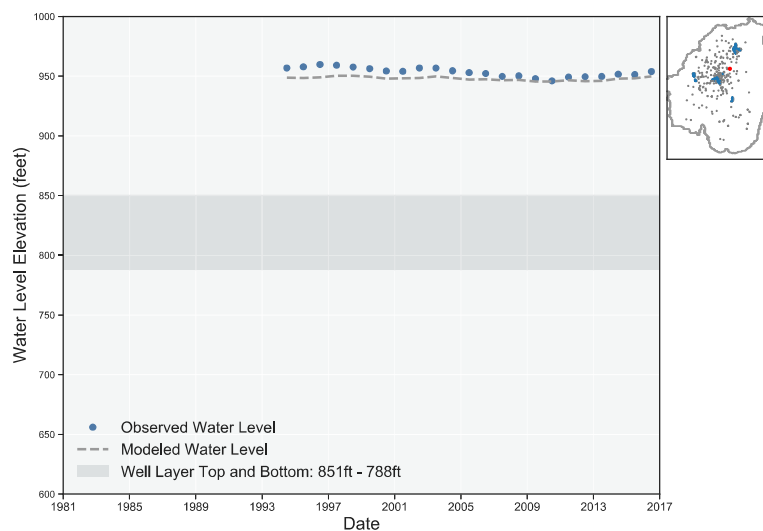
Well 439243 - Aq: OPDC Layers: 6 - 6



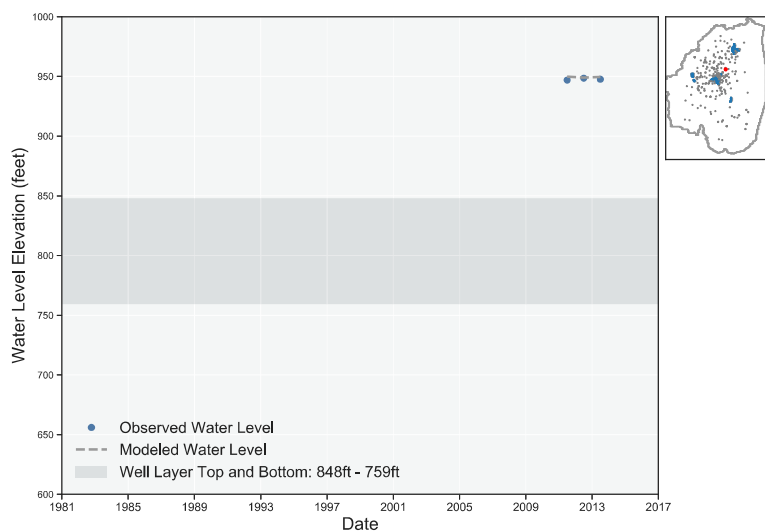
Well 138399 - Aq: OPDC Layers: 6 - 6



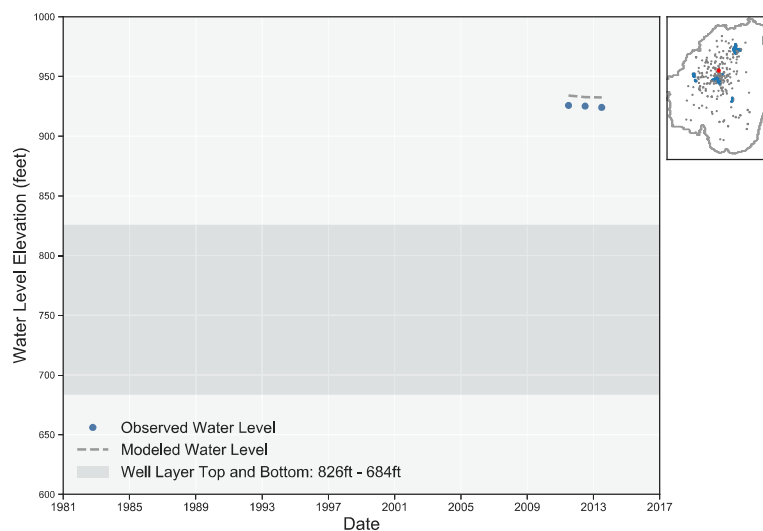
Well 82039 - Aq: OPDC Layers: 6 - 6



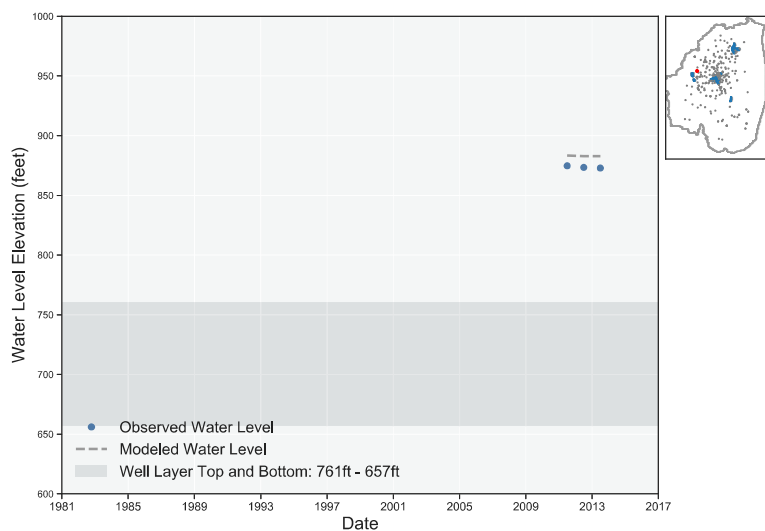
Well 413669 - Aq: OPDC Layers: 6 - 6



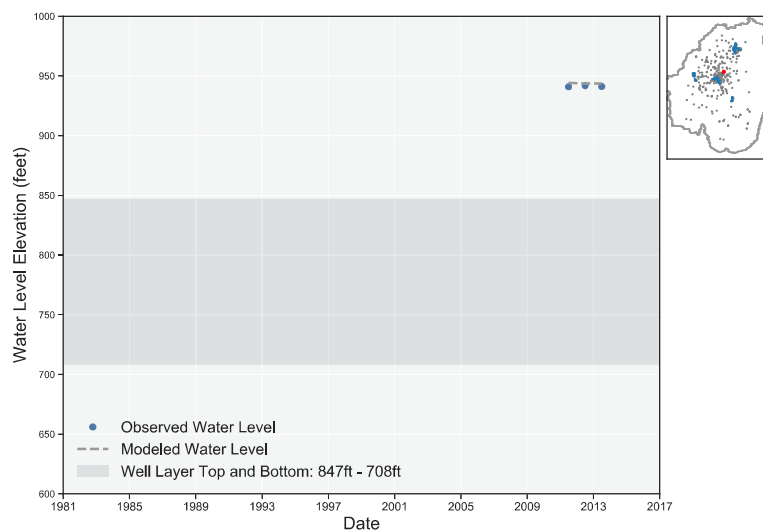
Well 546305 - Aq: OPDC Layers: 6 - 6



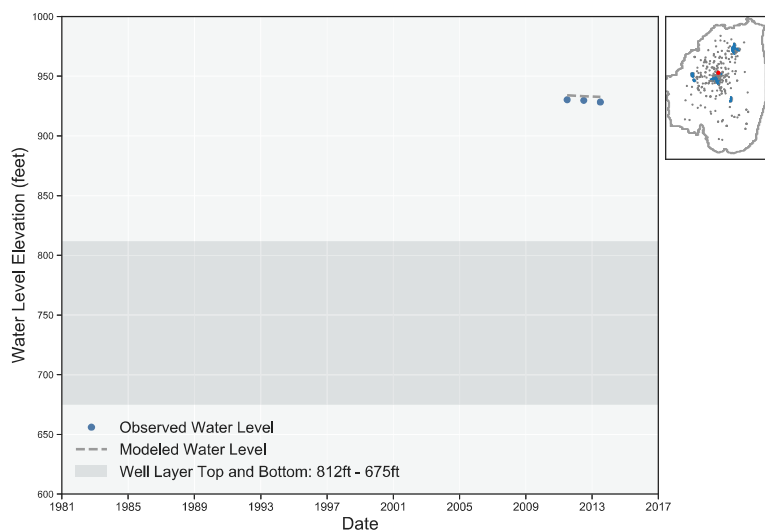
Well 512346 - Aq: OPDC Layers: 6 - 6



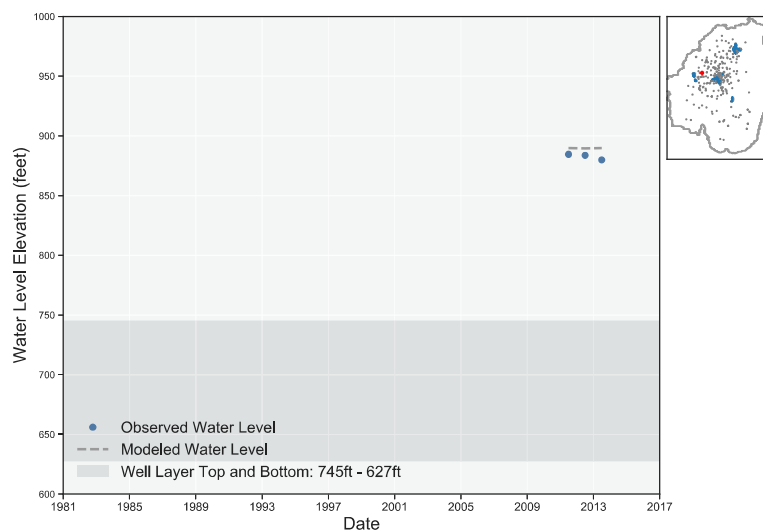
Well 139277 - Aq: OPDC Layers: 6 - 6



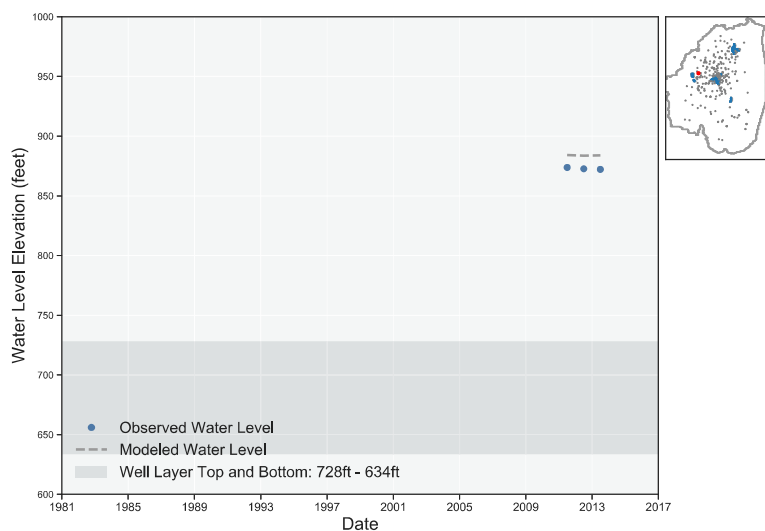
Well 436559 - Aq: OPDC Layers: 6 - 6



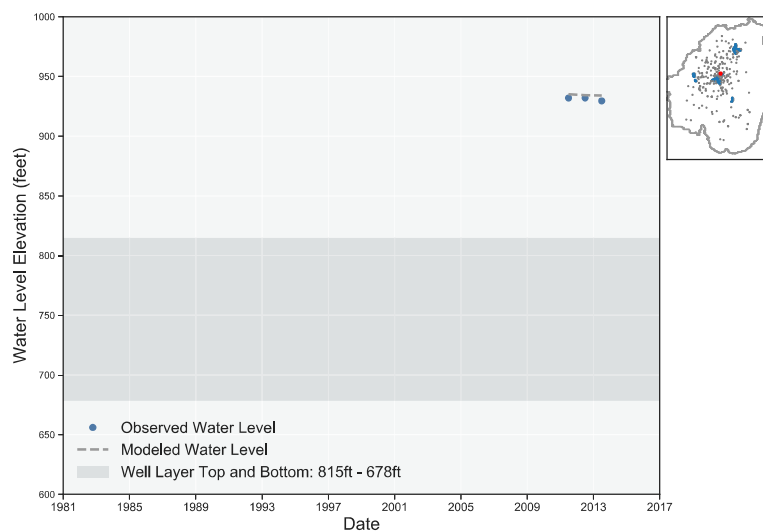
Well 205700 - Aq: OPDC Layers: 6 - 6



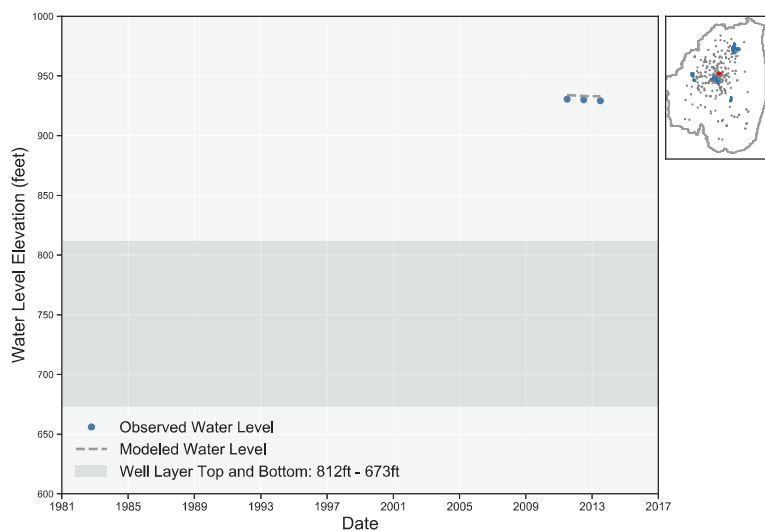
Well 521812 - Aq: OPDC Layers: 6 - 6



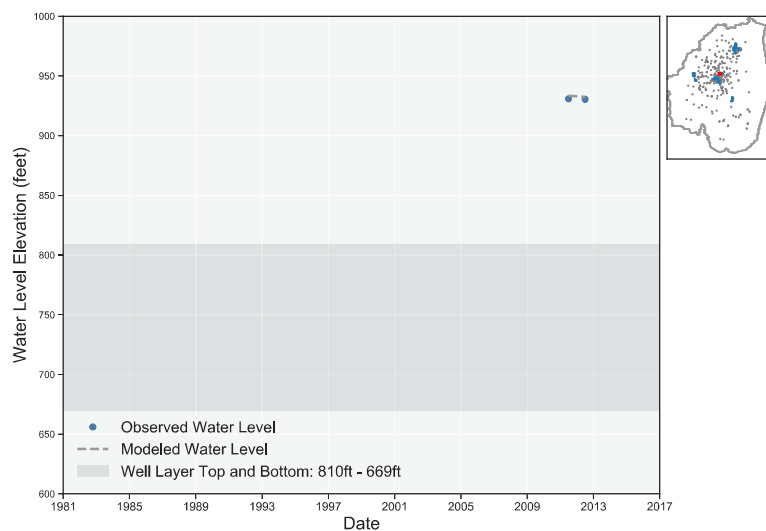
Well 418562 - Aq: OPDC Layers: 6 - 6



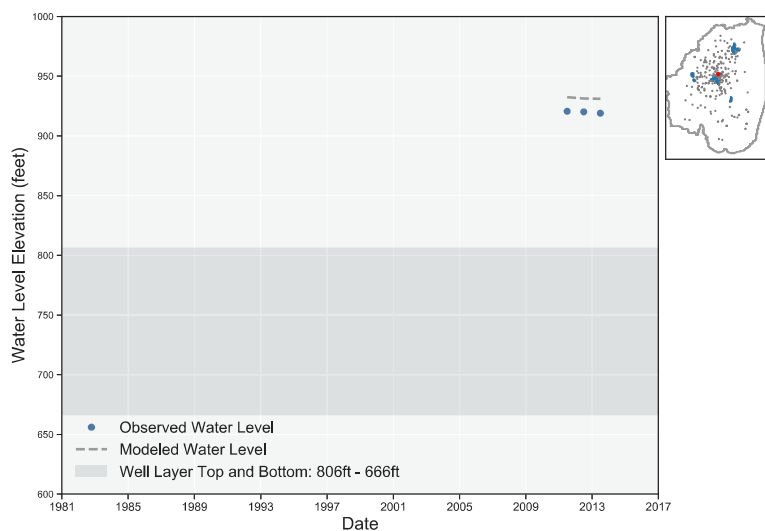
Well 421207 - Aq: OPDC Layers: 6 - 6



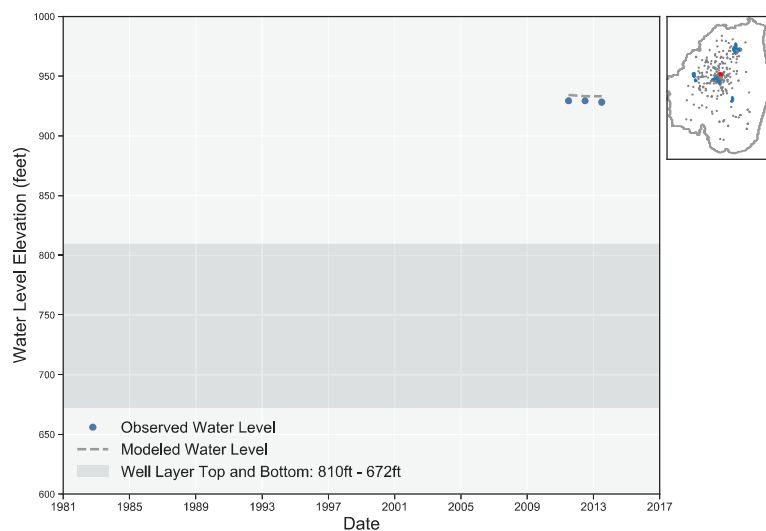
Well 450530 - Aq: OPDC Layers: 6 - 6



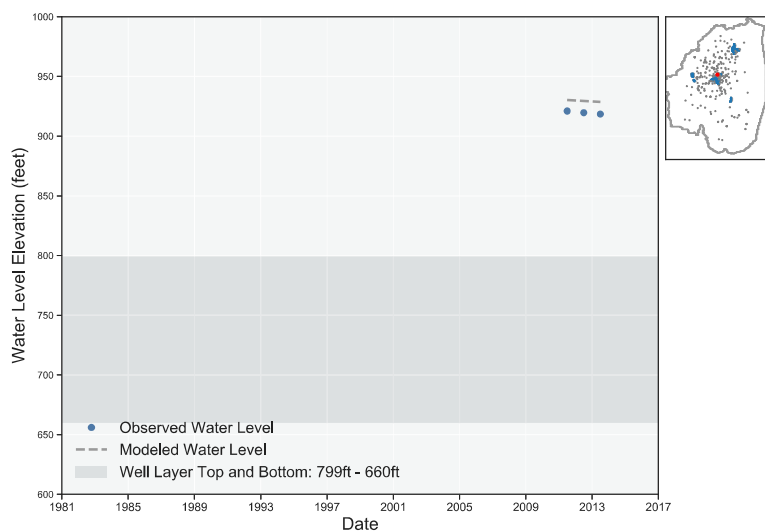
Well 427888 - Aq: OPDC Layers: 6 - 6



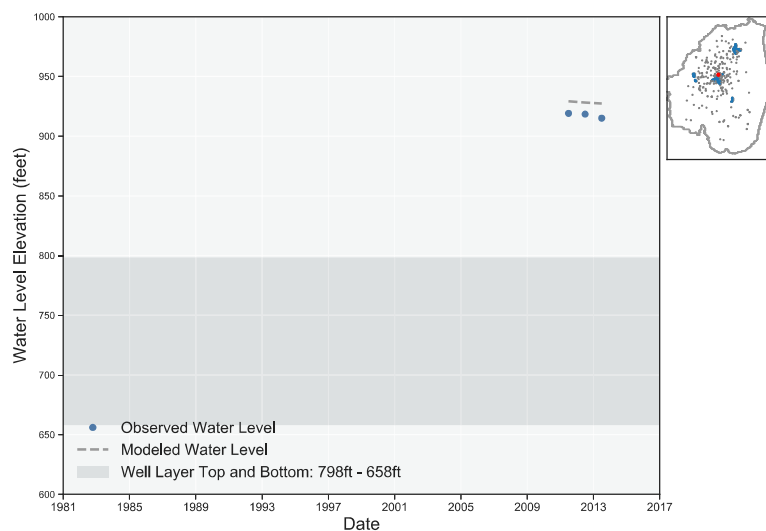
Well 182909 - Aq: OPDC Layers: 6 - 6



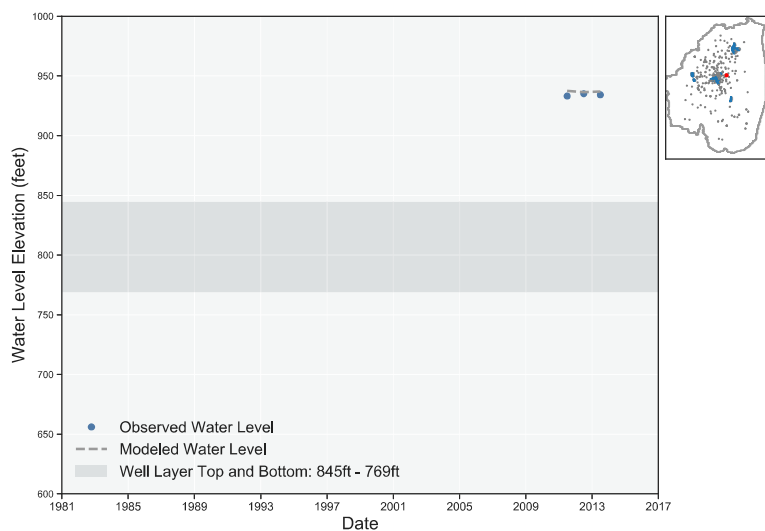
Well 208473 - Aq: OPDC Layers: 6 - 6



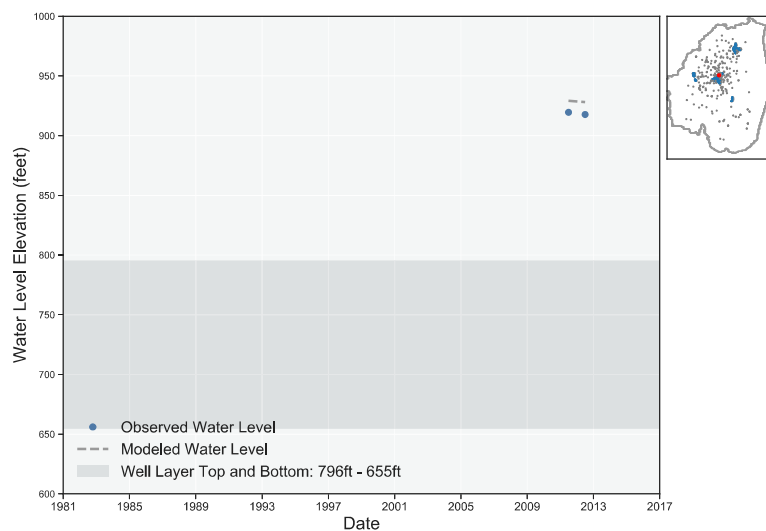
Well 450573 - Aq: OPDC Layers: 6 - 6



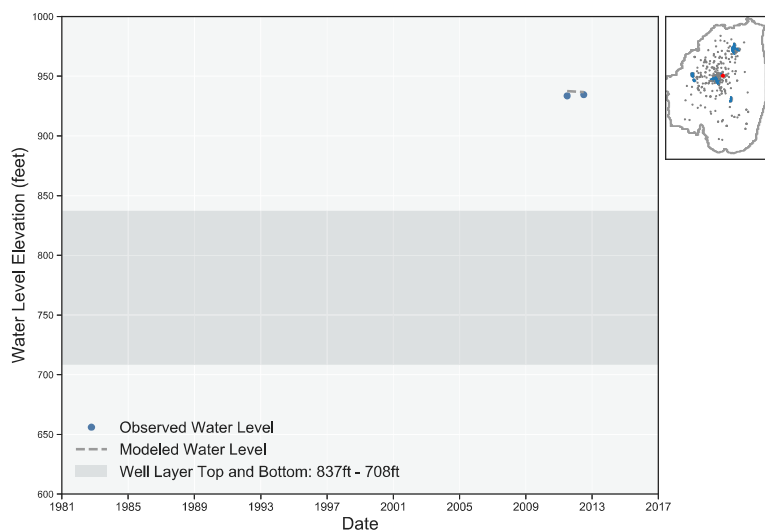
Well 182782 - Aq: OPDC Layers: 6 - 6



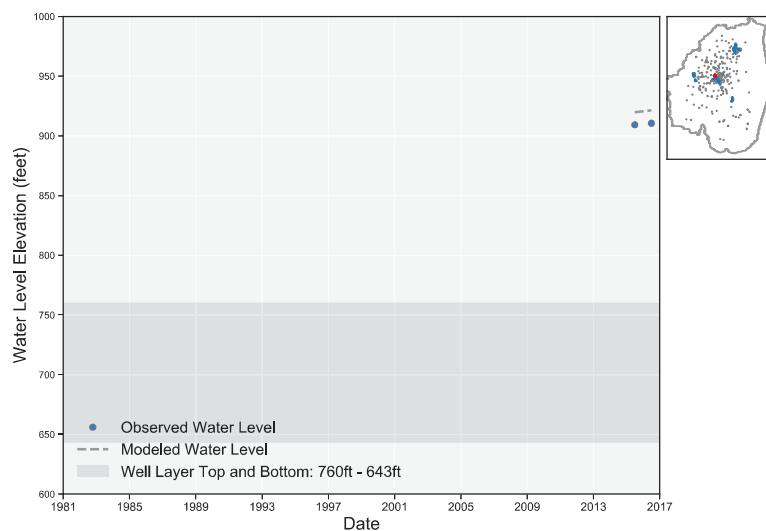
Well 182763 - Aq: OPDC Layers: 6 - 6



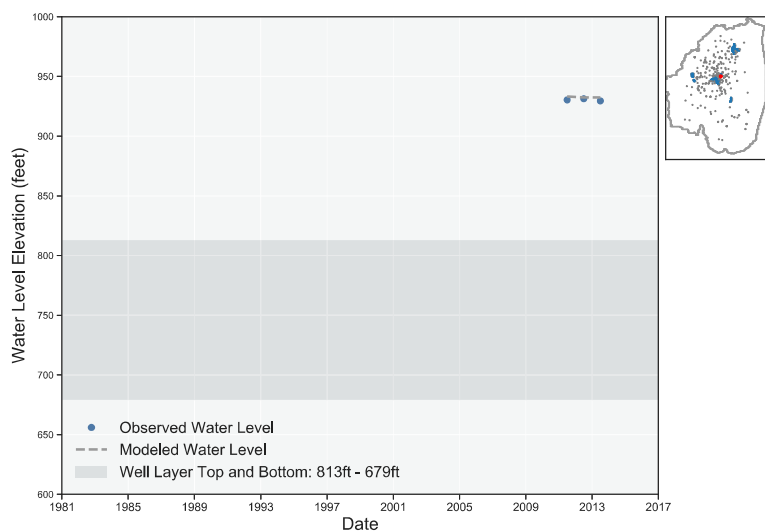
Well 430520 - Aq: OPDC Layers: 6 - 6



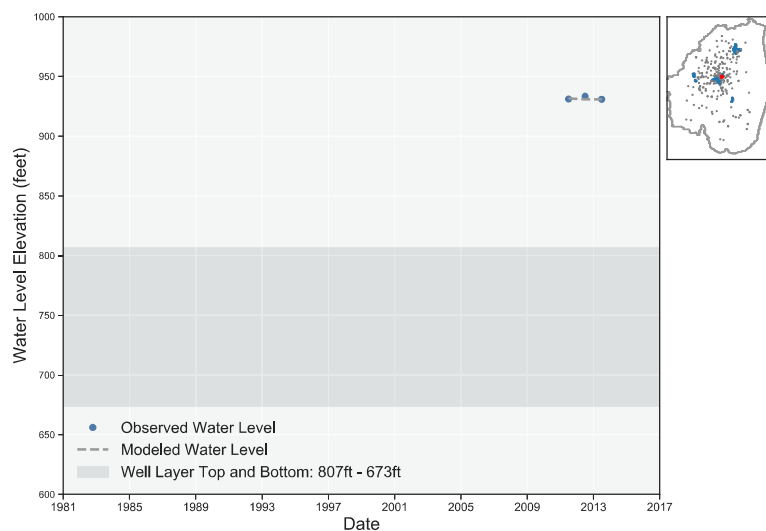
Well 62053 - Aq: CJDN Layers: 6 - 6



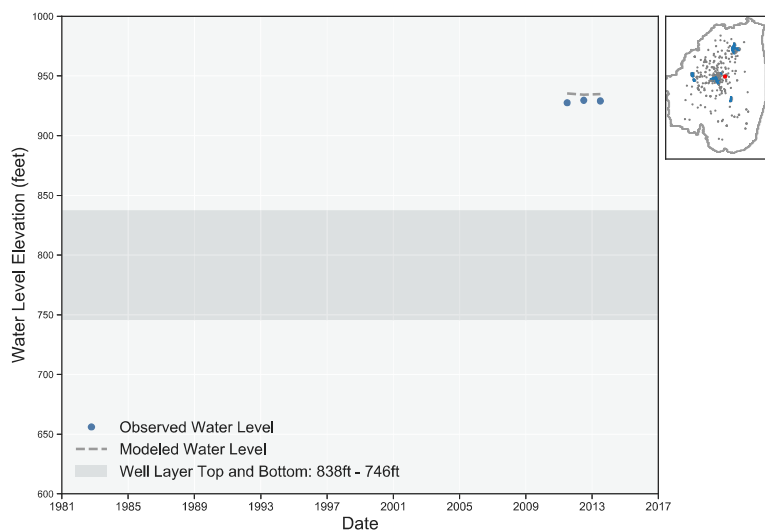
Well 195679 - Aq: OPDC Layers: 6 - 6



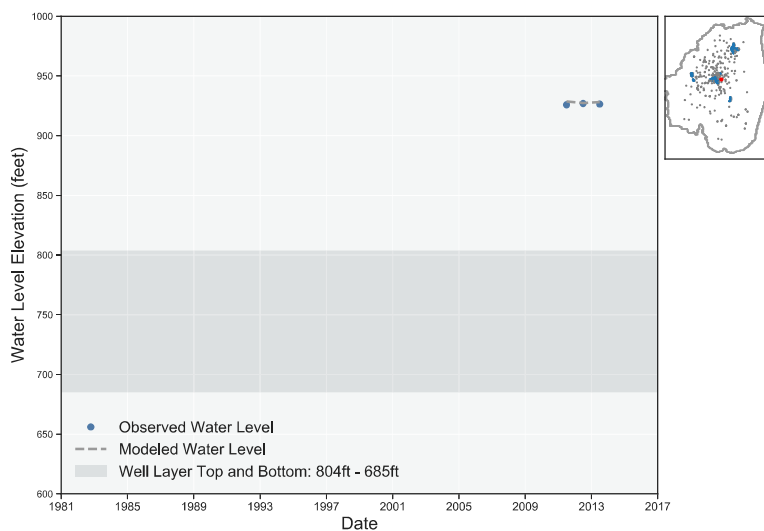
Well 207398 - Aq: OPDC Layers: 6 - 6



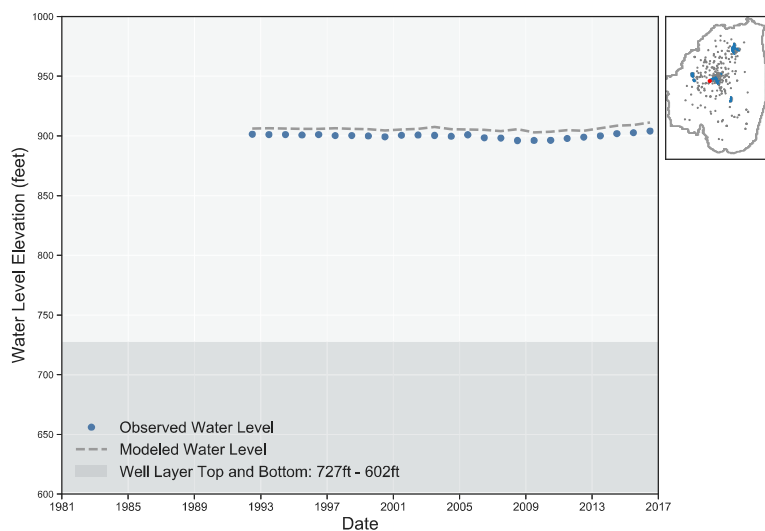
Well 404147 - Aq: OPDC Layers: 6 - 6



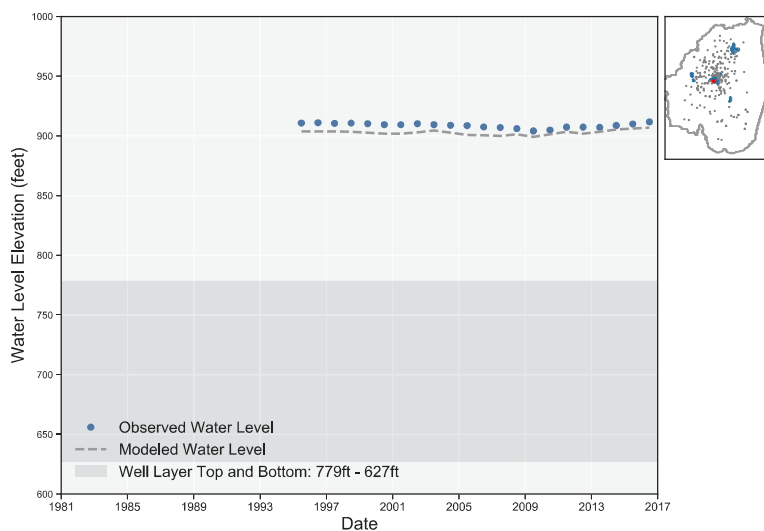
Well 420312 - Aq: OPDC Layers: 6 - 6



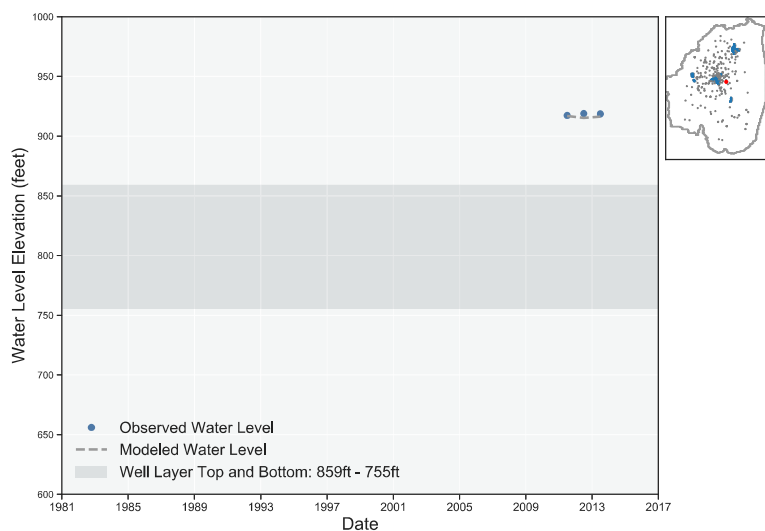
Well 62038 - Aq: OPDCCJDN Layers: 6 - 6



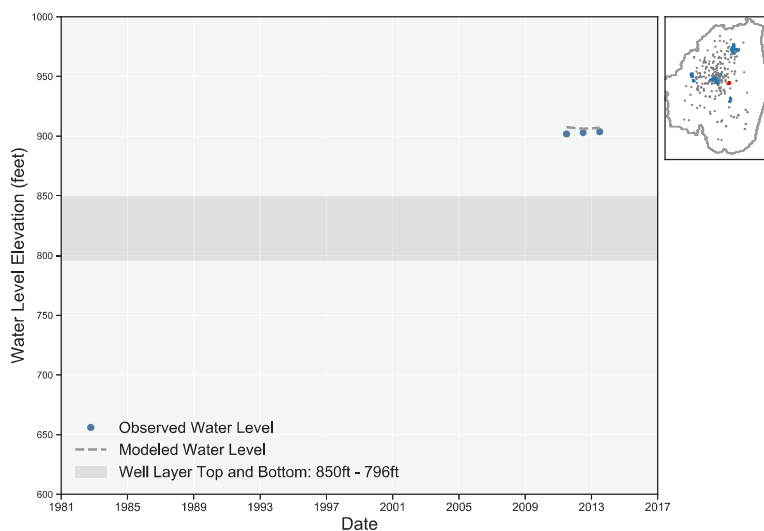
Well 62044 - Aq: OPDC Layers: 6 - 6



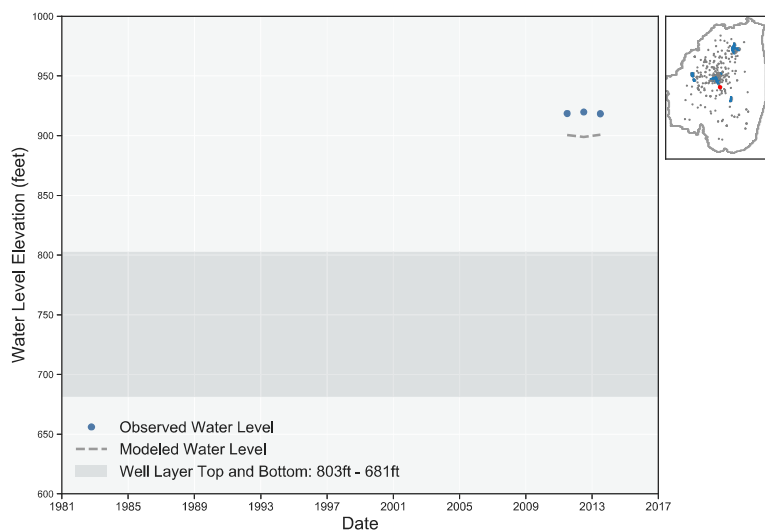
Well 435121 - Aq: OPDC Layers: 6 - 6



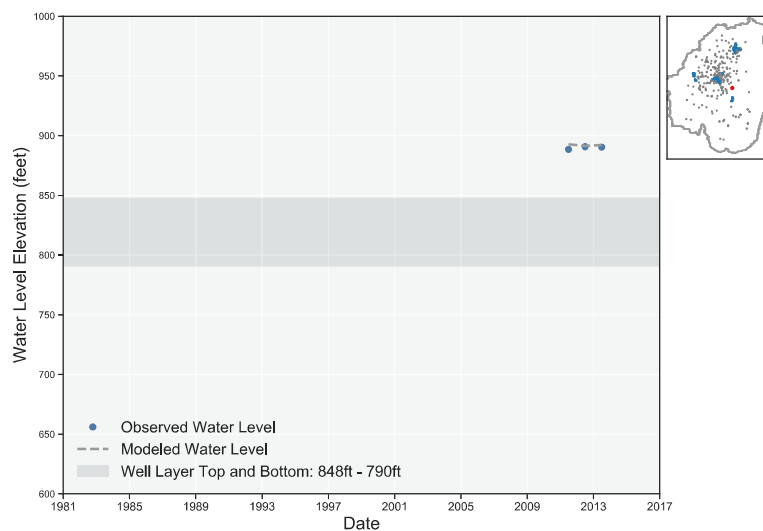
Well 762107 - Aq: OSTP Layers: 6 - 6



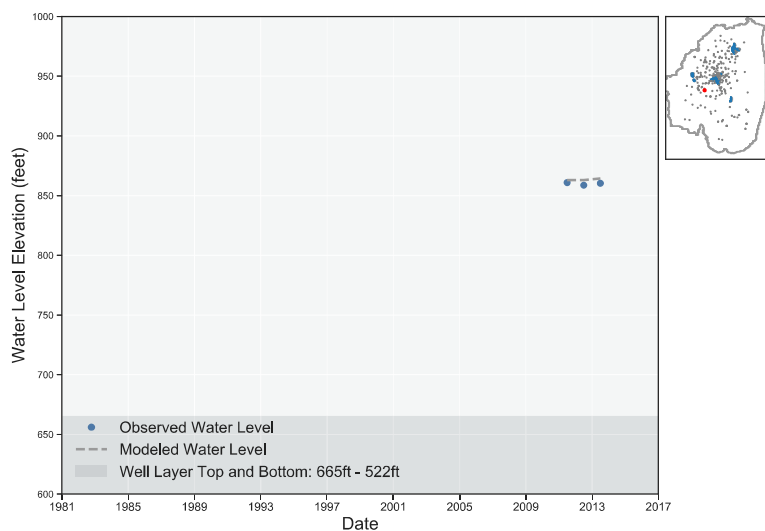
Well 138719 - Aq: OPDC Layers: 6 - 6



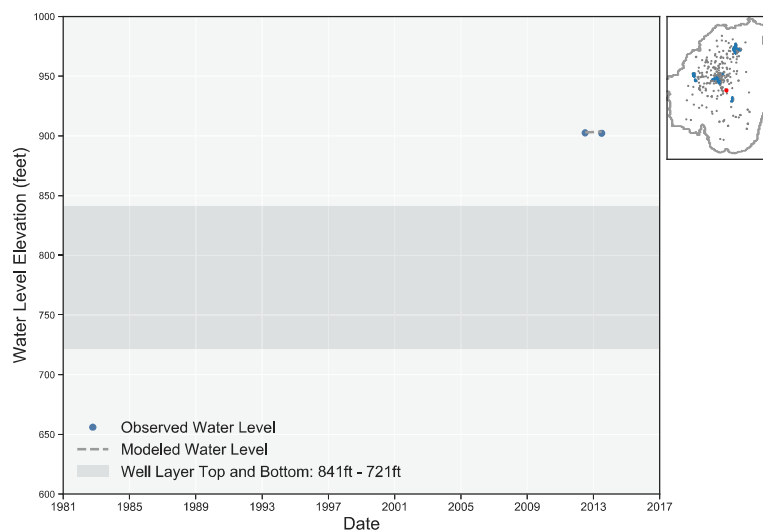
Well 242357 - Aq: OPDC Layers: 6 - 6



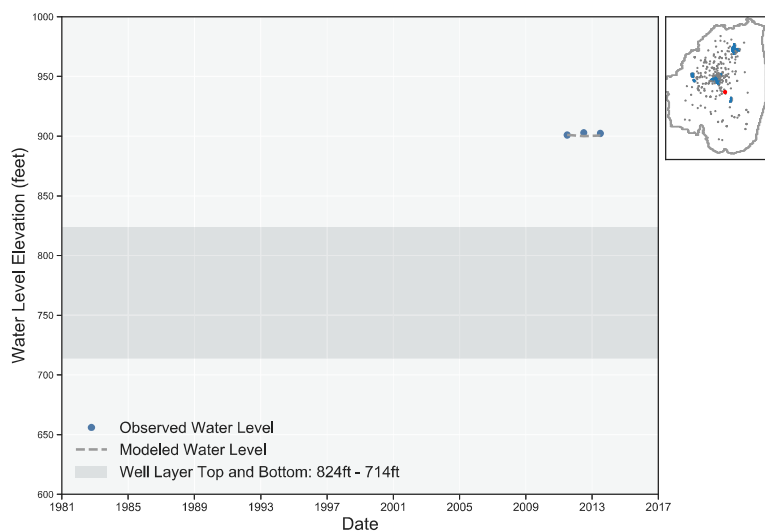
Well 430379 - Aq: OPDC Layers: 6 - 6



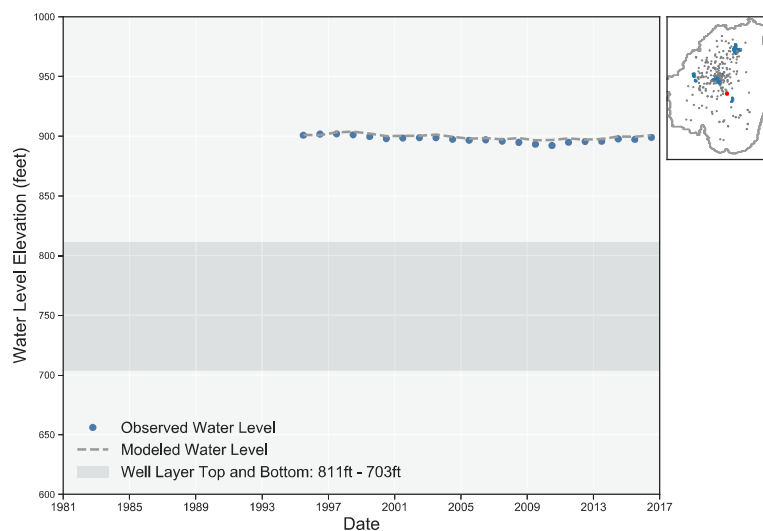
Well 421245 - Aq: OPDC Layers: 6 - 6



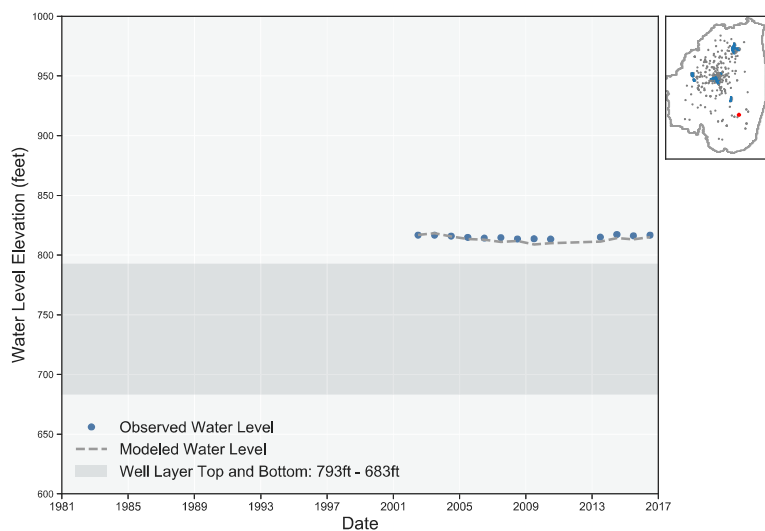
Well 440010 - Aq: OSTP Layers: 6 - 6



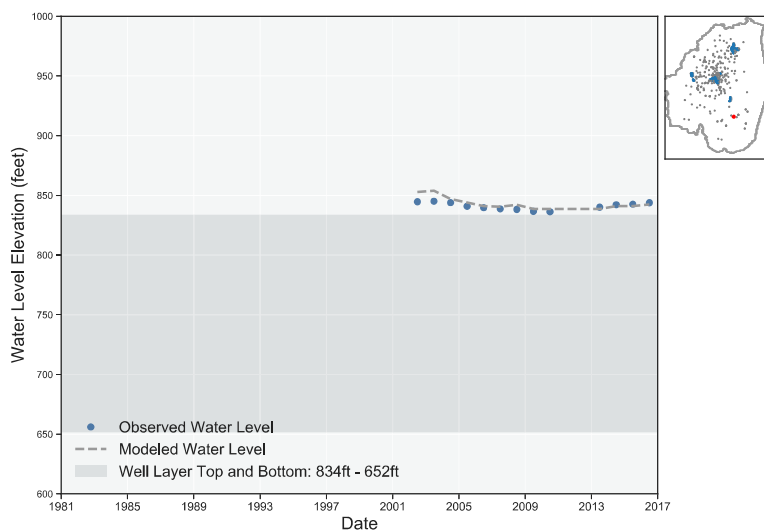
Well 82041 - Aq: OPDC Layers: 6 - 6



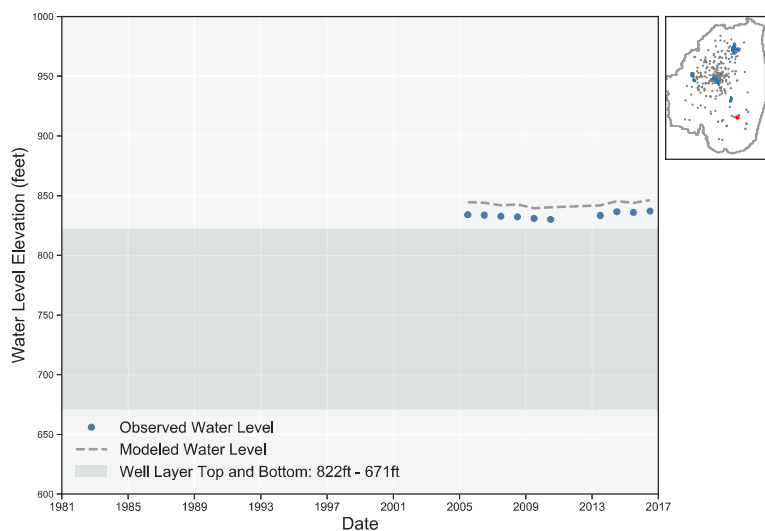
Well 675585 - Aq: OPDC Layers: 6 - 6



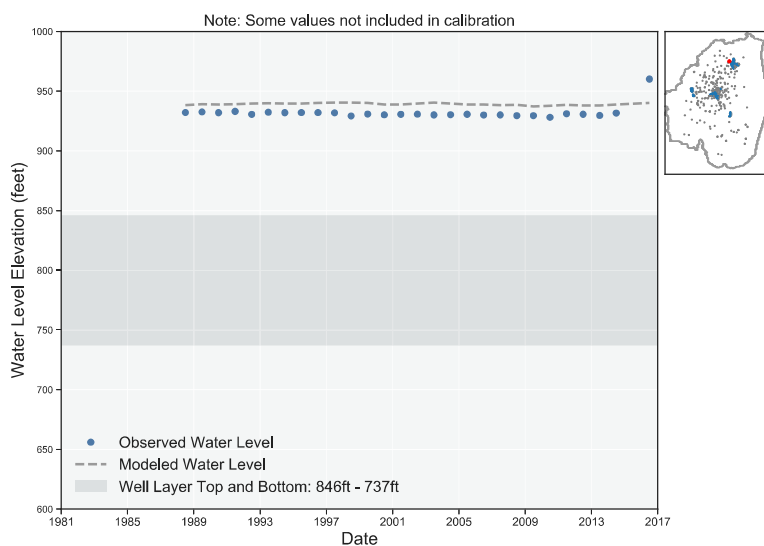
Well 675582 - Aq: OPDC Layers: 6 - 6



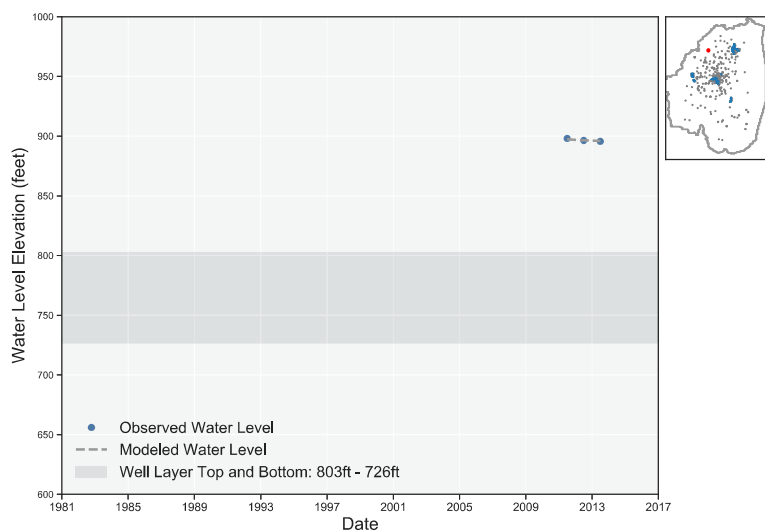
Well 727706 - Aq: OPDC Layers: 6 - 6



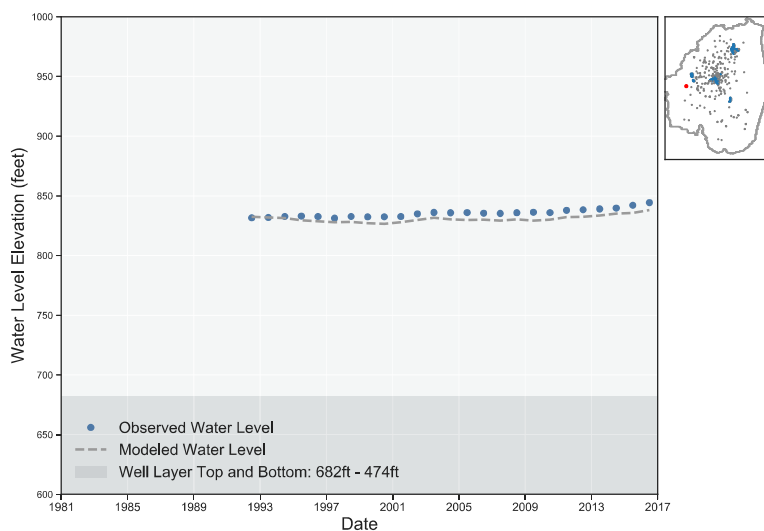
Well 82030 - Aq: OPDCCJDN Layers: 6 - 7



Well 136792 - Aq: OPCJ Layers: 6 - 7

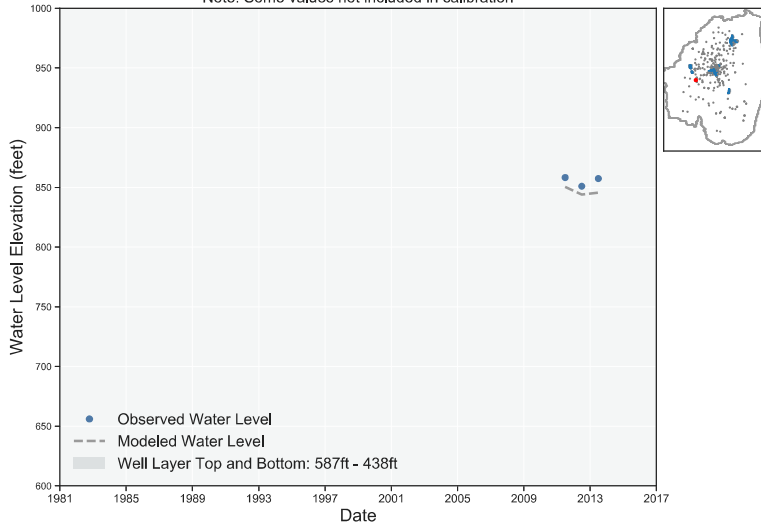


Well 62037 - Aq: OPDCCJDN Layers: 6 - 7



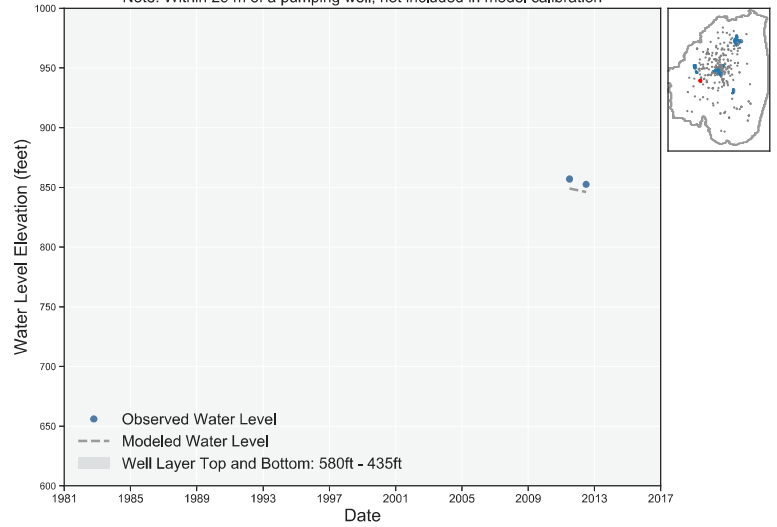
Well 151579 - Aq: OPCJ Layers: 6 - 7

Note: This is a pumping well (1977-6229, installation E) but was not pumped in 2011 or 2012.
Note: Some values not included in calibration

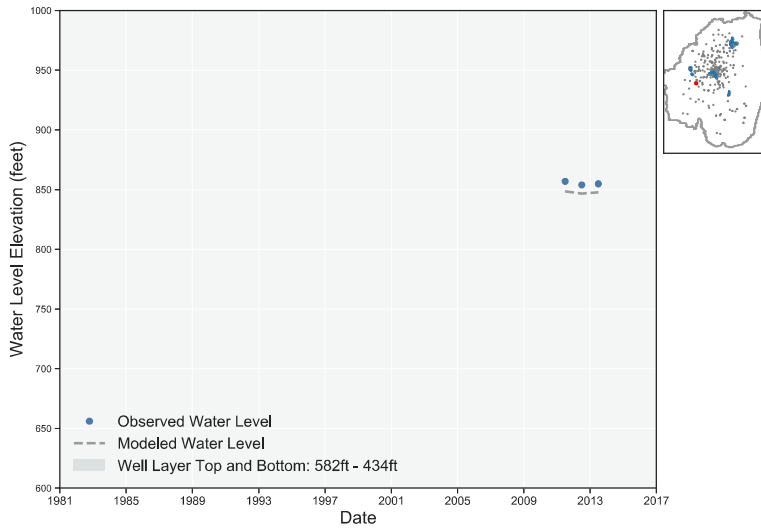


Well 706802 - Aq: OPCJ Layers: 6 - 7

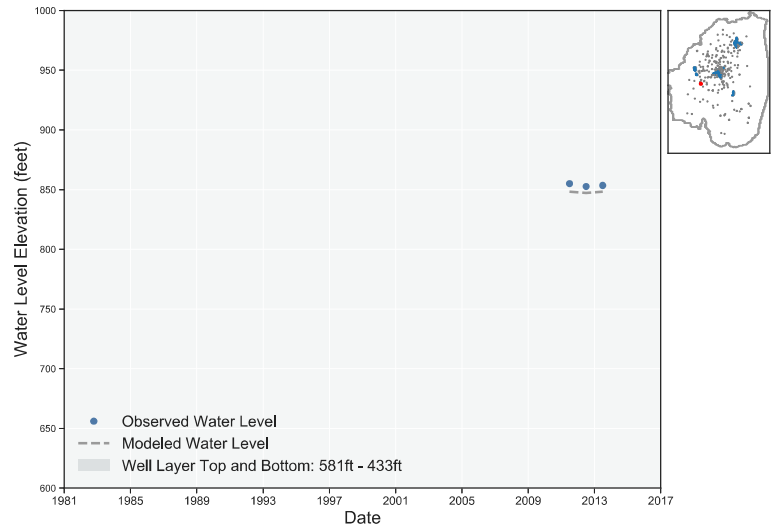
Note: Within 25 m of a pumping well, not included in model calibration



Well 753666 - Aq: OPCJ Layers: 6 - 7

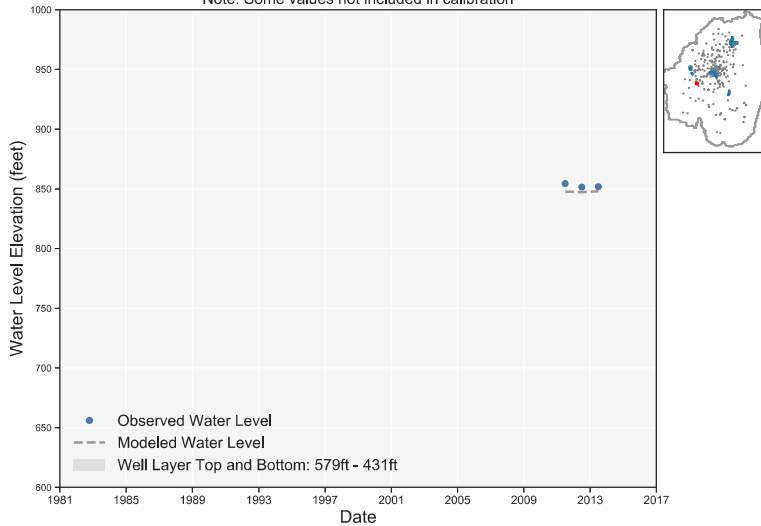


Well 753667 - Aq: OPCJ Layers: 6 - 7



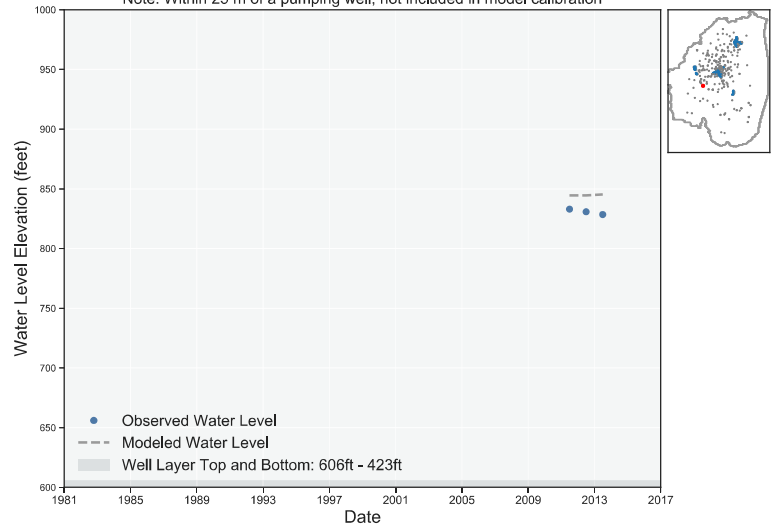
Well 759568 - Aq: OPCJ Layers: 6 - 7

Note: Some values not included in calibration

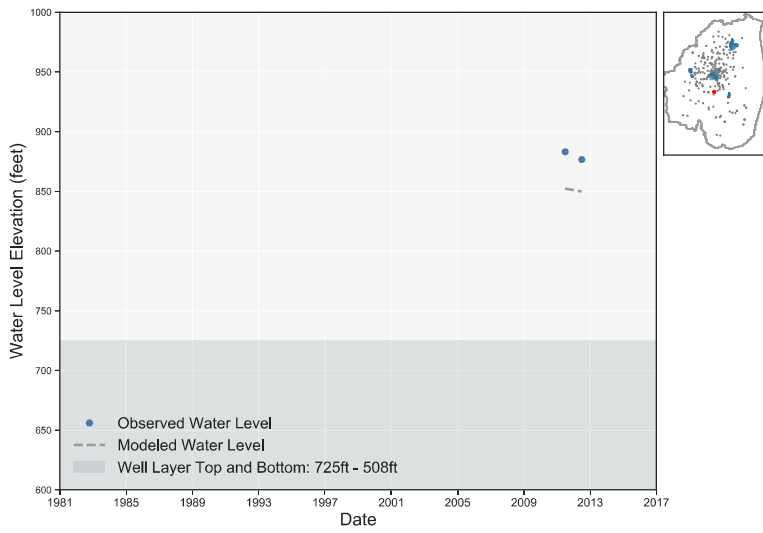


Well 759569 - Aq: OPCJ Layers: 6 - 7

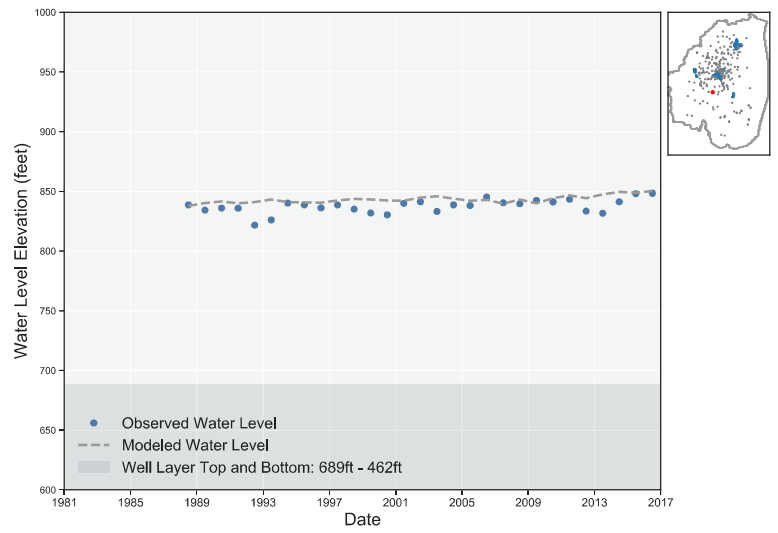
Note: Within 25 m of a pumping well, not included in model calibration



