

# Appendix G

## **Groundwater Hydrographs**

# List of Figures

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Figure 1. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well a12_if	5
Figure 2. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well a12_in	6
Figure 3. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well a12_rf	7
Figure 4. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well a12_rn	8
Figure 5. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well a28_if	9
Figure 6. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well a28_in	10
Figure 7. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well a28_rf	11
Figure 8. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well a28_rn	12
Figure 9. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well bigwel	13
Figure 10. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well bullwl	14
Figure 11. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_10	15
Figure 12. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_11	16
Figure 13. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_13	17
Figure 14. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_14	18
Figure 15. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_16	19
Figure 16. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_17	20
Figure 17. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_19	21
Figure 18. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_20	22
Figure 19. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_21	23
Figure 20. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_22	24
Figure 21. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_23	25
Figure 22. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_24	26
Figure 23. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_25	27
Figure 24. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_26	28
Figure 25. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_27	29
Figure 26. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_28	30
Figure 27. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_29	31
Figure 28. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_30	32
Figure 29. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_31	33
Figure 30. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_32	34
Figure 31. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_34	35

## List of Figures (continued)

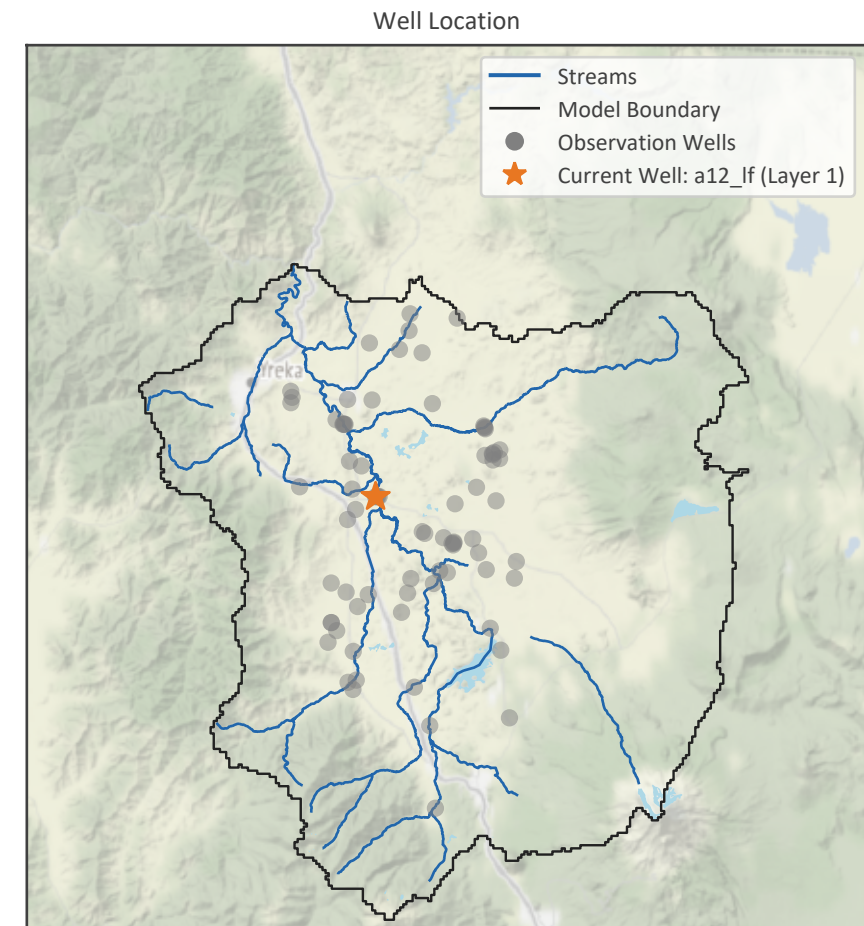
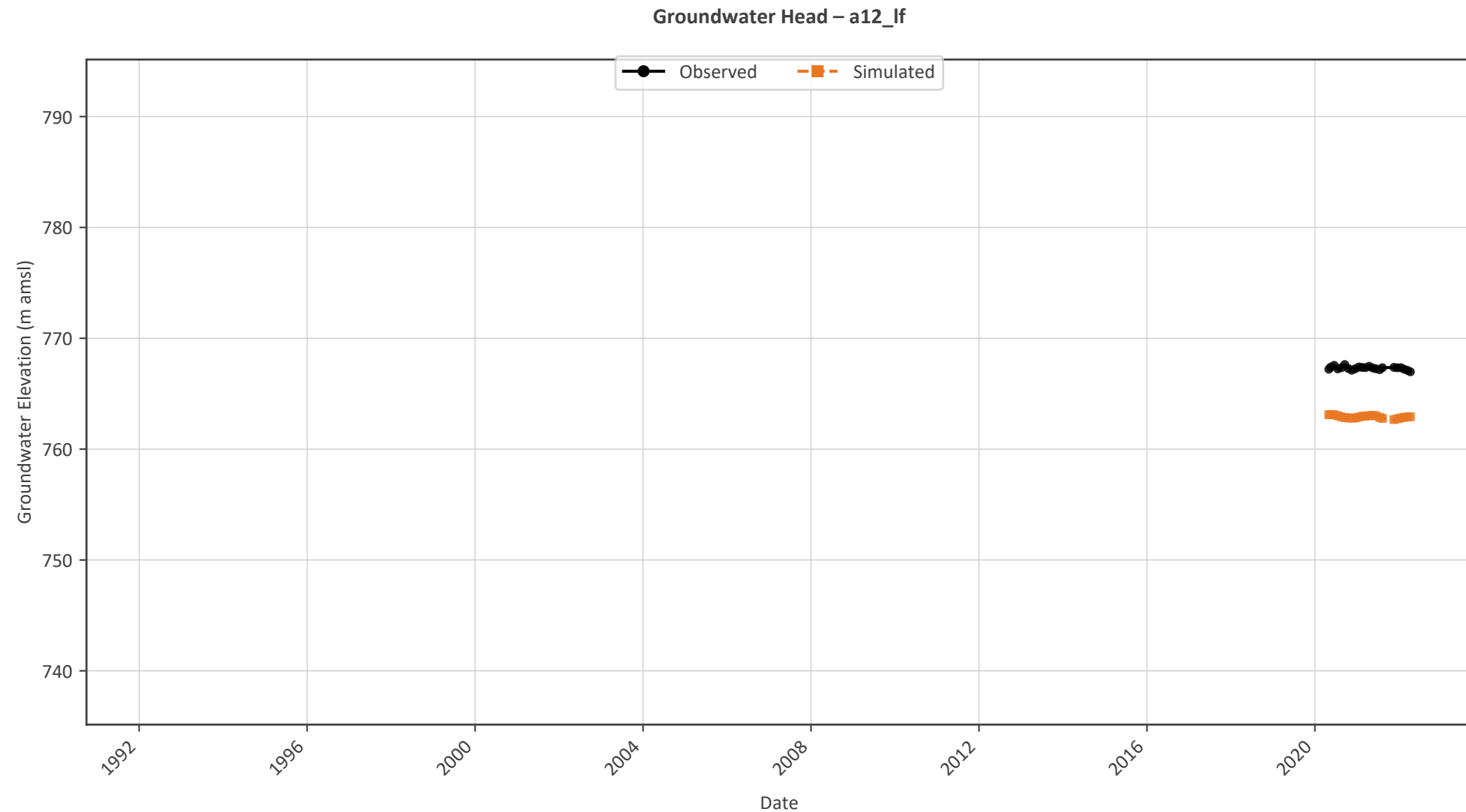
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Figure 32. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_35	36
Figure 33. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_36	37
Figure 34. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_37	38
Figure 35. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_41	39
Figure 36. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_42	40
Figure 37. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_43	41
Figure 38. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_46	42
Figure 39. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_82	43
Figure 40. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well c_85	44
Figure 41. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well cfltwl	45
Figure 42. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well crrlwl	46
Figure 43. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well evnswl	47
Figure 44. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well ll_lbf	48
Figure 45. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well ll_lbn	49
Figure 46. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well ll_rbf	50
Figure 47. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well ll_rbn	51
Figure 48. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sh_172	52
Figure 49. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sh_174	53
Figure 50. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sh_180	54
Figure 51. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sh_187	55
Figure 52. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sh_193	56
Figure 53. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sh_787	57
Figure 54. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sh_887	58
Figure 55. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sha_01	59
Figure 56. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sha_02	60
Figure 57. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sha_03	61
Figure 58. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sha_04	62
Figure 59. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sha_05	63
Figure 60. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sha_06	64
Figure 61. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sha_08	65
Figure 62. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sha_09	66

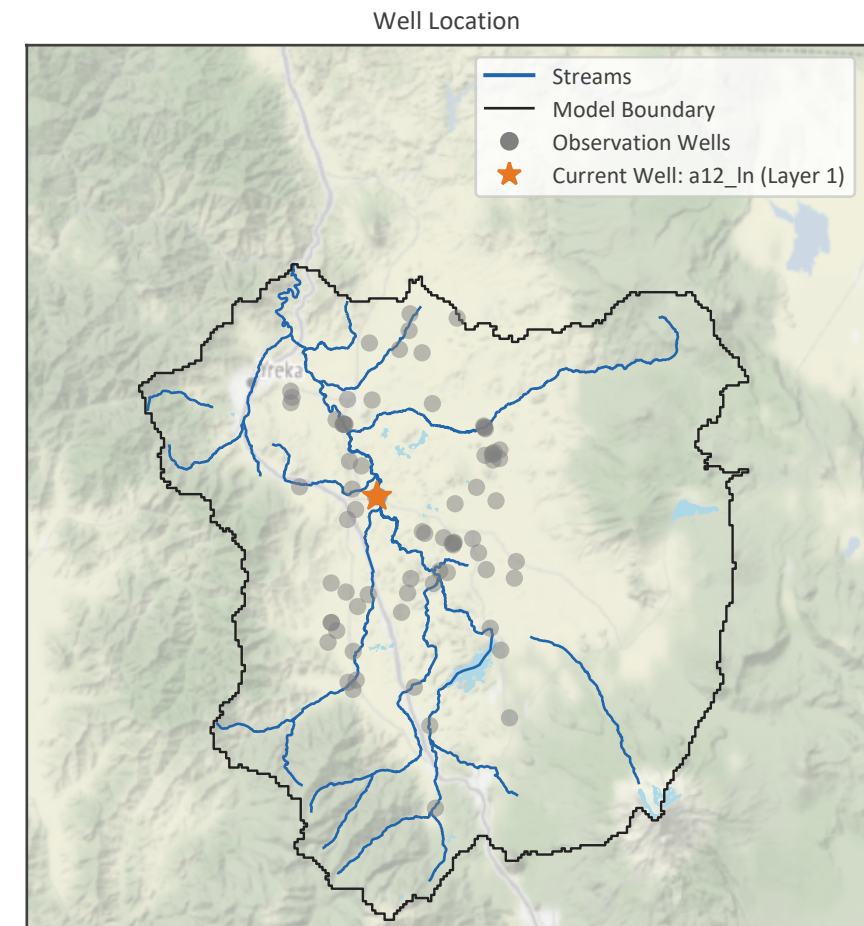
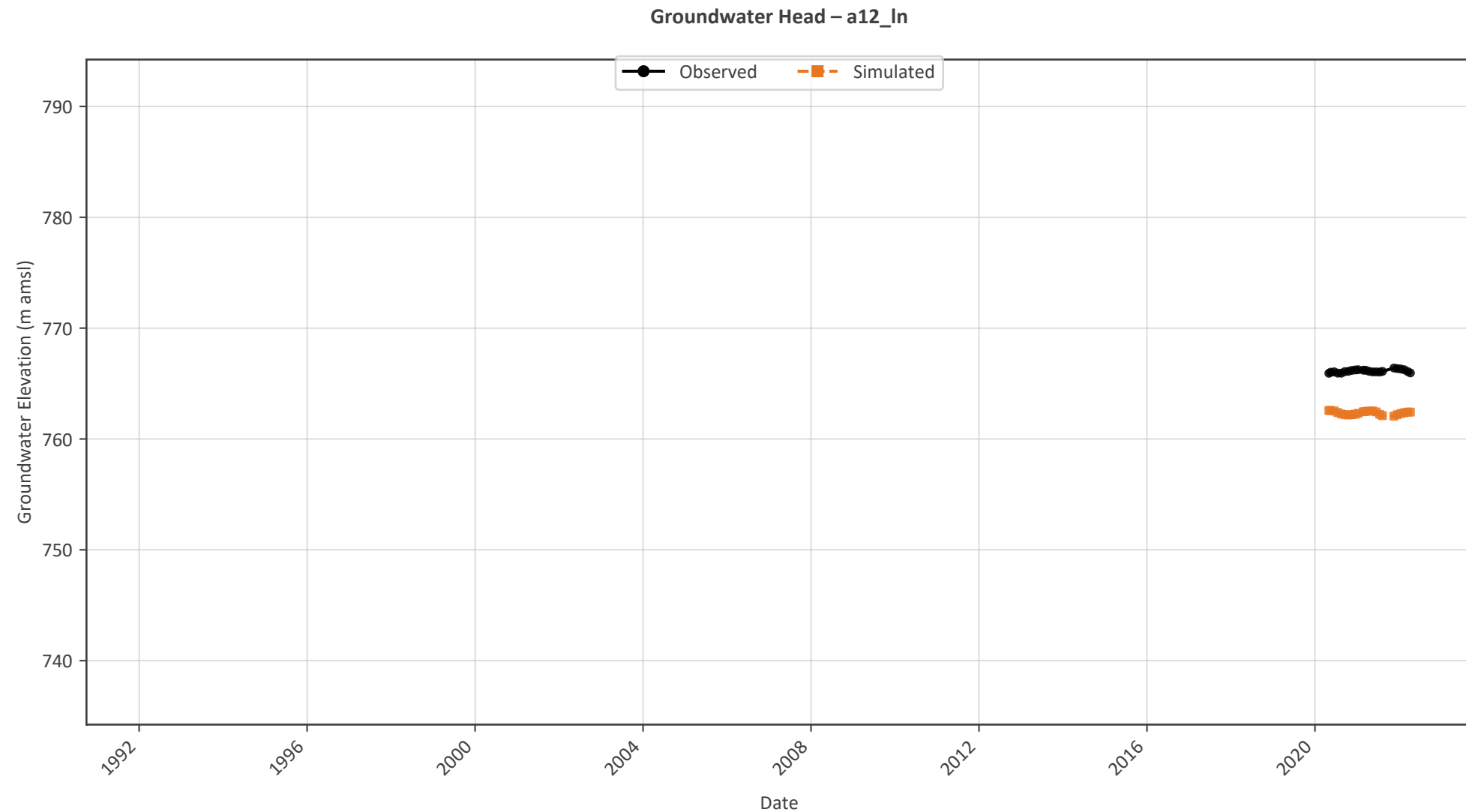
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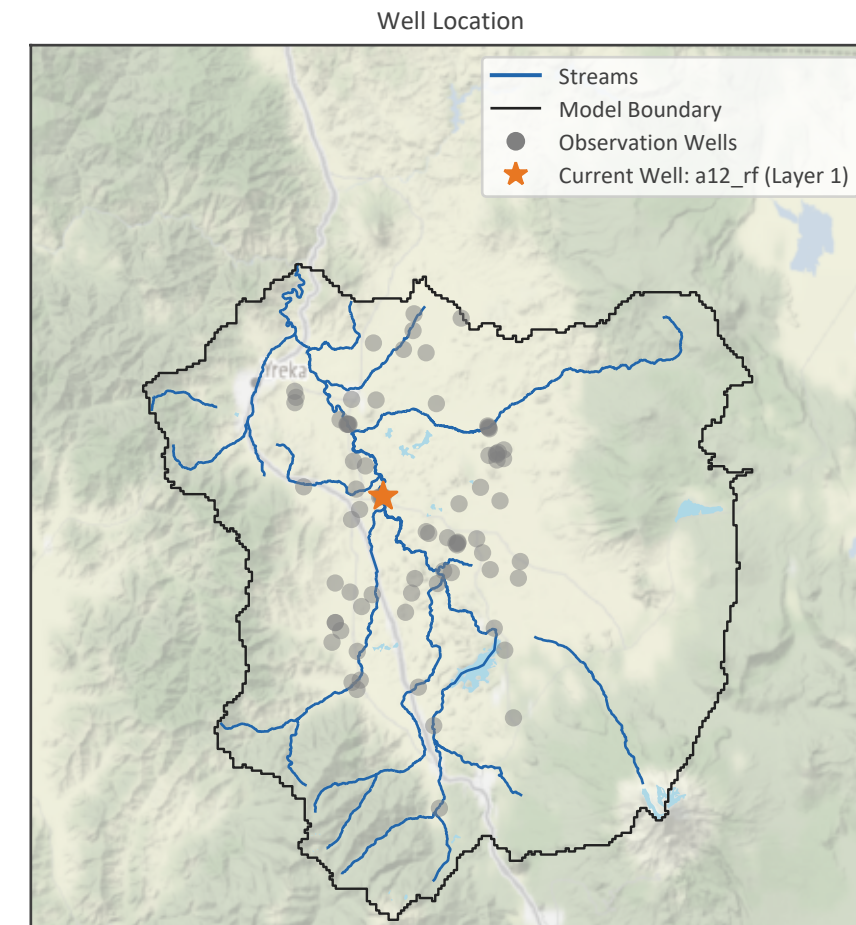
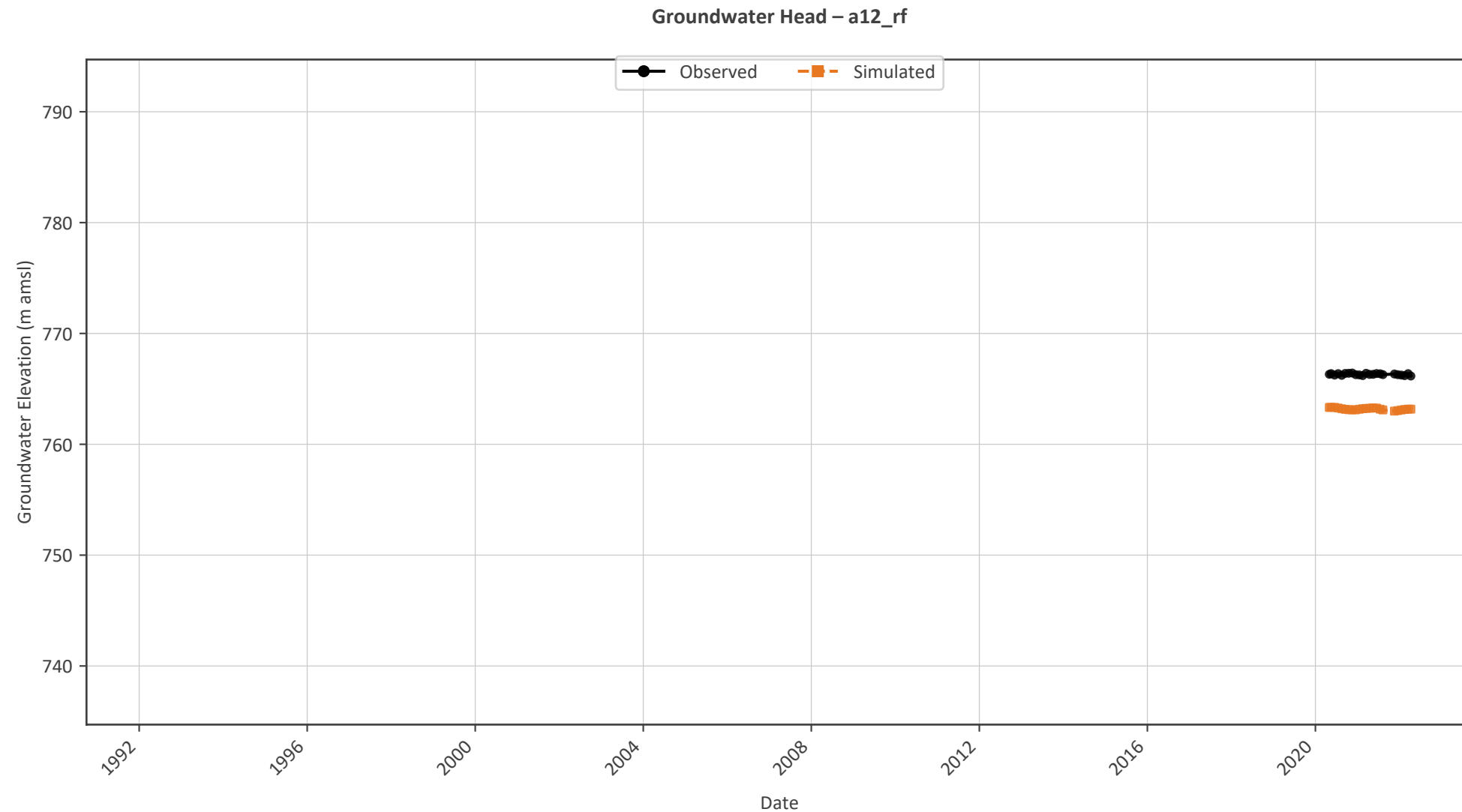
Figure 63. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sha_10	67
Figure 64. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sha_11	68
Figure 65. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sha_17	69
Figure 66. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well sha_18	70
Figure 67. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well shopwl	71
Figure 68. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well tnc_04	72
Figure 69. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well tnc_05	73
Figure 70. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well tnc_06	74
Figure 71. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well tnc_07	75
Figure 72. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well tnc_08	76
Figure 73. Groundwater Hydrograph – Observed and Simulated Groundwater Elevations for Well tnc_10	77



**Figure 1. Groundwater head calibration hydrograph and well location map for observation well a12\_If (Model Layer 1). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

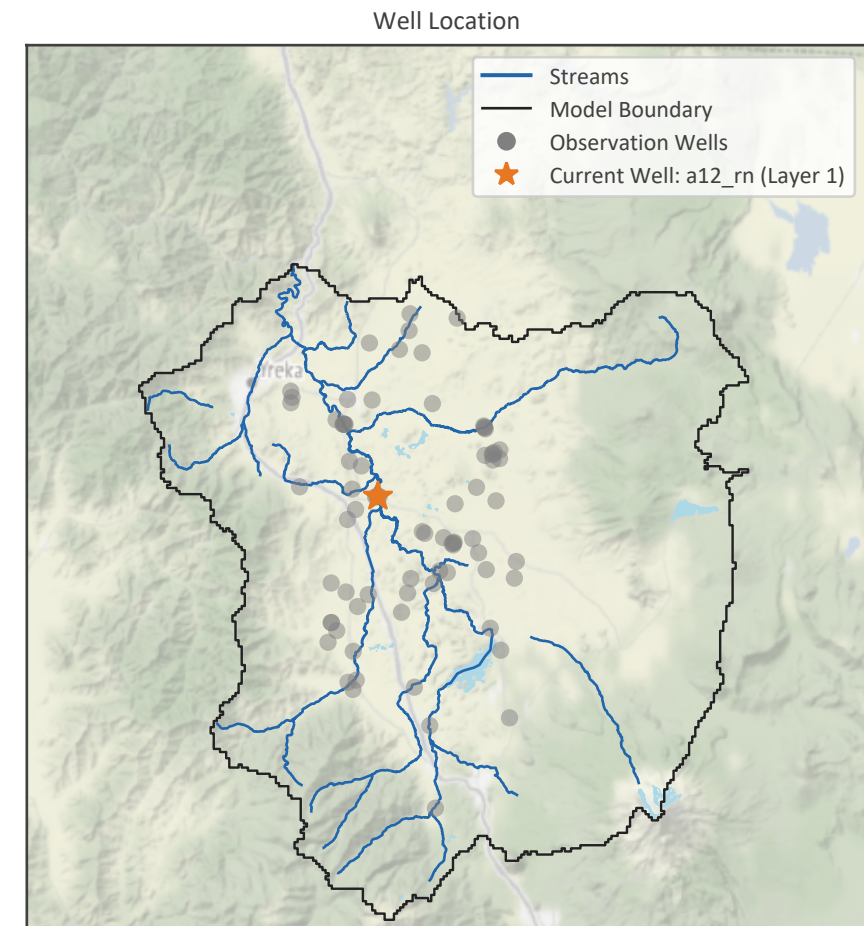
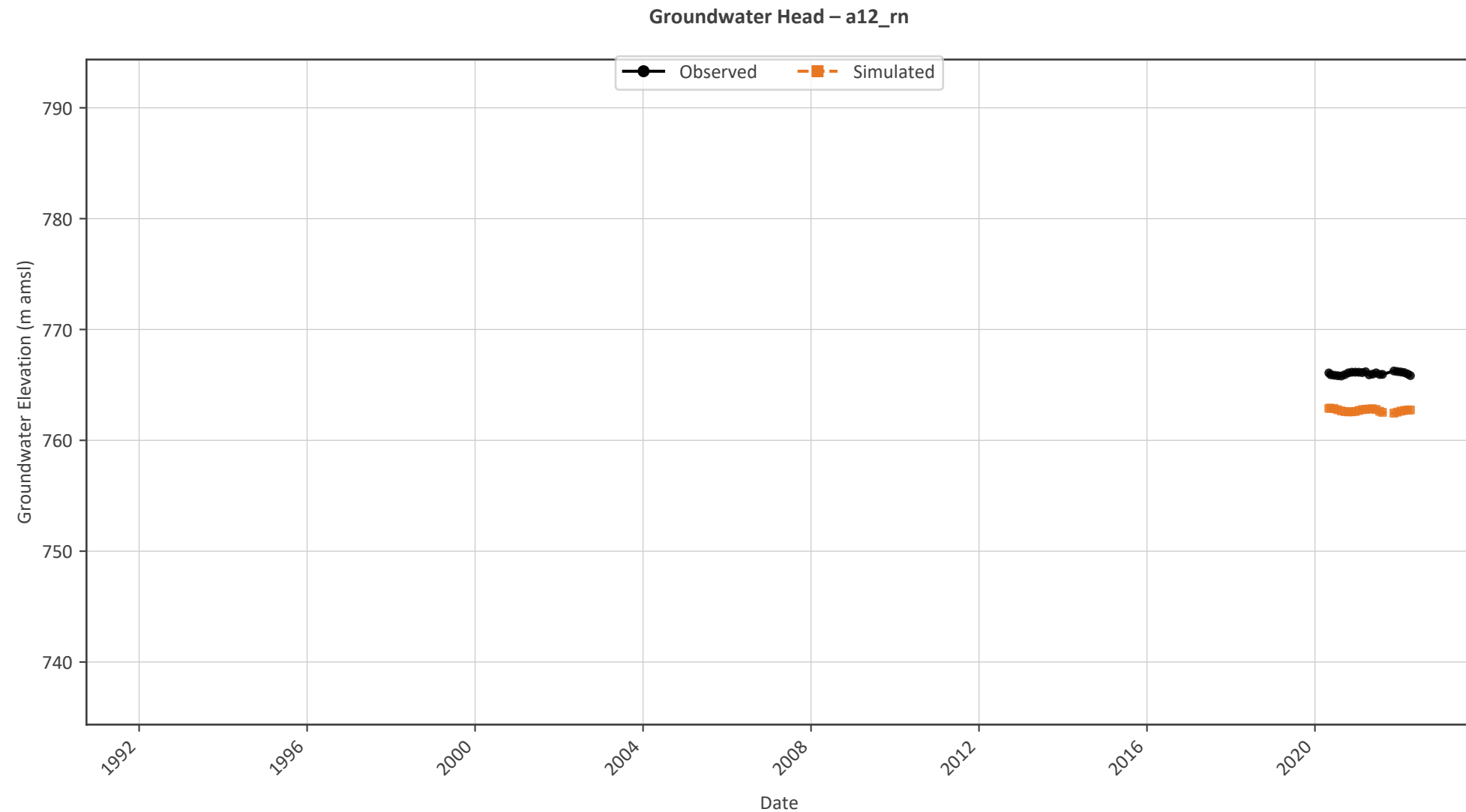


**Figure 2. Groundwater head calibration hydrograph and well location map for observation well a12\_In (Model Layer 1). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



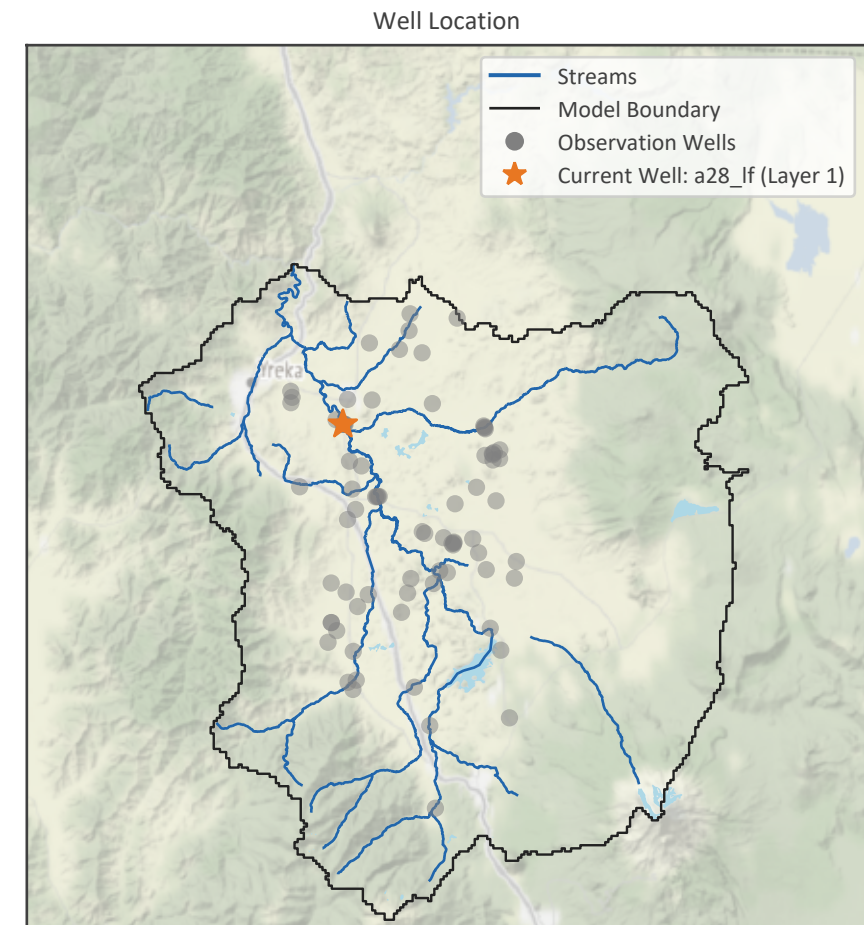
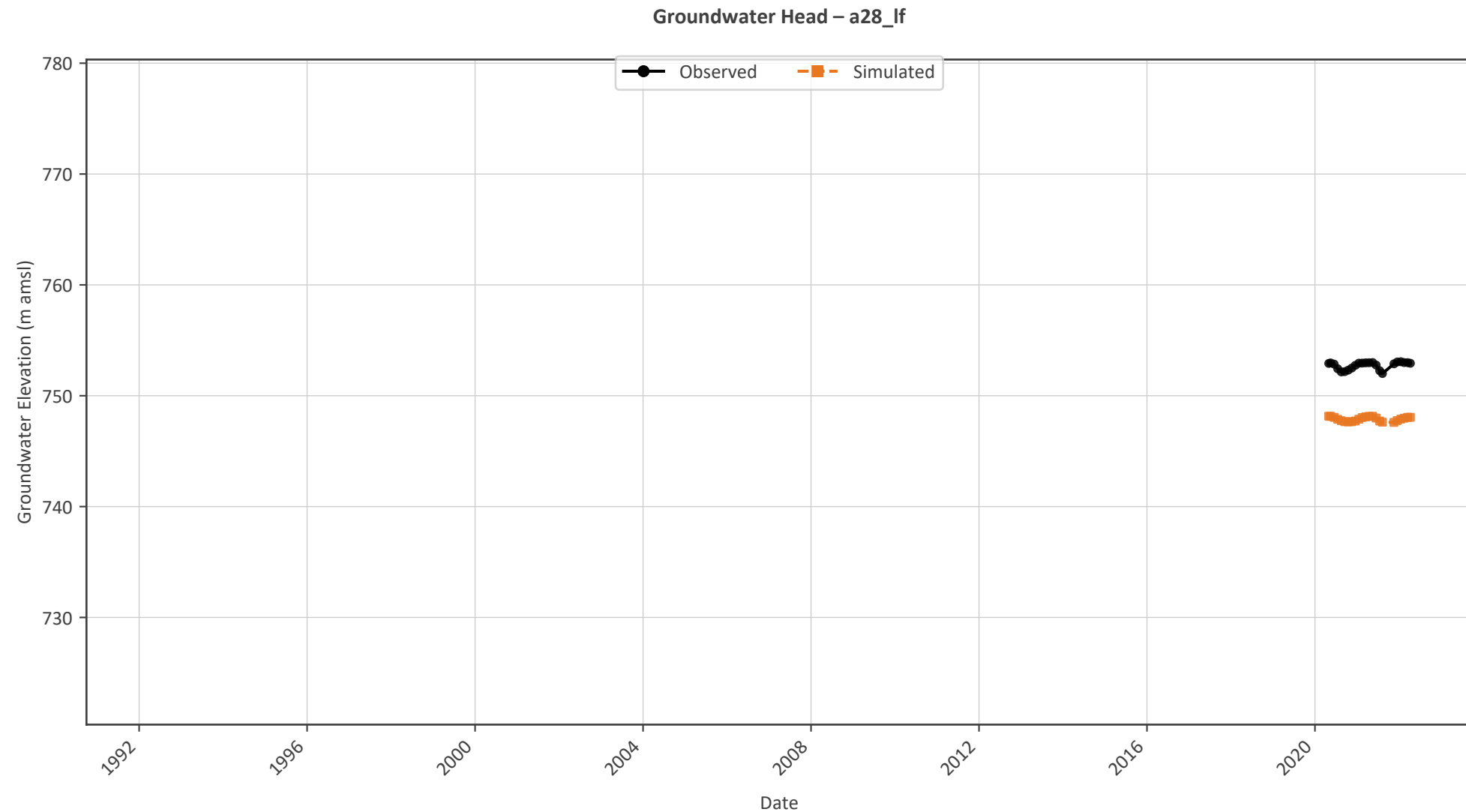
**Figure 3. Groundwater head calibration hydrograph and well location map for observation well a12\_rf (Model Layer 1). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



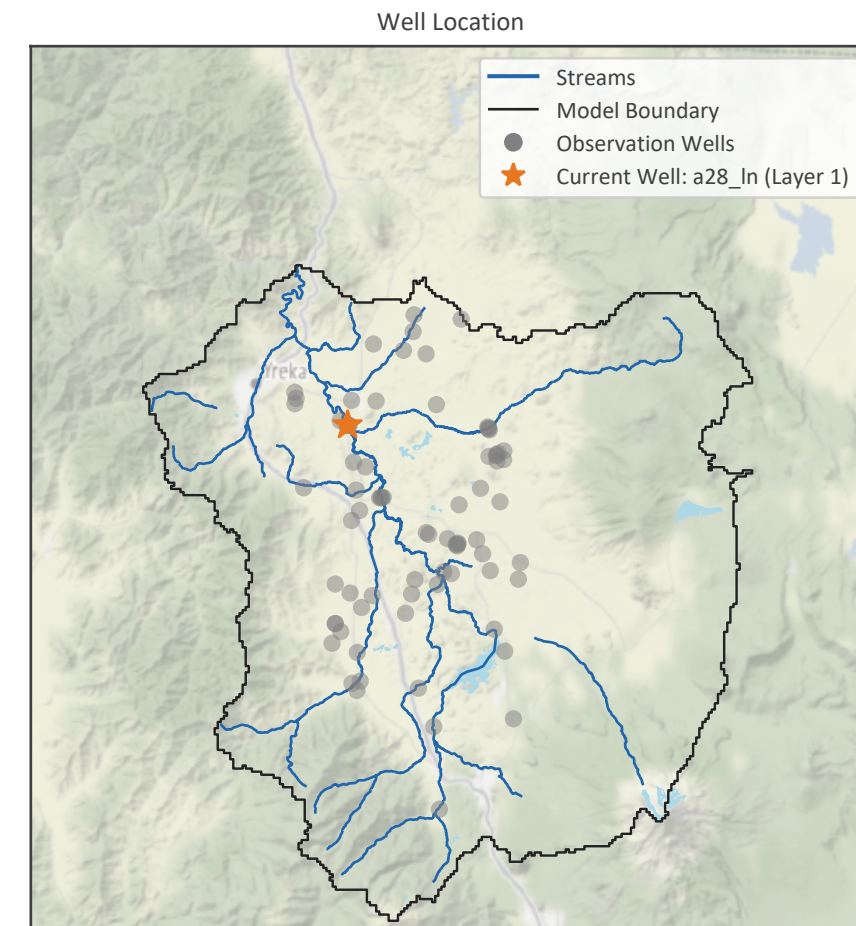
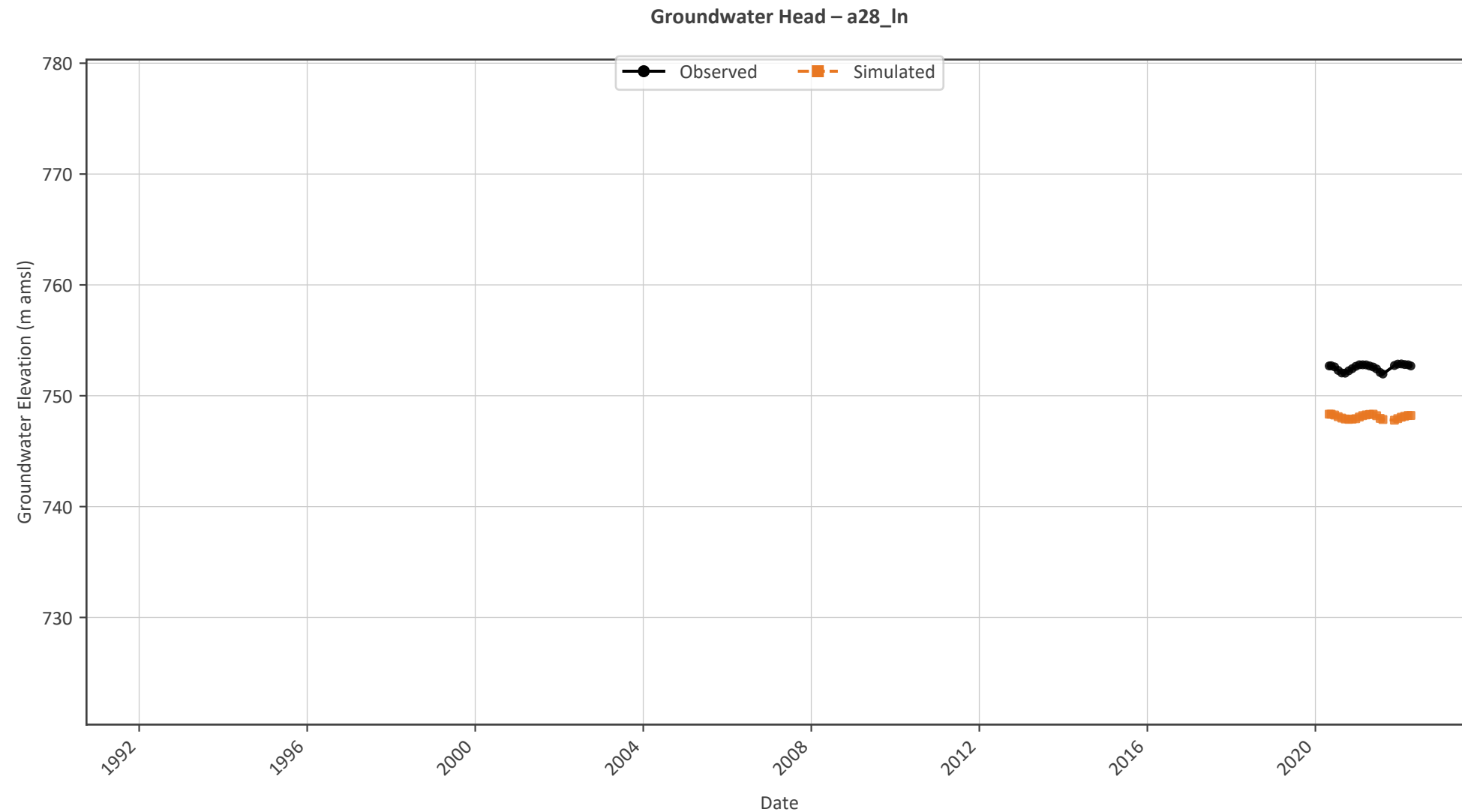


**Figure 4. Groundwater head calibration hydrograph and well location map for observation well a12\_rn (Model Layer 1). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

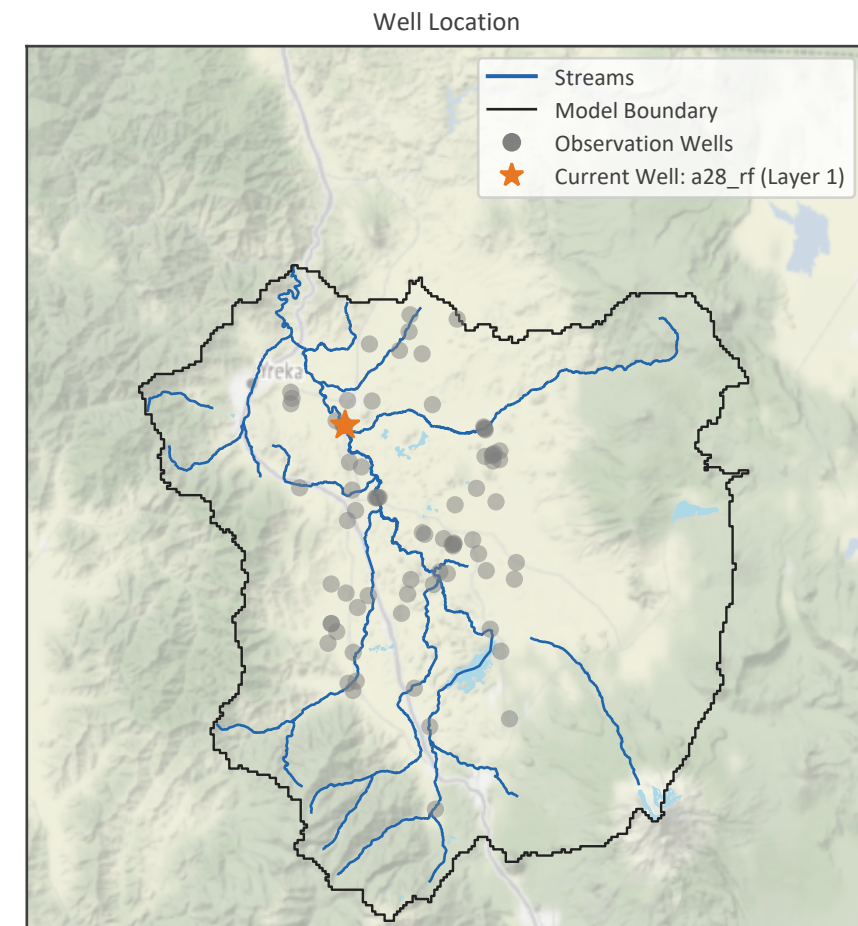
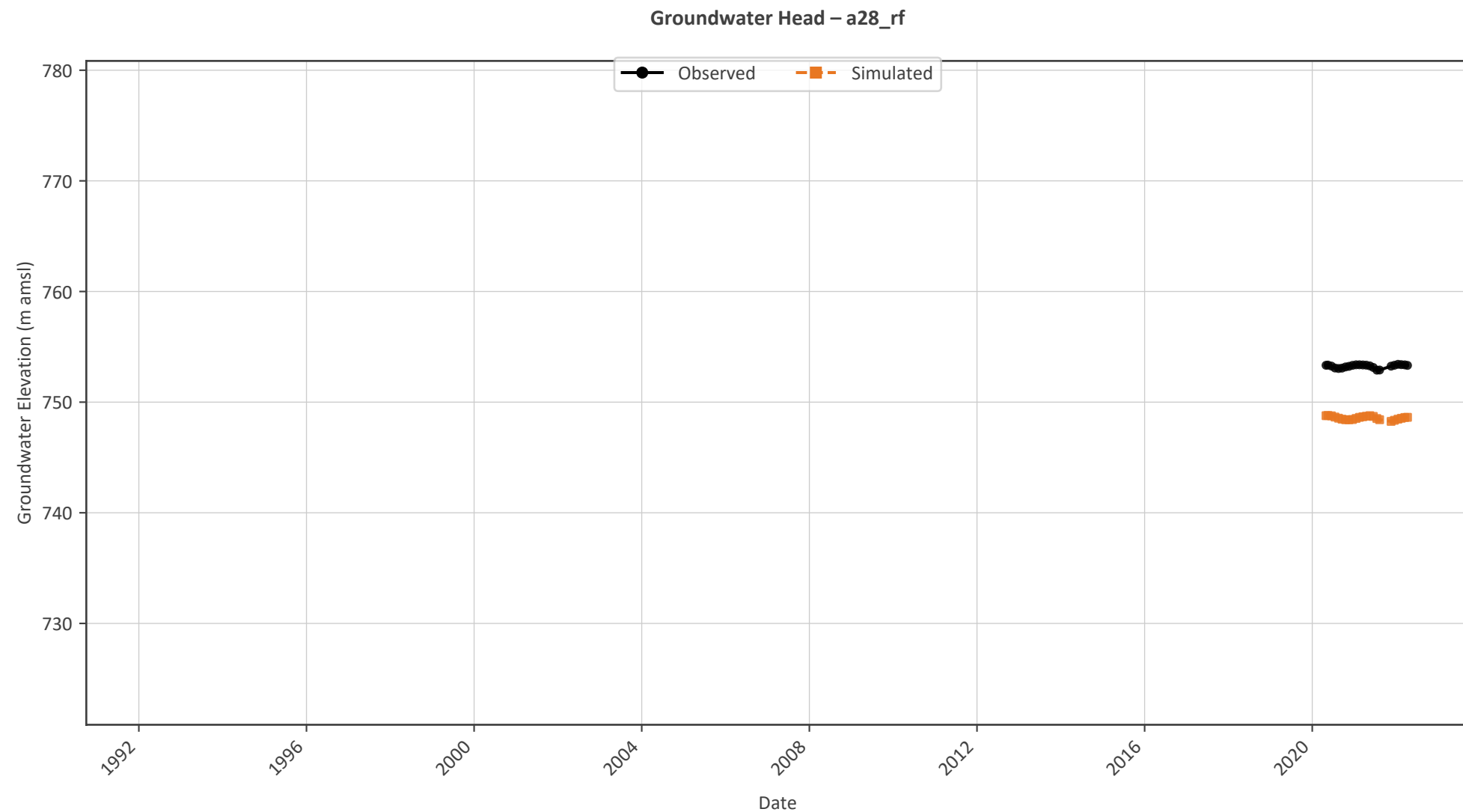




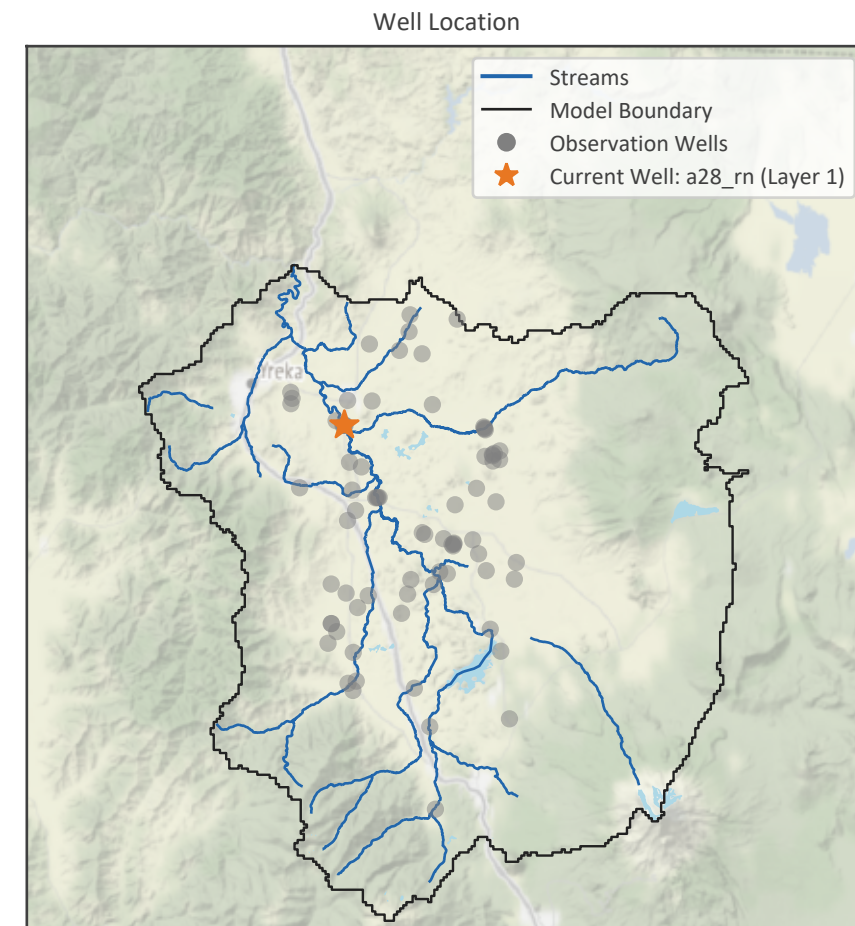
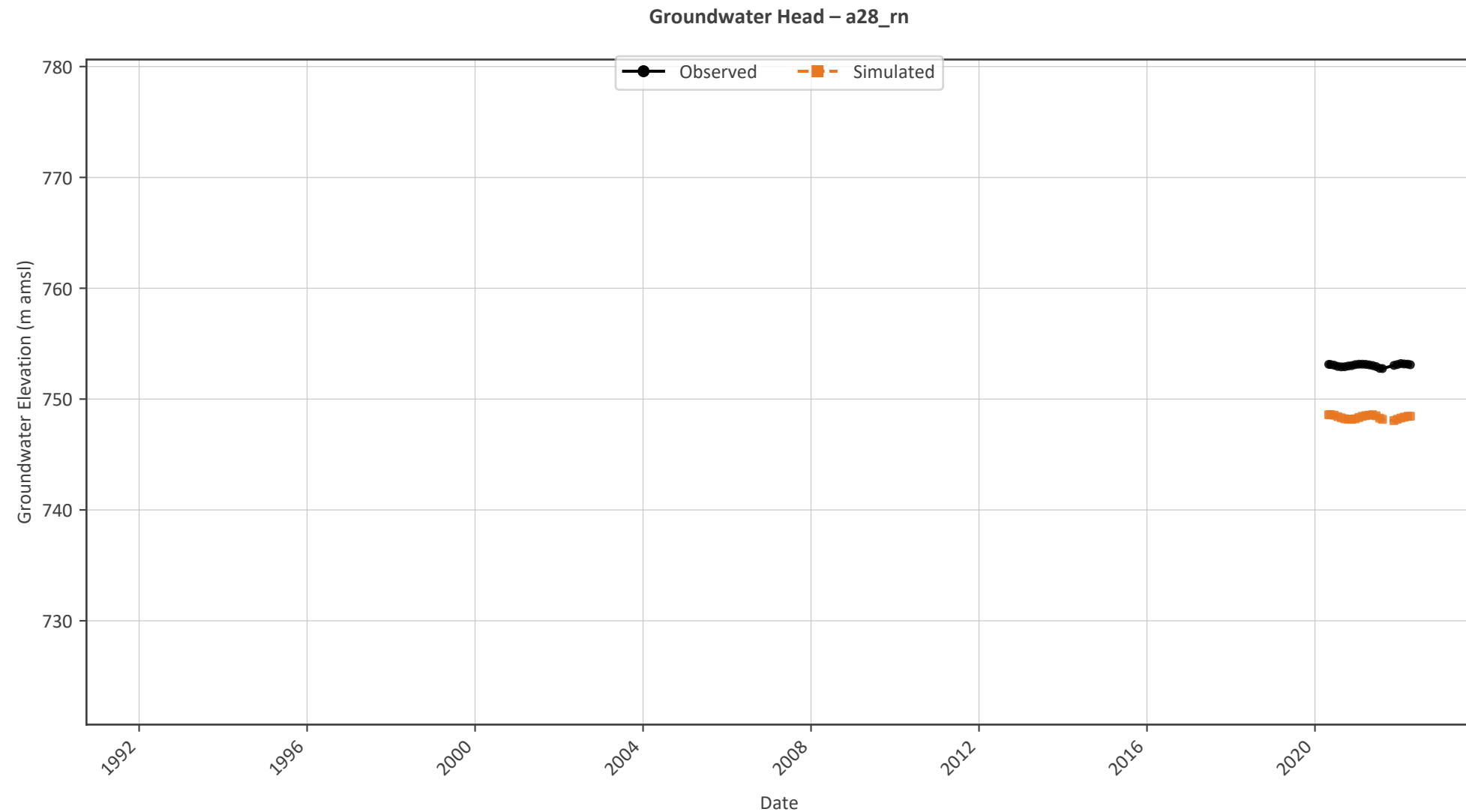
**Figure 5. Groundwater head calibration hydrograph and well location map for observation well a28\_If (Model Layer 1). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