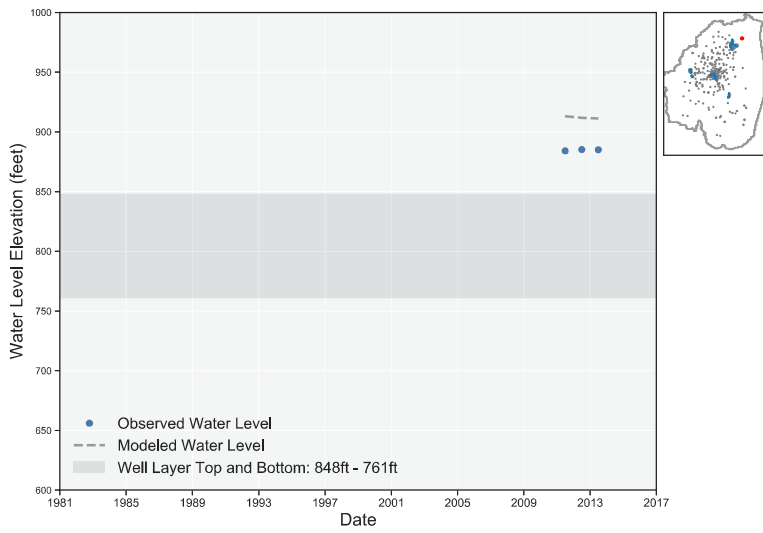
Well 686293 - Aq: OPCJ Layers: 6 - 7



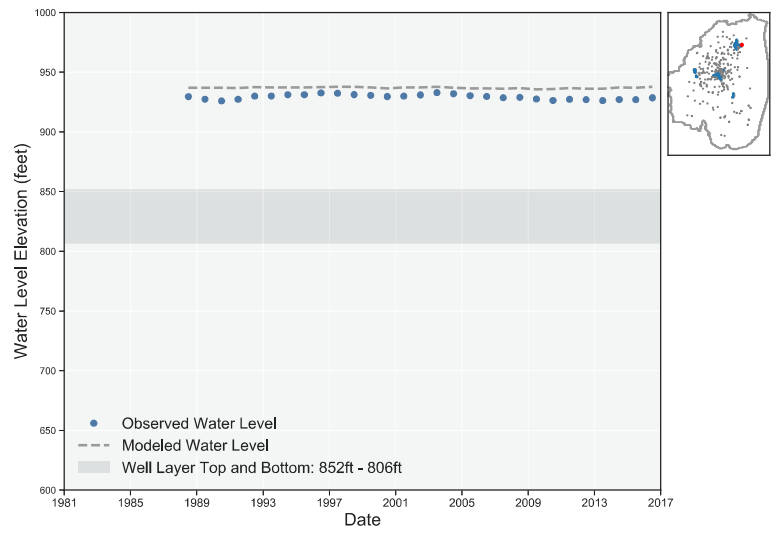
Well 62009 - Aq: OPDCCJDN Layers: 6 - 7



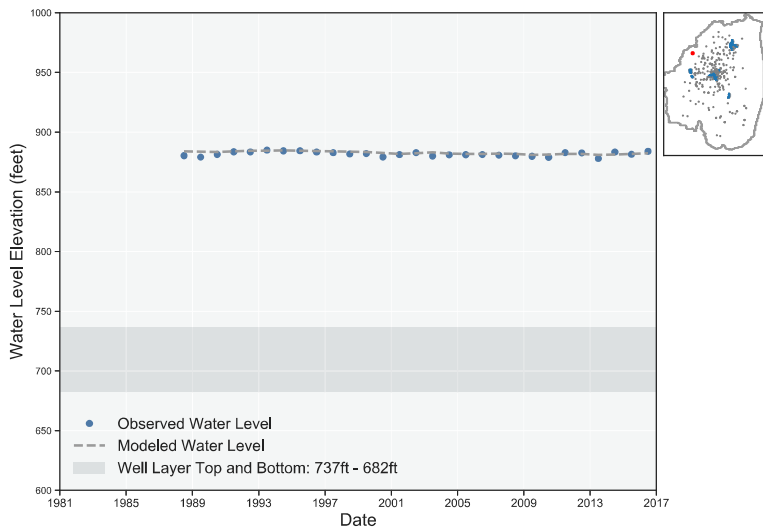
Well 517015 - Aq: OPCJ Layers: 7 - 7



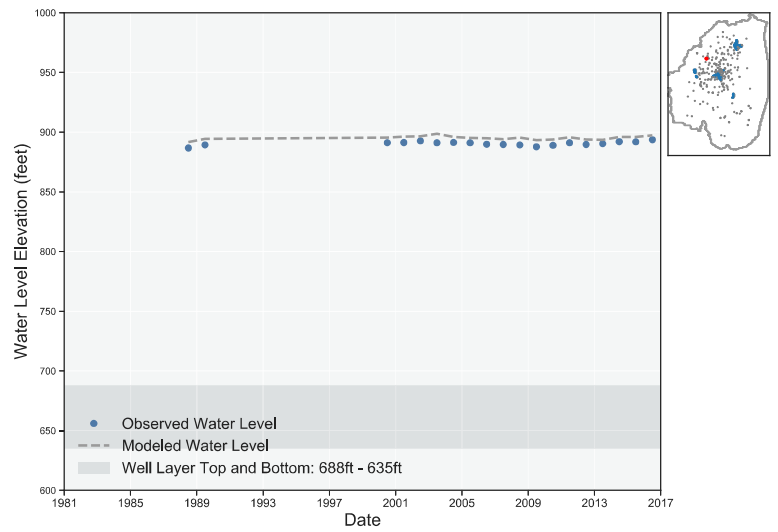
Well 82031 - Aq: CJDN Layers: 7 - 7



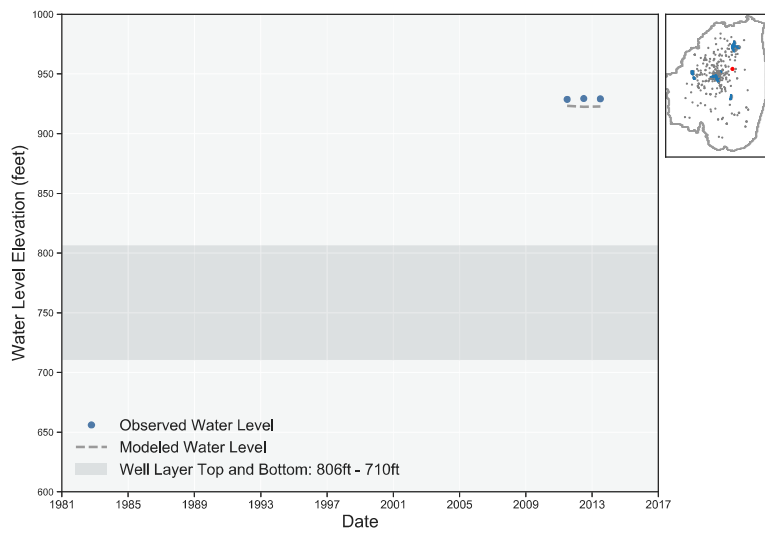
Well 2008 - Aq: QBAA Layers: 7 - 7



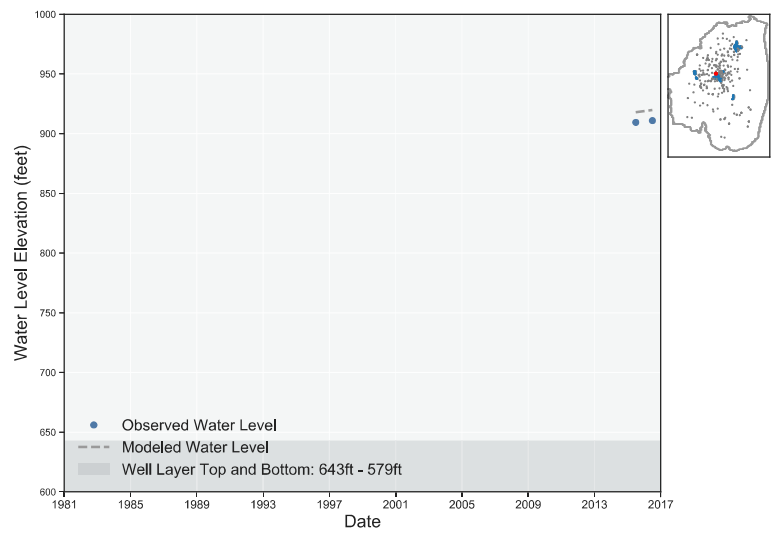
Well 1212 - Aq: CJDN Layers: 7 - 7



Well 409004 - Aq: OSTP Layers: 7 - 7

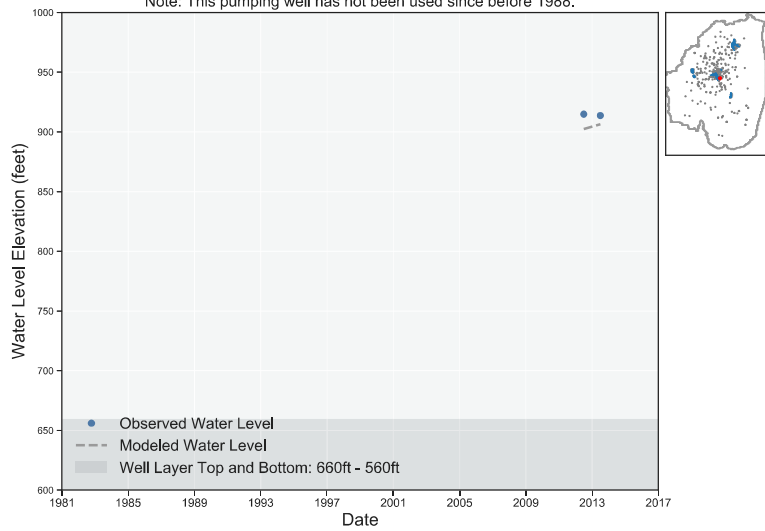


Well 62054 - Aq: OPDC Layers: 7 - 7



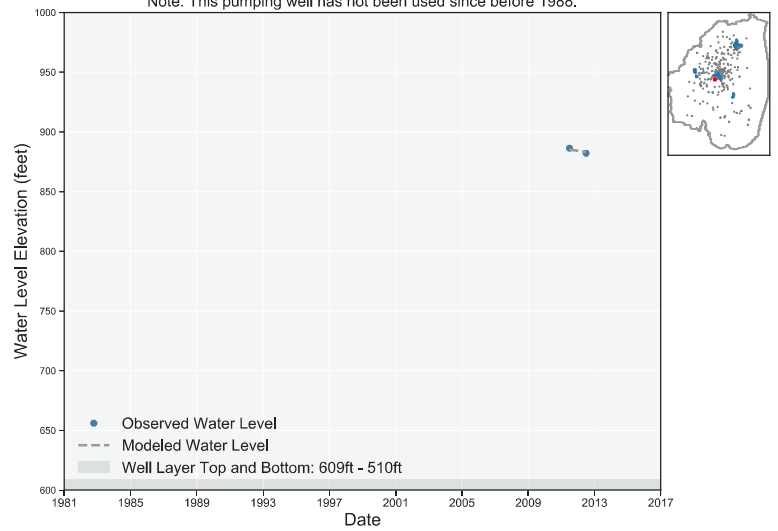
Well 208506 - Aq: CJDN Layers: 7 - 7

Note: This pumping well has not been used since before 1988.

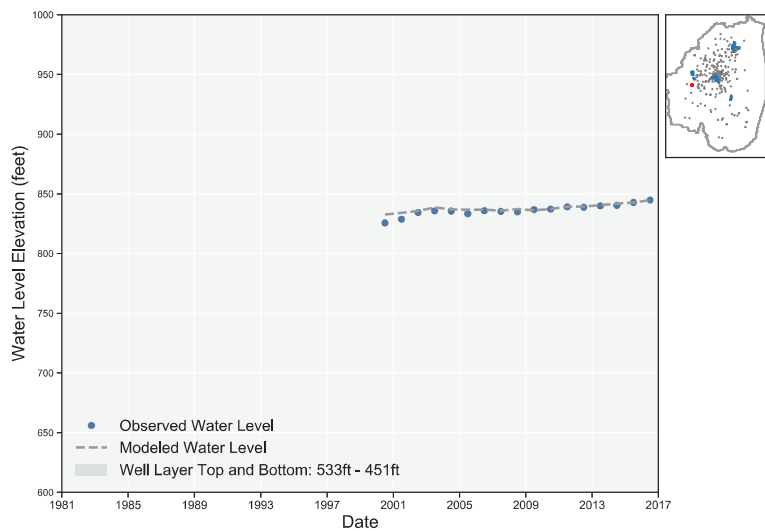


Well 226567 - Aq: CJSL Layers: 7 - 7

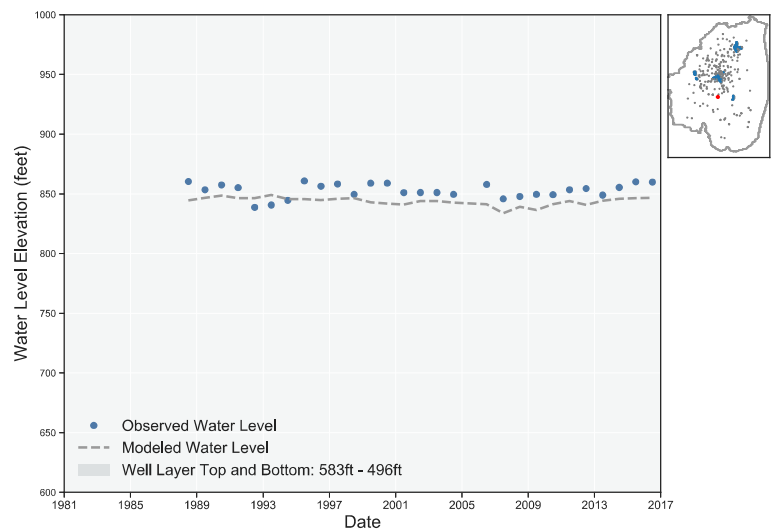
Note: This pumping well has not been used since before 1988.



Well 62030 - Aq: CJDN Layers: 7 - 7

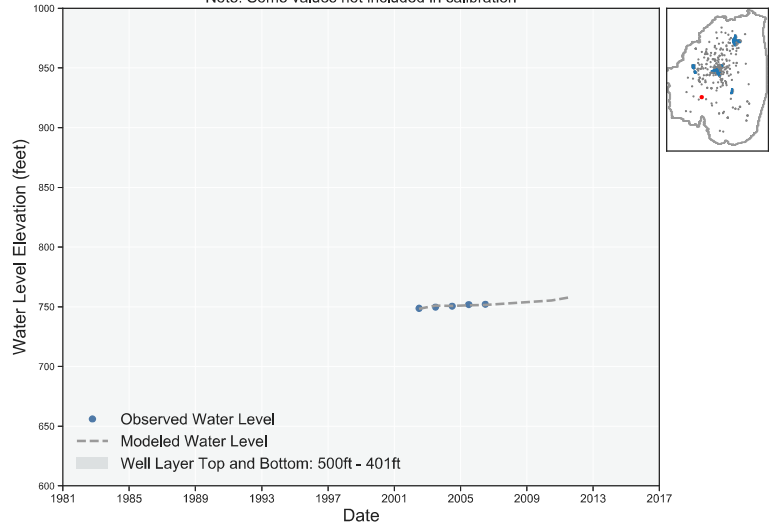


Well 62001 - Aq: CJDN Layers: 7 - 7

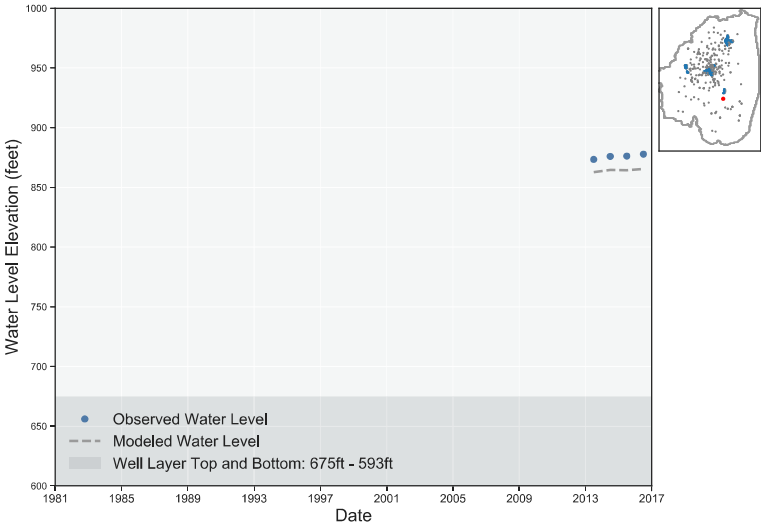


Well 62049 - Aq: CJDN Layers: 7 - 7

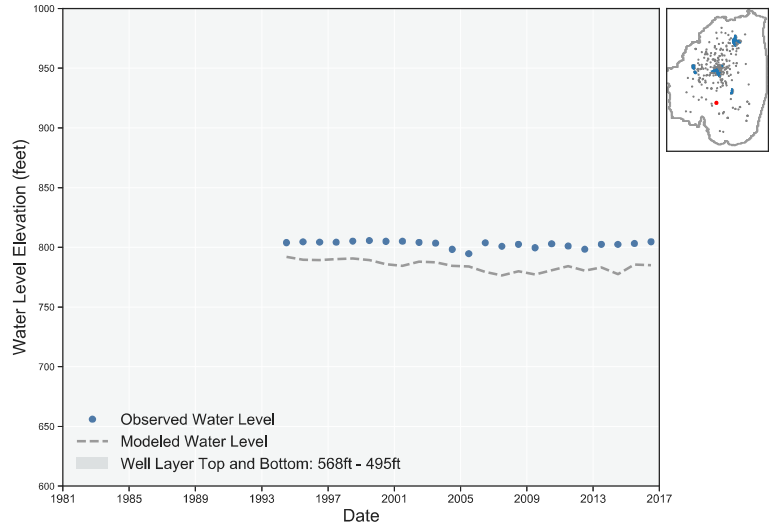
Note: Some values not included in calibration



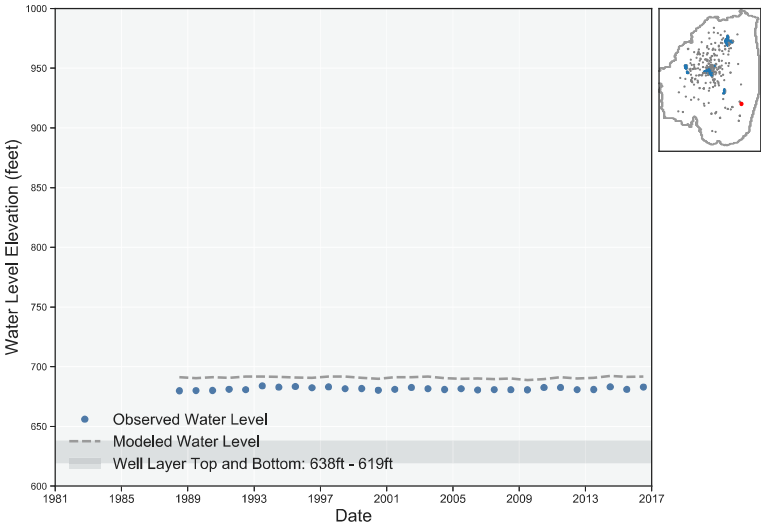
Well 82058 - Aq: QBAA Layers: 7 - 7



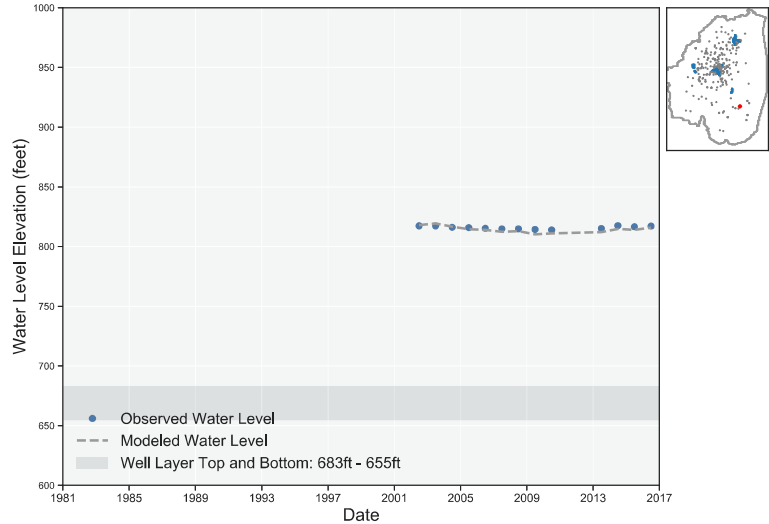
Well 62040 - Aq: CJDN Layers: 7 - 7



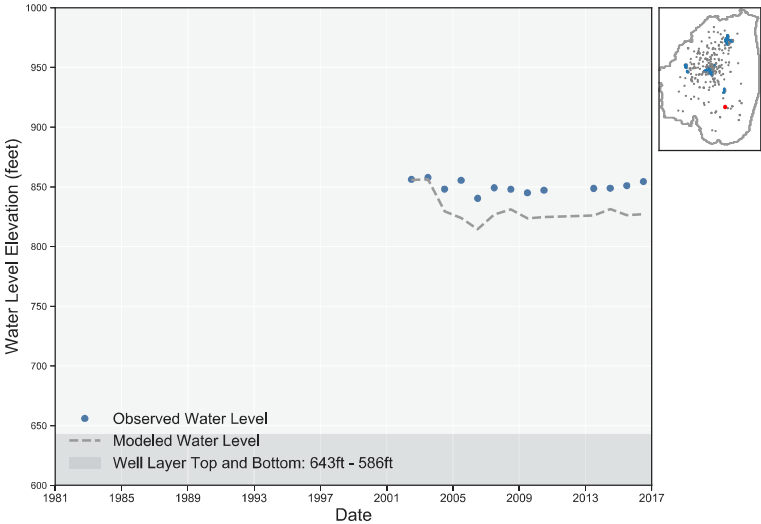
Well 82011 - Aq: CECR Layers: 7 - 7



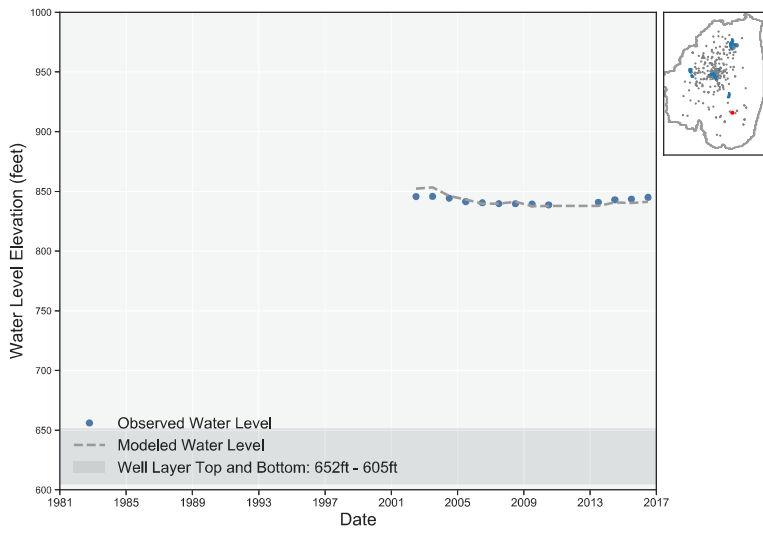
Well 675584 - Aq: CJDN Layers: 7 - 7



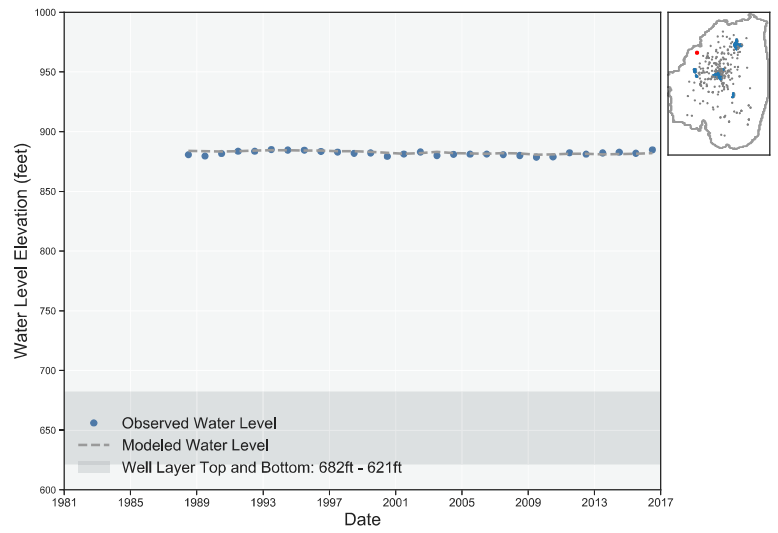
Well 675580 - Aq: CJDN Layers: 7 - 7



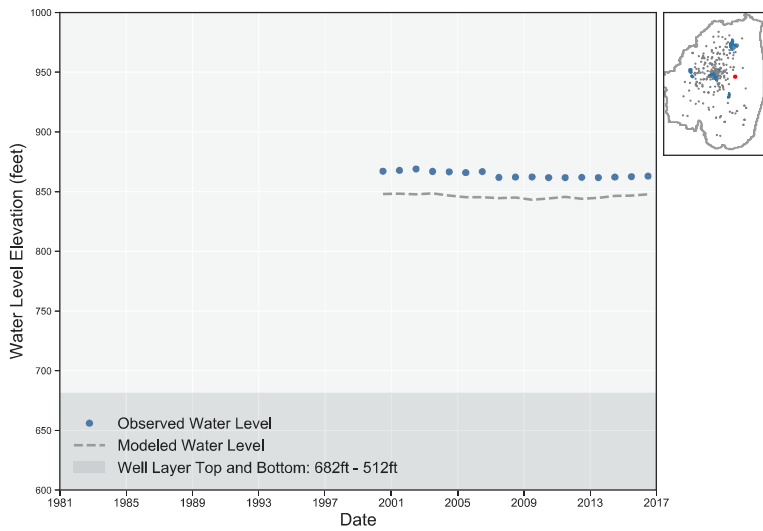
Well 675583 - Aq: CJDN Layers: 7 - 7



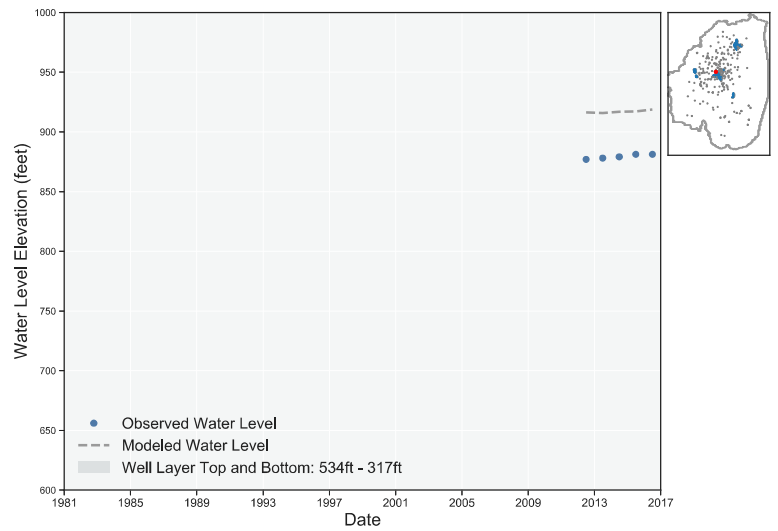
Well 2007 - Aq: QBAA Layers: 8 - 8



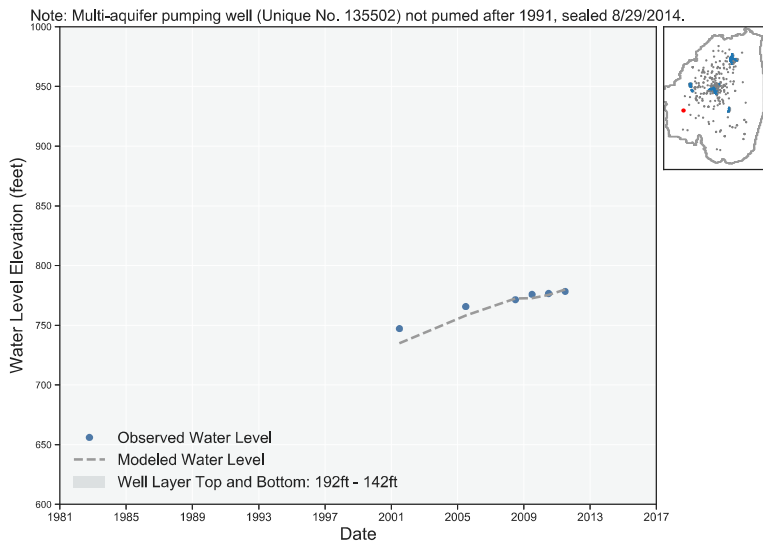
Well 82047 - Aq: CTCG Layers: 9 - 9



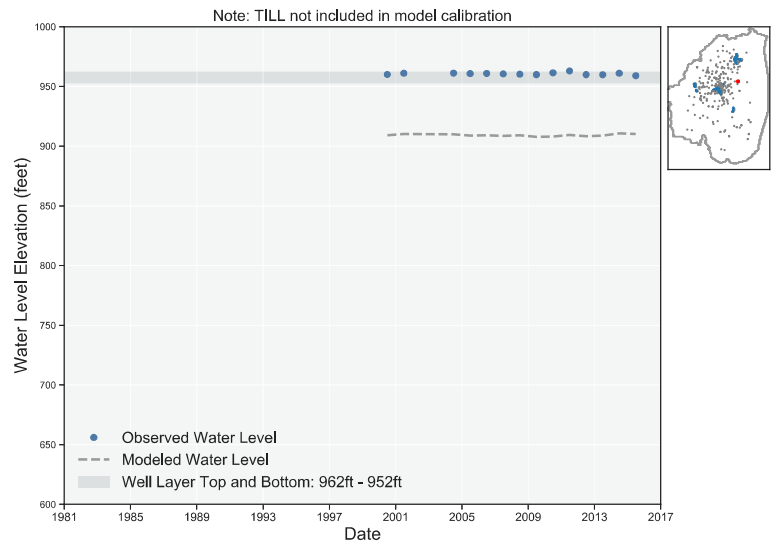
Well 62052 - Aq: CTCW Layers: 9 - 10



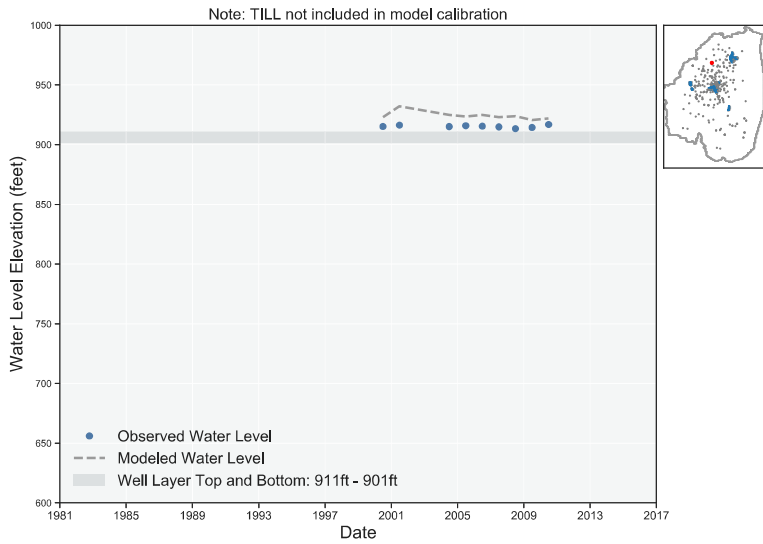
Well 62041 - Aq: CIGL Layers: 10 - 10



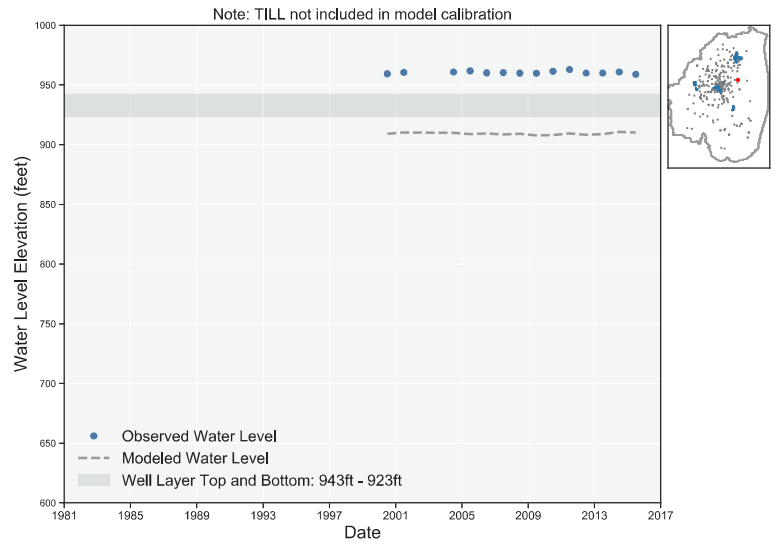
Well 82043 - Aq: TILL Layers: 1 - 1



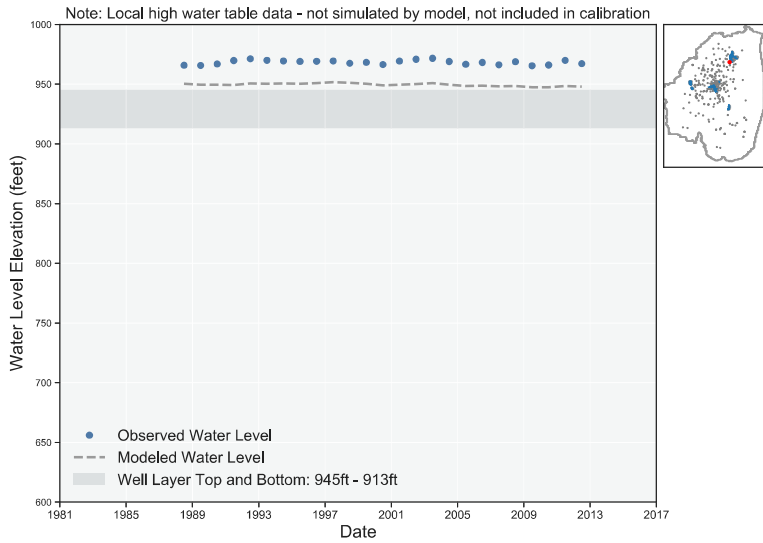
Well 82044 - Aq: TILL Layers: 2 - 2



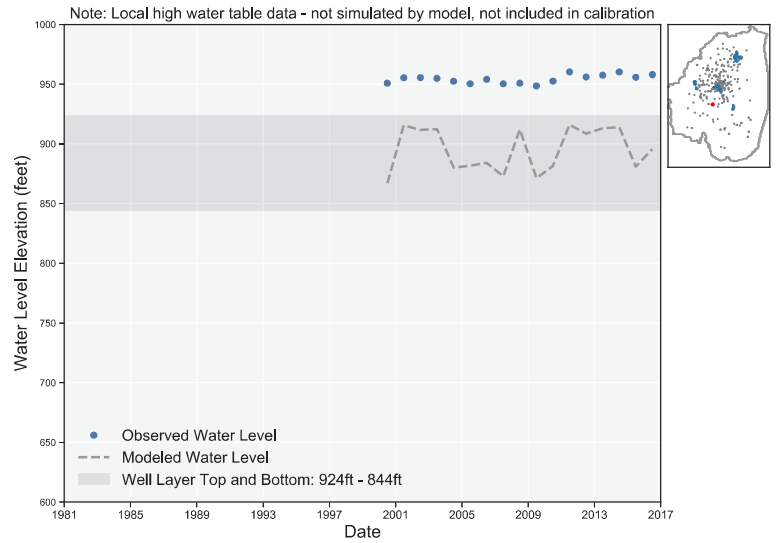
Well 82042 - Aq: TILL Layers: 3 - 3



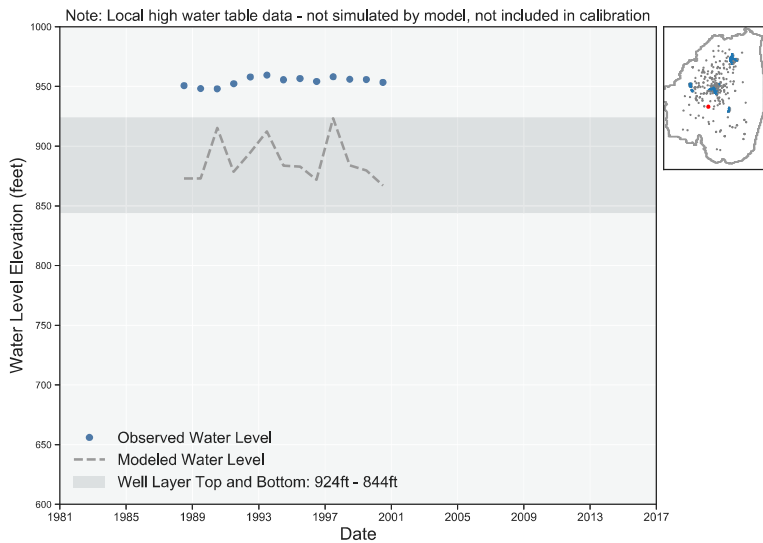
Well 82037 - Aq: QWTA Layers: 4 - 4



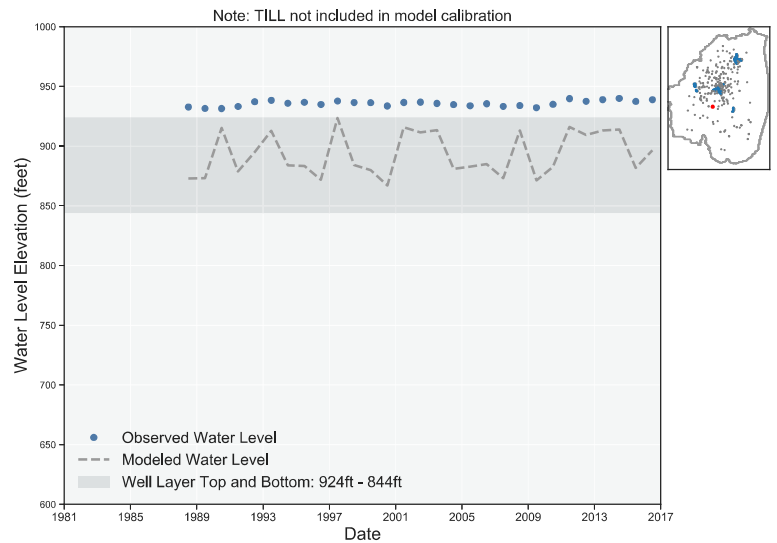
Well 62048 - Aq: QWTA Layers: 4 - 4



Well 62011 - Aq: QBAA Layers: 4 - 4

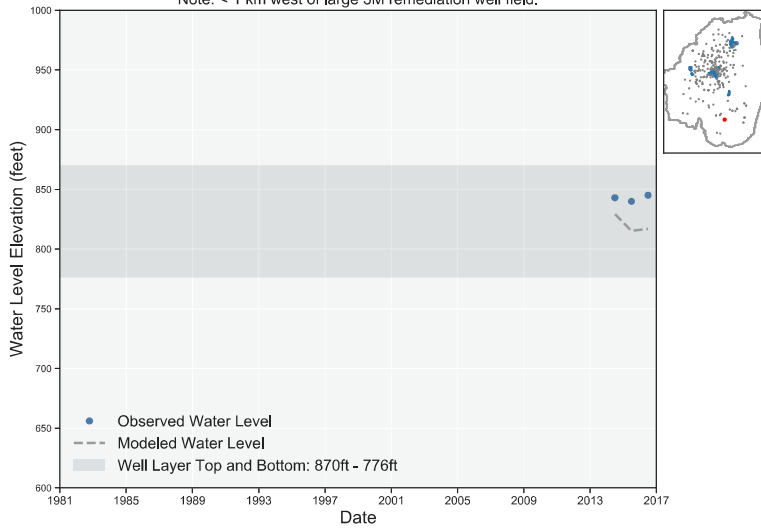


Well 62010 - Aq: TILL Layers: 4 - 4



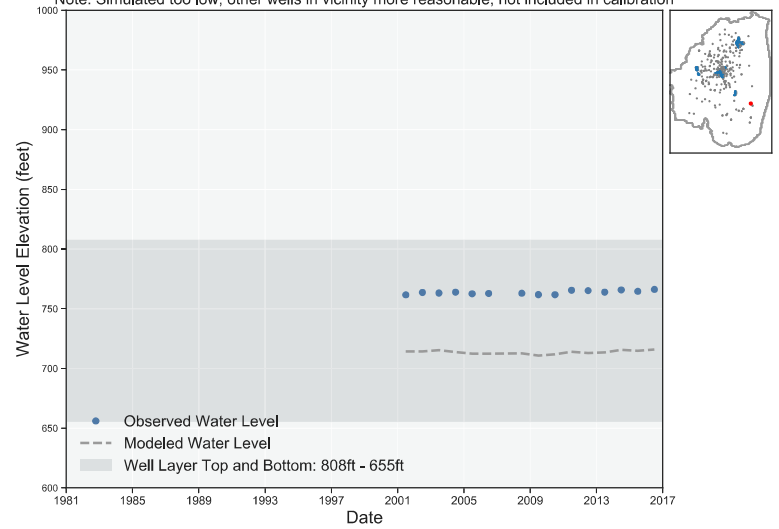
Well 82062 - Aq: QWTA Layers: 4 - 4

Note: < 1 km west of large 3M remediation well field.



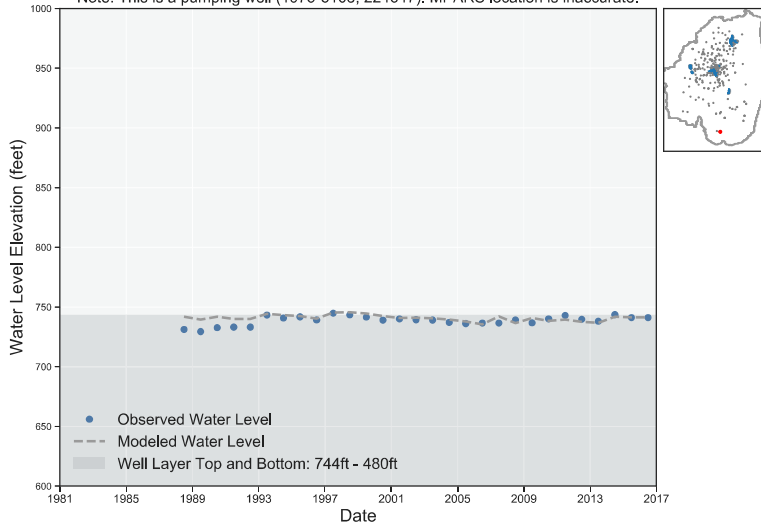
Well 82045 - Aq: CFRNCIGL Layers: 4 - 6

Note: Simulated too low; other wells in vicinity more reasonable, not included in calibration



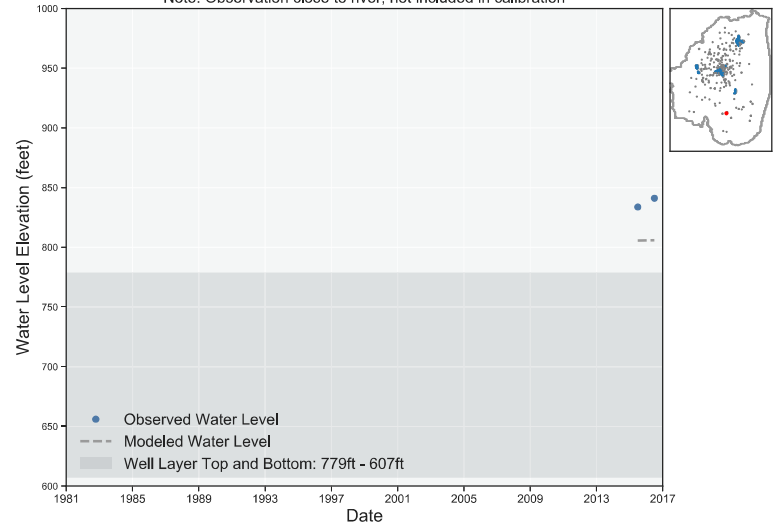
Well 82016 - Aq: OPDCCJDN Layers: 5 - 8

Note: This is a pumping well (1975-6103, 224647). MPARS location is inaccurate.



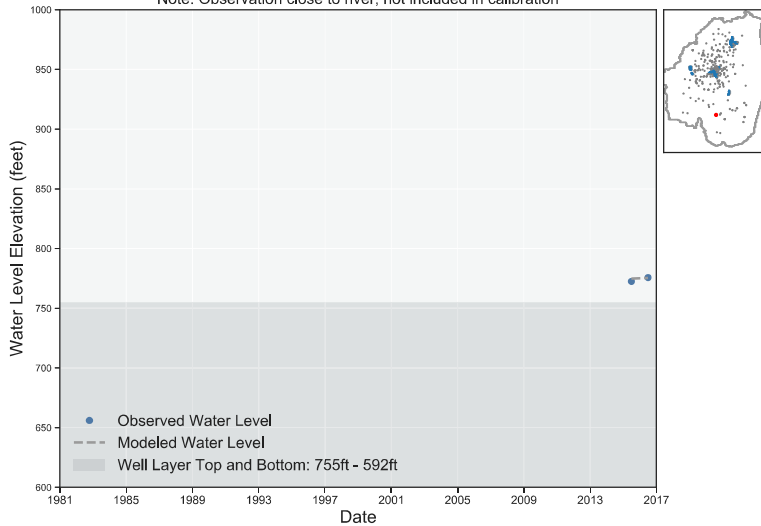
Well 767883 - Aq: OPDC Layers: 6 - 6

Note: Observation close to river, not included in calibration



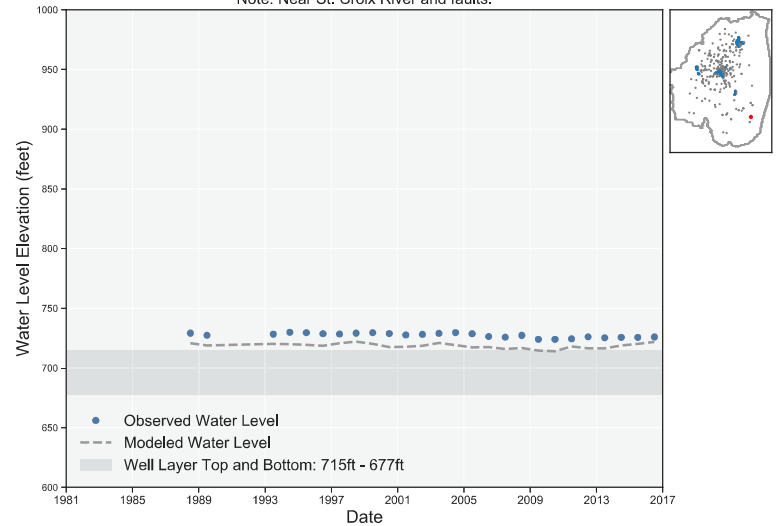
Well 767882 - Aq: OPDC Layers: 6 - 6

Note: Observation close to river, not included in calibration



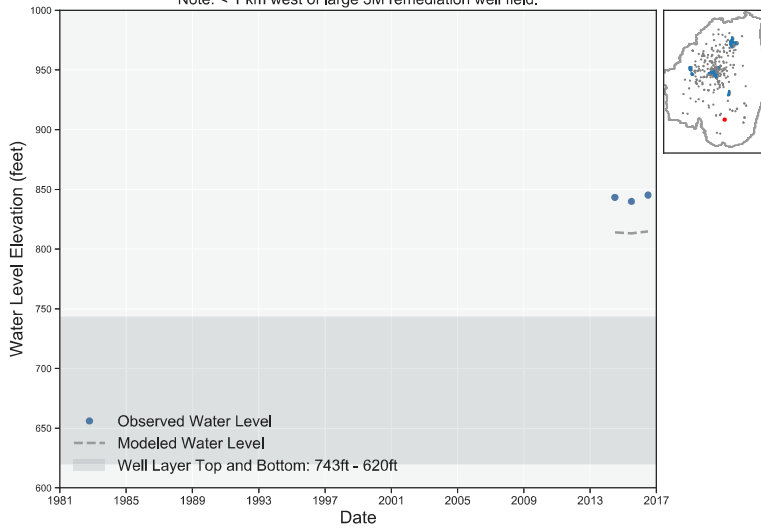
Well 82012 - Aq: CSTL Layers: 6 - 6

Note: Near St. Croix River and faults.



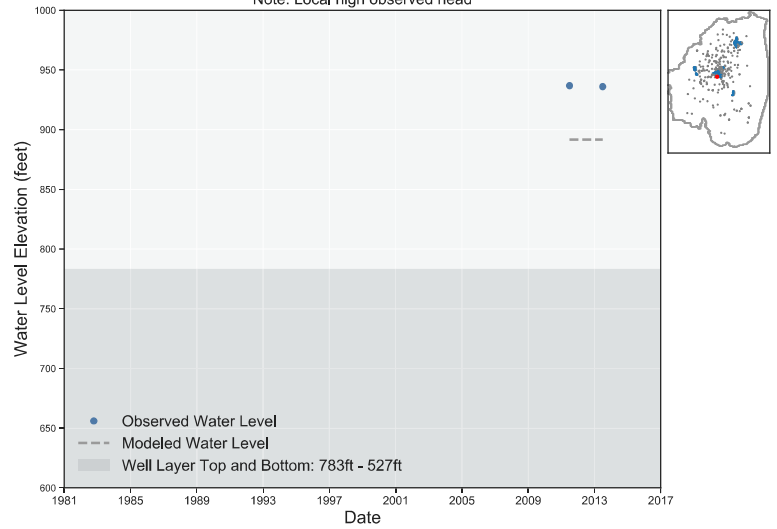
Well 82061 - Aq: OPDC Layers: 6 - 6

Note: < 1 km west of large 3M remediation well field.



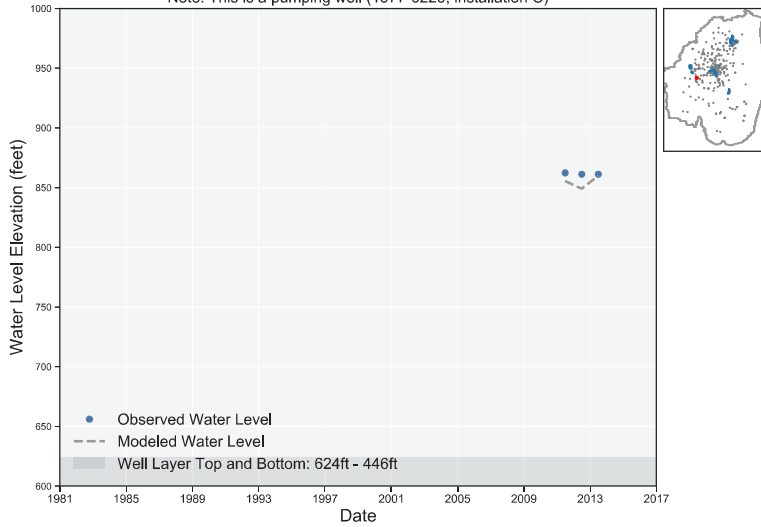
Well 226572 - Aq: OPCJ Layers: 6 - 7

Note: Local high observed head



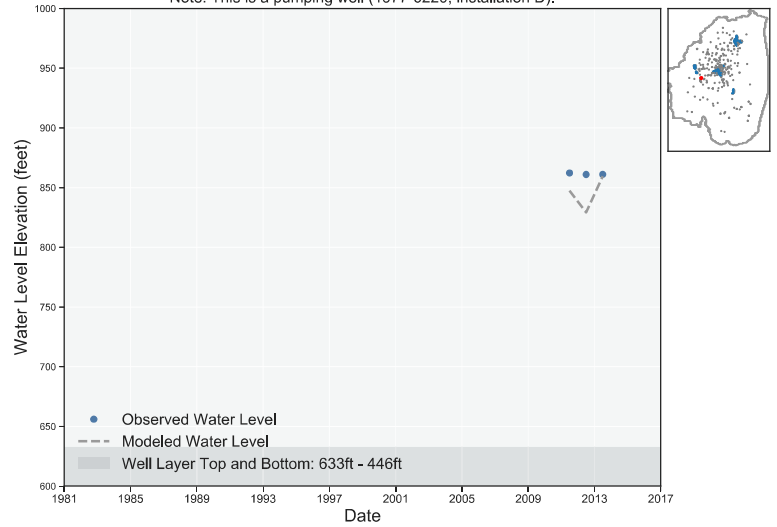
Well 127292 - Aq: OPCJ Layers: 6 - 7

Note: This is a pumping well (1977-6229, installation C)



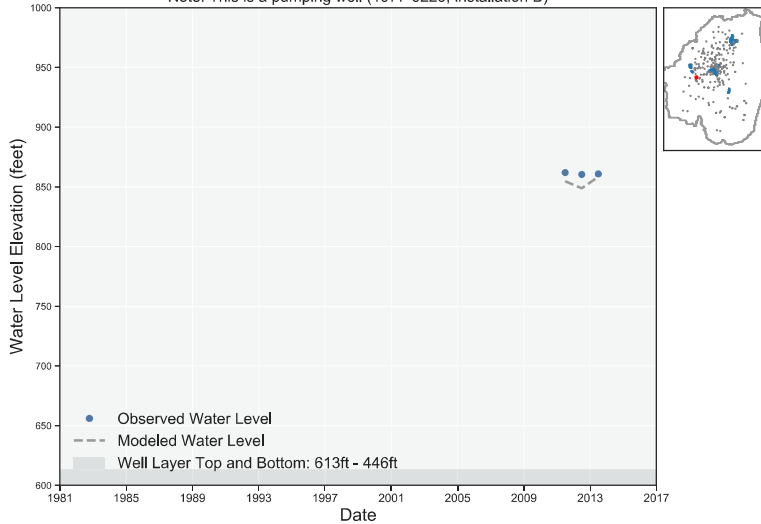
Well 151583 - Aq: OPCJ Layers: 6 - 7

Note: This is a pumping well (1977-6229, installation D).



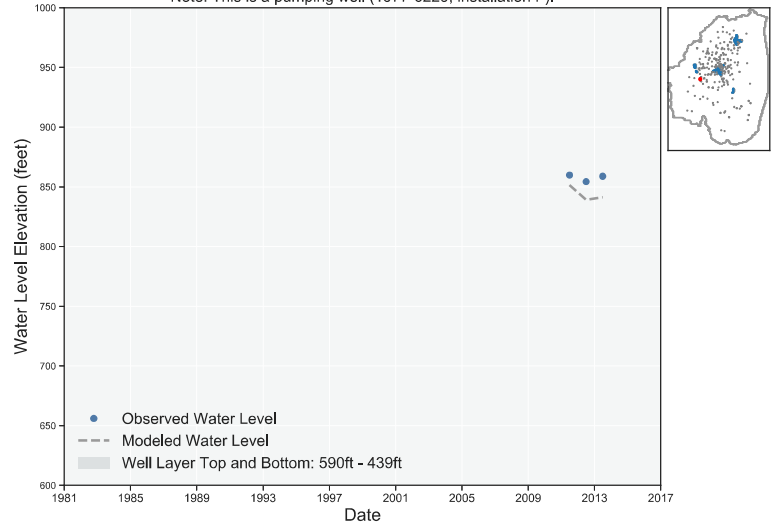
Well 133312 - Aq: OPCJ Layers: 6 - 7

Note: This is a pumping well (1977-6229, installation B)

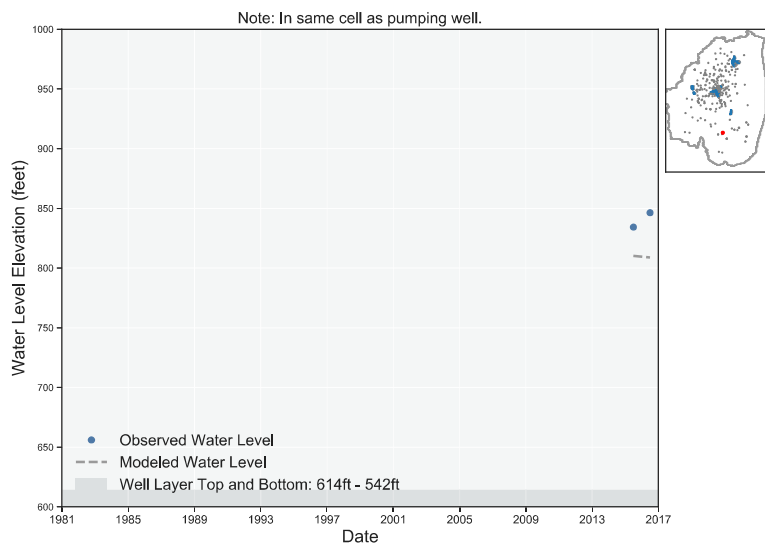


Well 706803 - Aq: OPCJ Layers: 6 - 7

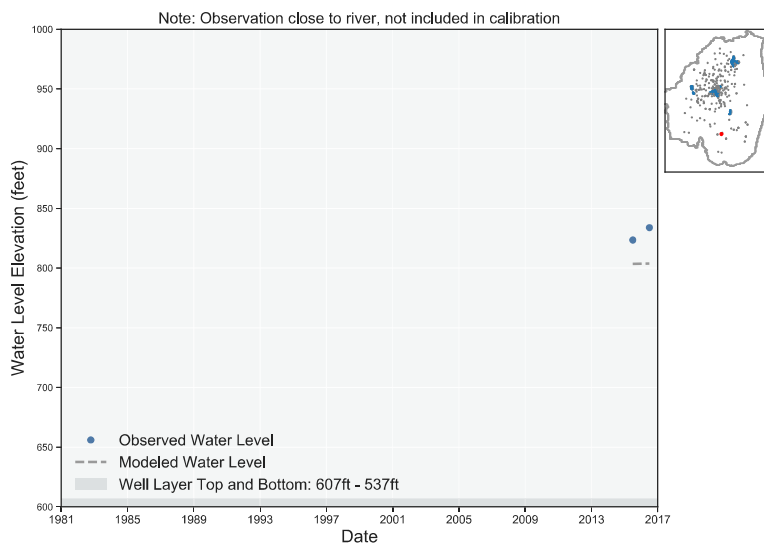
Note: This is a pumping well (1977-6229, installation F).



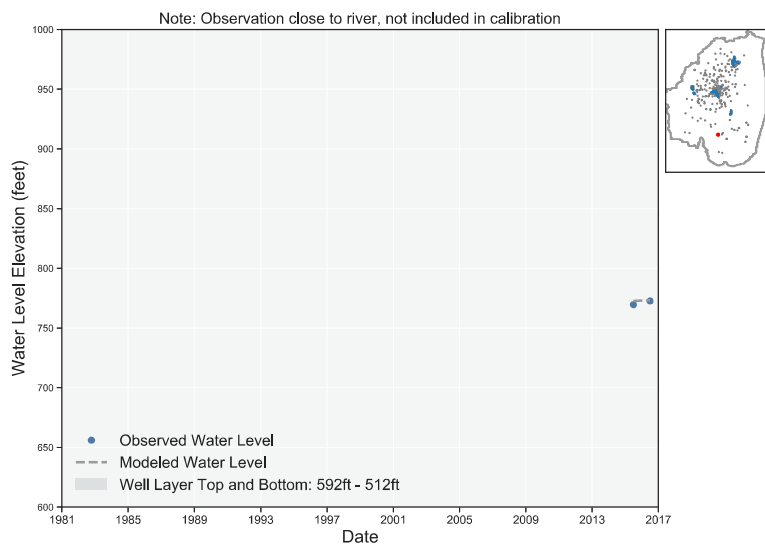
Well 763366 - Aq: CJDN Layers: 7 - 7



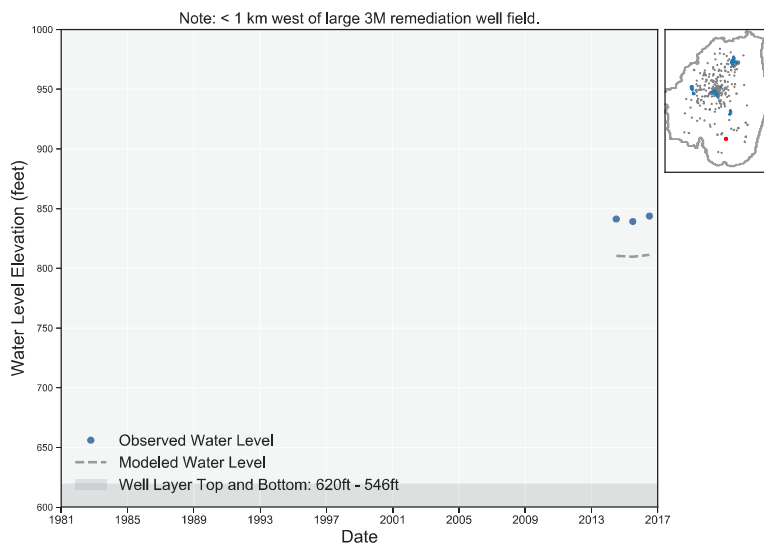
Well 767884 - Aq: CJDN Layers: 7 - 7



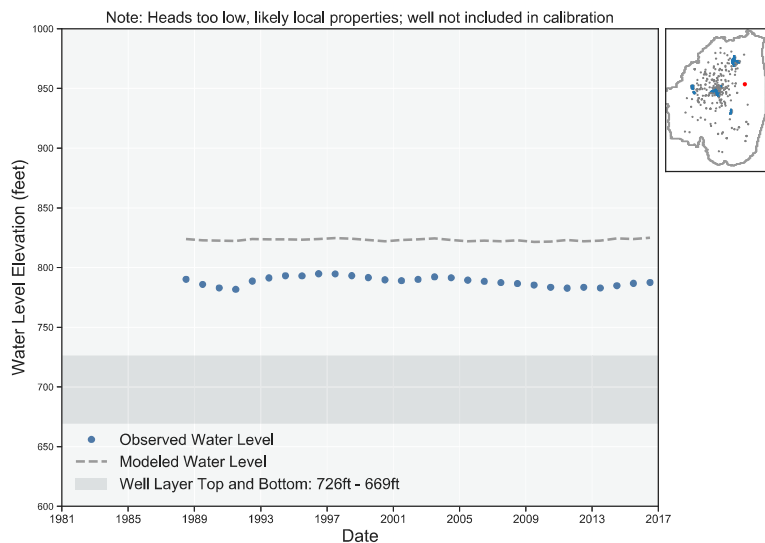
Well 767885 - Aq: CJDN Layers: 7 - 7



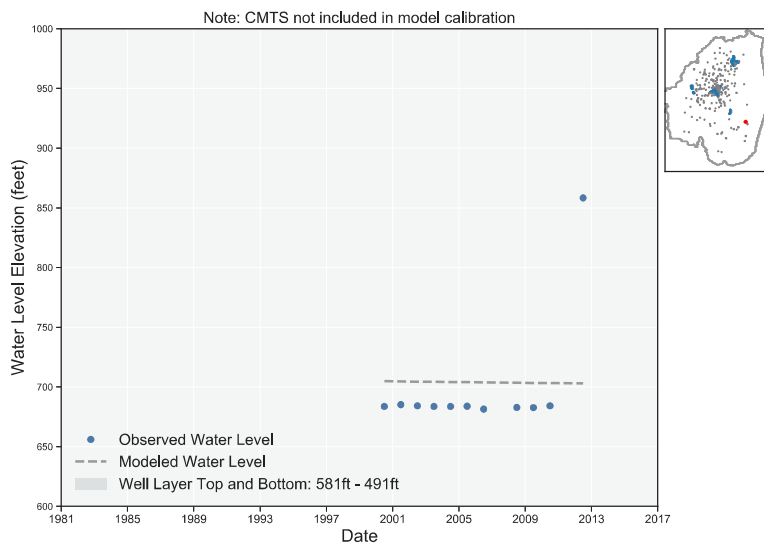
Well 82060 - Aq: CJDN Layers: 7 - 7



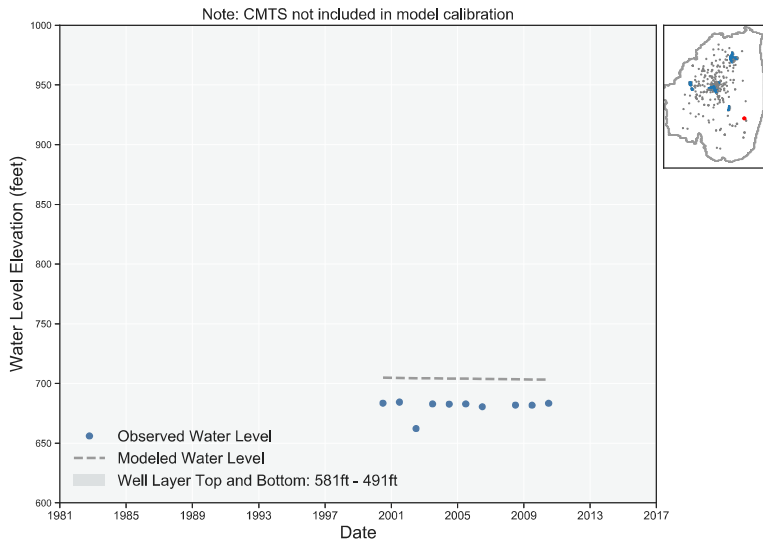
Well 82023 - Aq: QBAA Layers: 8 - 8



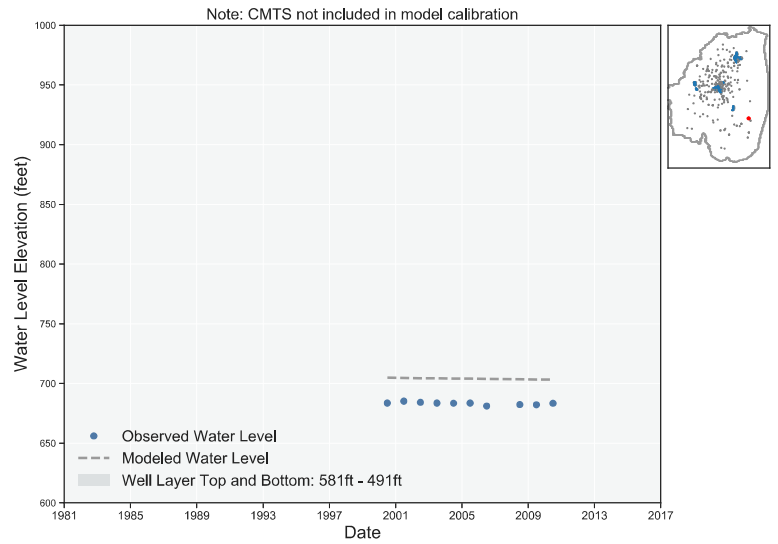
Well 82046 - Aq: CMTS Layers: 9 - 9



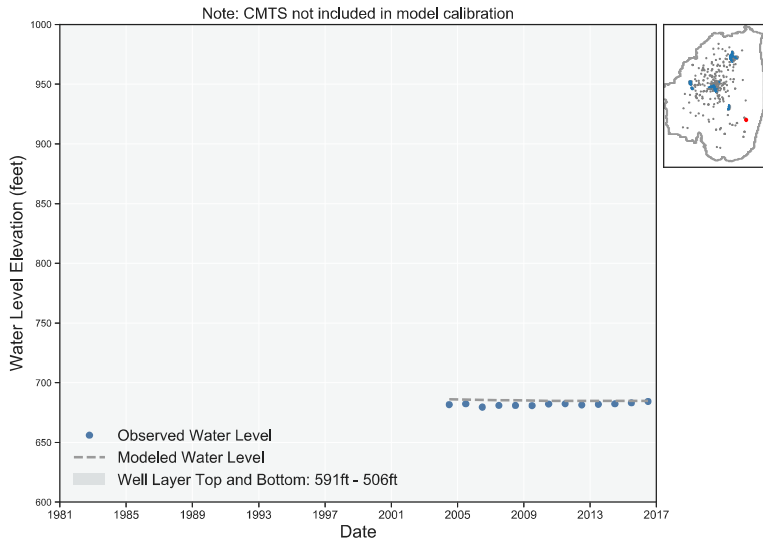
Well 82049 - Aq: CMTS Layers: 9 - 9



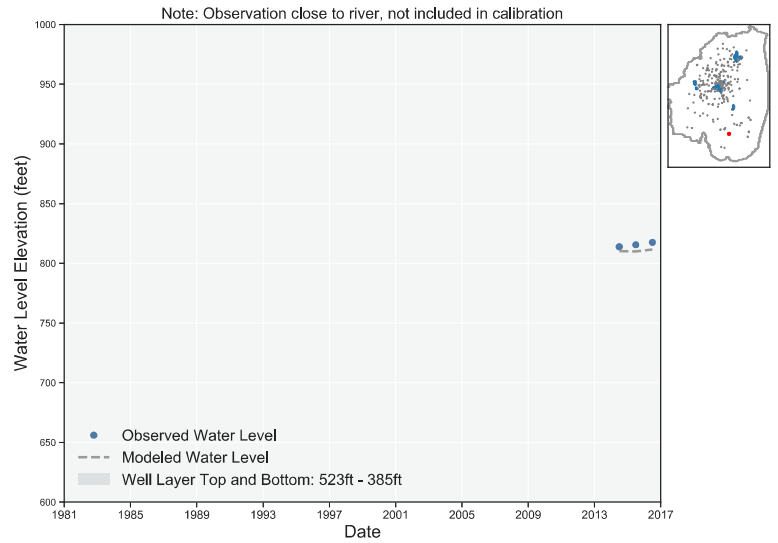
Well 82050 - Aq: CMTS Layers: 9 - 9



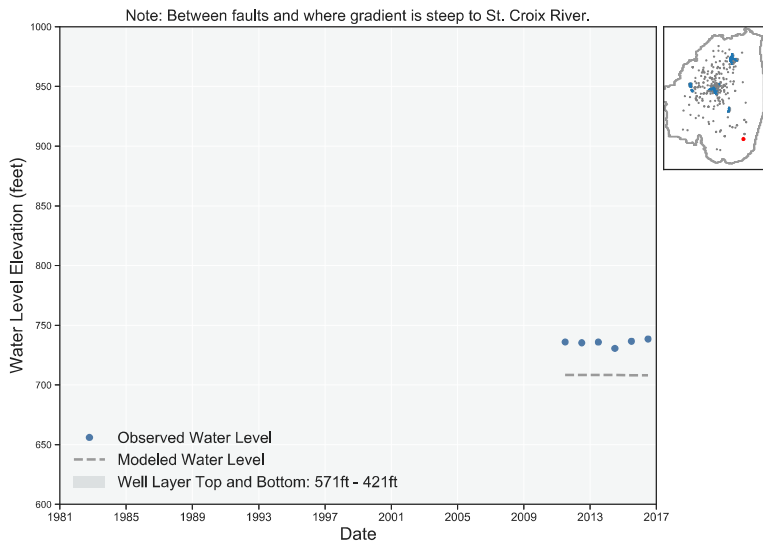
Well 82051 - Aq: CECRCMTS Layers: 9 - 9



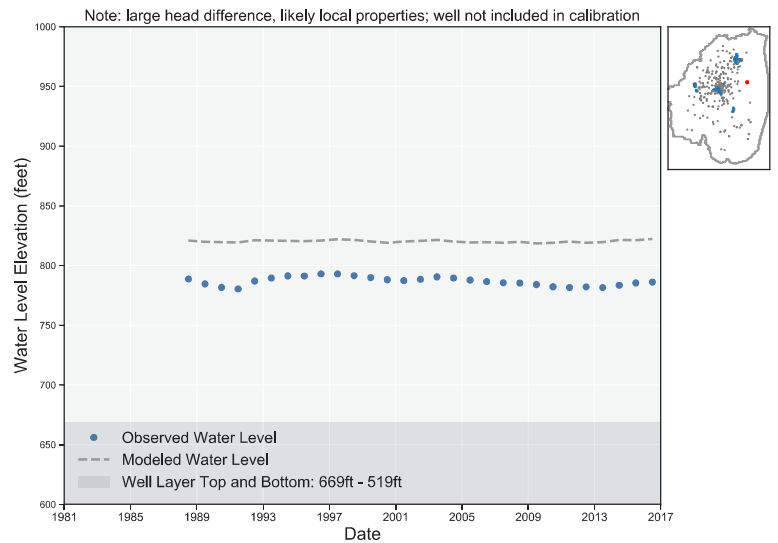
Well 82059 - Aq: CTCG Layers: 9 - 9



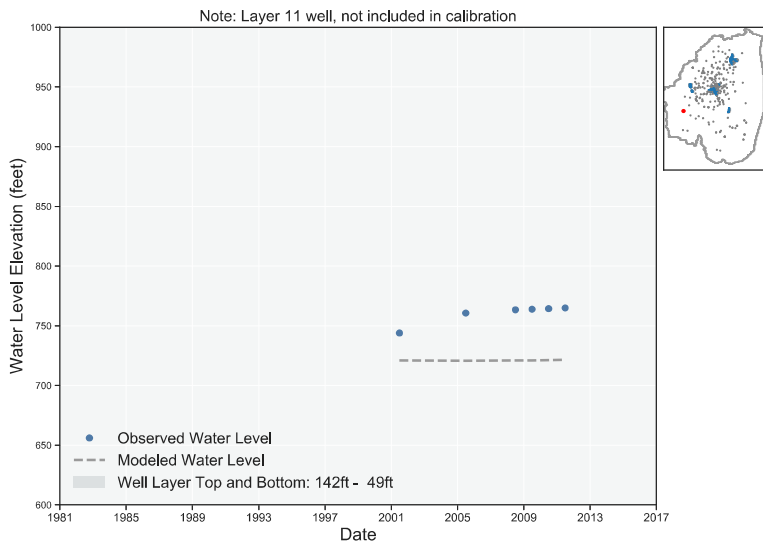
Well 82054 - Aq: CFG Layers: 9 - 9



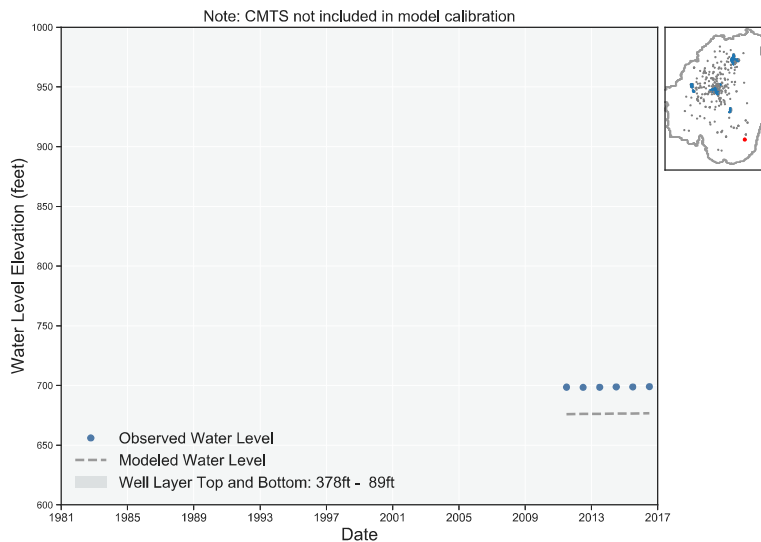
Well 82022 - Aq: CFRNCIGL Layers: 9 - 10



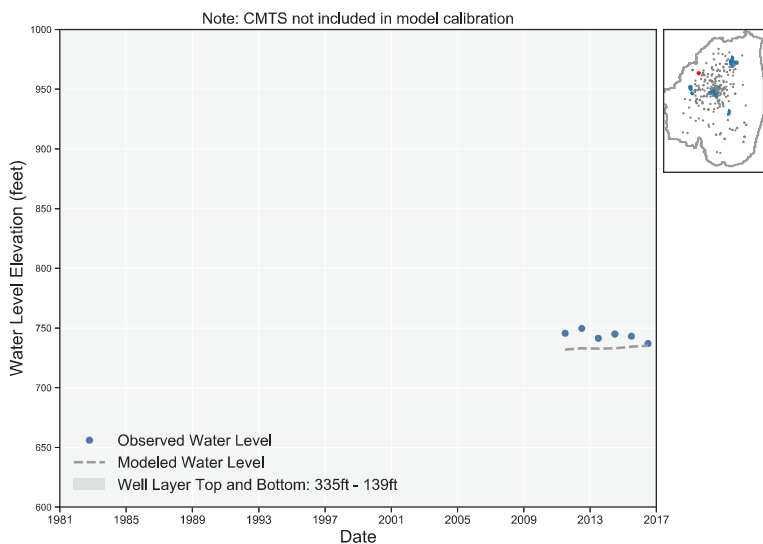
Well 62042 - Aq: CECR Layers: 11 - 11



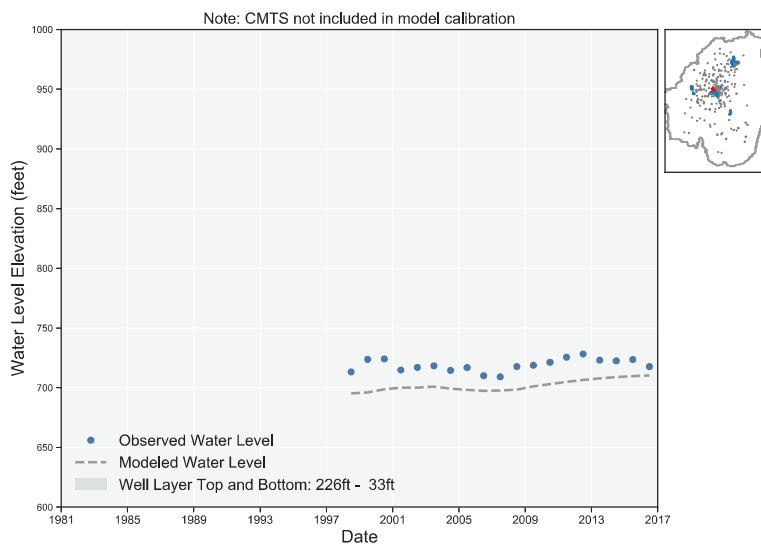
Well 82053 - Aq: CMTS Layers: 11 - 12



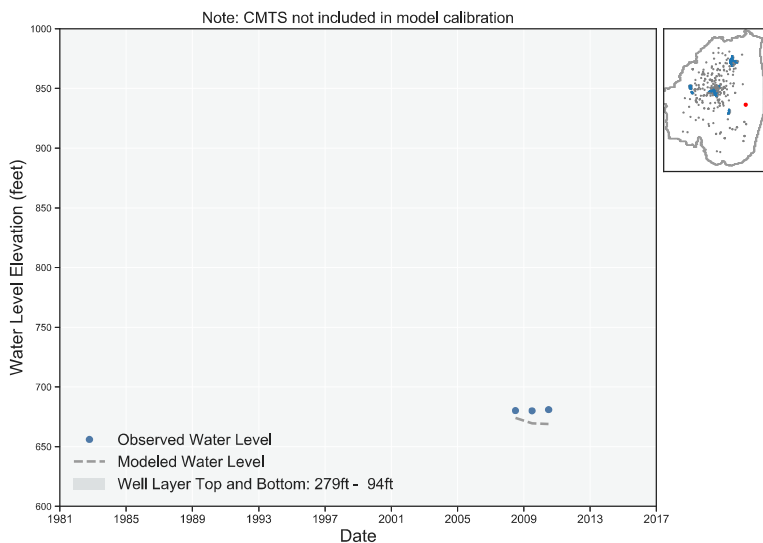
Well 2038 - Aq: CMTS Layers: 12 - 12



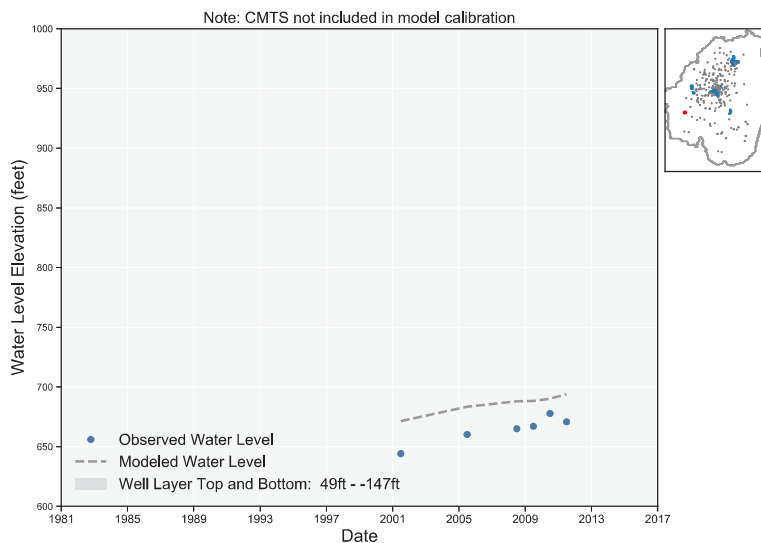
Well 62046 - Aq: CMTS Layers: 12 - 12



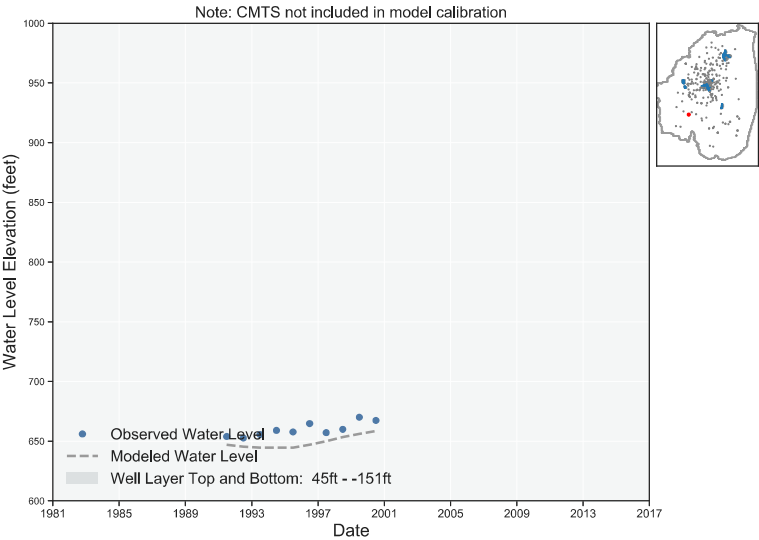
Well 82052 - Aq: CMTS Layers: 12 - 12



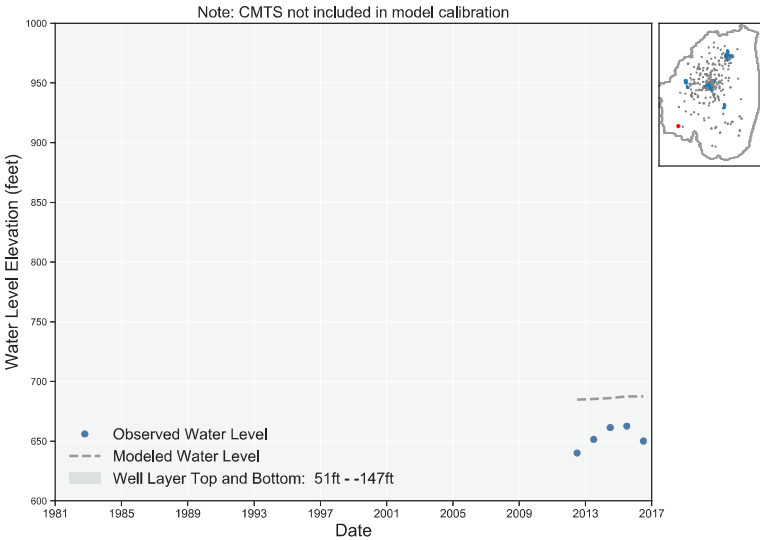
Well 62043 - Aq: CMTS Layers: 12 - 12



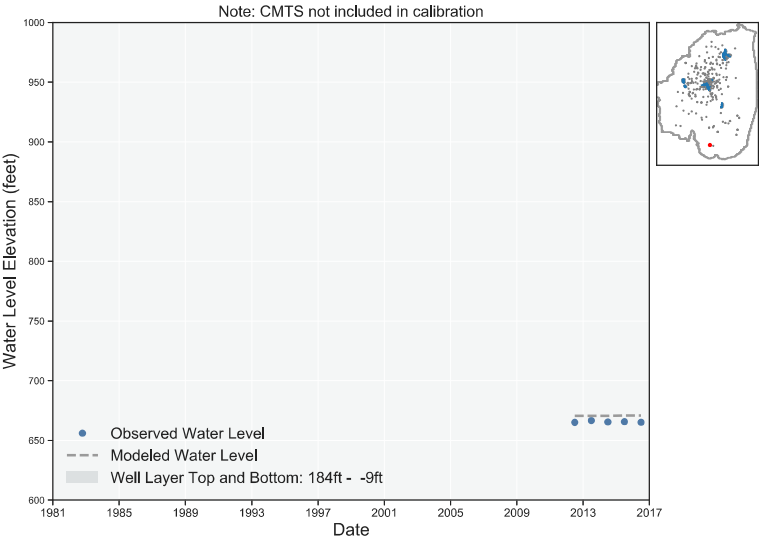
Well 62036 - Aq: CMTS Layers: 12 - 12



Well 27069 - Aq: CMTS Layers: 12 - 12

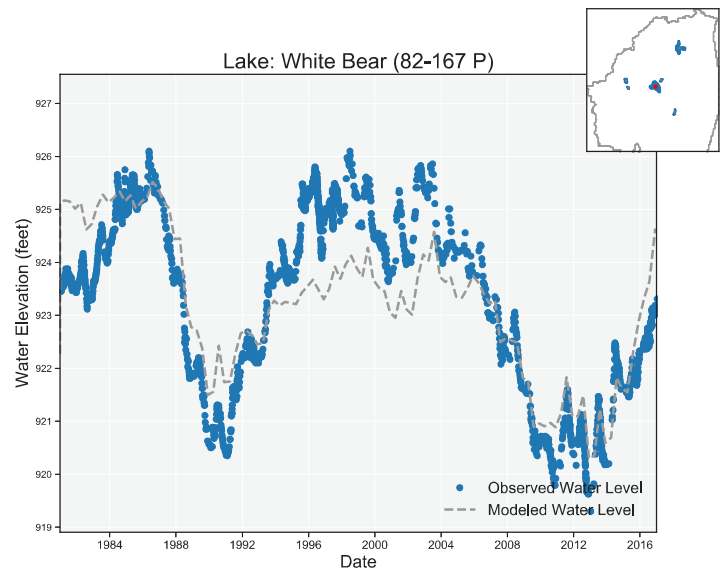
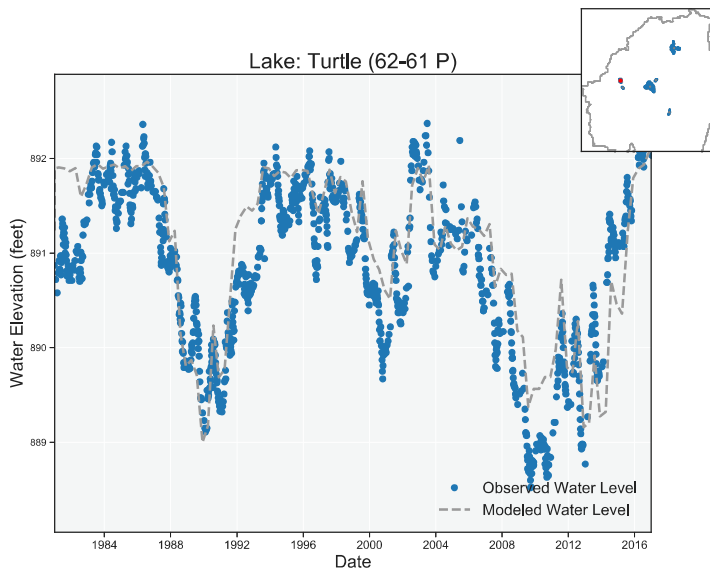
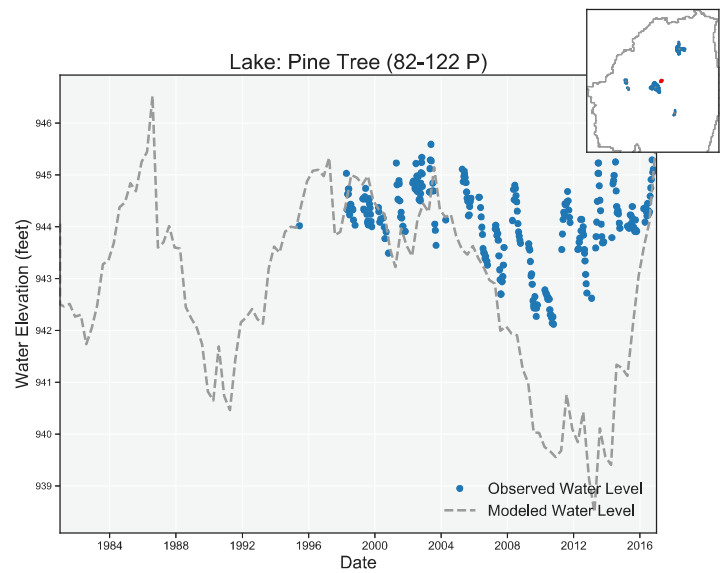
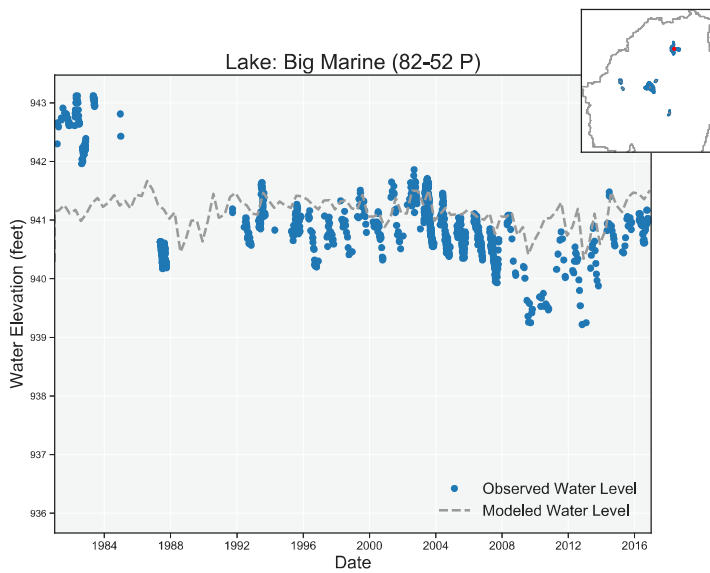
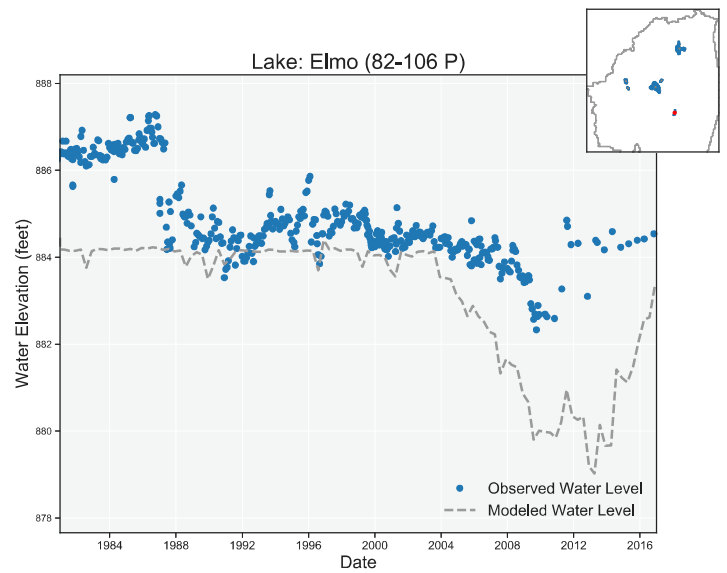
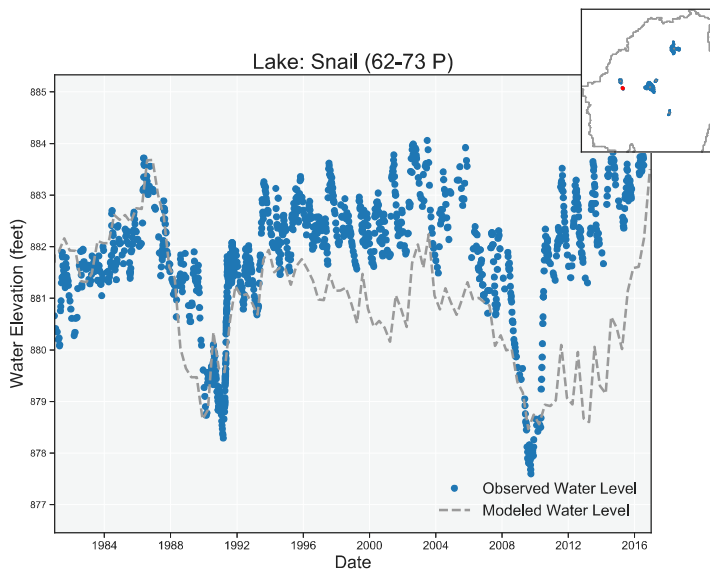


Well 82056 - Aq: CMTS Layers: 12 - 12

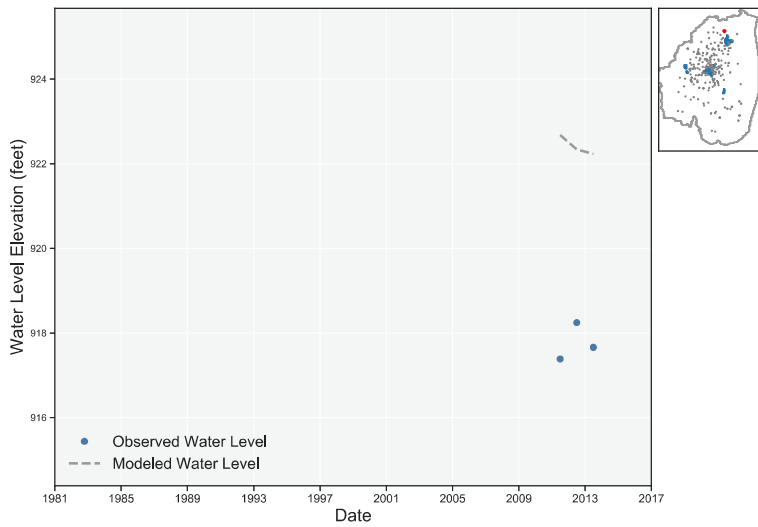


Appendix B-4

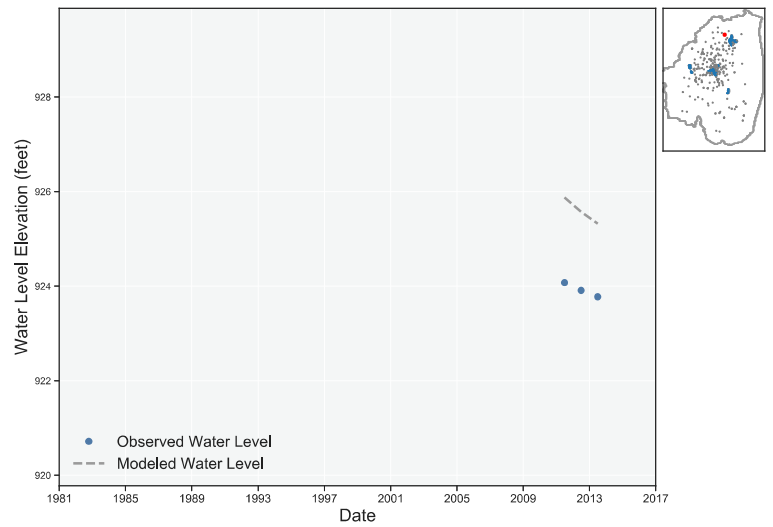
Auto-scaled Plots for the Triannual Stress Period Model