**Figure 6. Groundwater head calibration hydrograph and well location map for observation well a28\_In (Model Layer 1). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

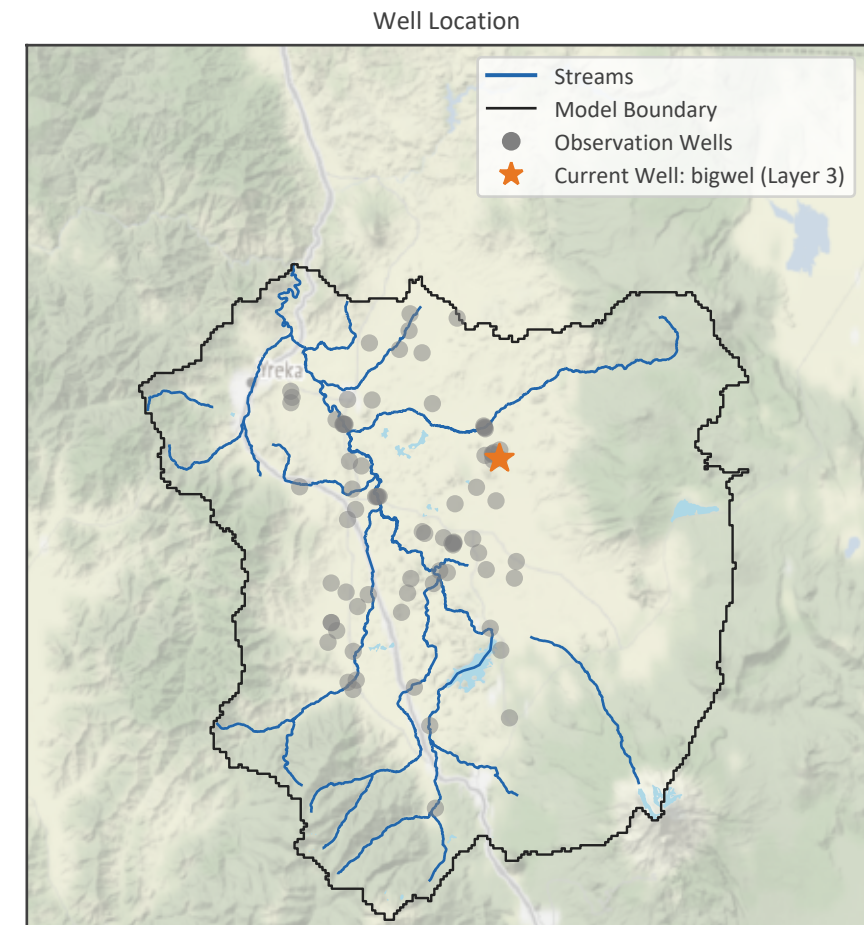
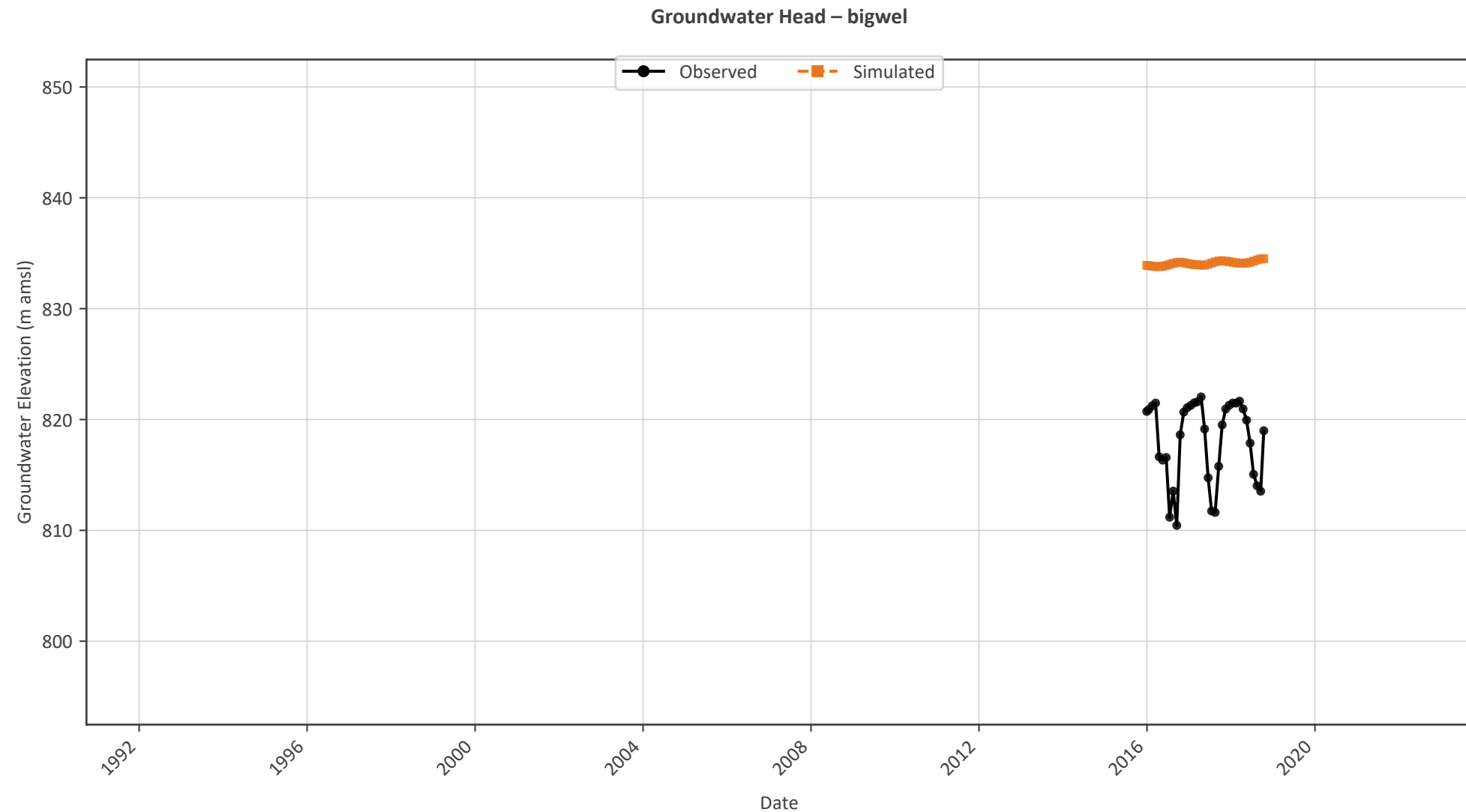


**Figure 7. Groundwater head calibration hydrograph and well location map for observation well a28\_rf (Model Layer 1). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

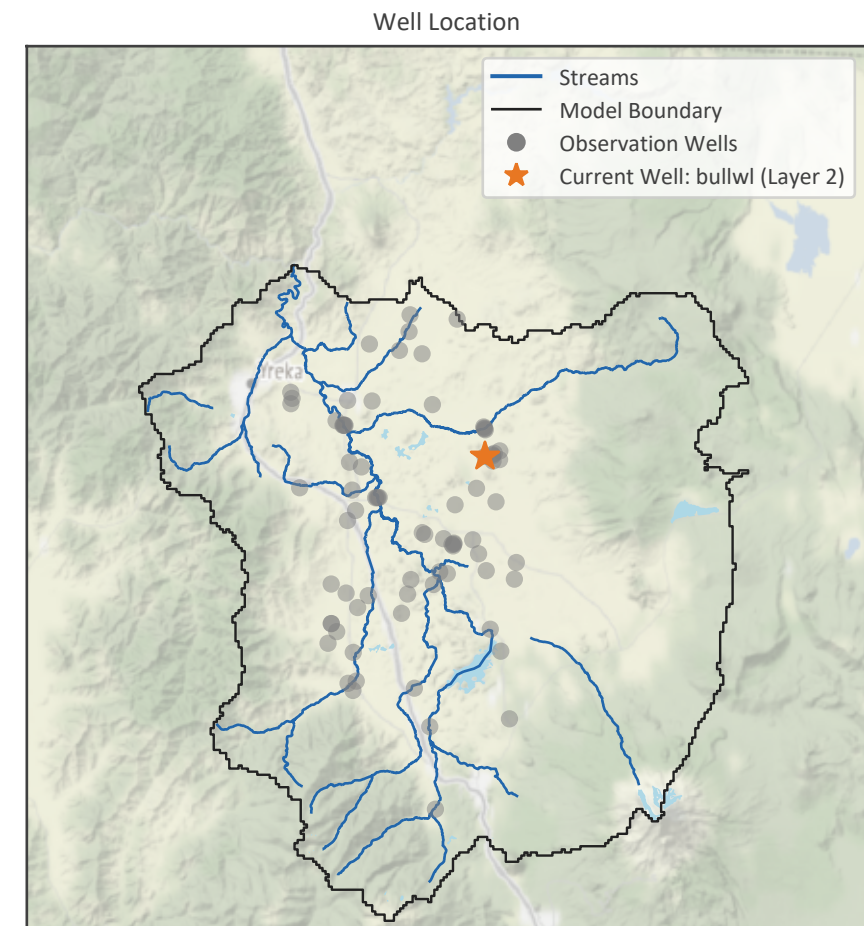
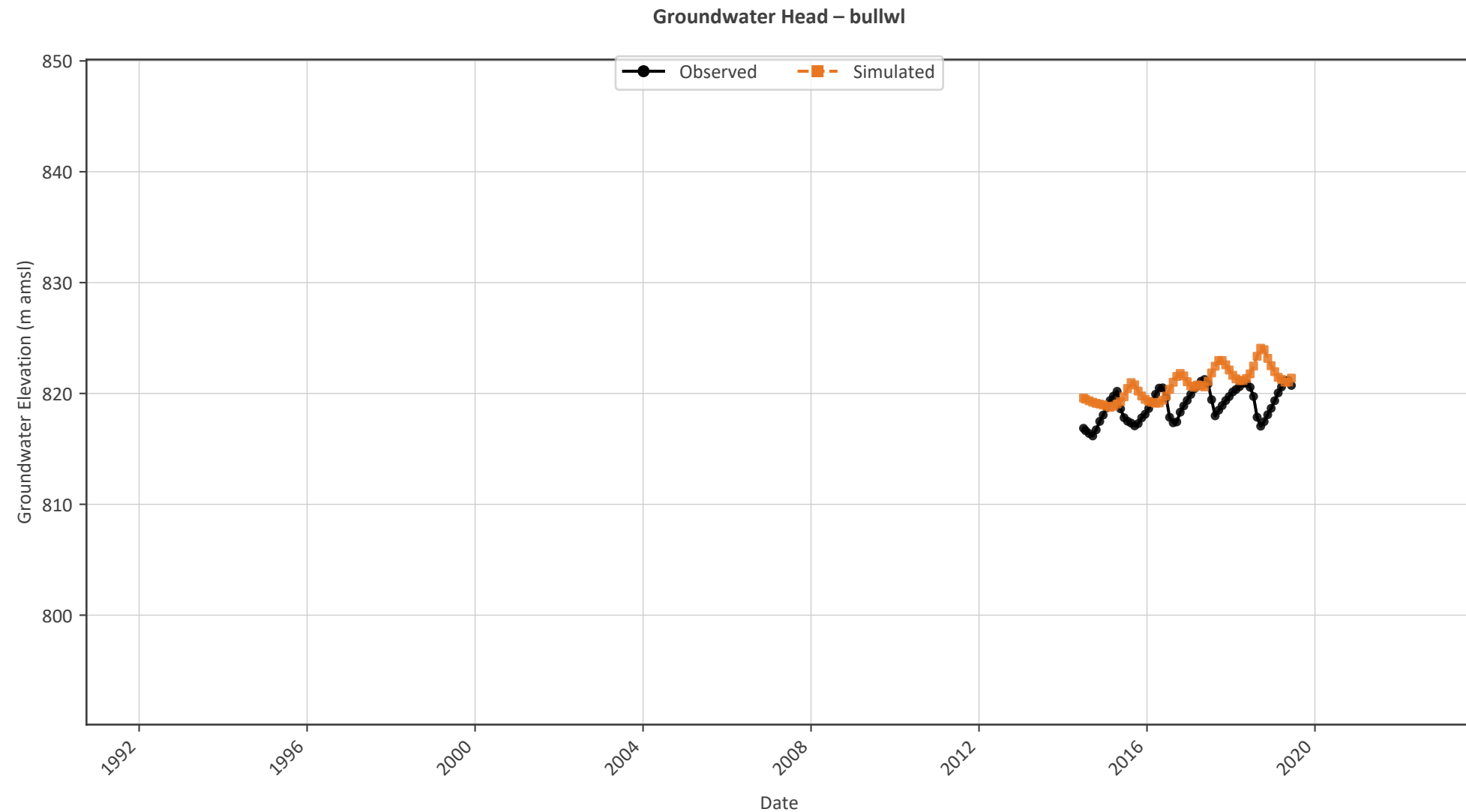


**Figure 8. Groundwater head calibration hydrograph and well location map for observation well a28\_rn (Model Layer 1). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

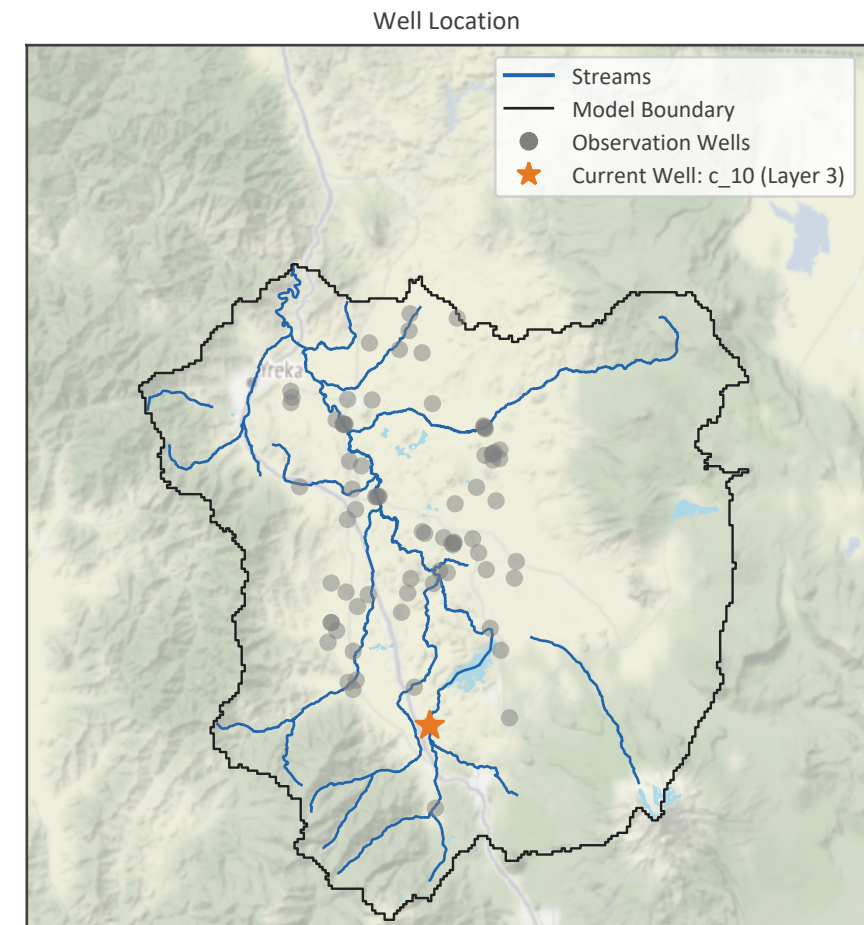
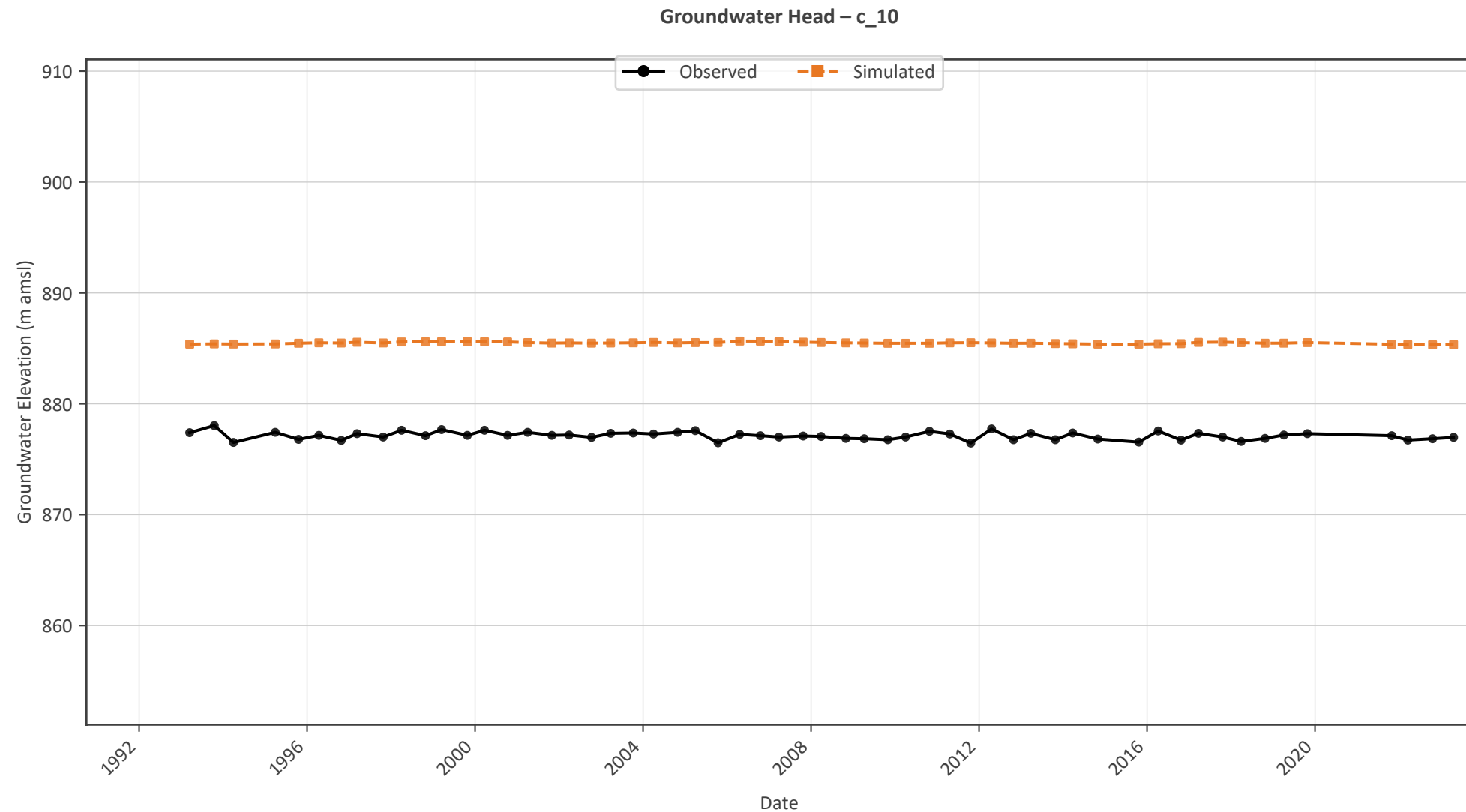




**Figure 9. Groundwater head calibration hydrograph and well location map for observation well bigwel (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

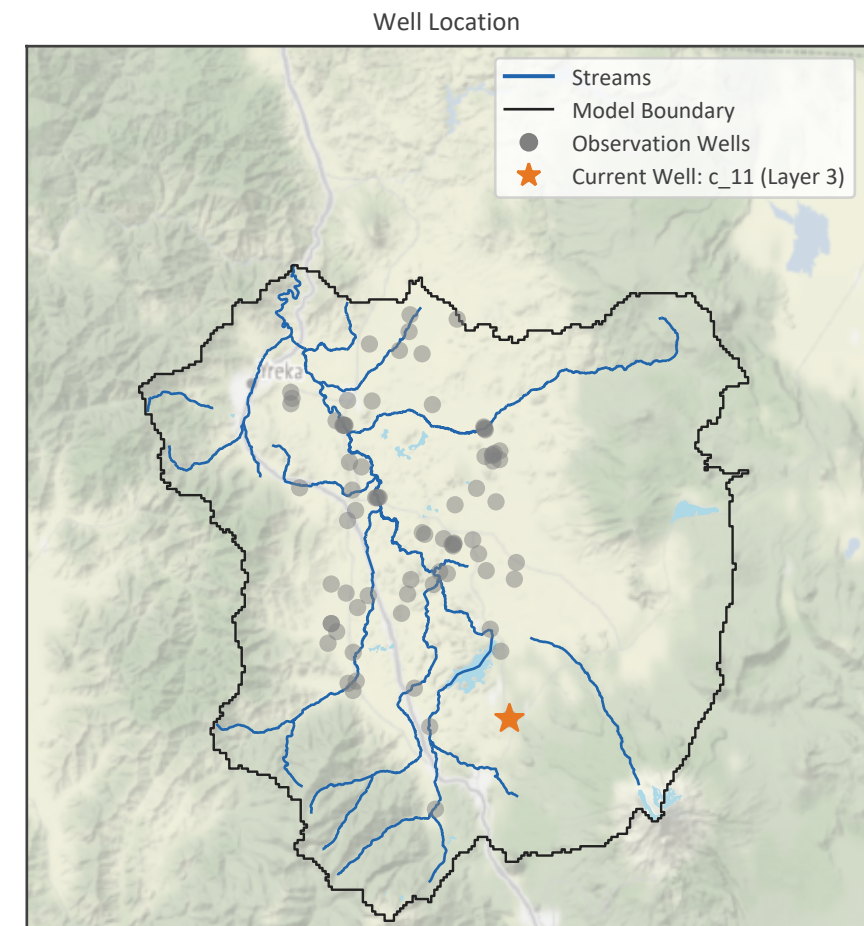
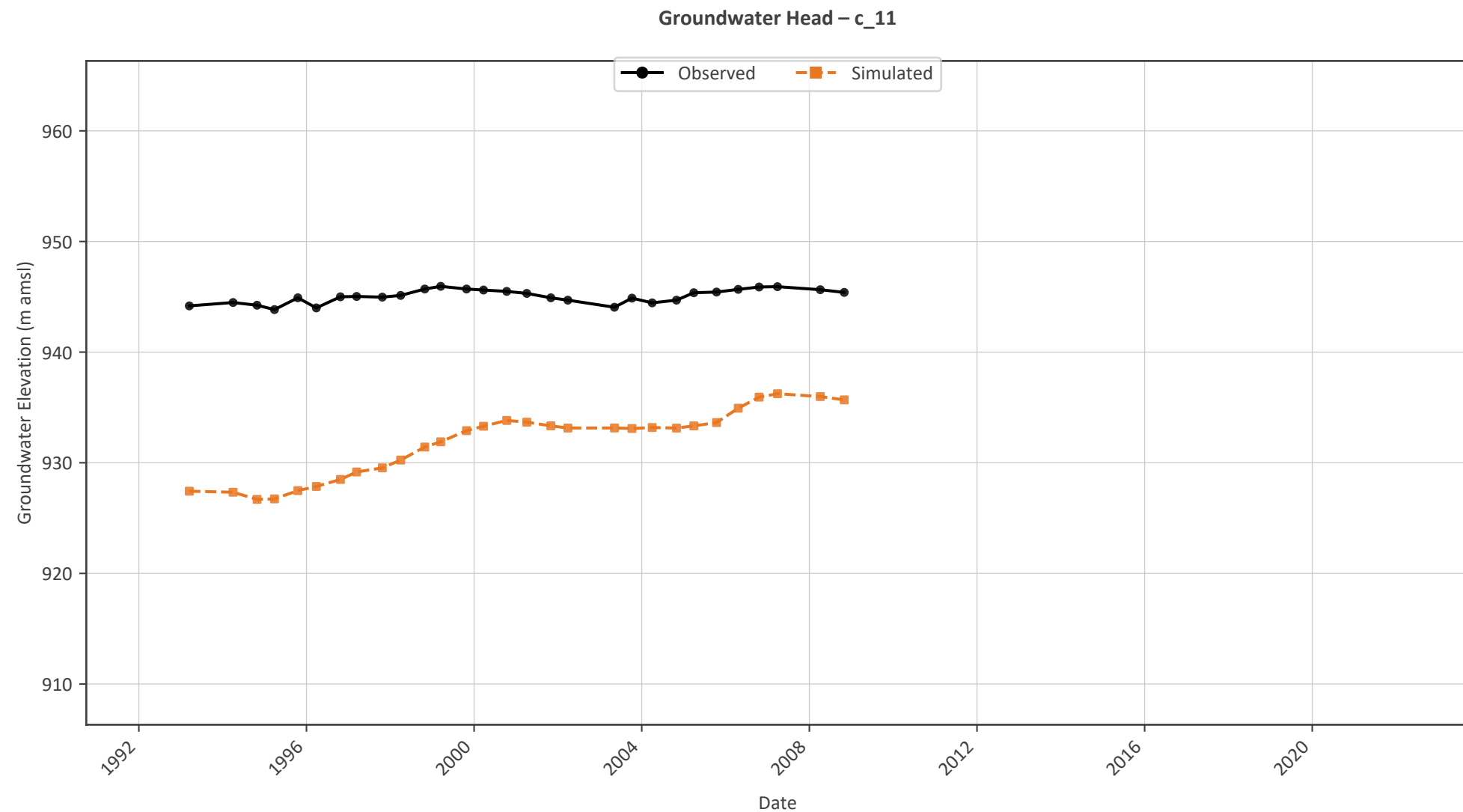


**Figure 10. Groundwater head calibration hydrograph and well location map for observation well bullwl (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

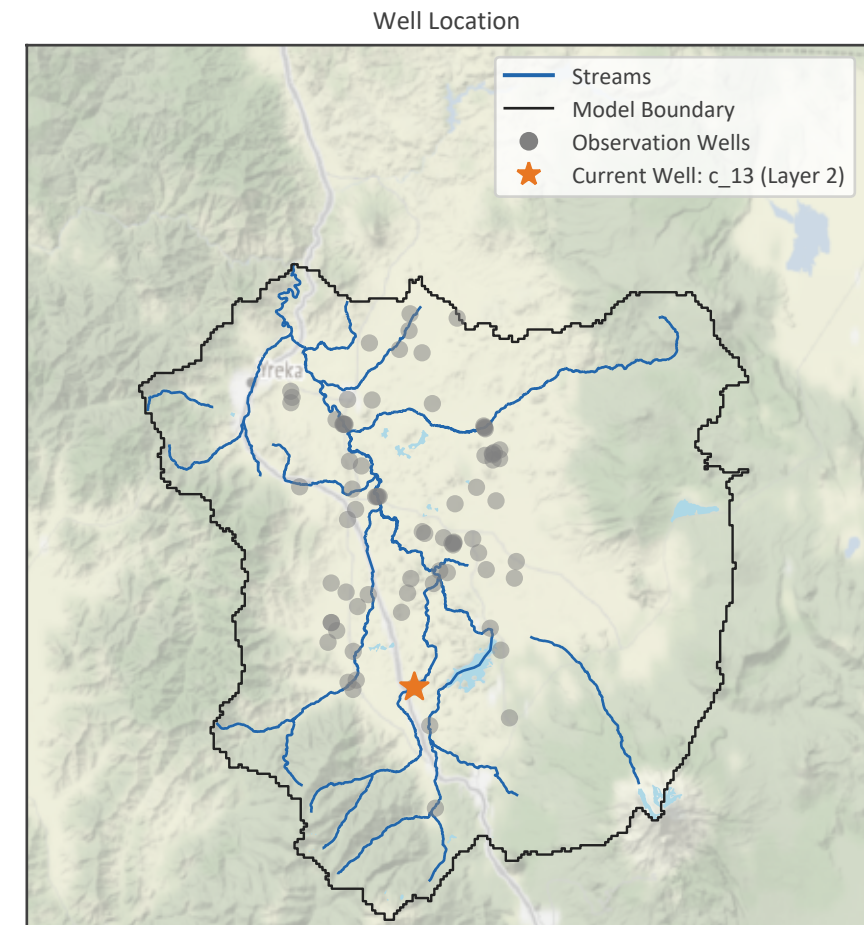
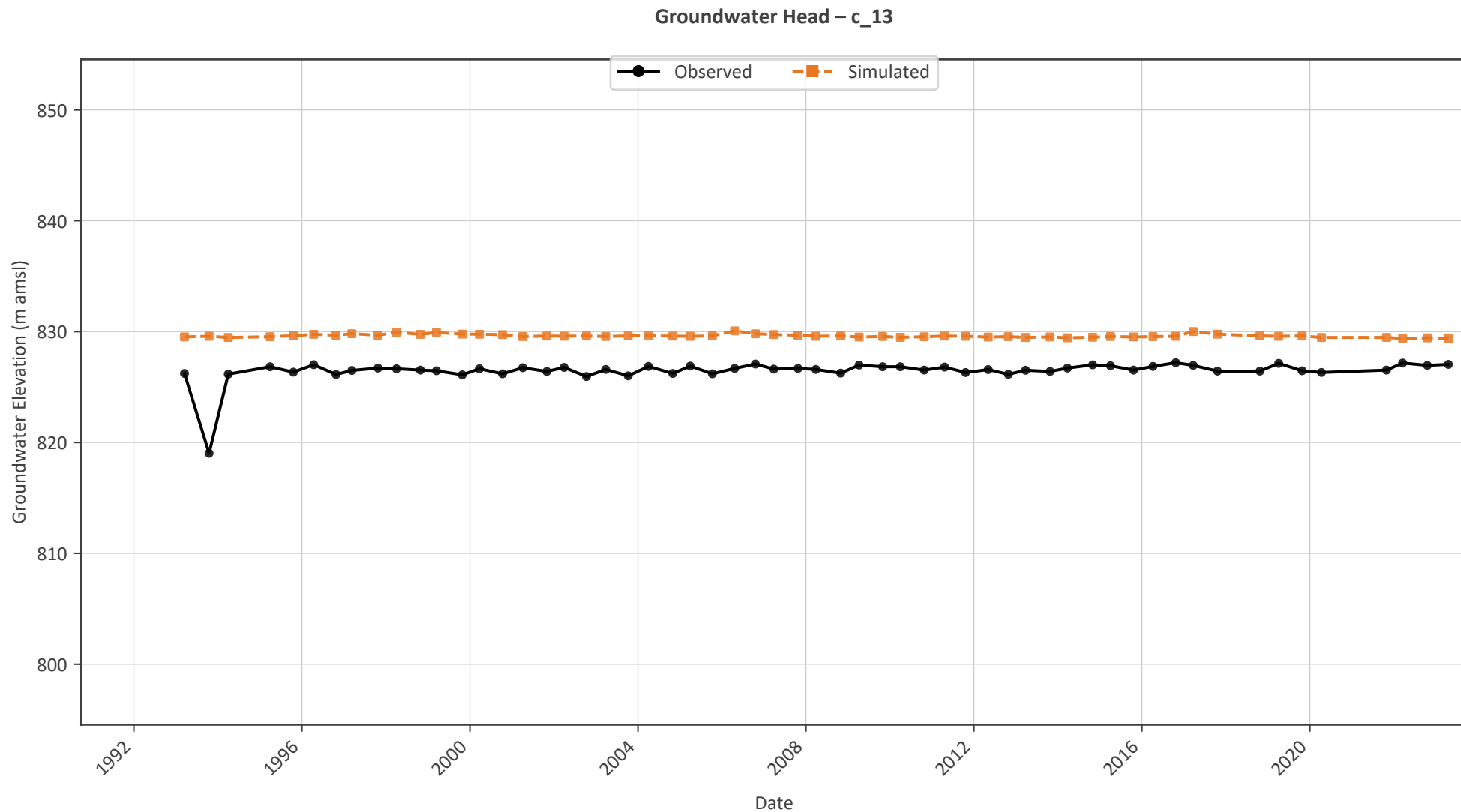


**Figure 11. Groundwater head calibration hydrograph and well location map for observation well c\_10 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

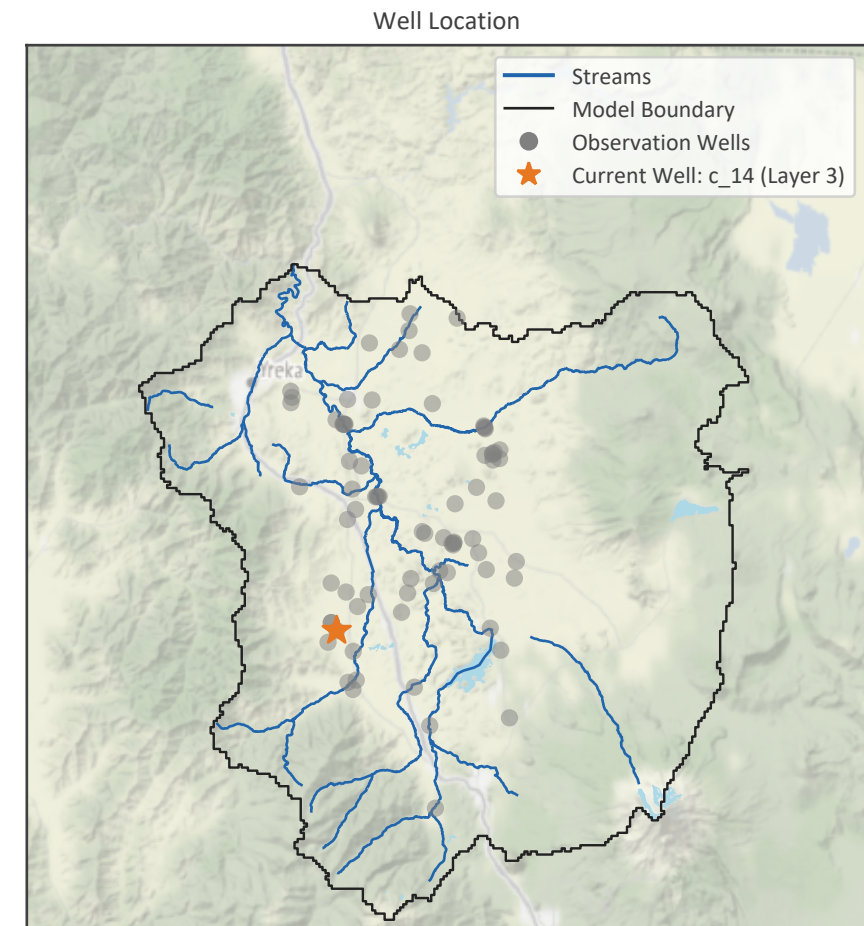
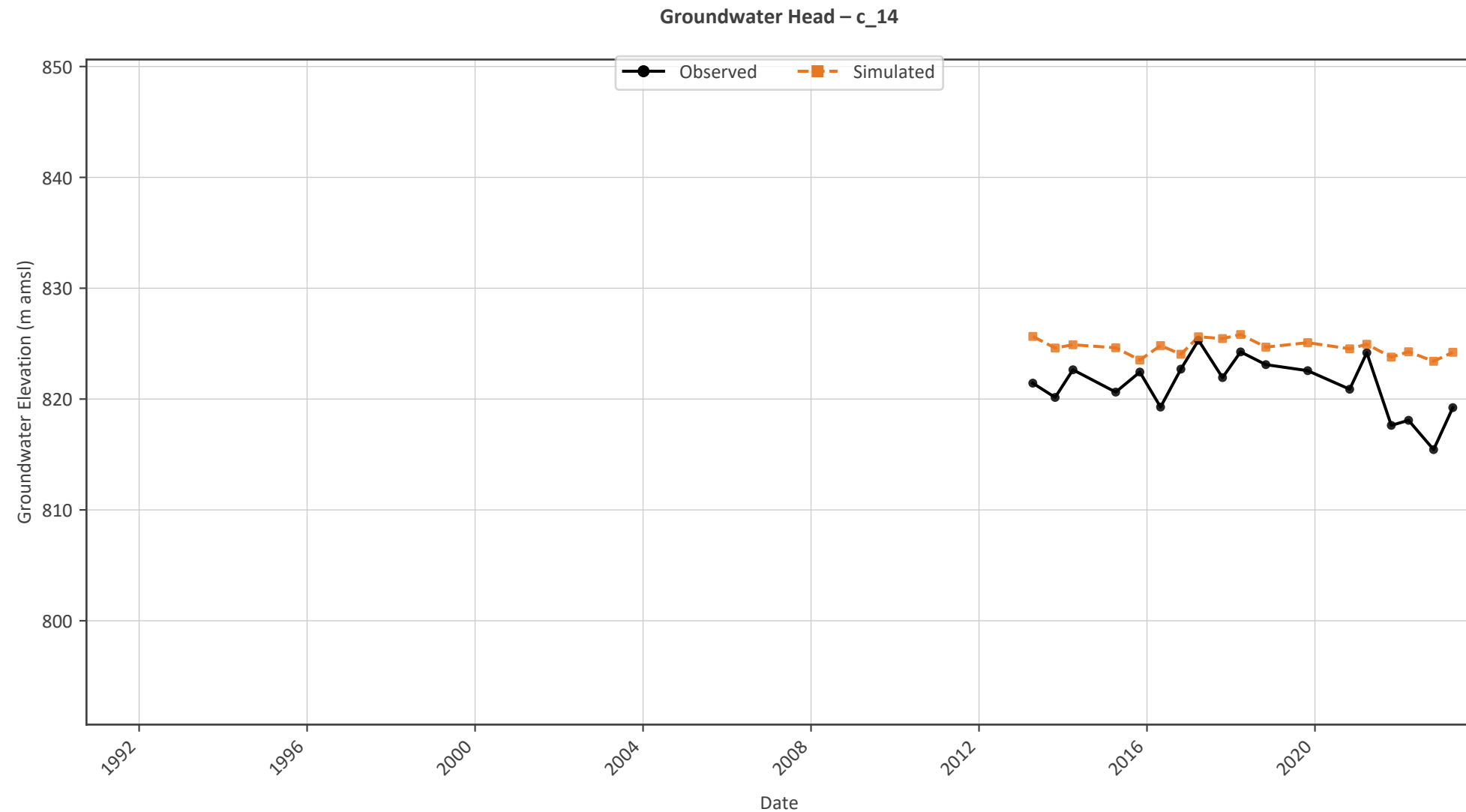




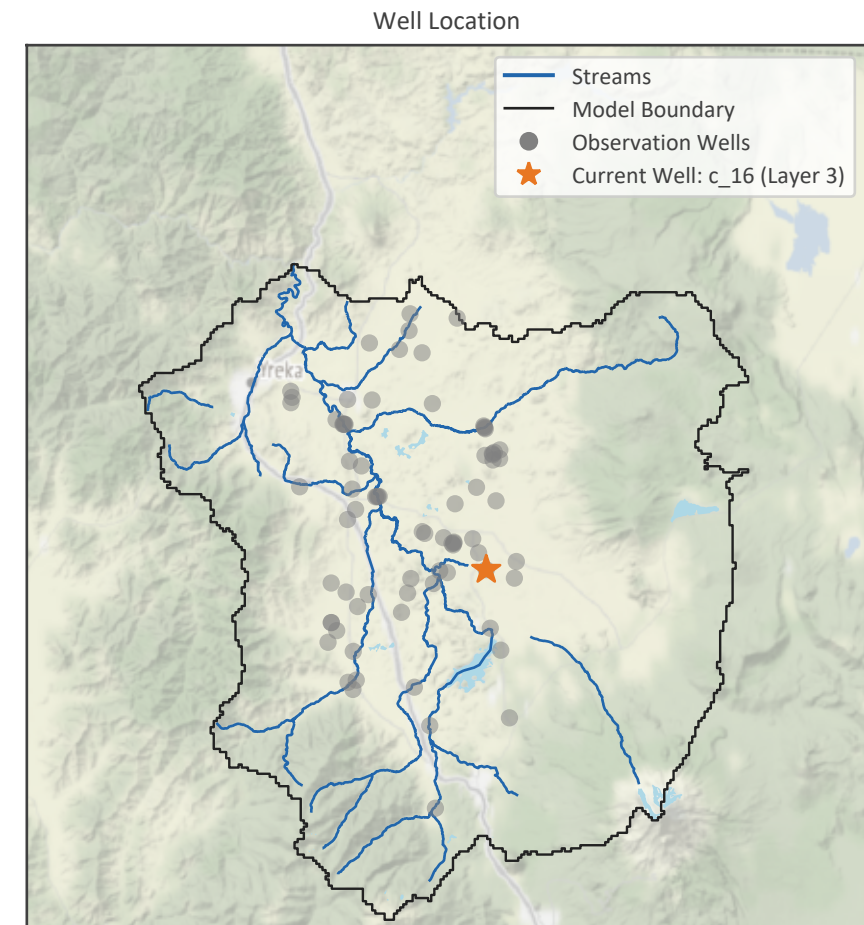
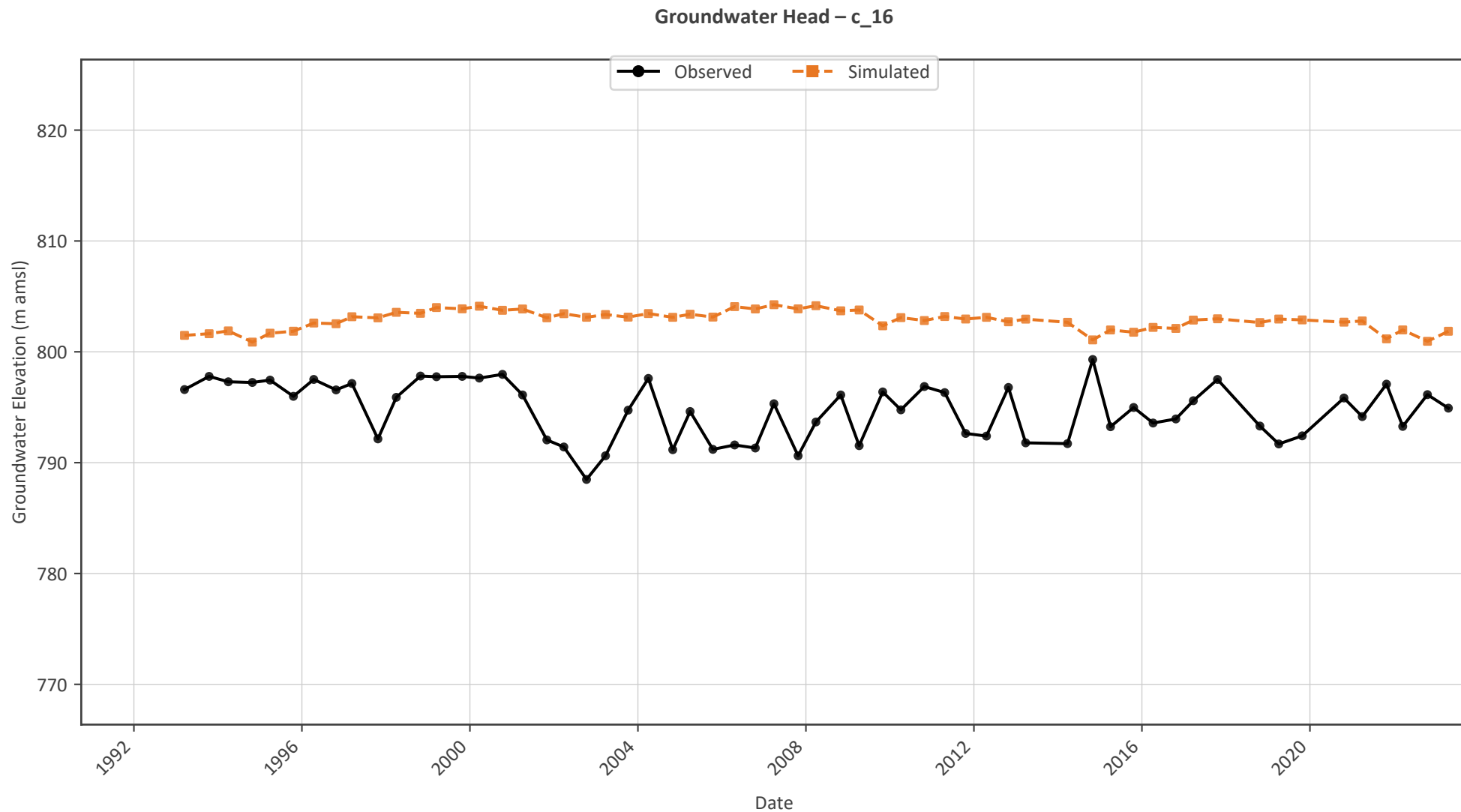
**Figure 12. Groundwater head calibration hydrograph and well location map for observation well c\_11 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



**Figure 13. Groundwater head calibration hydrograph and well location map for observation well c\_13 (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

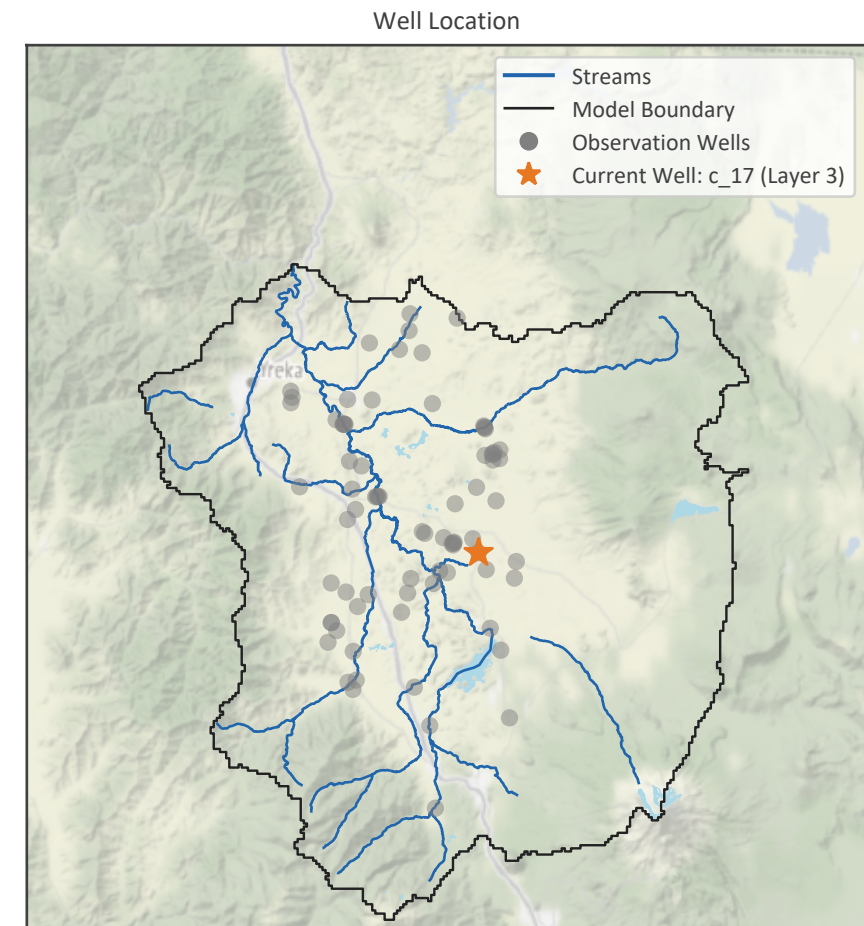
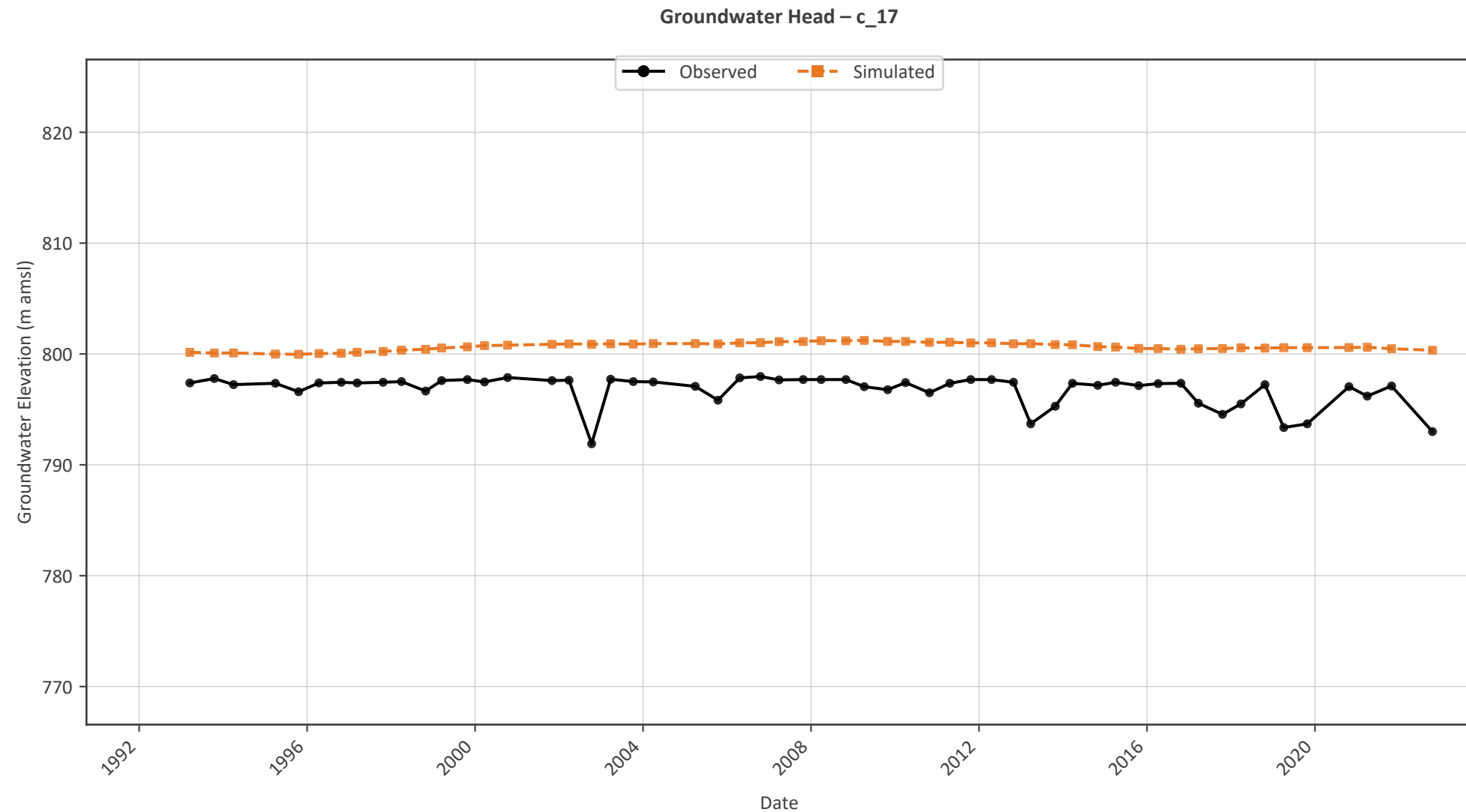


**Figure 14. Groundwater head calibration hydrograph and well location map for observation well c\_14 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

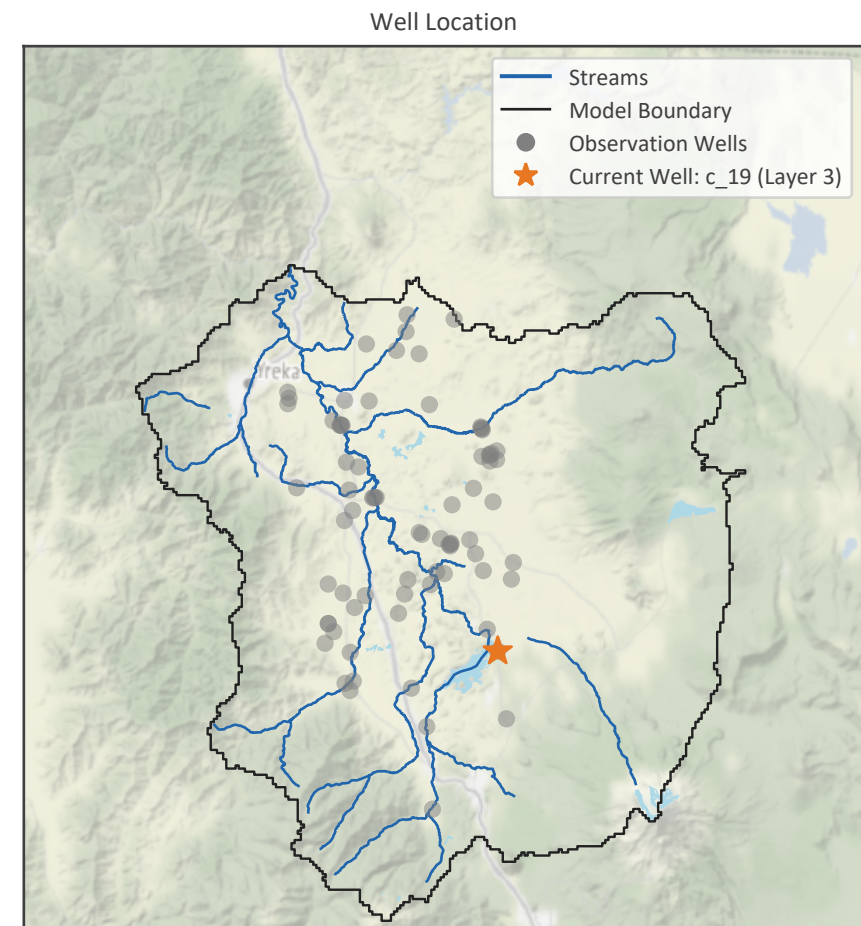
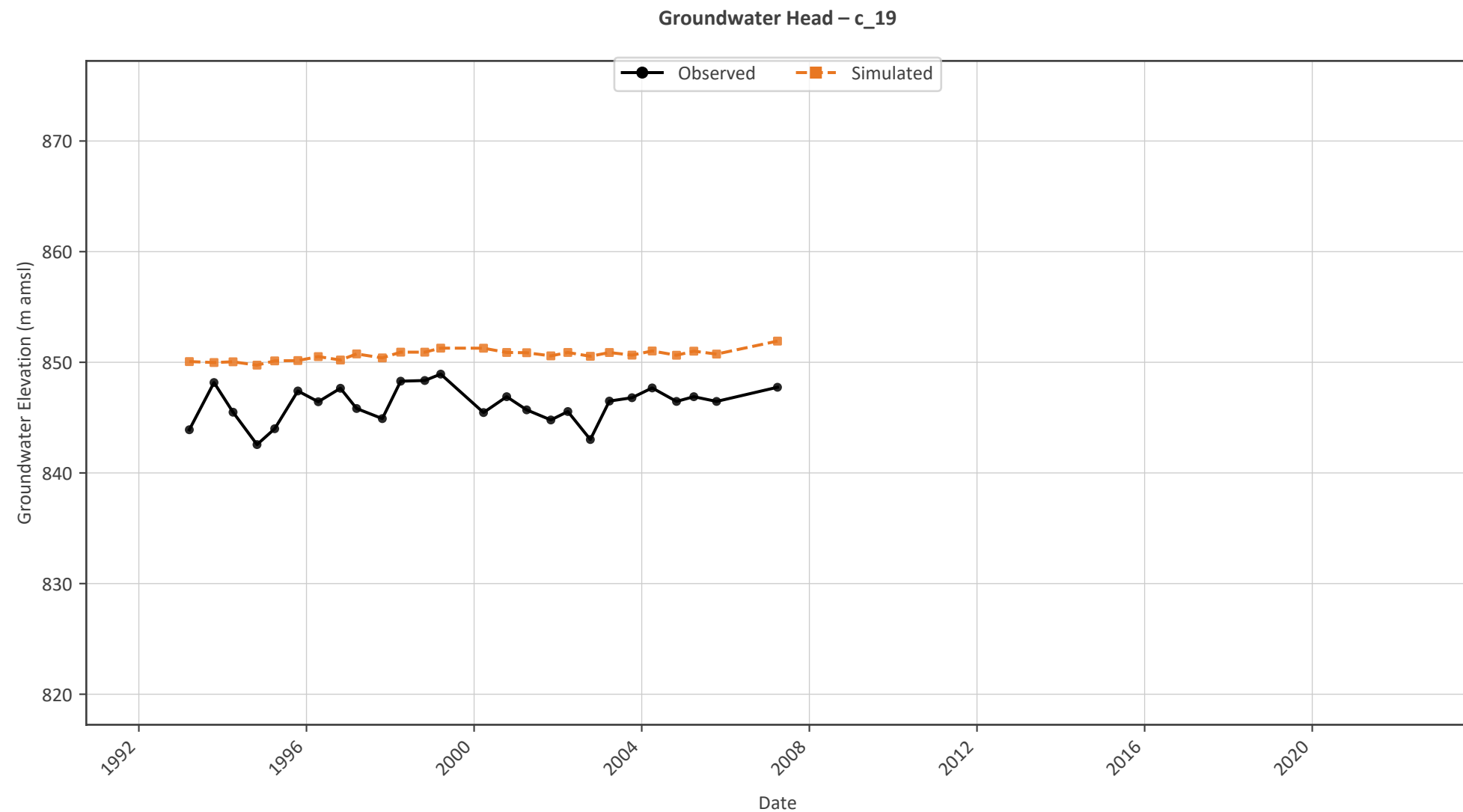


**Figure 15. Groundwater head calibration hydrograph and well location map for observation well c\_16 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

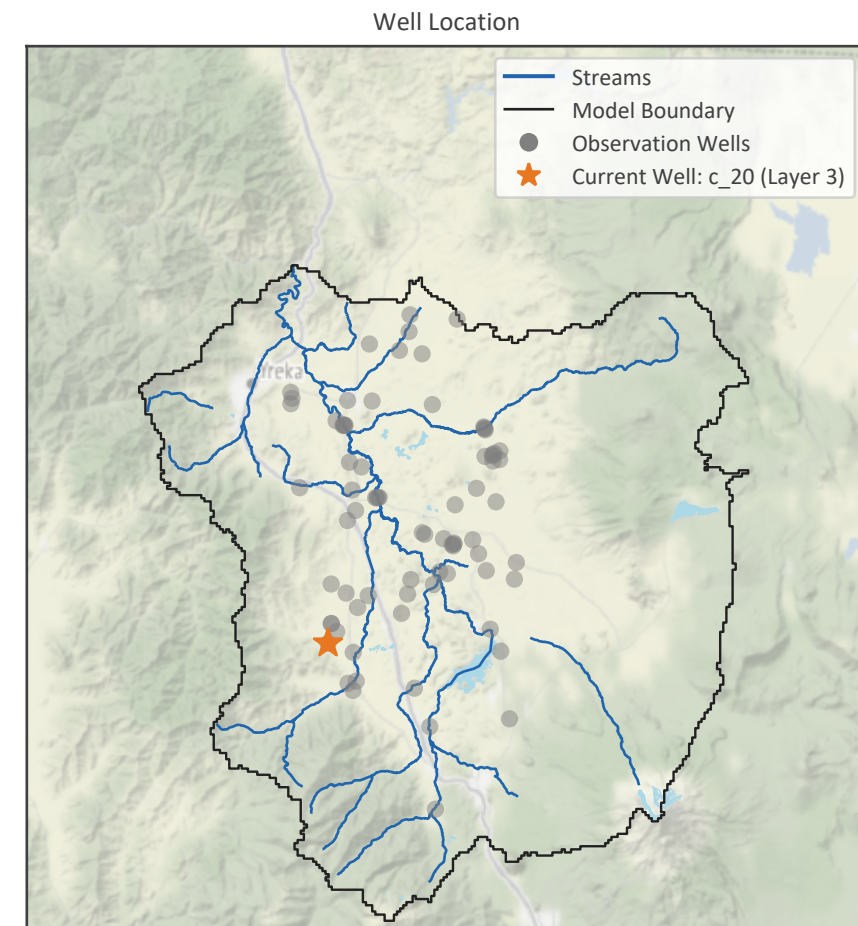
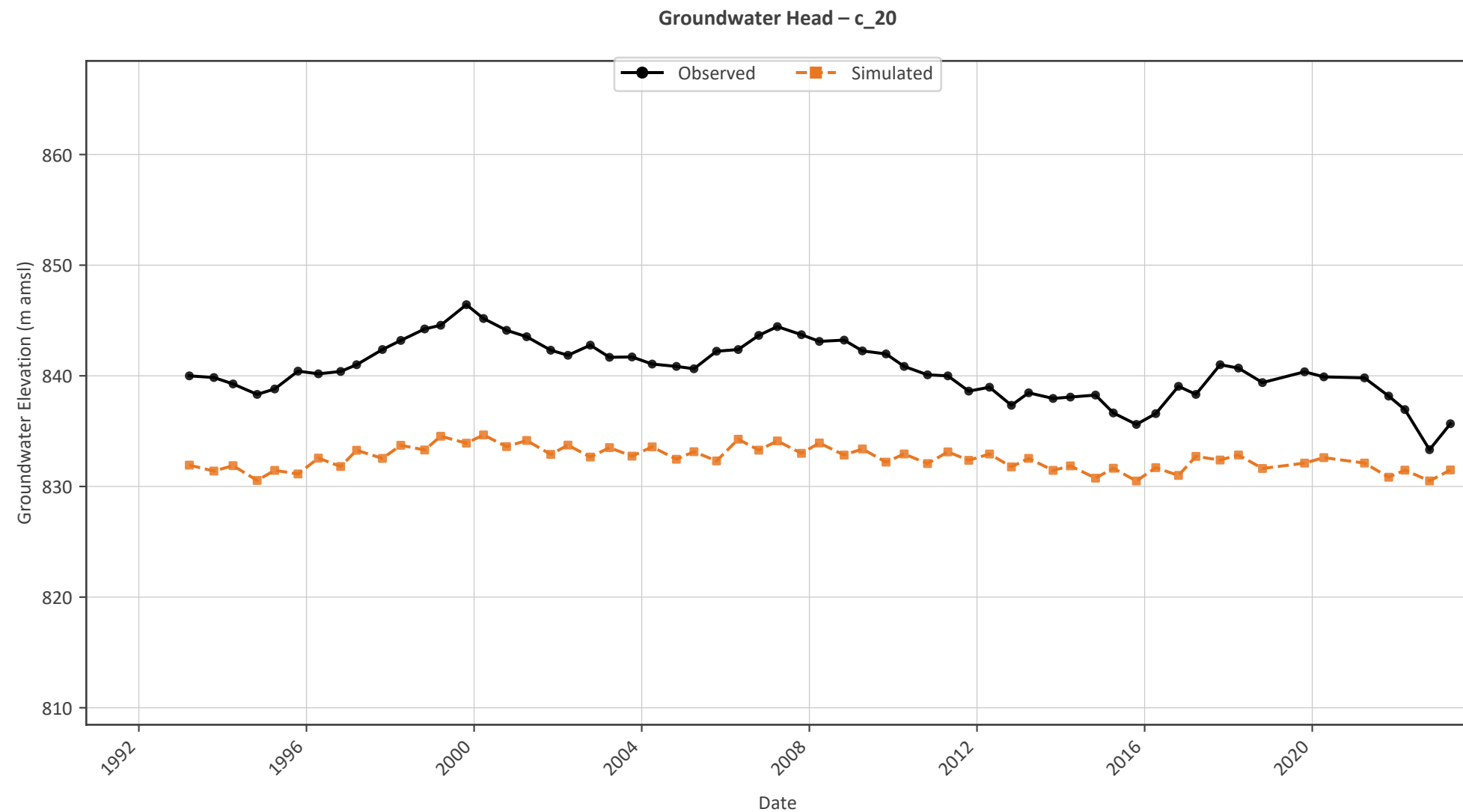




**Figure 16. Groundwater head calibration hydrograph and well location map for observation well c\_17 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

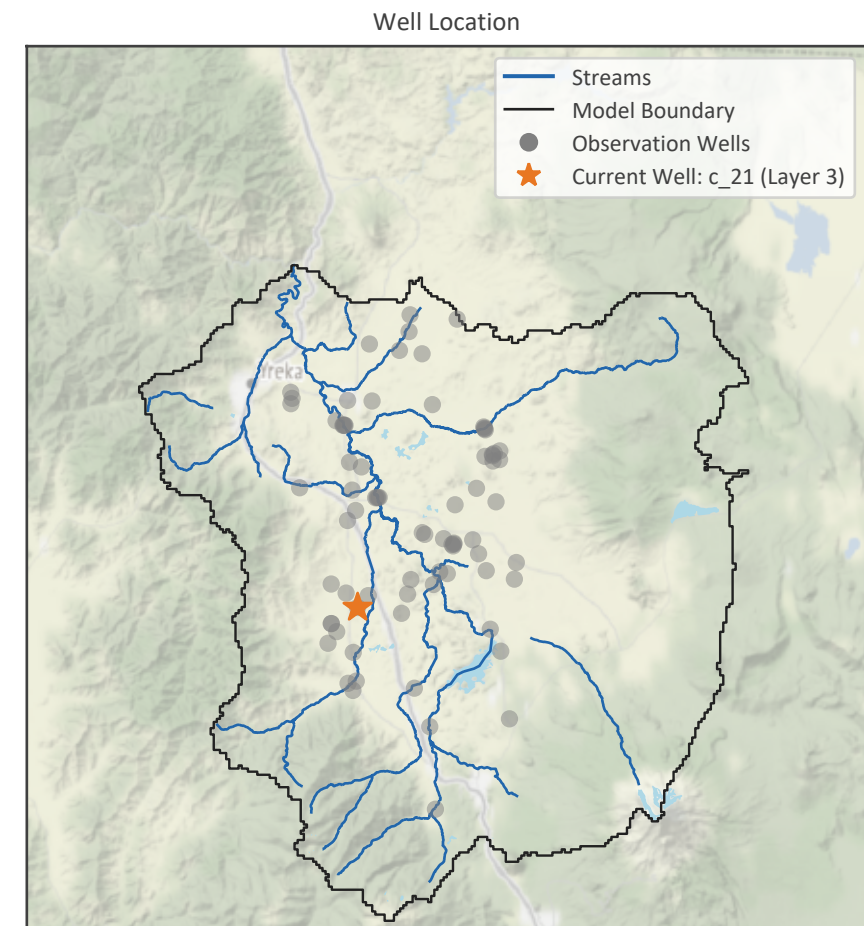
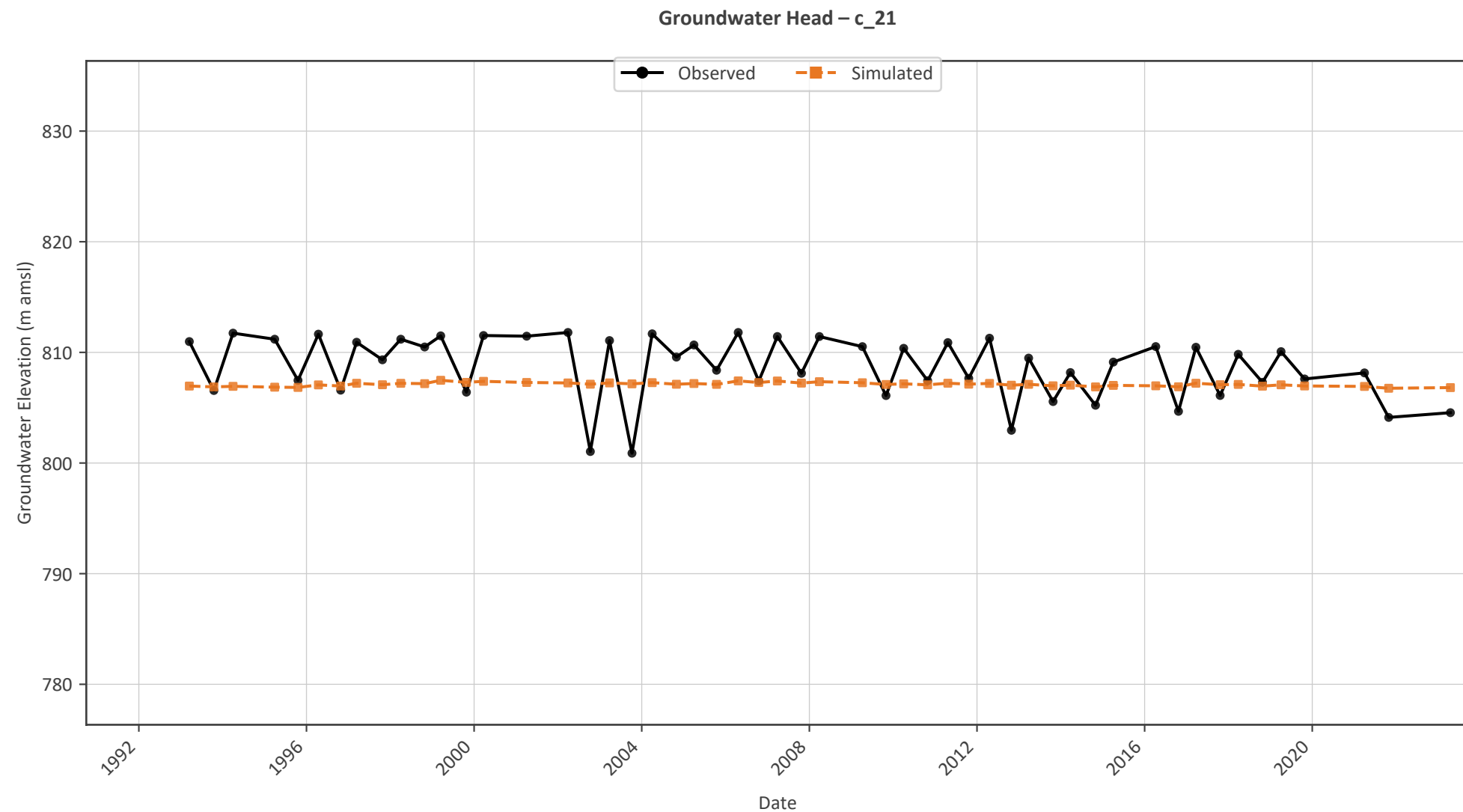


**Figure 17. Groundwater head calibration hydrograph and well location map for observation well c\_19 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

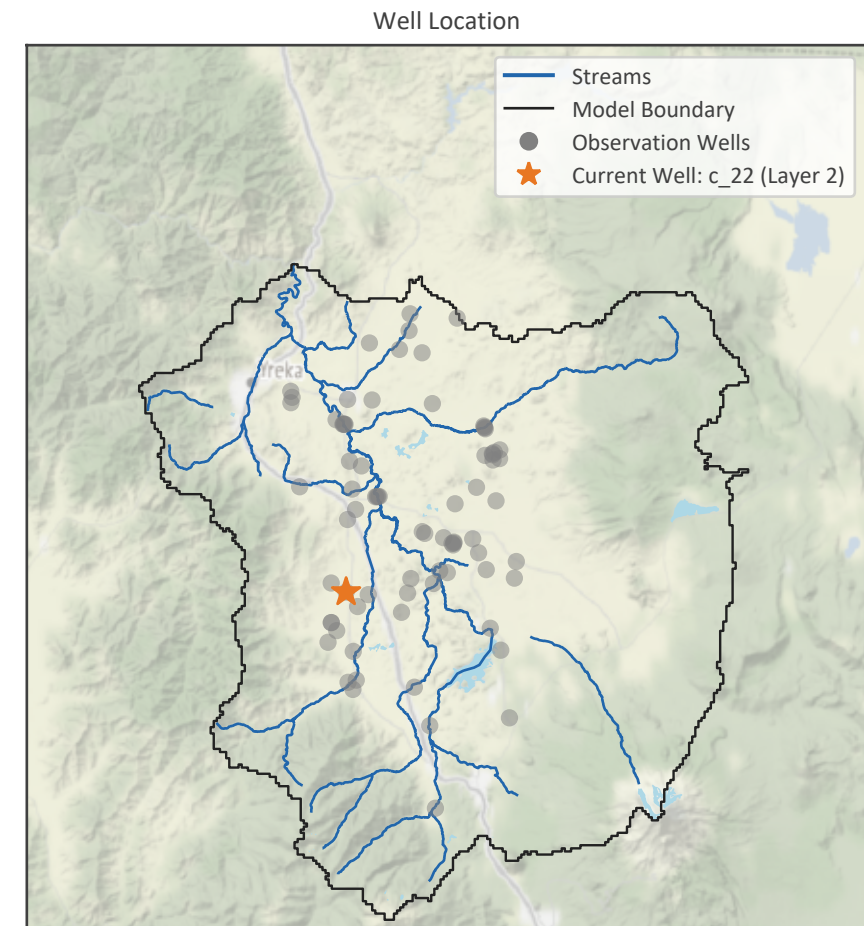
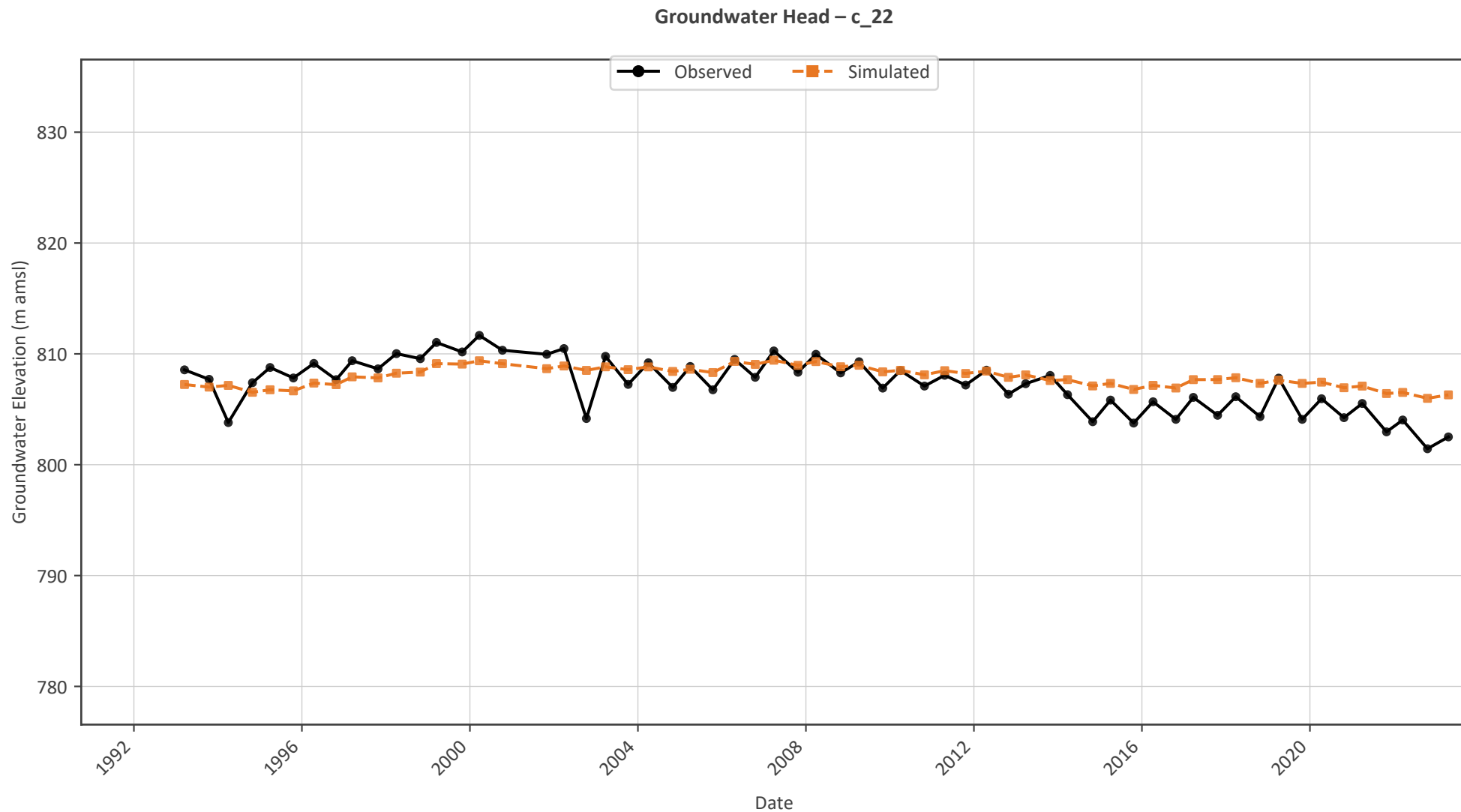


**Figure 18. Groundwater head calibration hydrograph and well location map for observation well c\_20 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

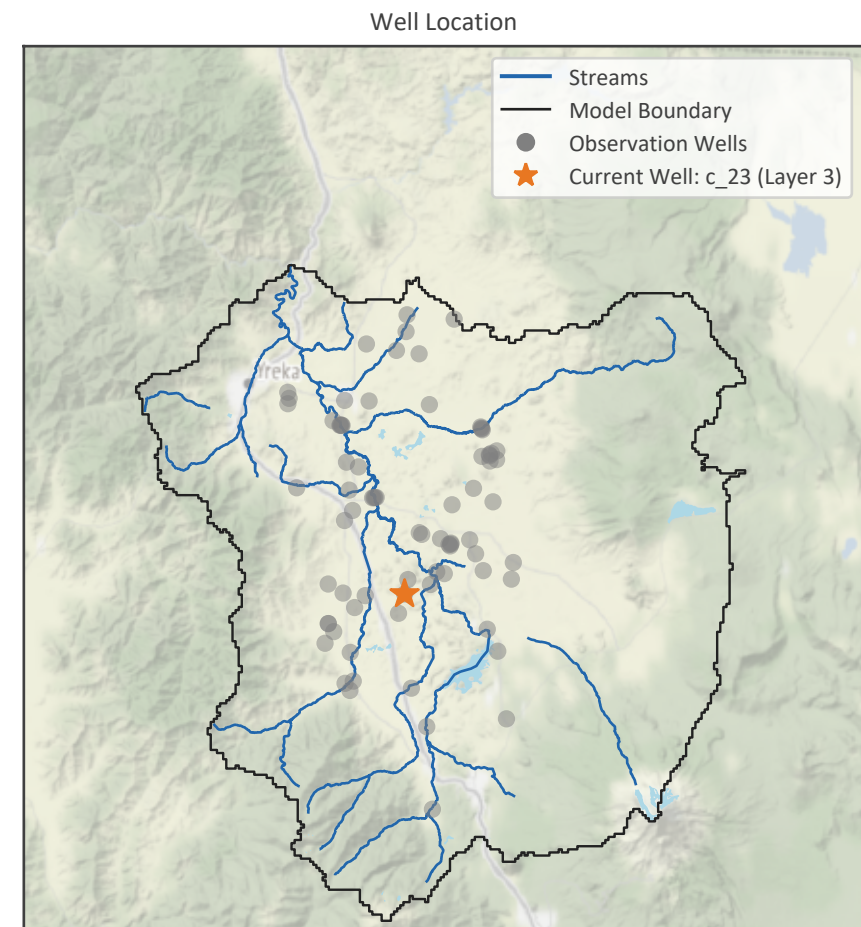
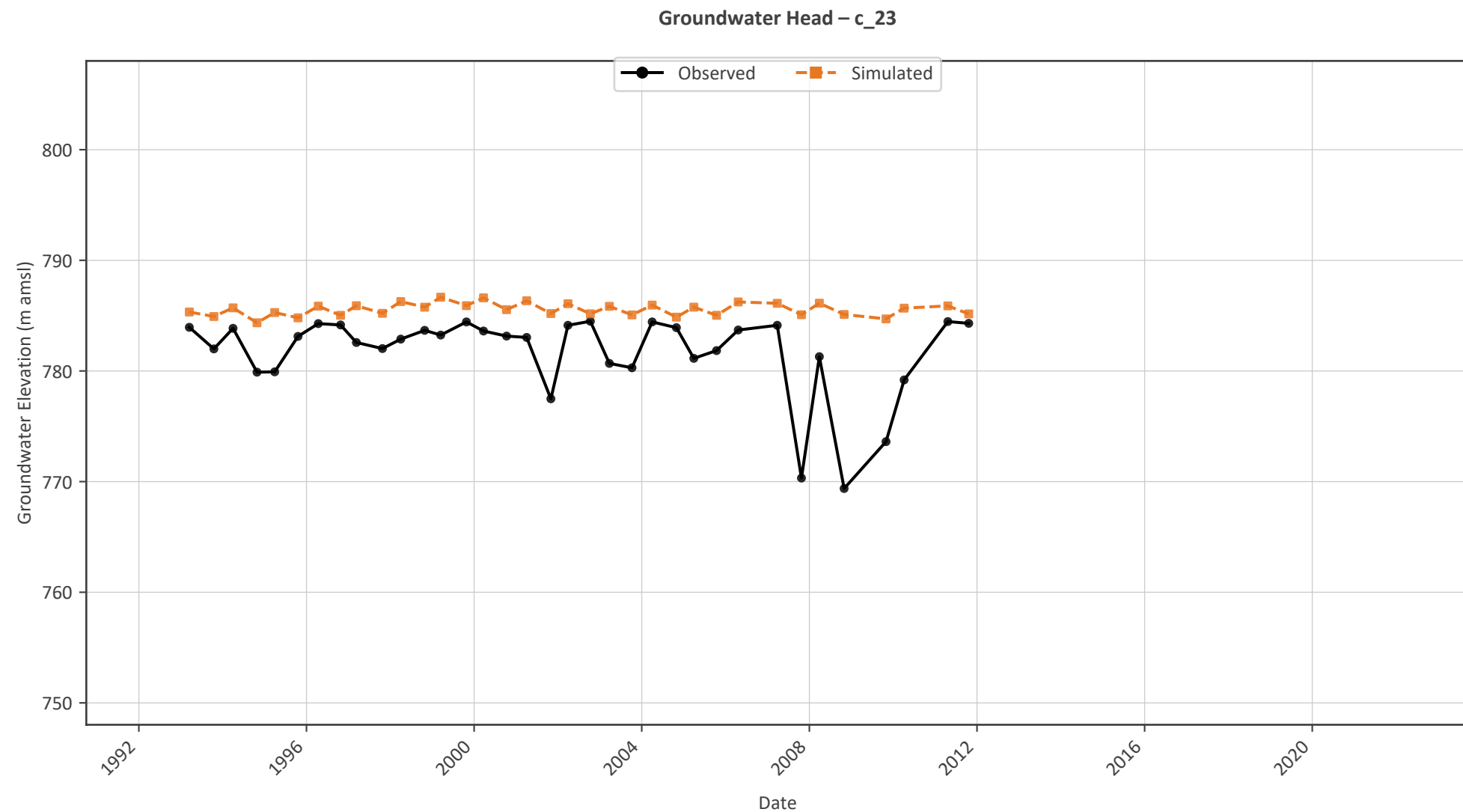




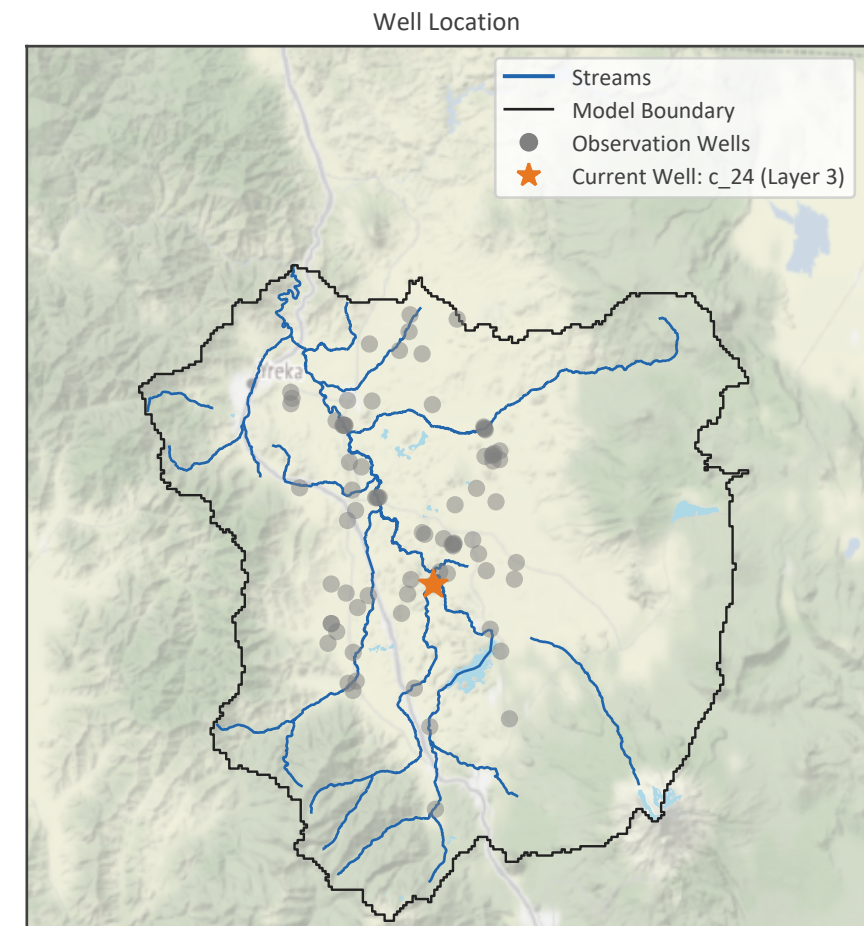
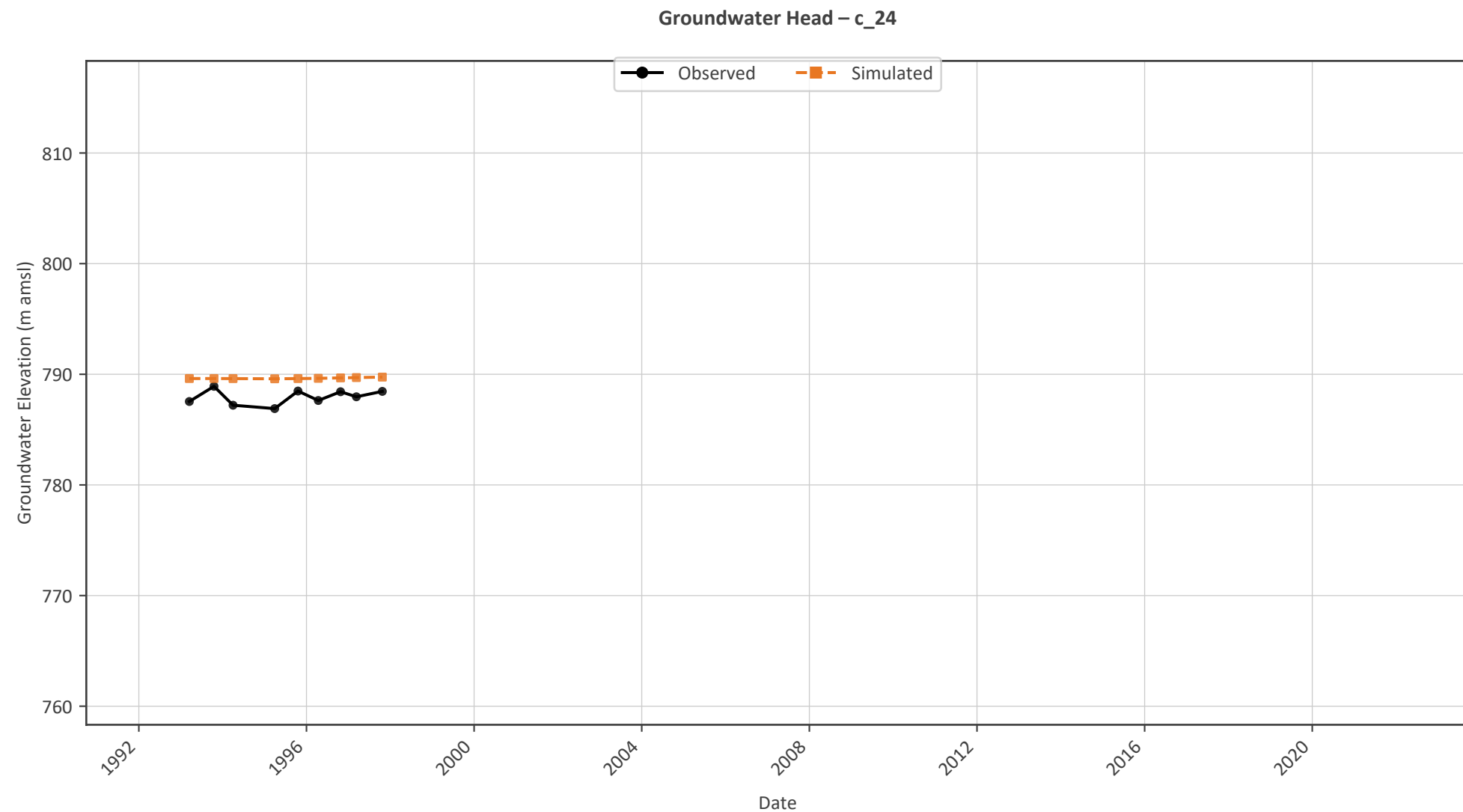
**Figure 19. Groundwater head calibration hydrograph and well location map for observation well c\_21 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



**Figure 20. Groundwater head calibration hydrograph and well location map for observation well c\_22 (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

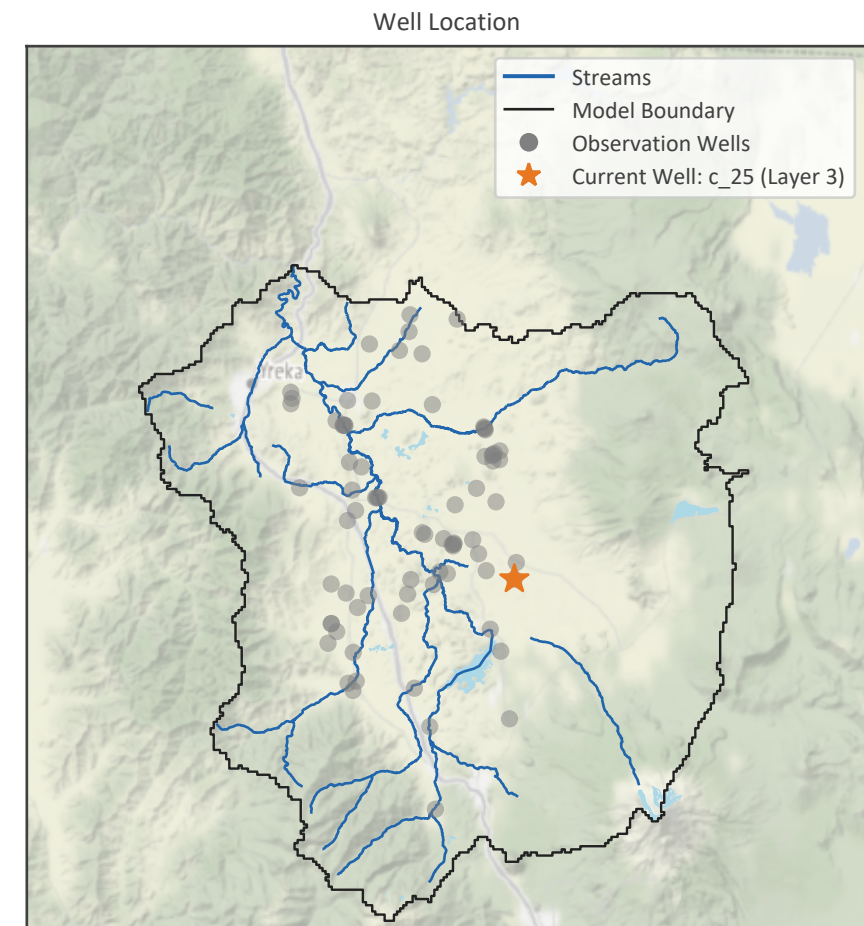
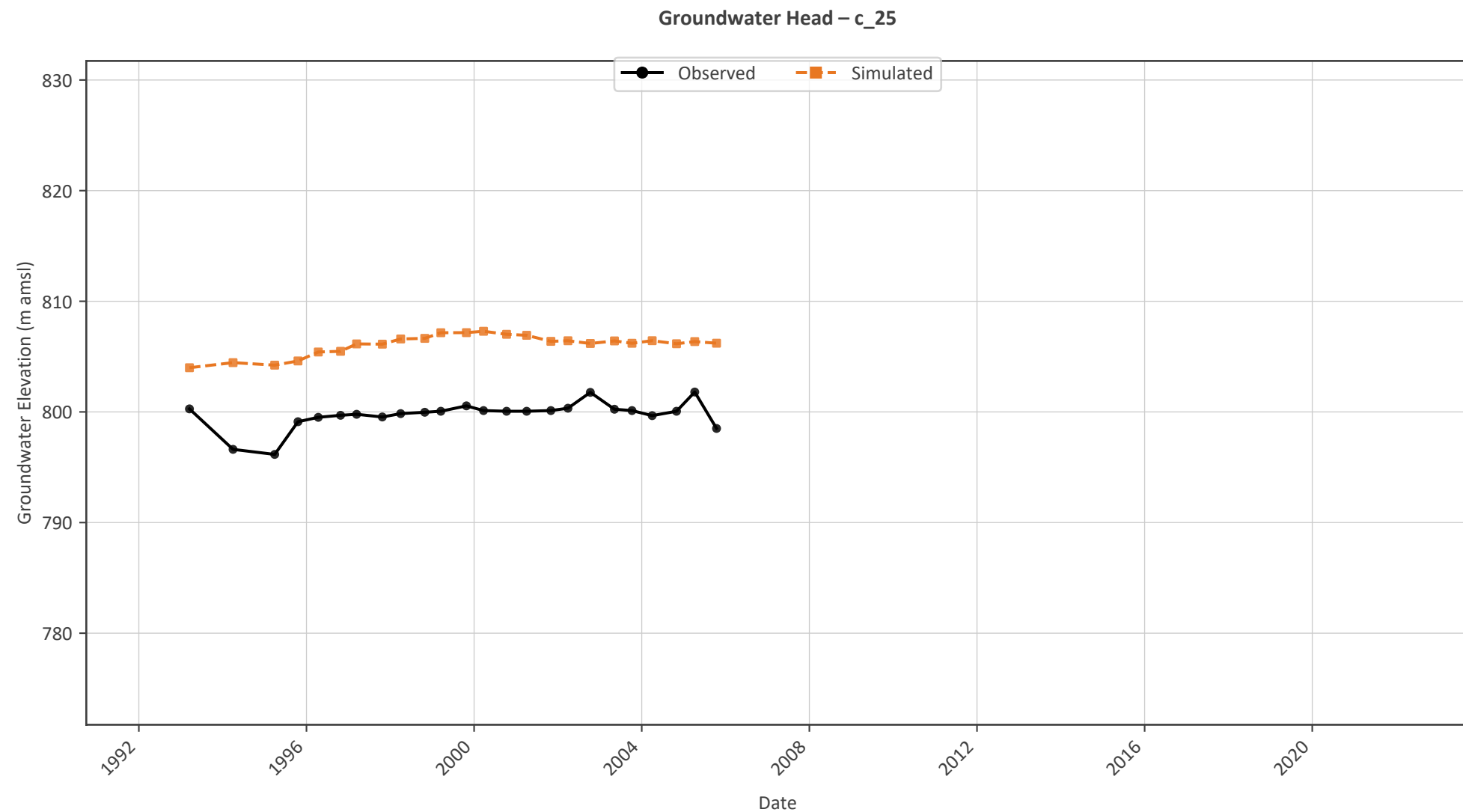


**Figure 21. Groundwater head calibration hydrograph and well location map for observation well c\_23 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

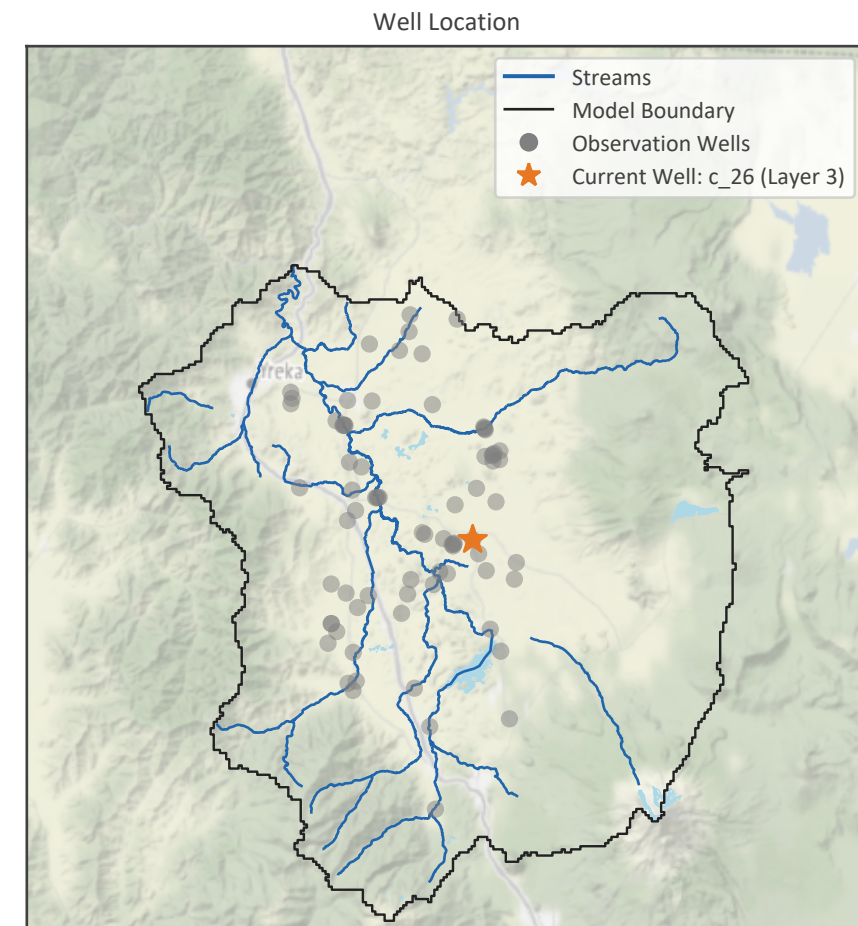
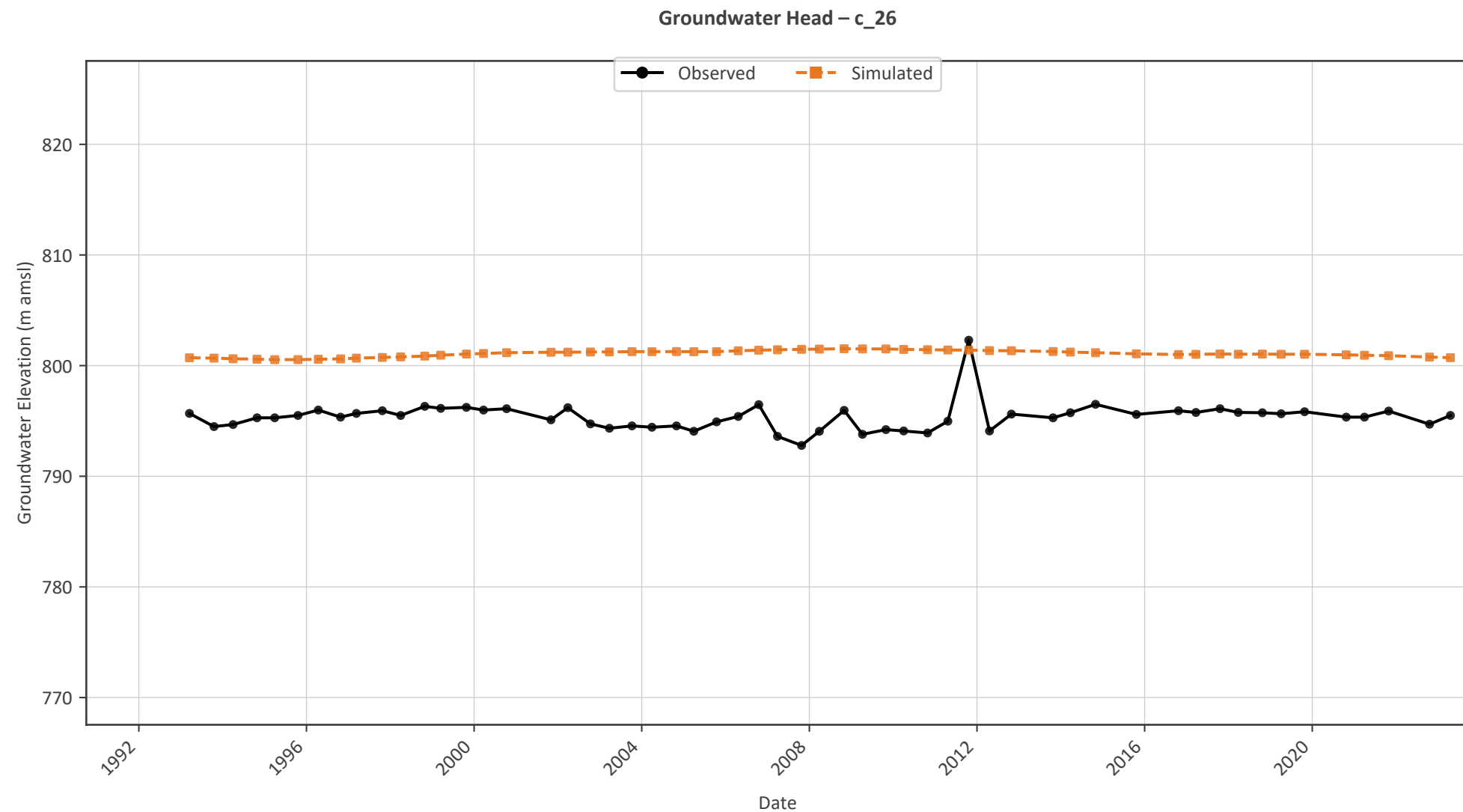


**Figure 22. Groundwater head calibration hydrograph and well location map for observation well c\_24 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