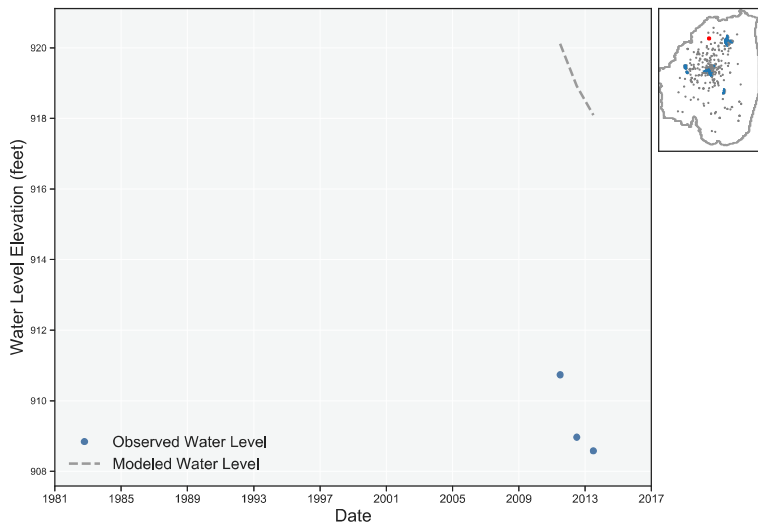
Well 138275 - Aq: QBAA Layers: 4 - 4



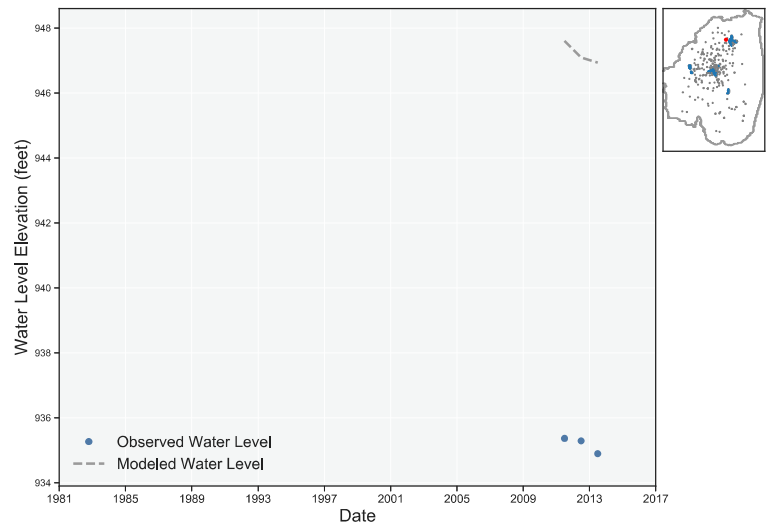
Well 446292 - Aq: QBAA Layers: 4 - 4



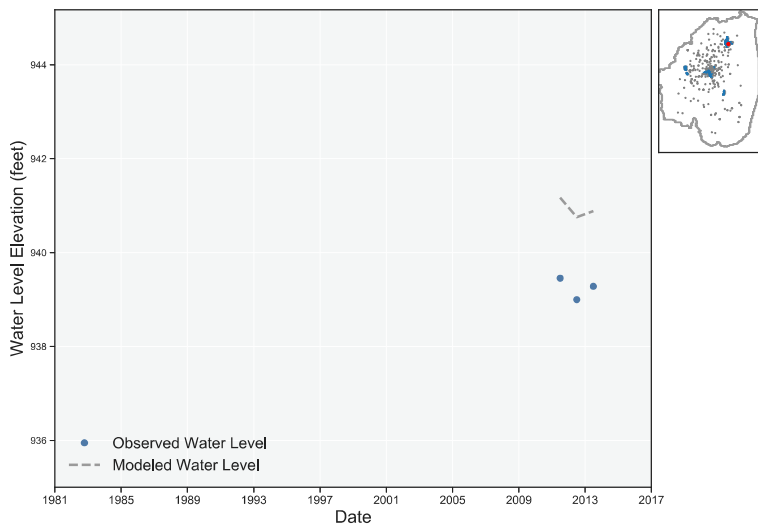
Well 404644 - Aq: QBAA Layers: 4 - 4



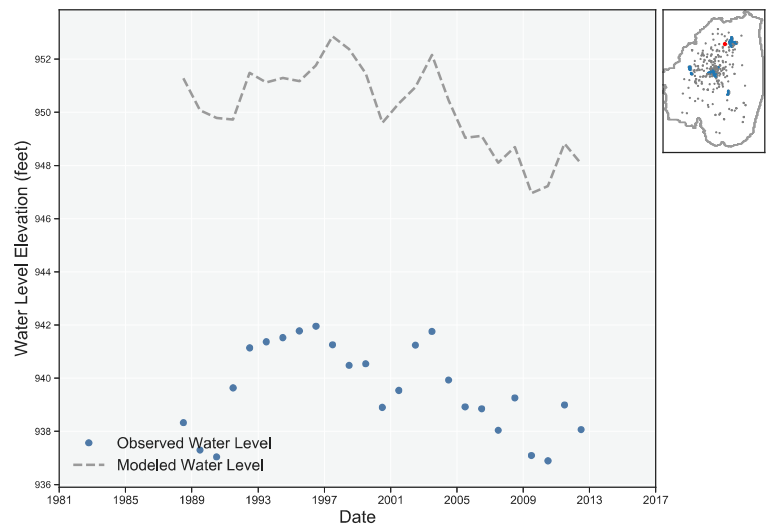
Well 112422 - Aq: QBAA Layers: 4 - 4



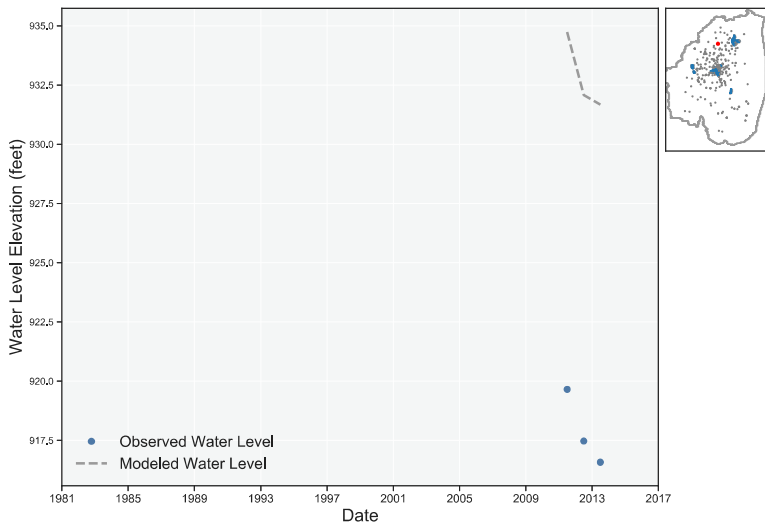
Well 139010 - Aq: QBAA Layers: 4 - 4



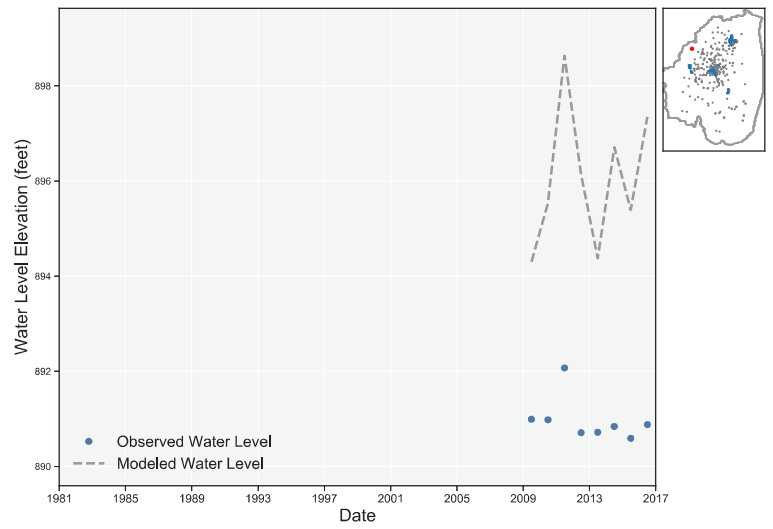
Well 82036 - Aq: QWTA Layers: 4 - 4



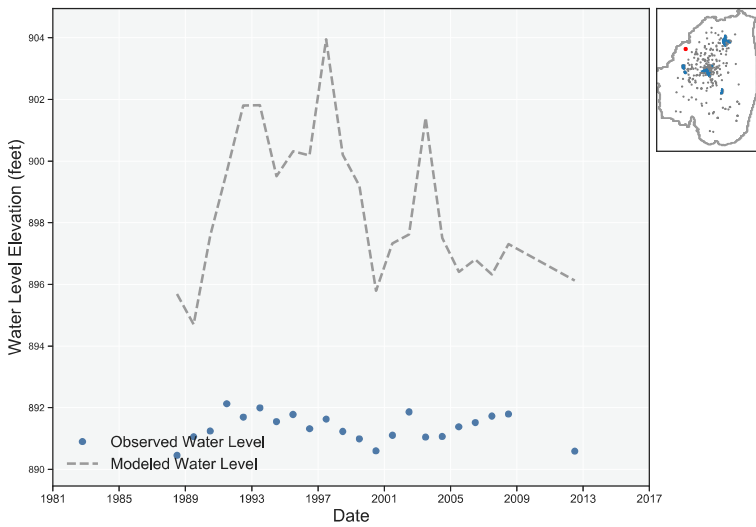
Well 136144 - Aq: QBAA Layers: 4 - 4



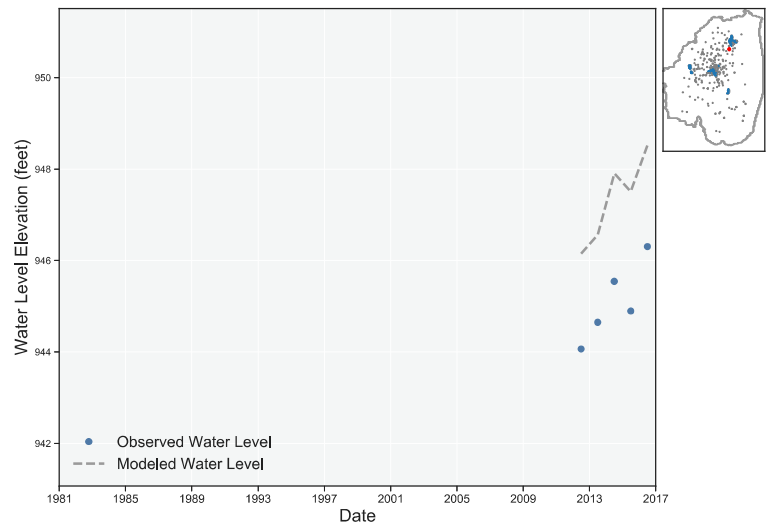
Well 2030 - Aq: QWTA Layers: 4 - 4



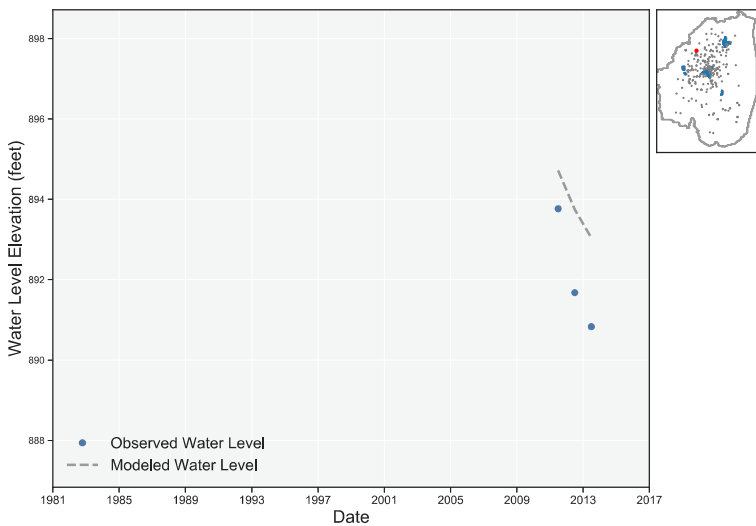
Well 2010 - Aq: QWTA Layers: 4 - 4



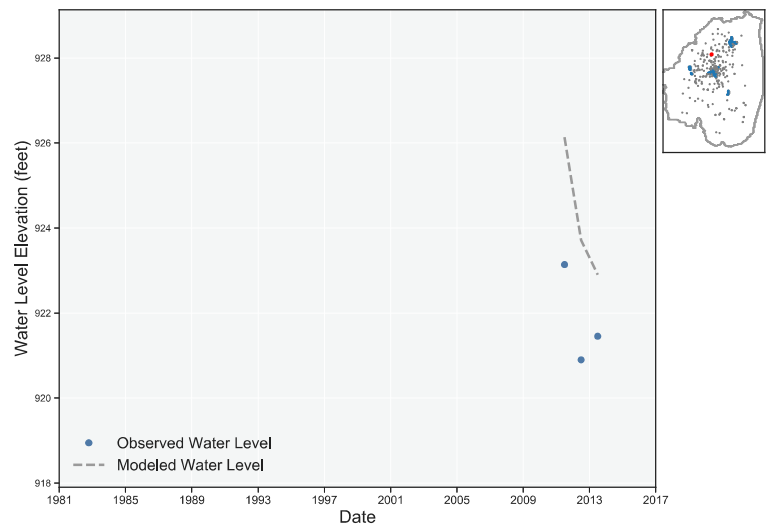
Well 82055 - Aq: QBAA Layers: 4 - 4



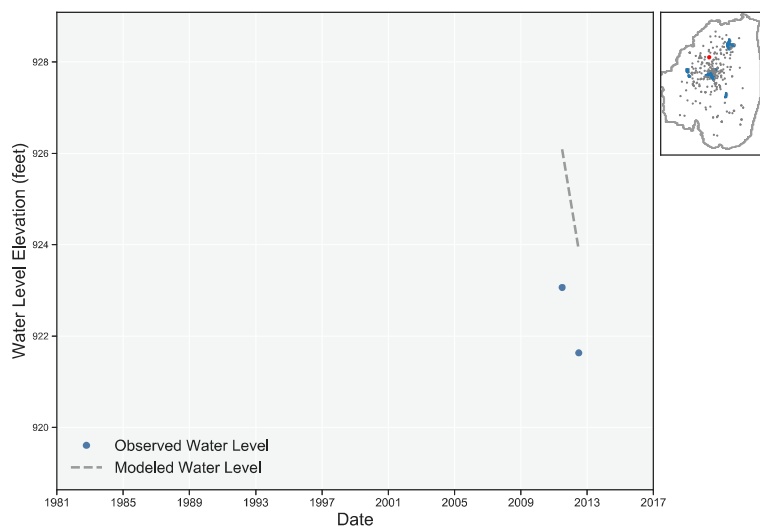
Well 169252 - Aq: QBAA Layers: 4 - 4



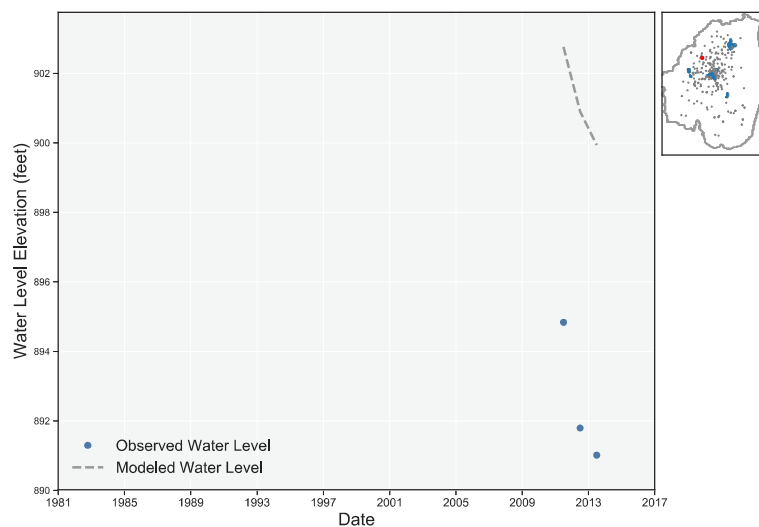
Well 620717 - Aq: QWTA Layers: 4 - 4



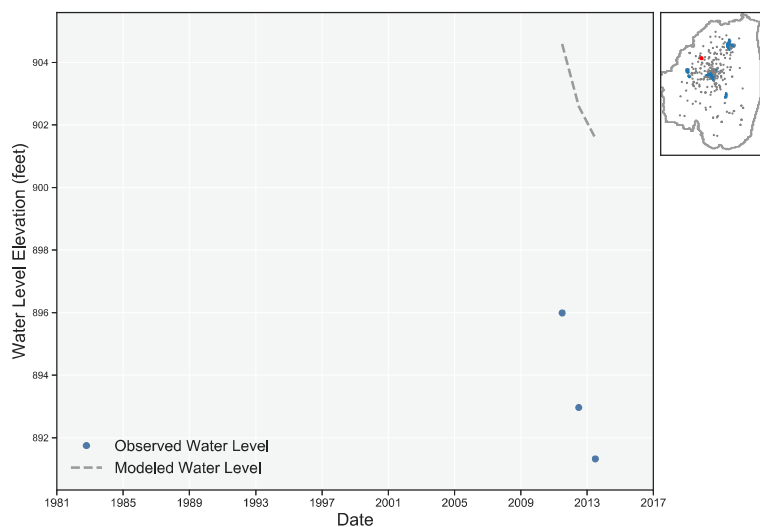
Well 620718 - Aq: QWTA Layers: 4 - 4



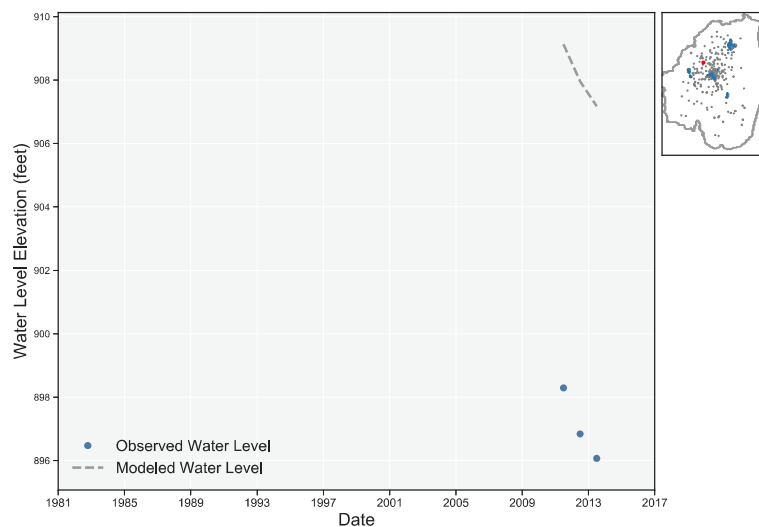
Well 435278 - Aq: QBAA Layers: 4 - 4



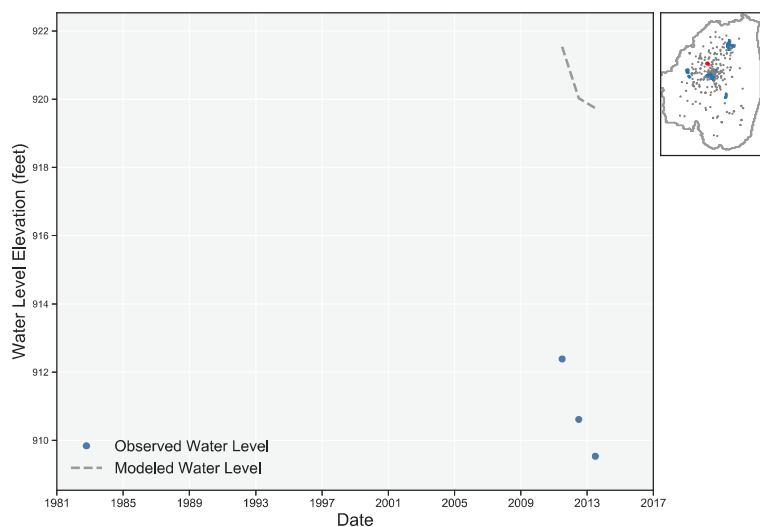
Well 435308 - Aq: QBAA Layers: 4 - 4



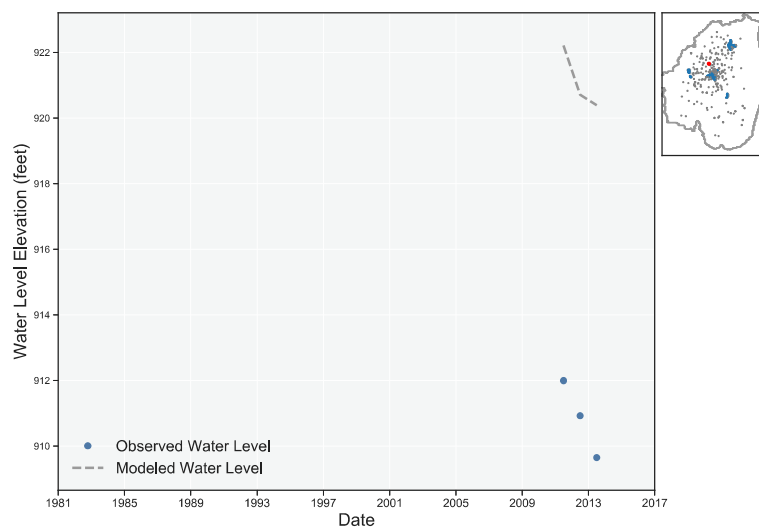
Well 126870 - Aq: QBAA Layers: 4 - 4



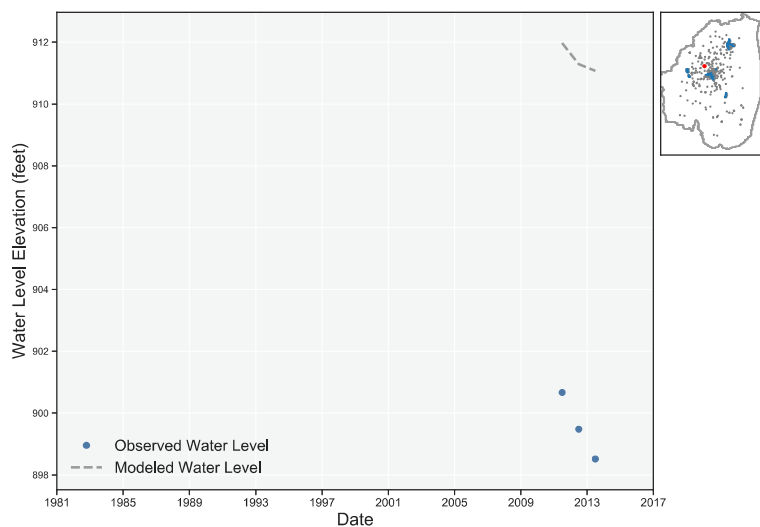
Well 465951 - Aq: QBAA Layers: 4 - 4



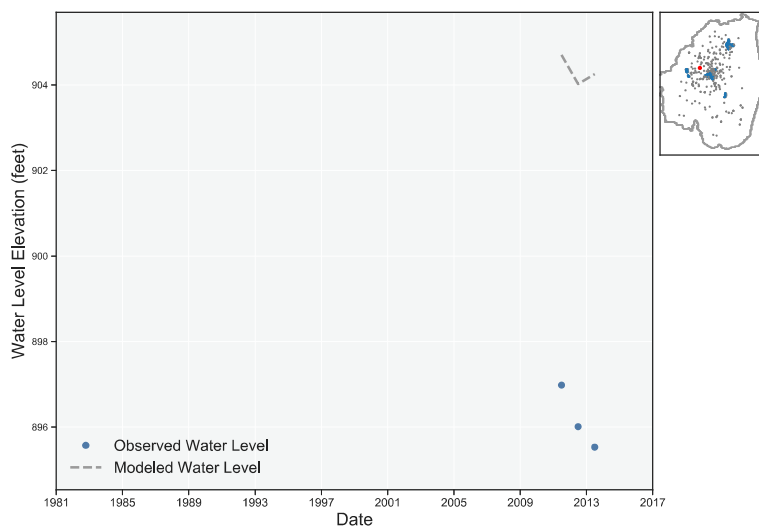
Well 496784 - Aq: QBAA Layers: 4 - 4



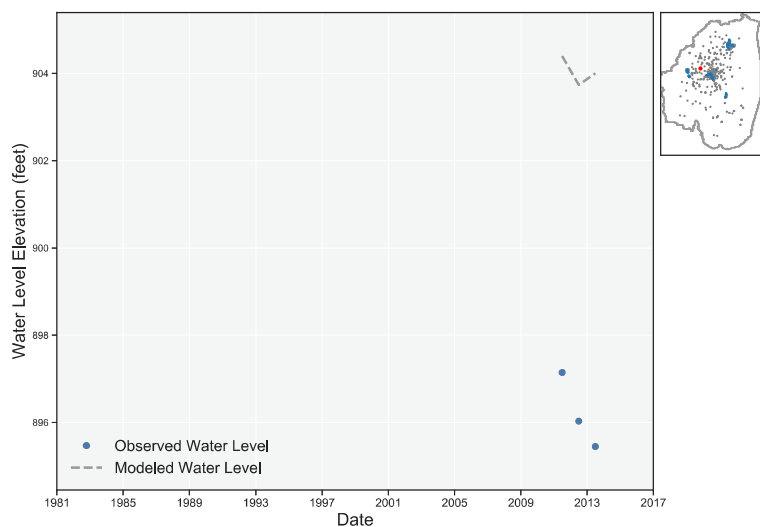
Well 112442 - Aq: QBAA Layers: 4 - 4



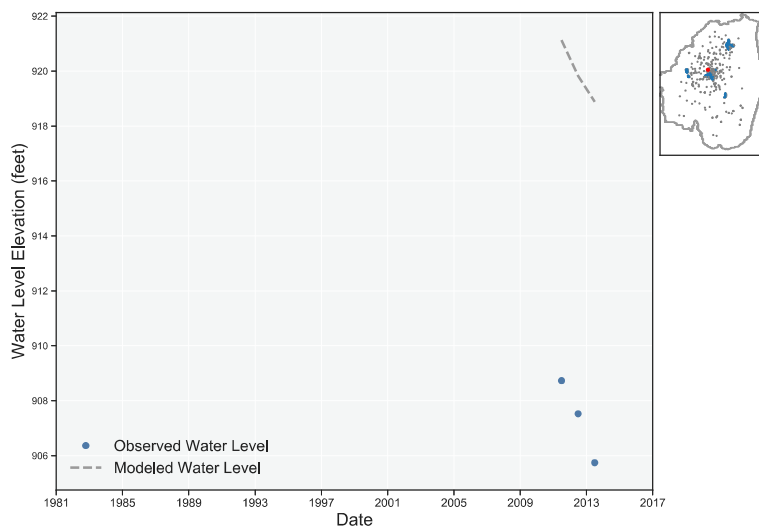
Well 430506 - Aq: QBAA Layers: 4 - 4



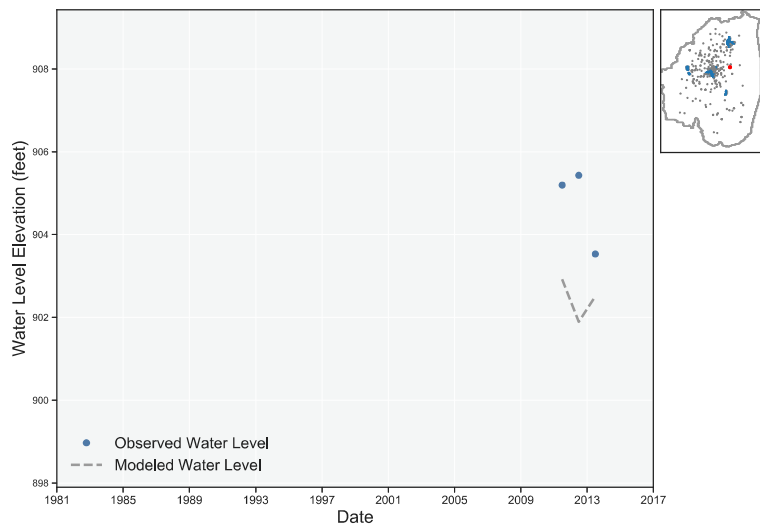
Well 130810 - Aq: QBAA Layers: 4 - 4



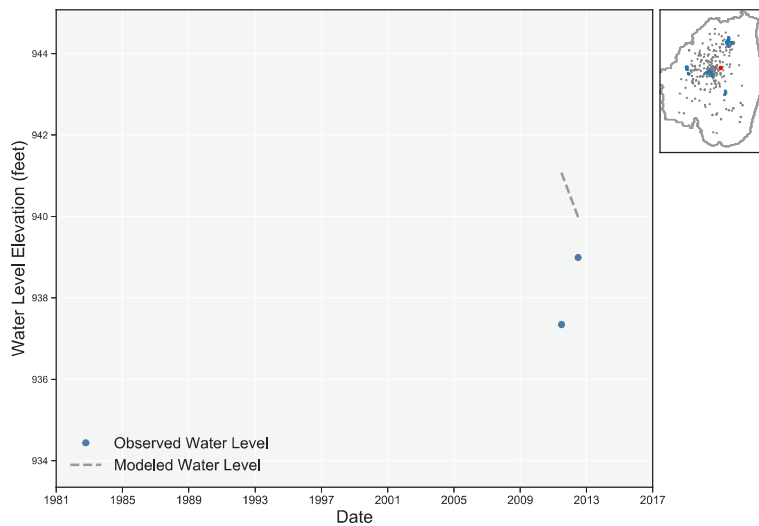
Well 141728 - Aq: Q Layers: 4 - 4



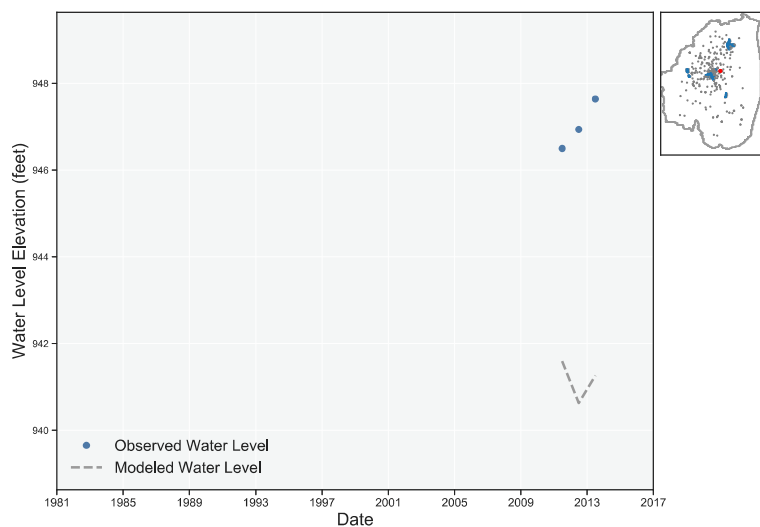
Well 153500 - Aq: QWTA Layers: 4 - 4



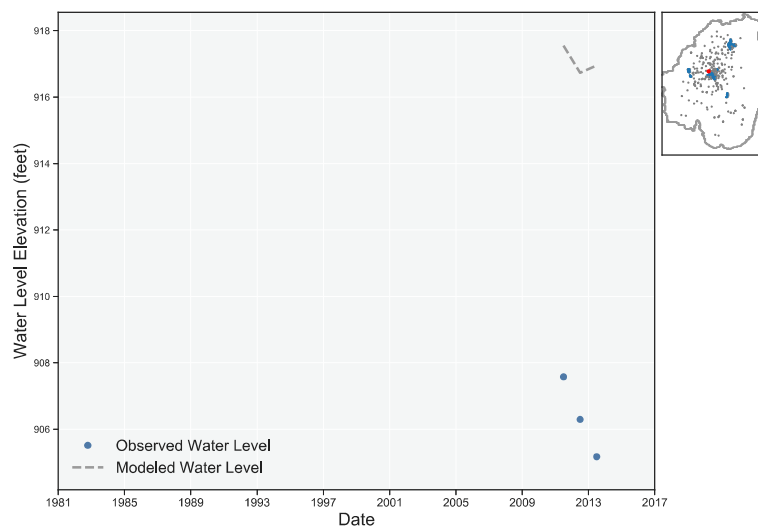
Well 418799 - Aq: QBAA Layers: 4 - 4



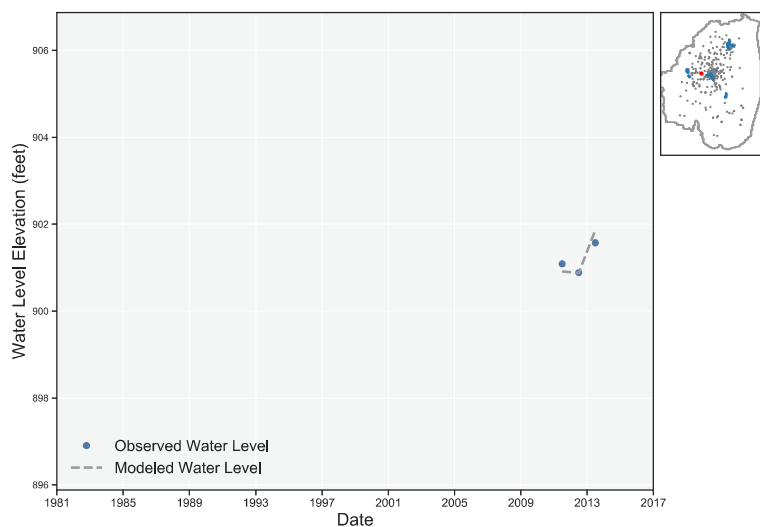
Well 404277 - Aq: QWTA Layers: 4 - 4



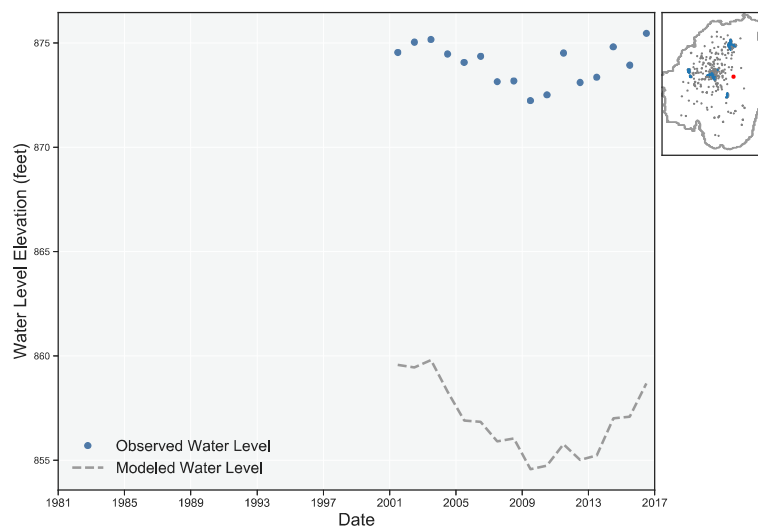
Well 186956 - Aq: Q Layers: 4 - 4



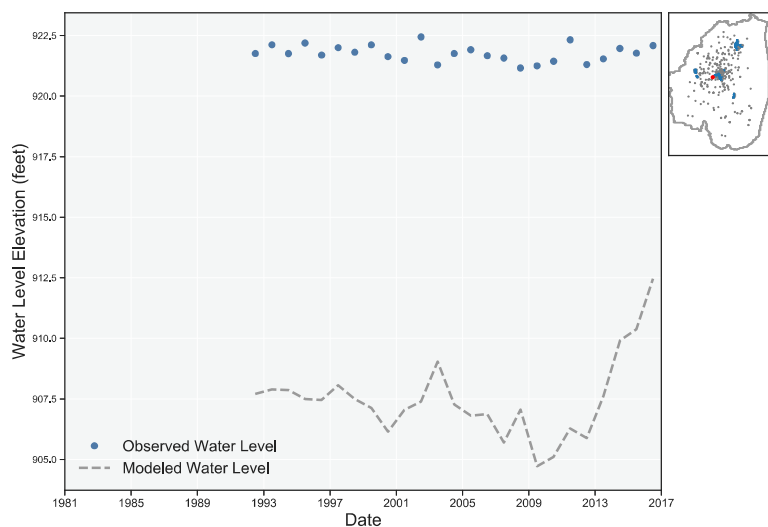
Well 173943 - Aq: QBAA Layers: 4 - 4



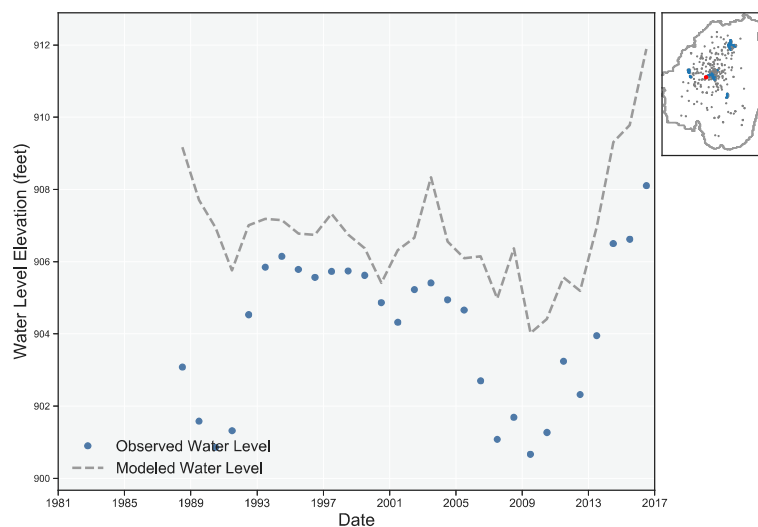
Well 82048 - Aq: QBAA Layers: 4 - 4



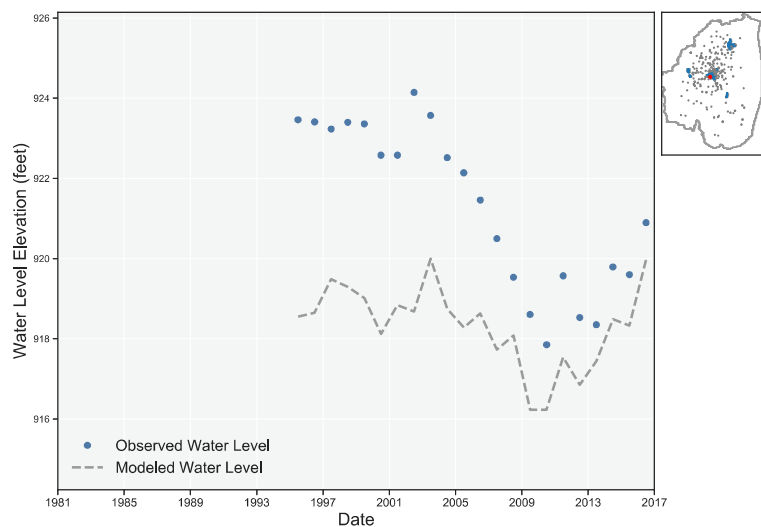
Well 62039 - Aq: QWTA Layers: 4 - 4



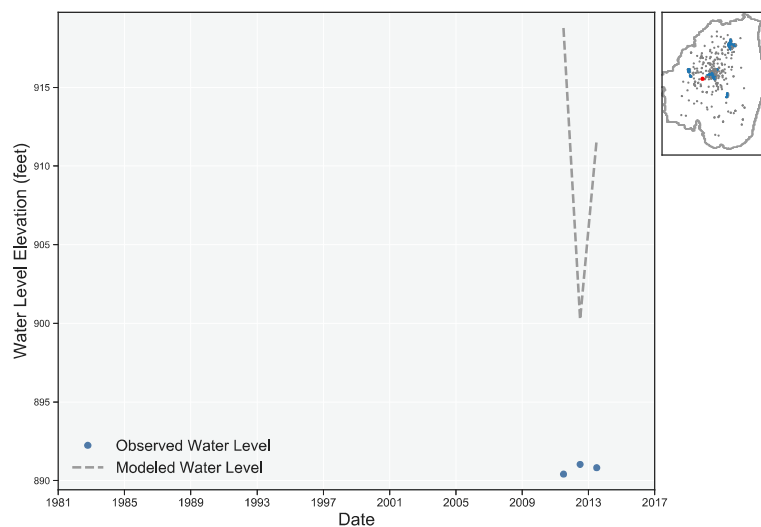
Well 62033 - Aq: QBAA Layers: 4 - 4



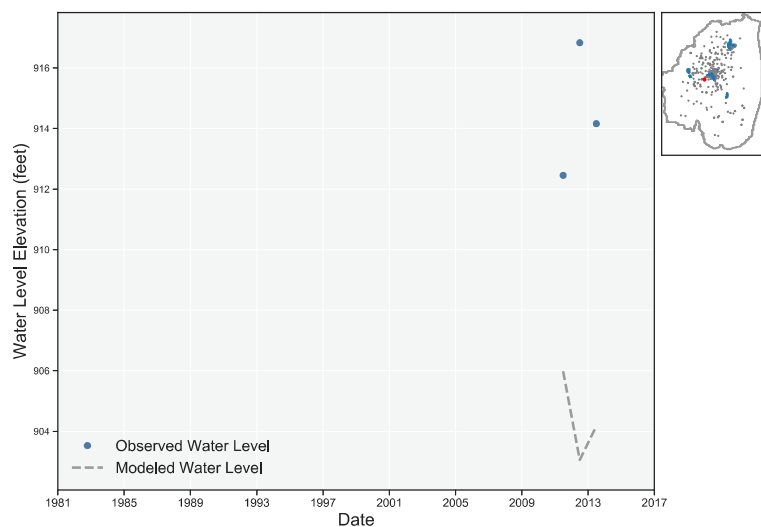
Well 62045 - Aq: QBAA Layers: 4 - 4



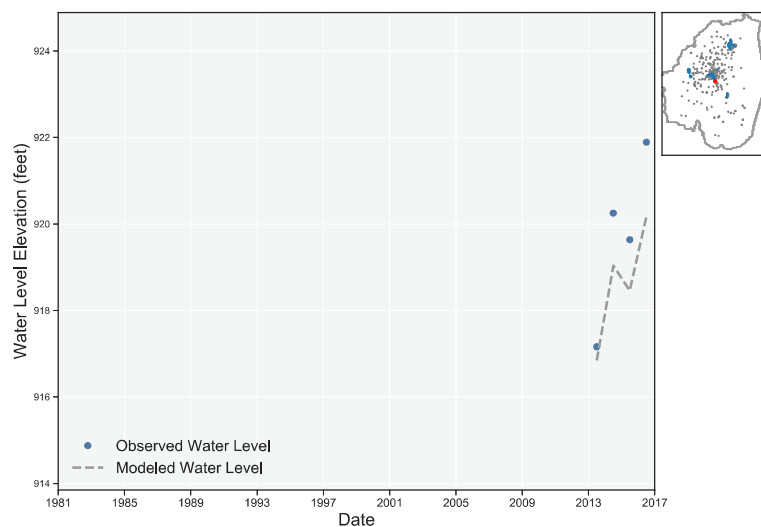
Well 151732 - Aq: Q Layers: 4 - 4



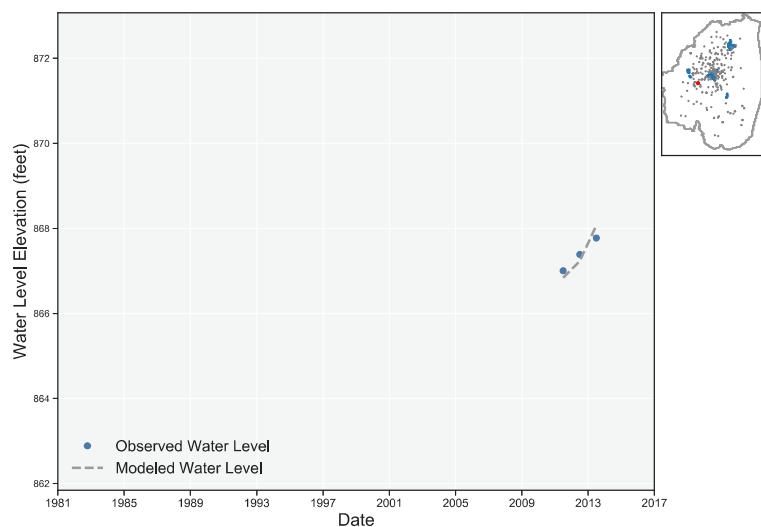
Well 401598 - Aq: QBUA Layers: 4 - 4



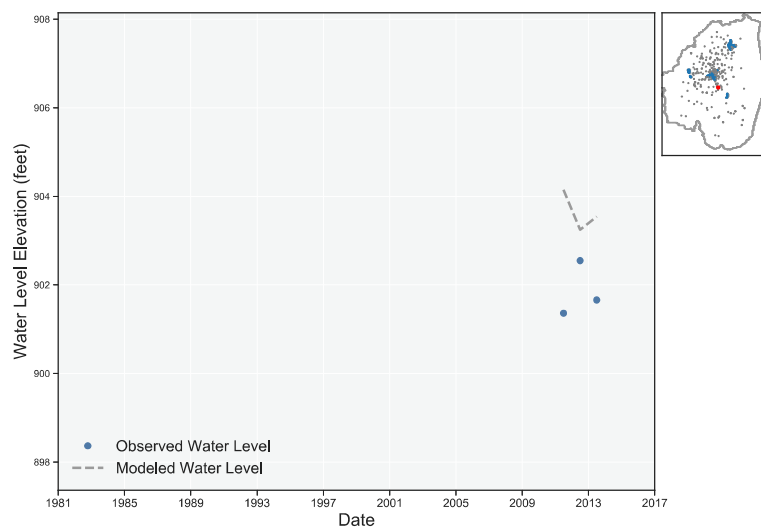
Well 82057 - Aq: QWTA Layers: 4 - 4



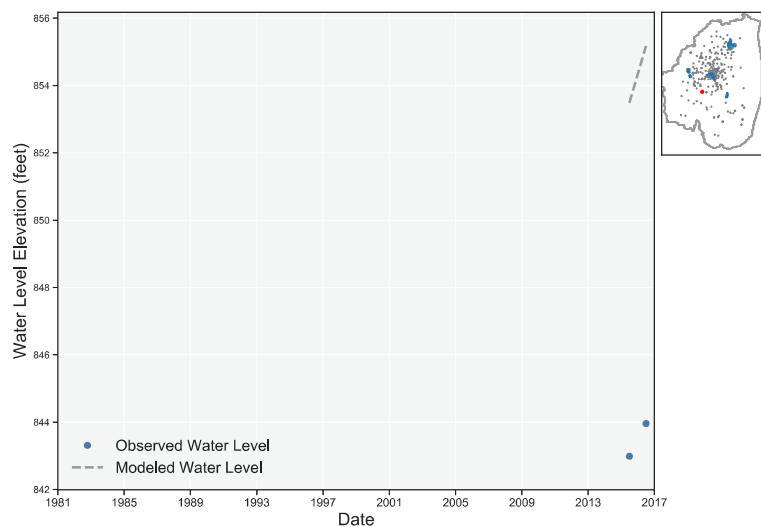
Well 107006 - Aq: QBAA Layers: 4 - 4



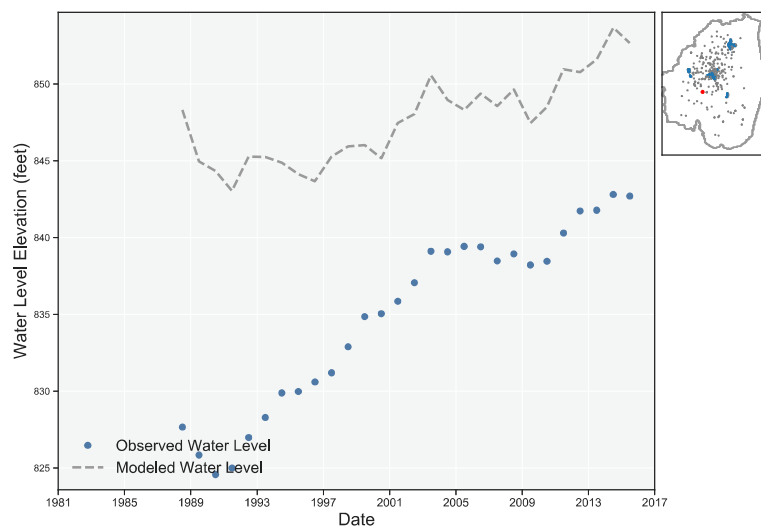
Well 436676 - Aq: QBAA Layers: 4 - 4



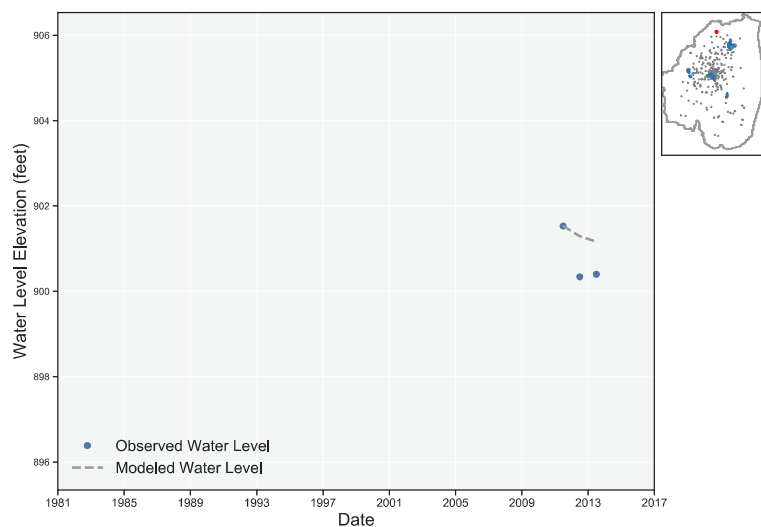
Well 62055 - Aq: QWTA Layers: 4 - 4



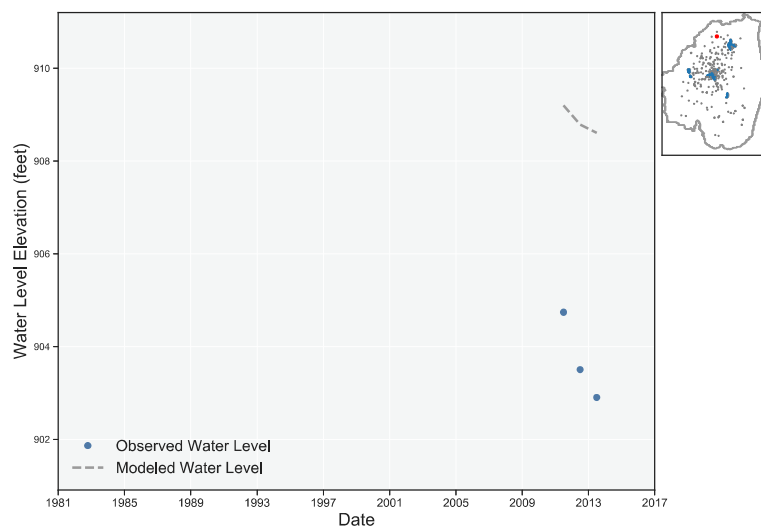
Well 62008 - Aq: QBAA Layers: 4 - 4



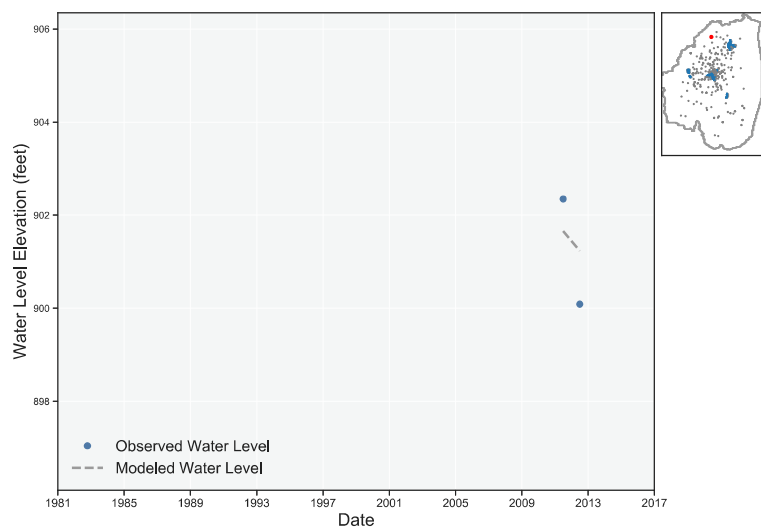
Well 178258 - Aq: QBAA Layers: 5 - 5



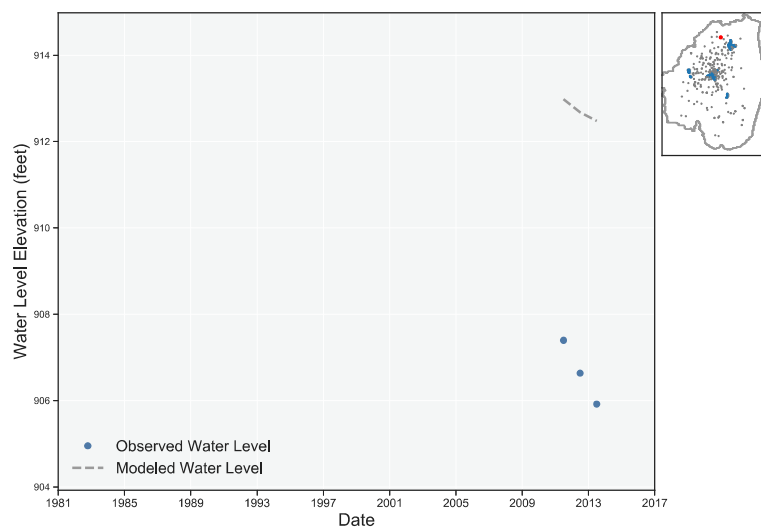
Well 428561 - Aq: QBAA Layers: 5 - 5



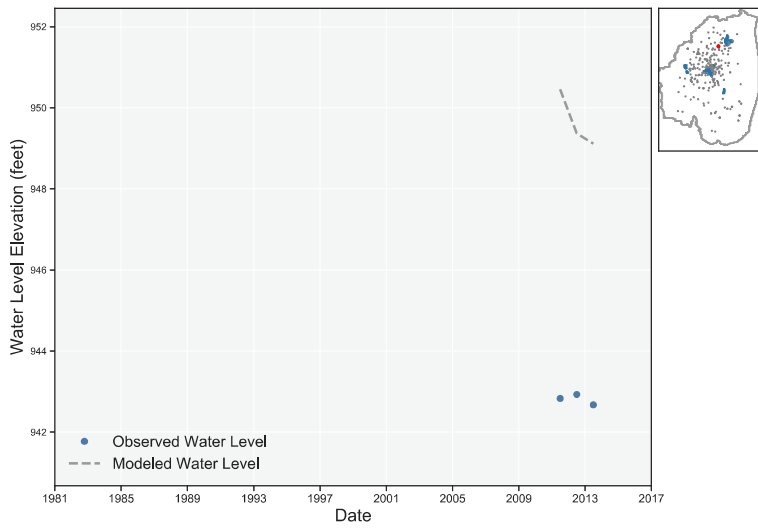
Well 150944 - Aq: QBAA Layers: 5 - 5



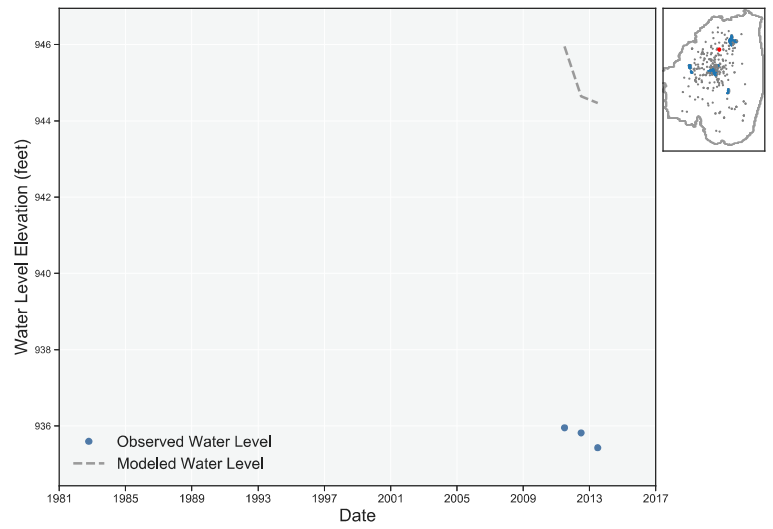
Well 420316 - Aq: QBAA Layers: 5 - 5



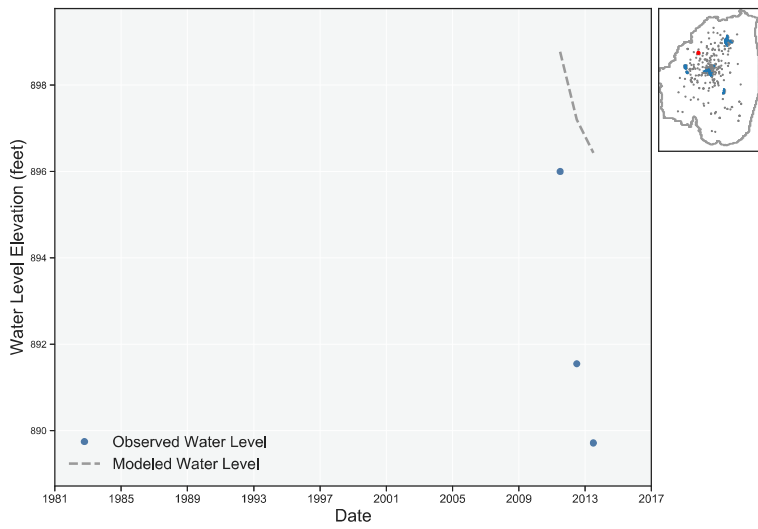
Well 112661 - Aq: QBAA Layers: 5 - 5



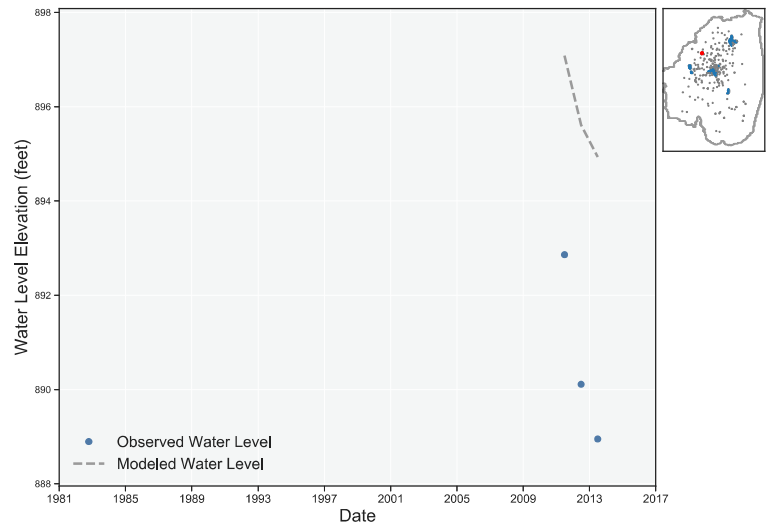
Well 485406 - Aq: OSTP Layers: 5 - 5



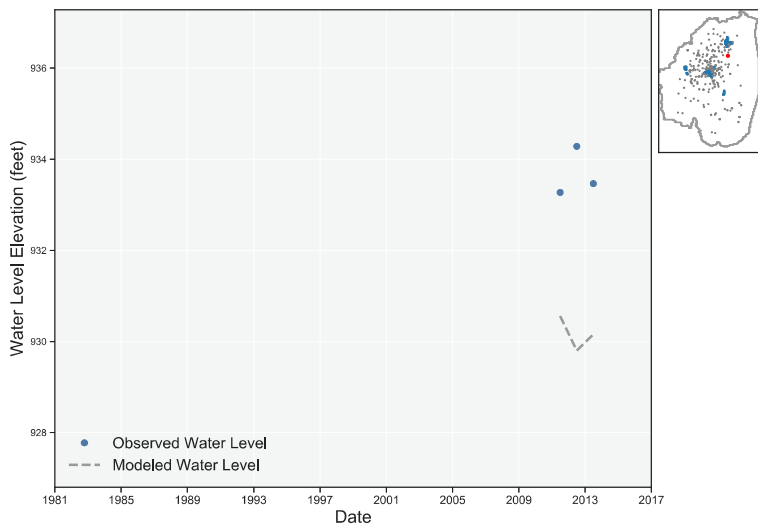
Well 439244 - Aq: OSTP Layers: 5 - 5



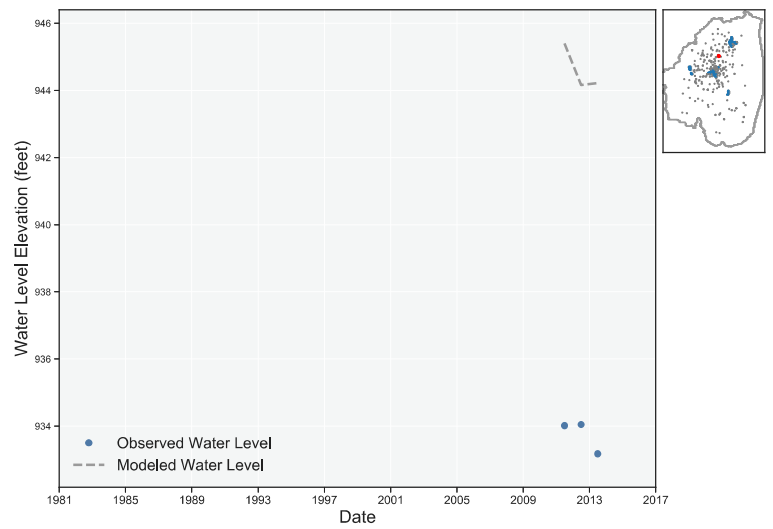
Well 439246 - Aq: OSTP Layers: 5 - 5



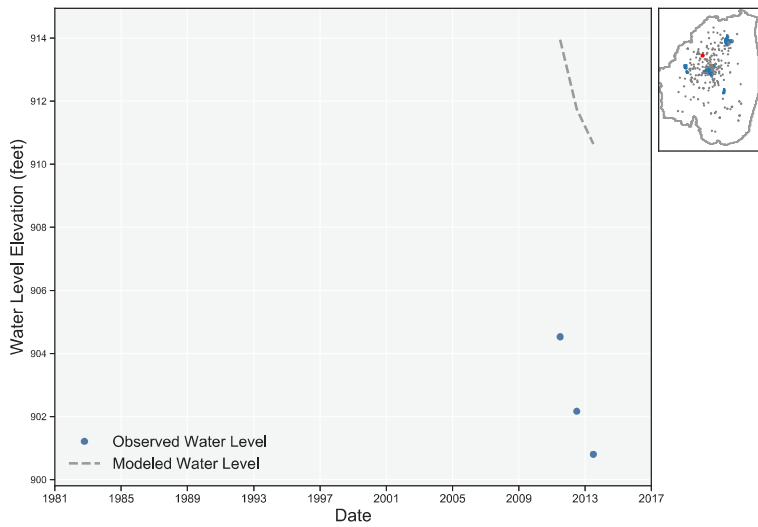
Well 411608 - Aq: QBAA Layers: 5 - 5



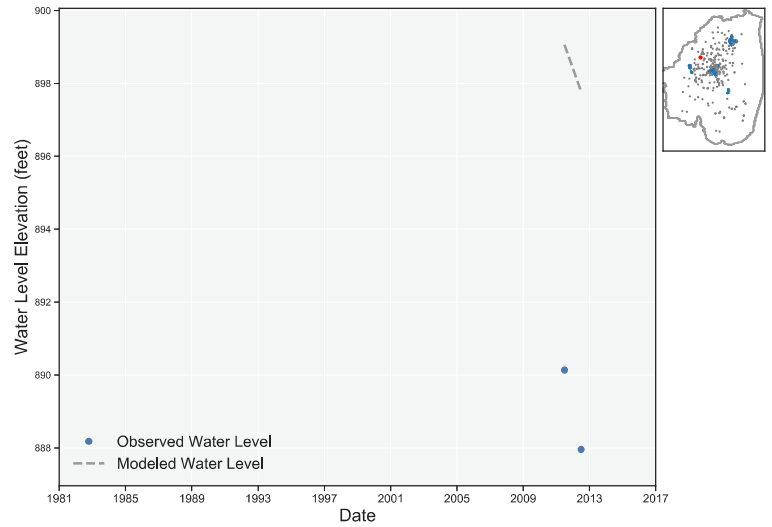
Well 410174 - Aq: OSTP Layers: 5 - 5



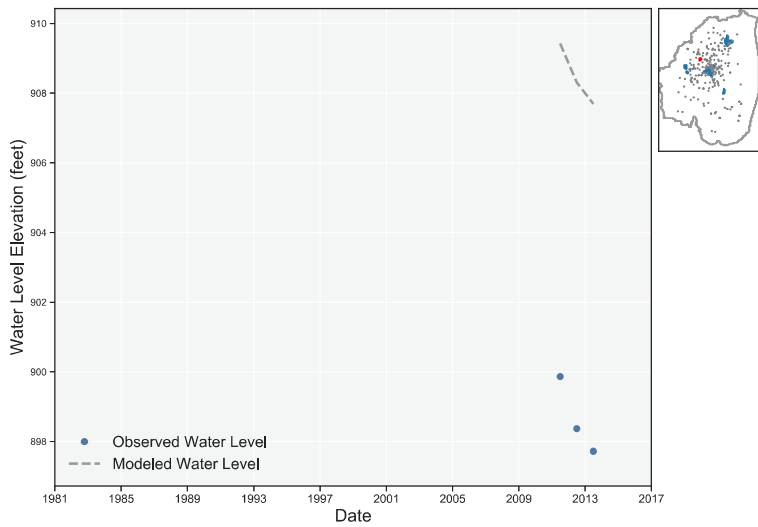
Well 162295 - Aq: OSTP Layers: 5 - 5



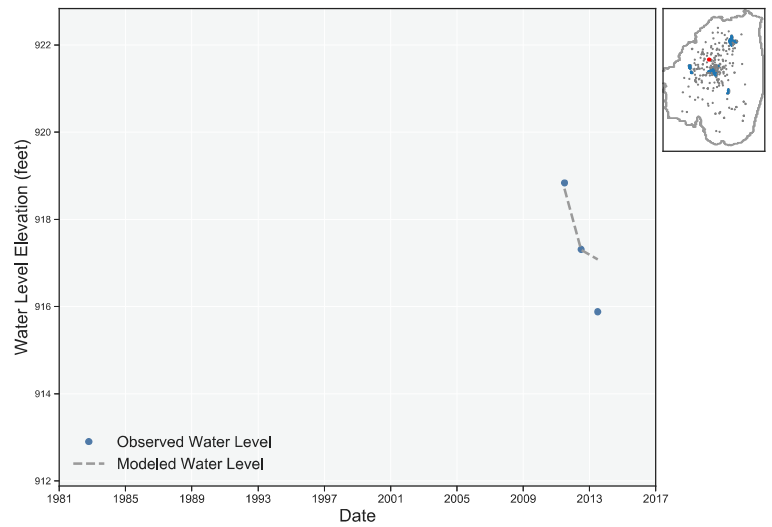
Well 164776 - Aq: OSTP Layers: 5 - 5



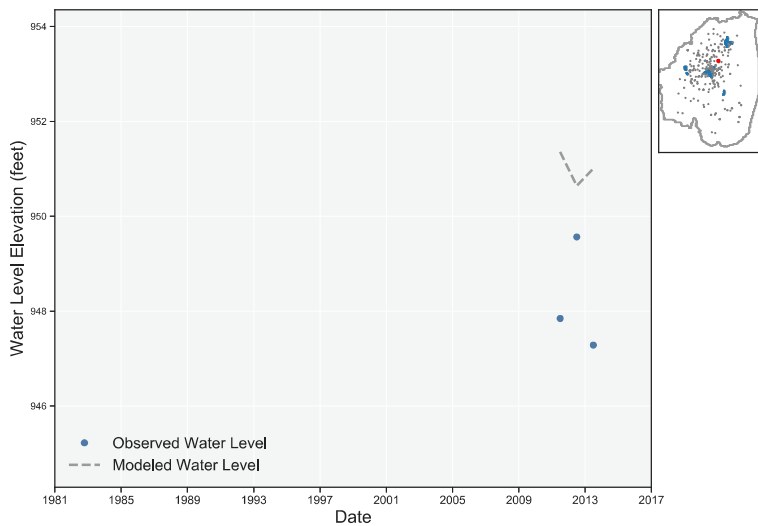
Well 755580 - Aq: OSTP Layers: 5 - 5



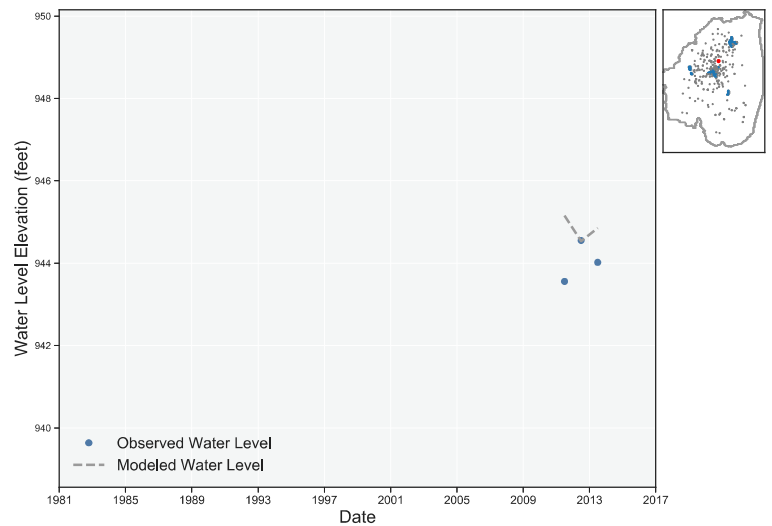
Well 653756 - Aq: QBAA Layers: 5 - 5



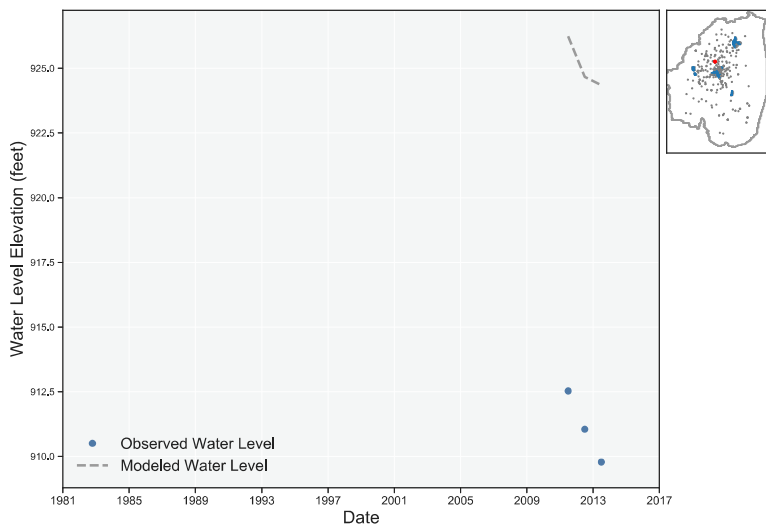
Well 429100 - Aq: OSTP Layers: 5 - 5



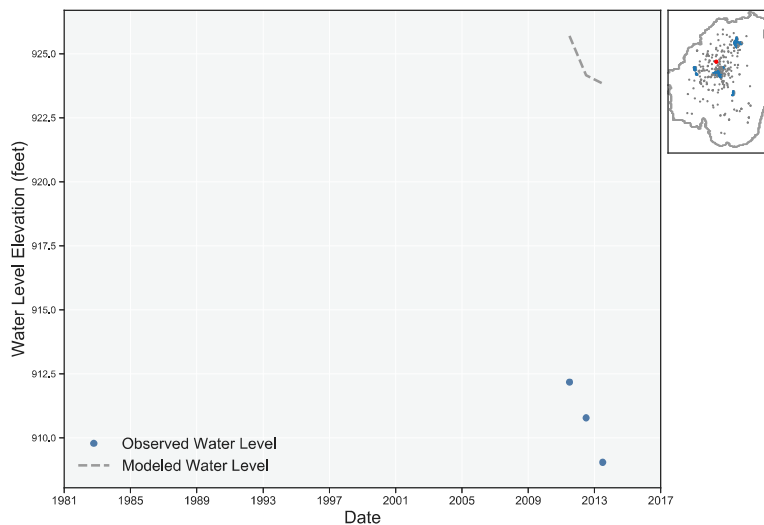
Well 138268 - Aq: OSTP Layers: 5 - 5



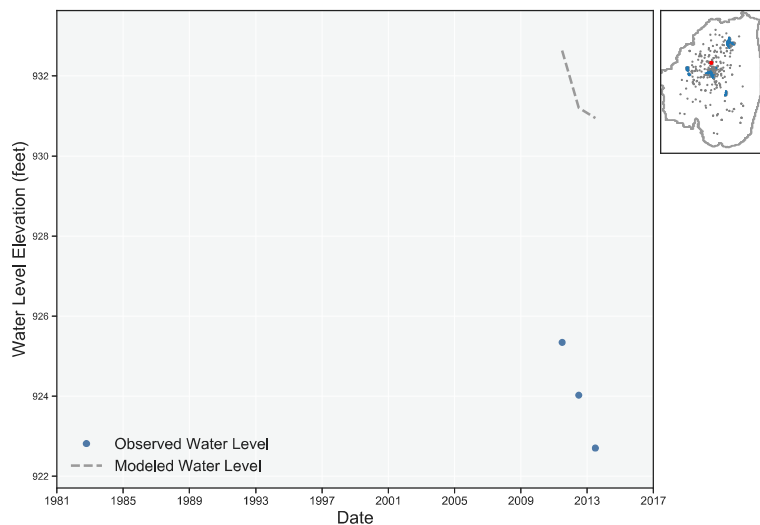
Well 469841 - Aq: QBAA Layers: 5 - 5



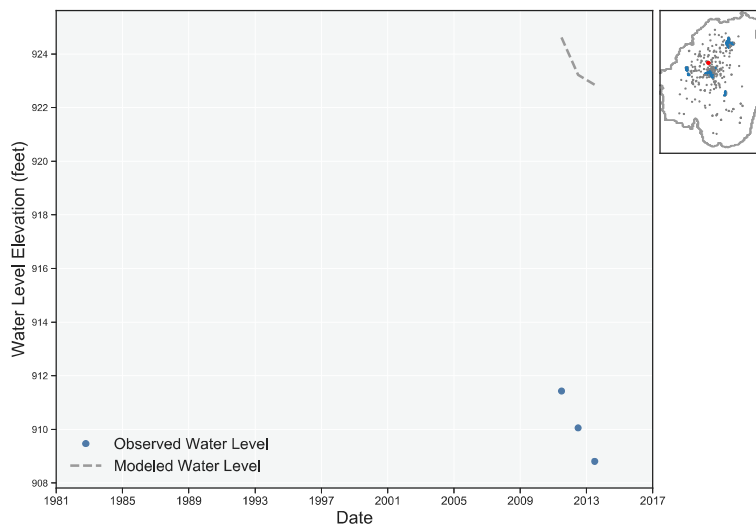
Well 163708 - Aq: QBAA Layers: 5 - 5



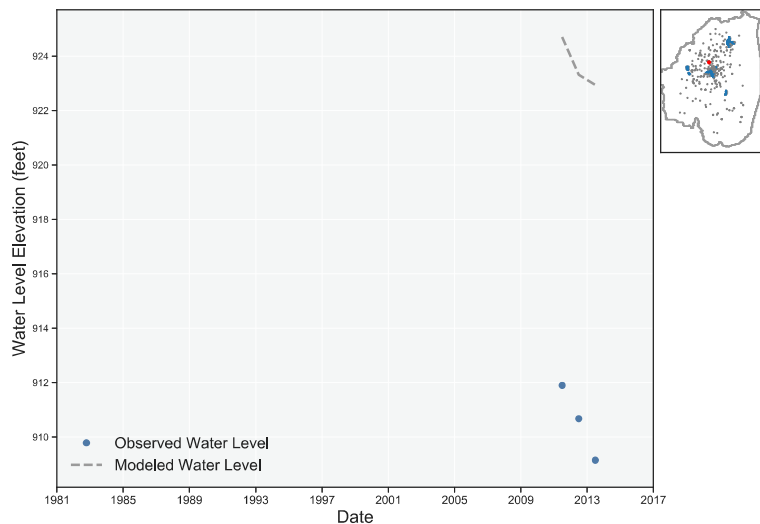