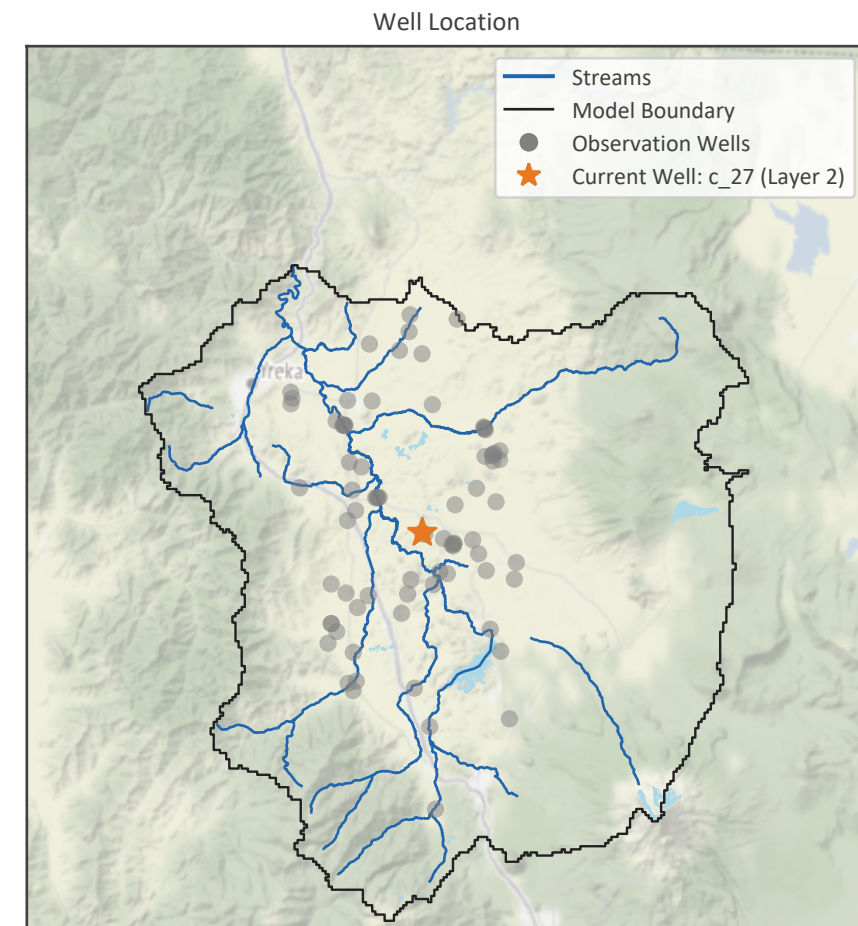
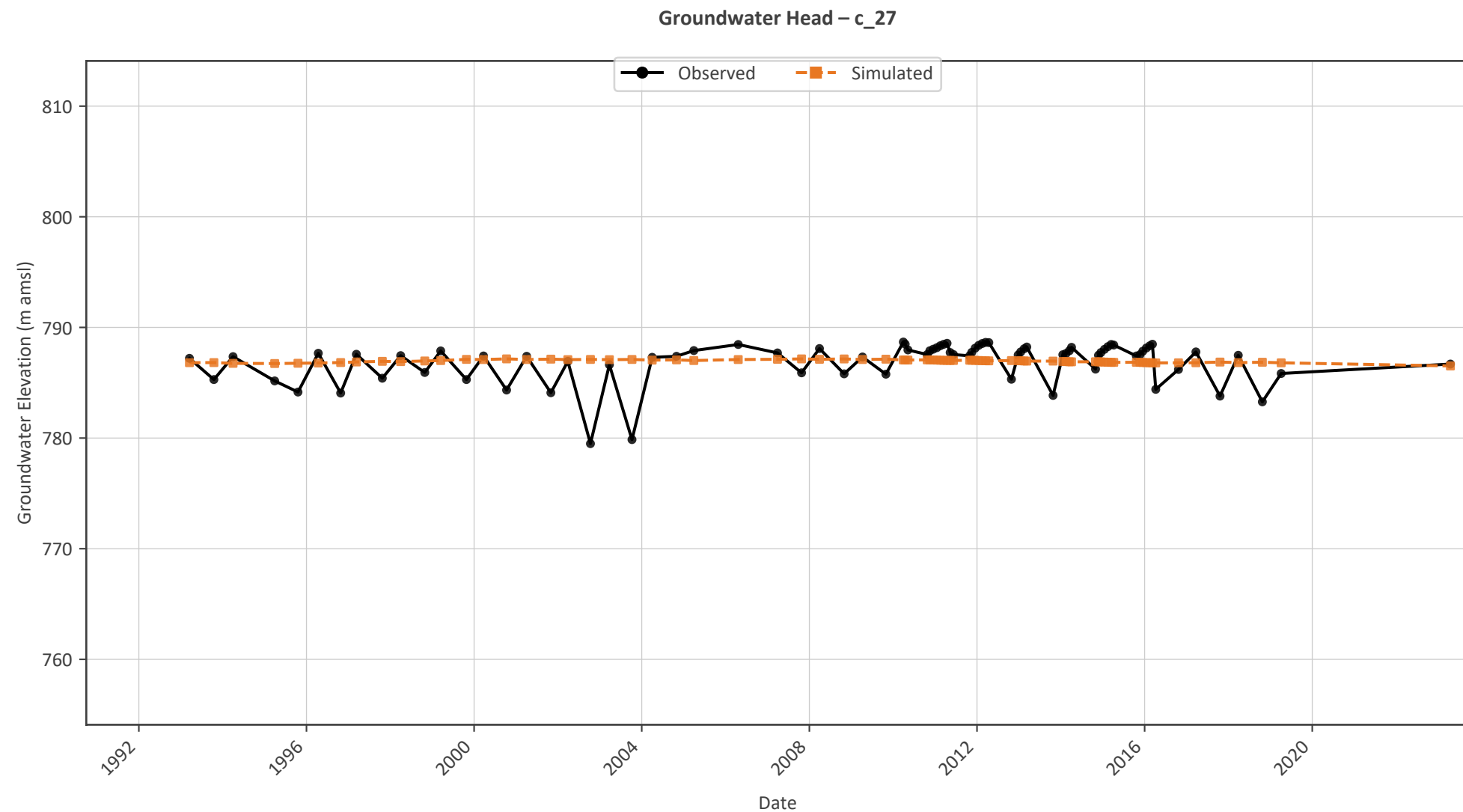




**Figure 23. Groundwater head calibration hydrograph and well location map for observation well c\_25 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

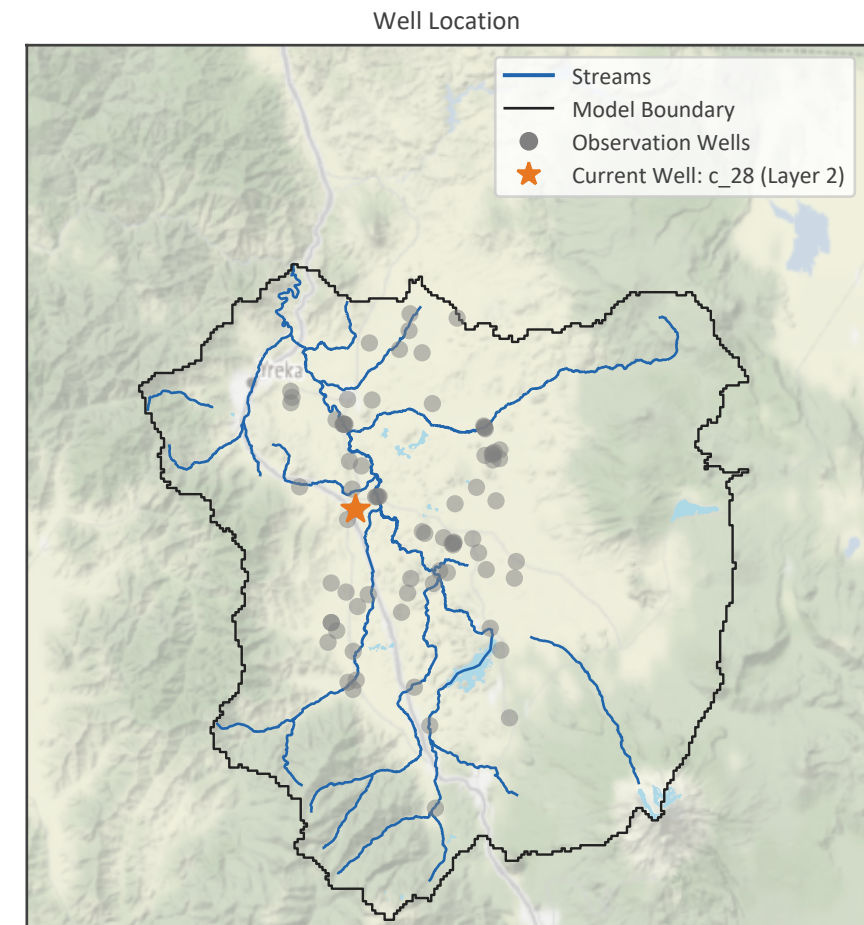
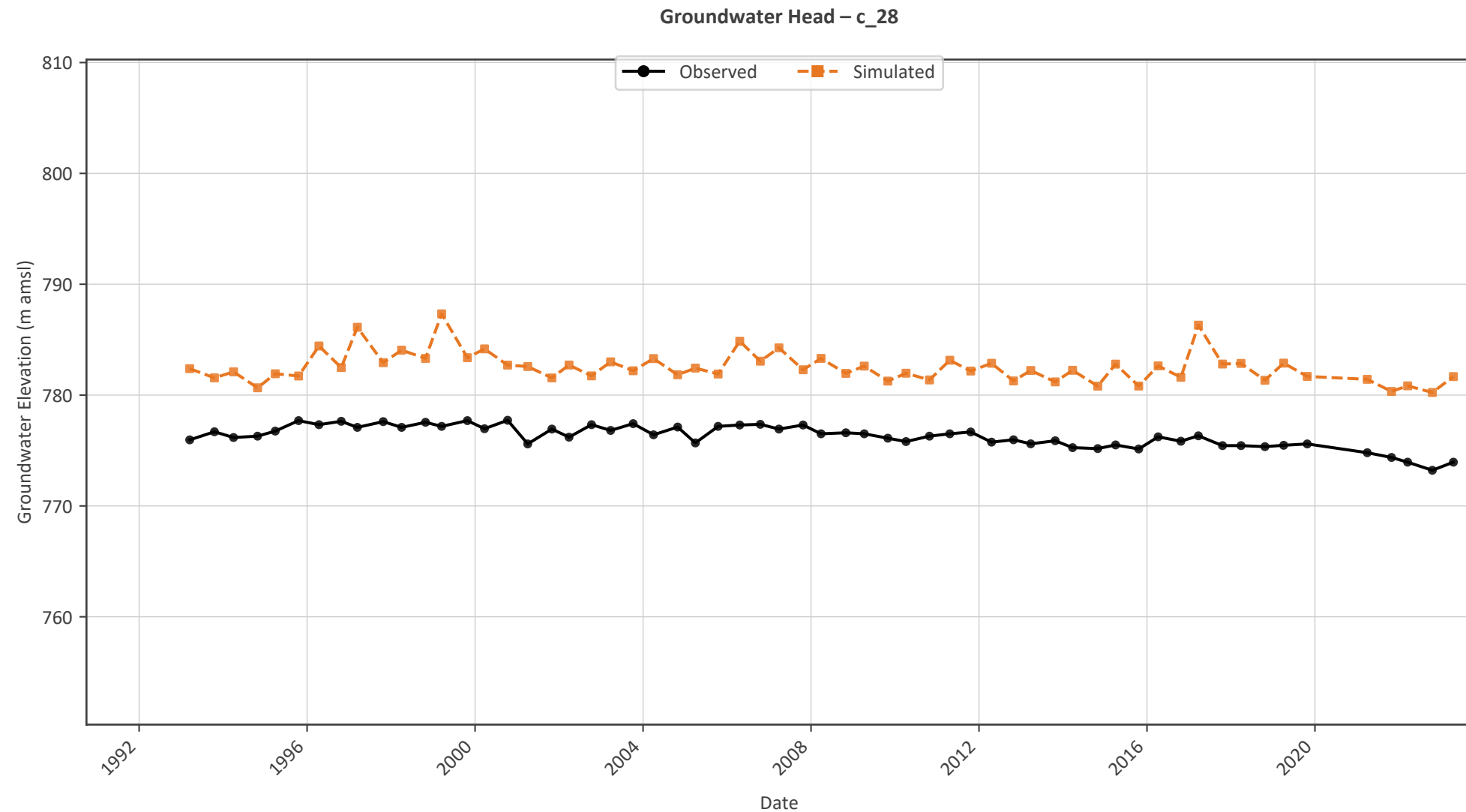


**Figure 24. Groundwater head calibration hydrograph and well location map for observation well c\_26 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

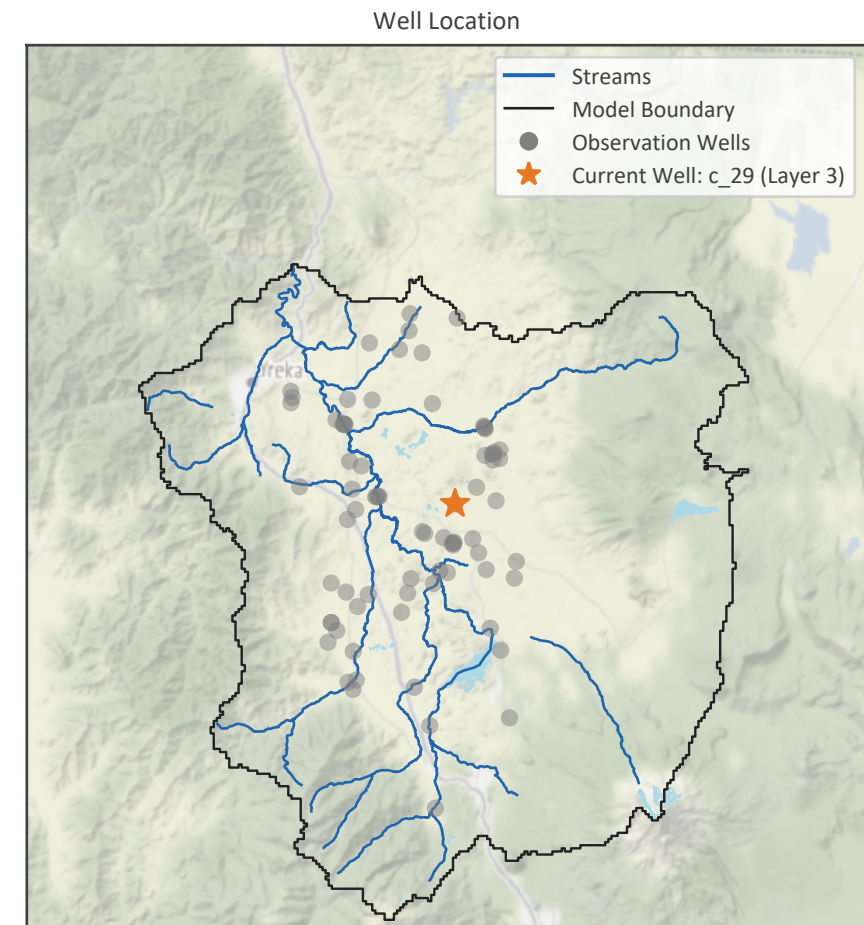
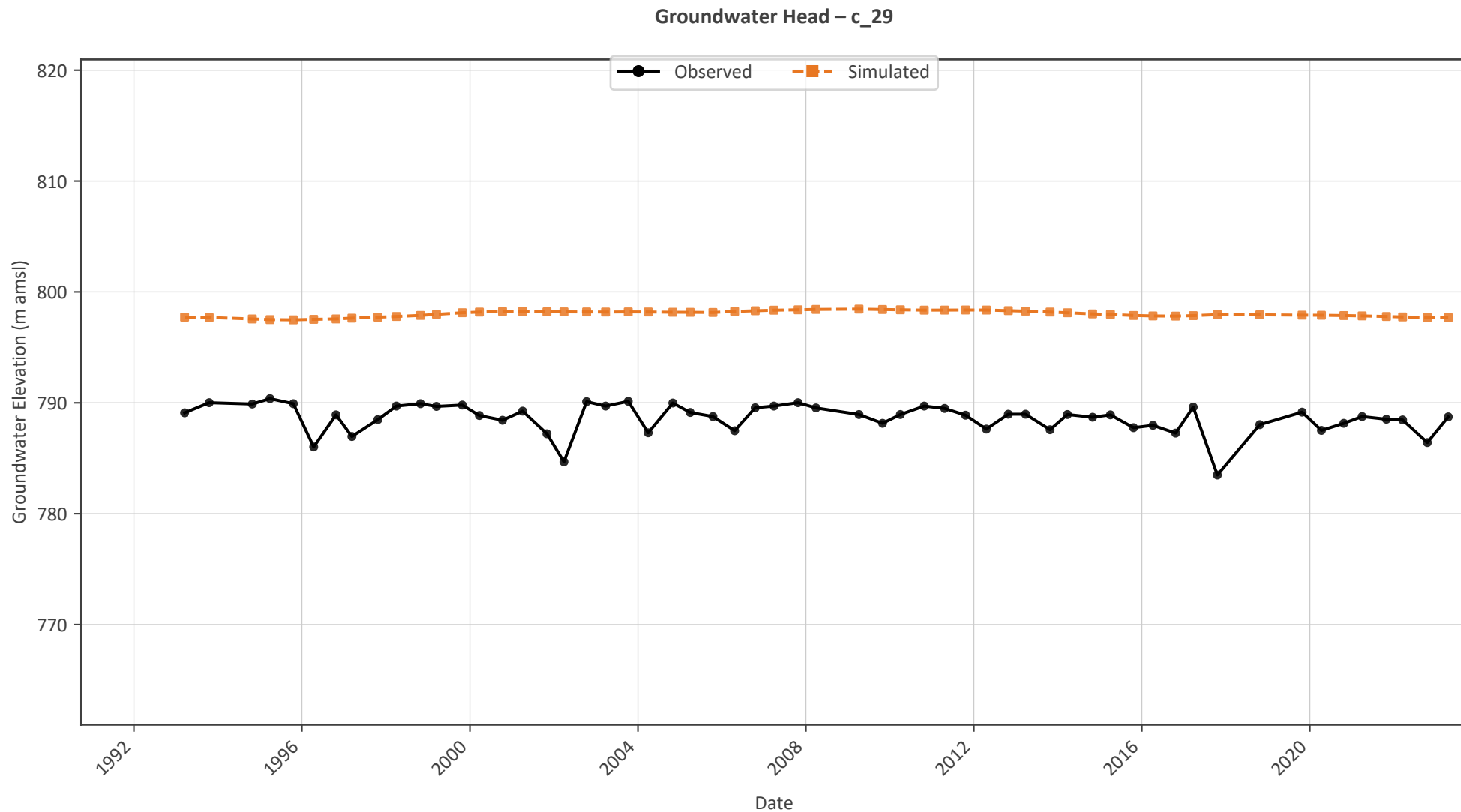


**Figure 25. Groundwater head calibration hydrograph and well location map for observation well c\_27 (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

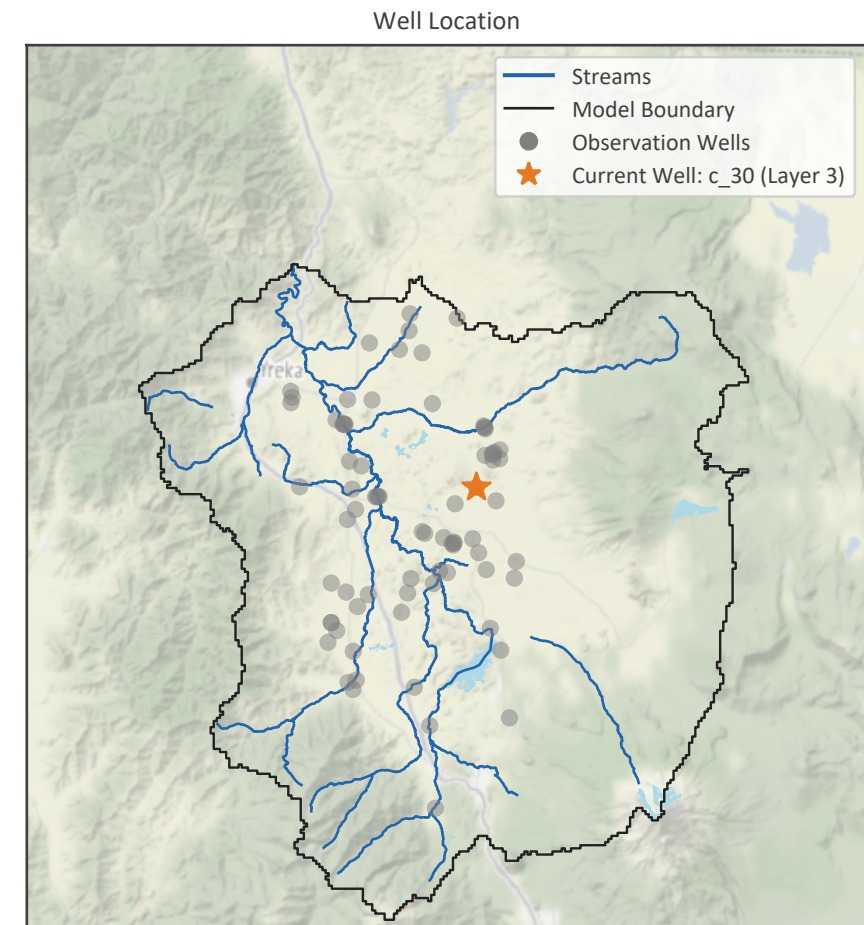
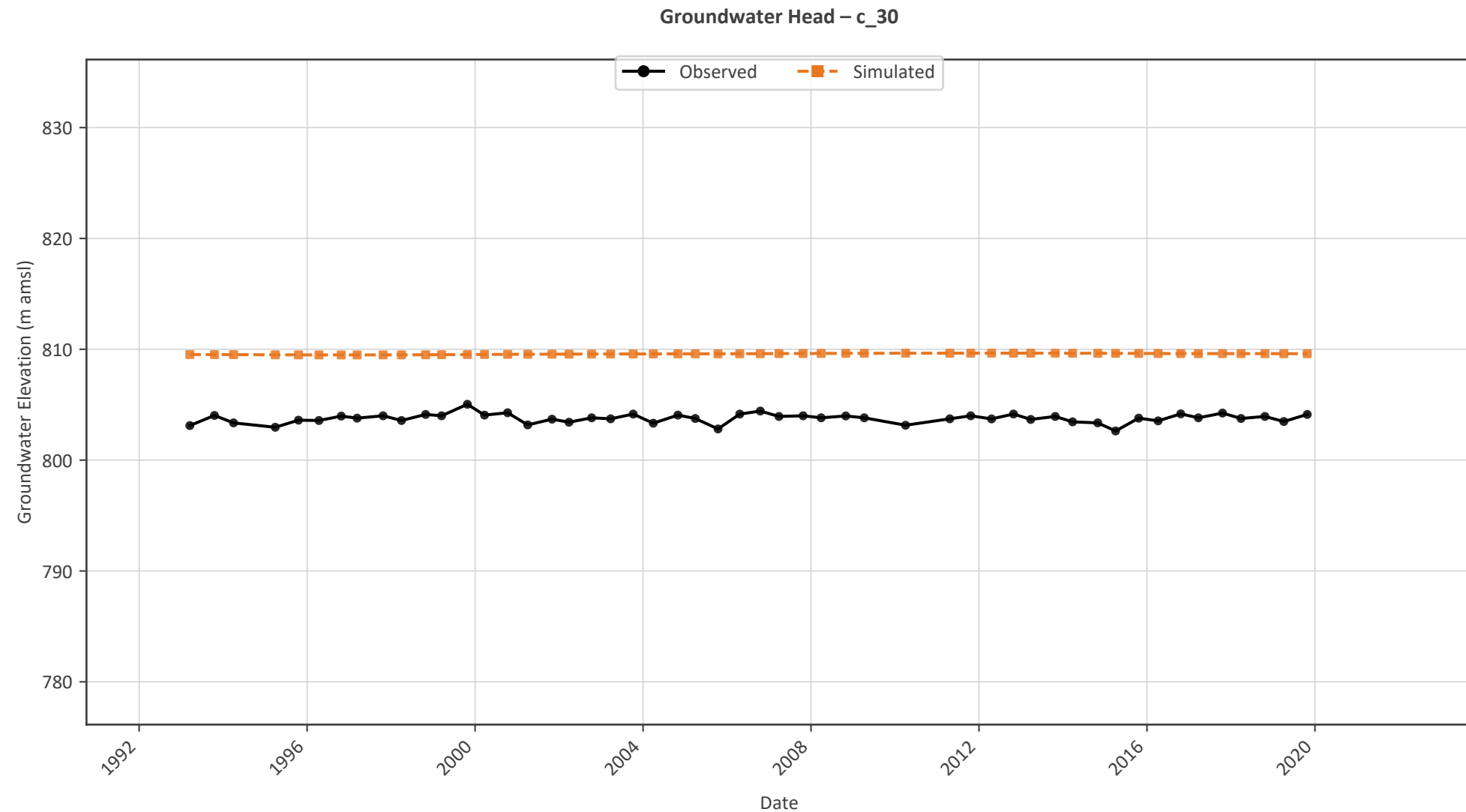




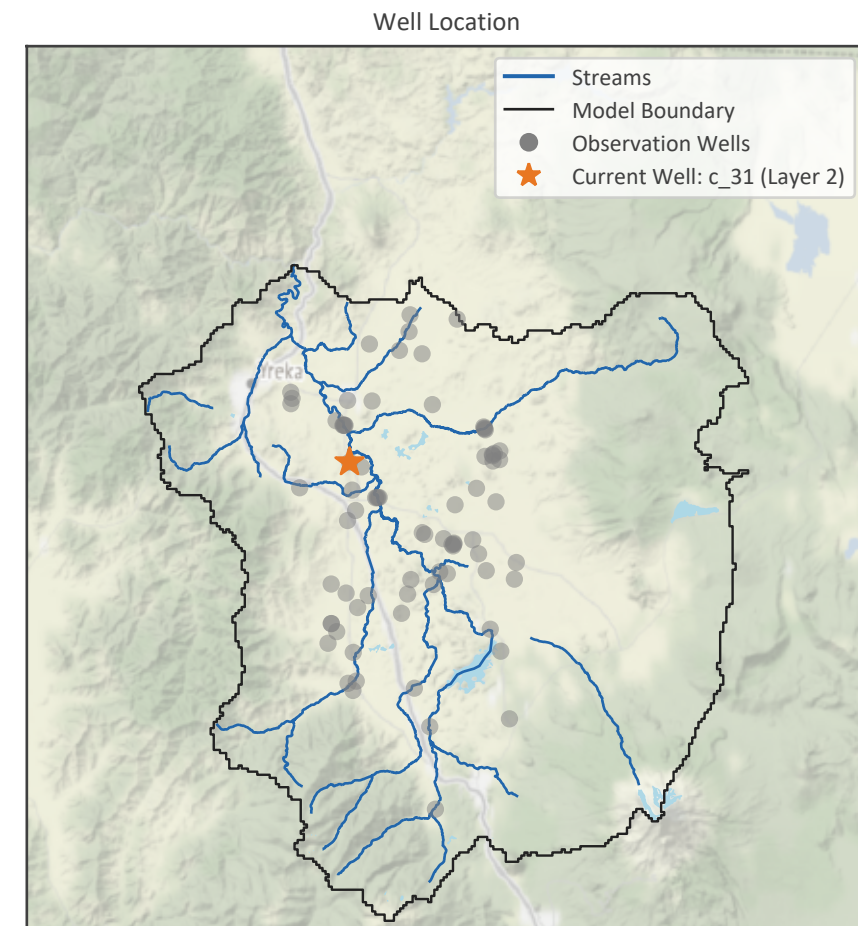
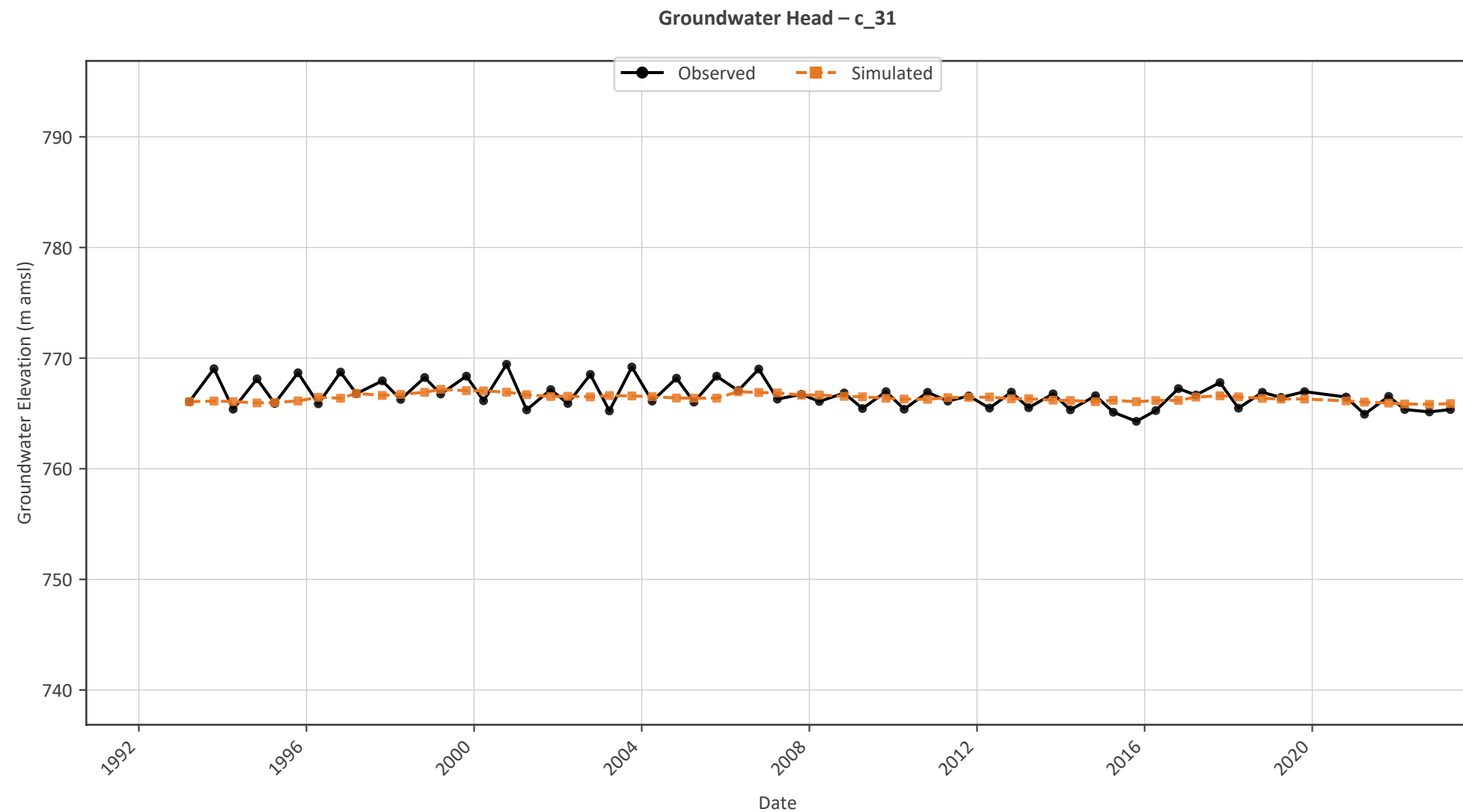
**Figure 26. Groundwater head calibration hydrograph and well location map for observation well c\_28 (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



**Figure 27. Groundwater head calibration hydrograph and well location map for observation well c\_29 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

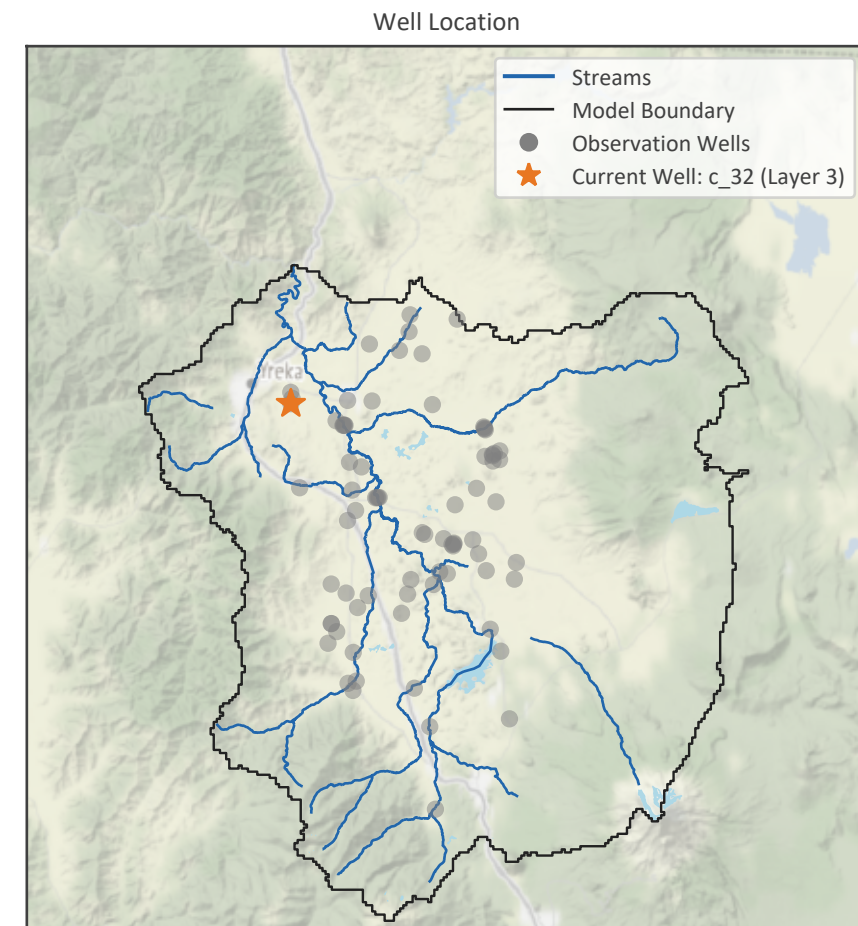
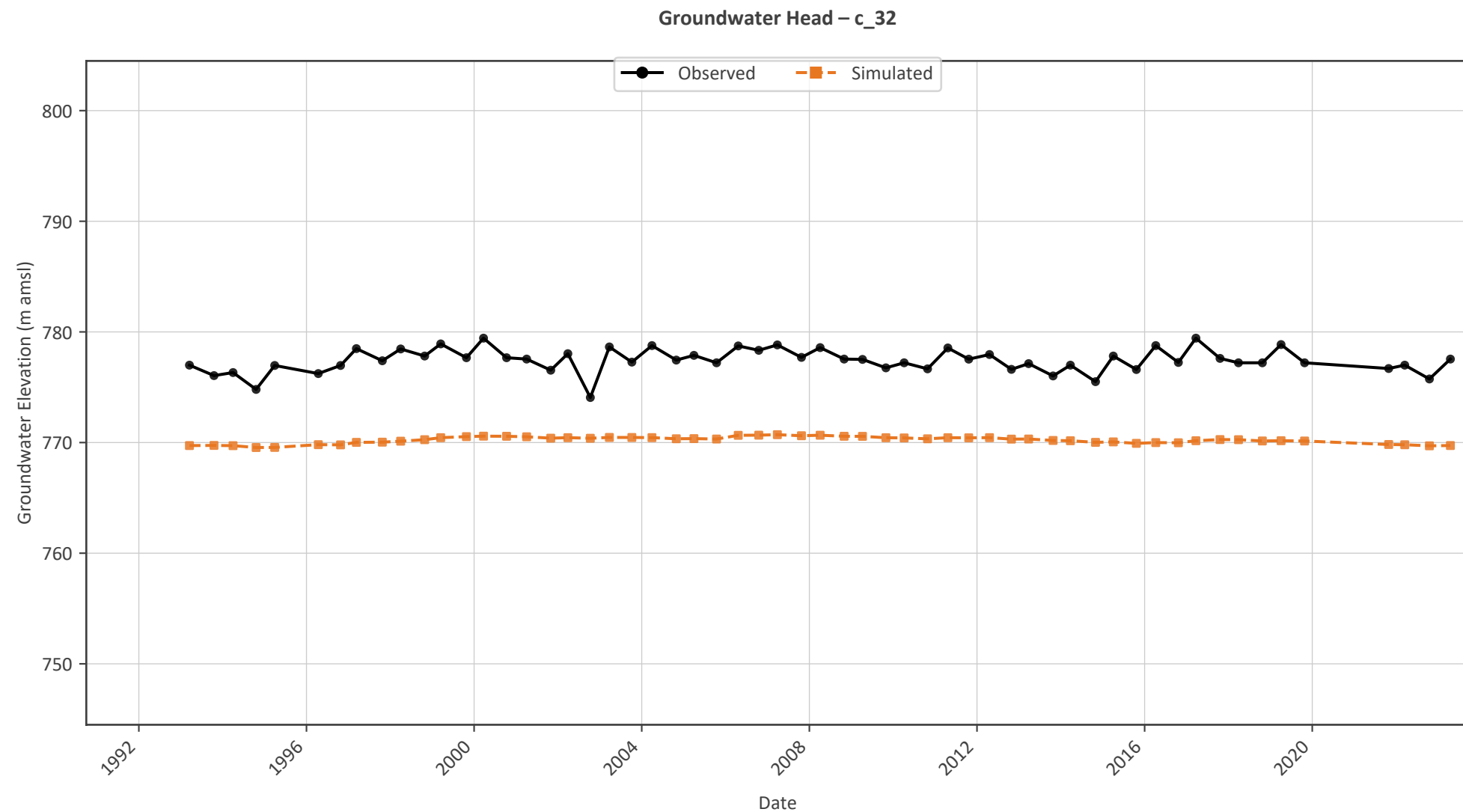


**Figure 28. Groundwater head calibration hydrograph and well location map for observation well c\_30 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

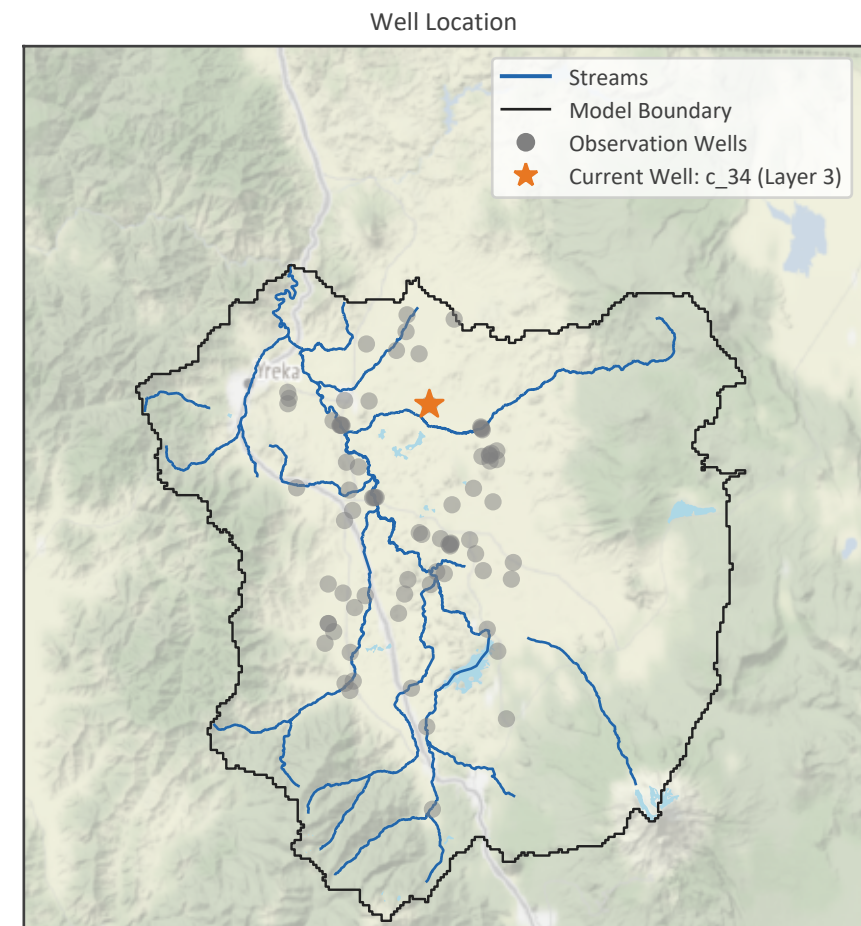
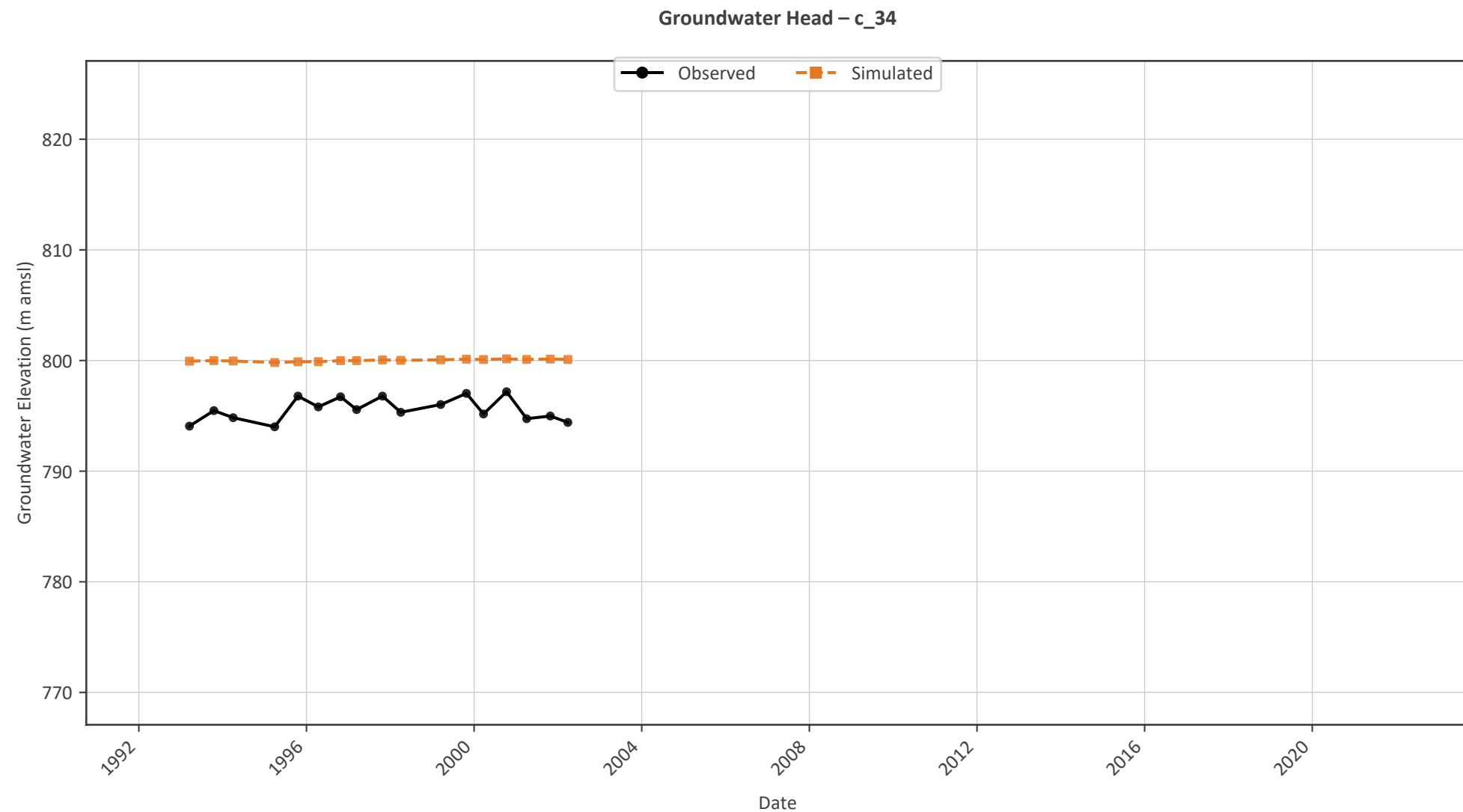


**Figure 29. Groundwater head calibration hydrograph and well location map for observation well c\_31 (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

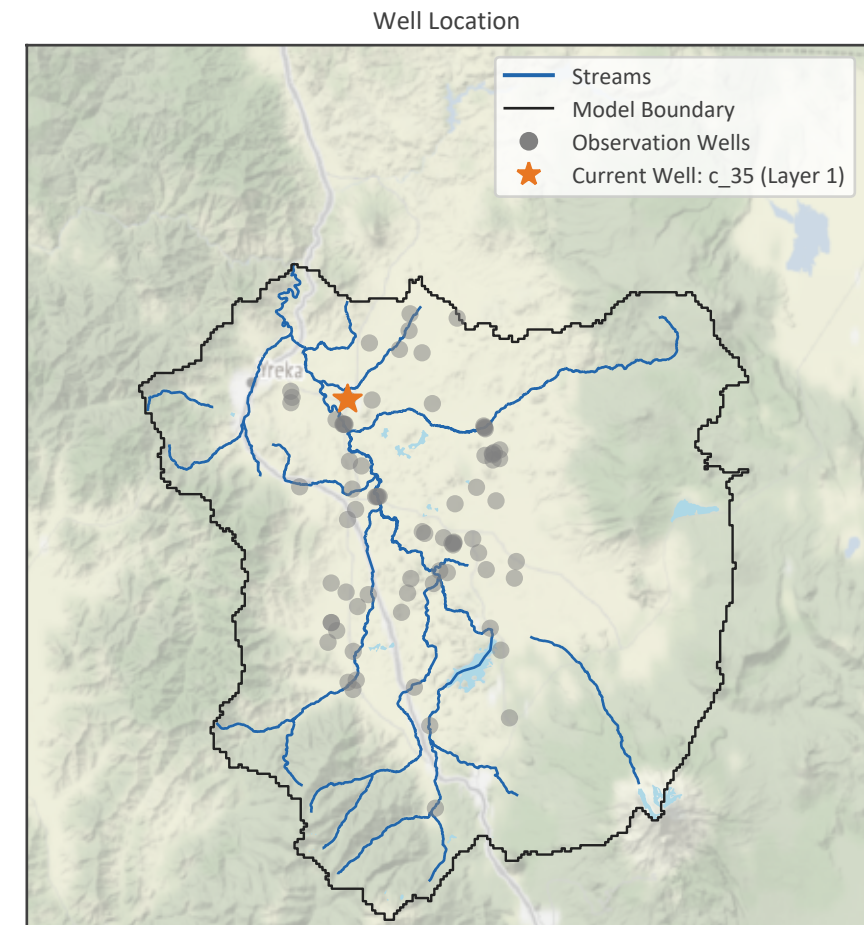
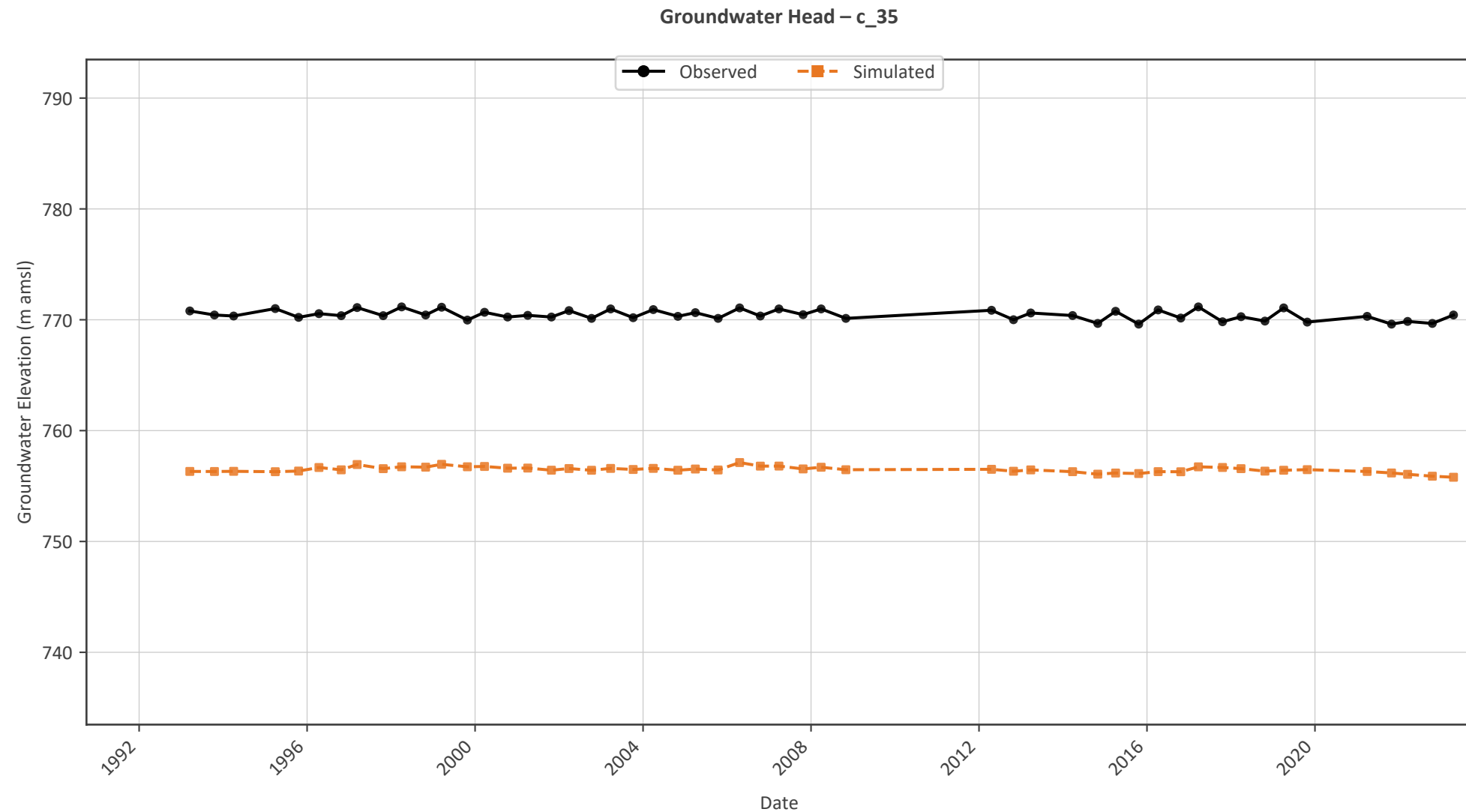




**Figure 30. Groundwater head calibration hydrograph and well location map for observation well c\_32 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

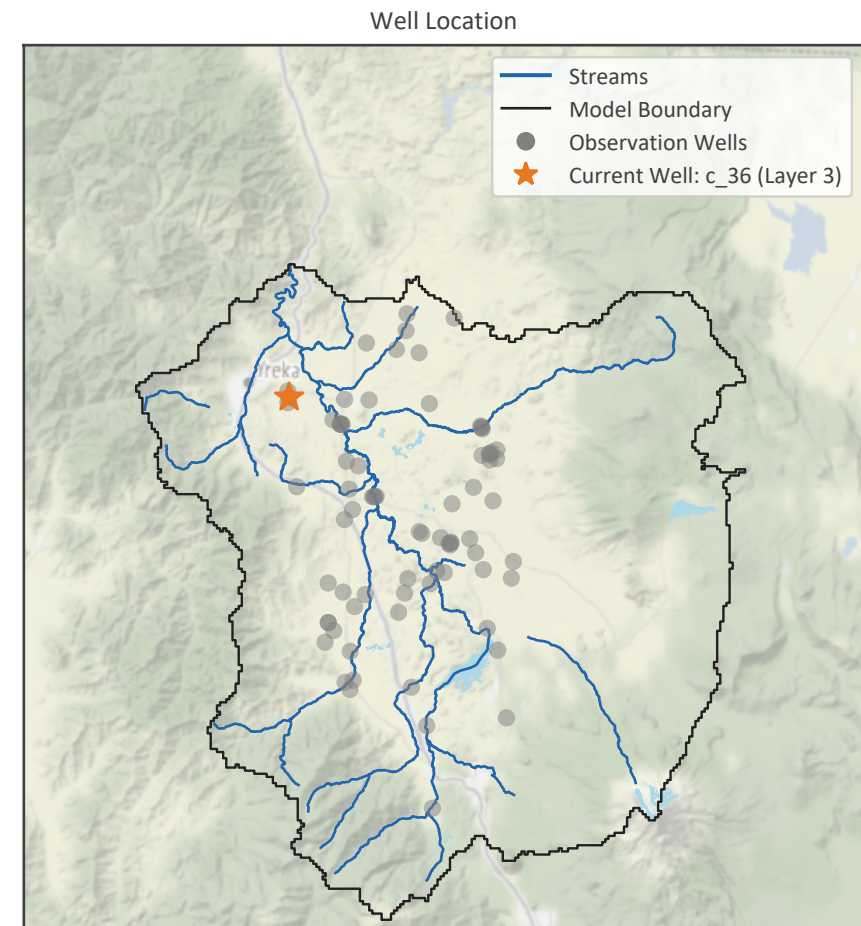
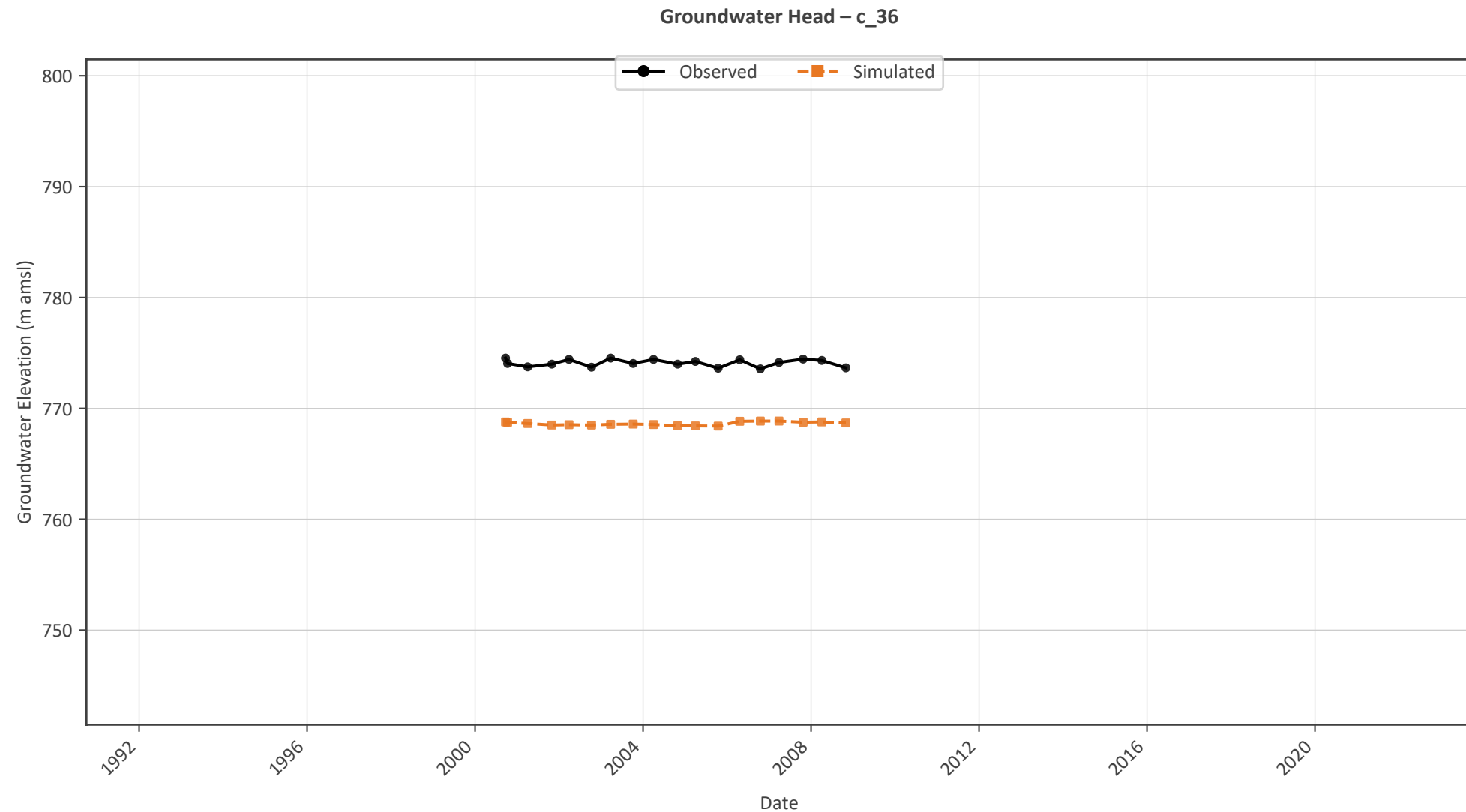


**Figure 31. Groundwater head calibration hydrograph and well location map for observation well c\_34 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

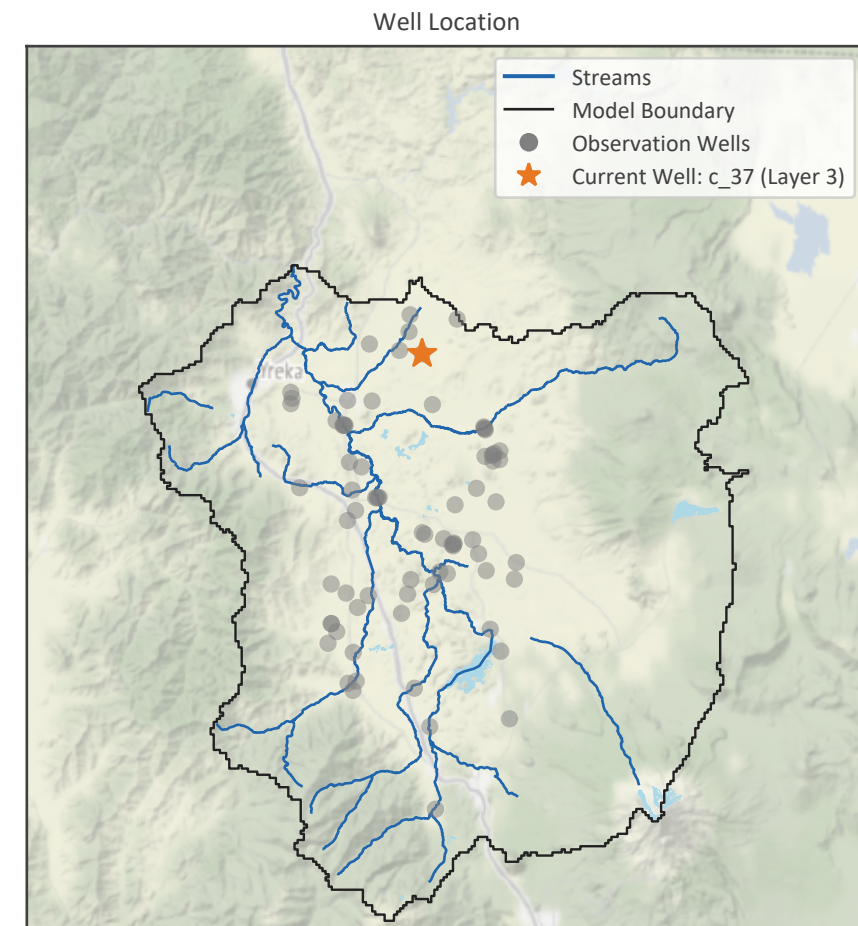
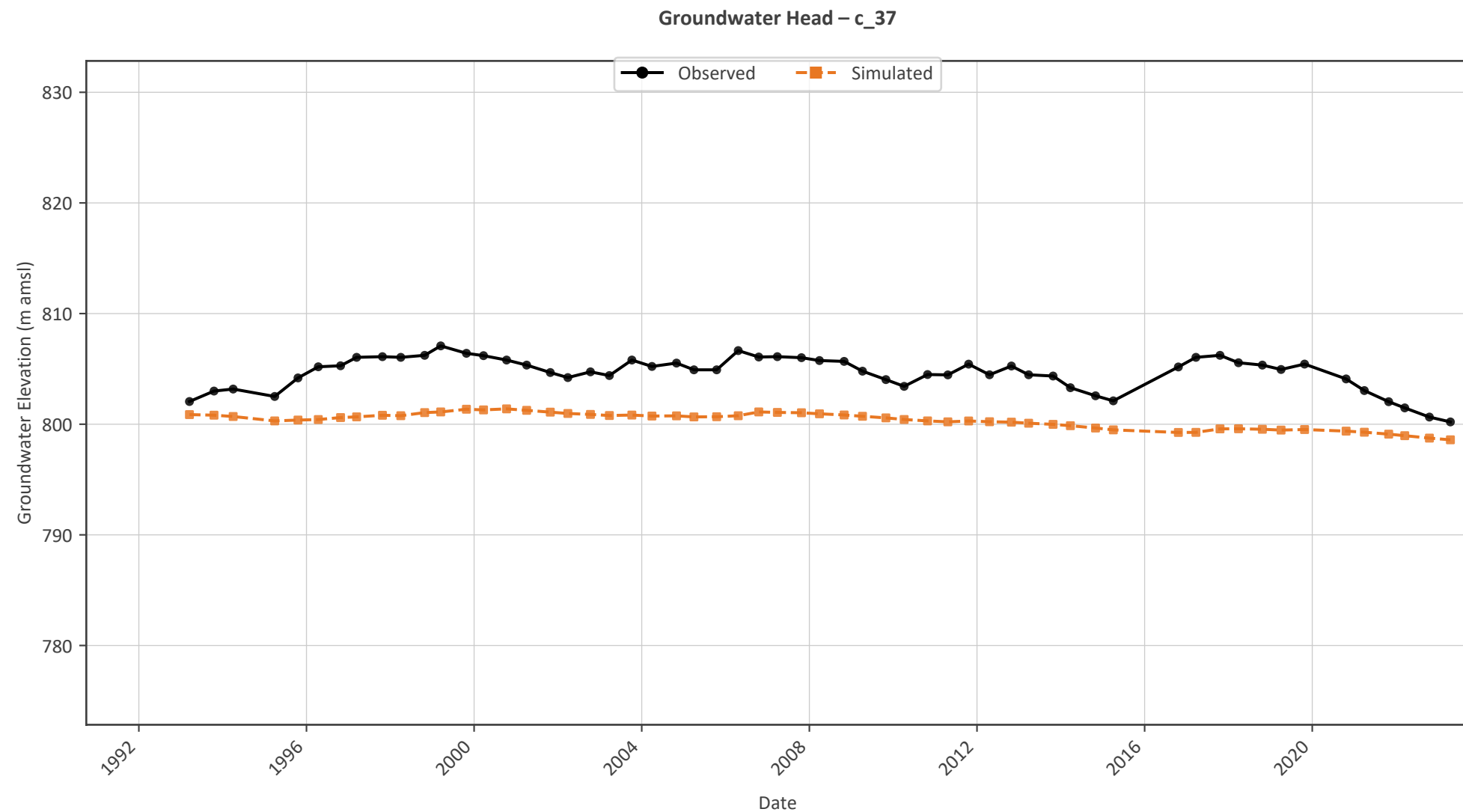


**Figure 32. Groundwater head calibration hydrograph and well location map for observation well c\_35 (Model Layer 1). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

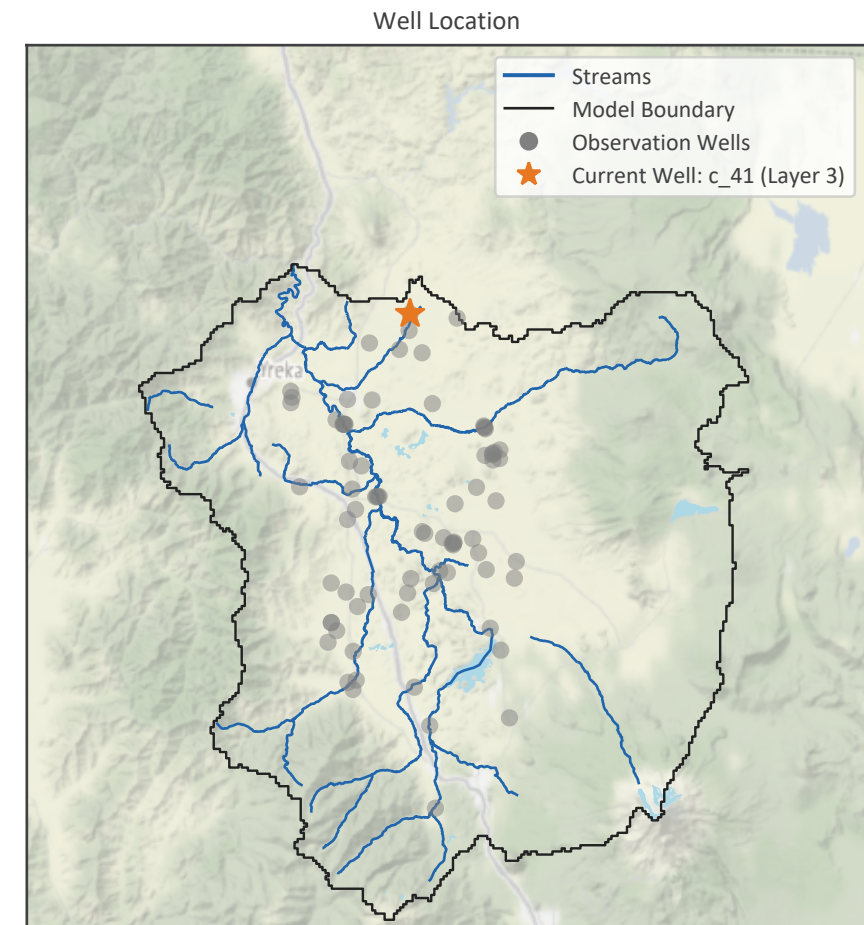
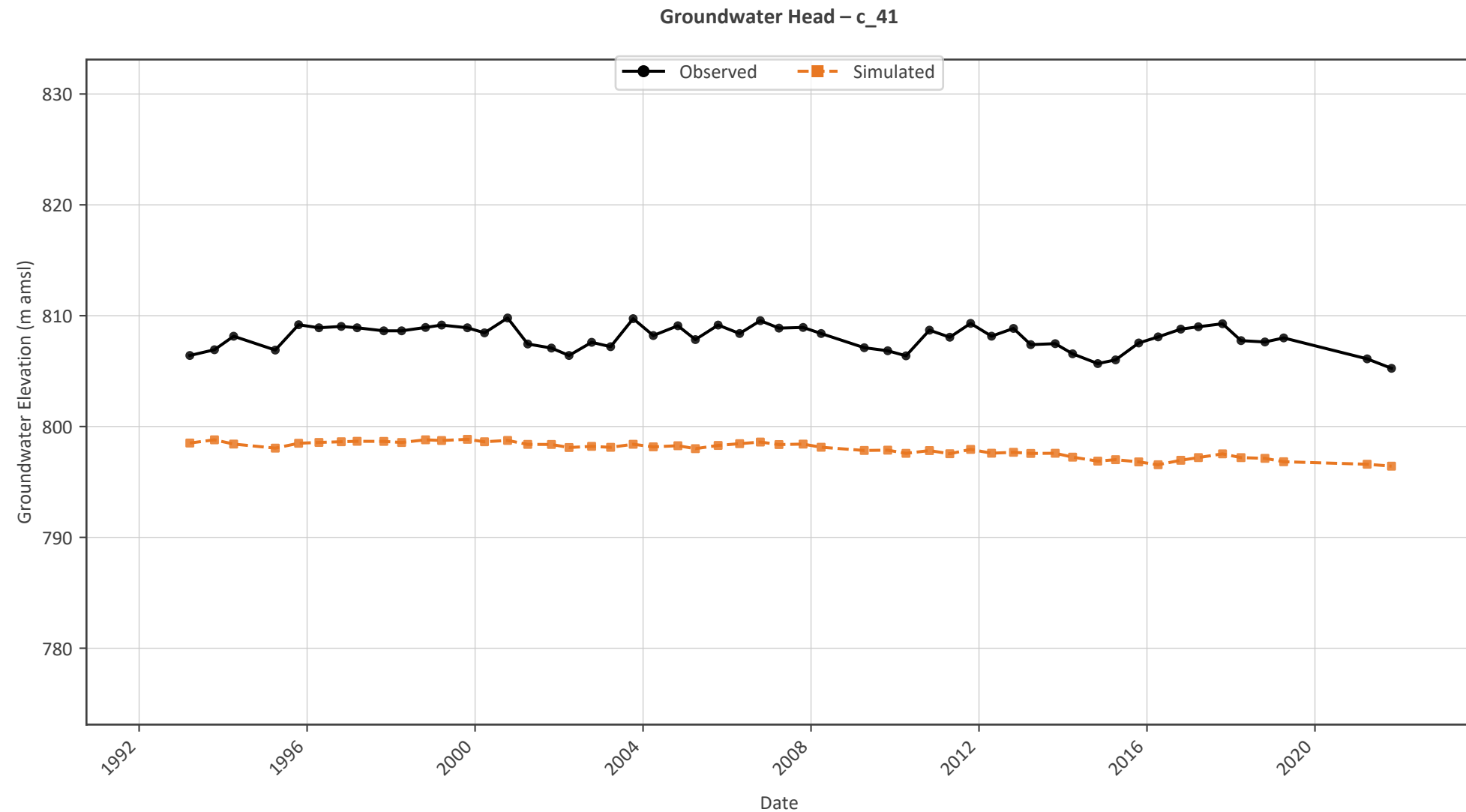




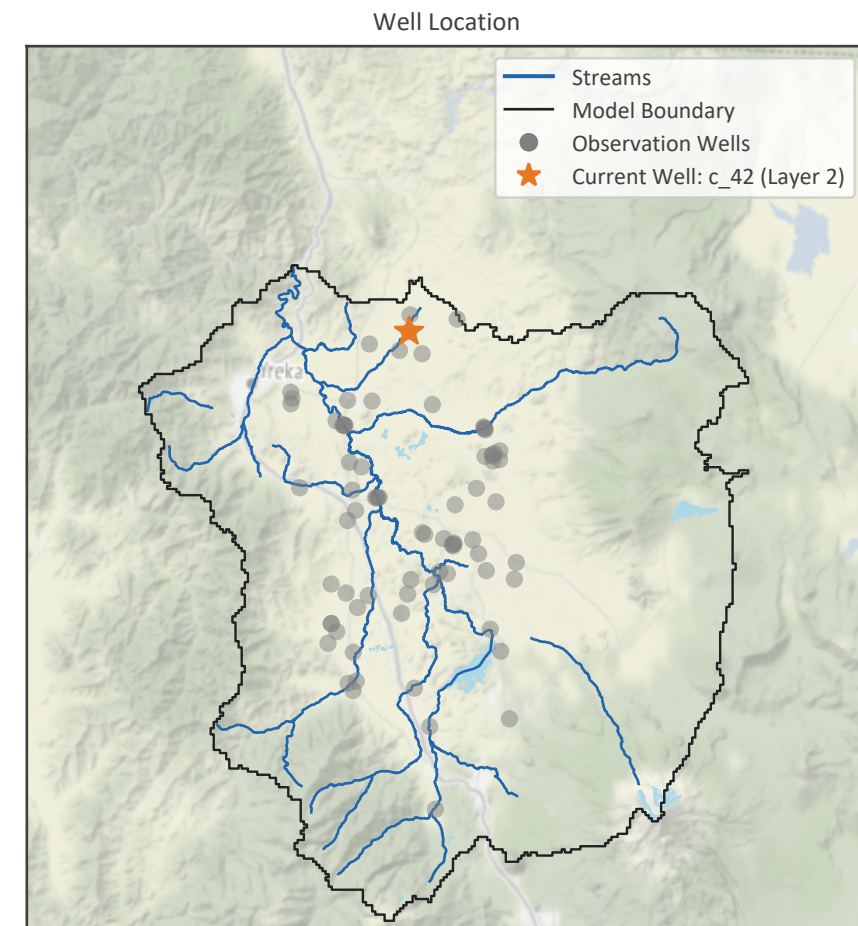
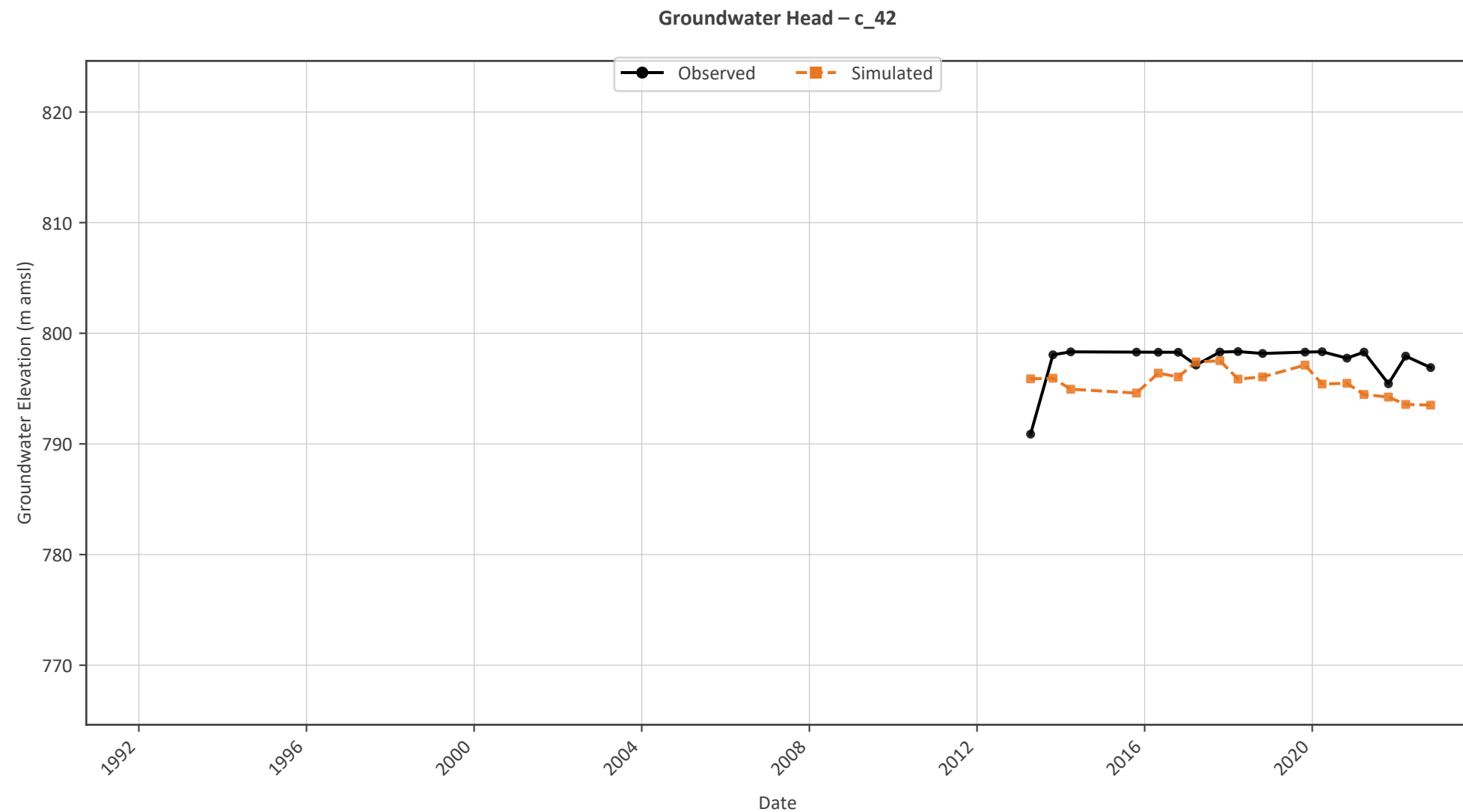
**Figure 33. Groundwater head calibration hydrograph and well location map for observation well c\_36 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



**Figure 34. Groundwater head calibration hydrograph and well location map for observation well c\_37 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

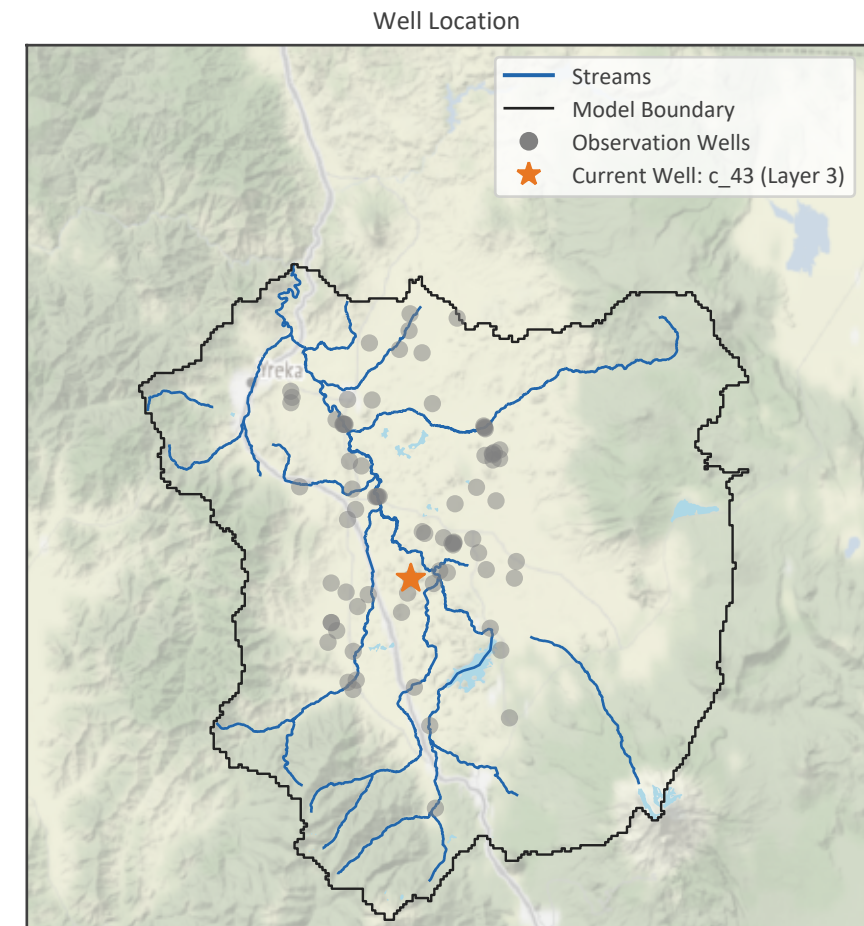
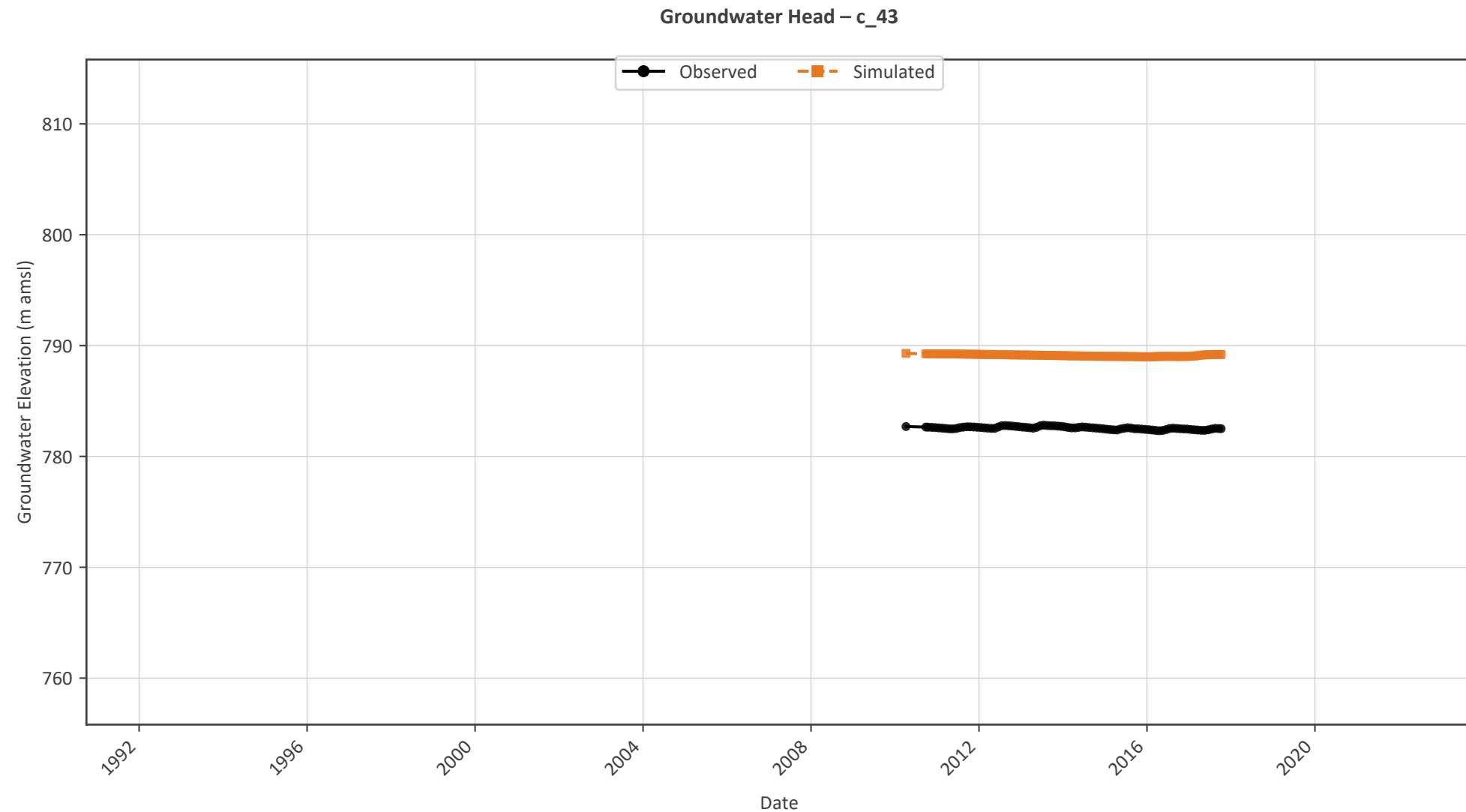


**Figure 35. Groundwater head calibration hydrograph and well location map for observation well c\_41 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



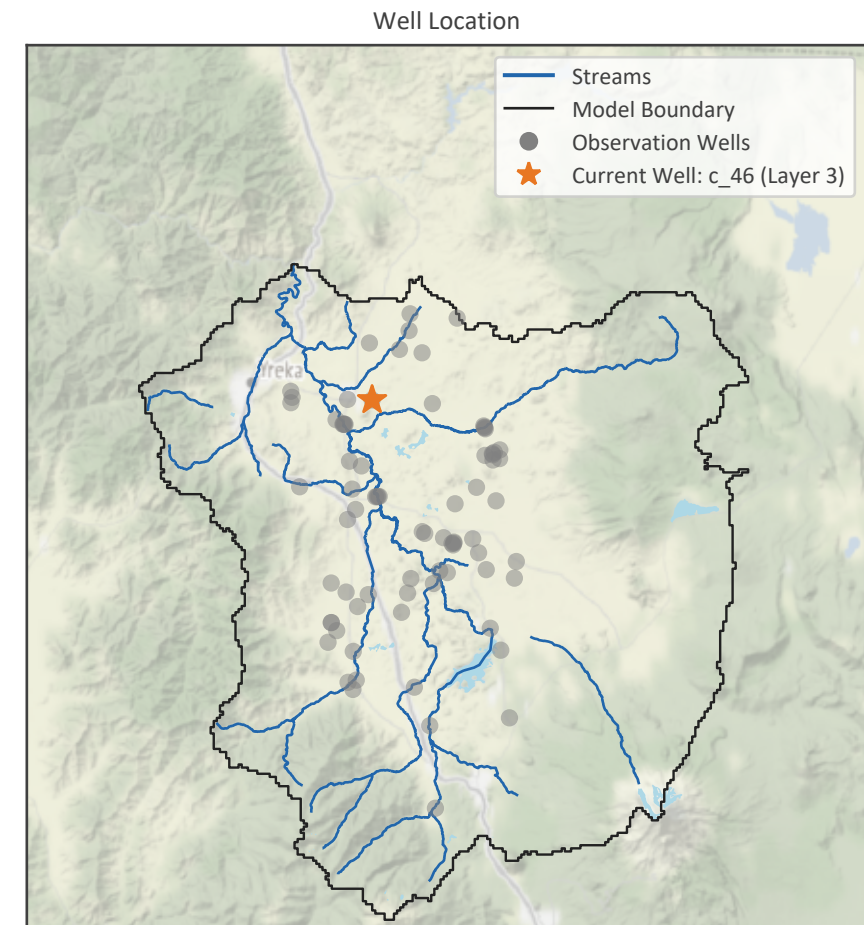
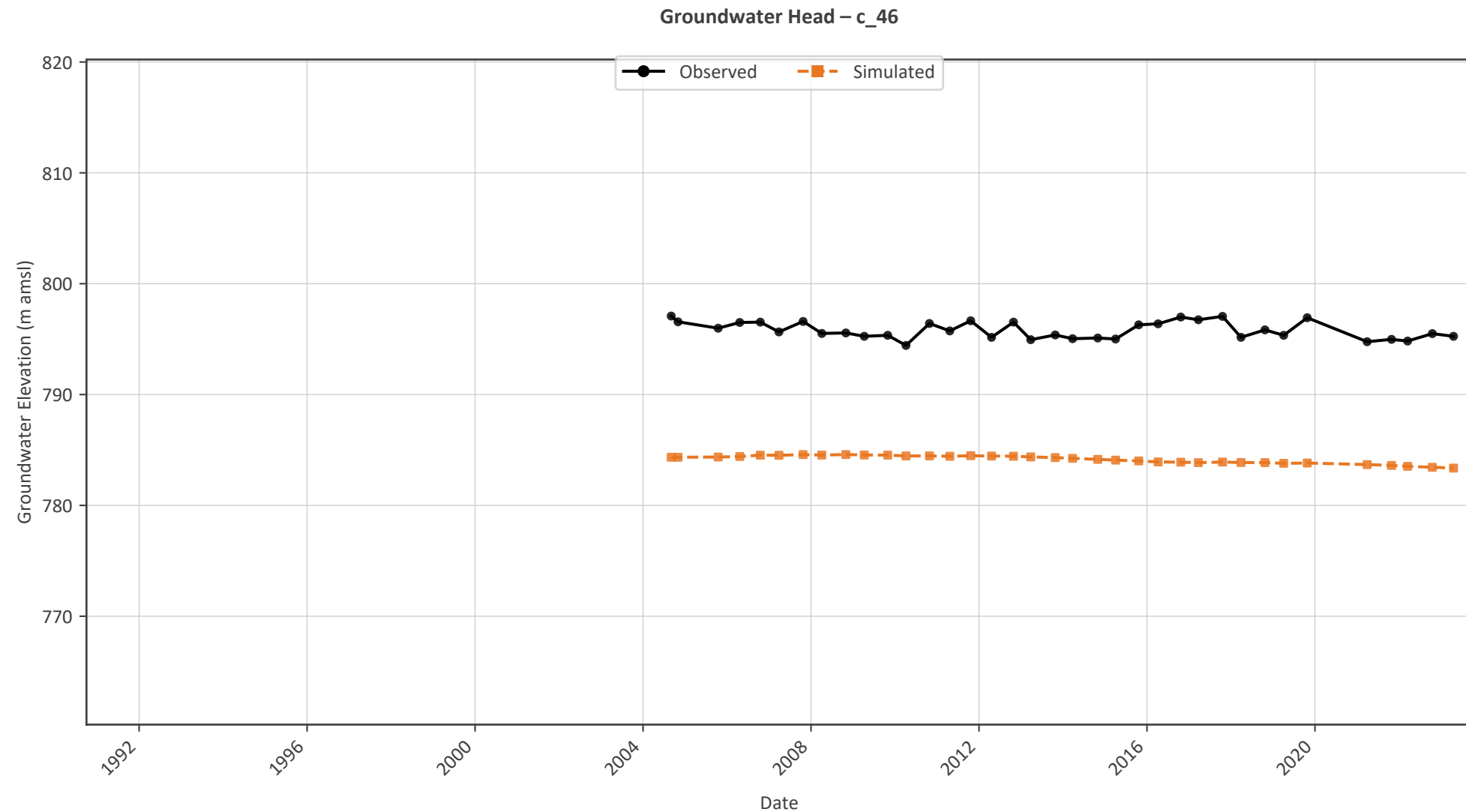
**Figure 36. Groundwater head calibration hydrograph and well location map for observation well c\_42 (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



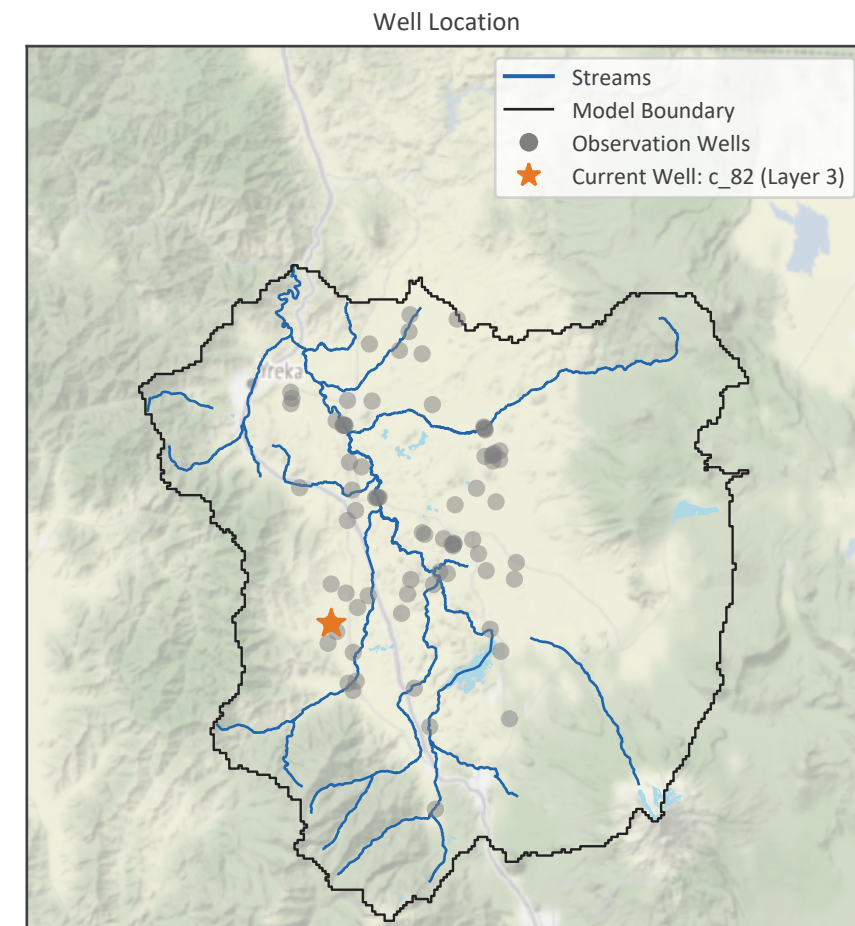
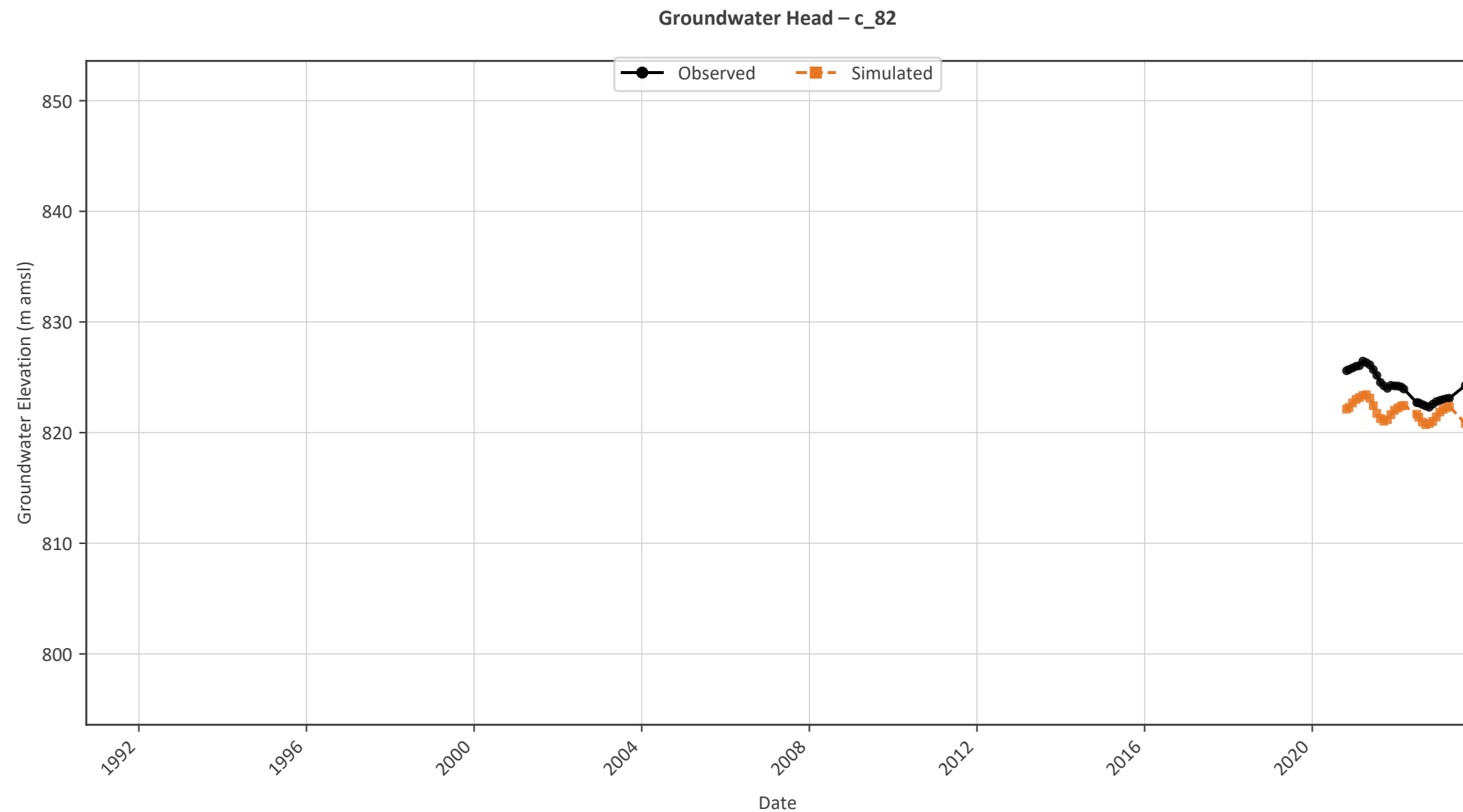


**Figure 37. Groundwater head calibration hydrograph and well location map for observation well c\_43 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

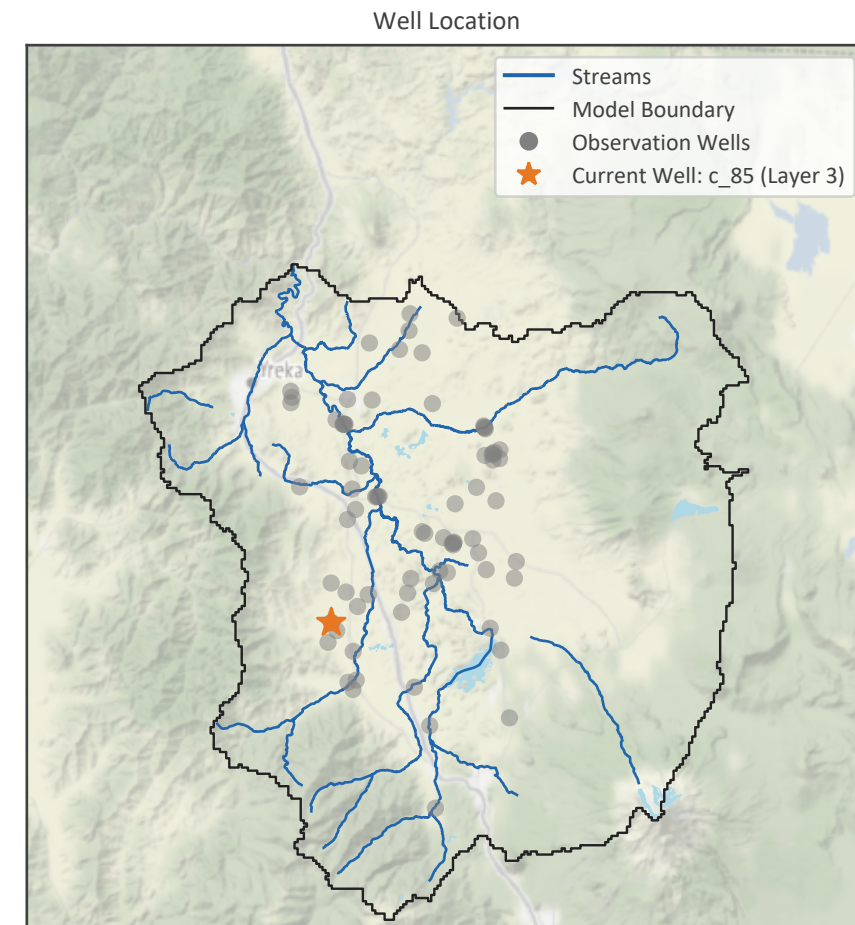
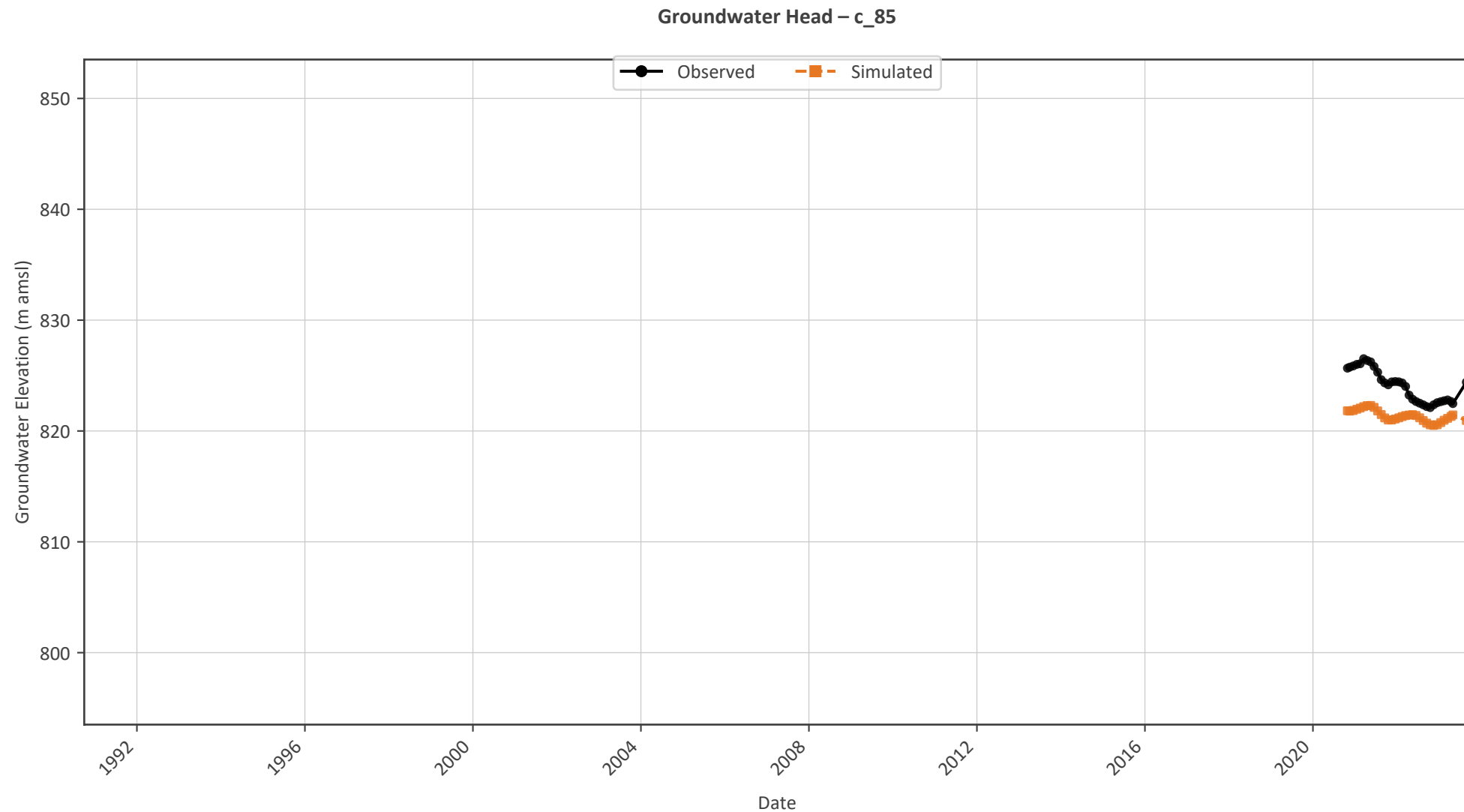