Well 153490 - Aq: OSTP Layers: 5 - 5



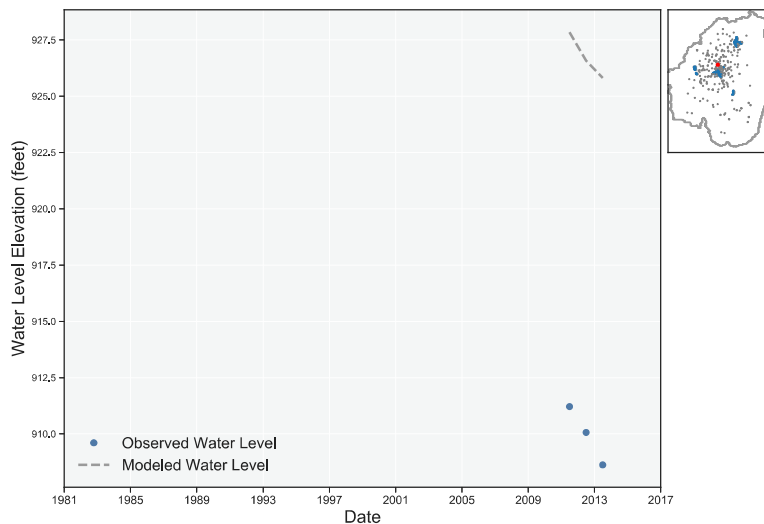
Well 435108 - Aq: OSTP Layers: 5 - 5



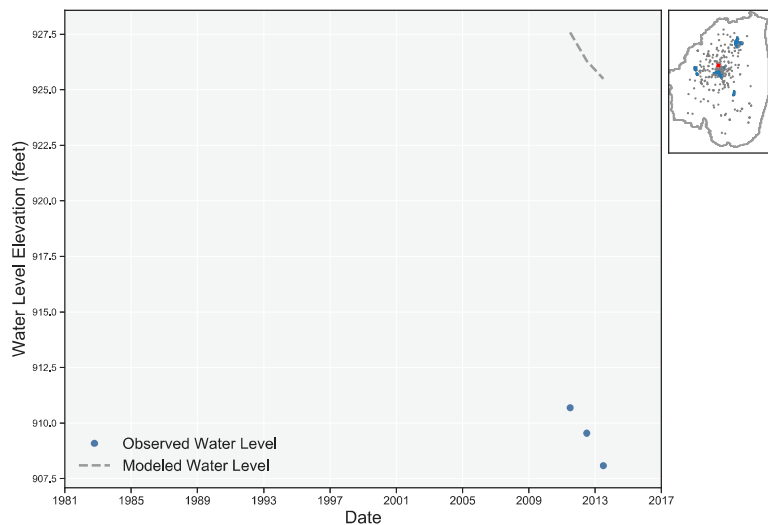
Well 450417 - Aq: OSTP Layers: 5 - 5



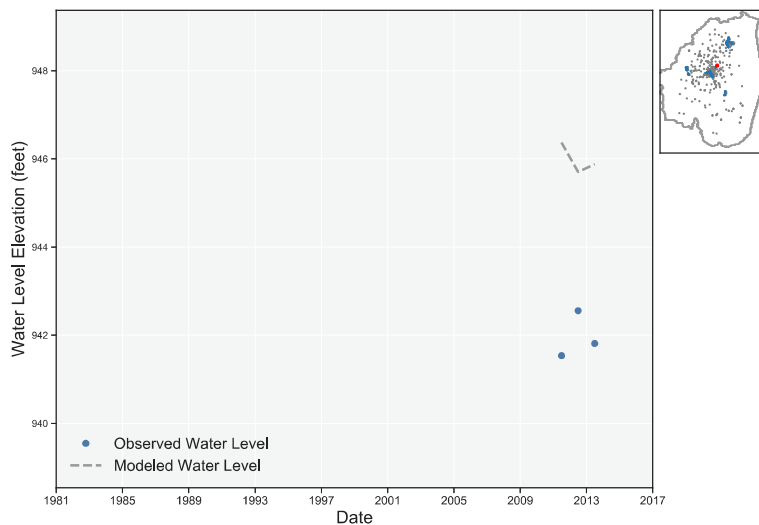
Well 432954 - Aq: QBAA Layers: 5 - 5



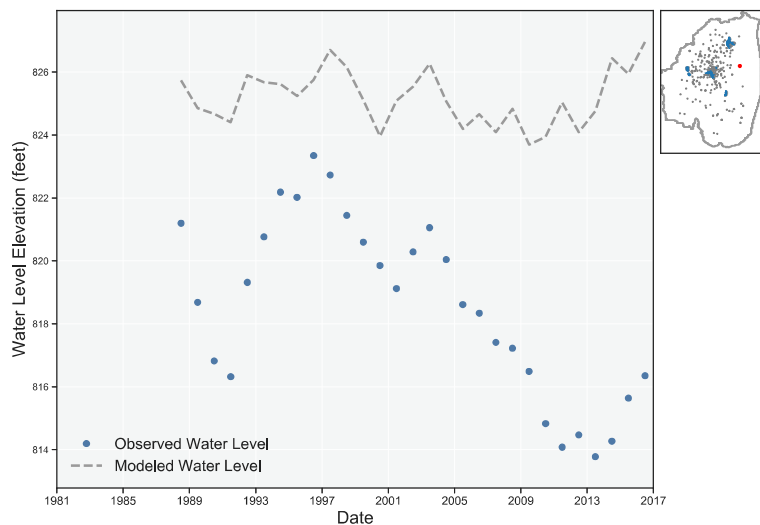
Well 470188 - Aq: QBUA Layers: 5 - 5



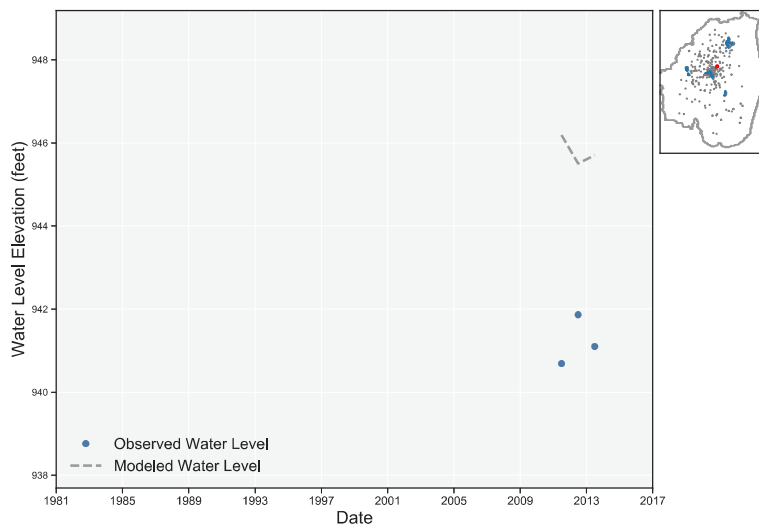
Well 182934 - Aq: OSTP Layers: 5 - 5



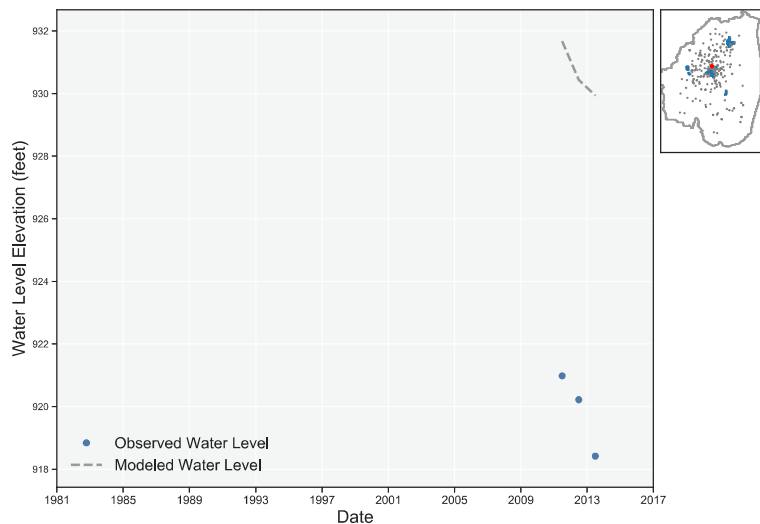
Well 82024 - Aq: QBAA Layers: 5 - 5



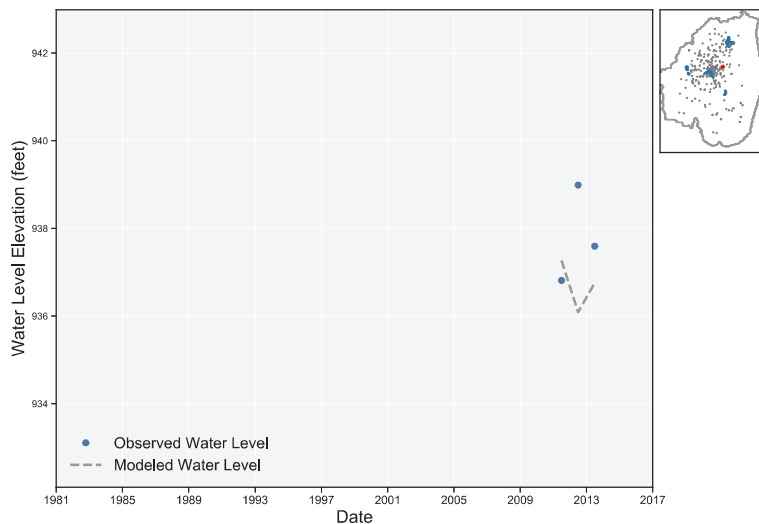
Well 407054 - Aq: OSTP Layers: 5 - 5



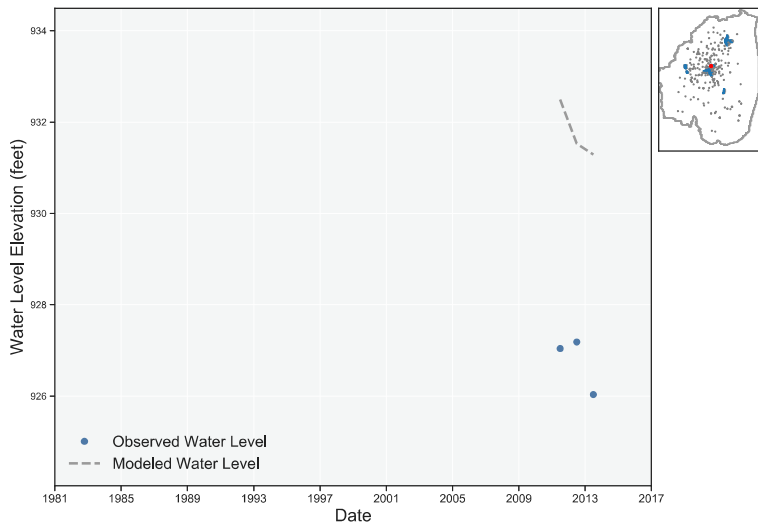
Well 182779 - Aq: MTPL Layers: 5 - 5



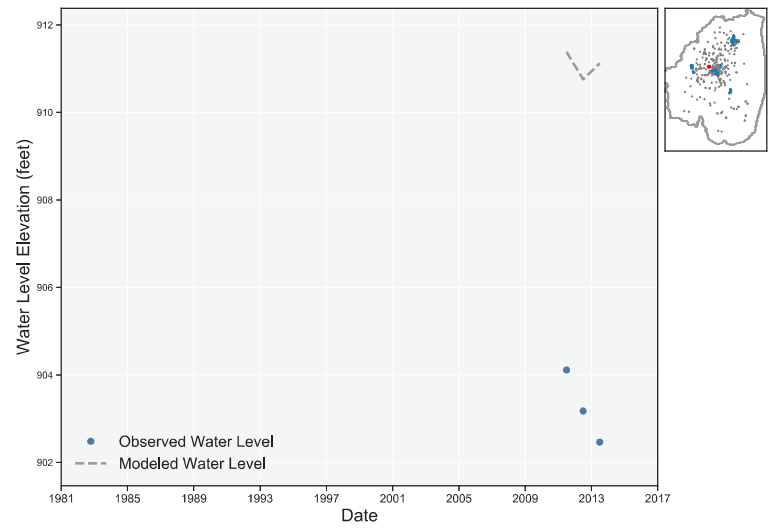
Well 437320 - Aq: OPDC Layers: 5 - 5



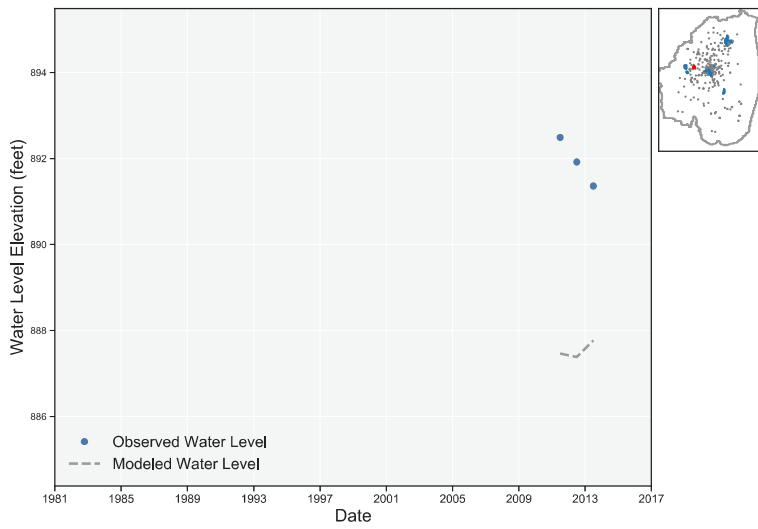
Well 176028 - Aq: OSTP Layers: 5 - 5



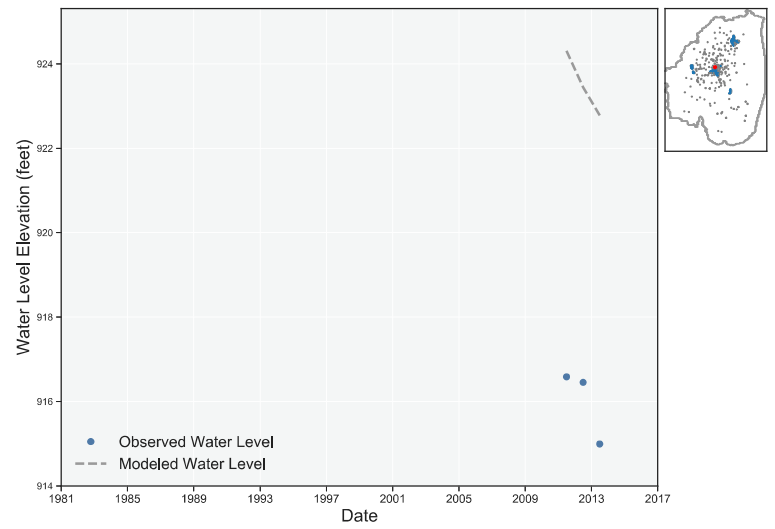
Well 410974 - Aq: OSTP Layers: 5 - 5



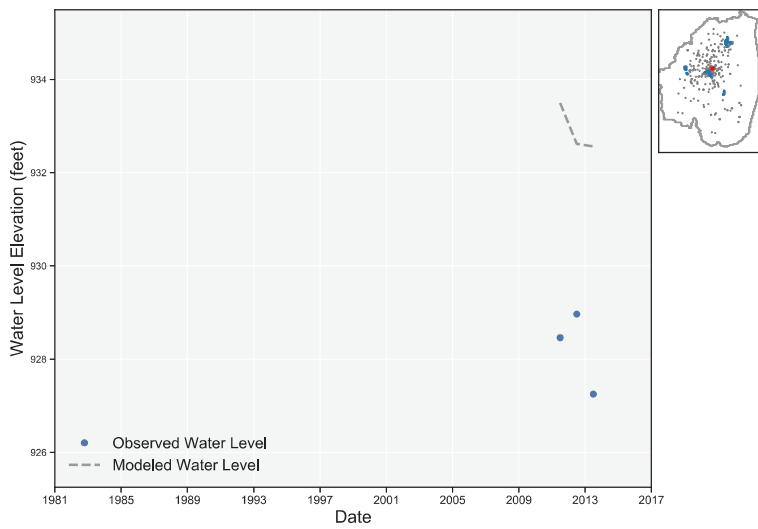
Well 205706 - Aq: OSTP Layers: 5 - 5



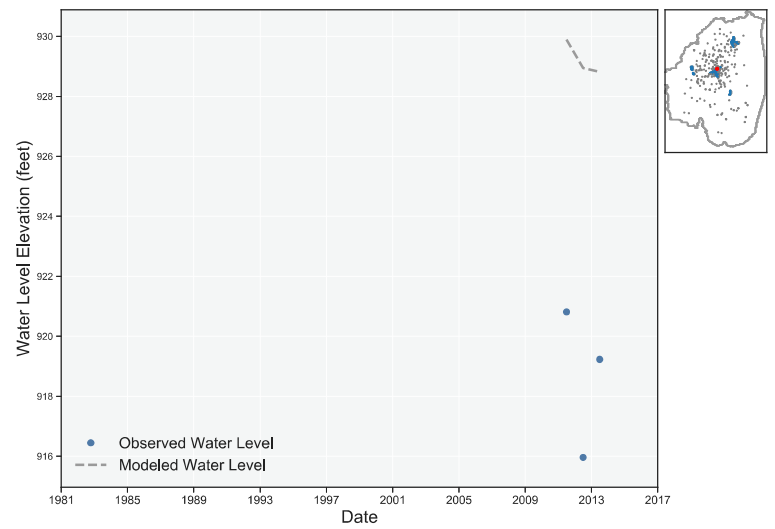
Well 130874 - Aq: OSTP Layers: 5 - 5



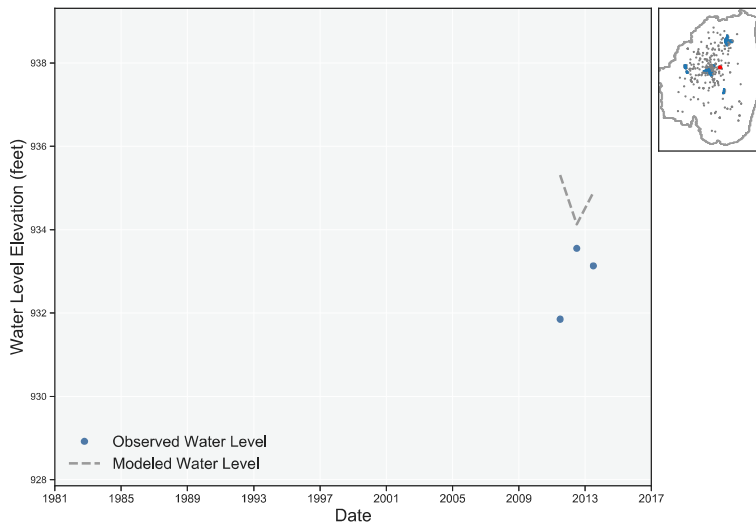
Well 208479 - Aq: QBAA Layers: 5 - 5



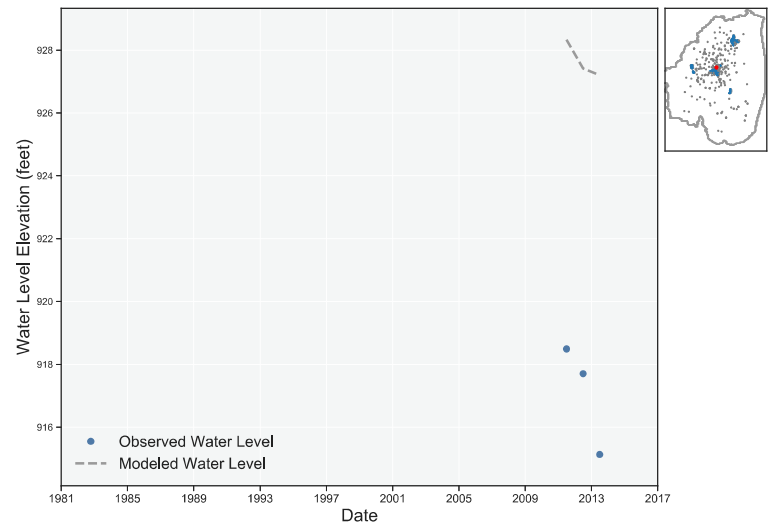
Well 178281 - Aq: OSTP Layers: 5 - 5



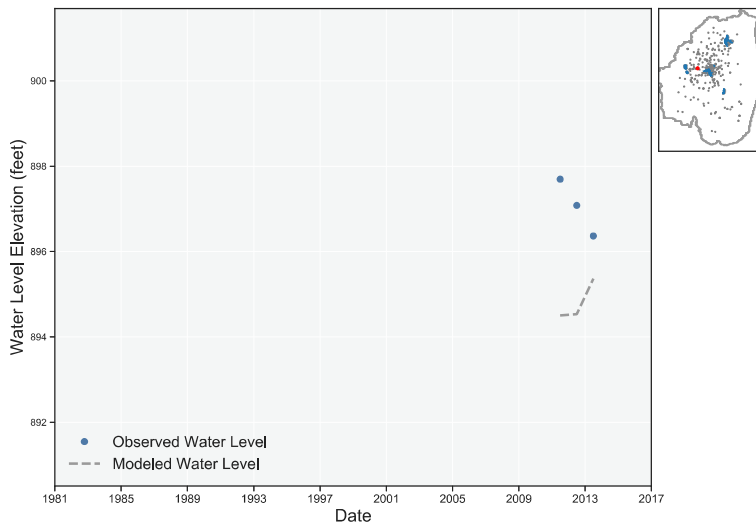
Well 163703 - Aq: OSTP Layers: 5 - 5



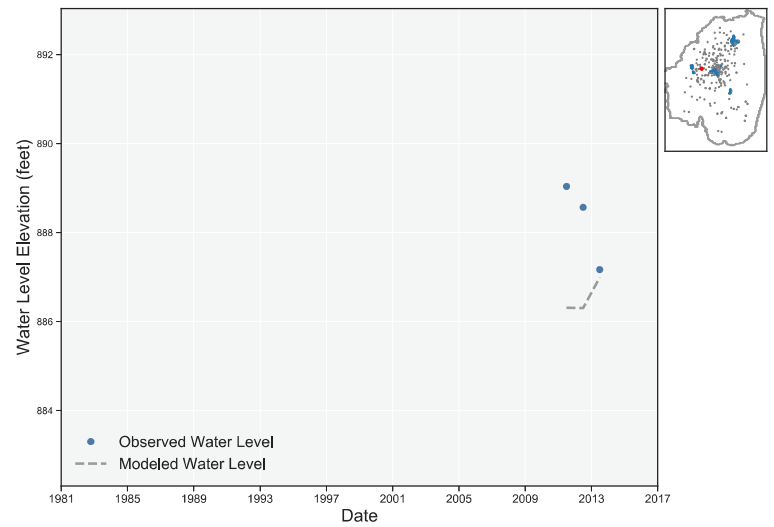
Well 130885 - Aq: OSTP Layers: 5 - 5



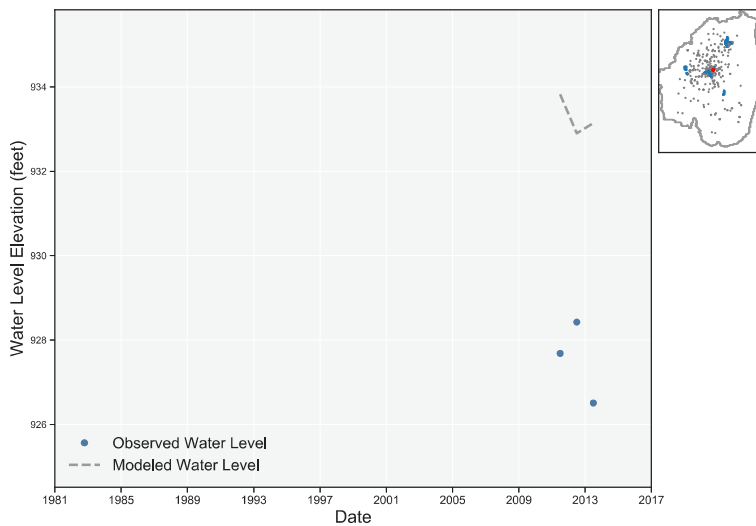
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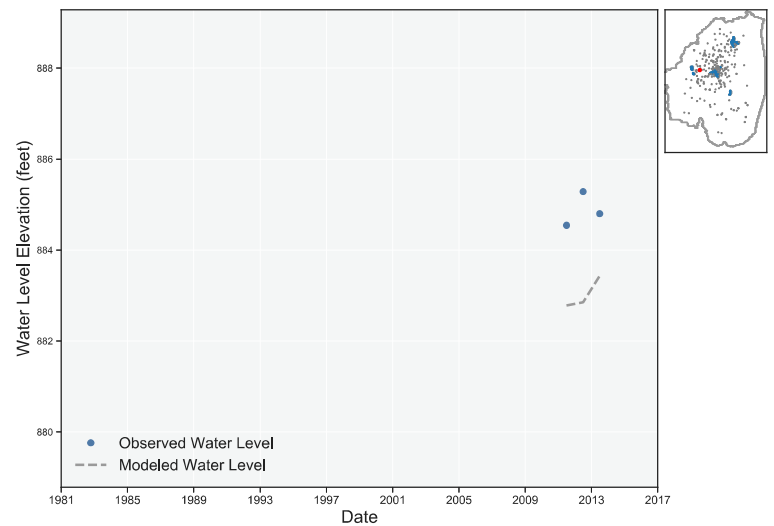
Well 205720 - Aq: OSTP Layers: 5 - 5



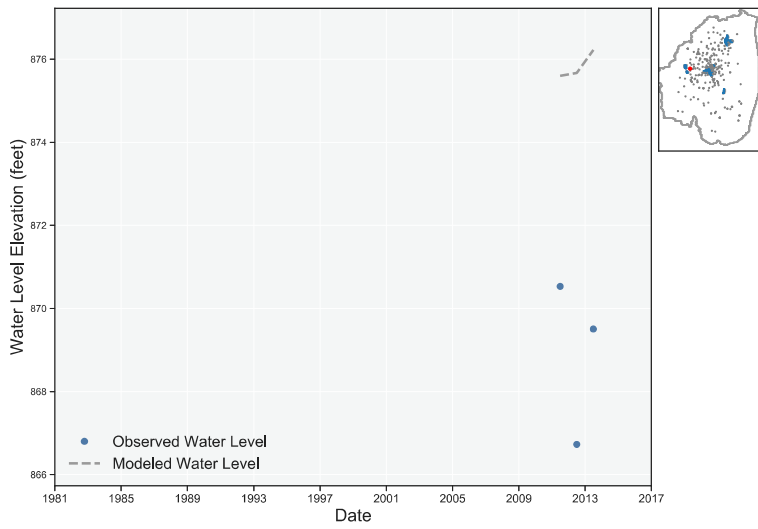
Well 112480 - Aq: OSTP Layers: 5 - 5



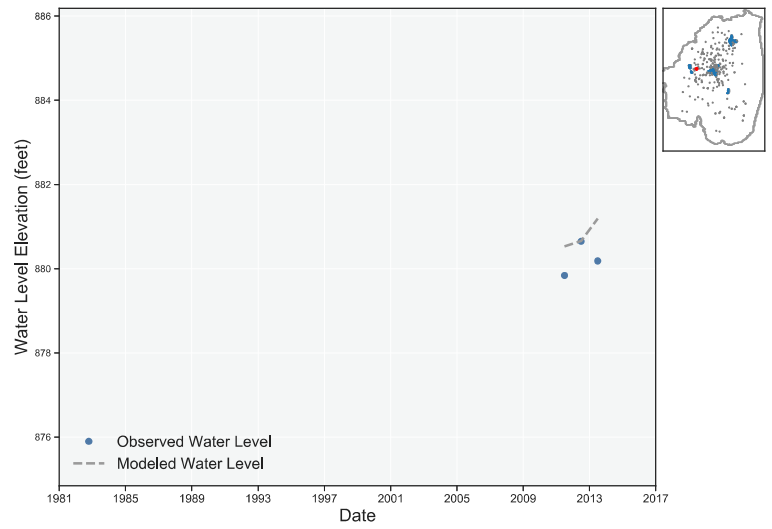
Well 430525 - Aq: OSTP Layers: 5 - 5



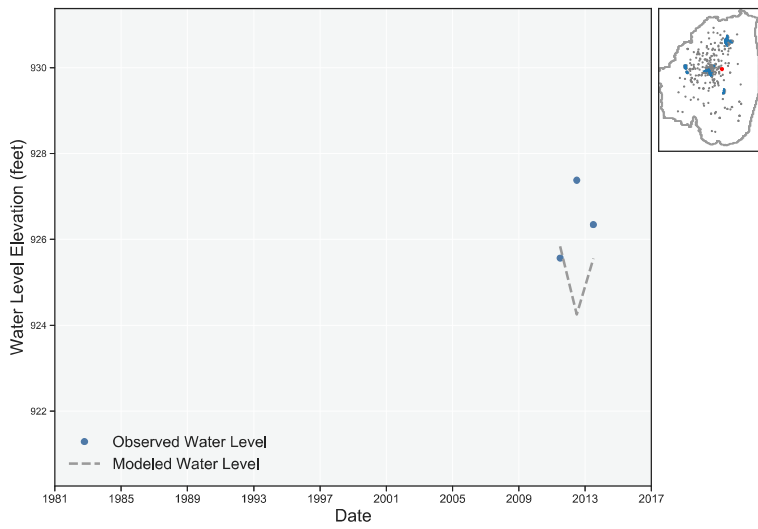
Well 405703 - Aq: OSTP Layers: 5 - 5



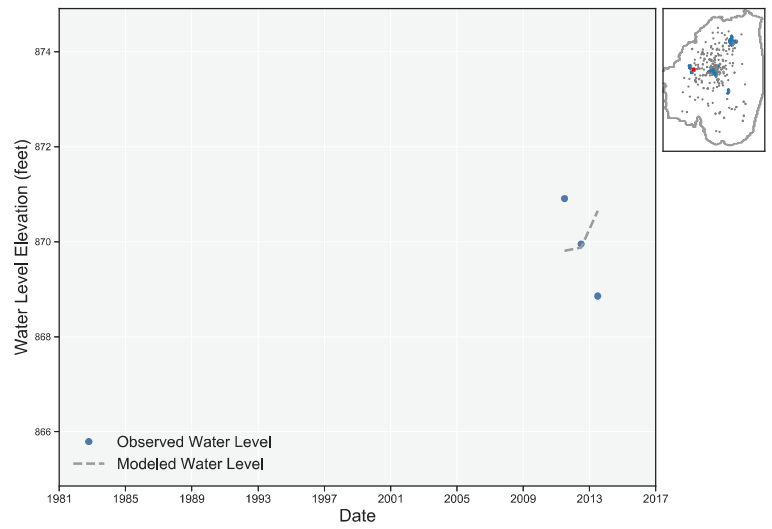
Well 504153 - Aq: OSTP Layers: 5 - 5



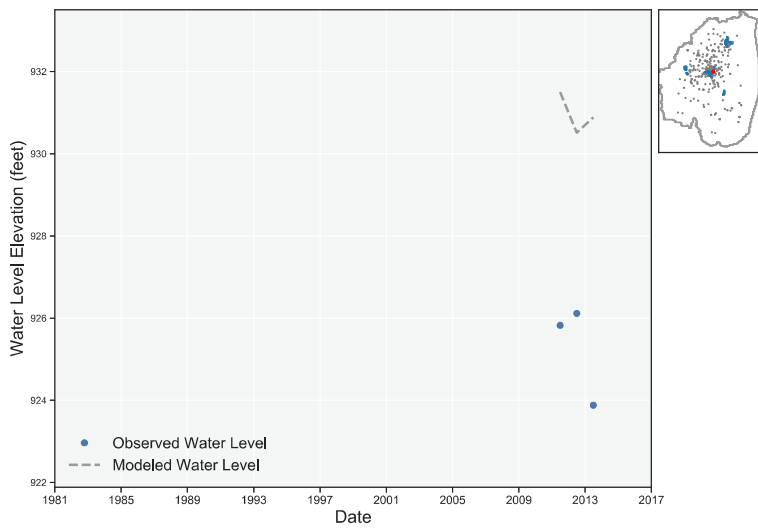
Well 136141 - Aq: OSTP Layers: 5 - 5



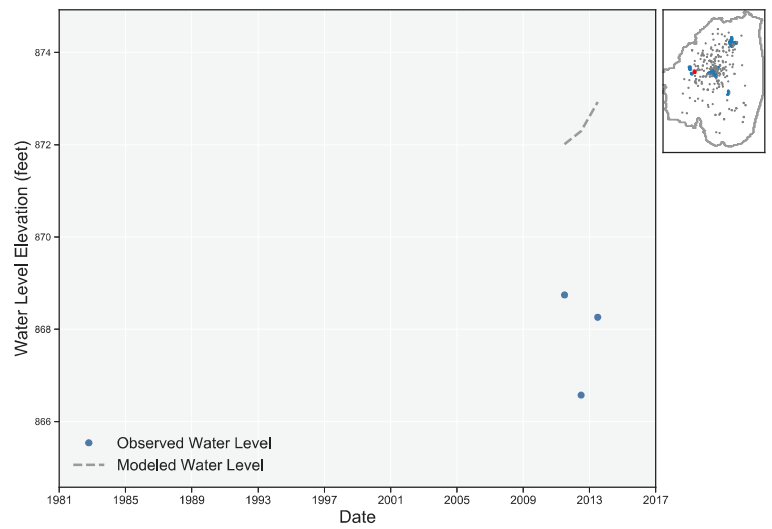
Well 436585 - Aq: QBAA Layers: 5 - 5



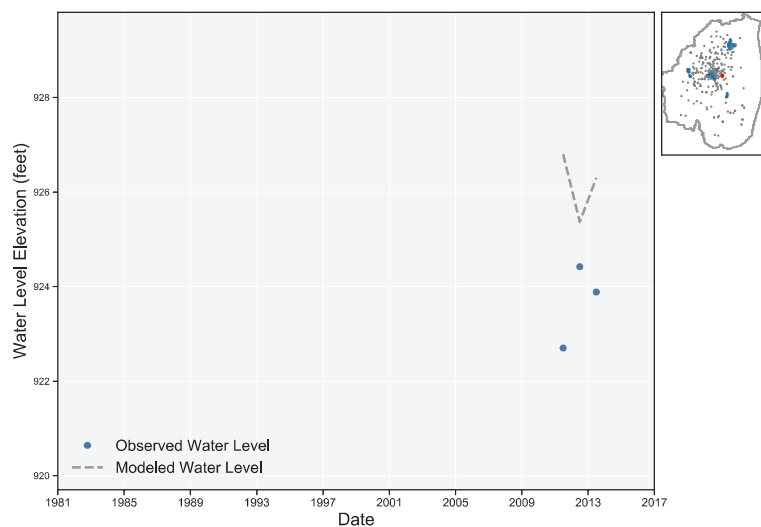
Well 112342 - Aq: OSTP Layers: 5 - 5



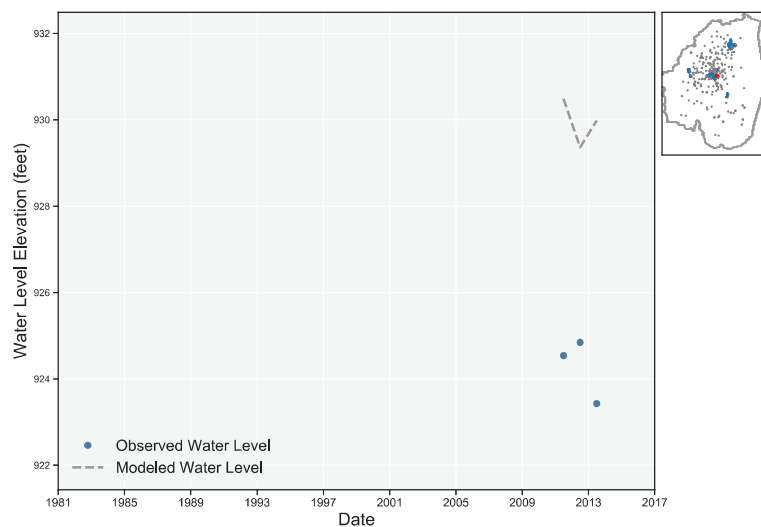
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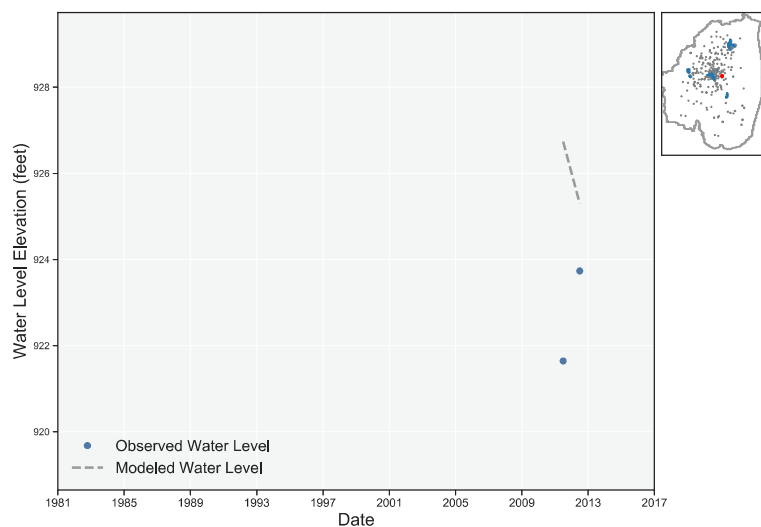
Well 505390 - Aq: OPDC Layers: 5 - 5



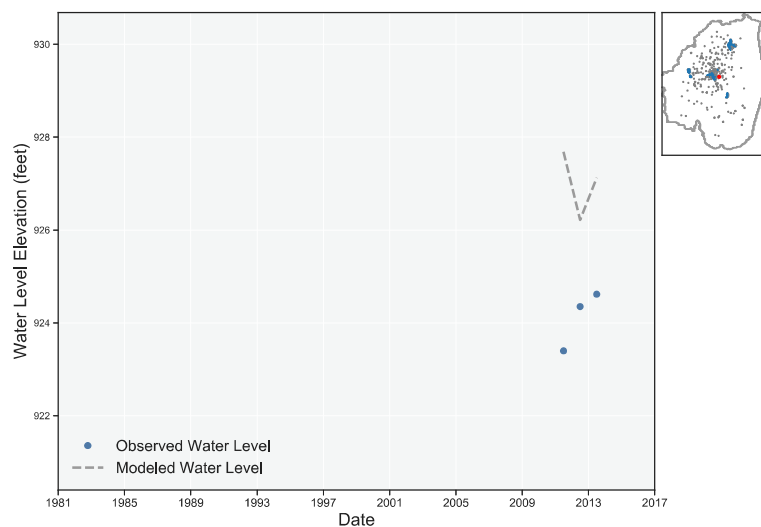
Well 153493 - Aq: OSTP Layers: 5 - 5



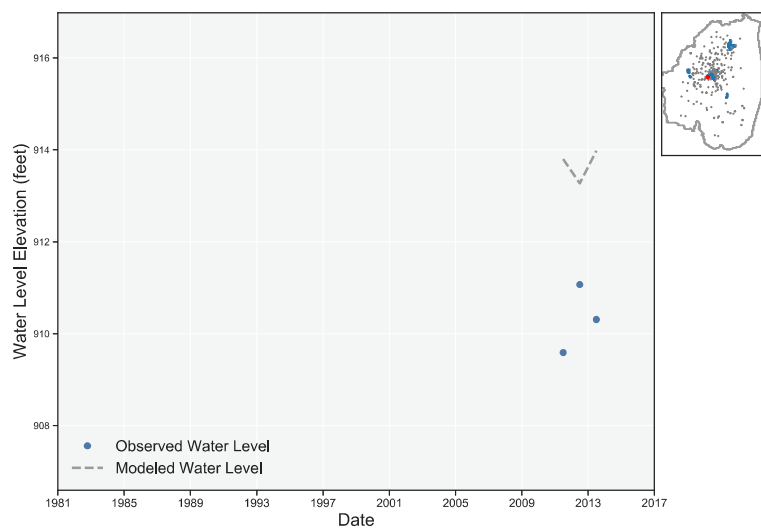
Well 413586 - Aq: OSTP Layers: 5 - 5



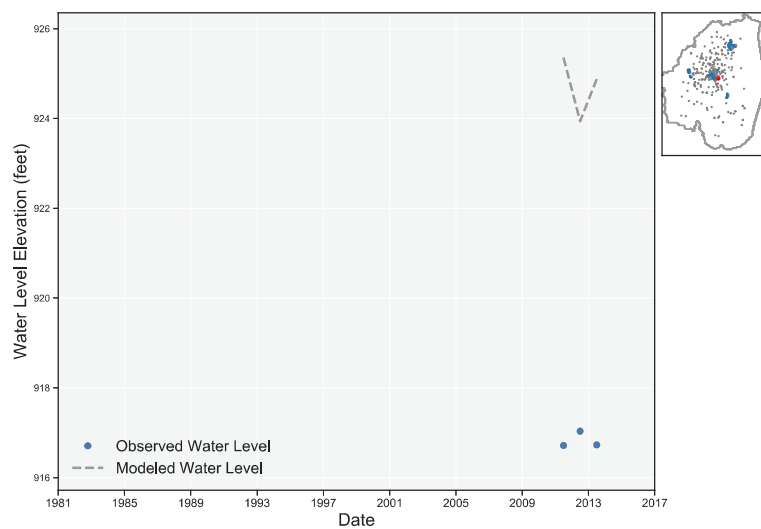
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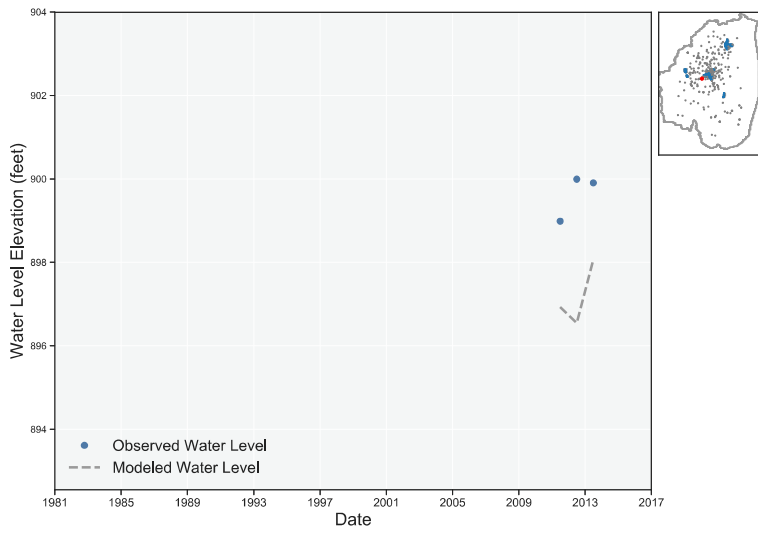
Well 504197 - Aq: OSTP Layers: 5 - 5



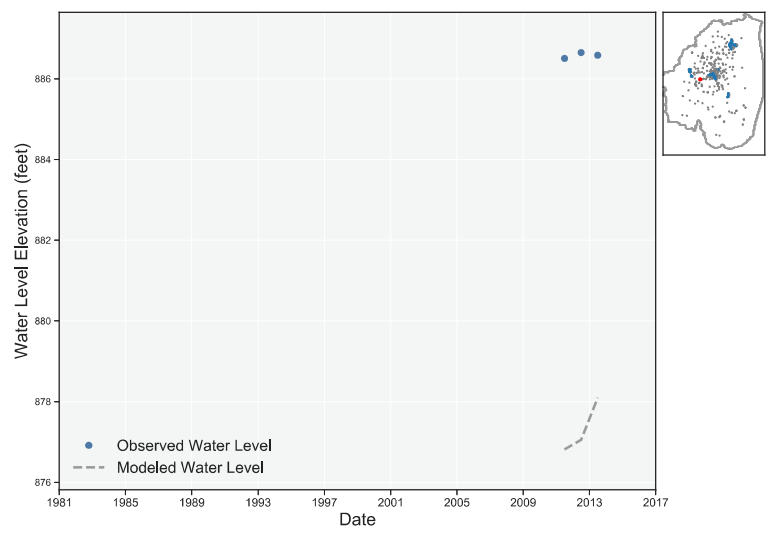
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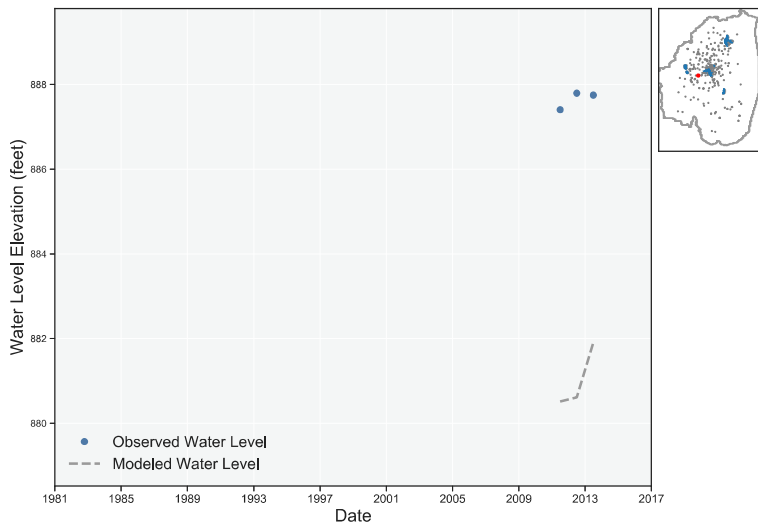
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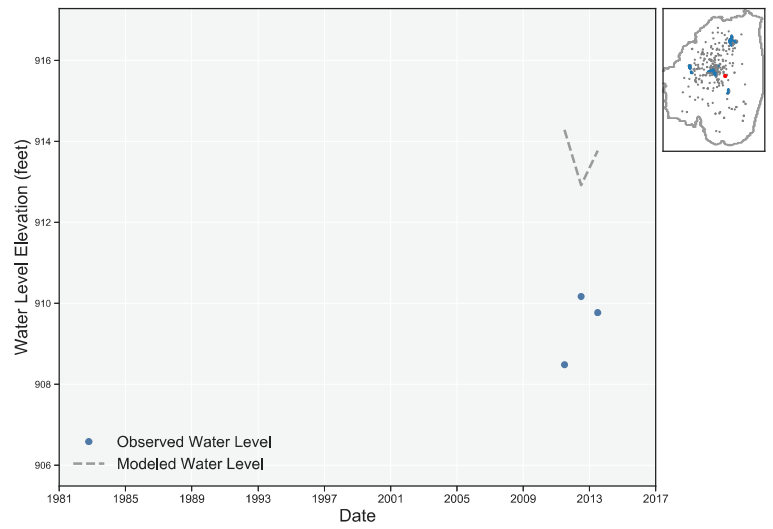
Well 145732 - Aq: OSTP Layers: 5 - 5



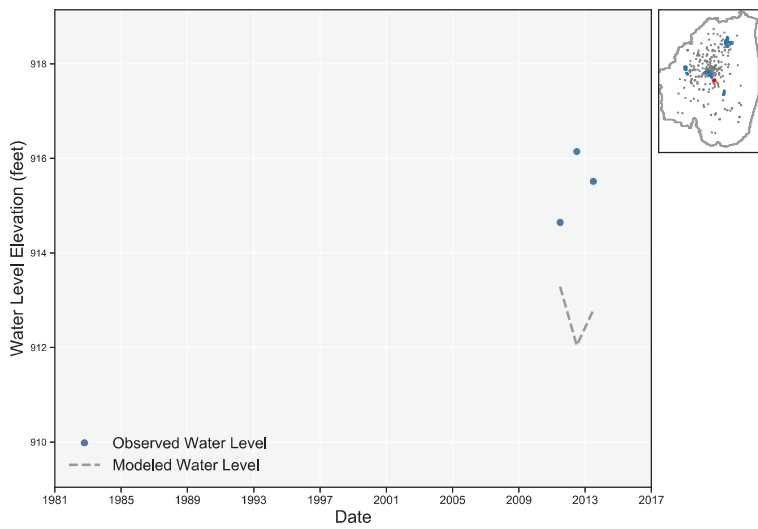
Well 448228 - Aq: QBAA Layers: 5 - 5



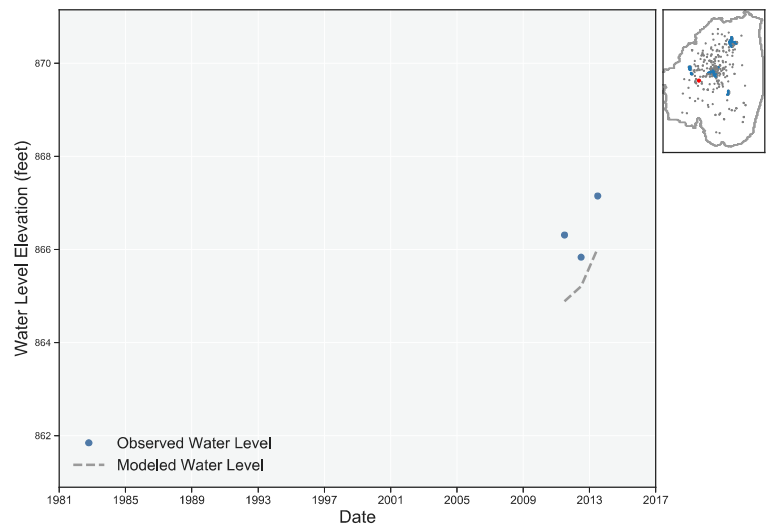
Well 130876 - Aq: OSTP Layers: 5 - 5



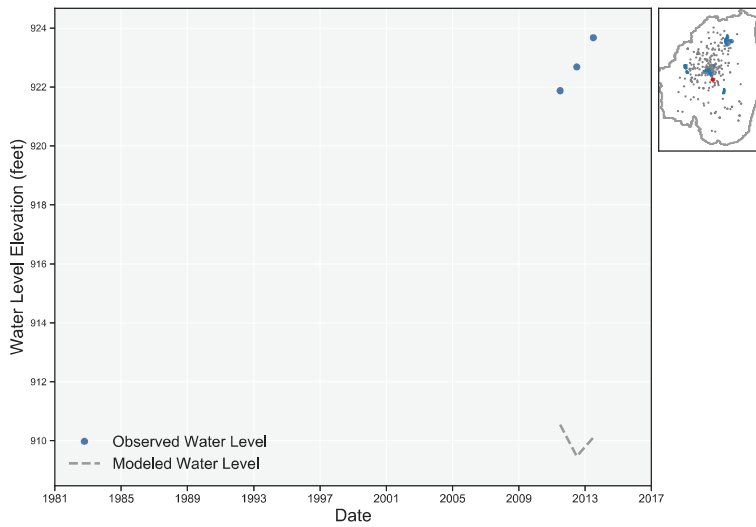
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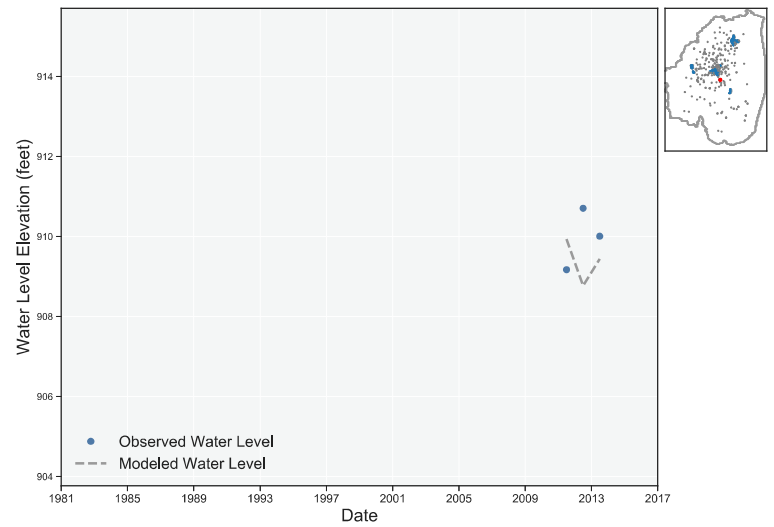
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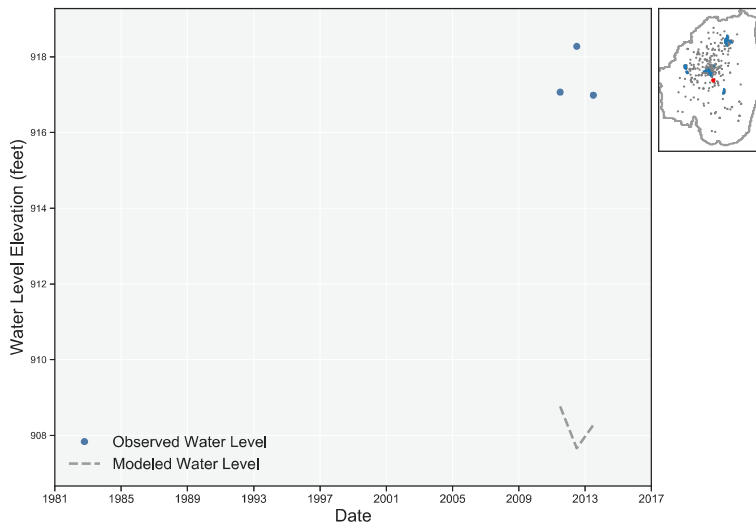
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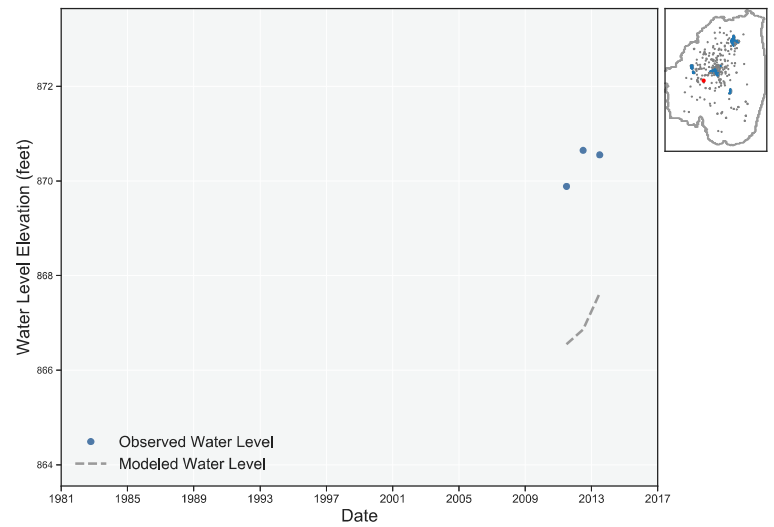
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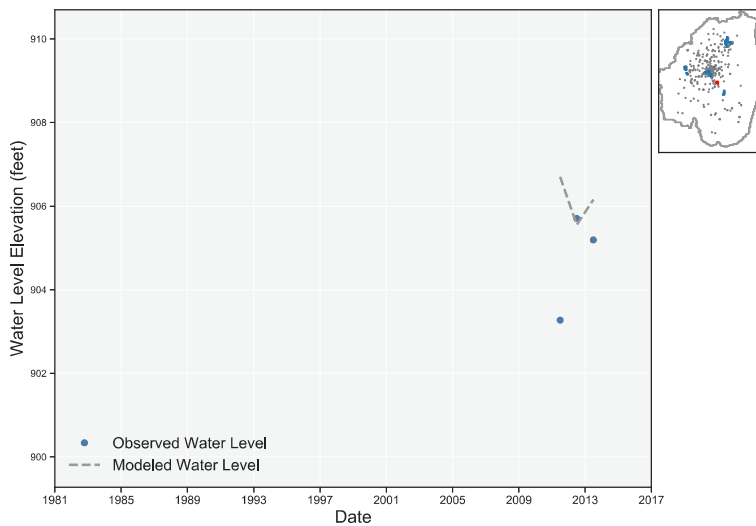
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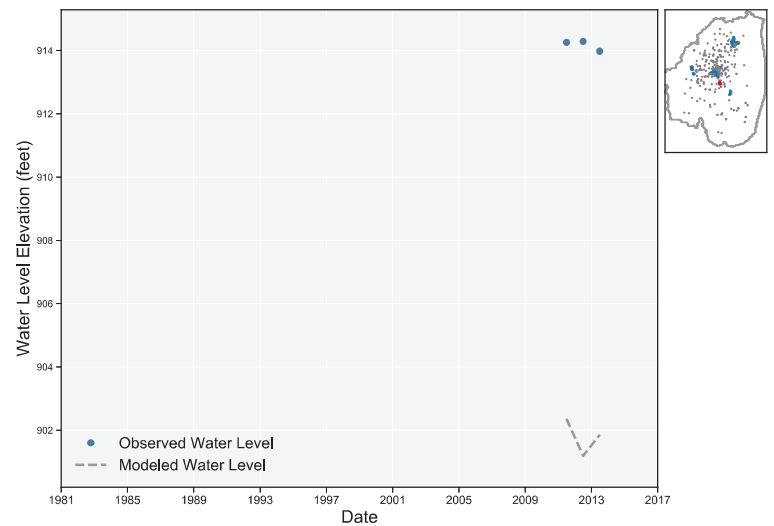
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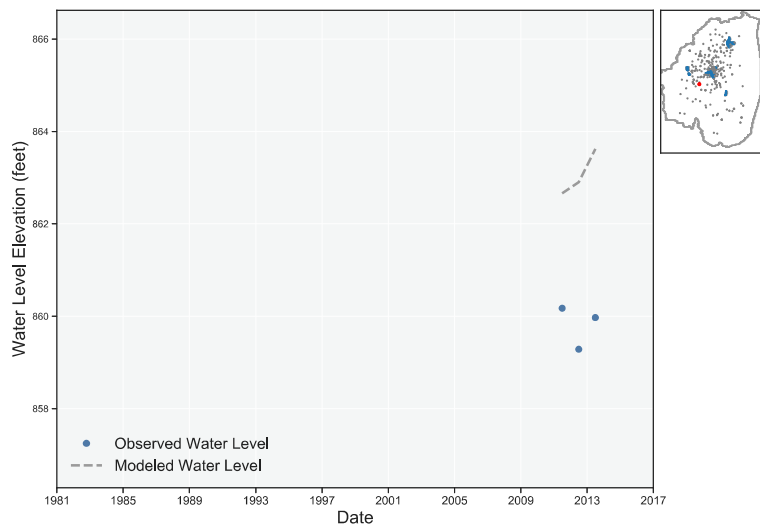
Well 410169 - Aq: OSTP Layers: 5 - 5



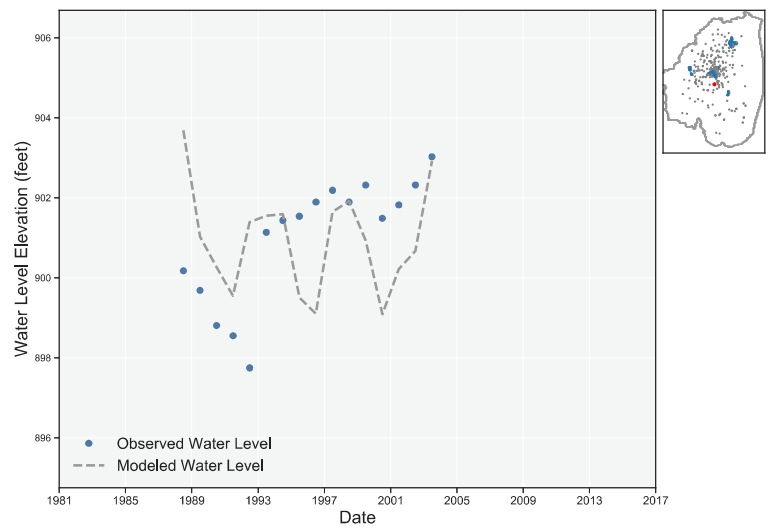
Well 153486 - Aq: QBAA Layers: 5 - 5



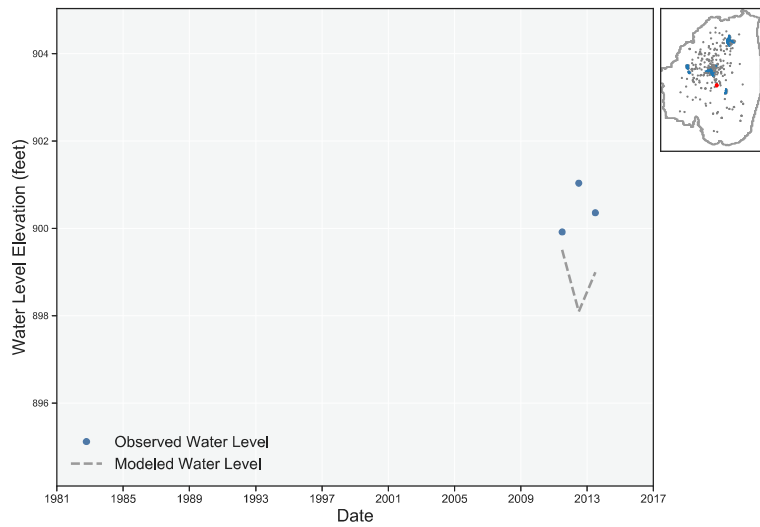
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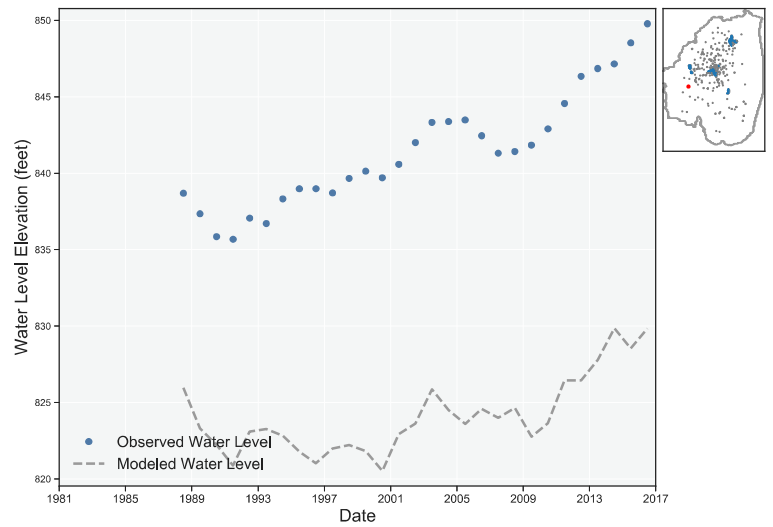
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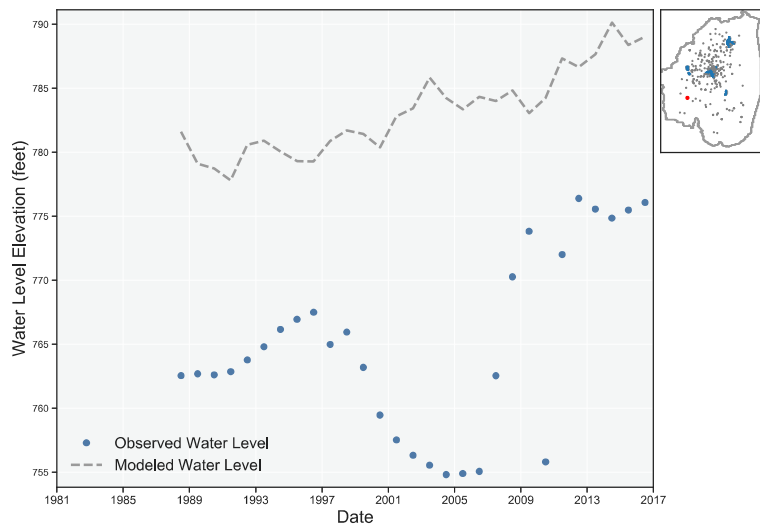
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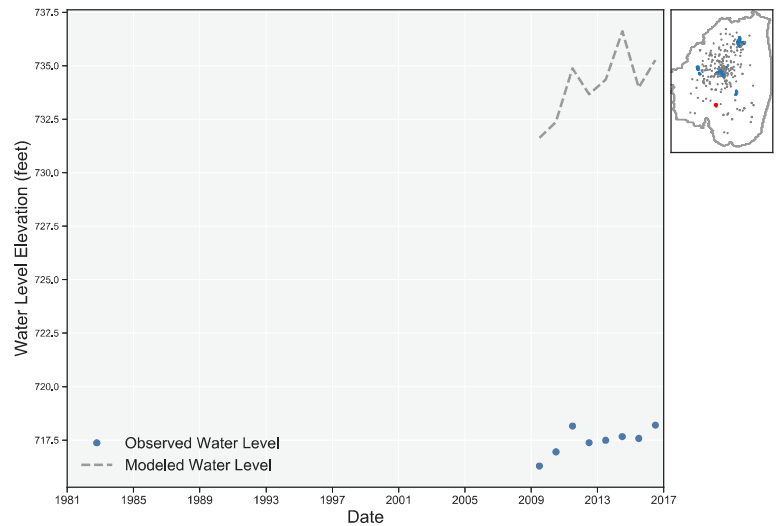
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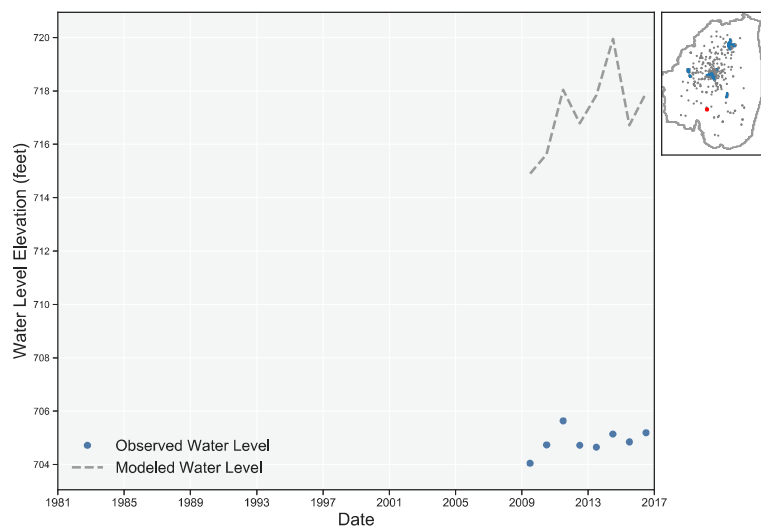
Well 62034 - Aq: OSTP Layers: 5 - 5



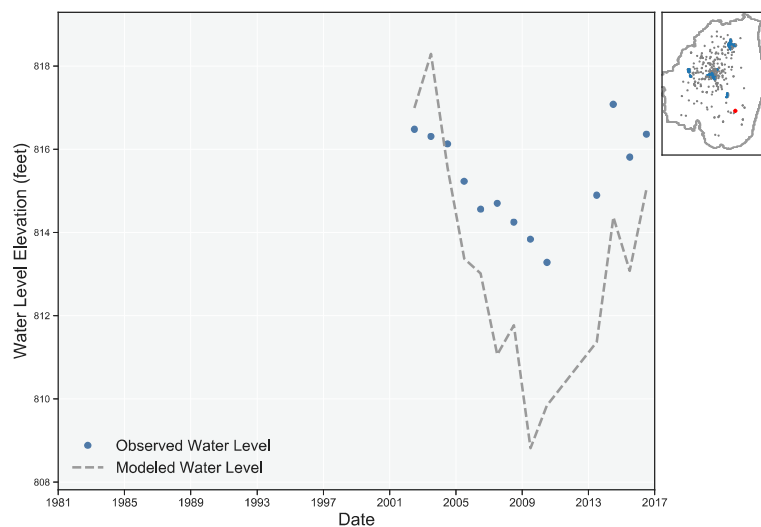
Well 62050 - Aq: OSTP Layers: 5 - 5



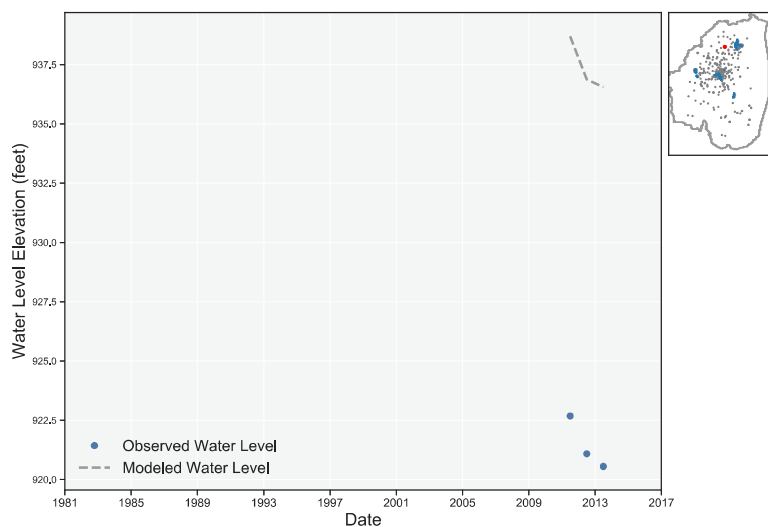
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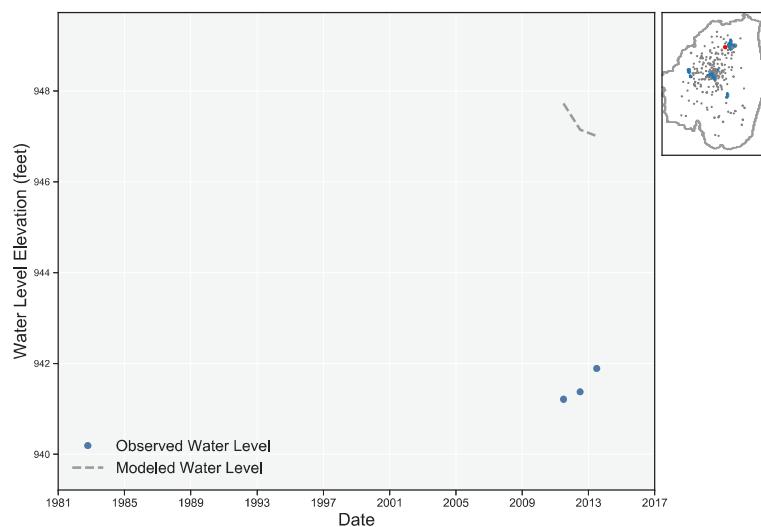
Well 675586 - Aq: QWTA Layers: 5 - 5