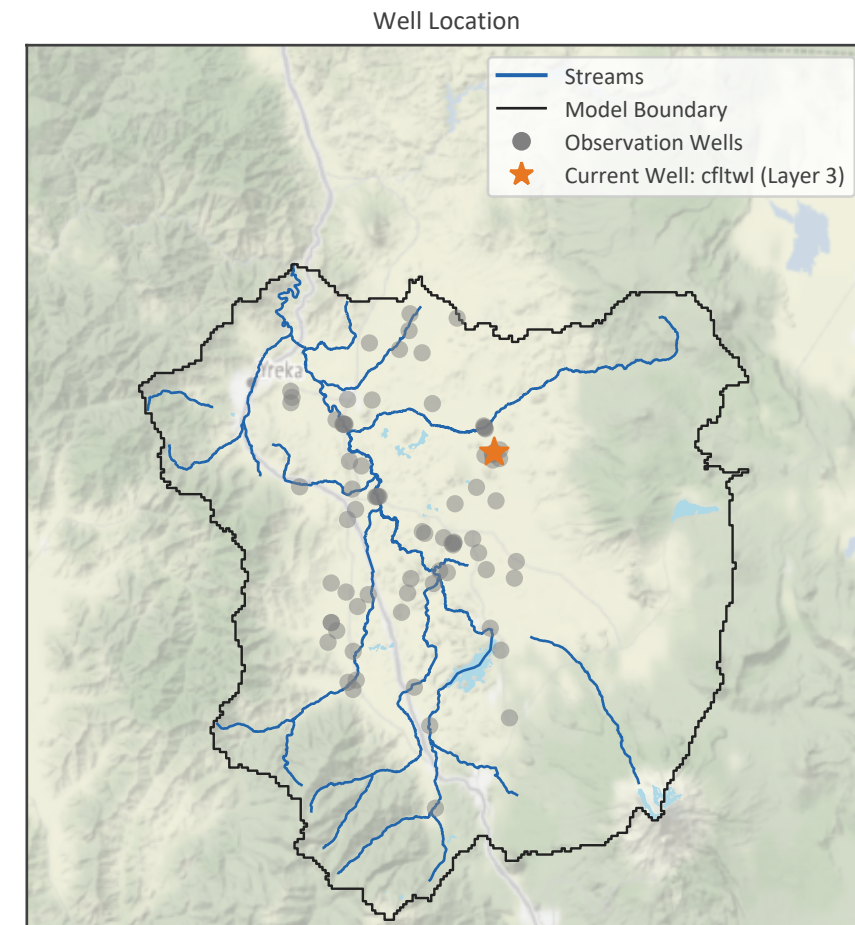
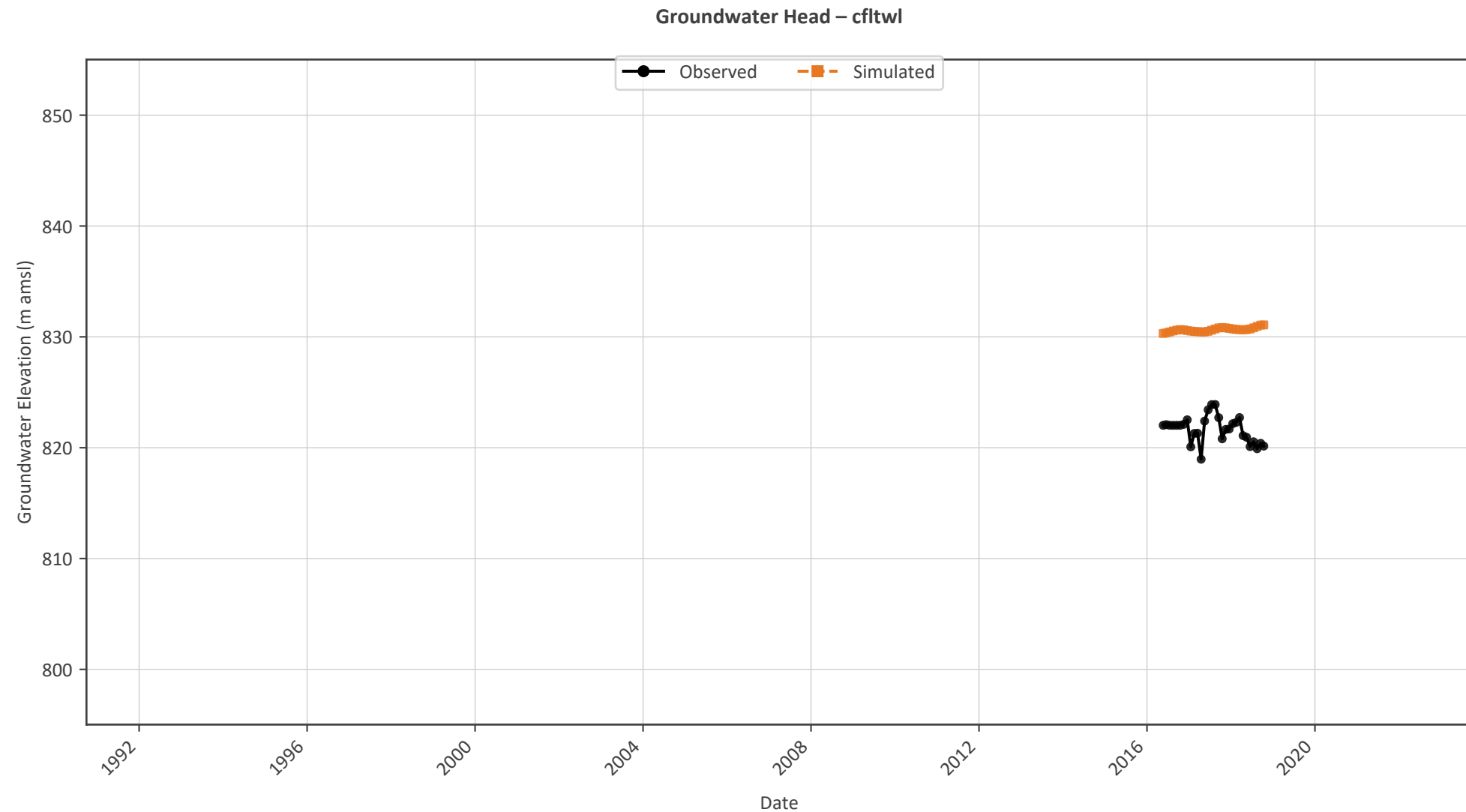
**Figure 38. Groundwater head calibration hydrograph and well location map for observation well c\_46 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



**Figure 39. Groundwater head calibration hydrograph and well location map for observation well c\_82 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

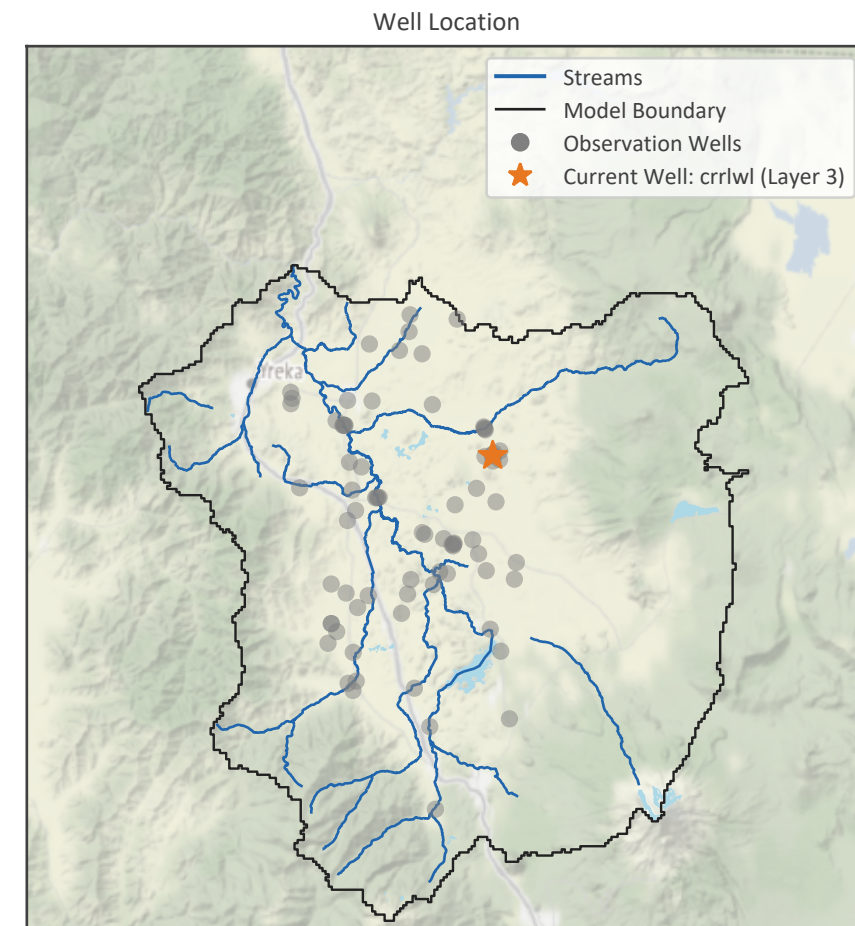
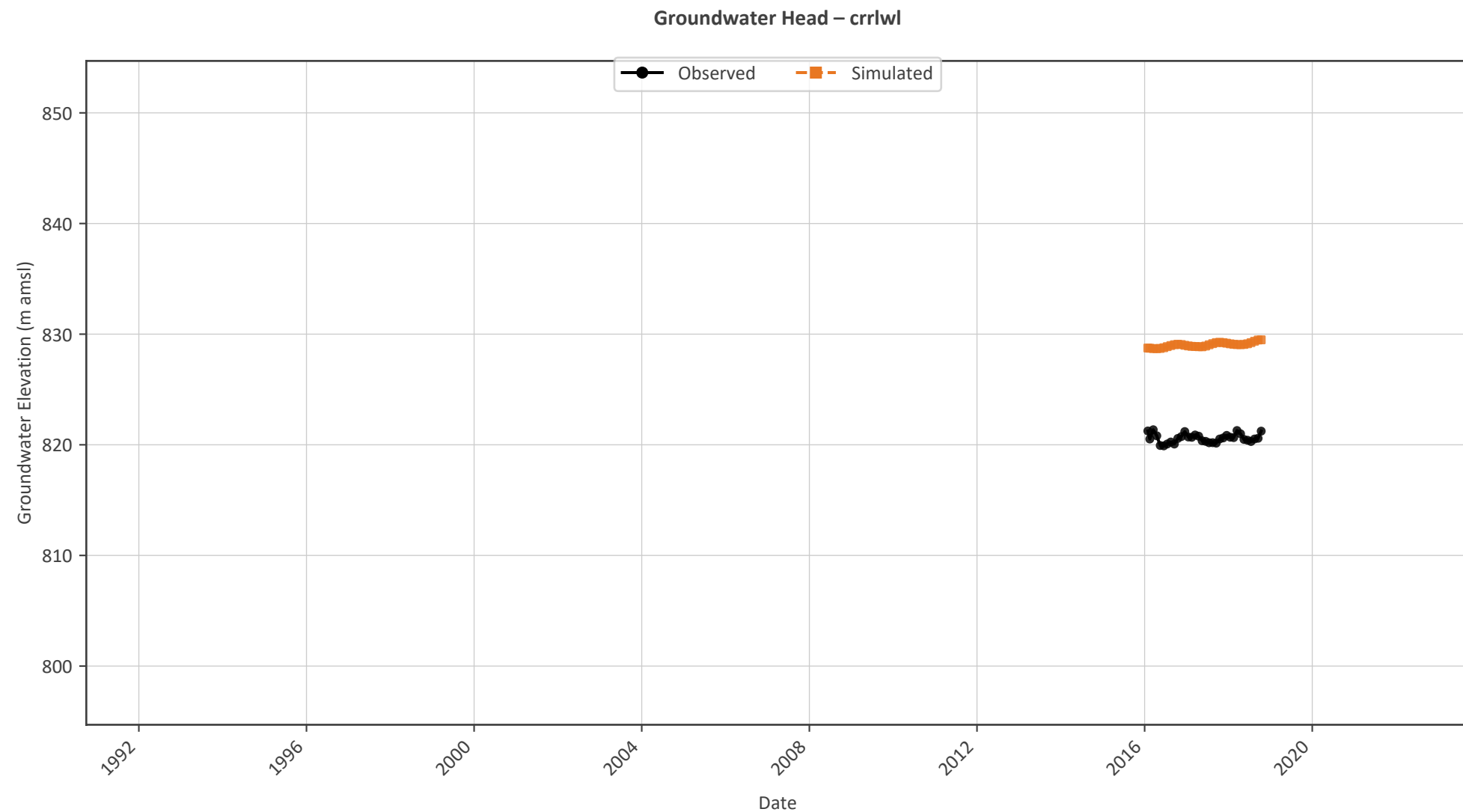


**Figure 40. Groundwater head calibration hydrograph and well location map for observation well c\_85 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



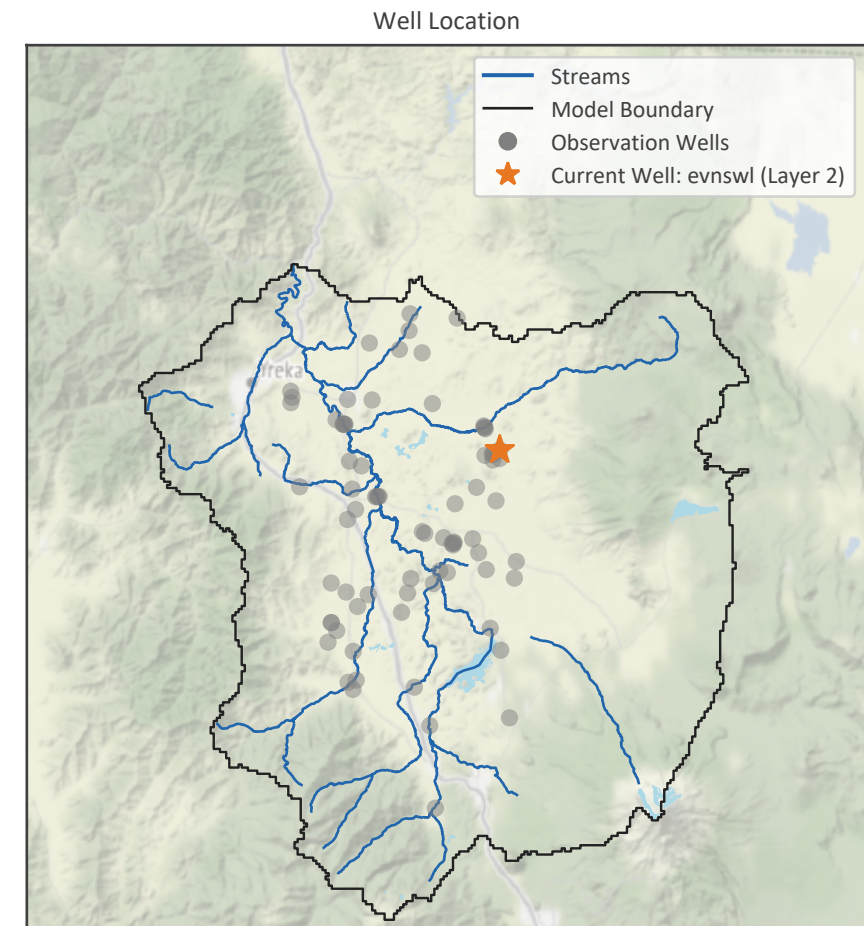
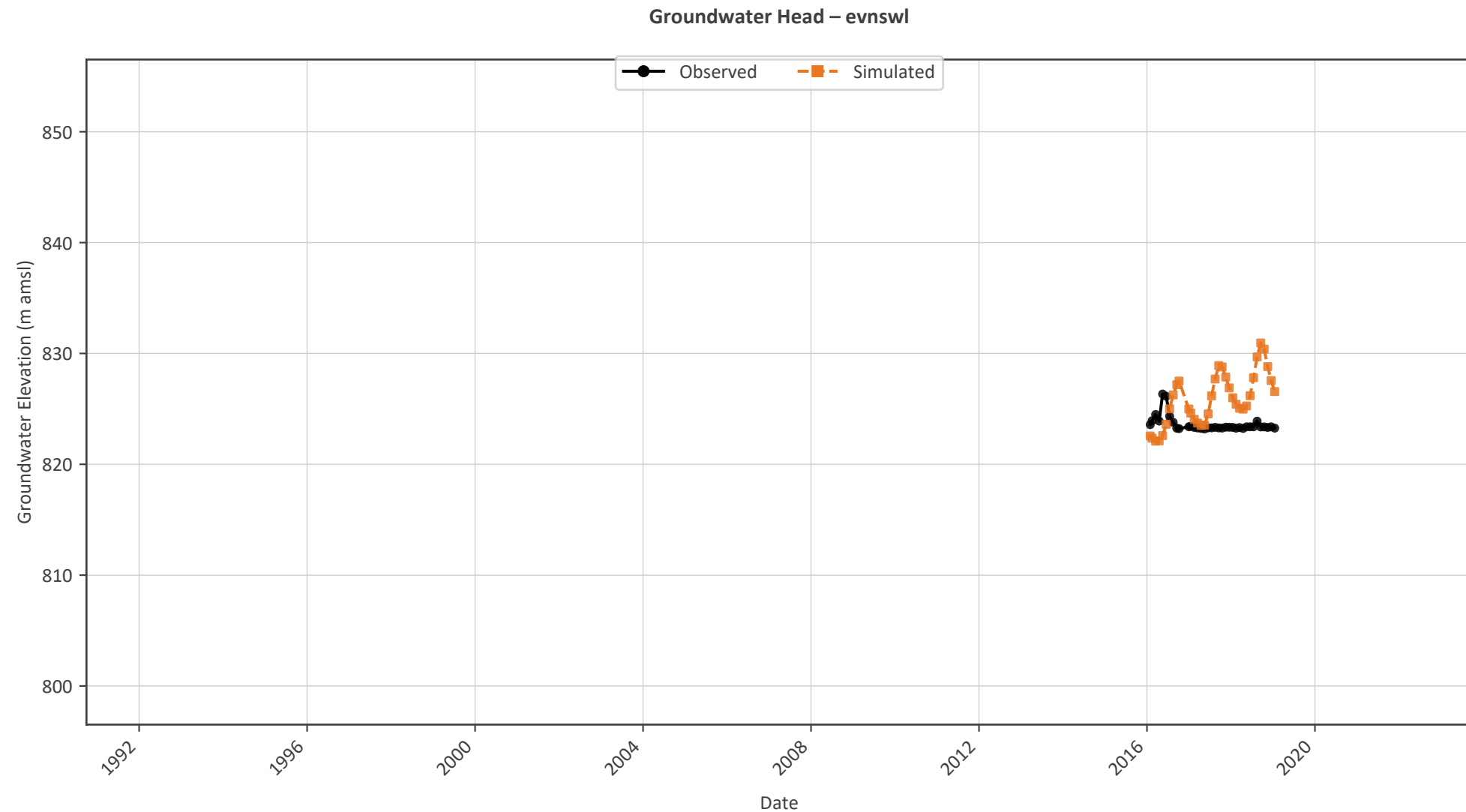
**Figure 41. Groundwater head calibration hydrograph and well location map for observation well cfltwl (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



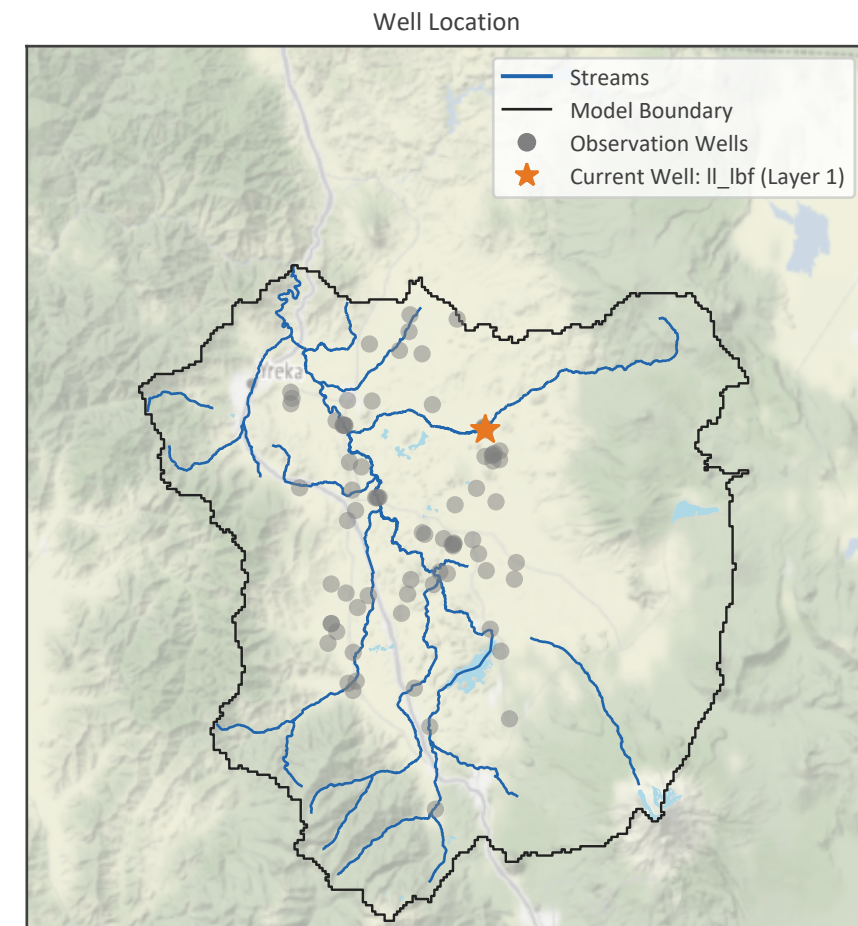
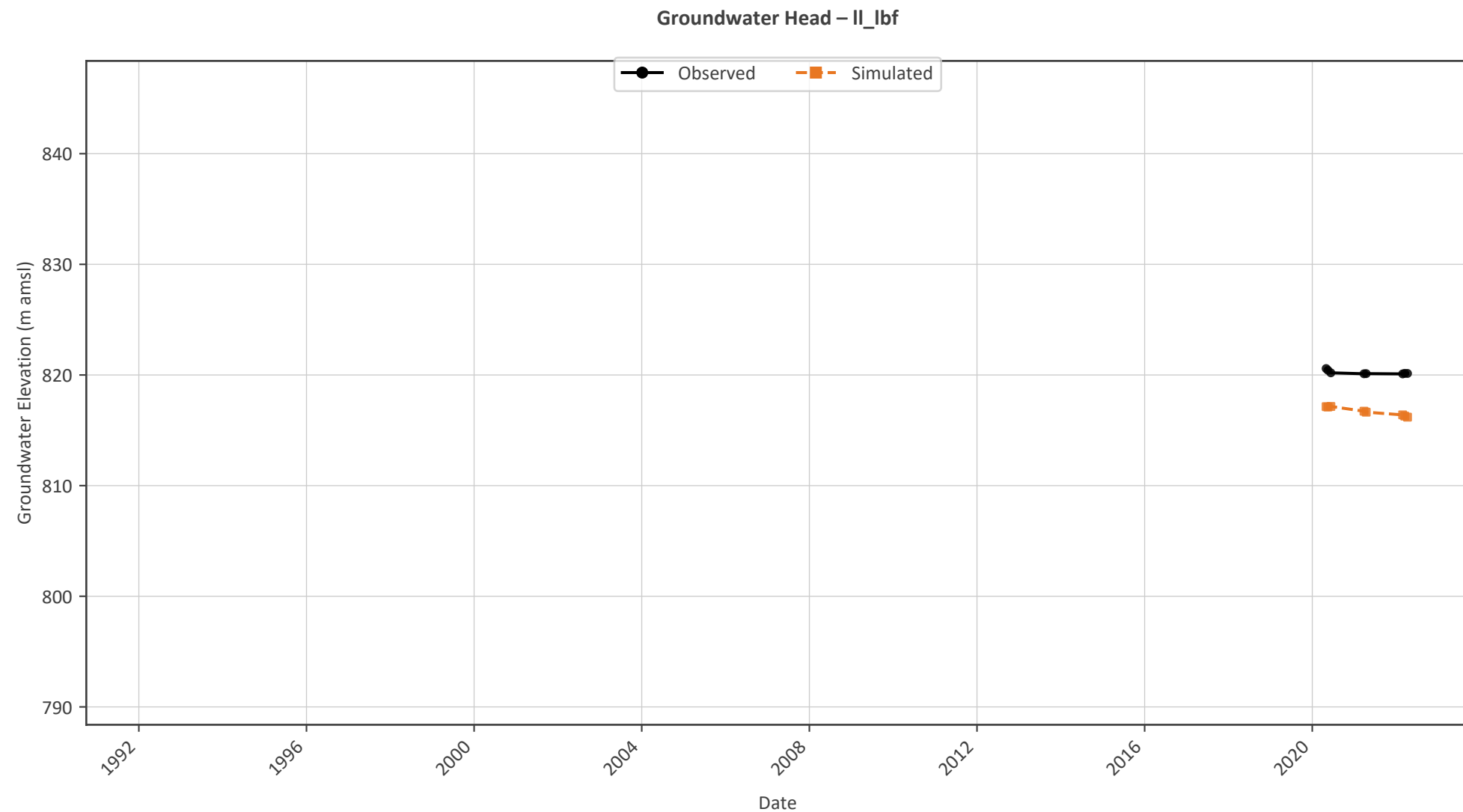


**Figure 42. Groundwater head calibration hydrograph and well location map for observation well crrlwl (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

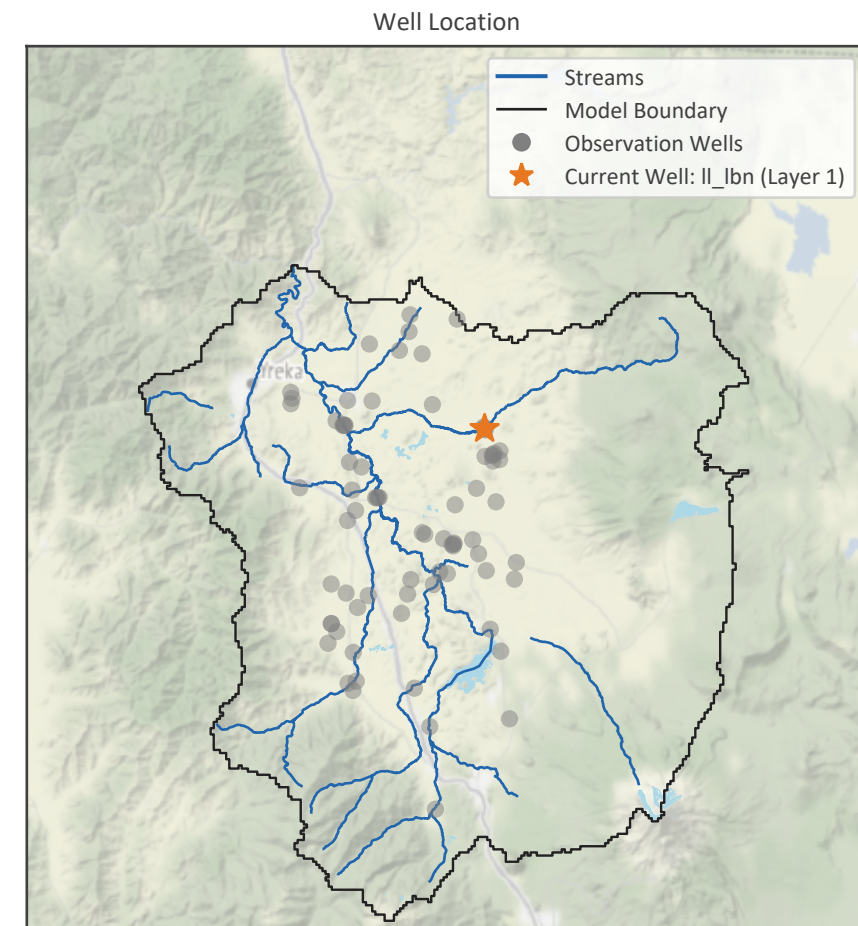
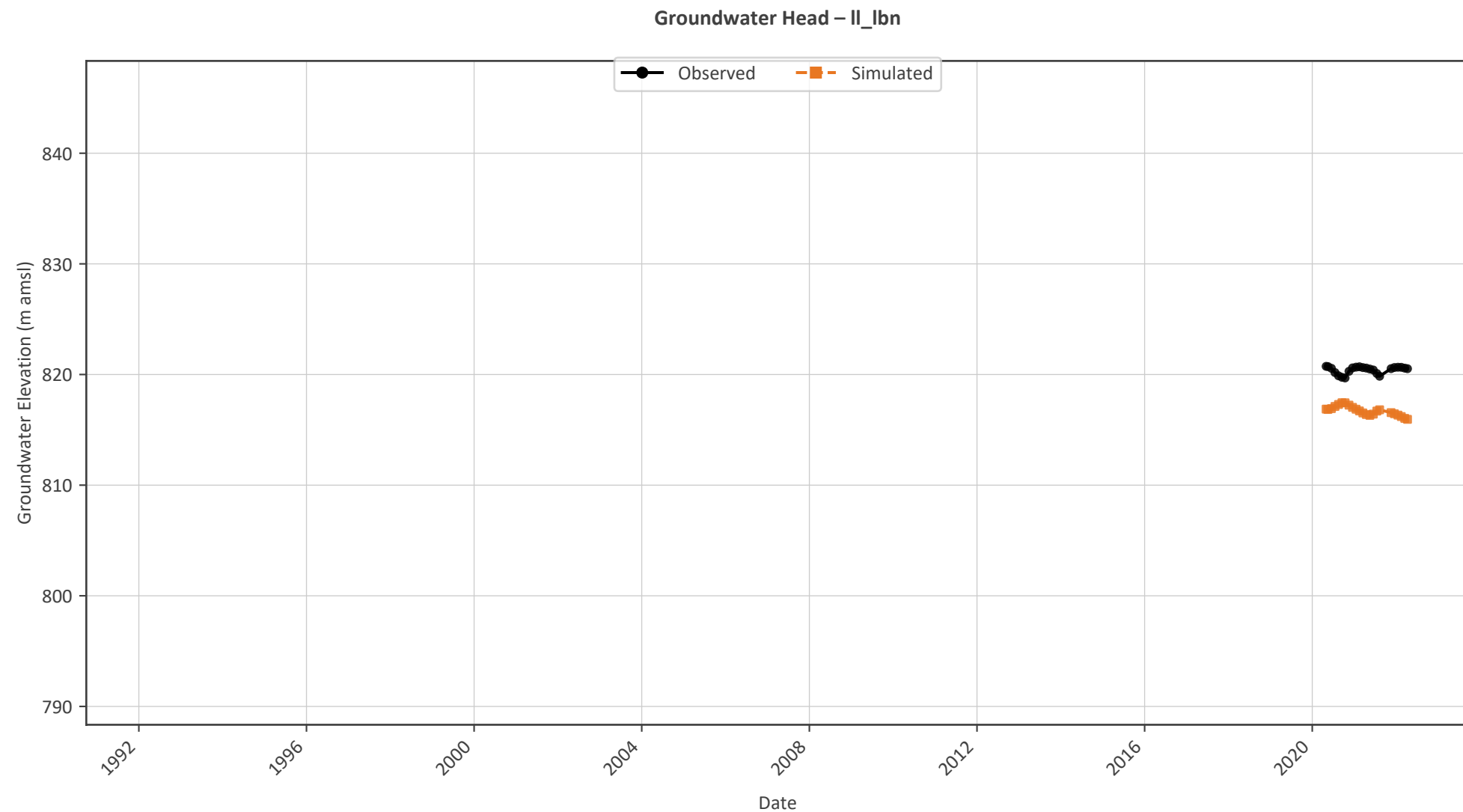




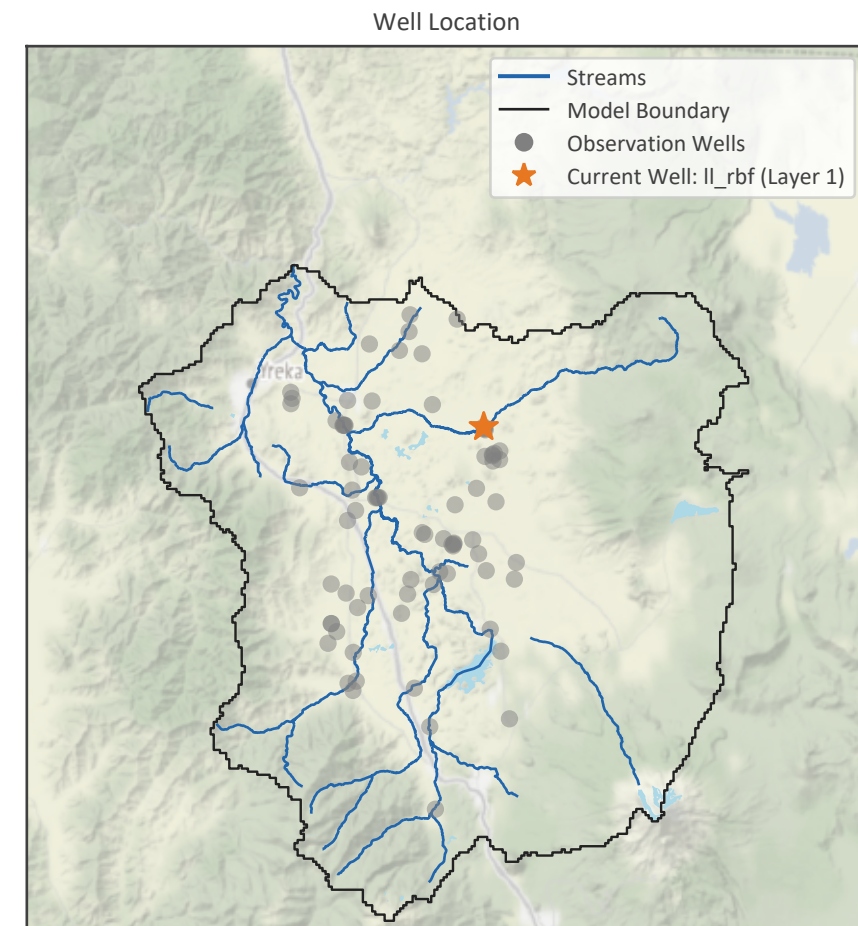
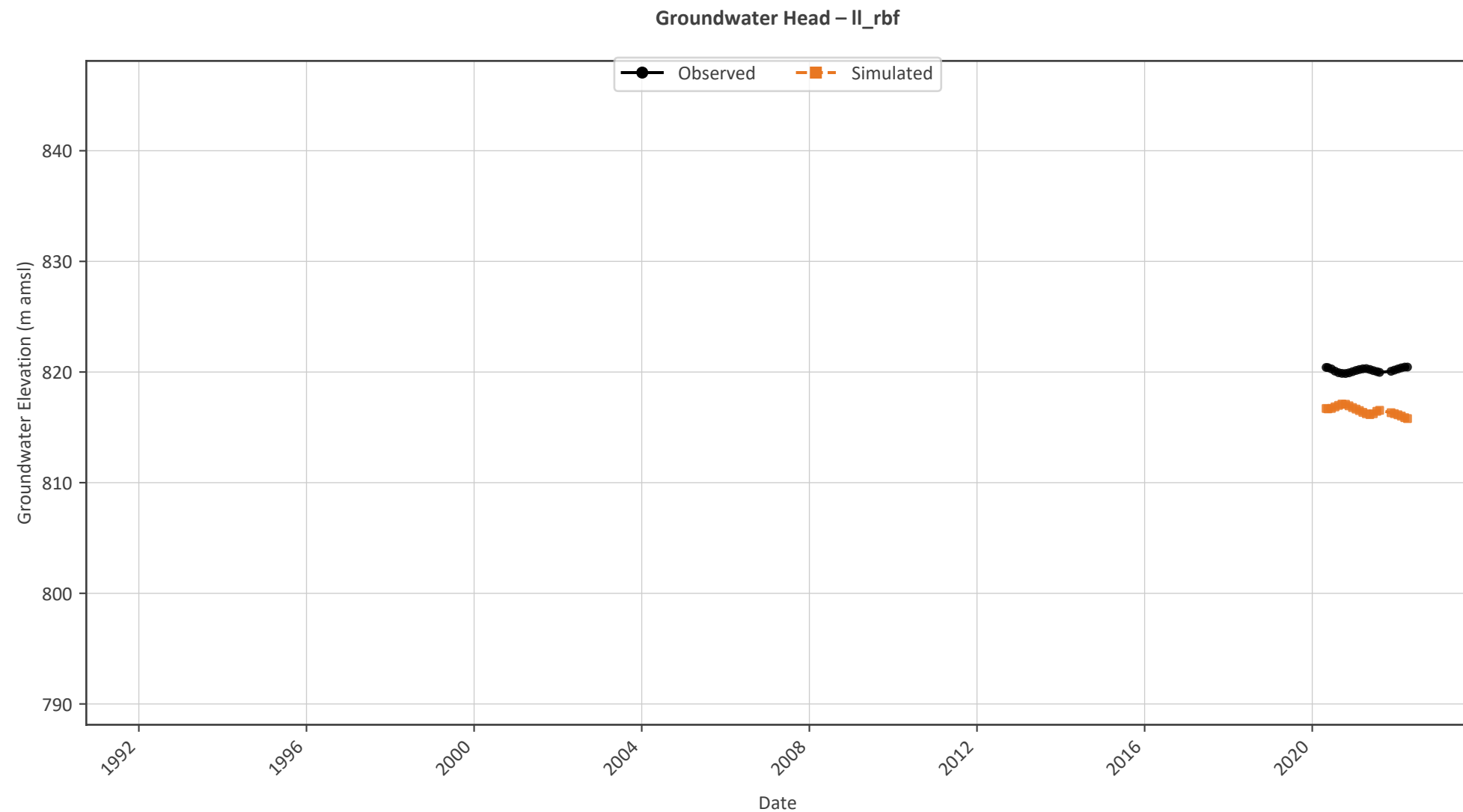
**Figure 43. Groundwater head calibration hydrograph and well location map for observation well evnswl (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



**Figure 44. Groundwater head calibration hydrograph and well location map for observation well II\_lbf (Model Layer 1). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

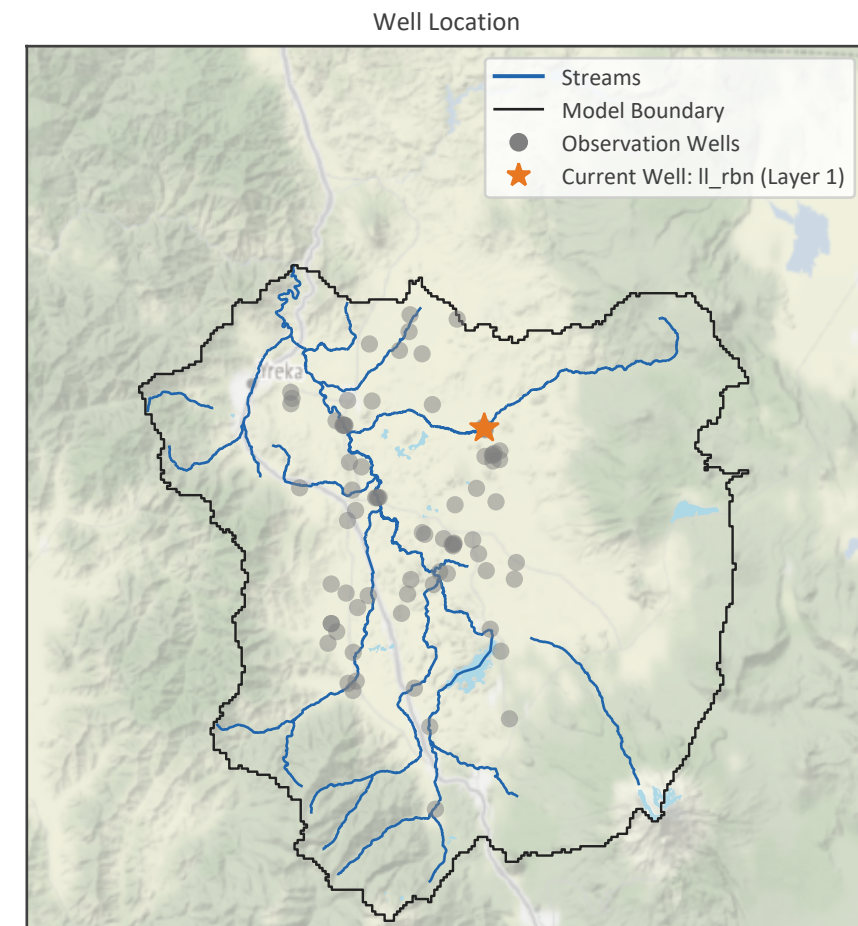
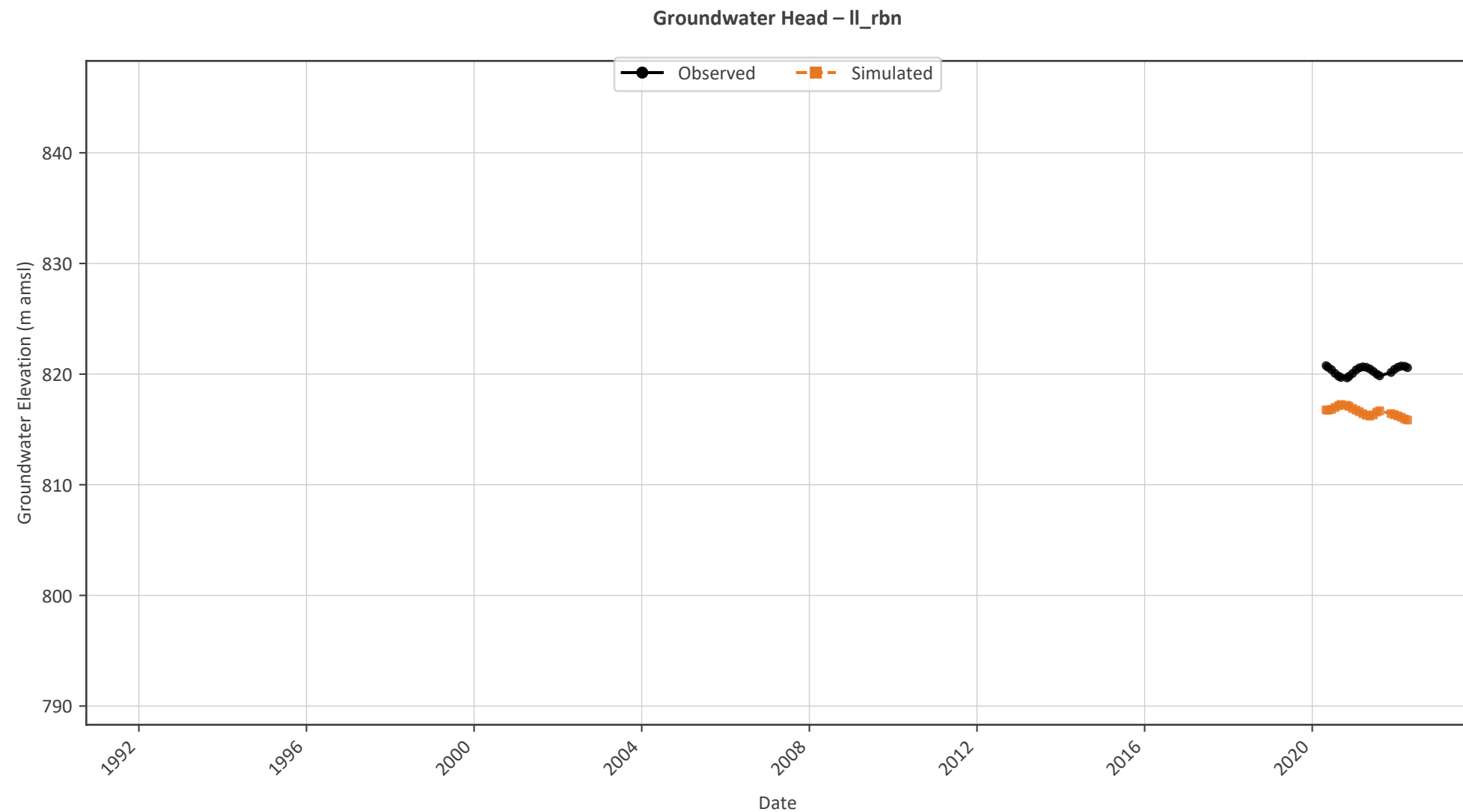


**Figure 45. Groundwater head calibration hydrograph and well location map for observation well II\_lbn (Model Layer 1). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



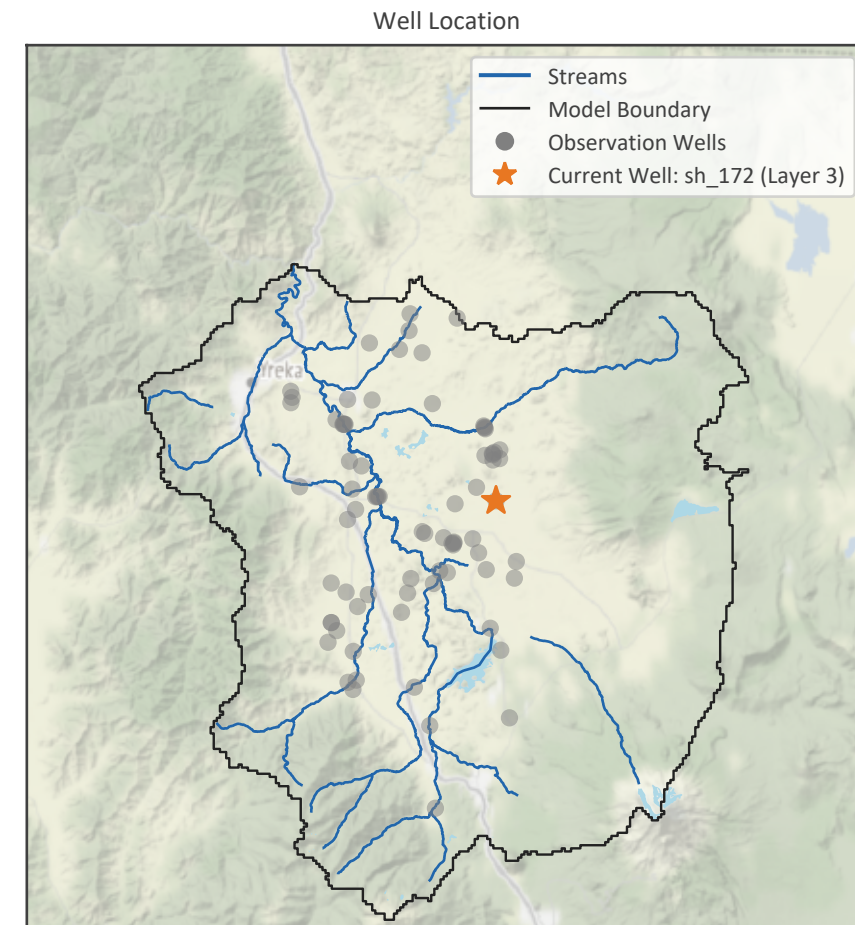
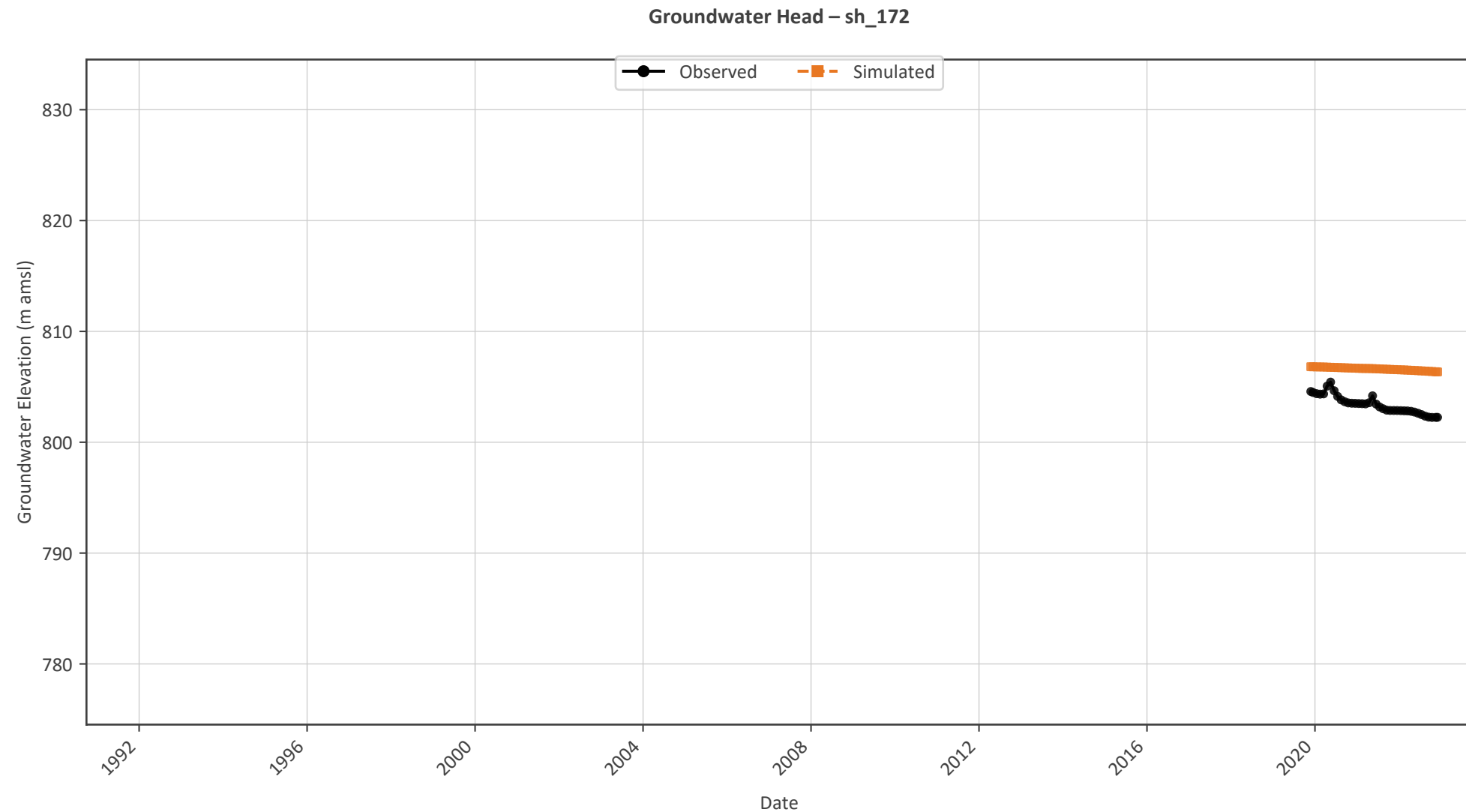
**Figure 46. Groundwater head calibration hydrograph and well location map for observation well II\_rbf (Model Layer 1). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



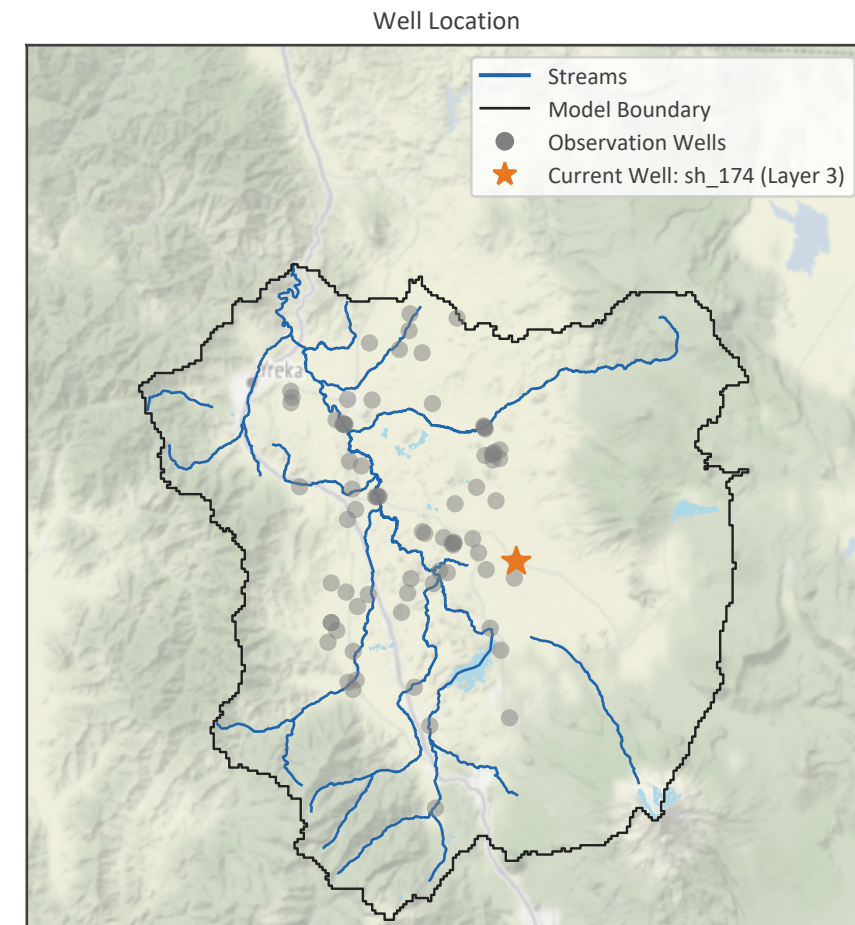
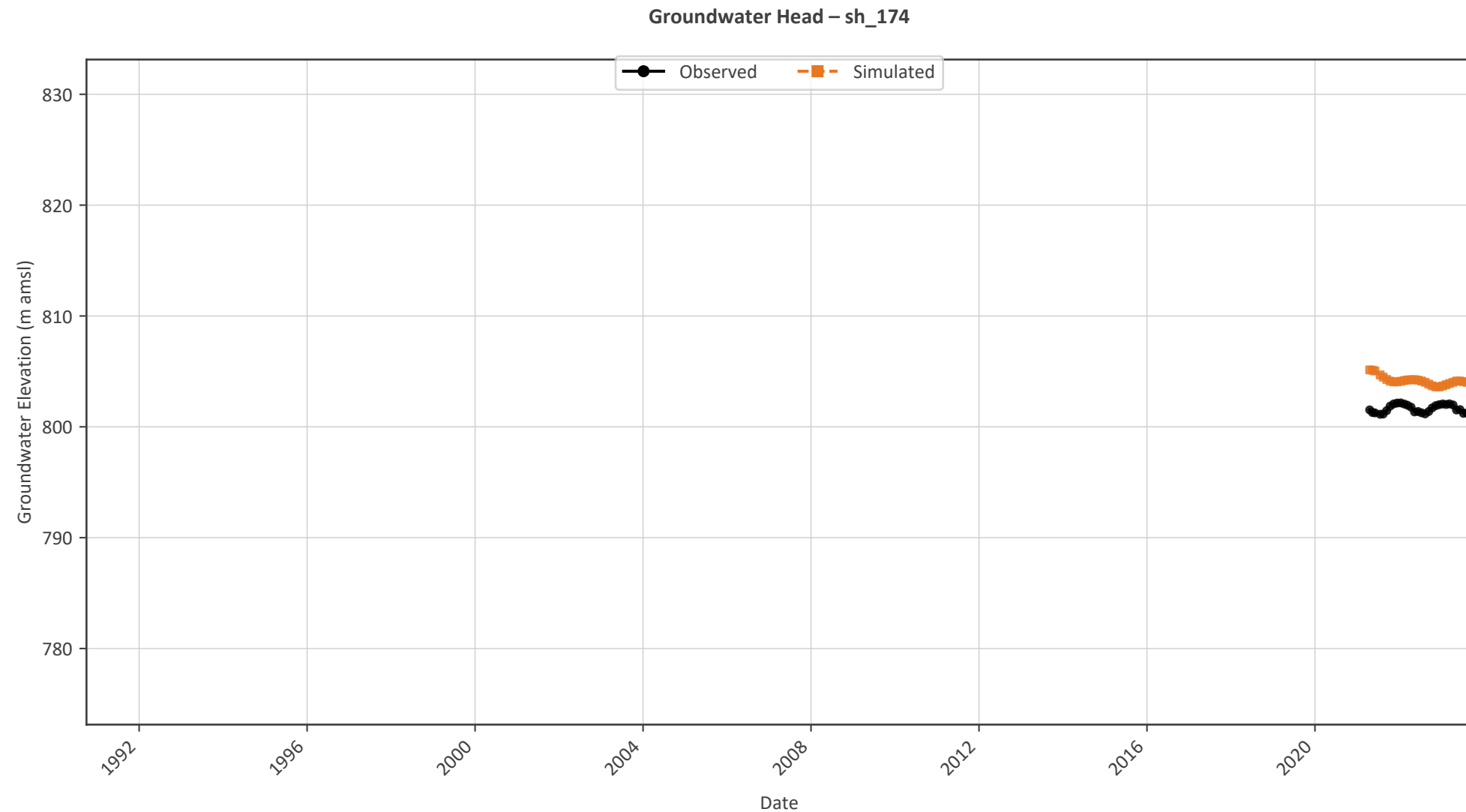