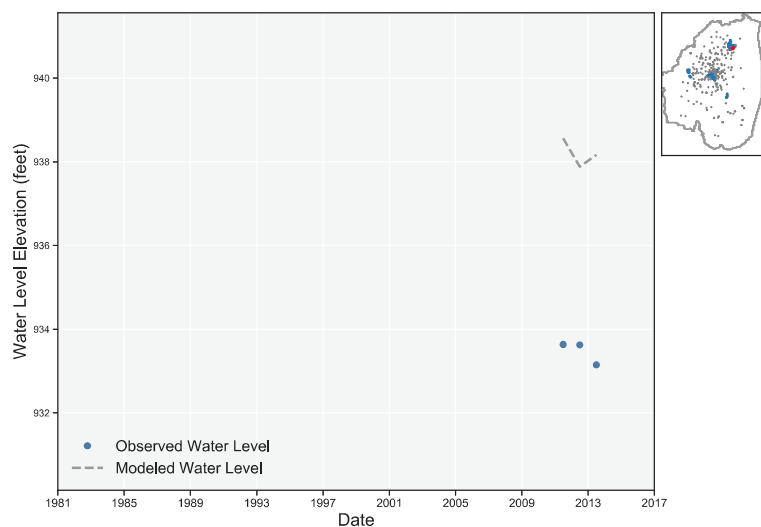
Well 419114 - Aq: OPDC Layers: 6 - 6



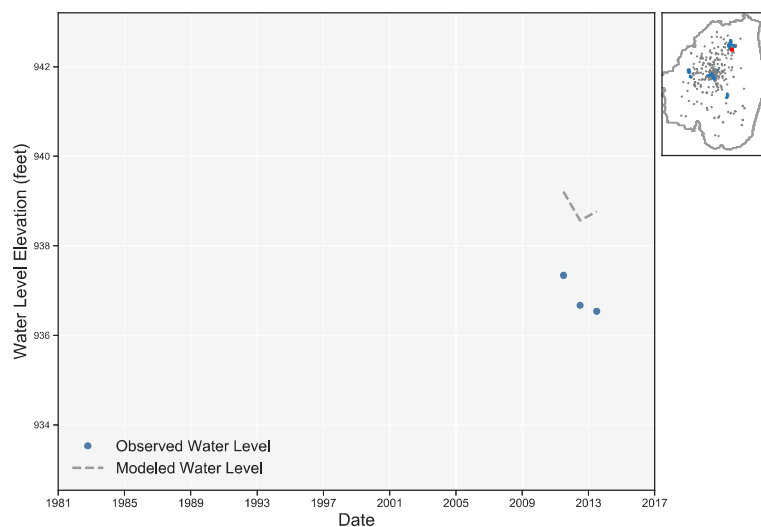
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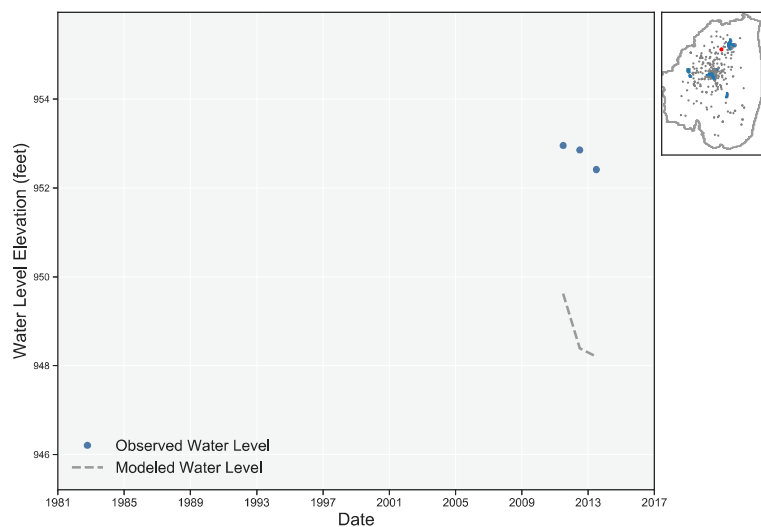
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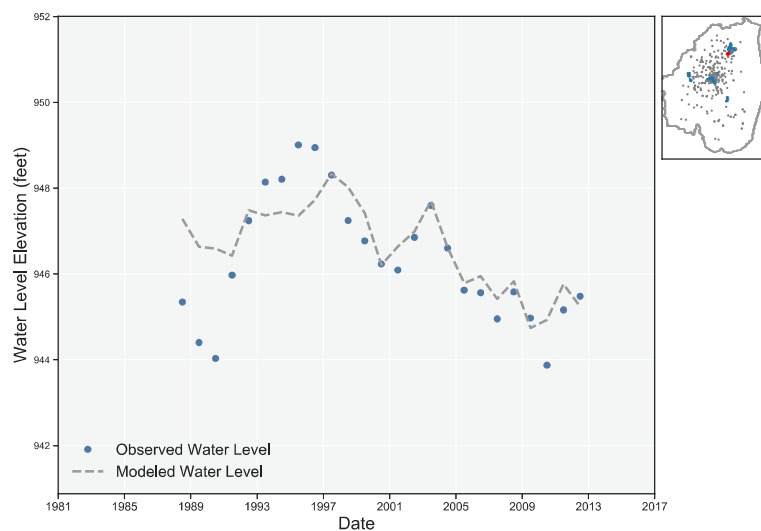
Well 435109 - Aq: OPDC Layers: 6 - 6



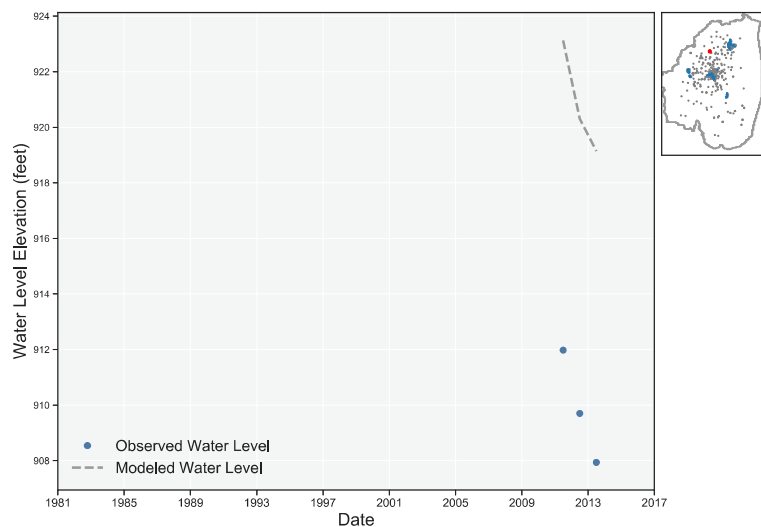
Well 450385 - Aq: OPDC Layers: 6 - 6



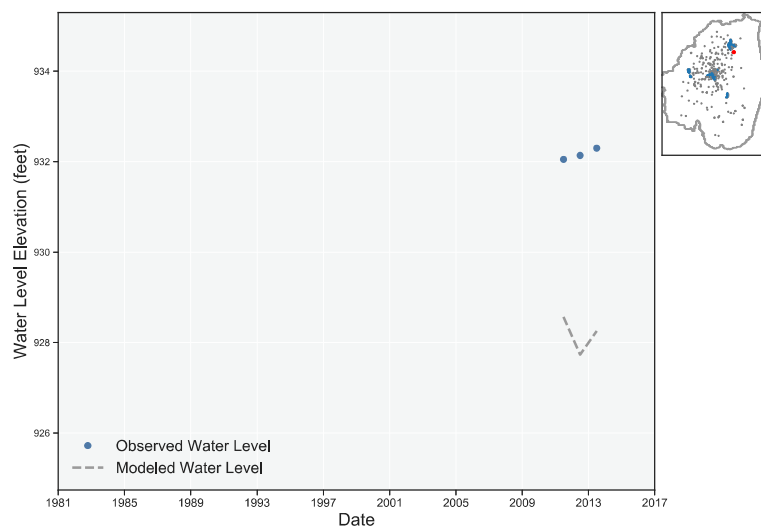
Well 82035 - Aq: OPDC Layers: 6 - 6



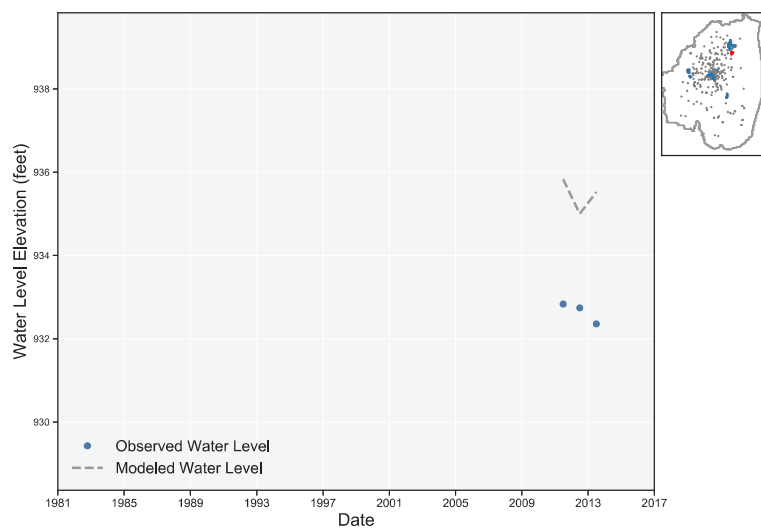
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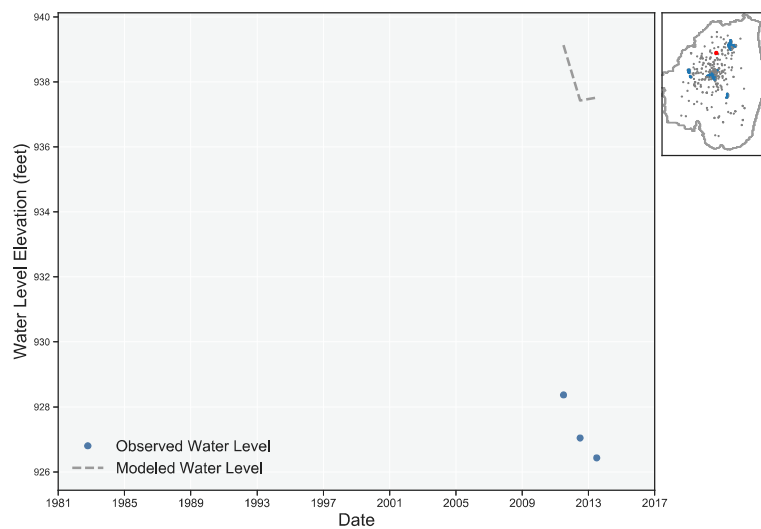
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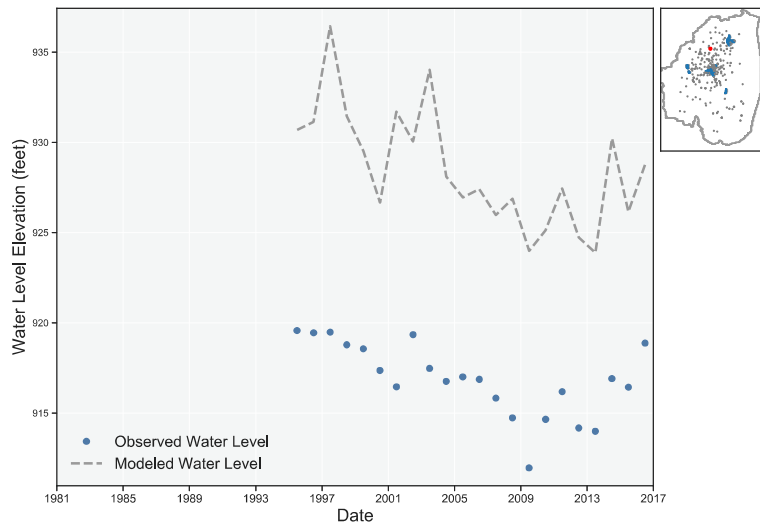
Well 422349 - Aq: OPDC Layers: 6 - 6



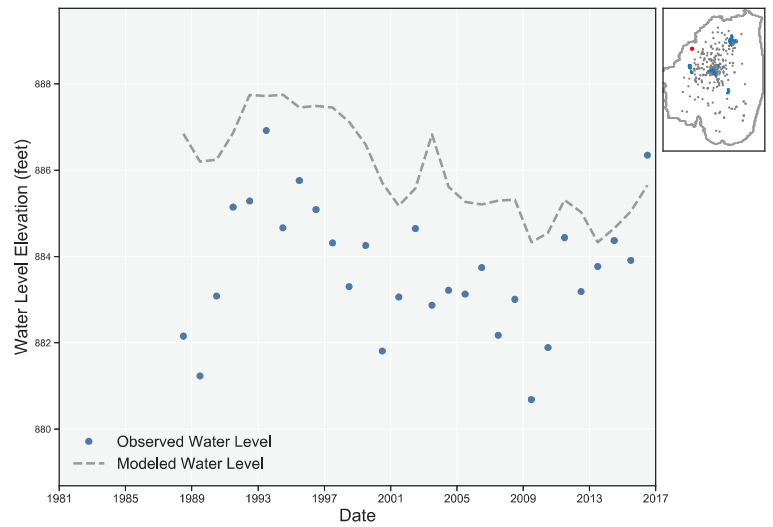
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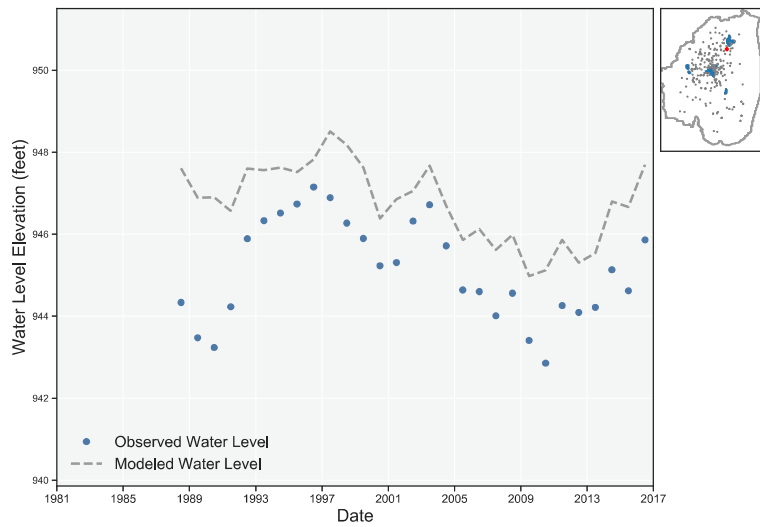
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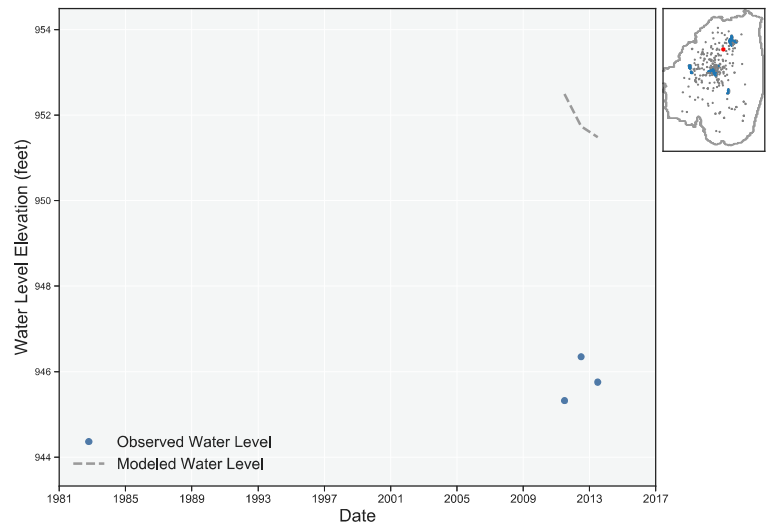
Well 2009 - Aq: QBAA Layers: 6 - 6



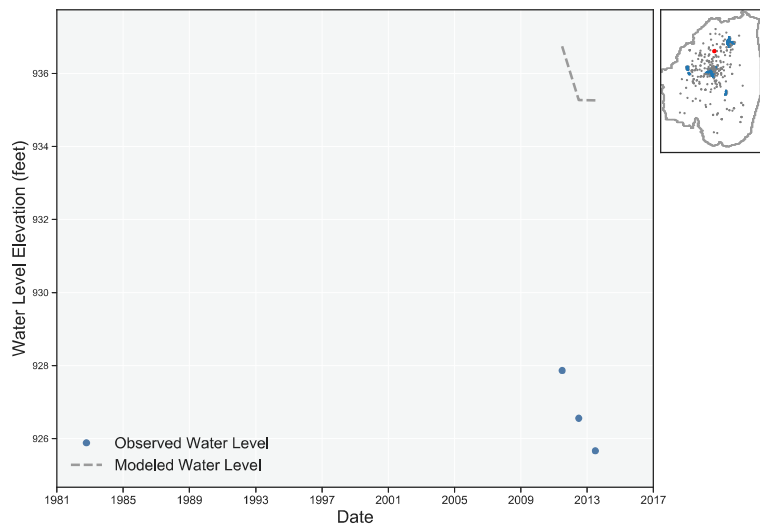
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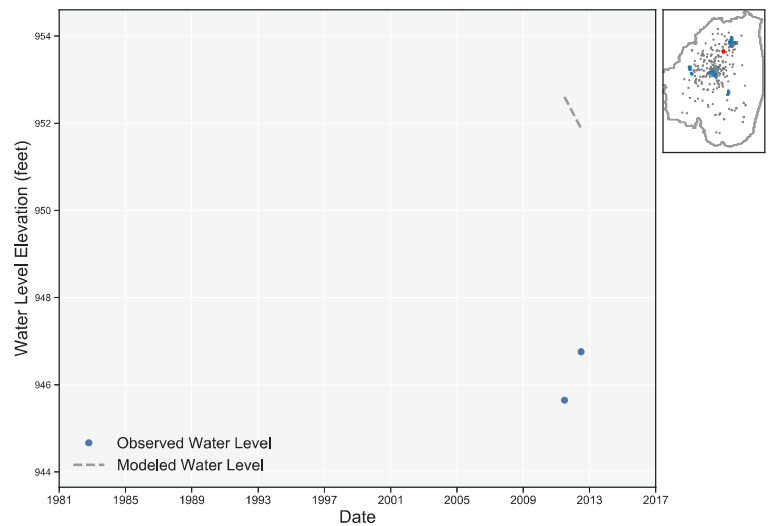
Well 196935 - Aq: OPDC Layers: 6 - 6



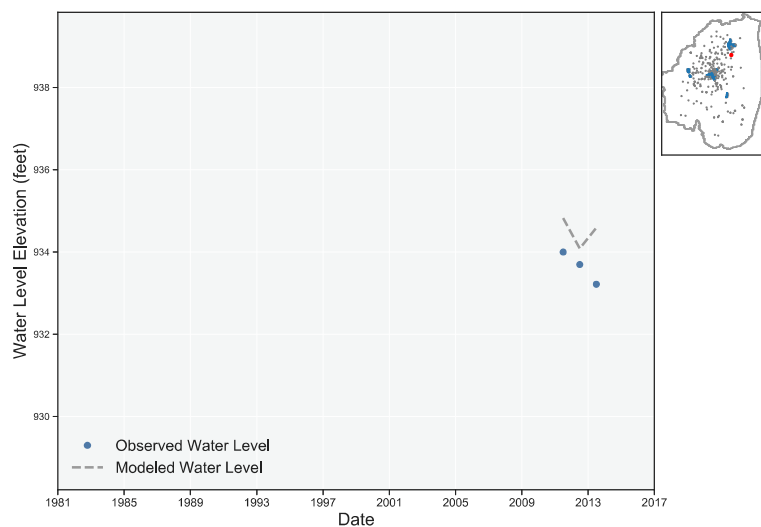
Well 110526 - Aq: OPDC Layers: 6 - 6



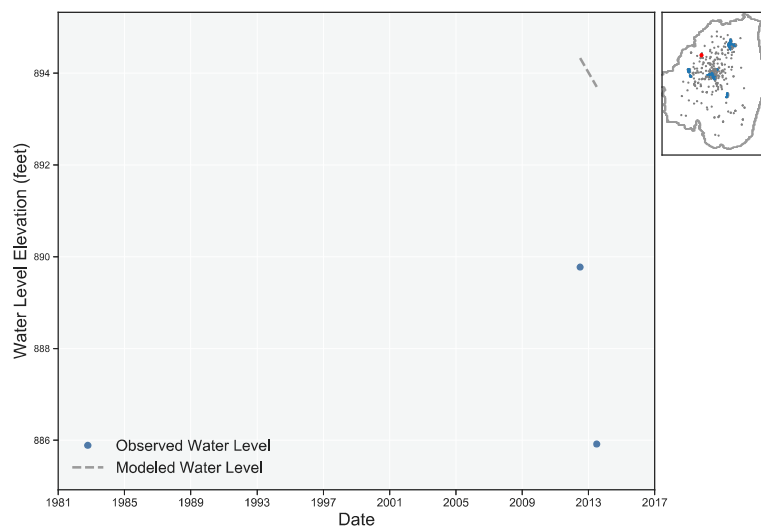
Well 418593 - Aq: OPDC Layers: 6 - 6



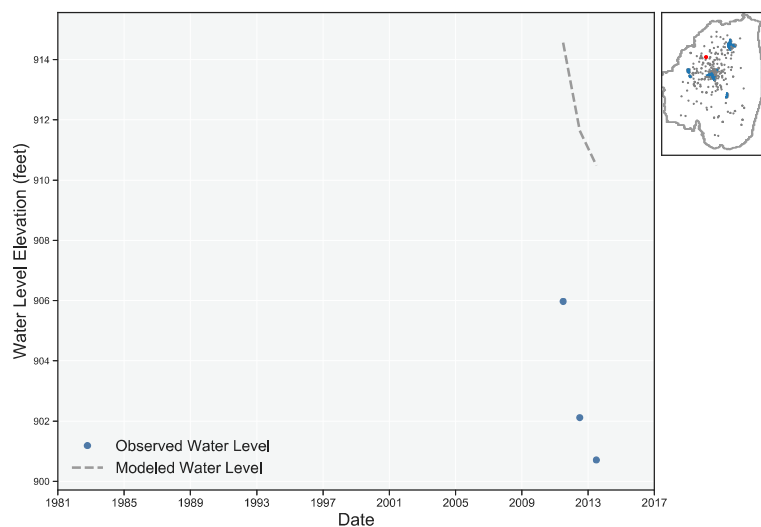
Well 430399 - Aq: OPDC Layers: 6 - 6



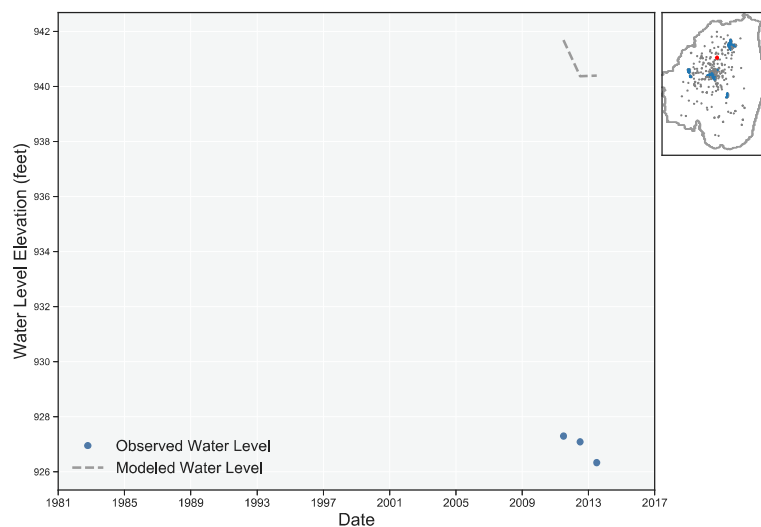
Well 188272 - Aq: OPDC Layers: 6 - 6



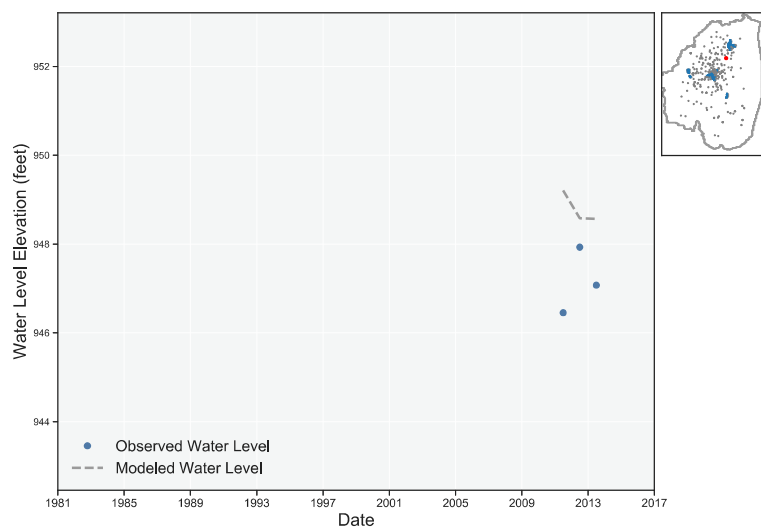
Well 524745 - Aq: OPDC Layers: 6 - 6



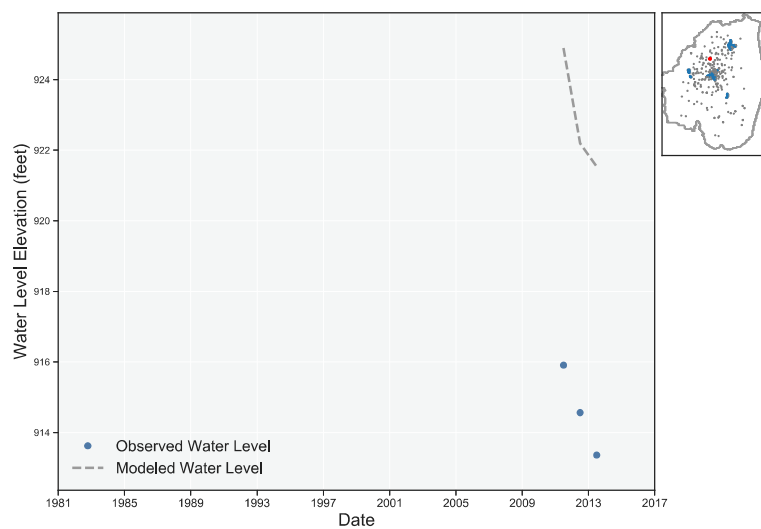
Well 558224 - Aq: OPDC Layers: 6 - 6



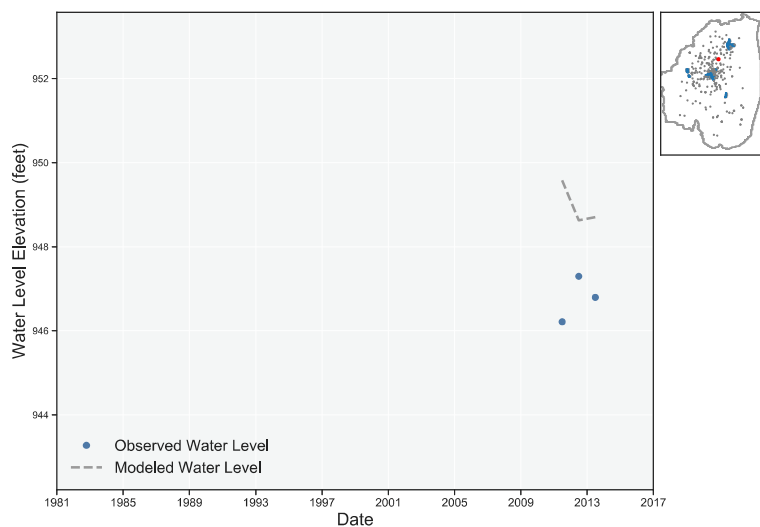
Well 420630 - Aq: OPDC Layers: 6 - 6



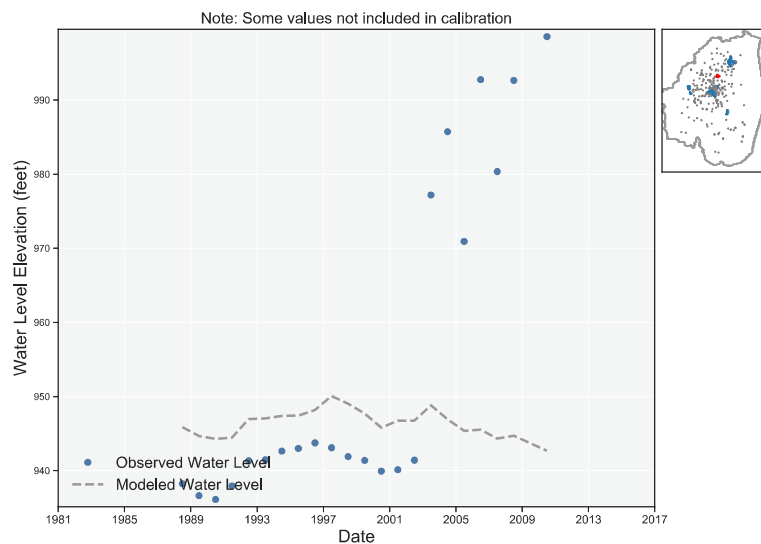
Well 427681 - Aq: OPDC Layers: 6 - 6



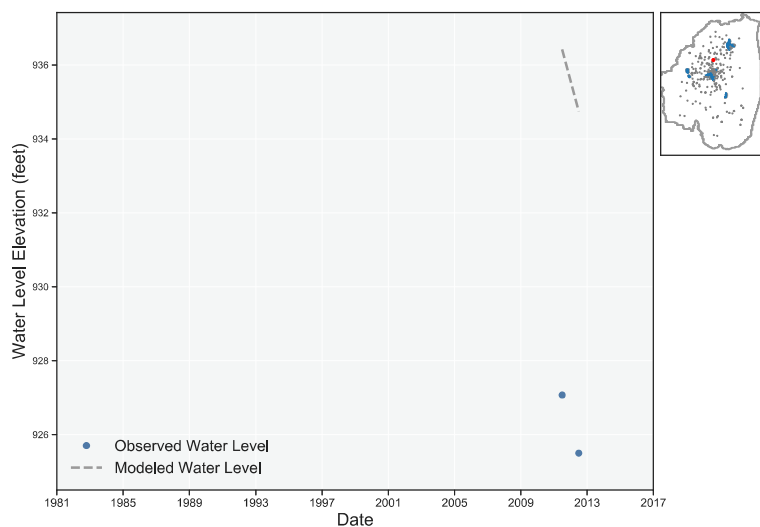
Well 430550 - Aq: OPDC Layers: 6 - 6



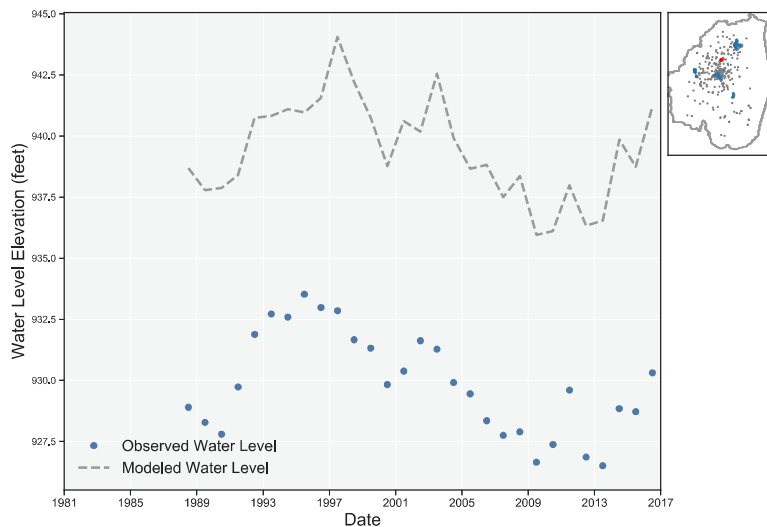
Well 82032 - Aq: OPDC Layers: 6 - 6



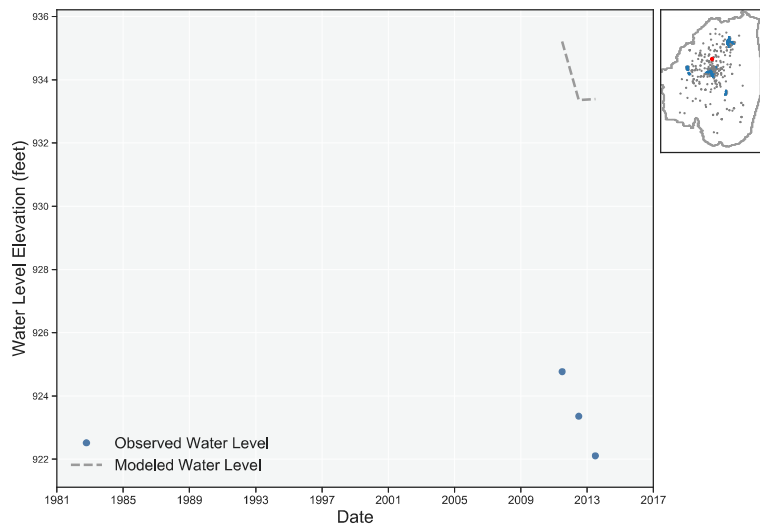
Well 713255 - Aq: OPDC Layers: 6 - 6



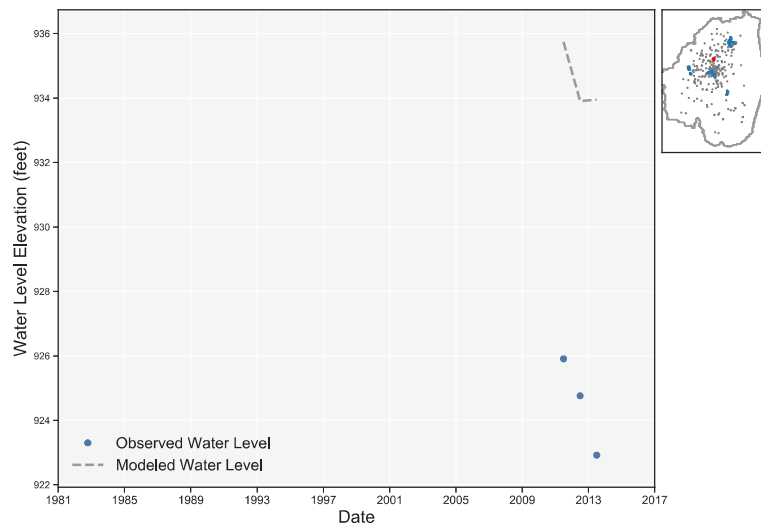
Well 82029 - Aq: OPDC Layers: 6 - 6



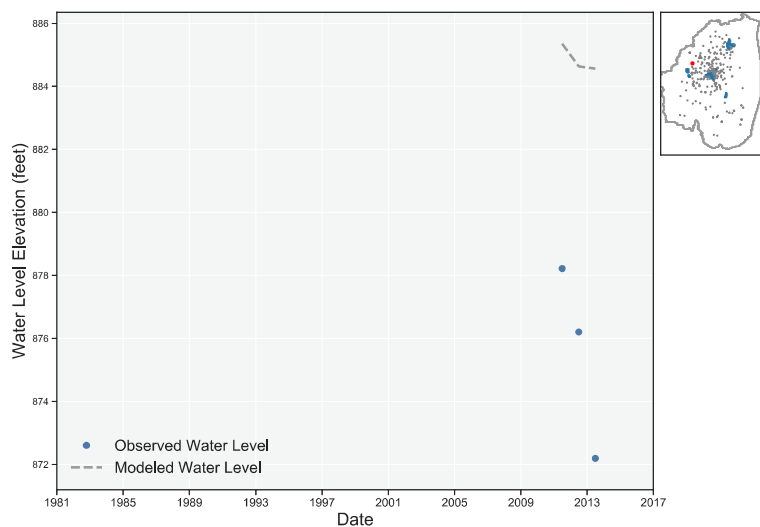
Well 141730 - Aq: OPDC Layers: 6 - 6



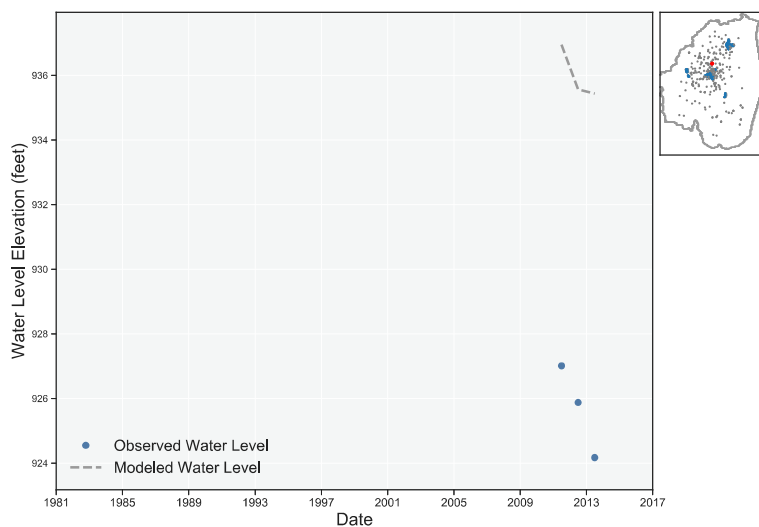
Well 138120 - Aq: OPDC Layers: 6 - 6



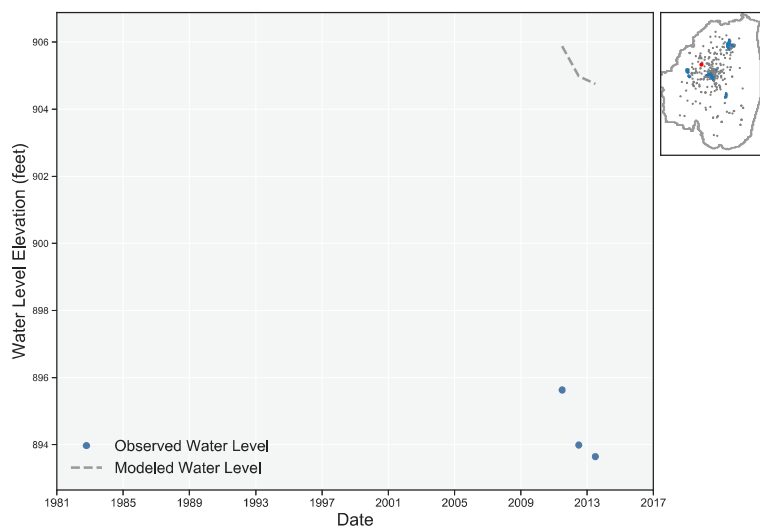
Well 170633 - Aq: OPDC Layers: 6 - 6



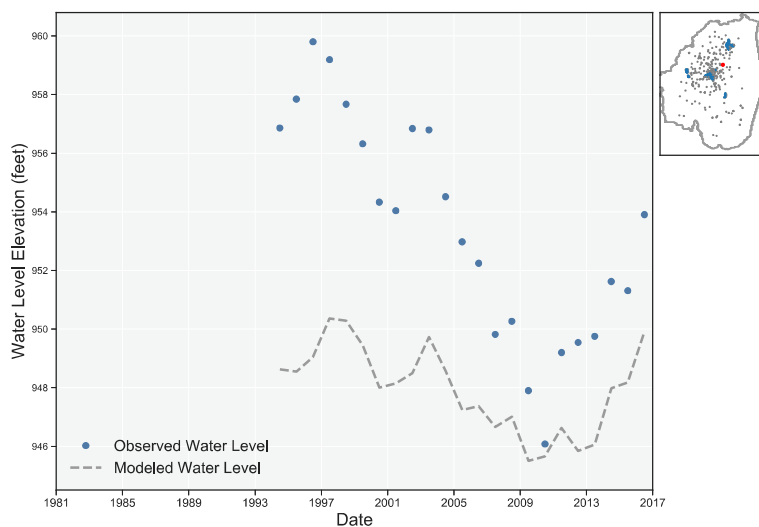
Well 439243 - Aq: OPDC Layers: 6 - 6



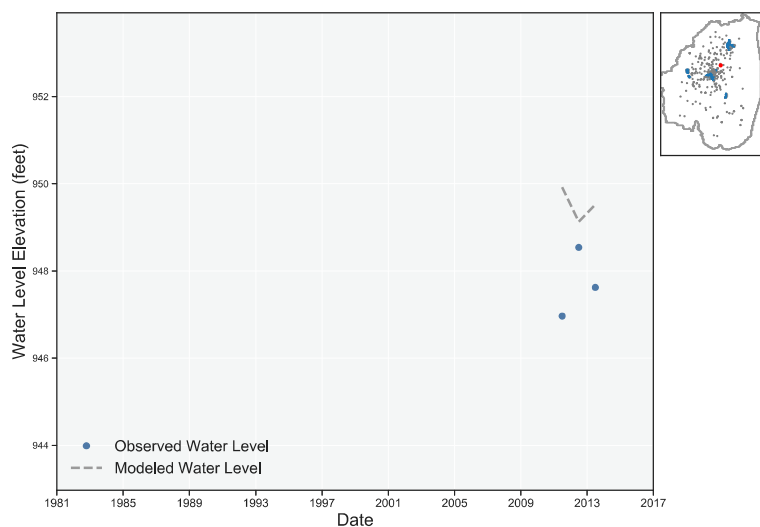
Well 138399 - Aq: OPDC Layers: 6 - 6



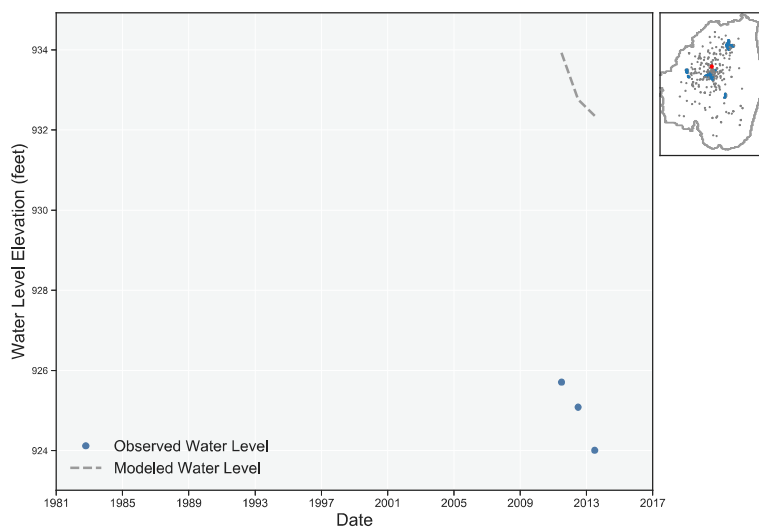
Well 82039 - Aq: OPDC Layers: 6 - 6



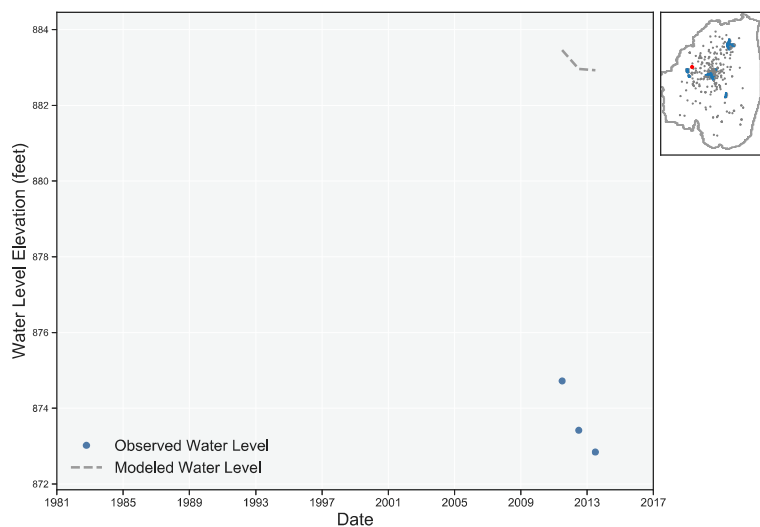
Well 413669 - Aq: OPDC Layers: 6 - 6



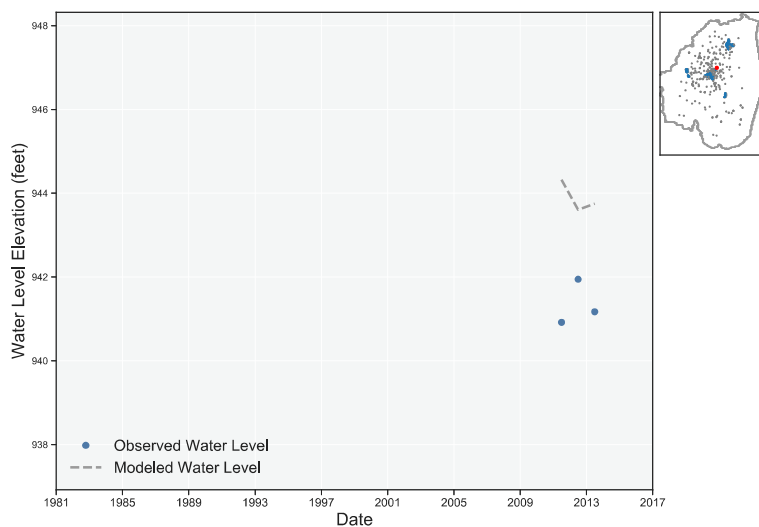
Well 546305 - Aq: OPDC Layers: 6 - 6



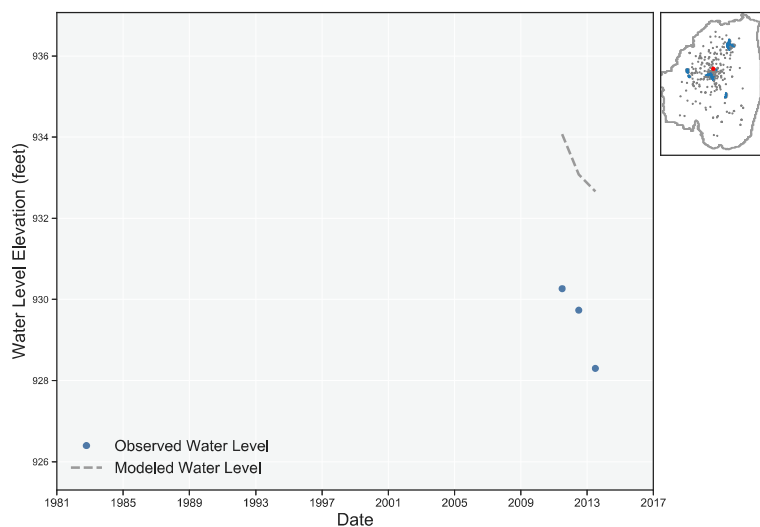
Well 512346 - Aq: OPDC Layers: 6 - 6



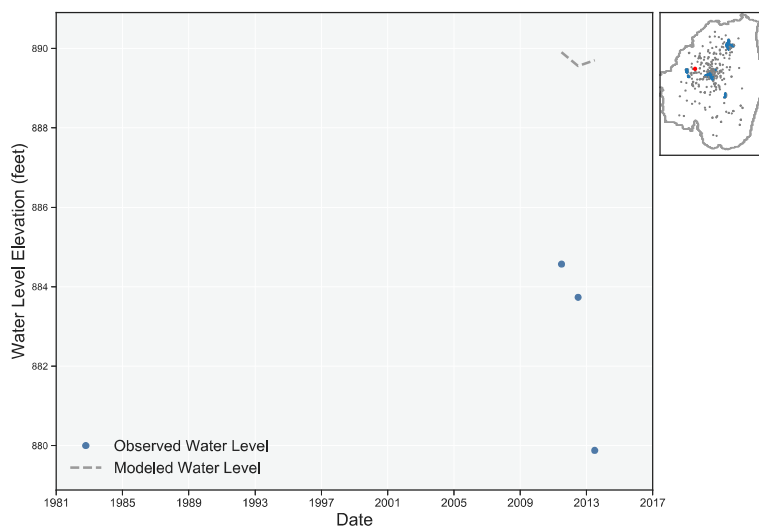
Well 139277 - Aq: OPDC Layers: 6 - 6



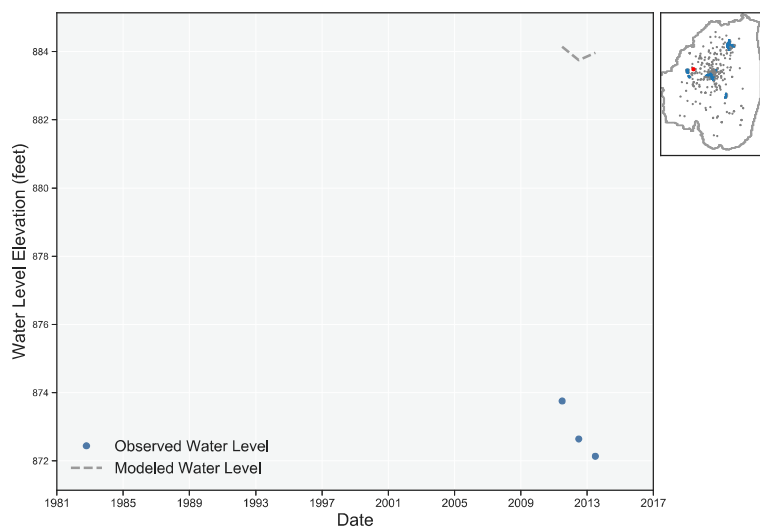
Well 436559 - Aq: OPDC Layers: 6 - 6



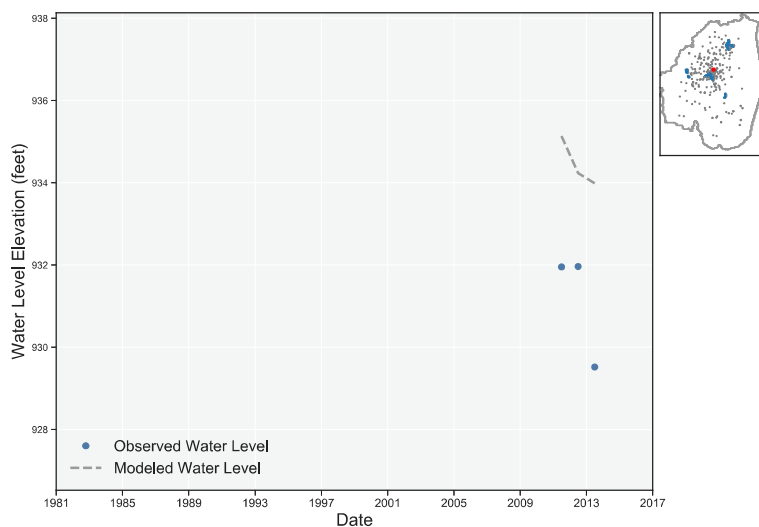
Well 205700 - Aq: OPDC Layers: 6 - 6



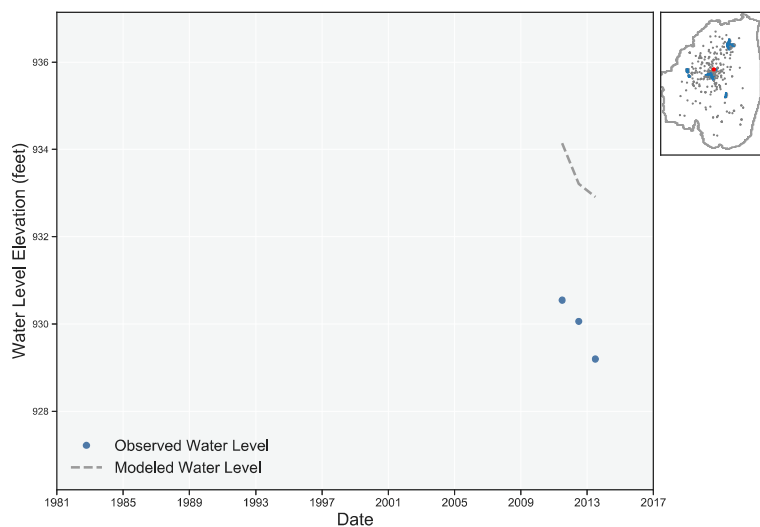
Well 521812 - Aq: OPDC Layers: 6 - 6



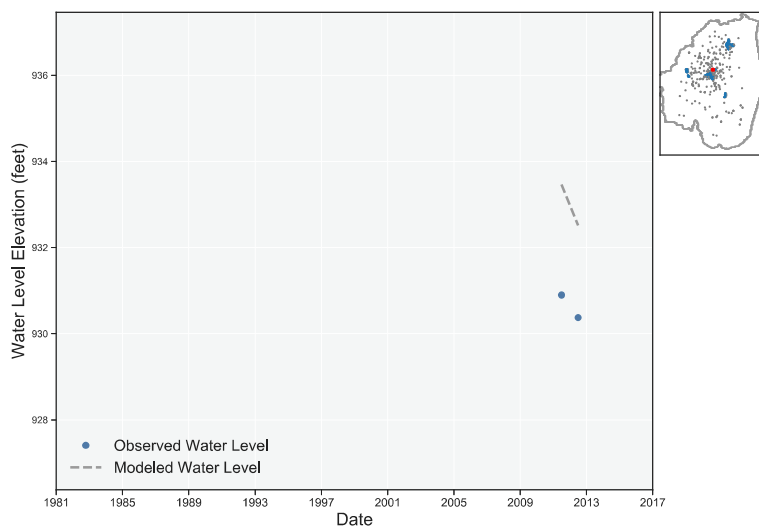
Well 418562 - Aq: OPDC Layers: 6 - 6



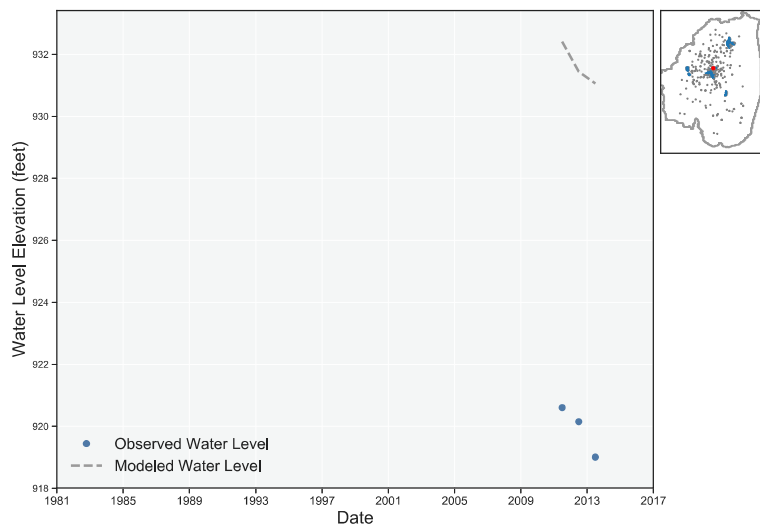
Well 421207 - Aq: OPDC Layers: 6 - 6



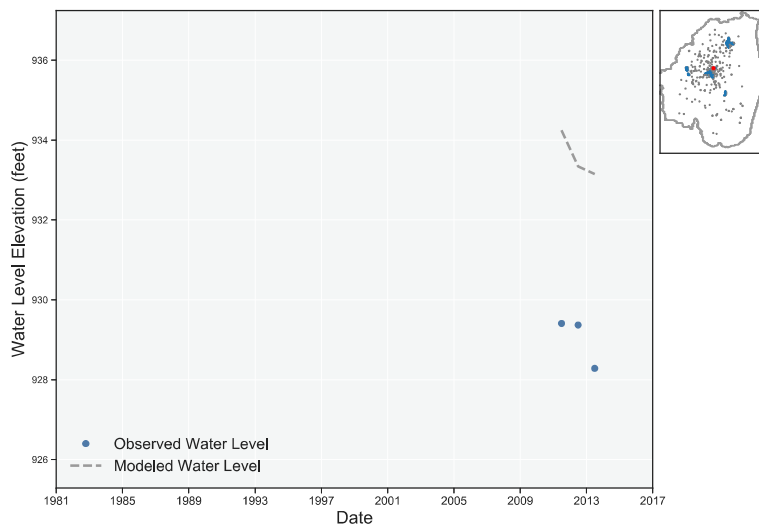
Well 450530 - Aq: OPDC Layers: 6 - 6



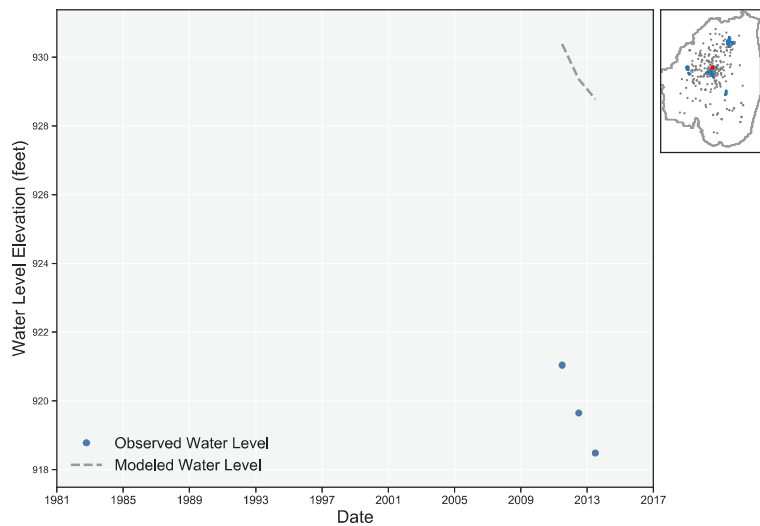
Well 427888 - Aq: OPDC Layers: 6 - 6



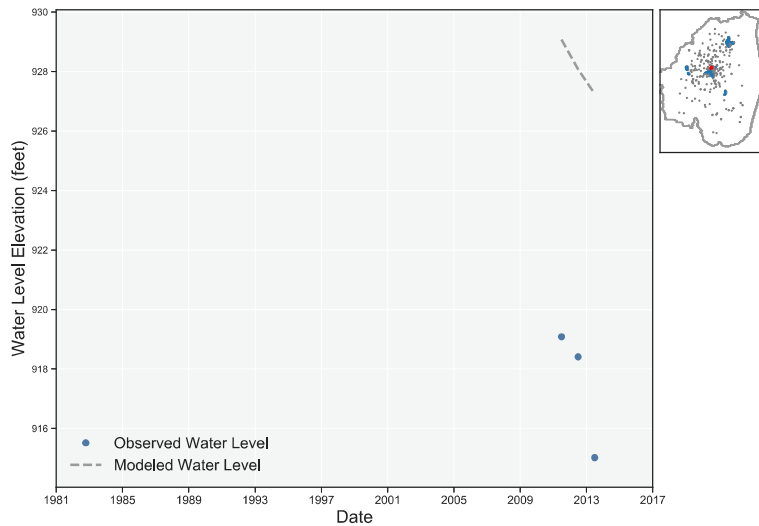
Well 182909 - Aq: OPDC Layers: 6 - 6



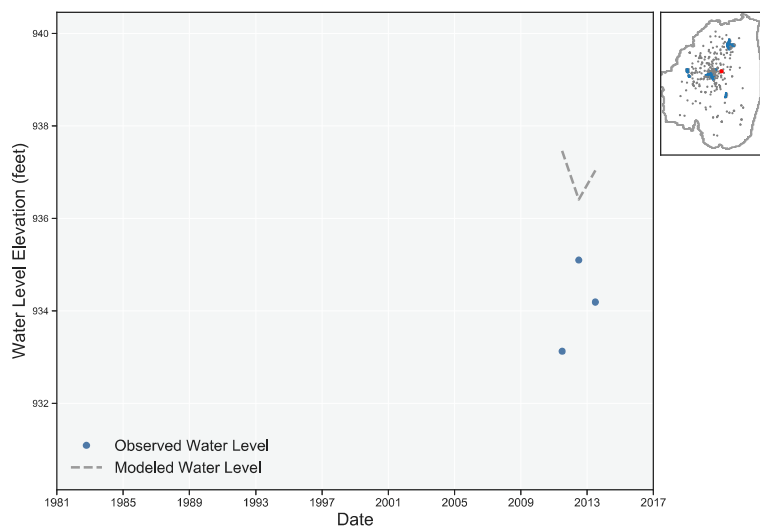
Well 208473 - Aq: OPDC Layers: 6 - 6



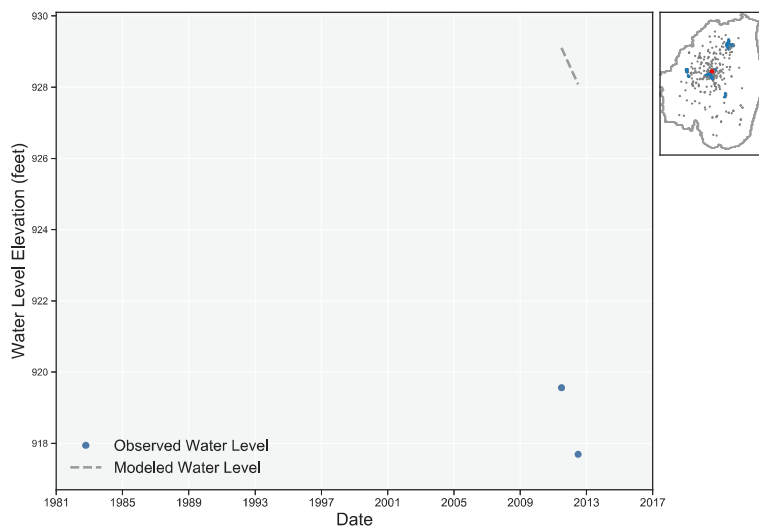
Well 450573 - Aq: OPDC Layers: 6 - 6



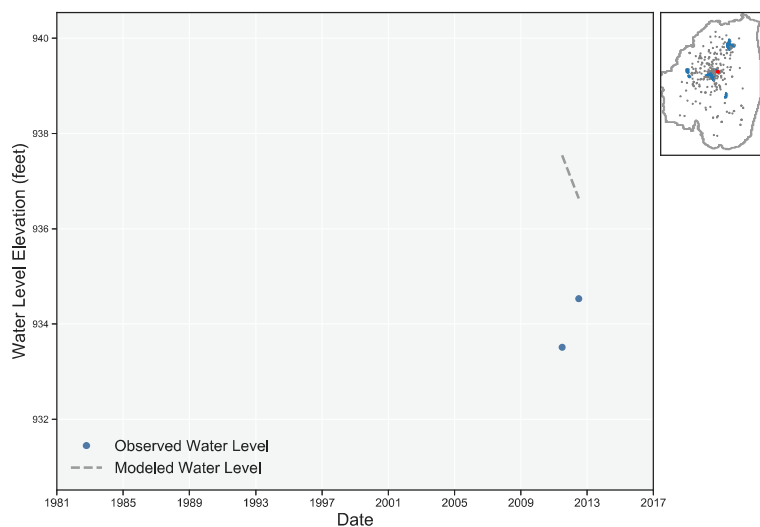
Well 182782 - Aq: OPDC Layers: 6 - 6



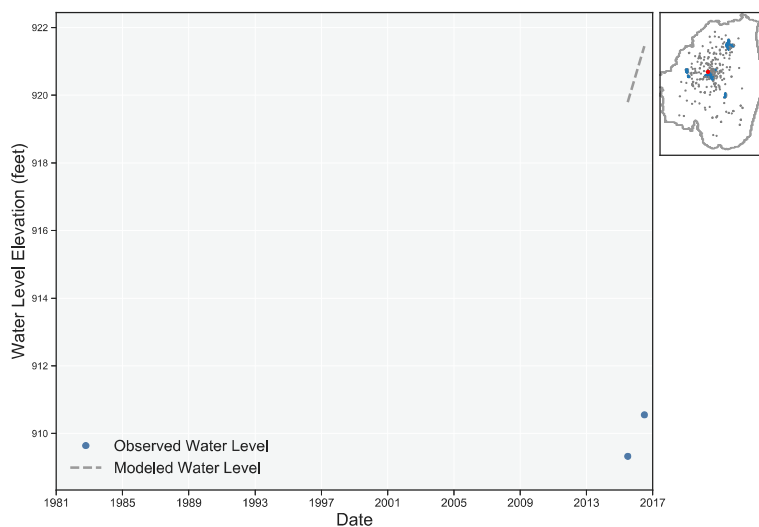
Well 182763 - Aq: OPDC Layers: 6 - 6



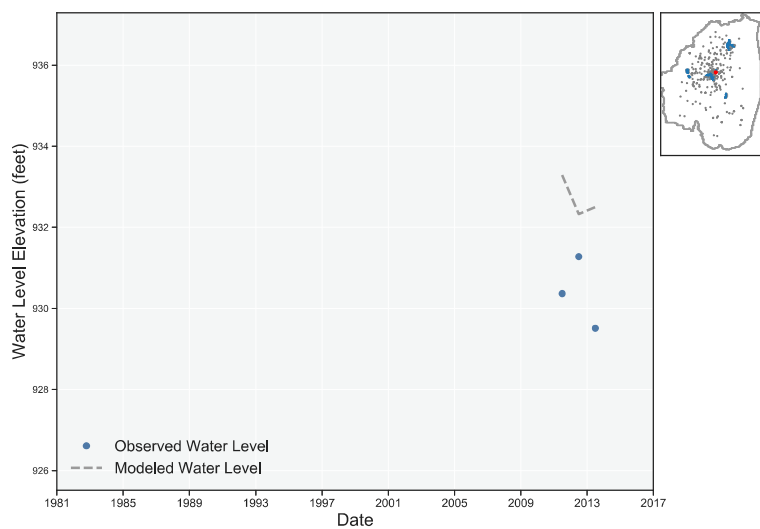
Well 430520 - Aq: OPDC Layers: 6 - 6



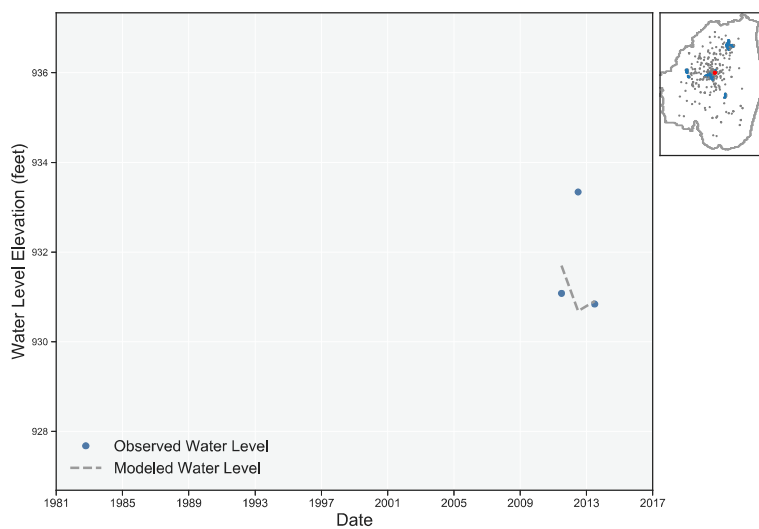
Well 62053 - Aq: CJDN Layers: 6 - 6



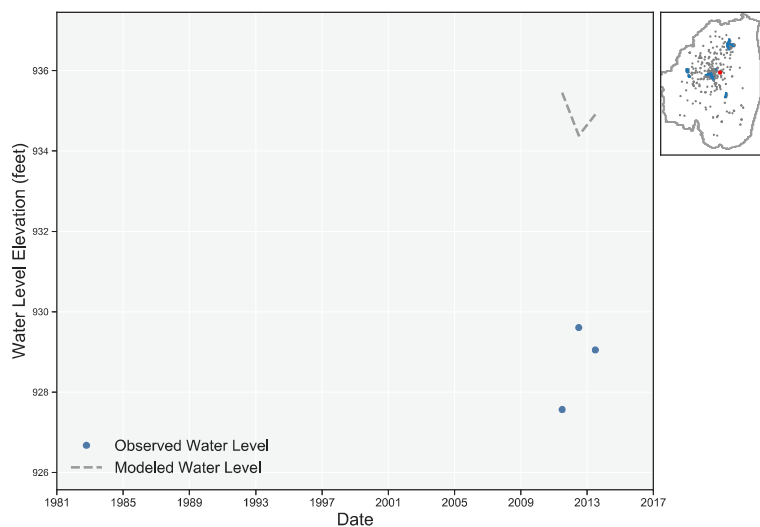
Well 195679 - Aq: OPDC Layers: 6 - 6



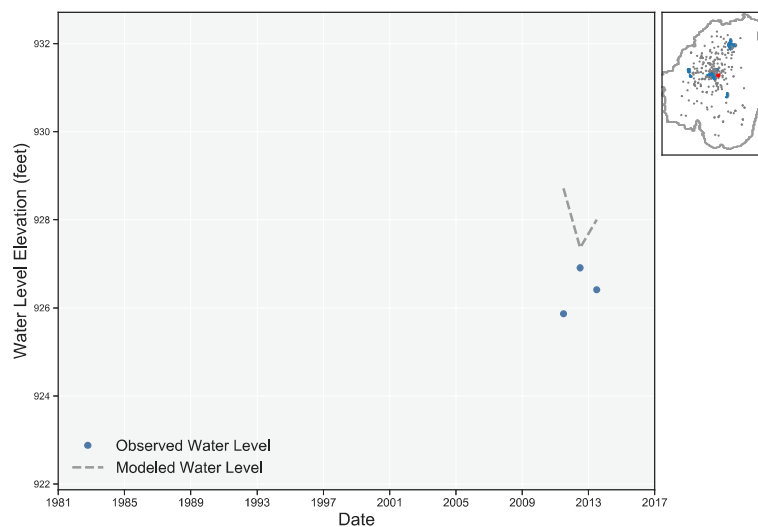
Well 207398 - Aq: OPDC Layers: 6 - 6



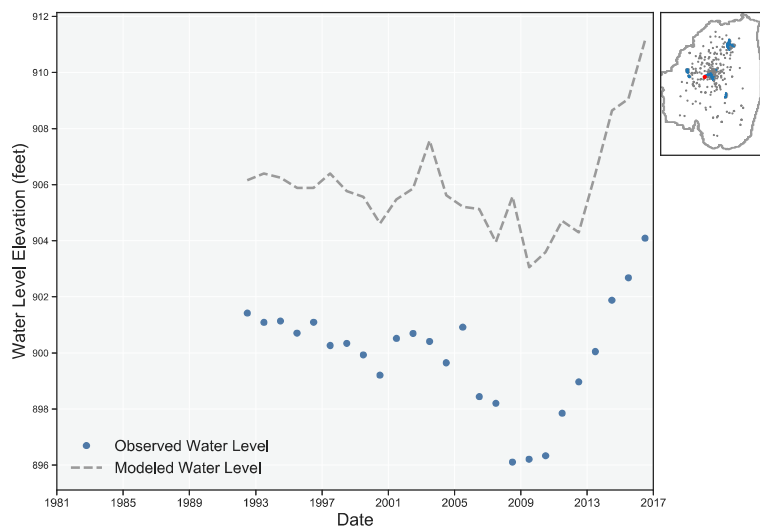
Well 404147 - Aq: OPDC Layers: 6 - 6



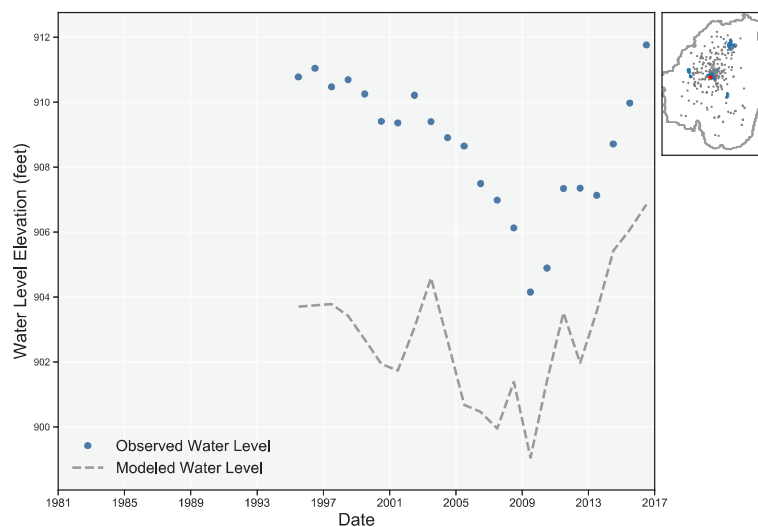
Well 420312 - Aq: OPDC Layers: 6 - 6



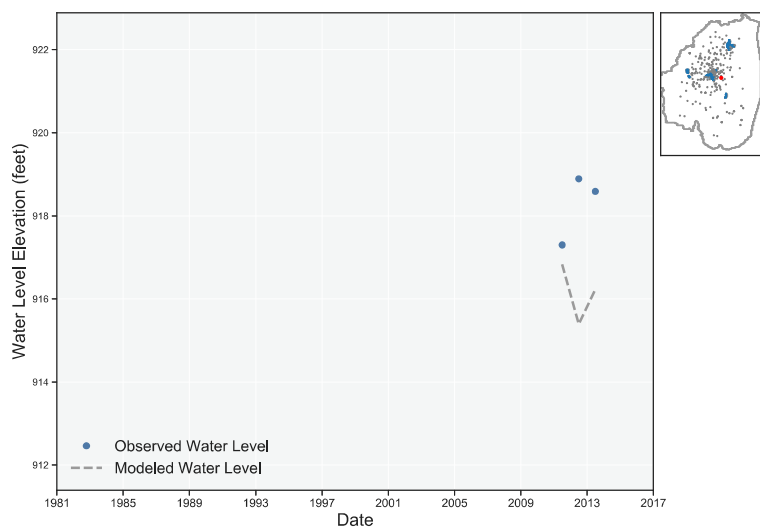
Well 62038 - Aq: OPDCCJDN Layers: 6 - 6



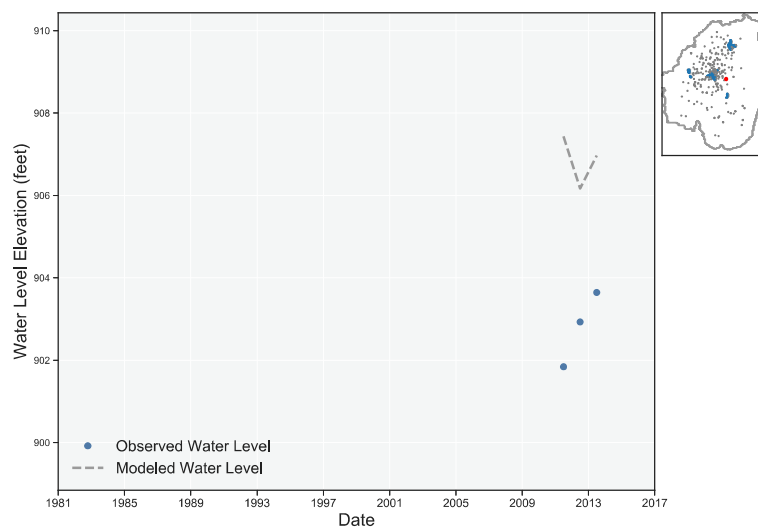
Well 62044 - Aq: OPDC Layers: 6 - 6



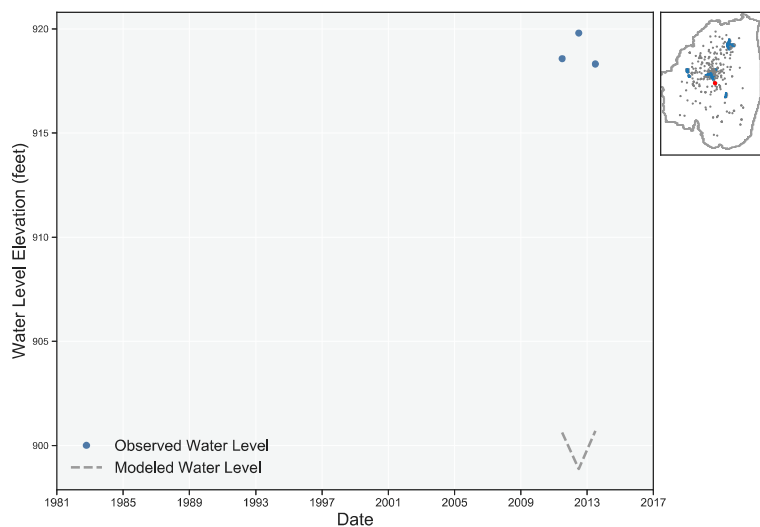
Well 435121 - Aq: OPDC Layers: 6 - 6



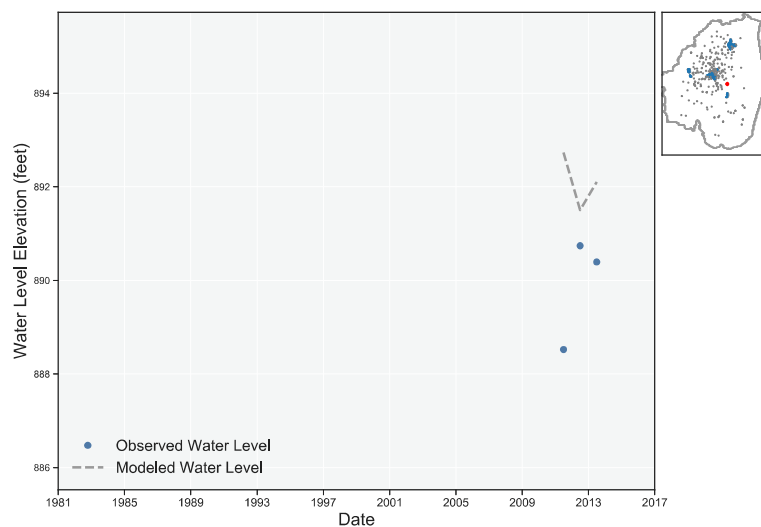
Well 762107 - Aq: OSTP Layers: 6 - 6



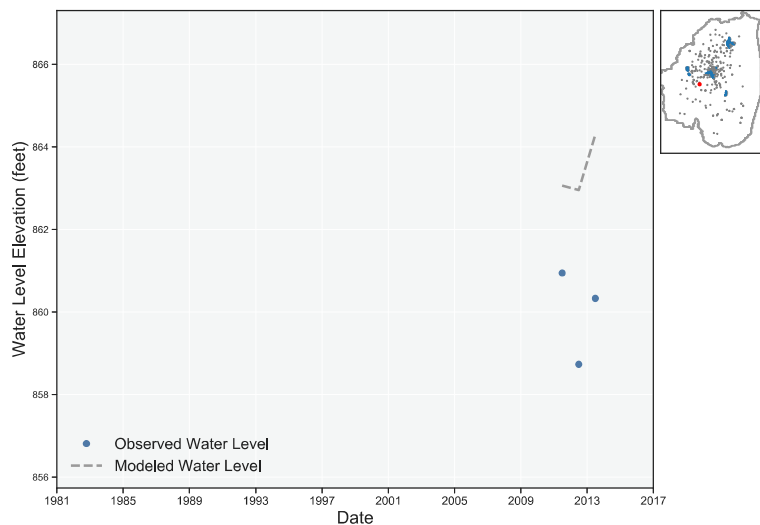
Well 138719 - Aq: OPDC Layers: 6 - 6



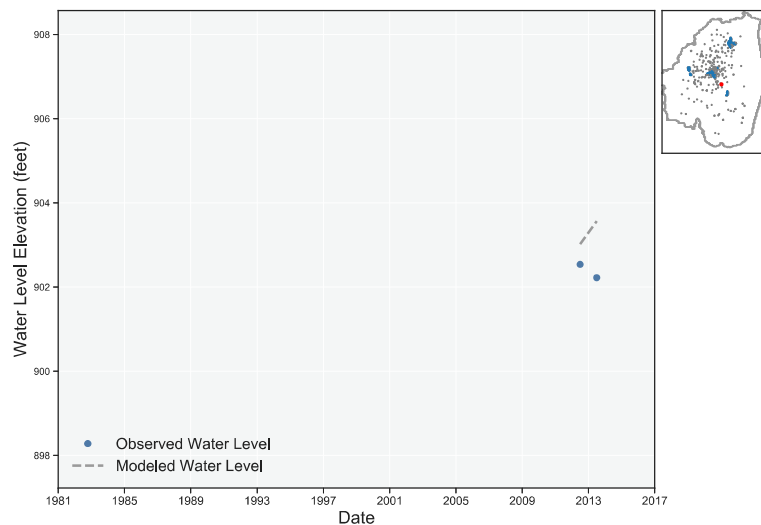
Well 242357 - Aq: OPDC Layers: 6 - 6



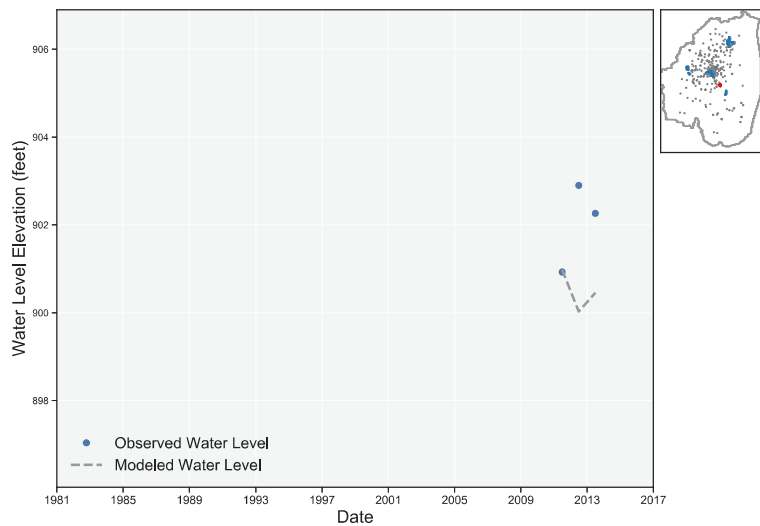
Well 430379 - Aq: OPDC Layers: 6 - 6



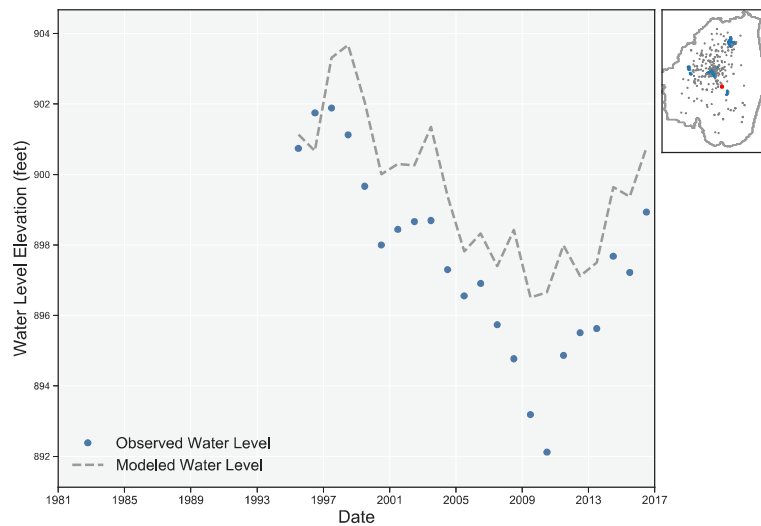
Well 421245 - Aq: OPDC Layers: 6 - 6



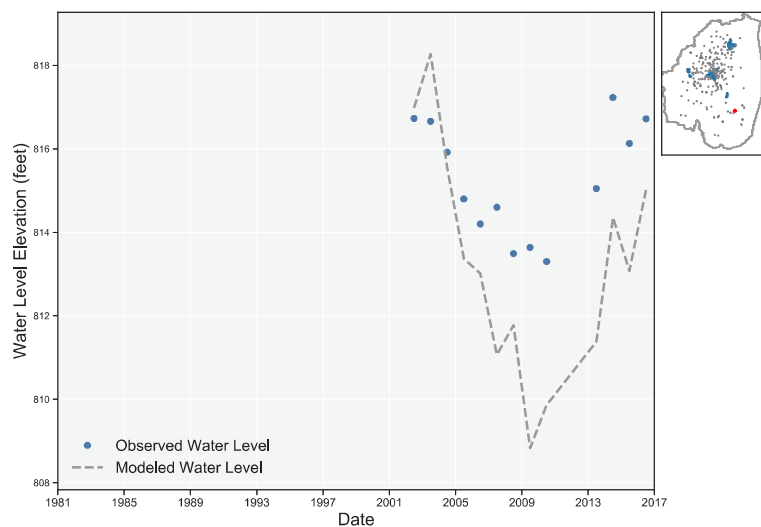
Well 440010 - Aq: OSTP Layers: 6 - 6



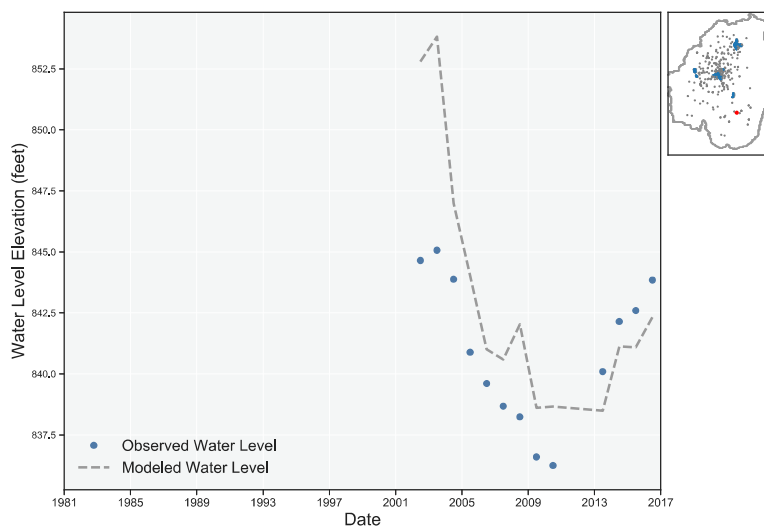
Well 82041 - Aq: OPDC Layers: 6 - 6



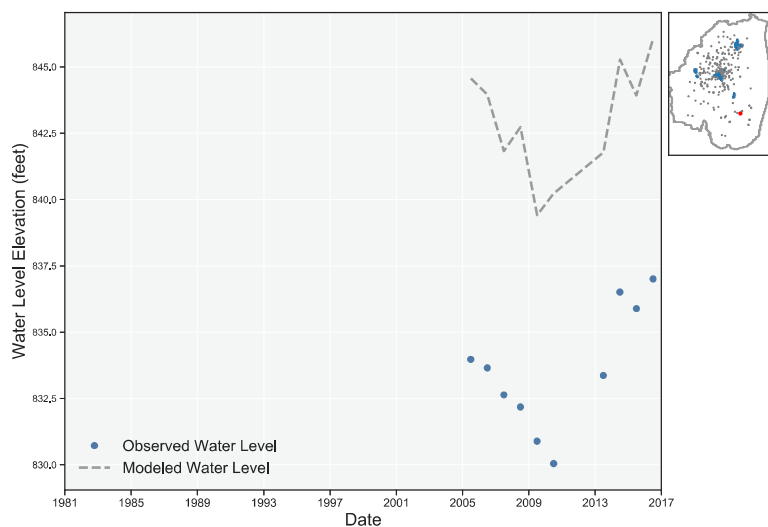
Well 675585 - Aq: OPDC Layers: 6 - 6



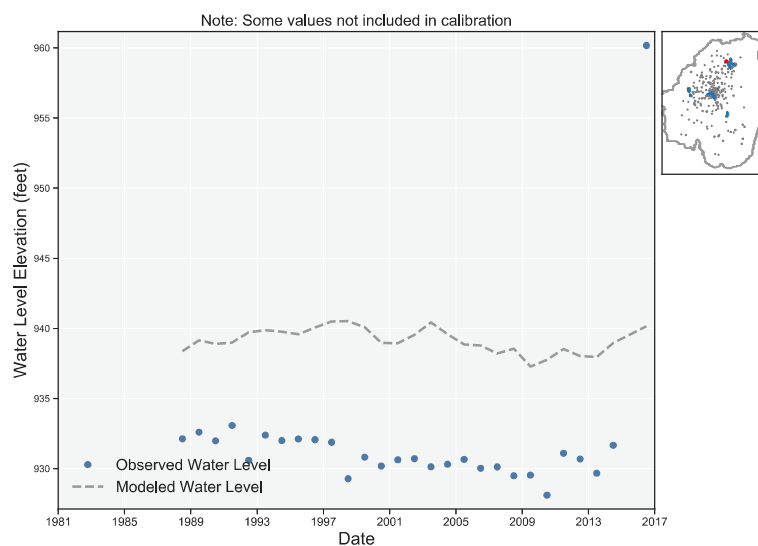
Well 675582 - Aq: OPDC Layers: 6 - 6



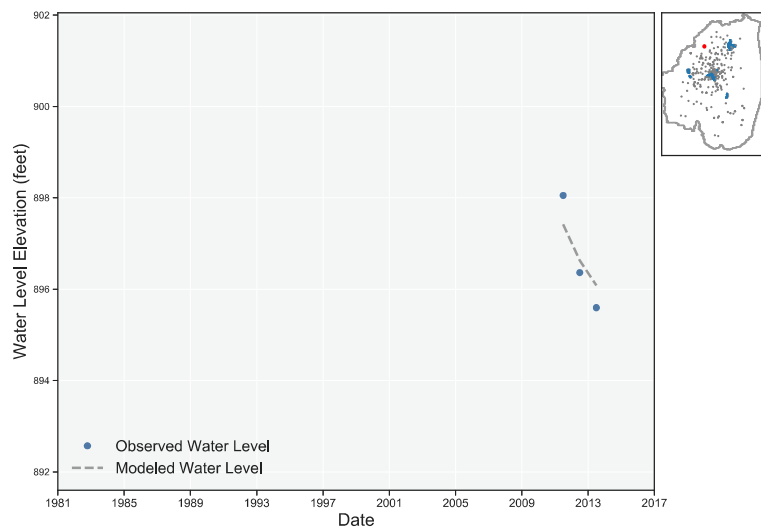
Well 727706 - Aq: OPDC Layers: 6 - 6



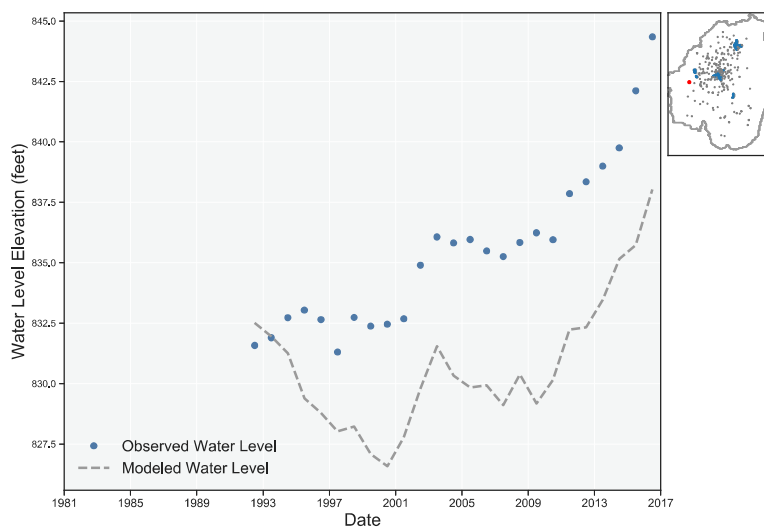
Well 82030 - Aq: OPDCCJDN Layers: 6 - 7



Well 136792 - Aq: OPCJ Layers: 6 - 7

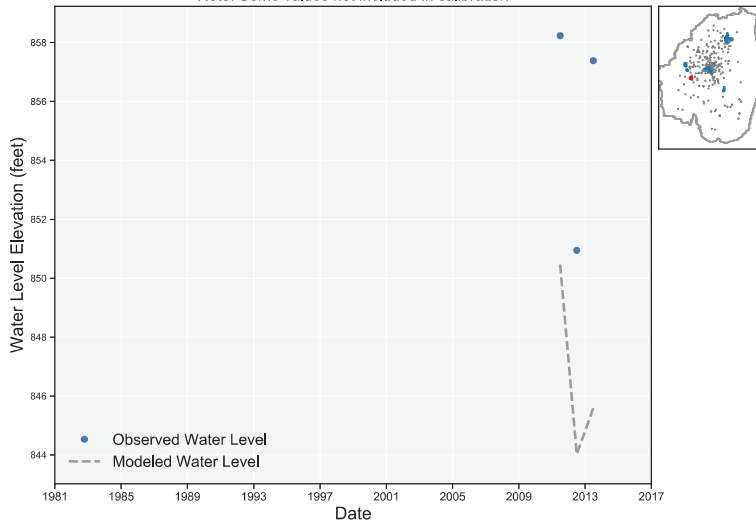


Well 62037 - Aq: OPDCCJDN Layers: 6 - 7



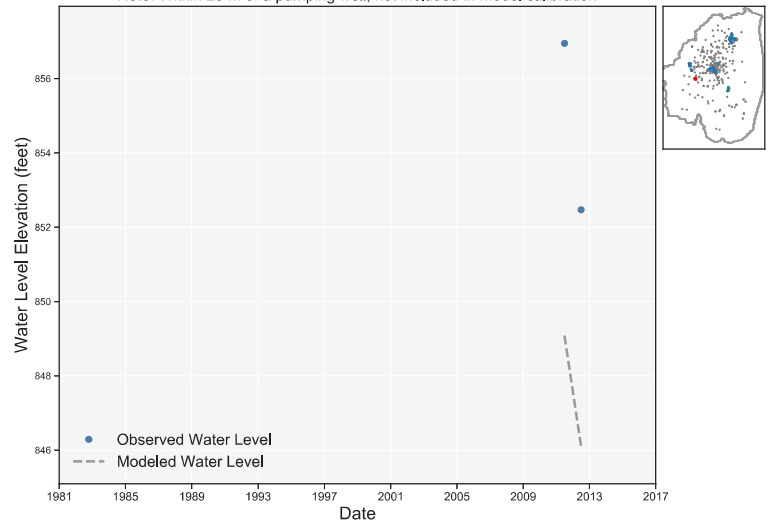
Well 151579 - Aq: OPCJ Layers: 6 - 7

Note: This is a pumping well (1977-6229, installation E) but was not pumped in 2011 or 2012.
Note: Some values not included in calibration

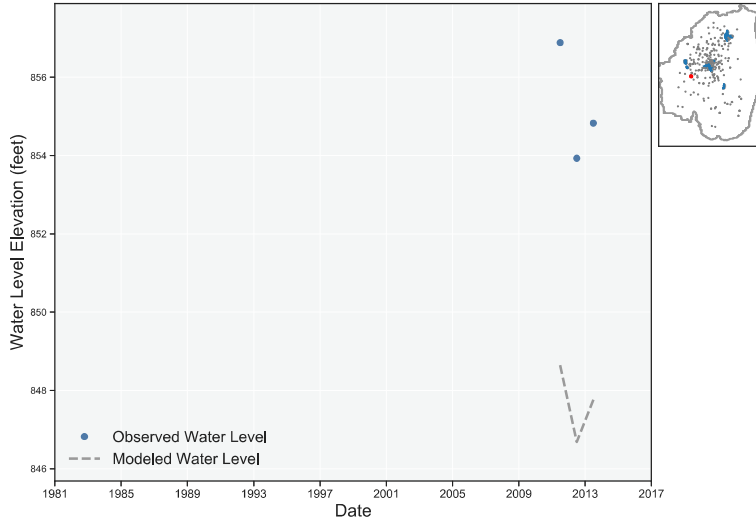


Well 706802 - Aq: OPCJ Layers: 6 - 7

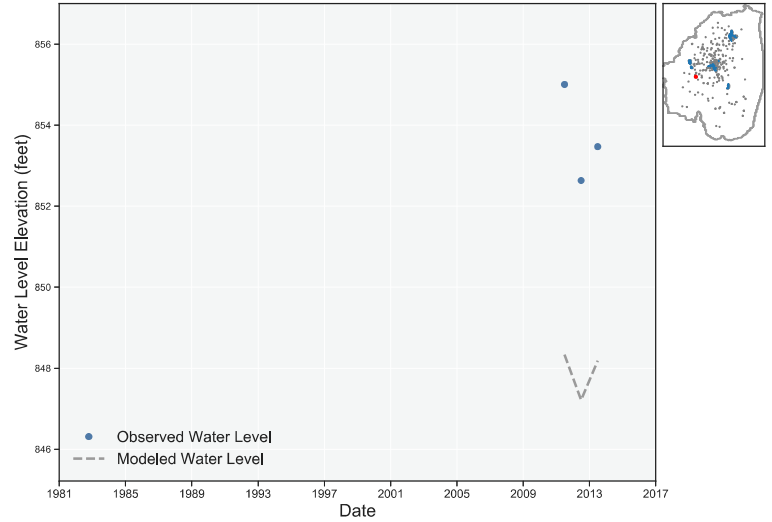
Note: Within 25 m of a pumping well, not included in model calibration



Well 753666 - Aq: OPCJ Layers: 6 - 7

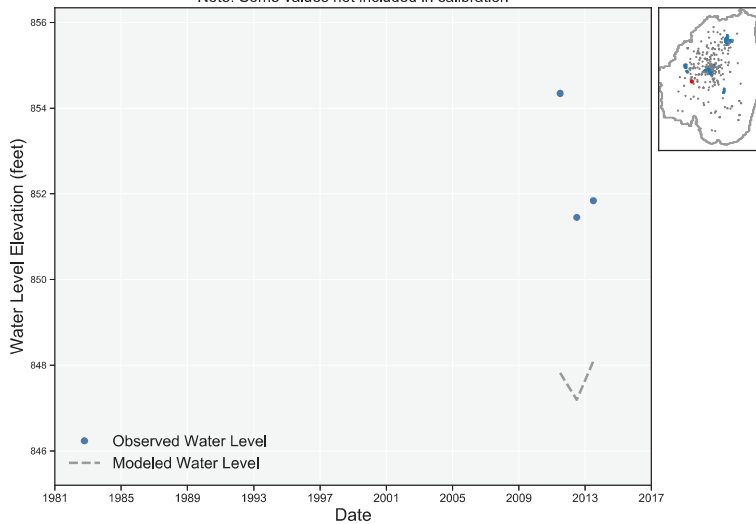


Well 753667 - Aq: OPCJ Layers: 6 - 7



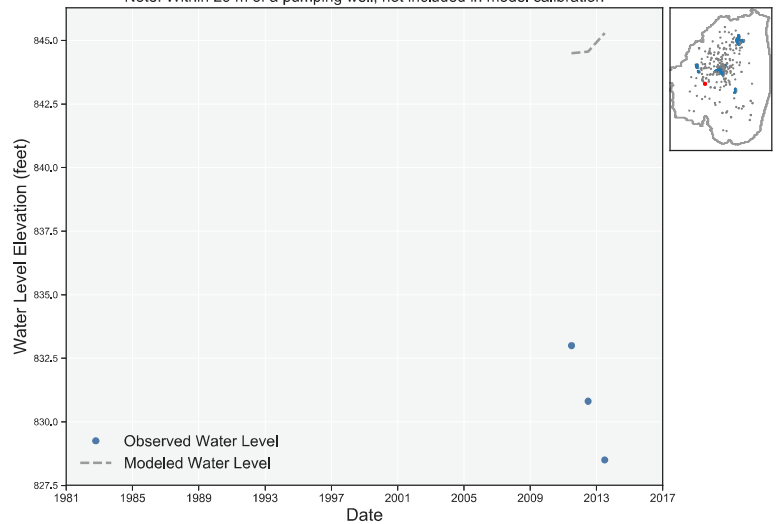
Well 759568 - Aq: OPCJ Layers: 6 - 7

Note: Some values not included in calibration

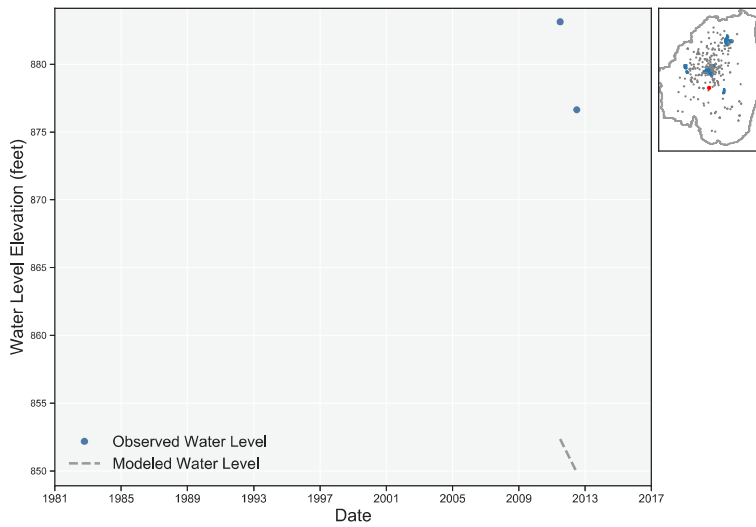


Well 759569 - Aq: OPCJ Layers: 6 - 7

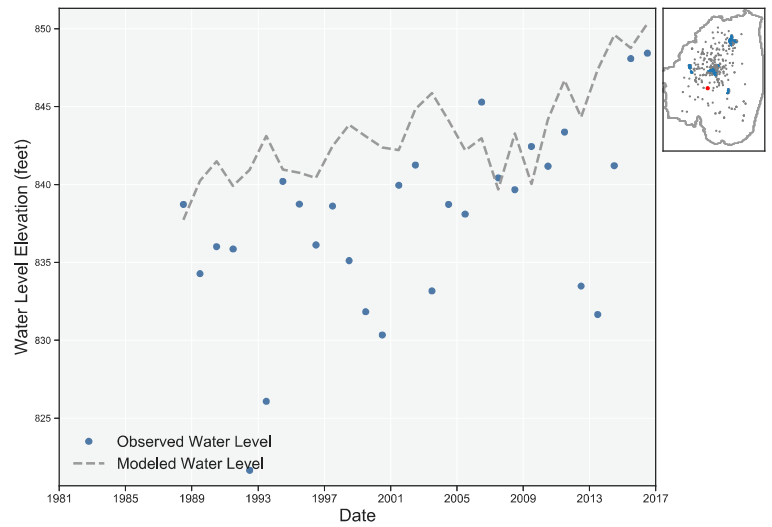
Note: Within 25 m of a pumping well, not included in model calibration



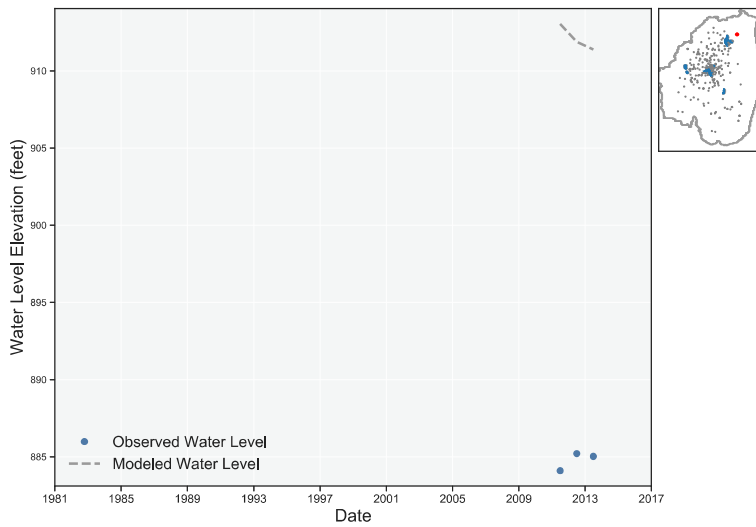
Well 686293 - Aq: OPCJ Layers: 6 - 7



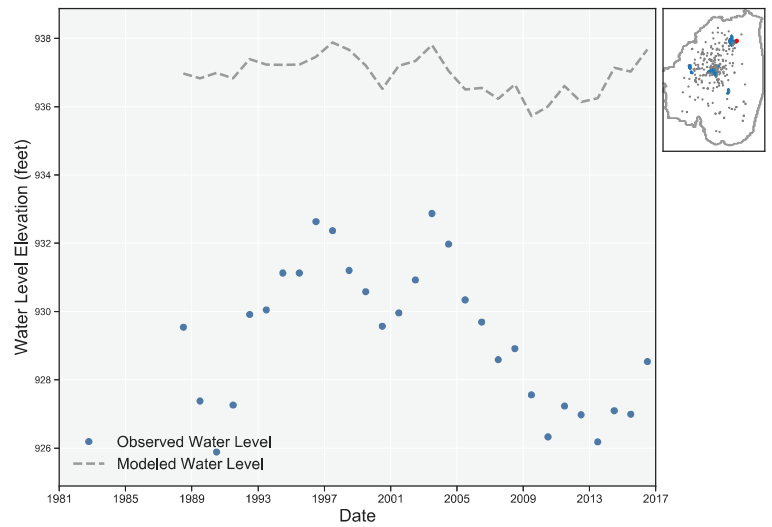
Well 62009 - Aq: OPDCCJDN Layers: 6 - 7



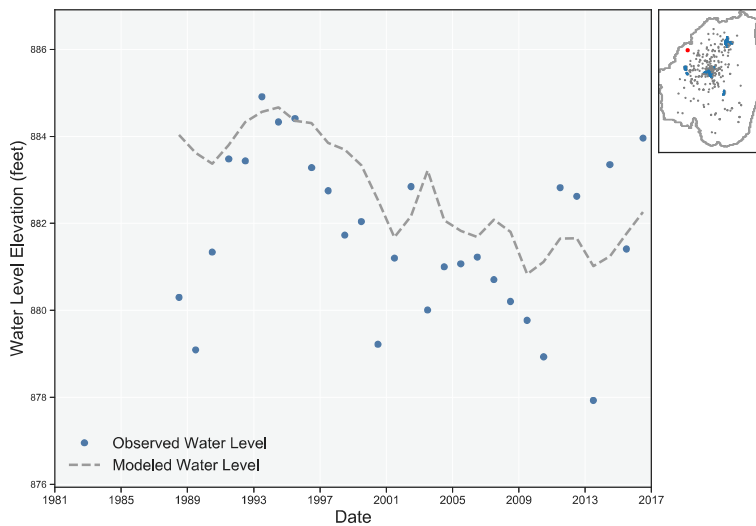
Well 517015 - Aq: OPCJ Layers: 7 - 7



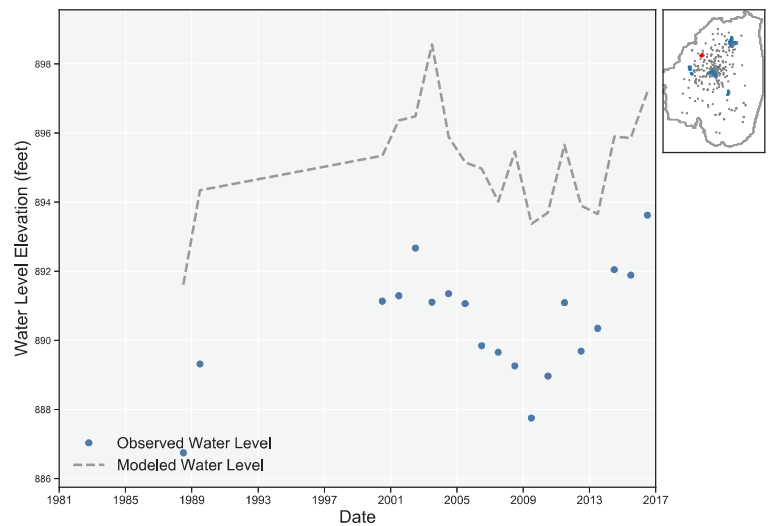
Well 82031 - Aq: CJDN Layers: 7 - 7



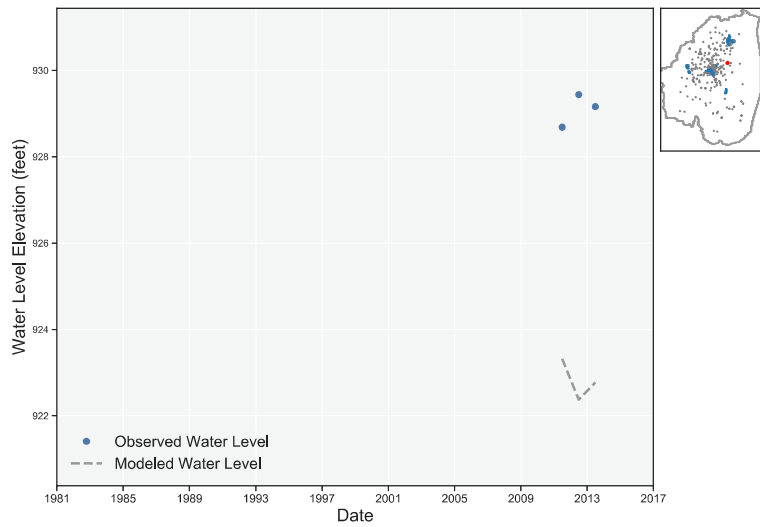
Well 2008 - Aq: QBAA Layers: 7 - 7



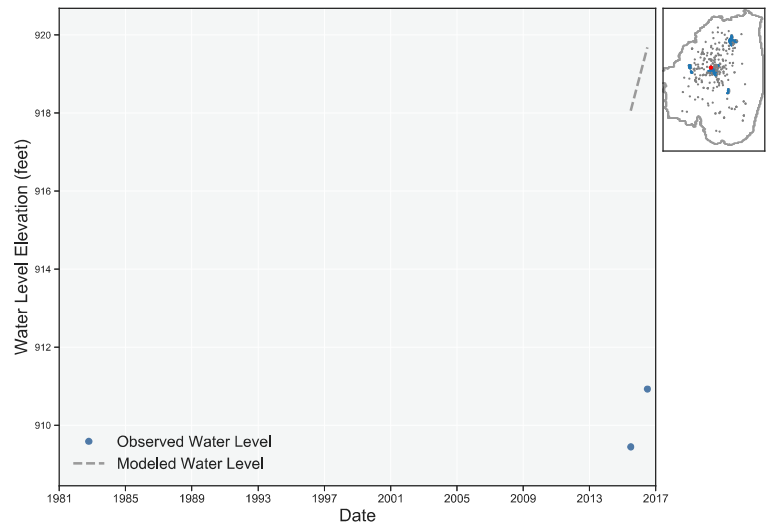
Well 1212 - Aq: CJDN Layers: 7 - 7



Well 409004 - Aq: OSTP Layers: 7 - 7

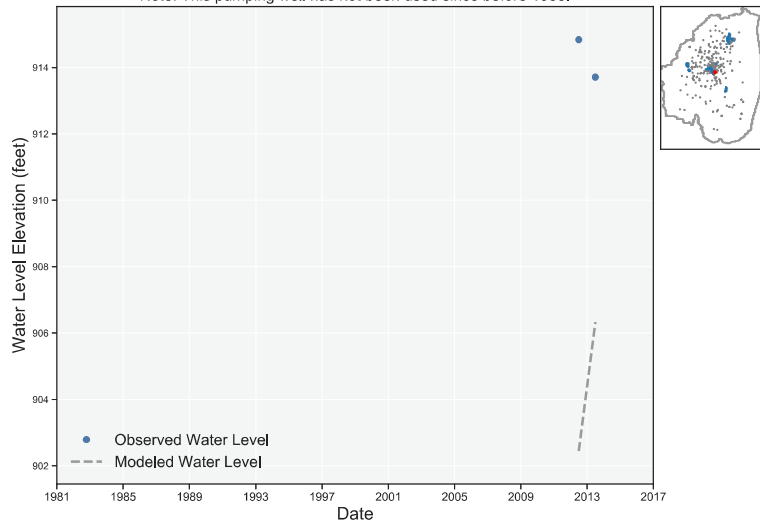


Well 62054 - Aq: OPDC Layers: 7 - 7



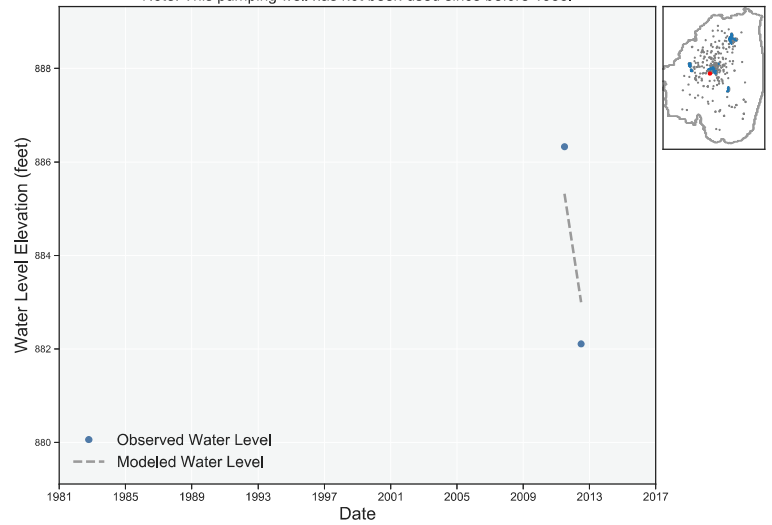
Well 208506 - Aq: CJDN Layers: 7 - 7

Note: This pumping well has not been used since before 1988.

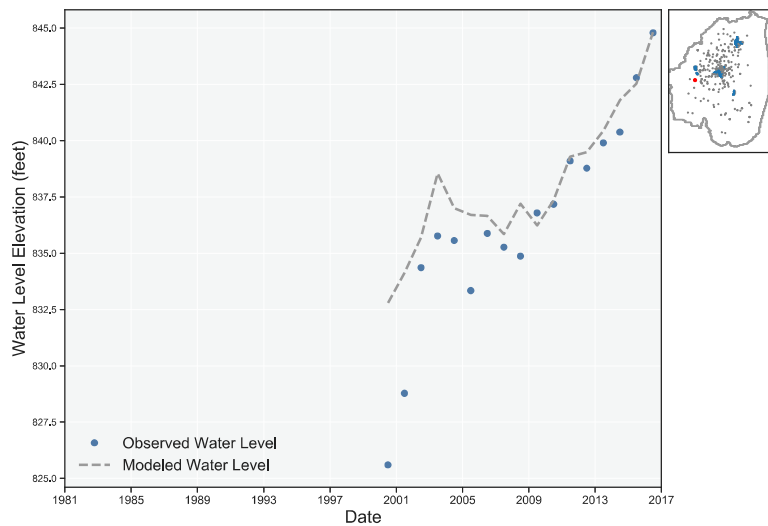


Well 226567 - Aq: CJSL Layers: 7 - 7

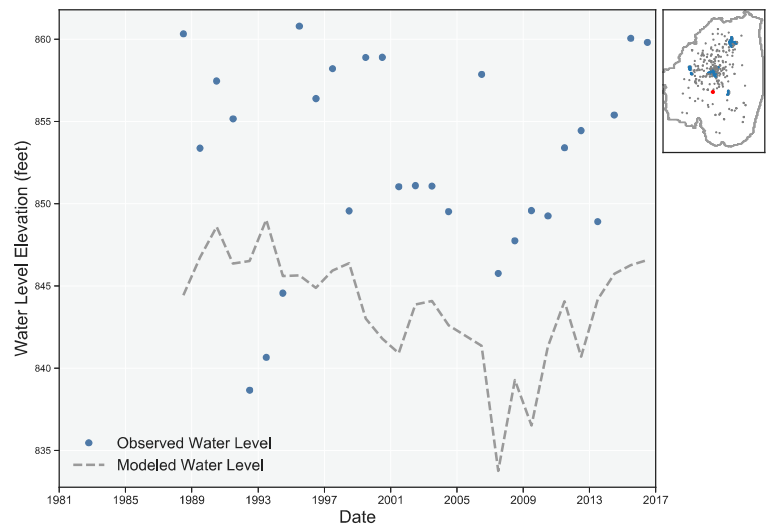
Note: This pumping well has not been used since before 1988.



Well 62030 - Aq: CJDN Layers: 7 - 7

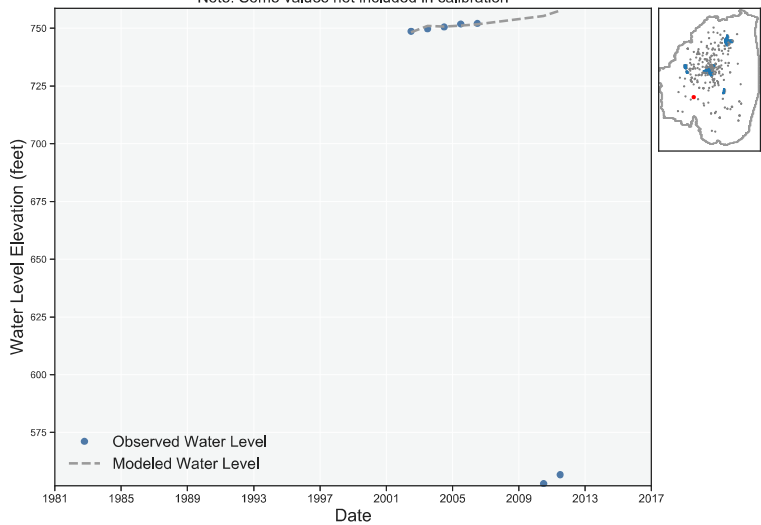


Well 62001 - Aq: CJDN Layers: 7 - 7

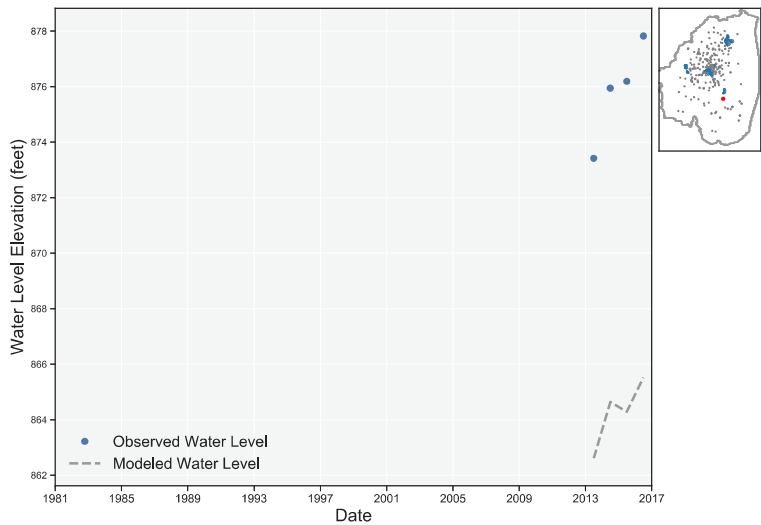


Well 62049 - Aq: CJDN Layers: 7 - 7

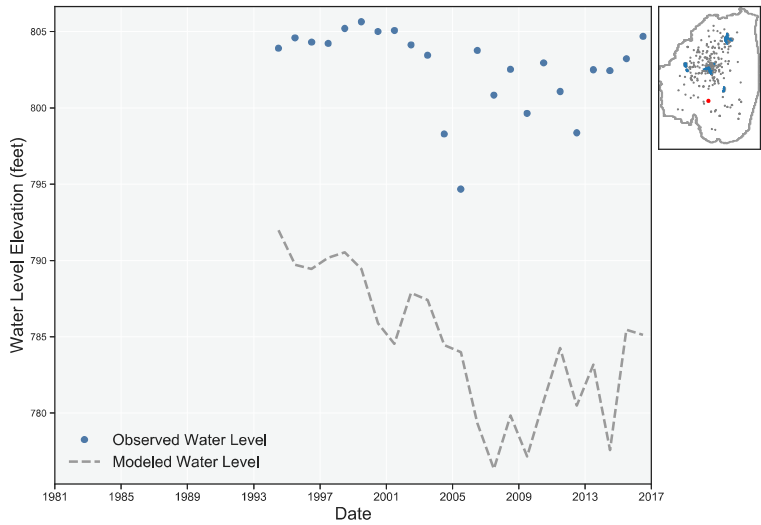
Note: Some values not included in calibration



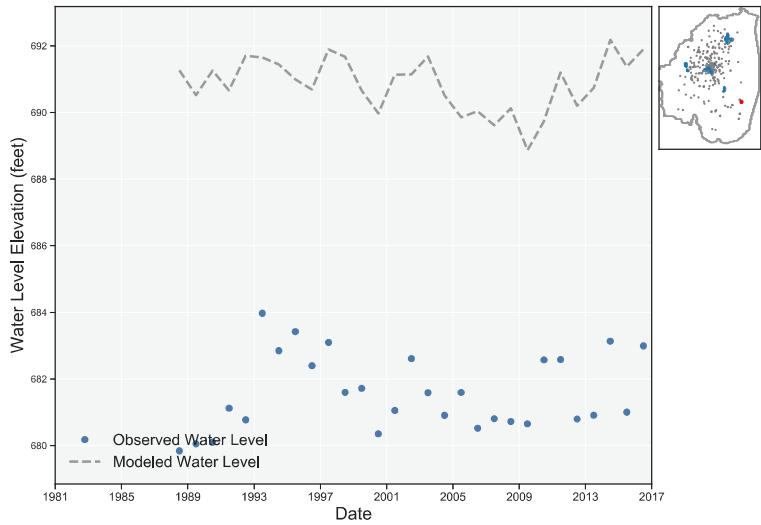
Well 82058 - Aq: QBAA Layers: 7 - 7



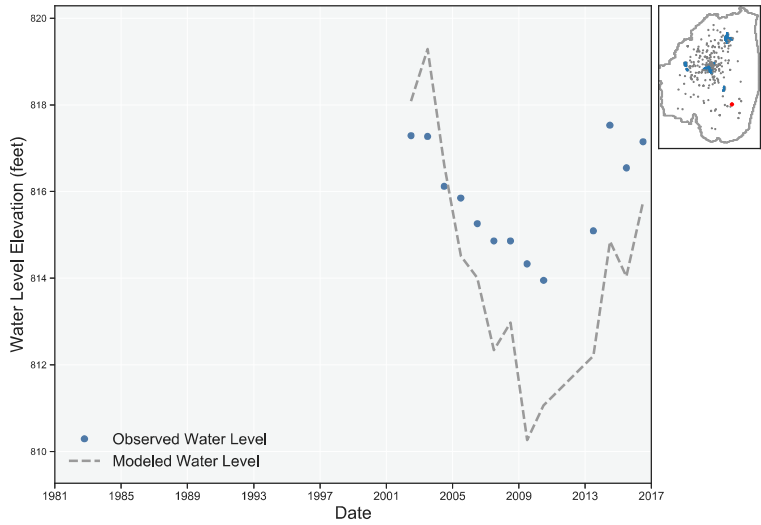
Well 62040 - Aq: CJDN Layers: 7 - 7



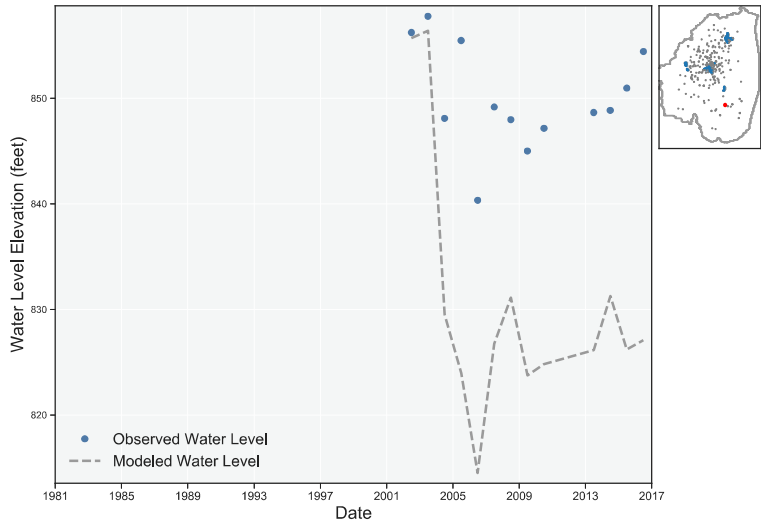
Well 82011 - Aq: CECR Layers: 7 - 7



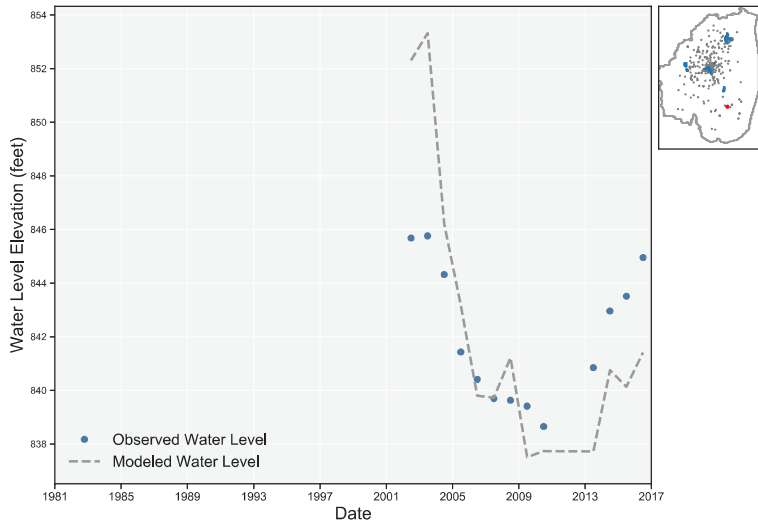
Well 675584 - Aq: CJDN Layers: 7 - 7



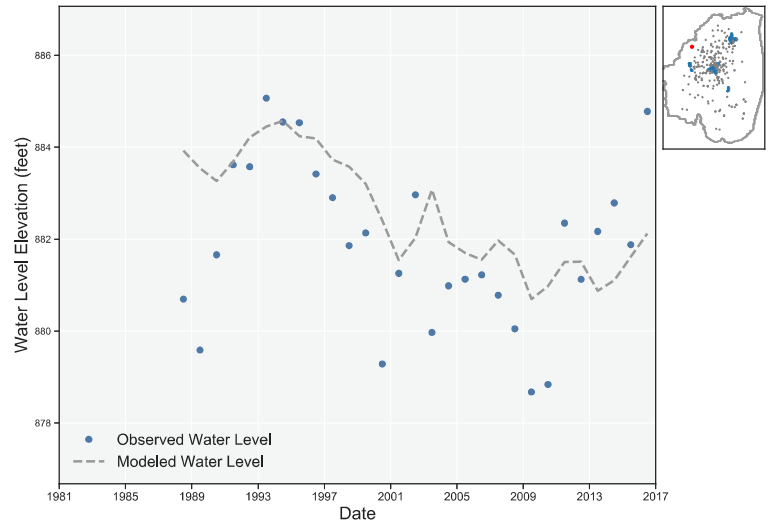
Well 675580 - Aq: CJDN Layers: 7 - 7



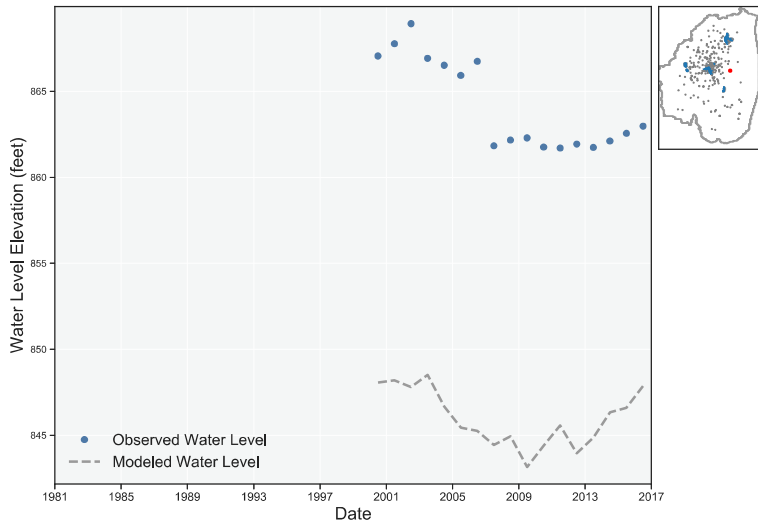
Well 675583 - Aq: CJDN Layers: 7 - 7



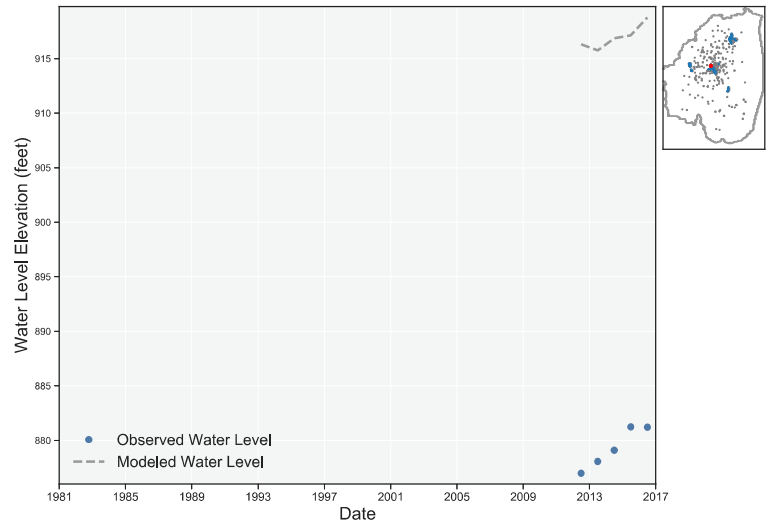
Well 2007 - Aq: QBAA Layers: 8 - 8



Well 82047 - Aq: CTCG Layers: 9 - 9

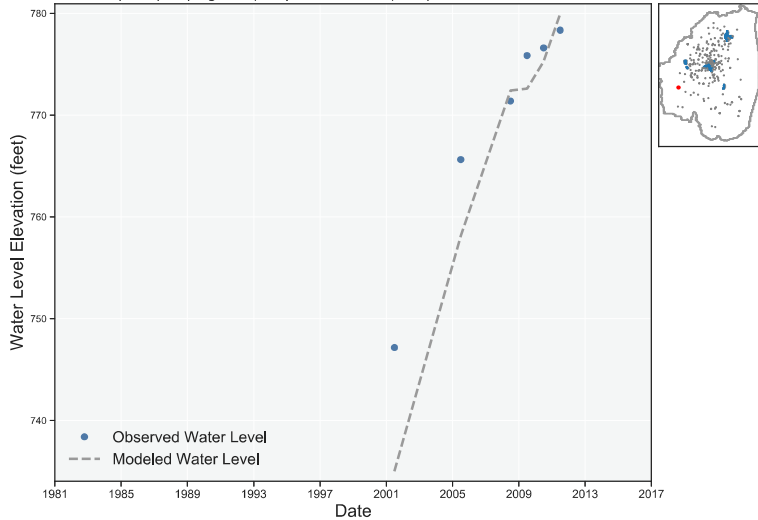


Well 62052 - Aq: CTCW Layers: 9 - 10



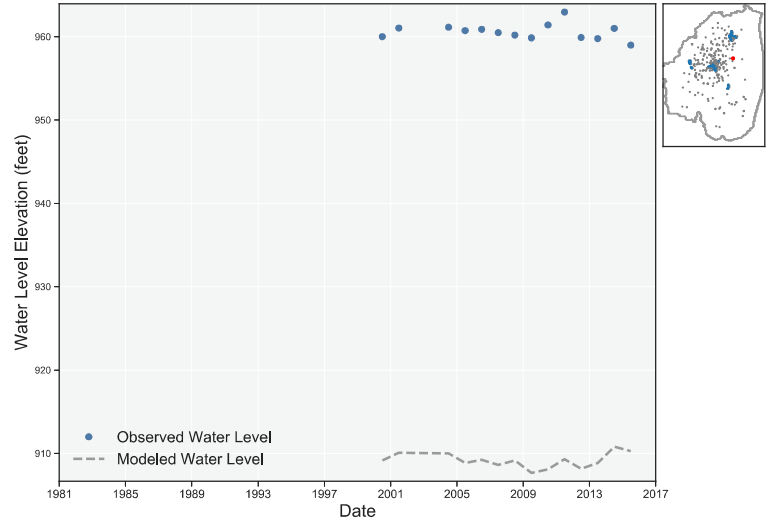
Well 62041 - Aq: CIGL Layers: 10 - 10

Note: Multi-aquifer pumping well (Unique No. 135502) not pumed after 1991, sealed 8/29/2014.