**Figure 47. Groundwater head calibration hydrograph and well location map for observation well Il\_rbn (Model Layer 1). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

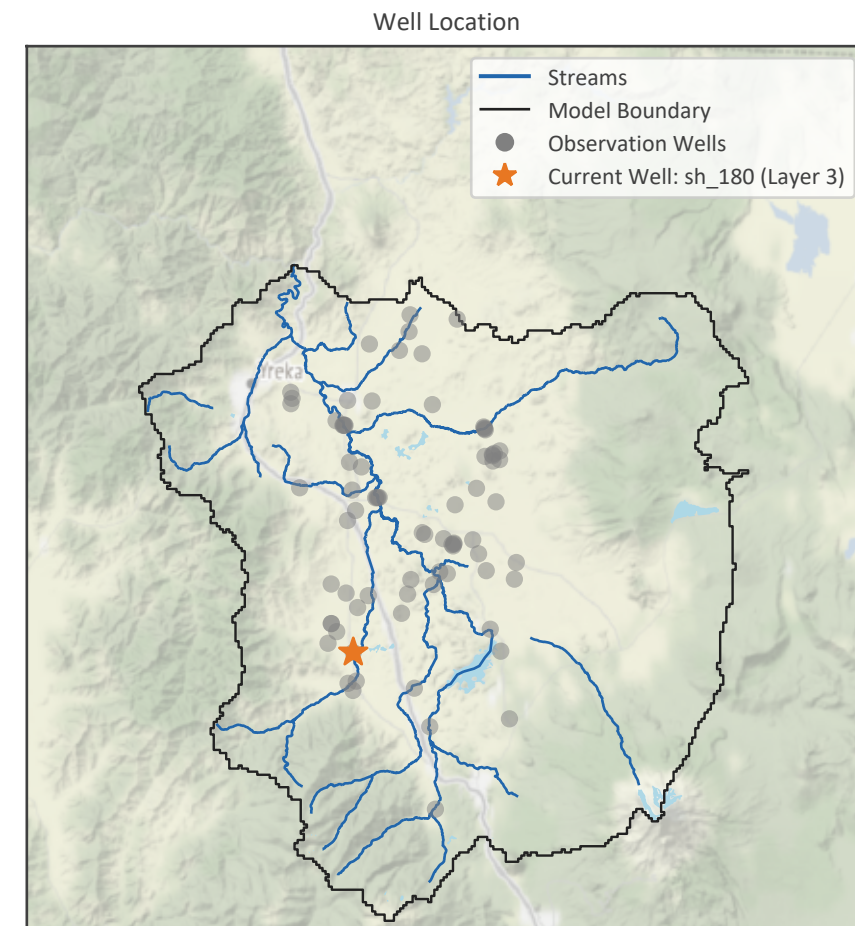
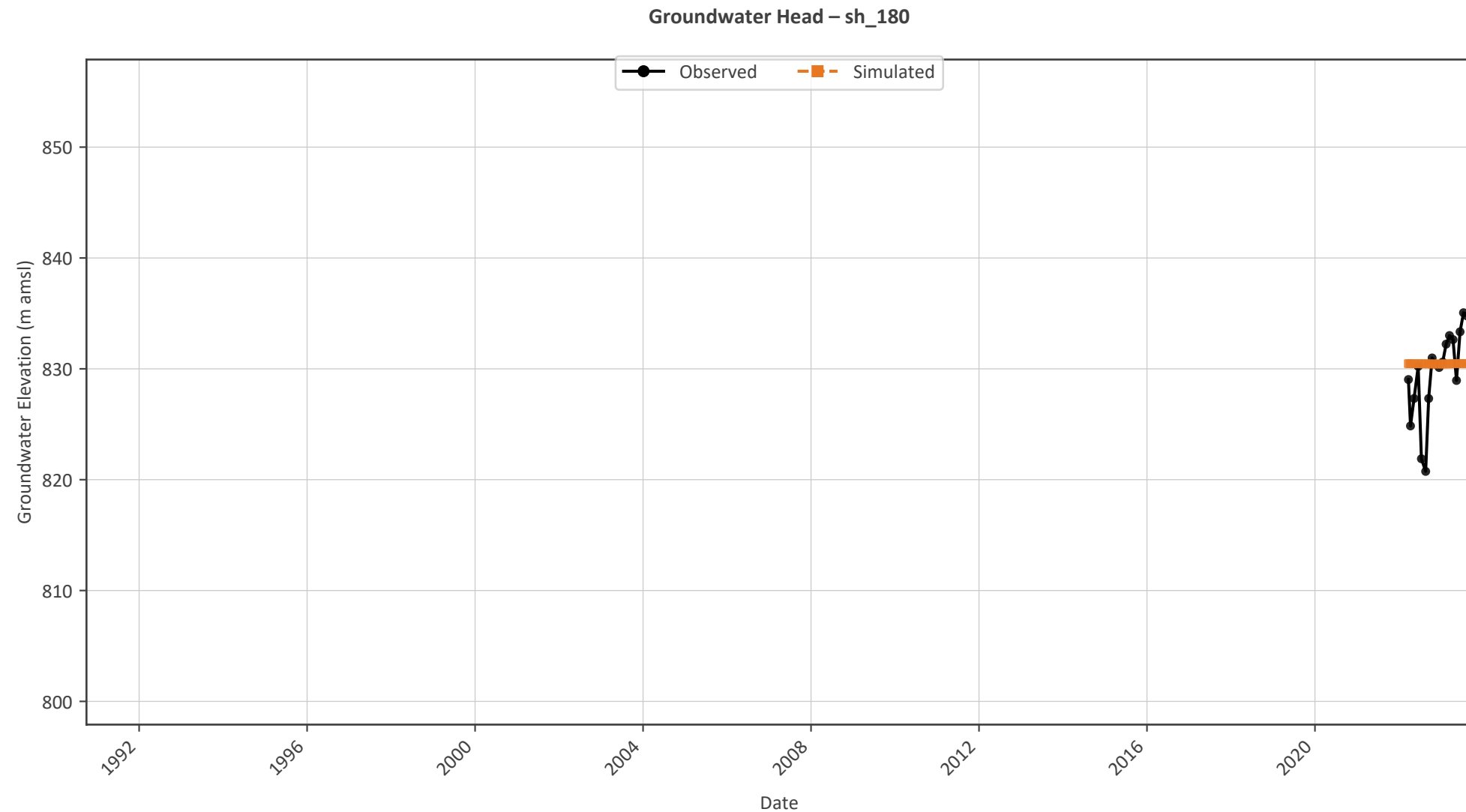




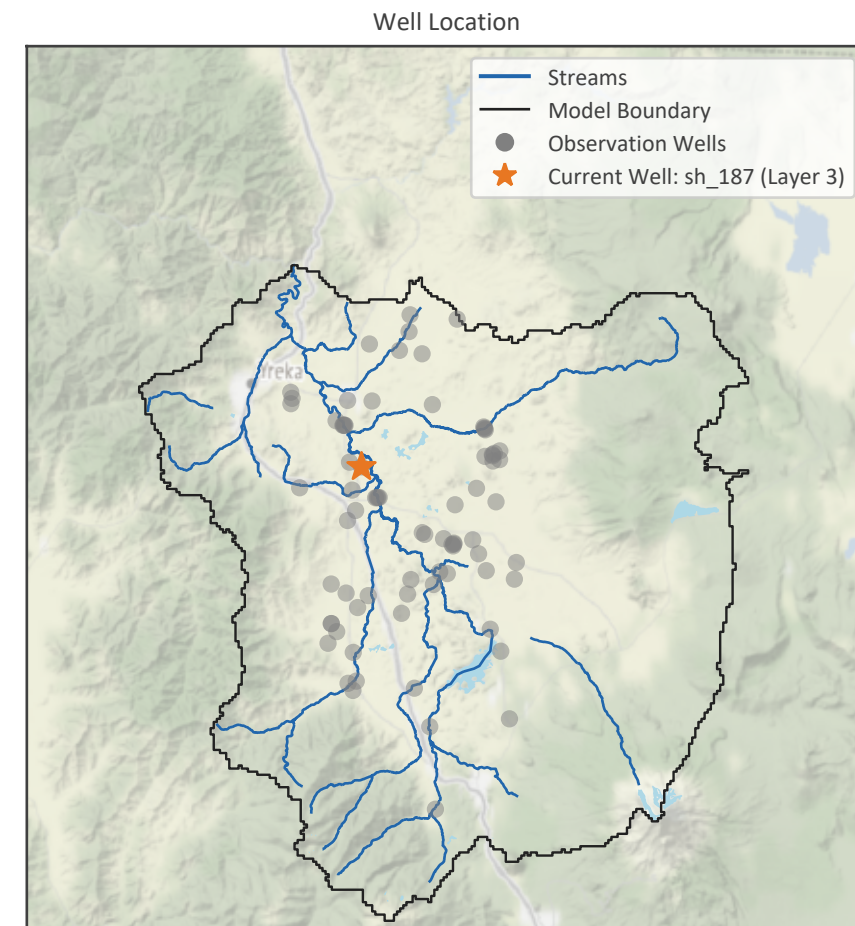
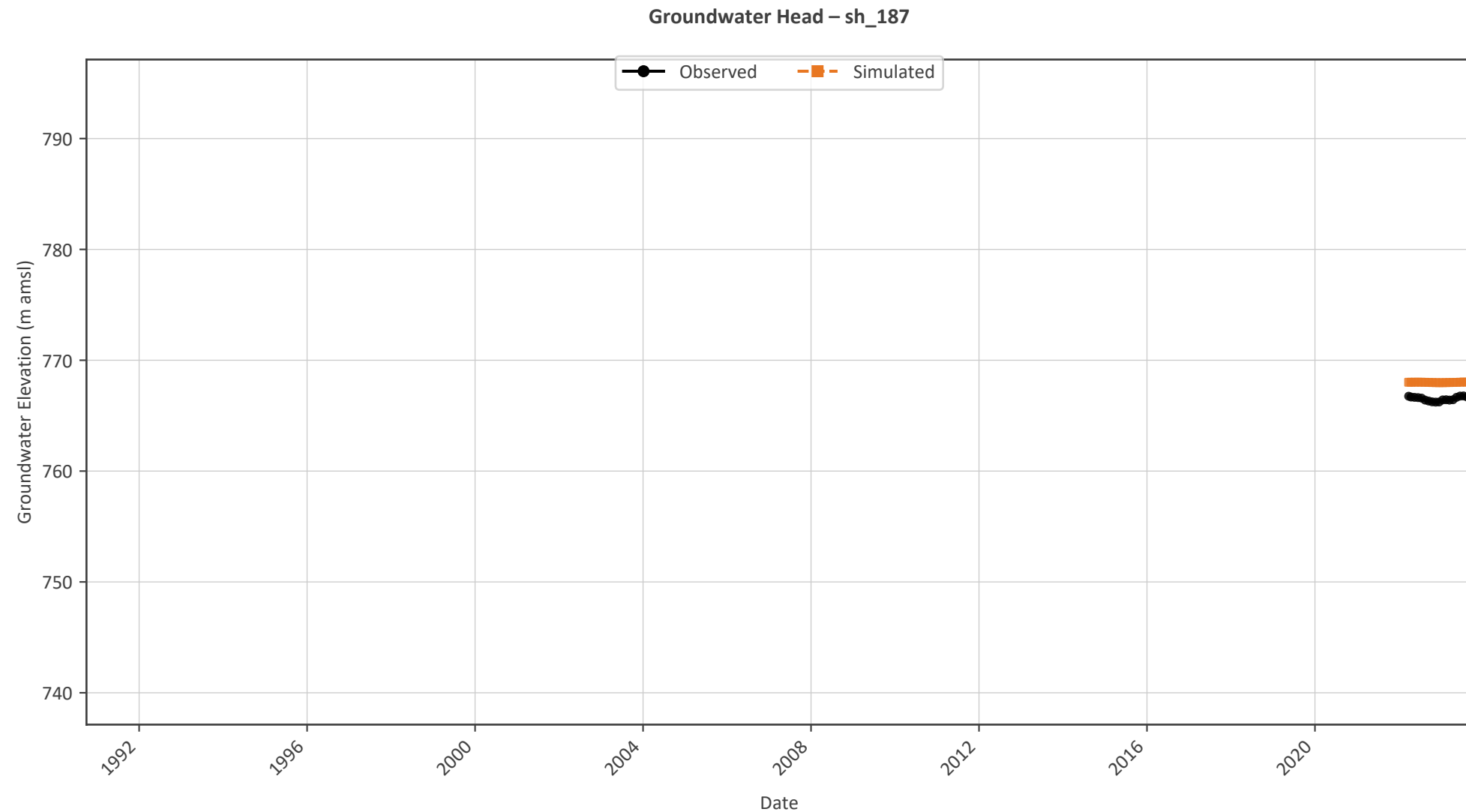
**Figure 48. Groundwater head calibration hydrograph and well location map for observation well sh\_172 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



**Figure 49. Groundwater head calibration hydrograph and well location map for observation well sh\_174 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

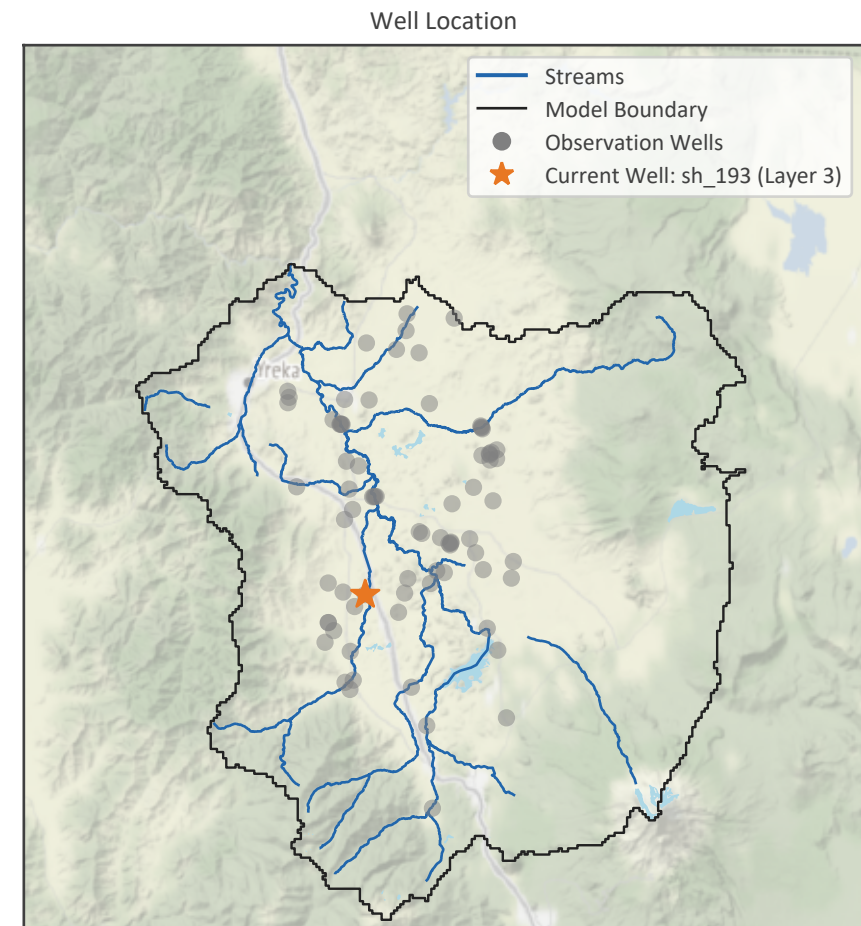
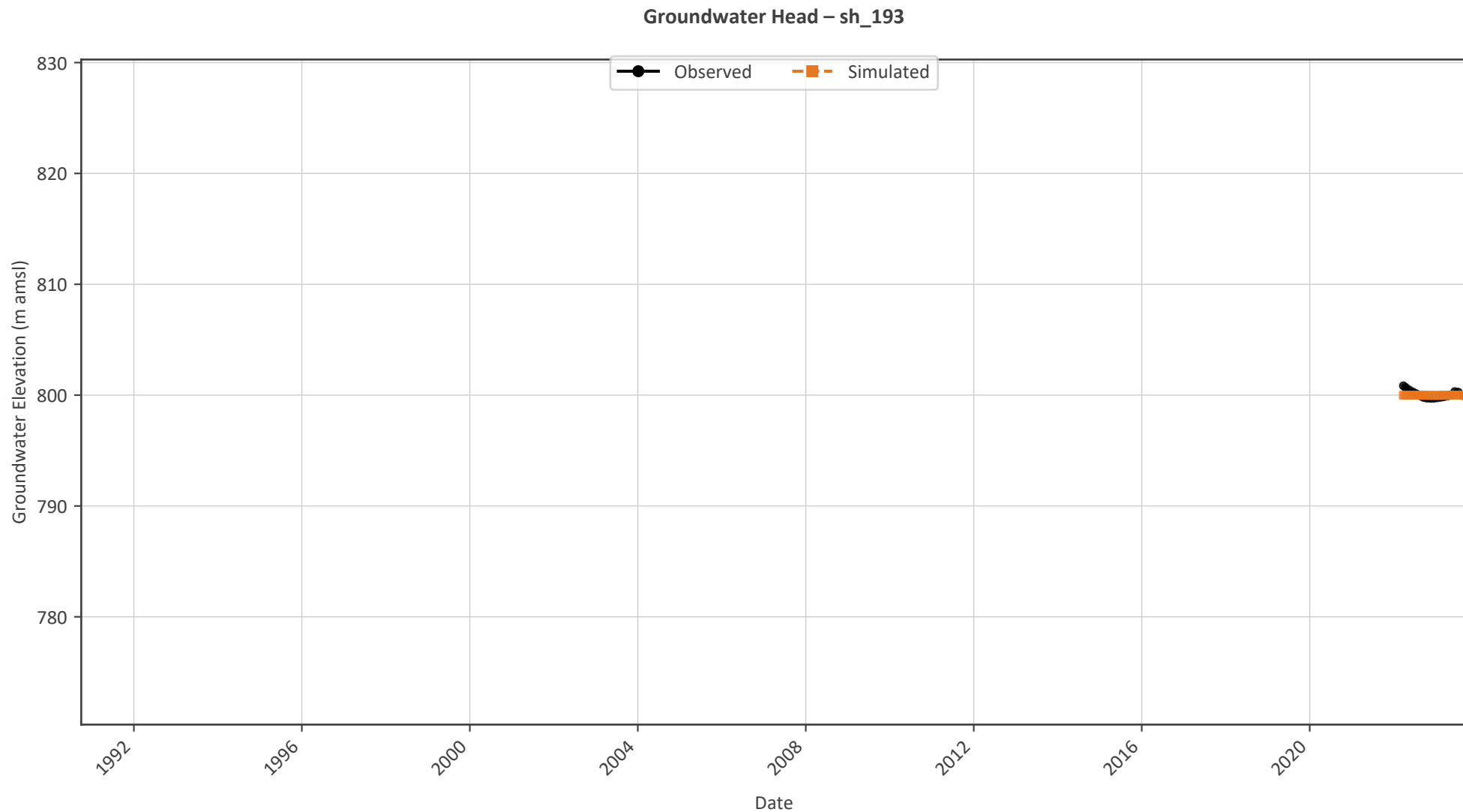


**Figure 50. Groundwater head calibration hydrograph and well location map for observation well sh\_180 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



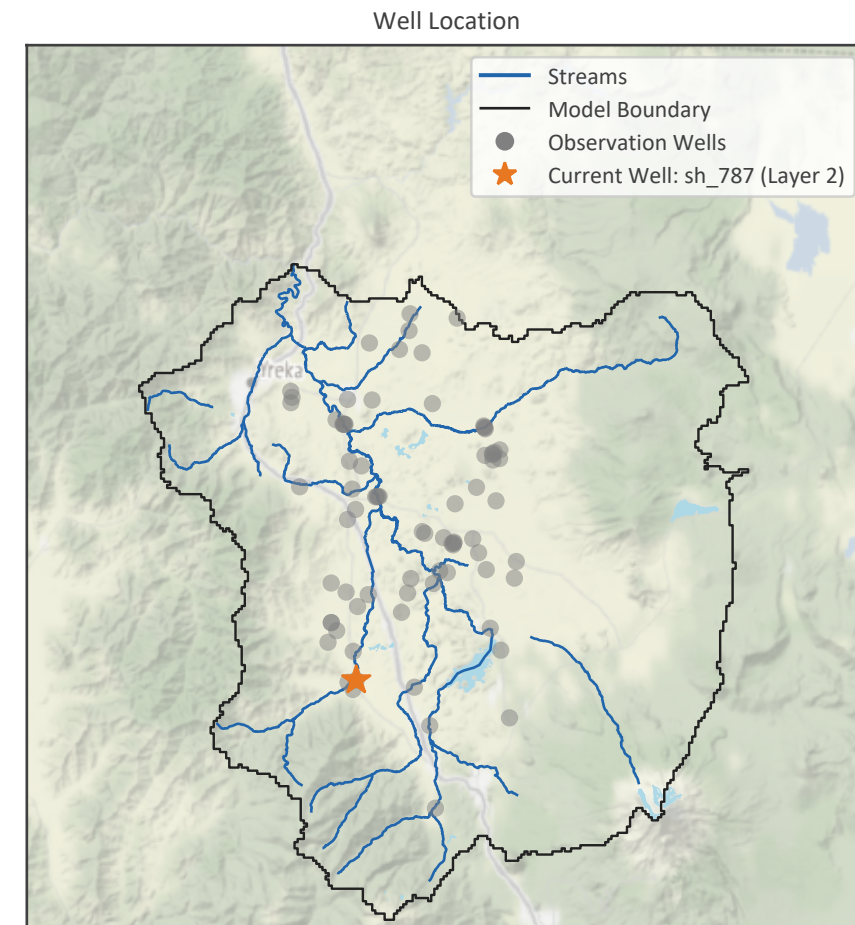
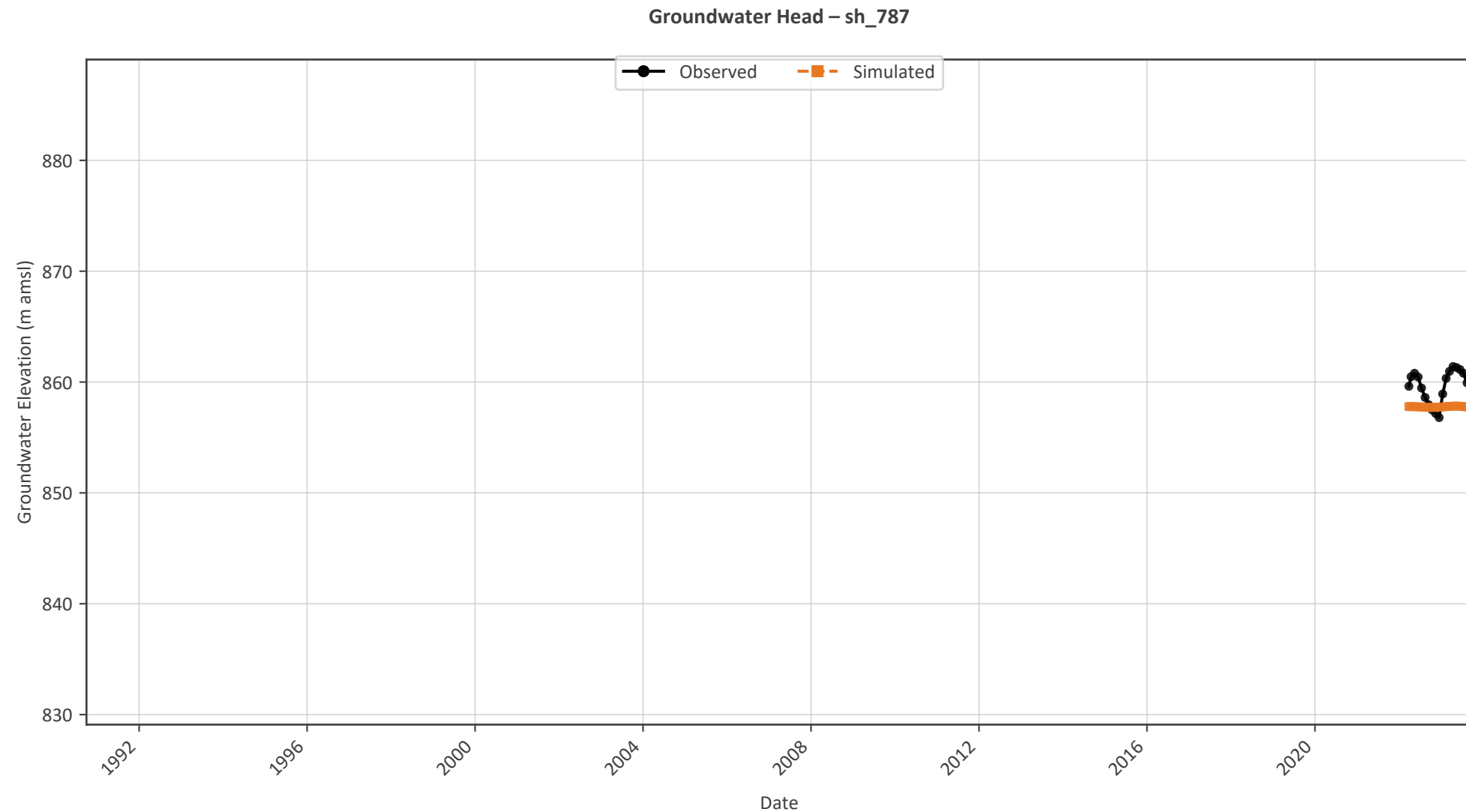
**Figure 51. Groundwater head calibration hydrograph and well location map for observation well sh\_187 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



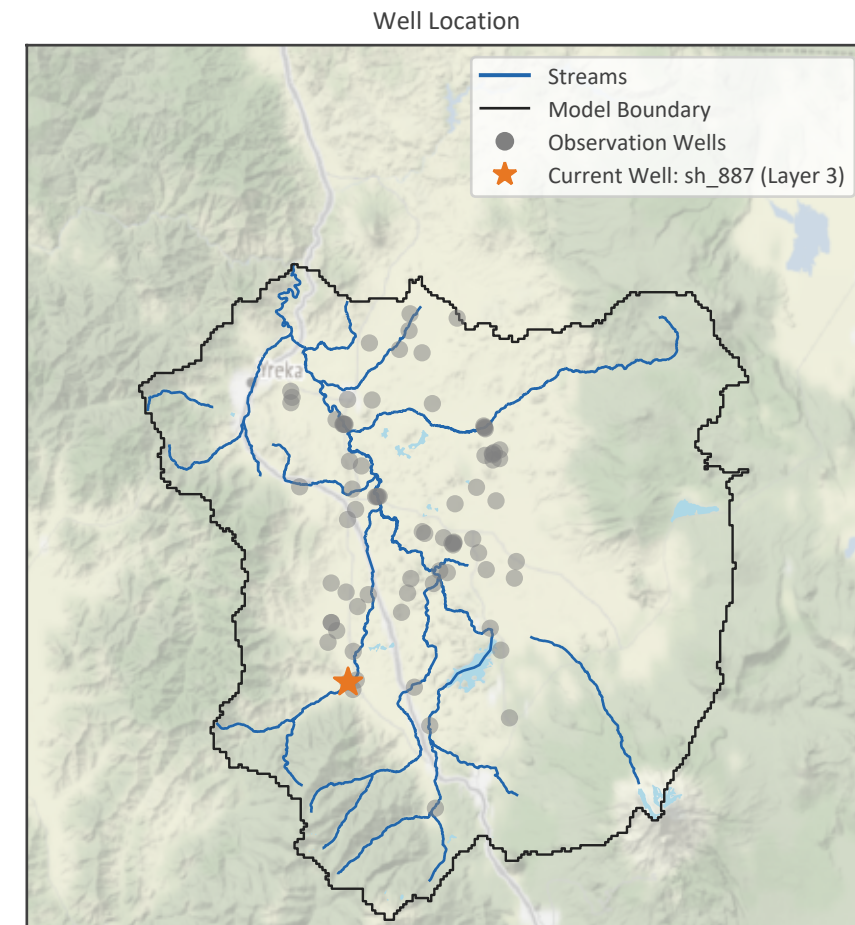
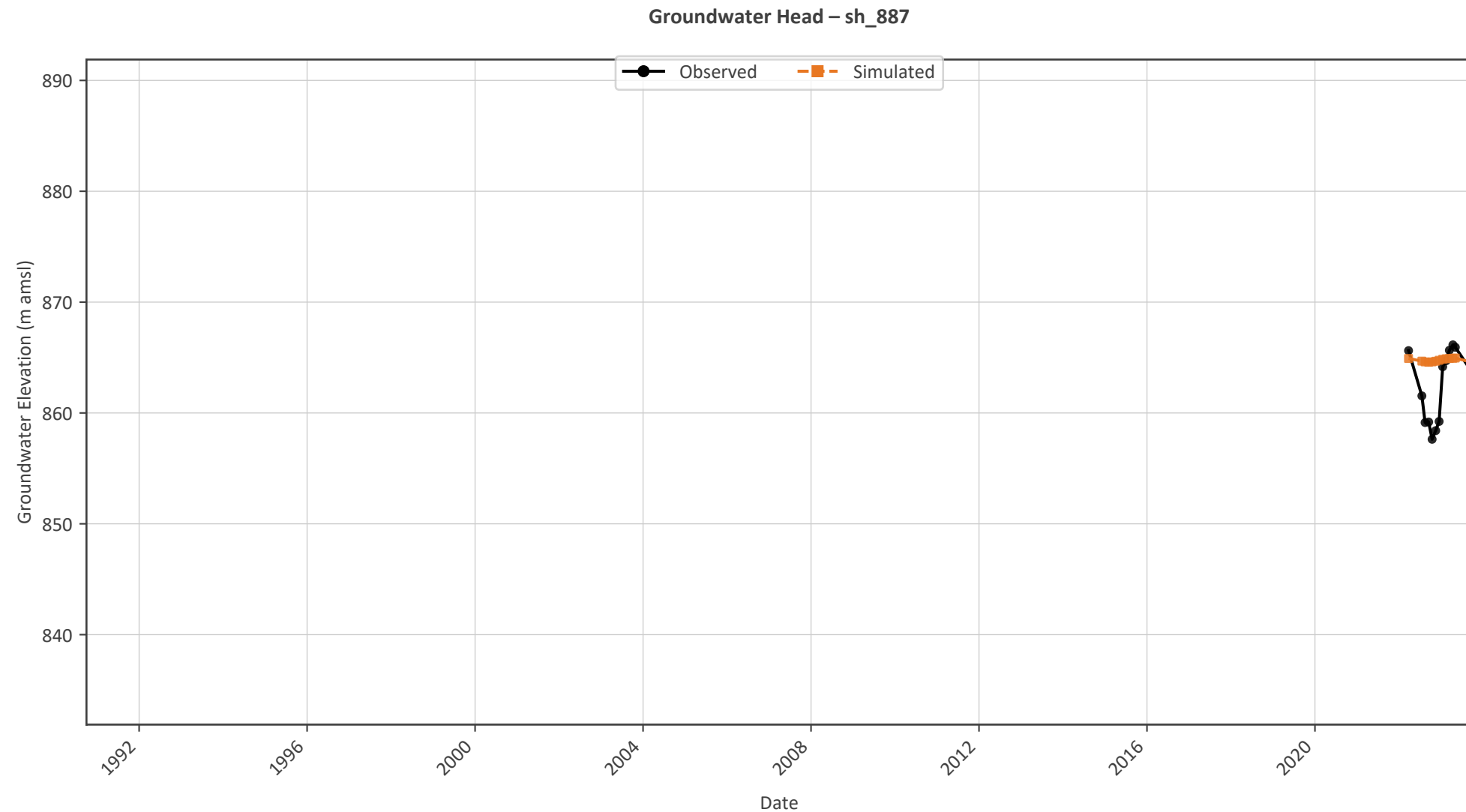


**Figure 52. Groundwater head calibration hydrograph and well location map for observation well sh\_193 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

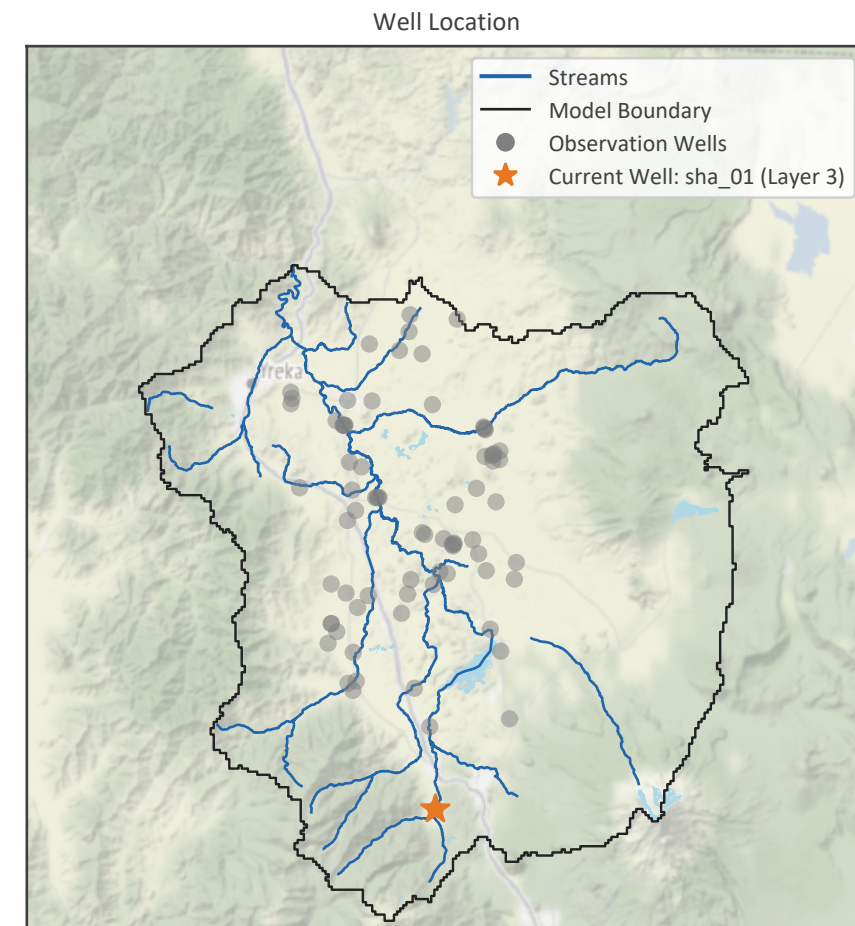
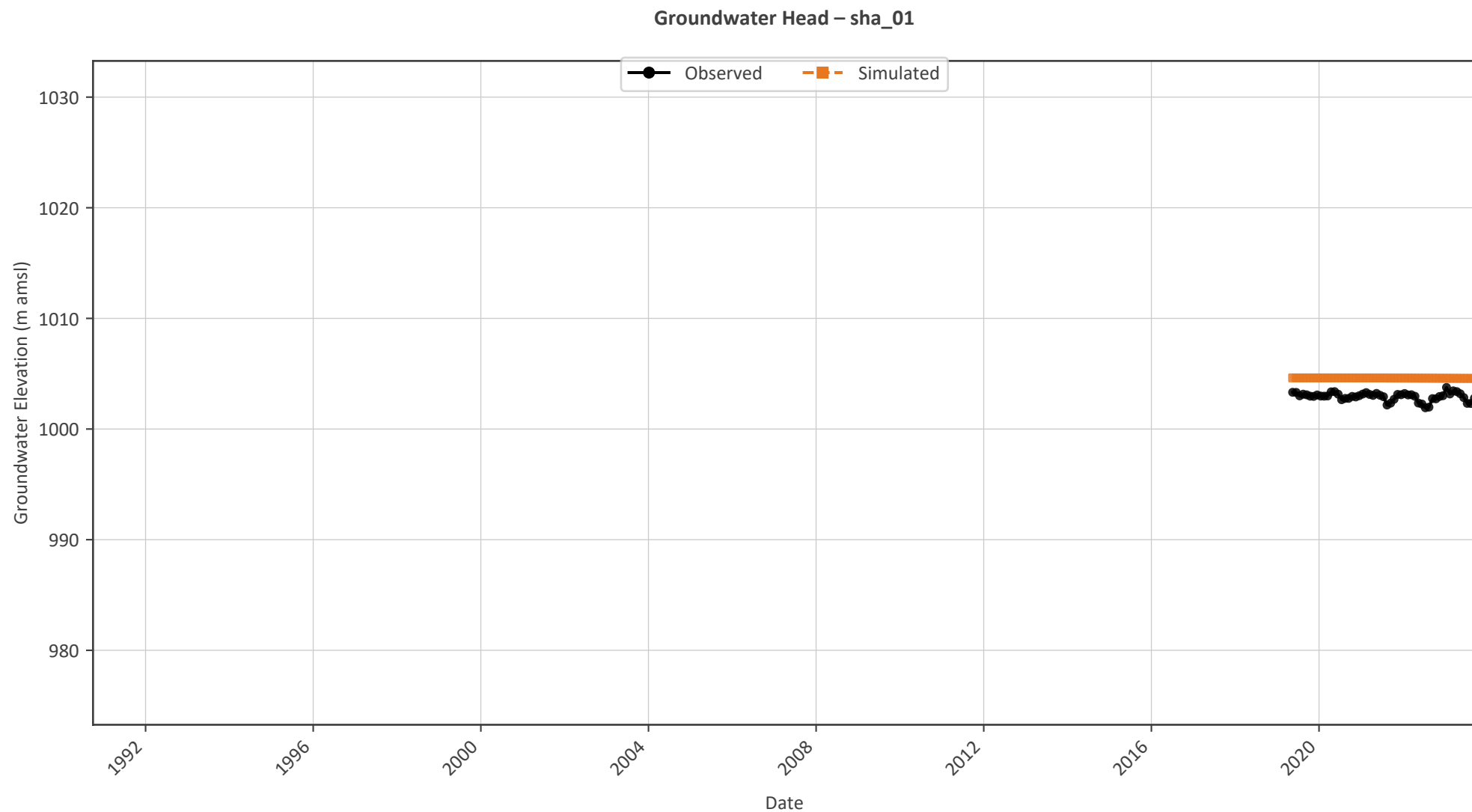




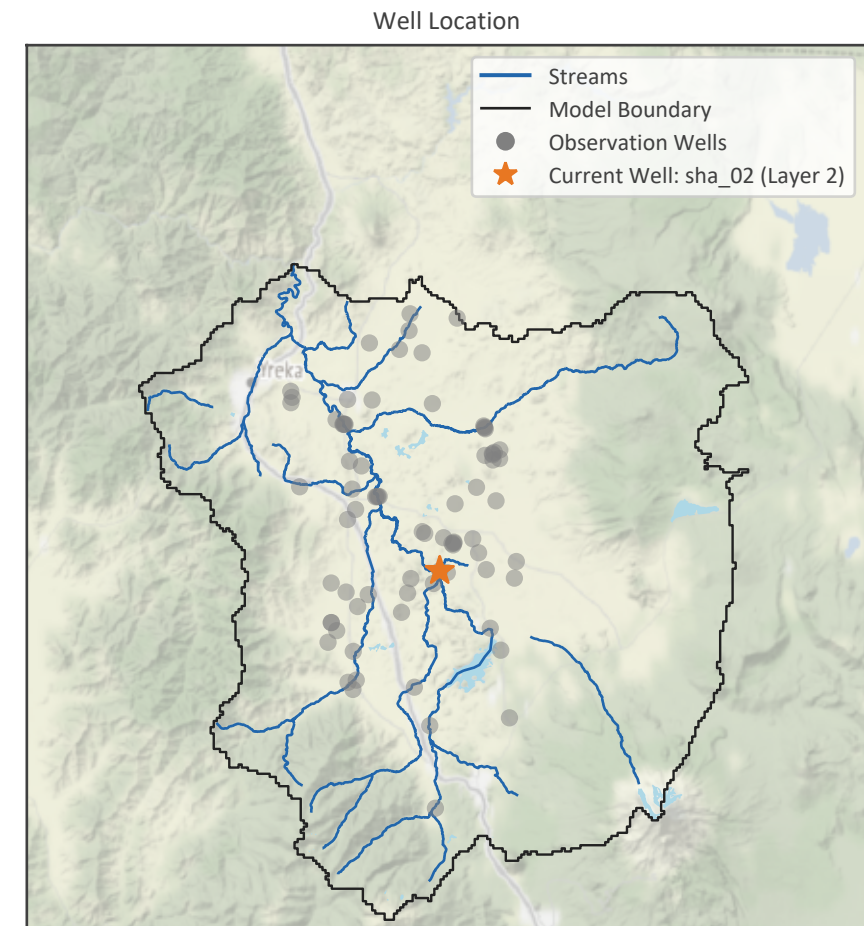
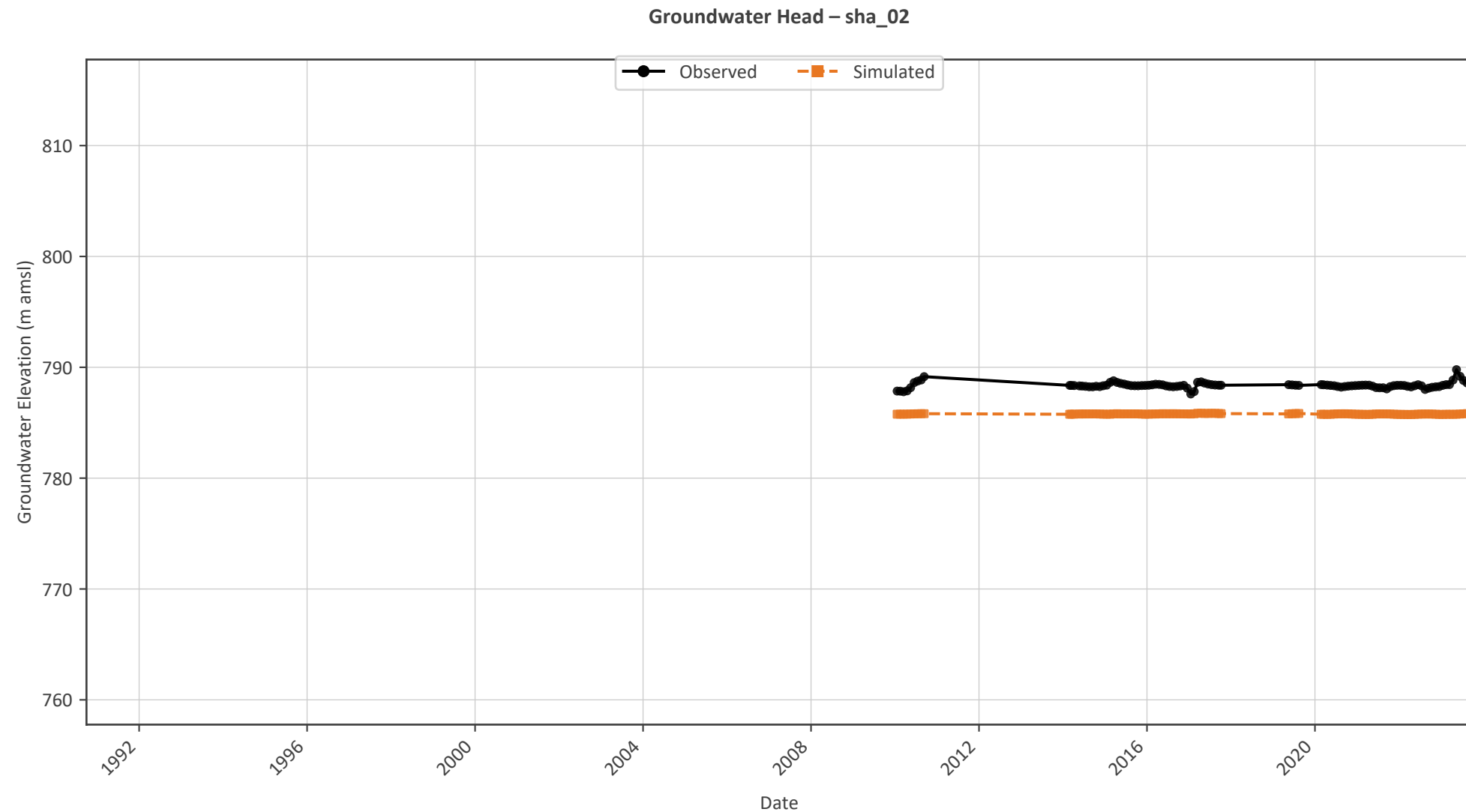
**Figure 53. Groundwater head calibration hydrograph and well location map for observation well sh\_787 (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



**Figure 54. Groundwater head calibration hydrograph and well location map for observation well sh\_887 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

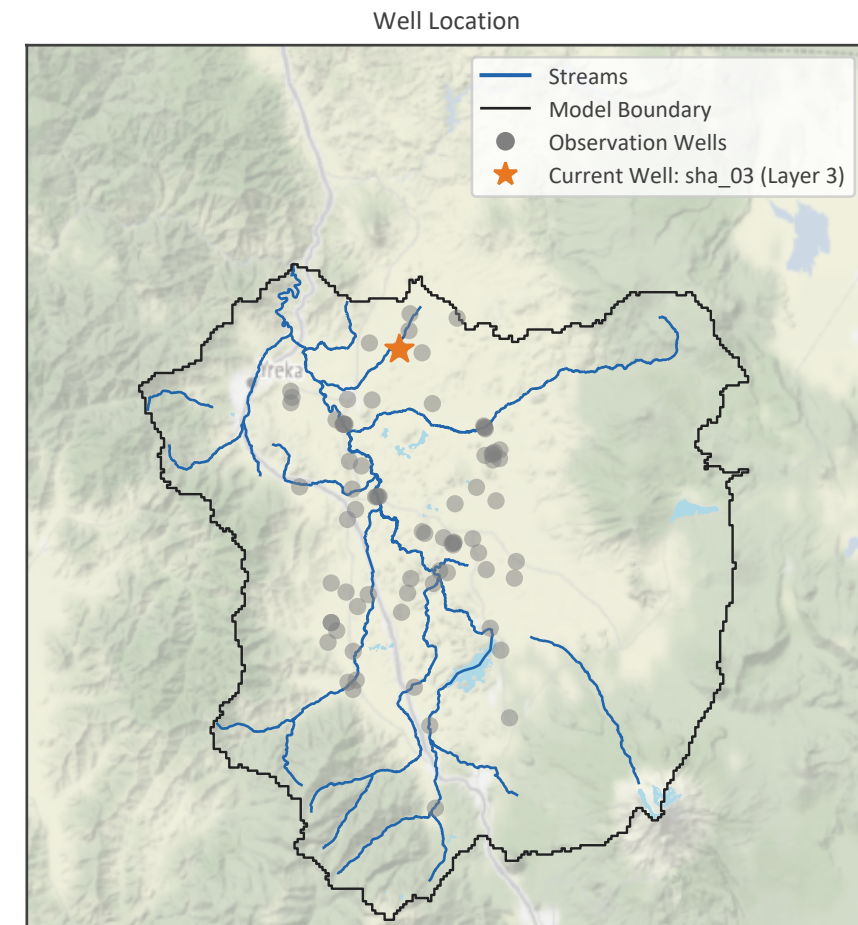
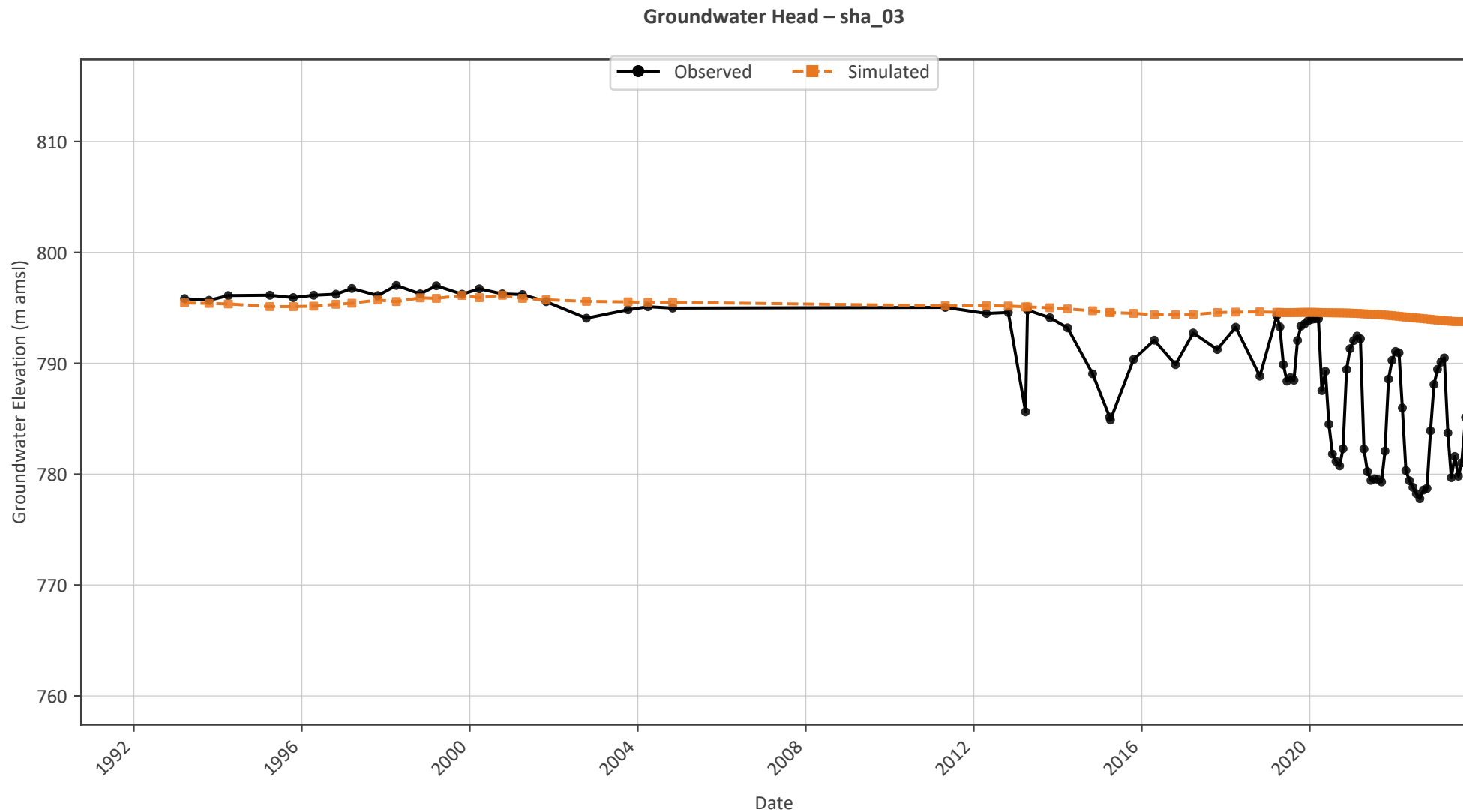