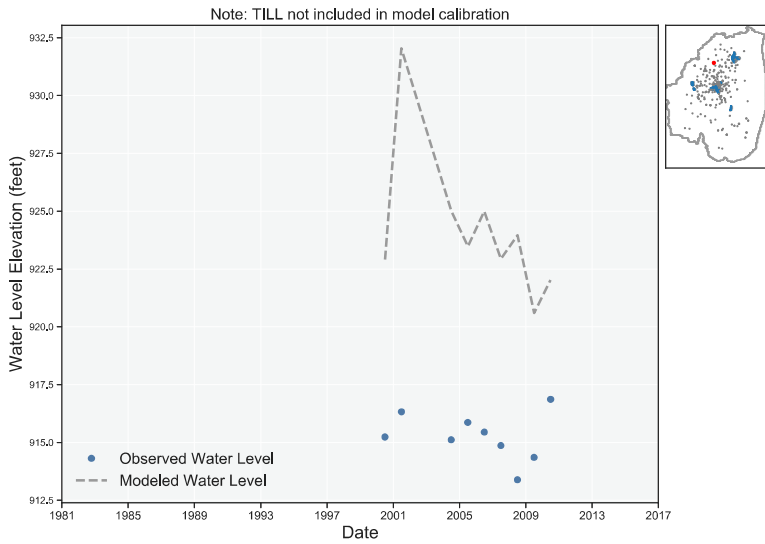


Well 82043 - Aq: TILL Layers: 1 - 1

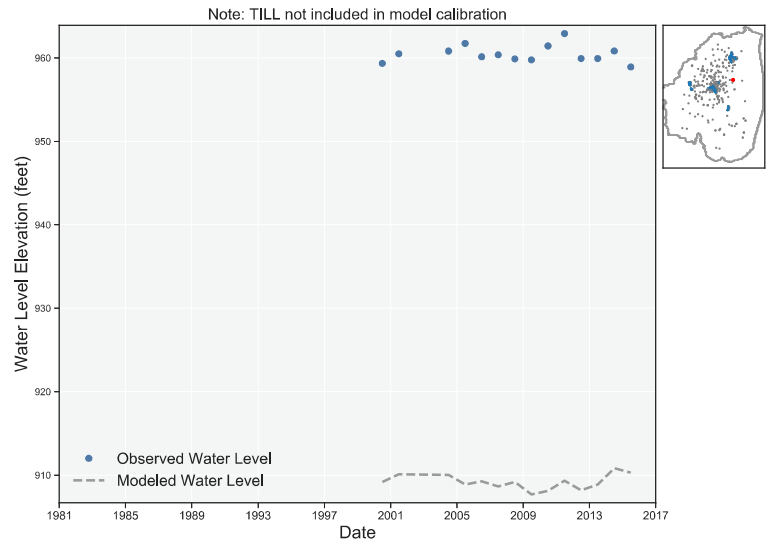
Note: TILL not included in model calibration



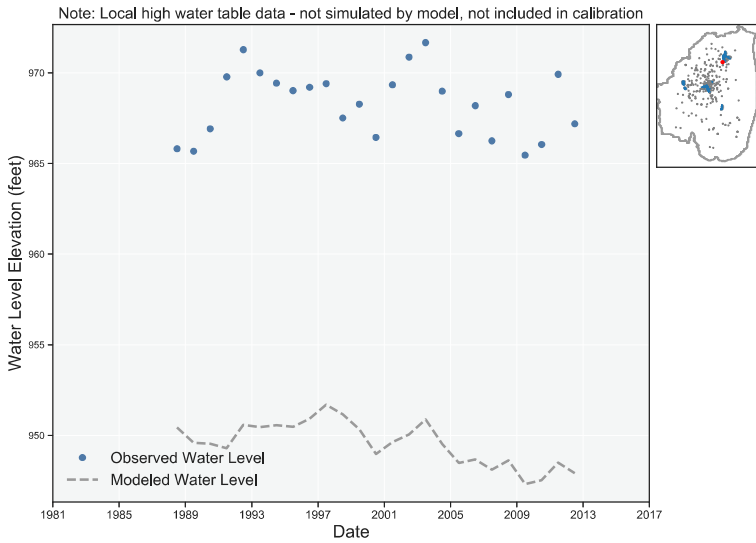
Well 82044 - Aq: TILL Layers: 2 - 2



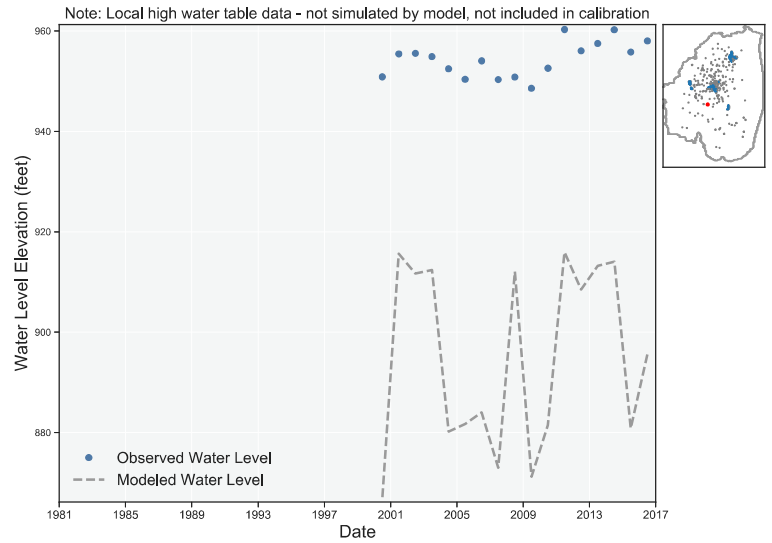
Well 82042 - Aq: TILL Layers: 3 - 3



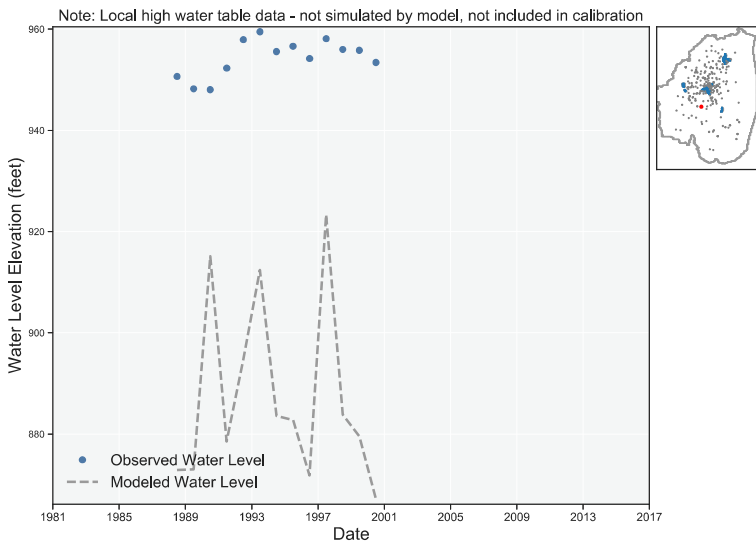
Well 82037 - Aq: QWTA Layers: 4 - 4



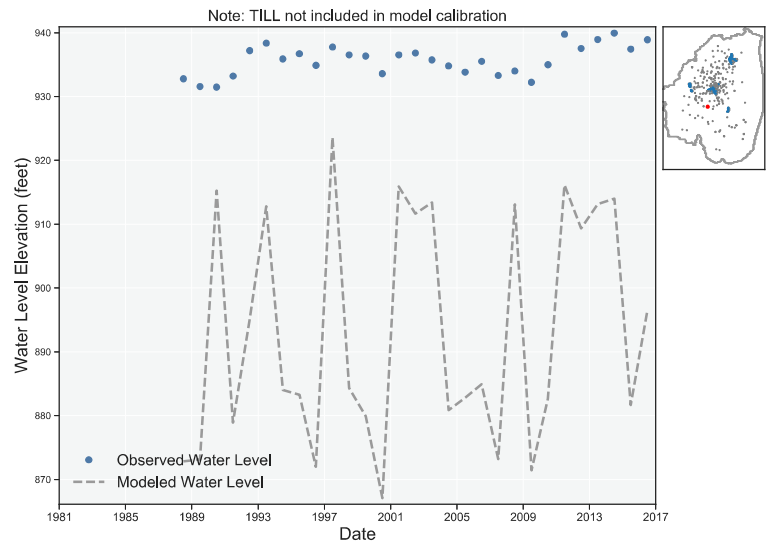
Well 62048 - Aq: QWTA Layers: 4 - 4



Well 62011 - Aq: QBAA Layers: 4 - 4

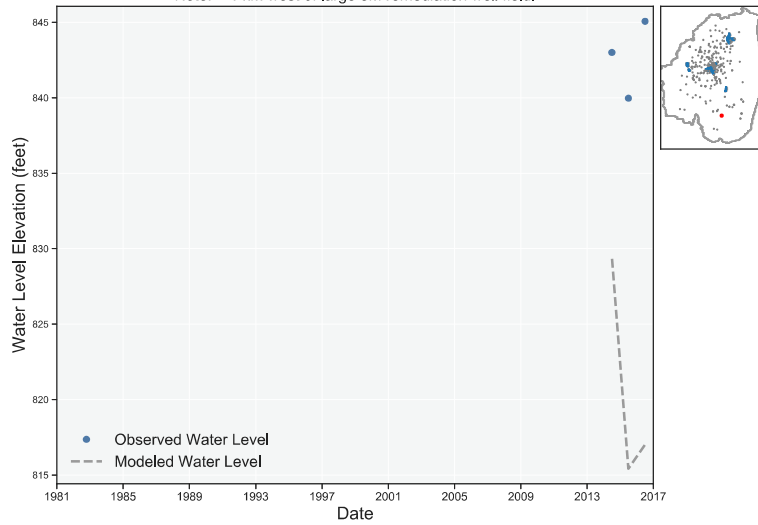


Well 62010 - Aq: TILL Layers: 4 - 4



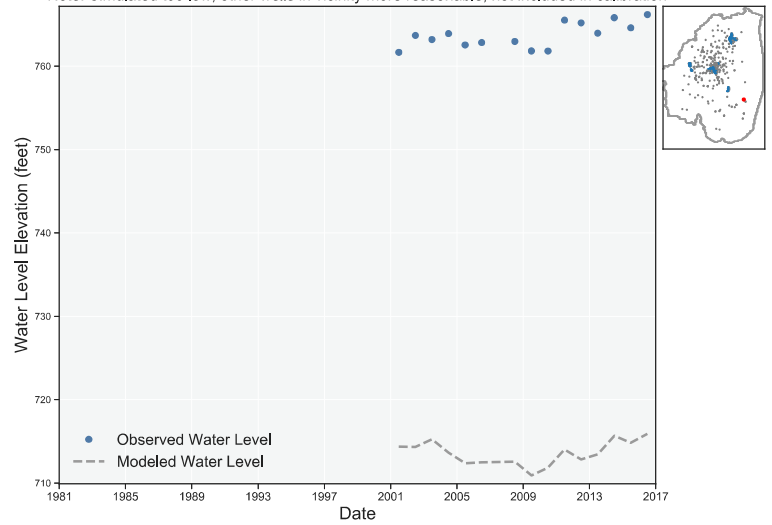
Well 82062 - Aq: QWTA Layers: 4 - 4

Note: < 1 km west of large 3M remediation well field.



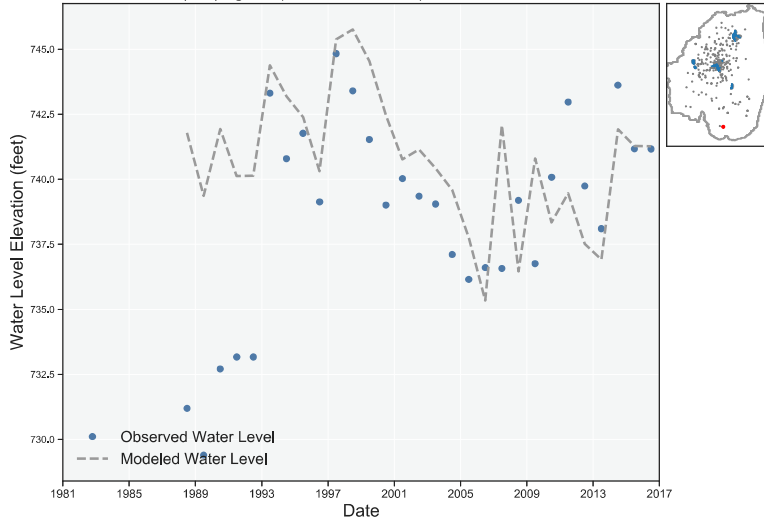
Well 82045 - Aq: CFRNCIGL Layers: 4 - 6

Note: Simulated too low; other wells in vicinity more reasonable, not included in calibration



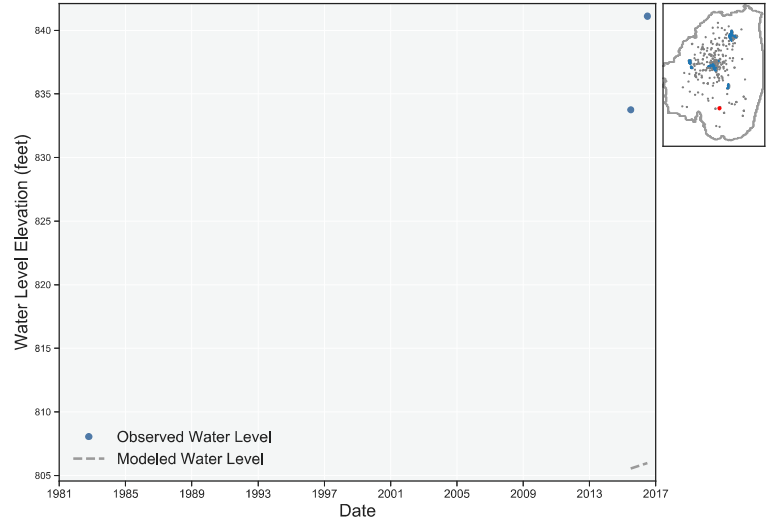
Well 82016 - Aq: OPDCCJDN Layers: 5 - 8

Note: This is a pumping well (1975-6103, 224647). MPARS location is inaccurate.



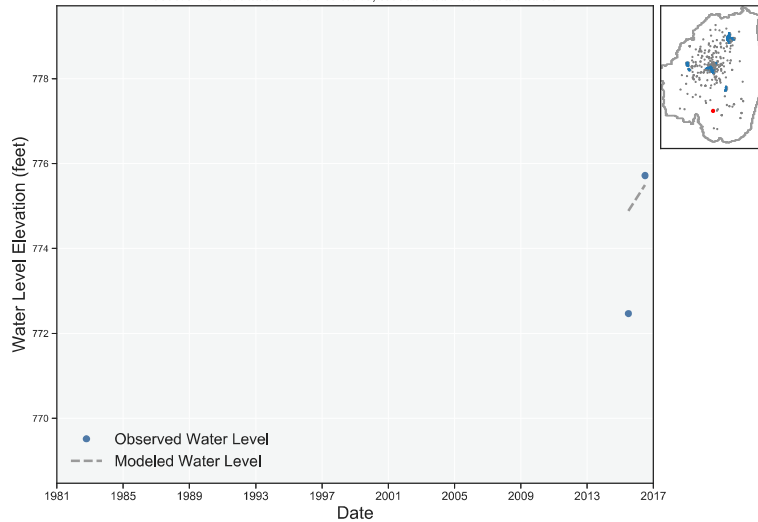
Well 767883 - Aq: OPDC Layers: 6 - 6

Note: Observation close to river, not included in calibration



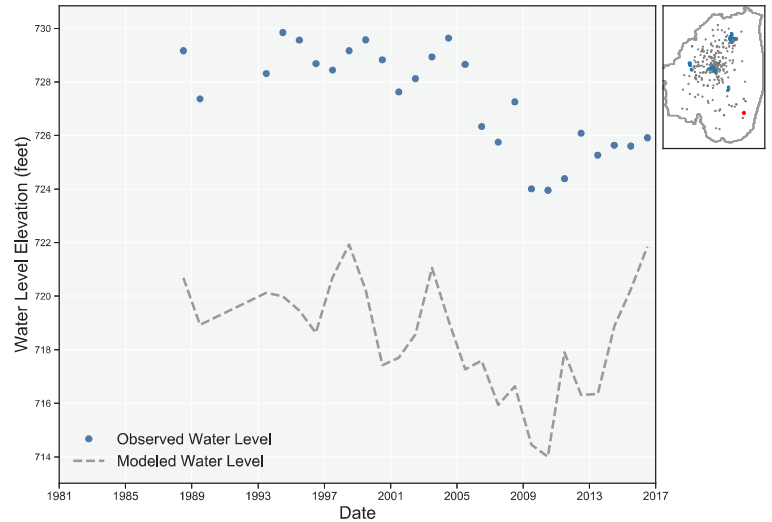
Well 767882 - Aq: OPDC Layers: 6 - 6

Note: Observation close to river, not included in calibration



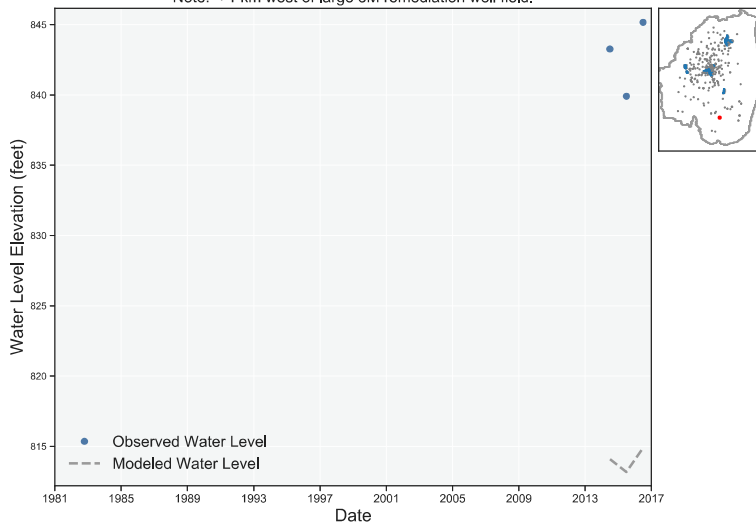
Well 82012 - Aq: CSTL Layers: 6 - 6

Note: Near St. Croix River and faults.



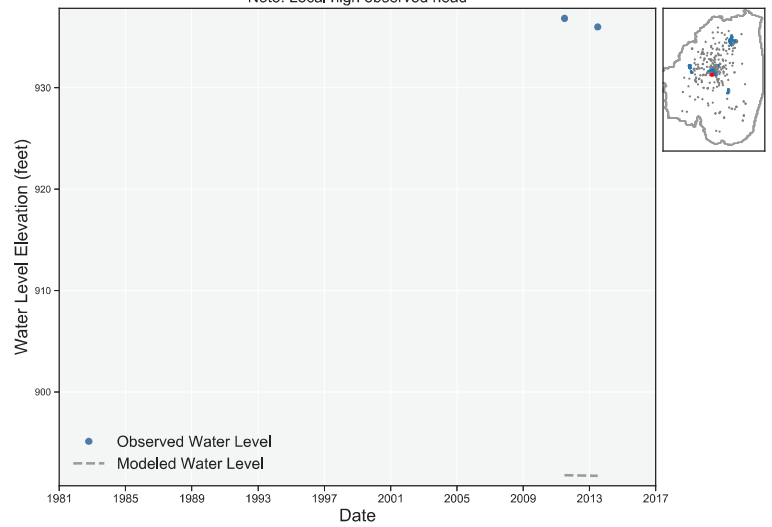
Well 82061 - Aq: OPDC Layers: 6 - 6

Note: < 1 km west of large 3M remediation well field.



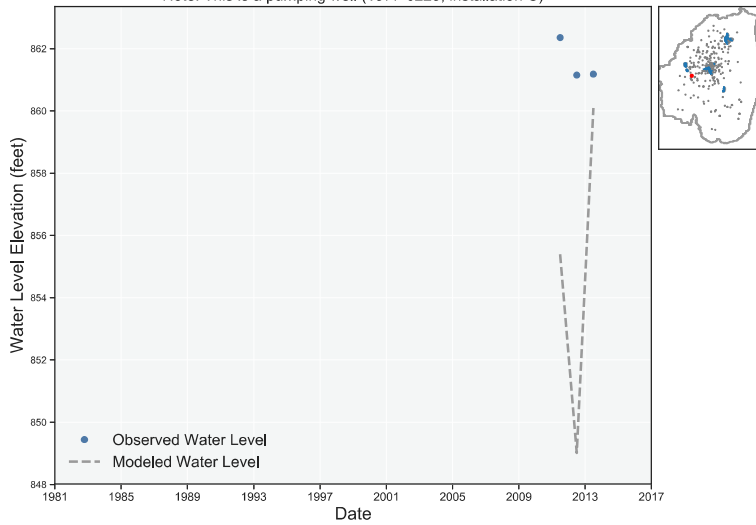
Well 226572 - Aq: OPCJ Layers: 6 - 7

Note: Local high observed head



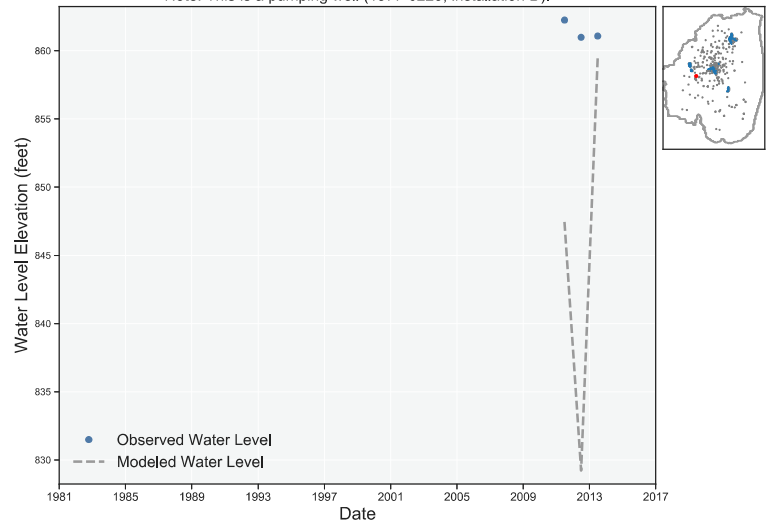
Well 127292 - Aq: OPCJ Layers: 6 - 7

Note: This is a pumping well (1977-6229, installation C)



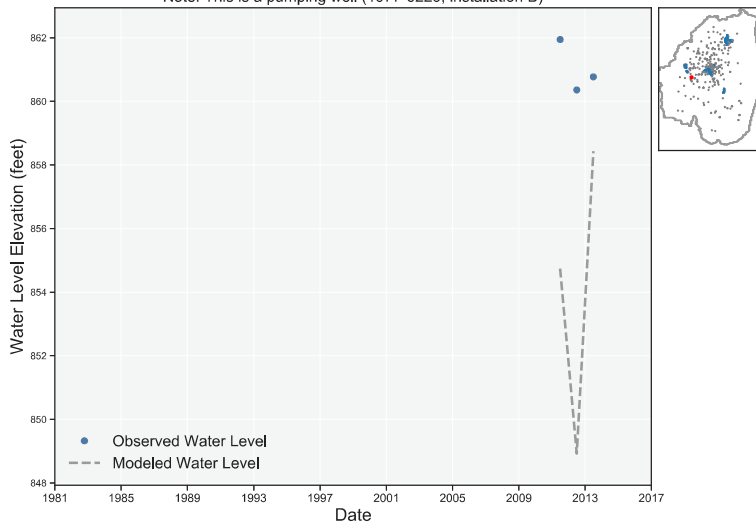
Well 151583 - Aq: OPCJ Layers: 6 - 7

Note: This is a pumping well (1977-6229, installation D).



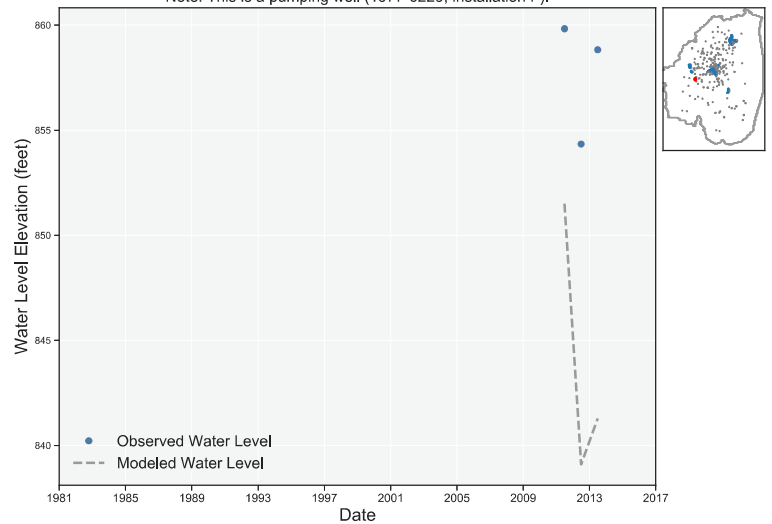
Well 133312 - Aq: OPCJ Layers: 6 - 7

Note: This is a pumping well (1977-6229, installation B)

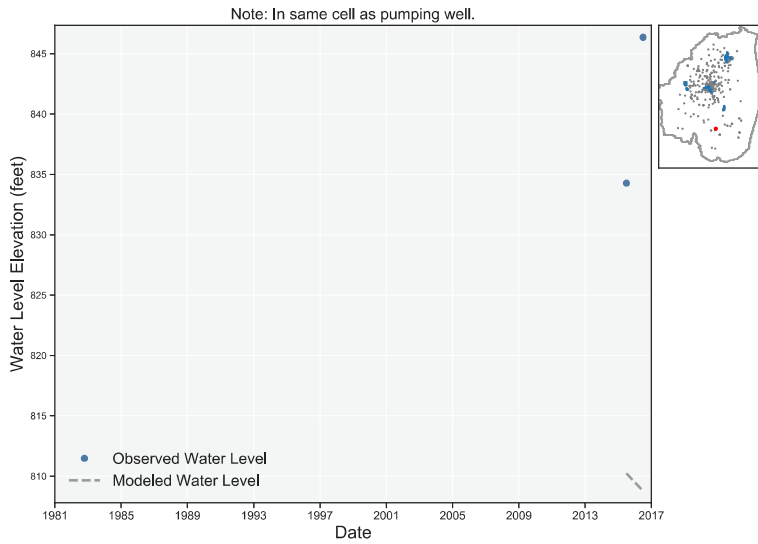


Well 706803 - Aq: OPCJ Layers: 6 - 7

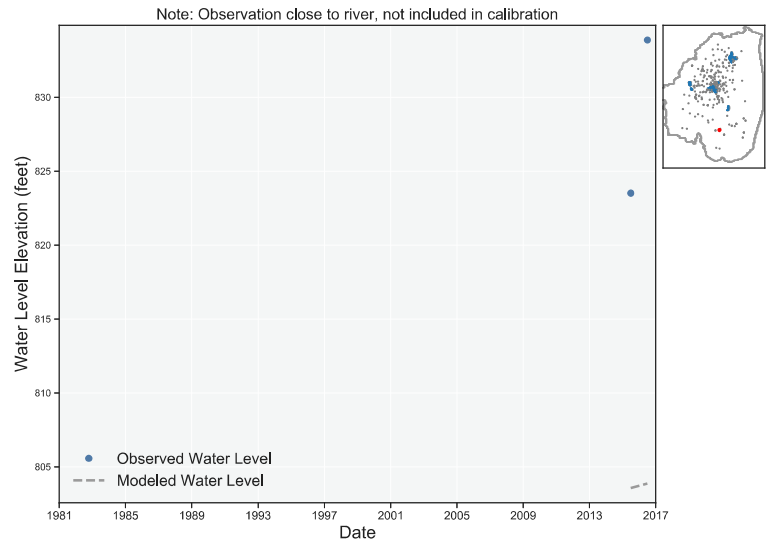
Note: This is a pumping well (1977-6229, installation F).



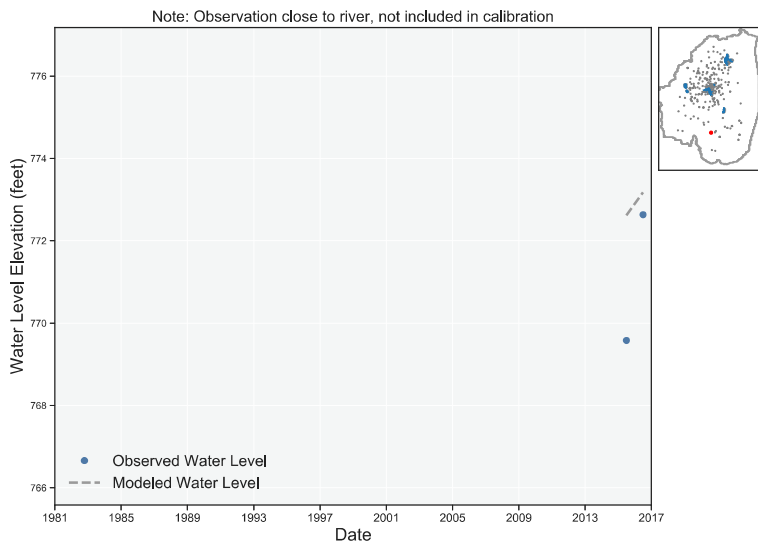
Well 763366 - Aq: CJDN Layers: 7 - 7



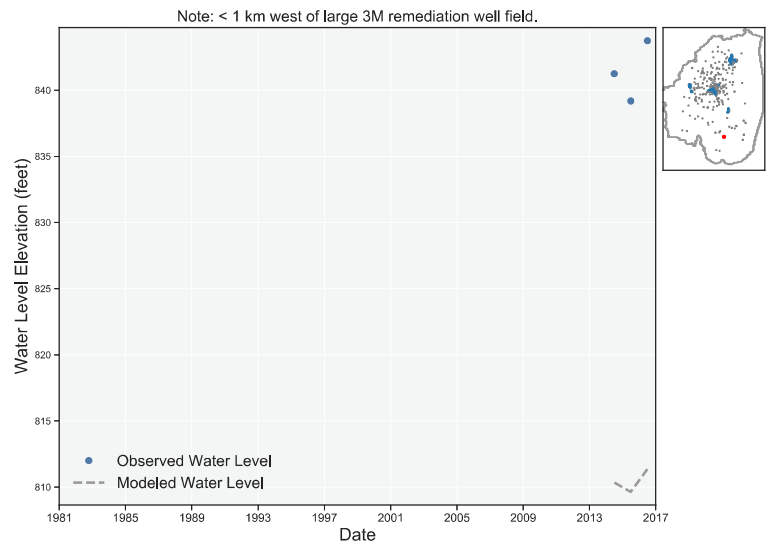
Well 767884 - Aq: CJDN Layers: 7 - 7



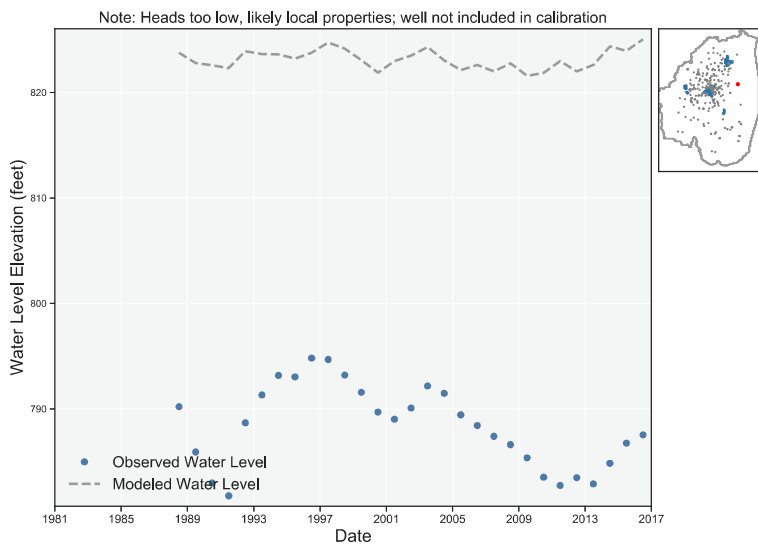
Well 767885 - Aq: CJDN Layers: 7 - 7



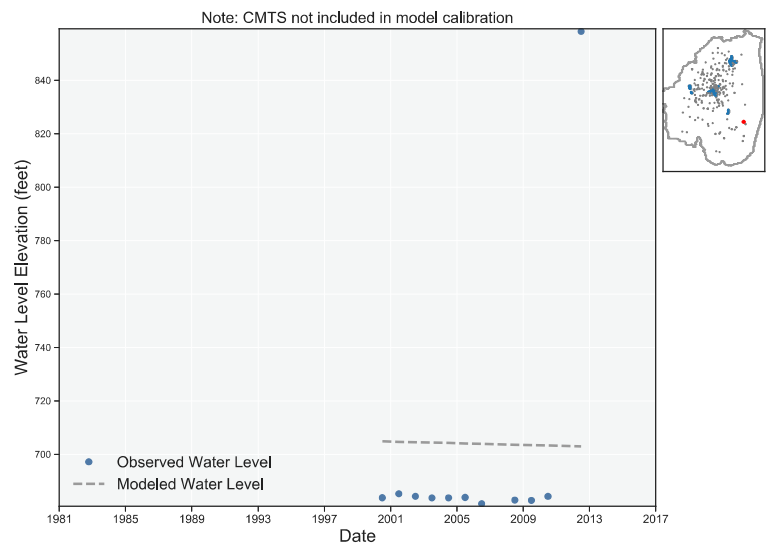
Well 82060 - Aq: CJDN Layers: 7 - 7



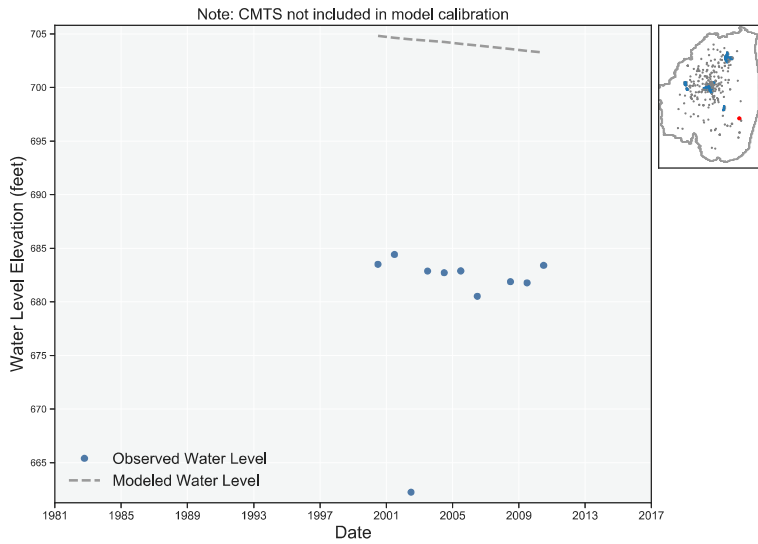
Well 82023 - Aq: QBAA Layers: 8 - 8



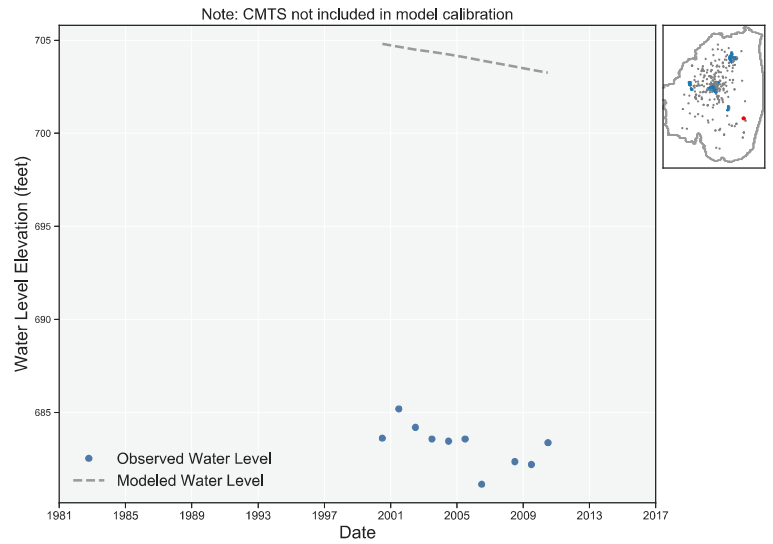
Well 82046 - Aq: CMTS Layers: 9 - 9



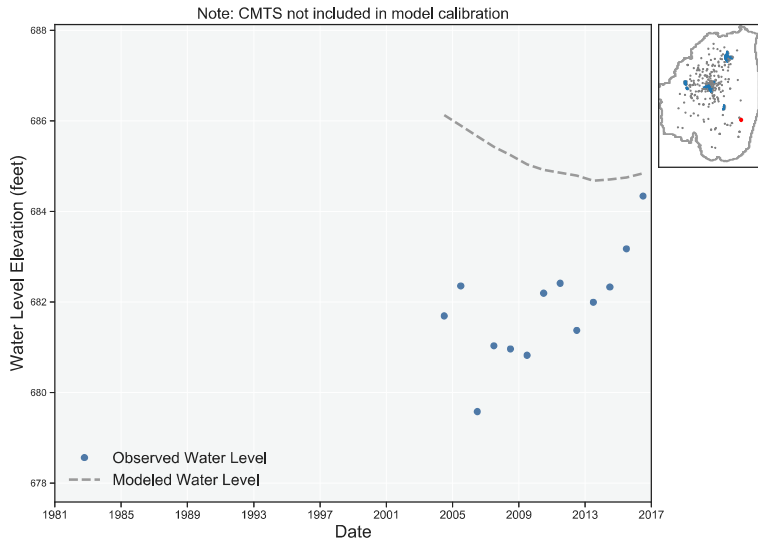
Well 82049 - Aq: CMTS Layers: 9 - 9



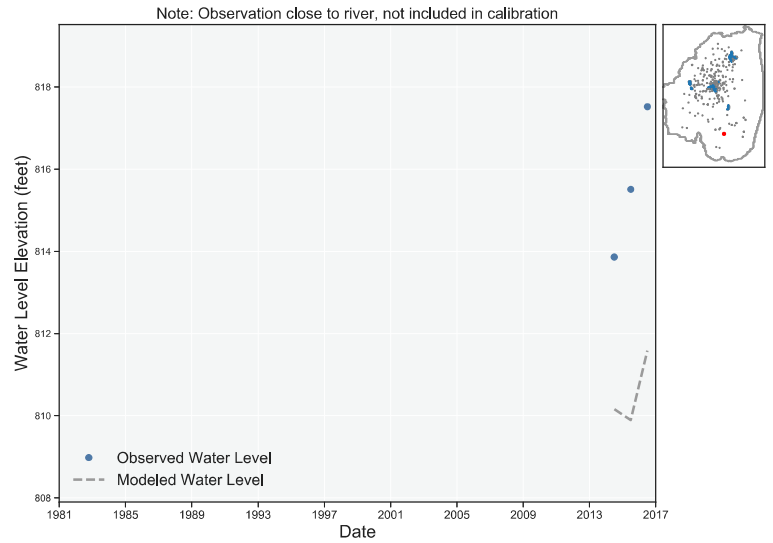
Well 82050 - Aq: CMTS Layers: 9 - 9



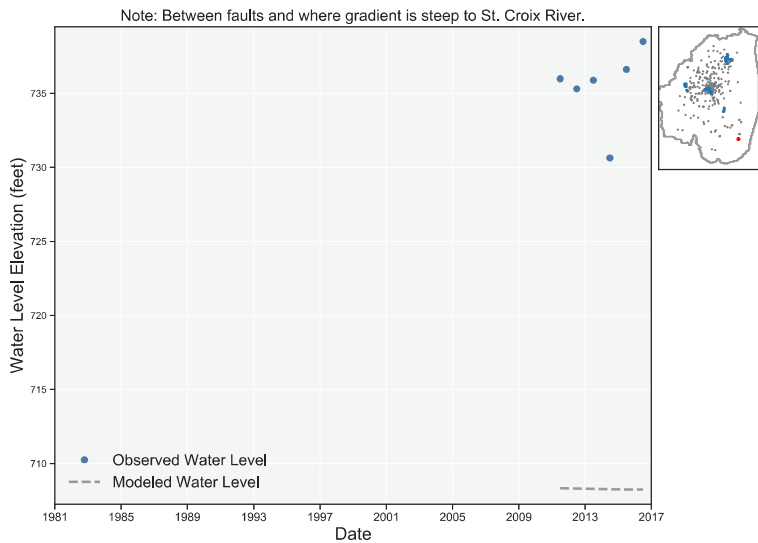
Well 82051 - Aq: CECRCMTS Layers: 9 - 9



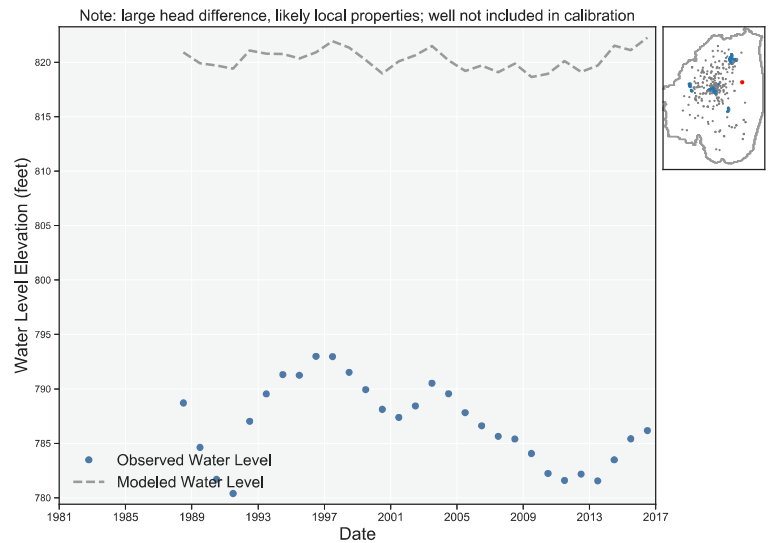
Well 82059 - Aq: CTCG Layers: 9 - 9



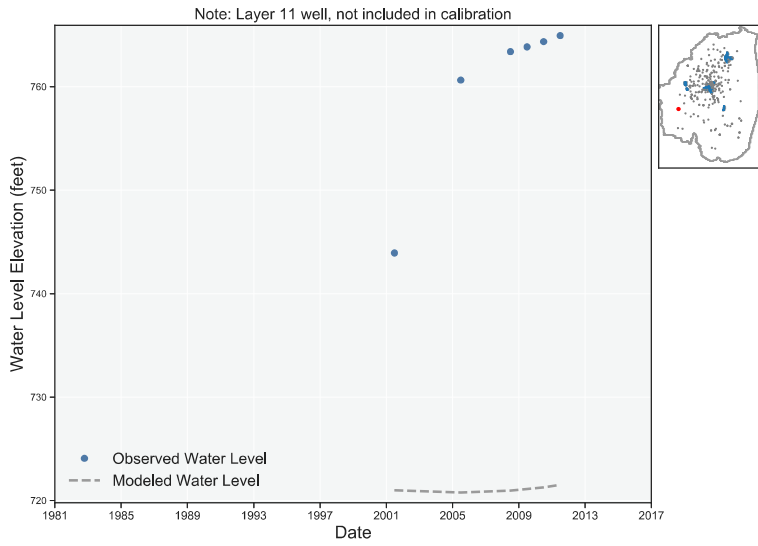
Well 82054 - Aq: CFG Layers: 9 - 9



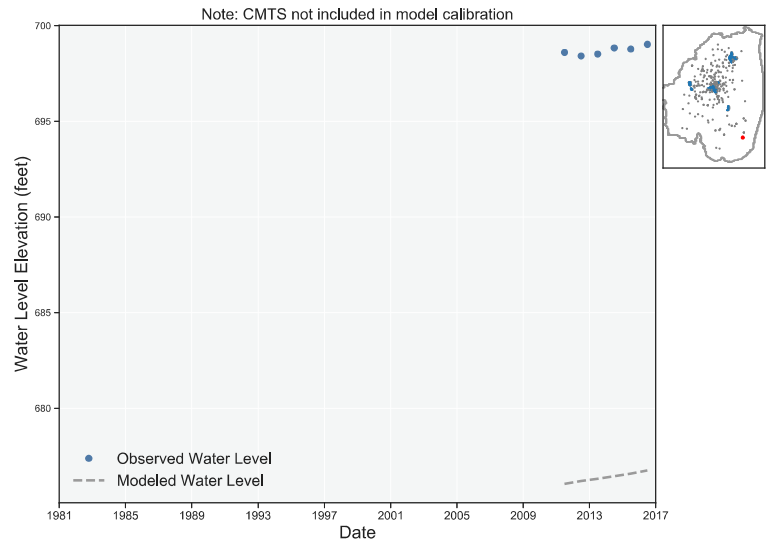
Well 82022 - Aq: CFRNCIGL Layers: 9 - 10



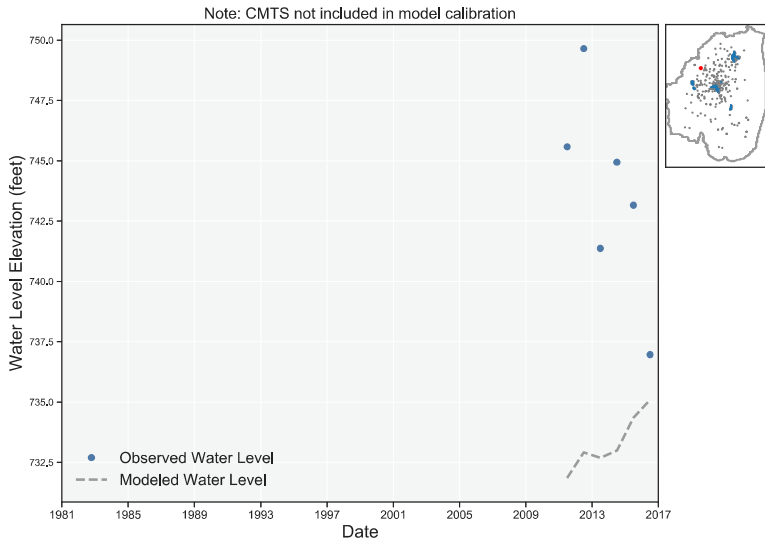
Well 62042 - Aq: CECR Layers: 11 - 11



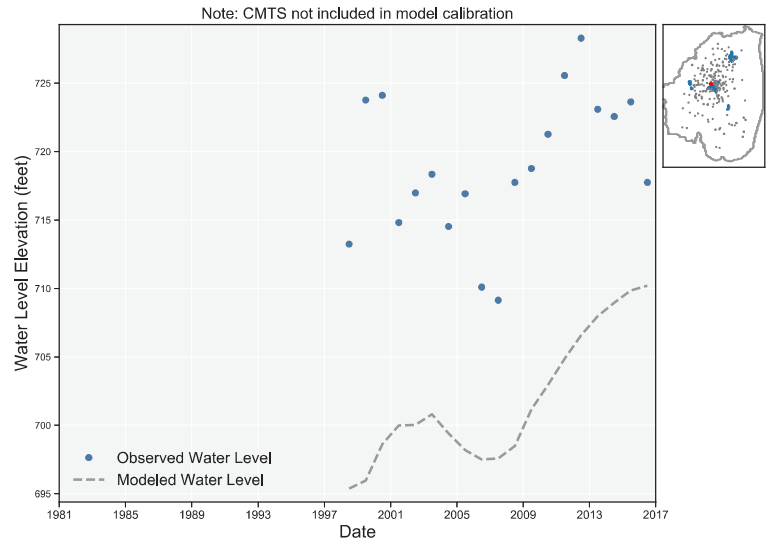
Well 82053 - Aq: CMTS Layers: 11 - 12



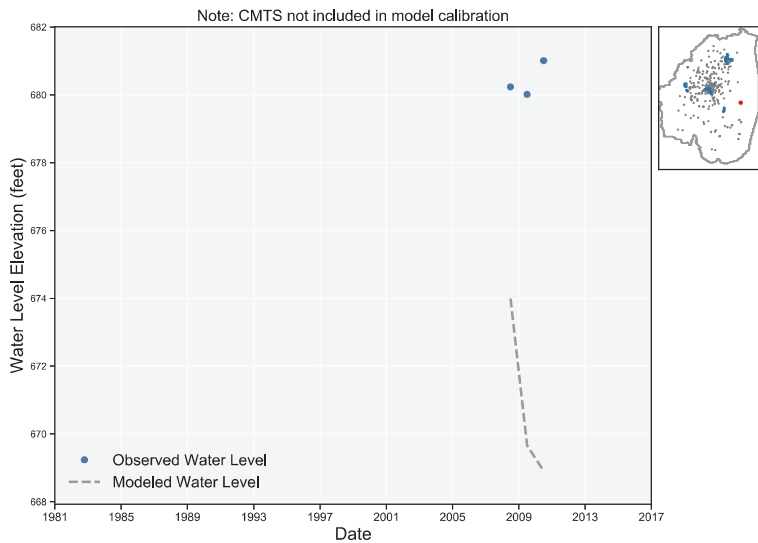
Well 2038 - Aq: CMTS Layers: 12 - 12



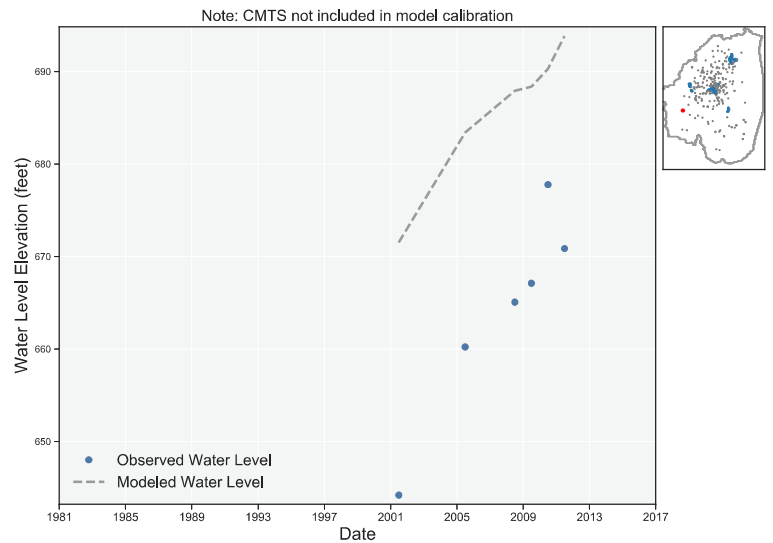
Well 62046 - Aq: CMTS Layers: 12 - 12



Well 82052 - Aq: CMTS Layers: 12 - 12

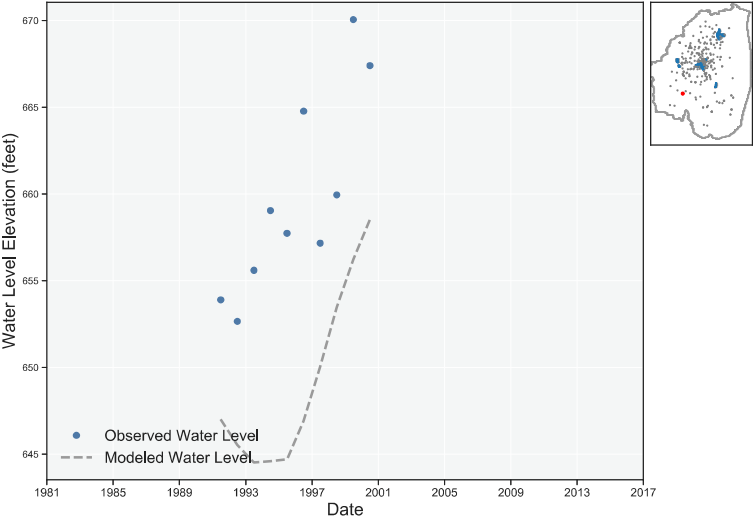


Well 62043 - Aq: CMTS Layers: 12 - 12



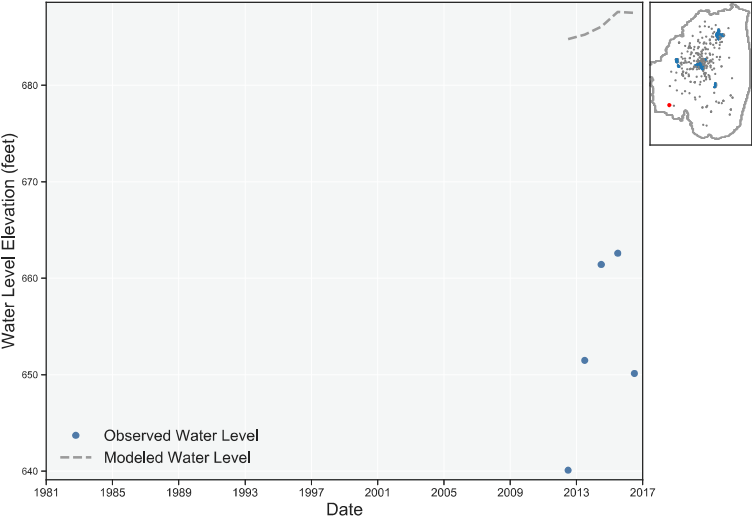
Well 62036 - Aq: CMTS Layers: 12 - 12

Note: CMTS not included in model calibration



Well 27069 - Aq: CMTS Layers: 12 - 12

Note: CMTS not included in model calibration



Well 82056 - Aq: CMTS Layers: 12 - 12

Note: CMTS not included in calibration