**Figure 55. Groundwater head calibration hydrograph and well location map for observation well sha\_01 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



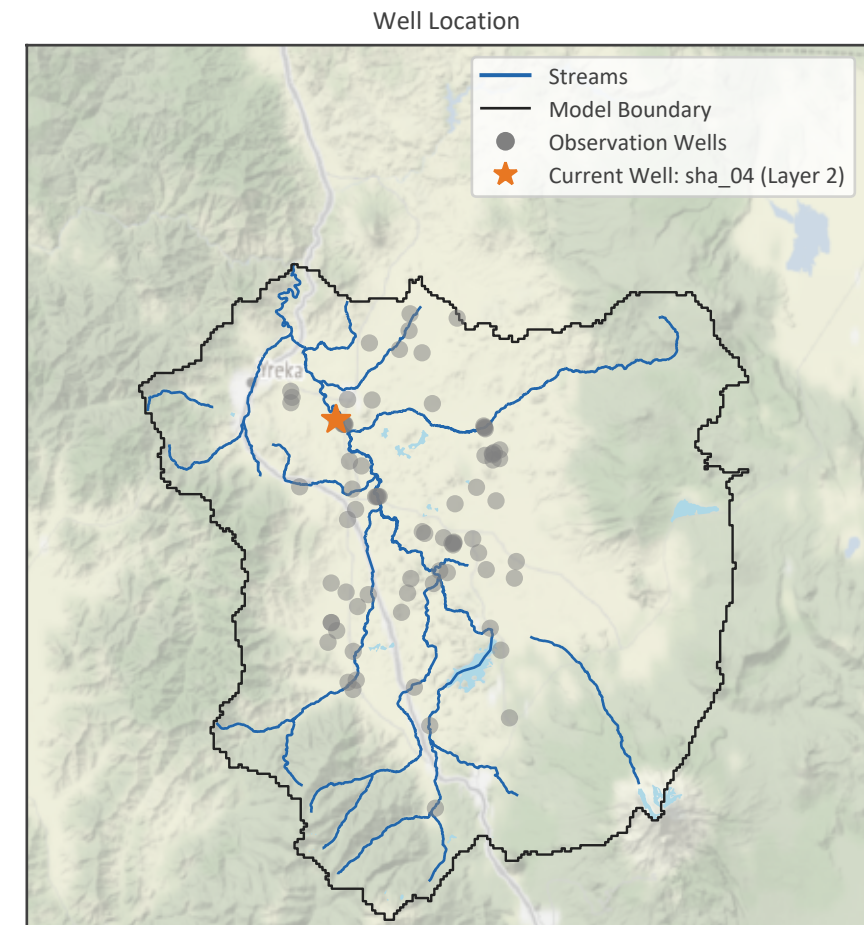
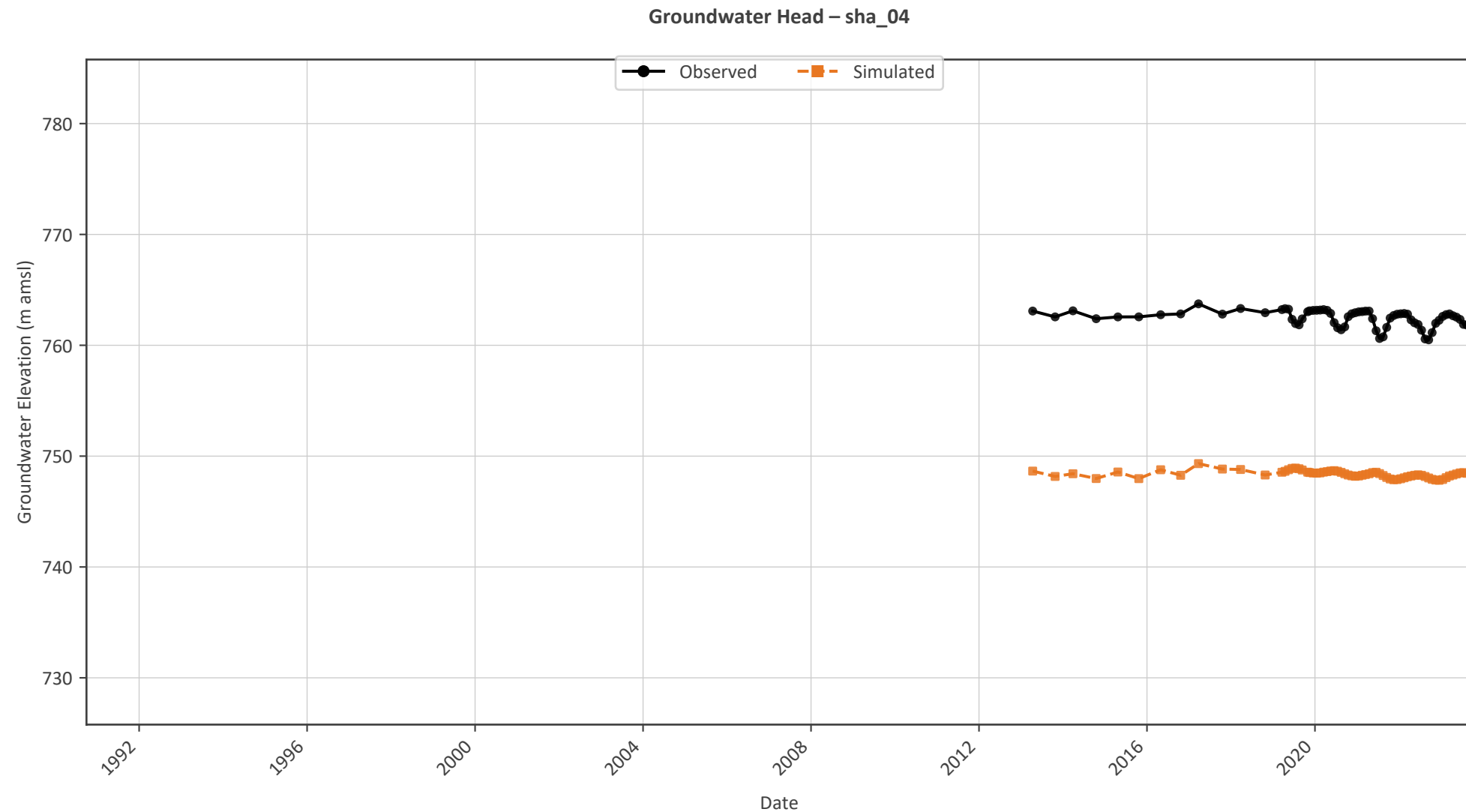
**Figure 56. Groundwater head calibration hydrograph and well location map for observation well sha\_02 (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



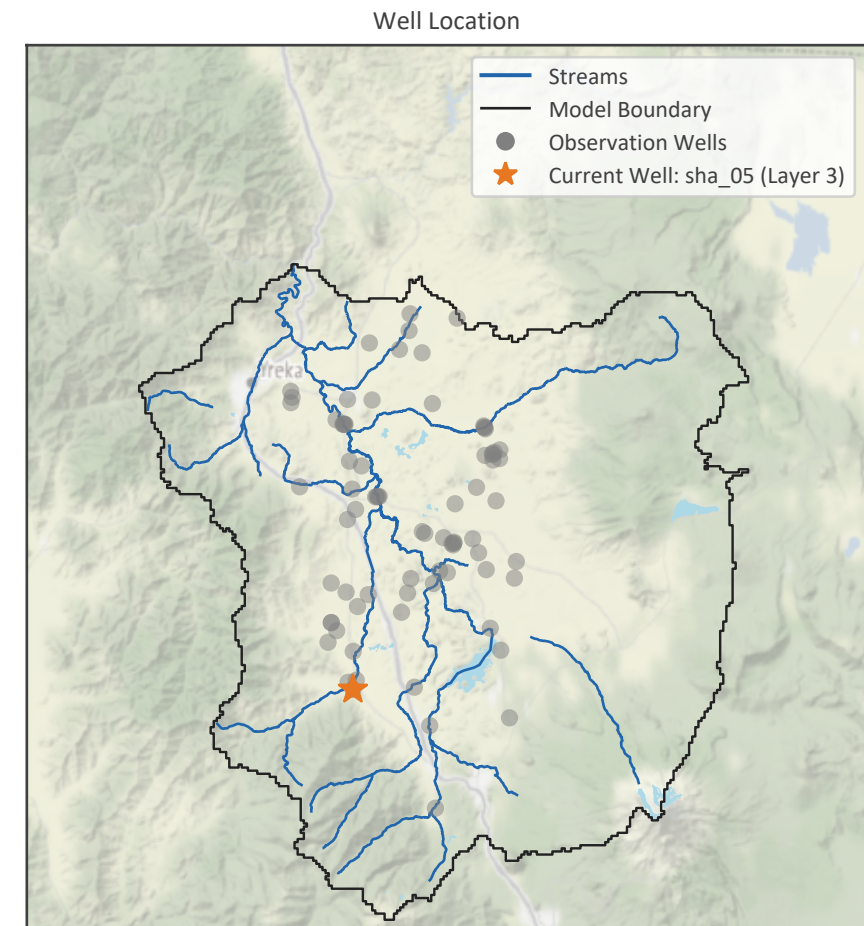
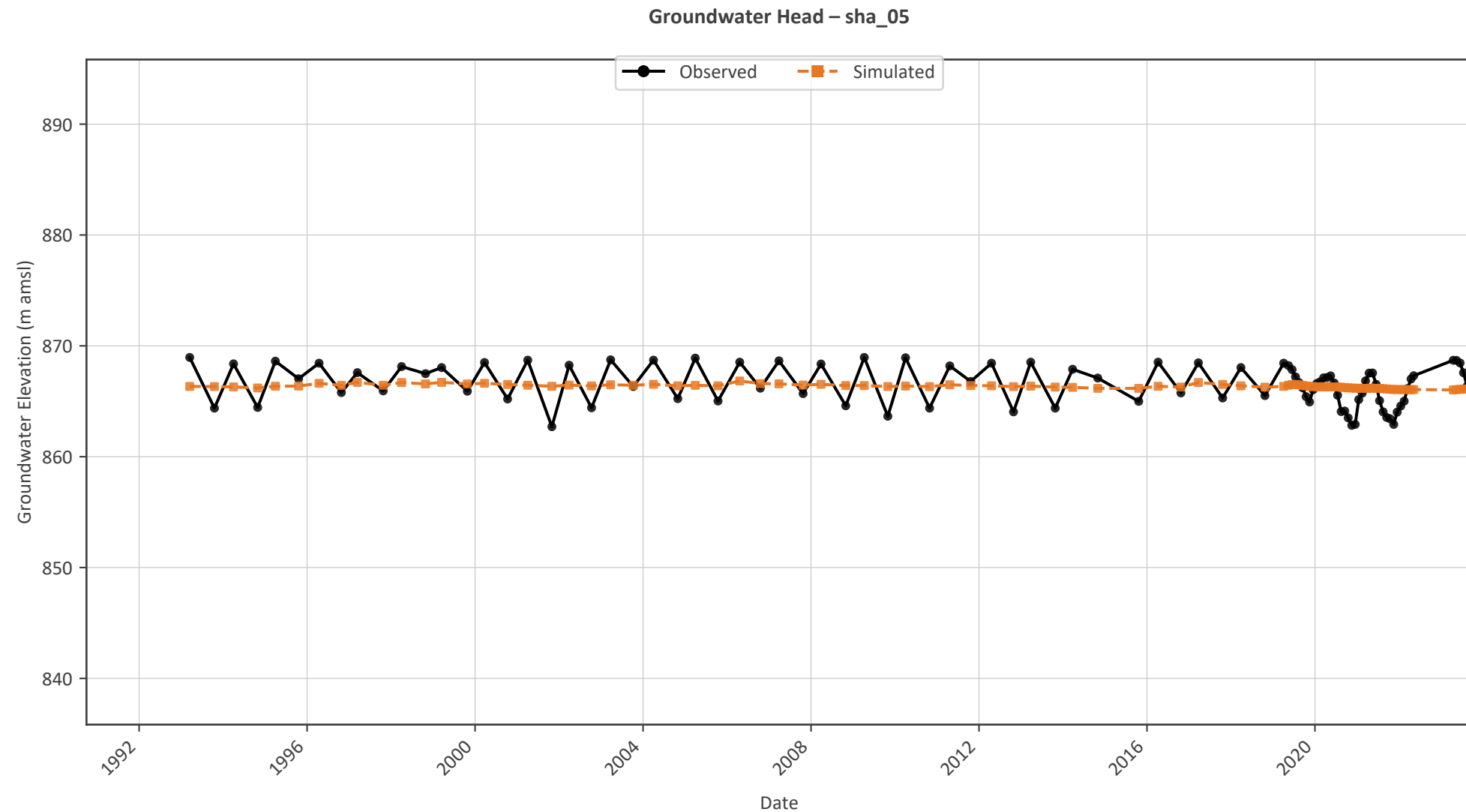


**Figure 57. Groundwater head calibration hydrograph and well location map for observation well sha\_03 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

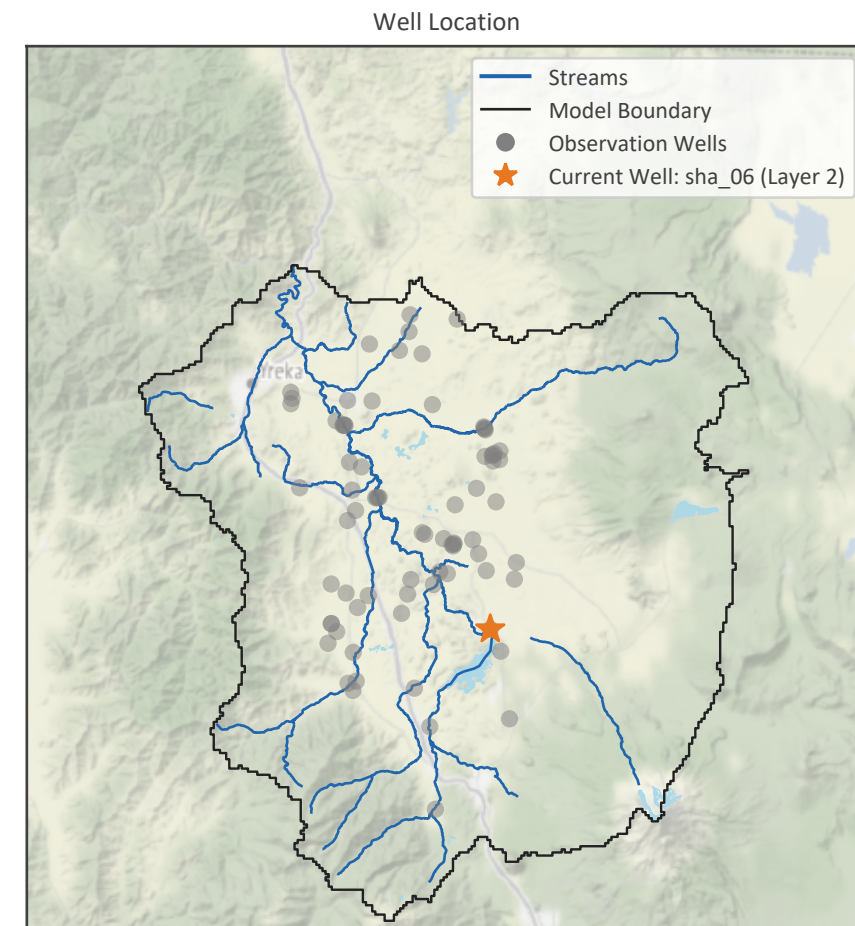
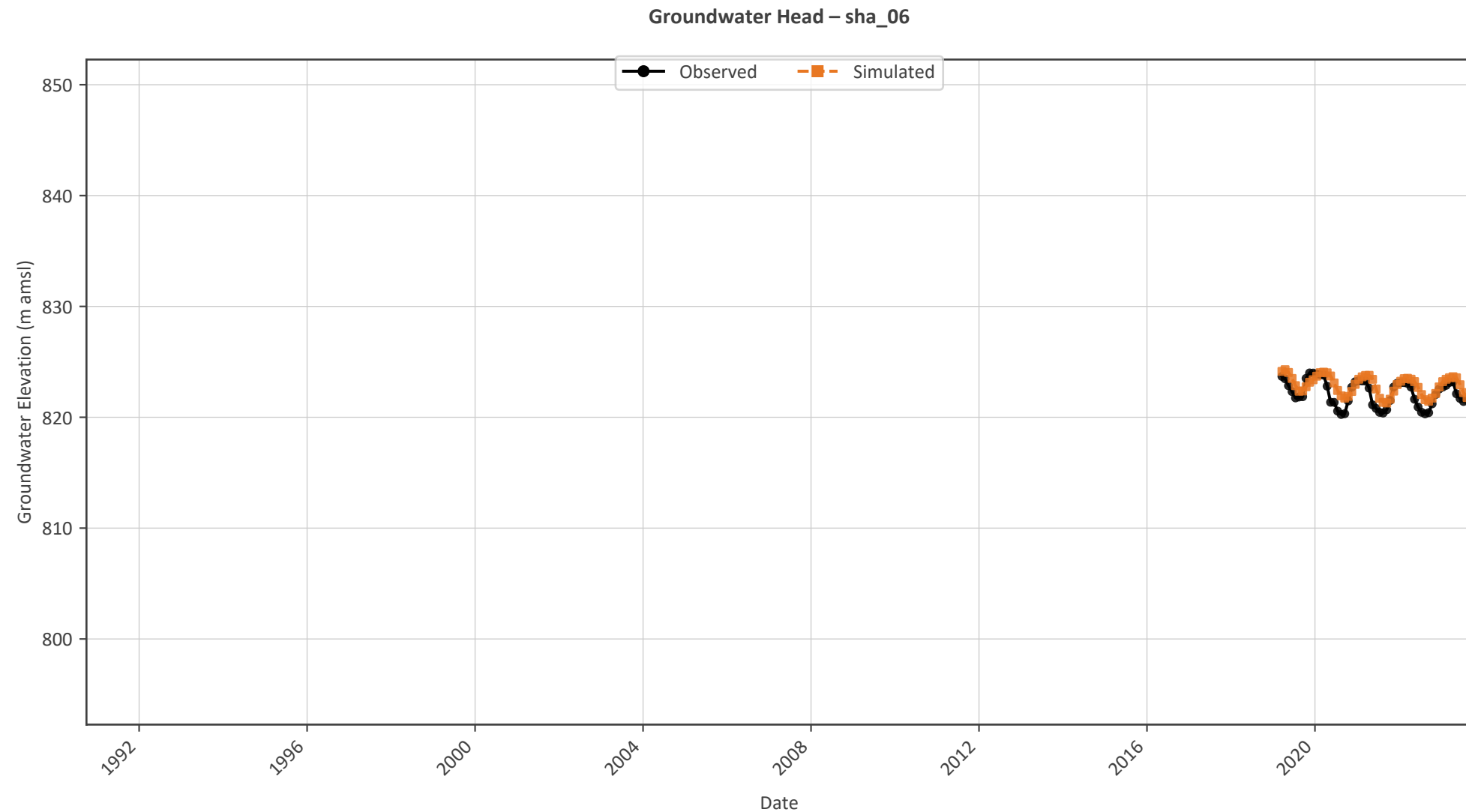




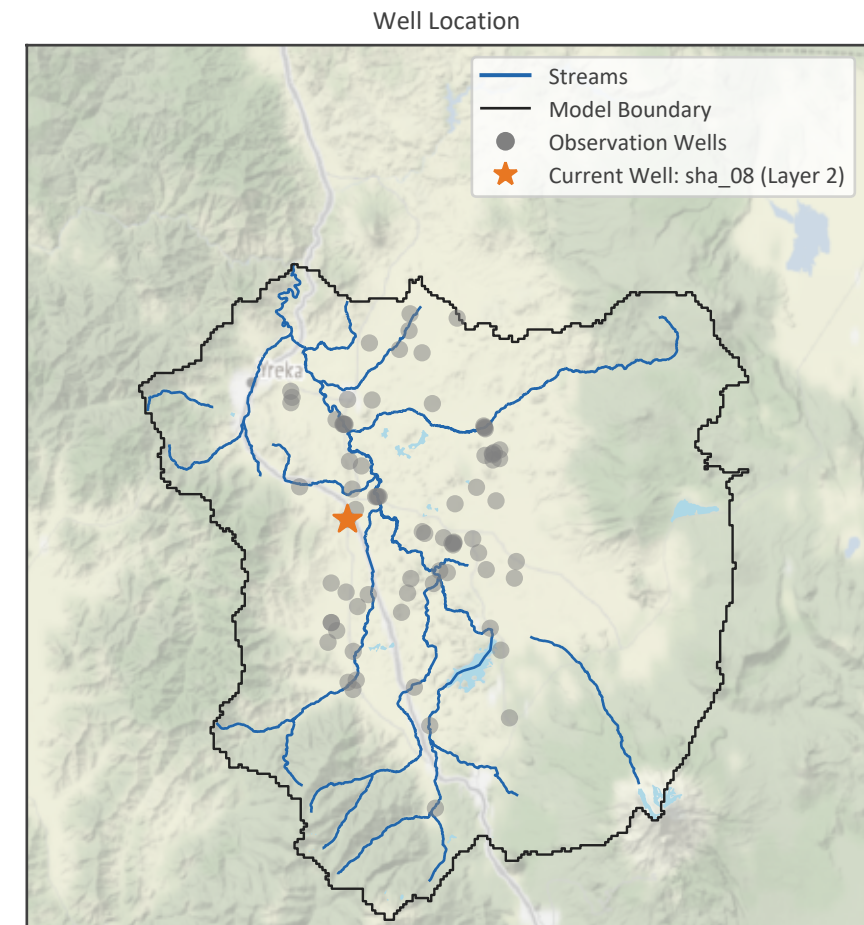
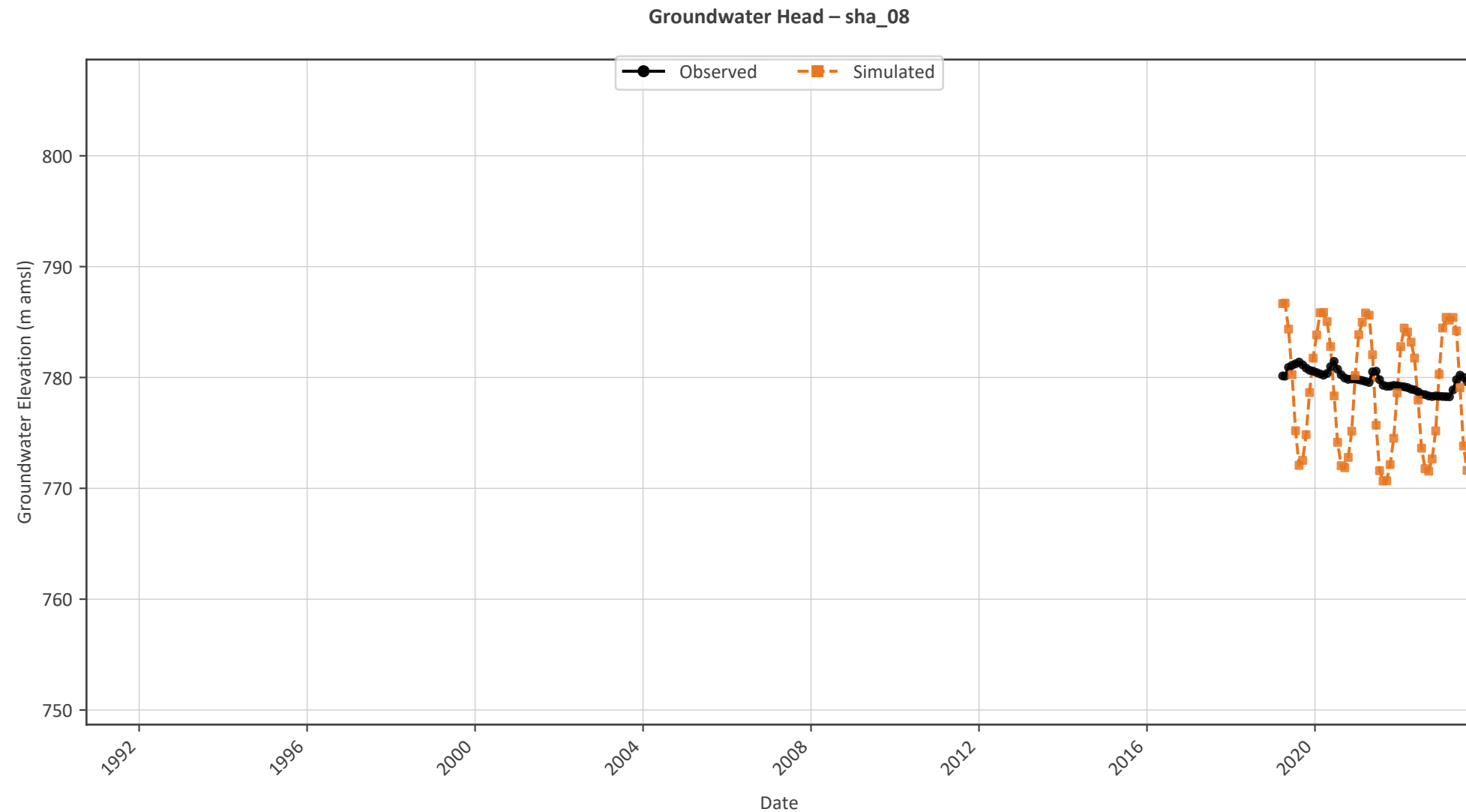
**Figure 58. Groundwater head calibration hydrograph and well location map for observation well sha\_04 (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



**Figure 59. Groundwater head calibration hydrograph and well location map for observation well sha\_05 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

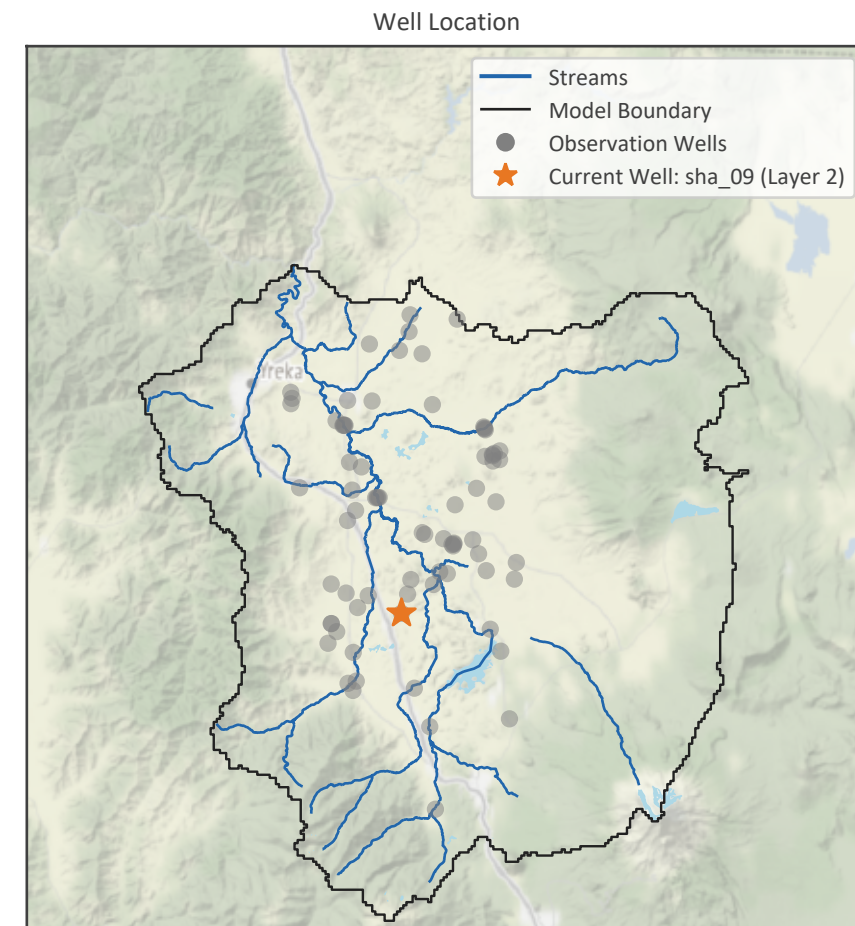
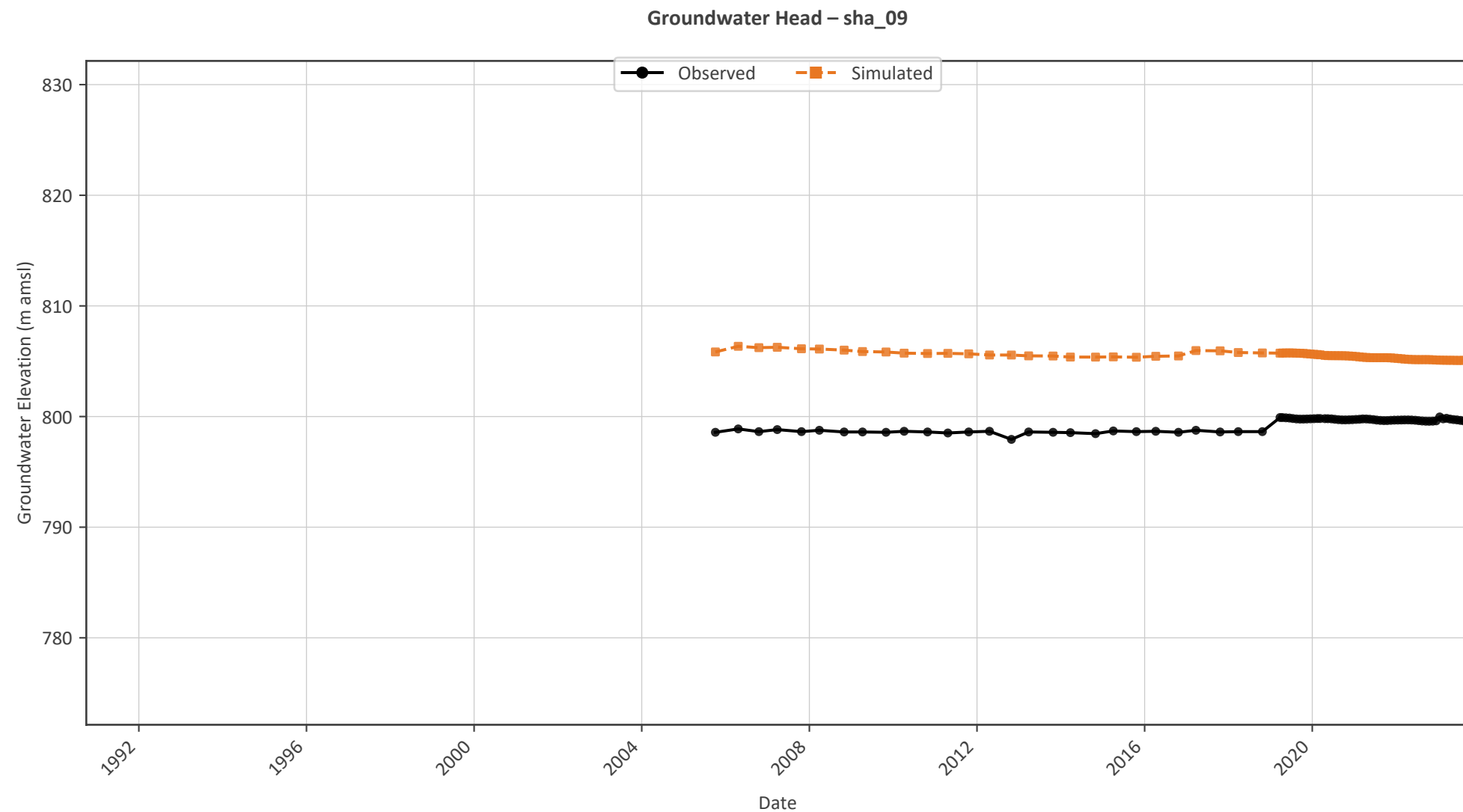


**Figure 60. Groundwater head calibration hydrograph and well location map for observation well sha\_06 (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



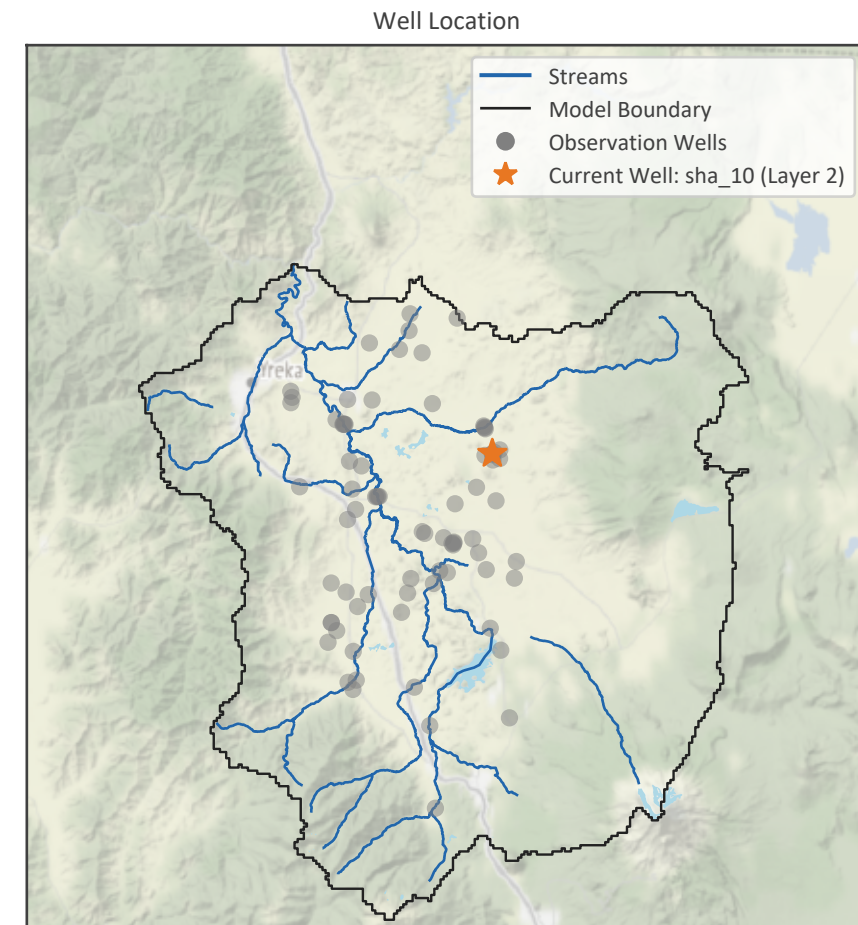
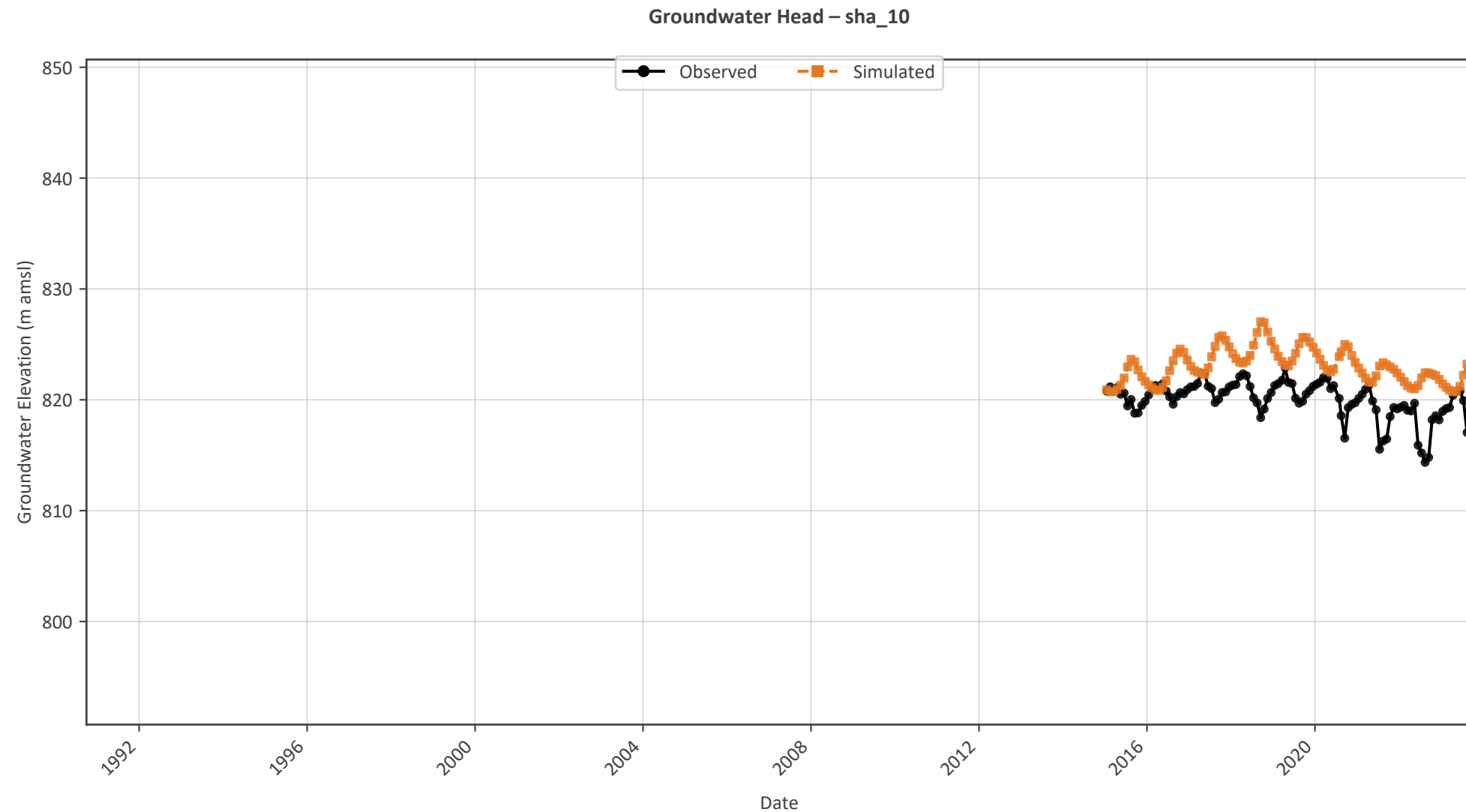
**Figure 61. Groundwater head calibration hydrograph and well location map for observation well sha\_08 (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



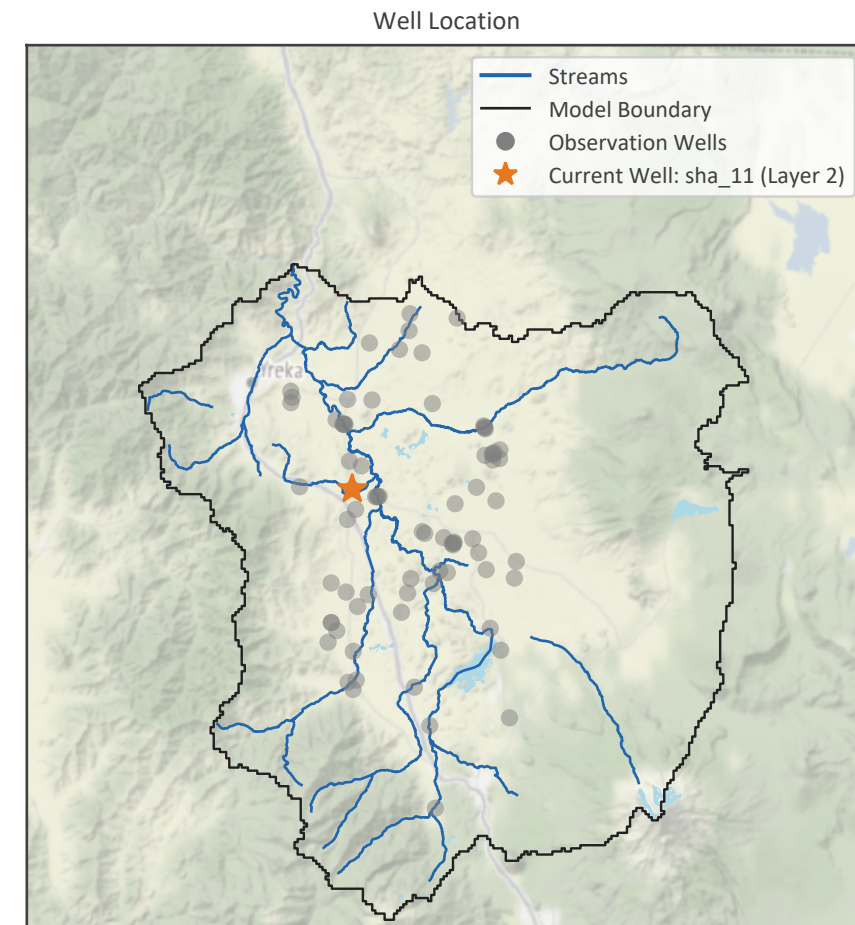
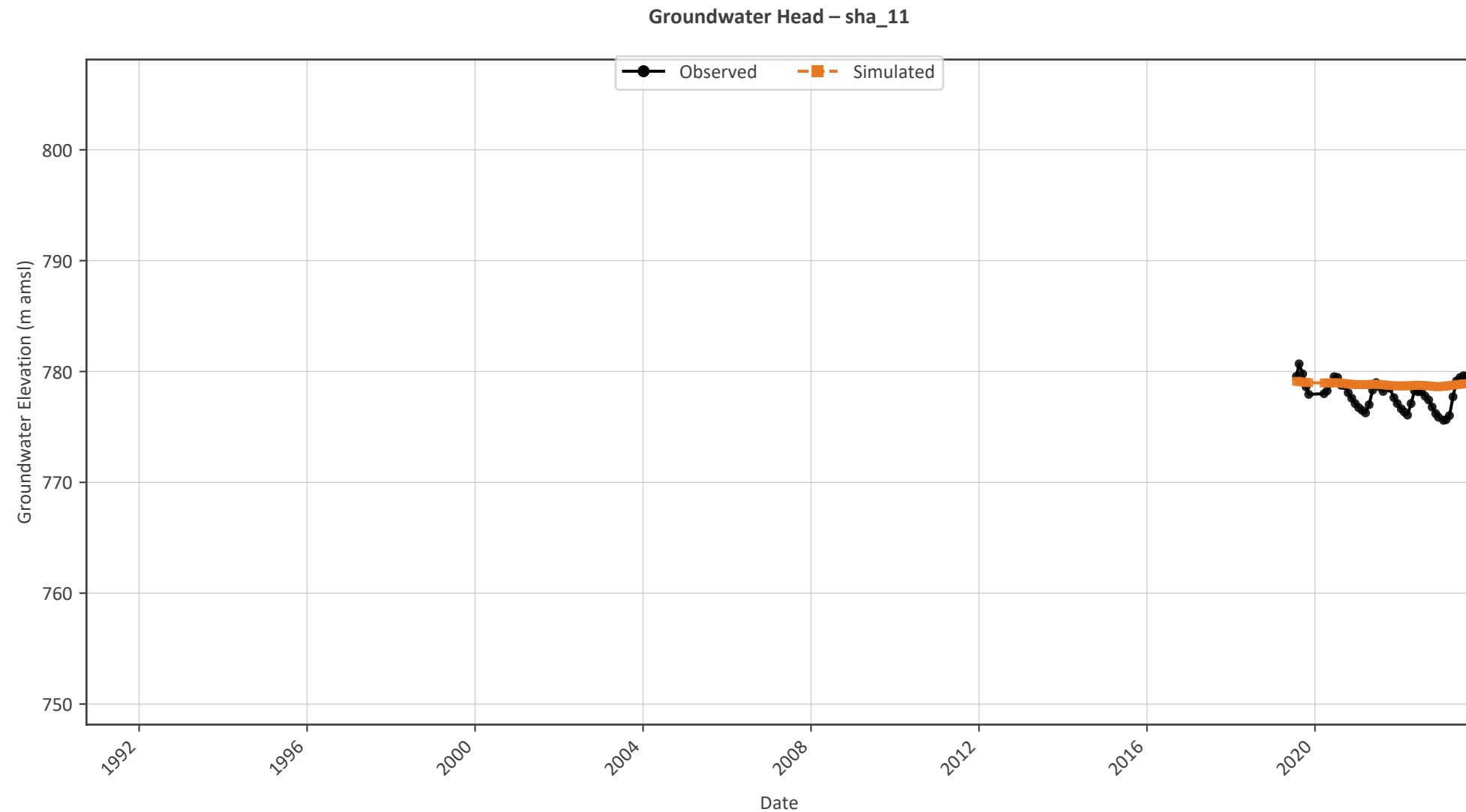


**Figure 62. Groundwater head calibration hydrograph and well location map for observation well sha\_09 (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

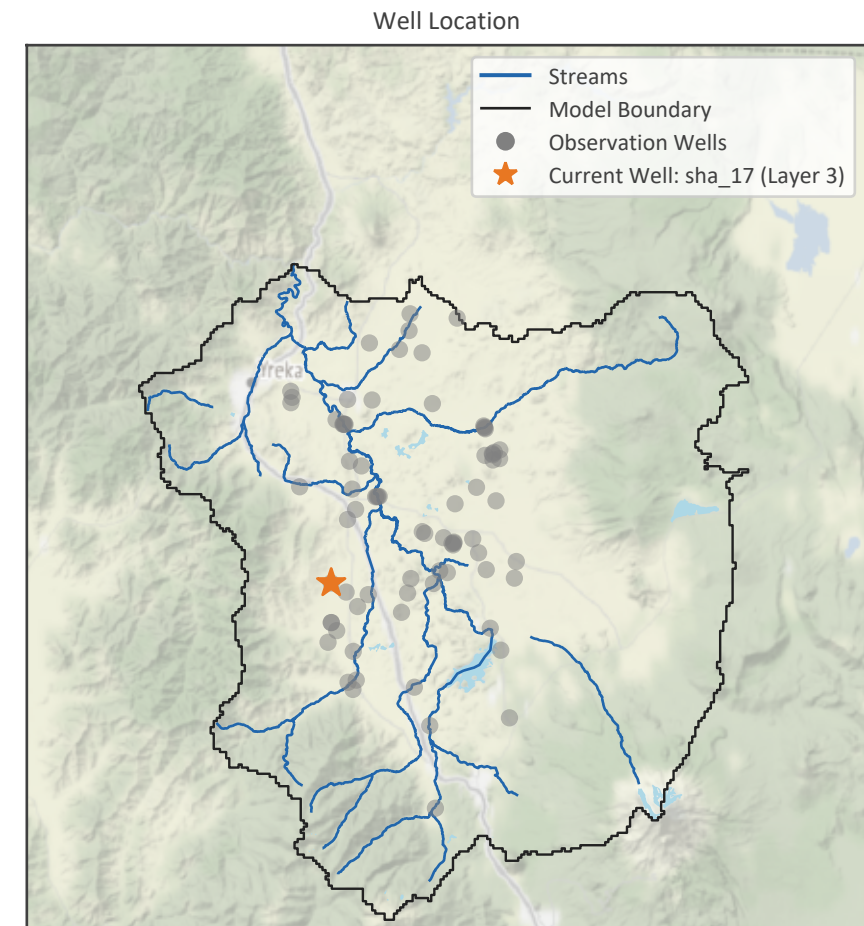
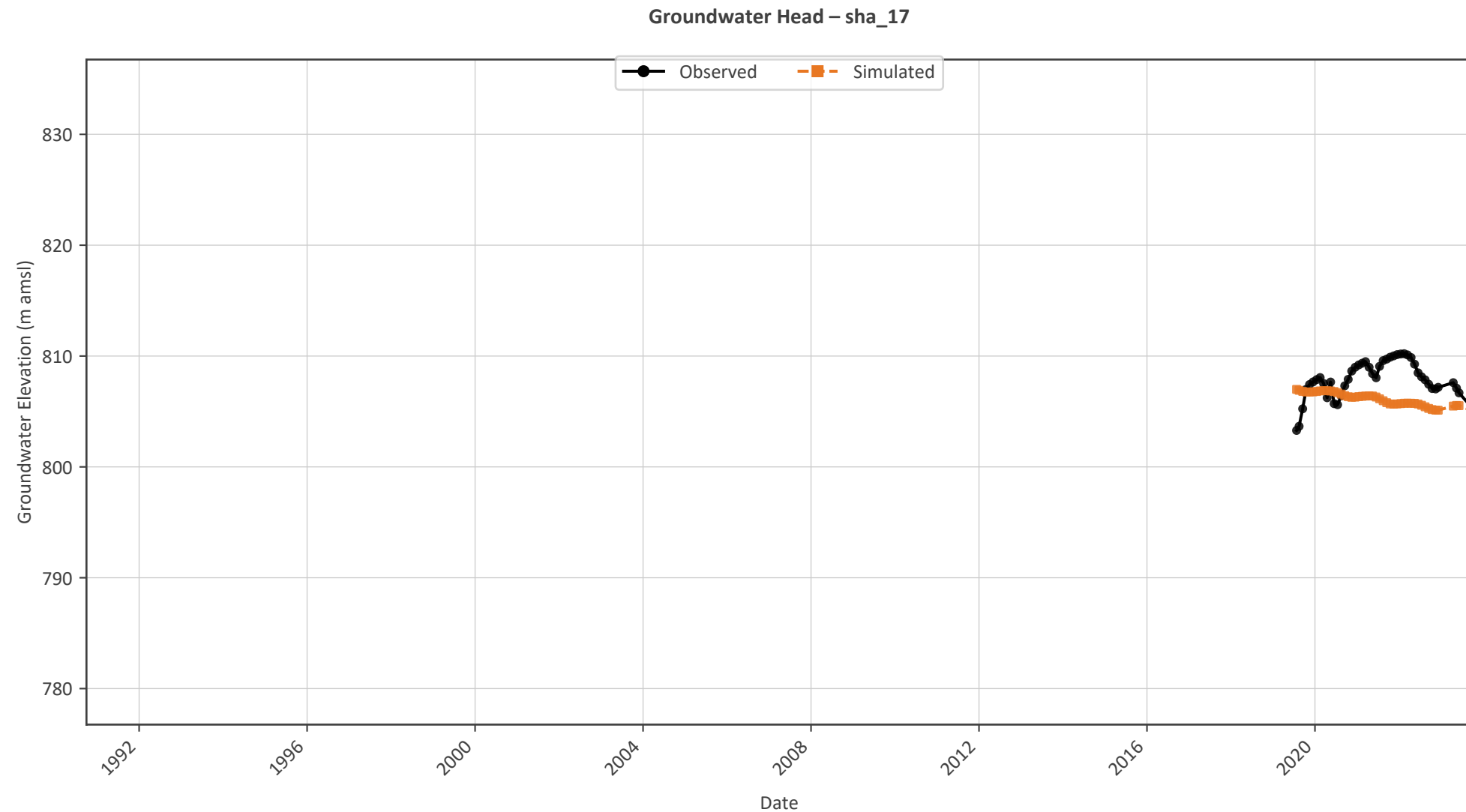




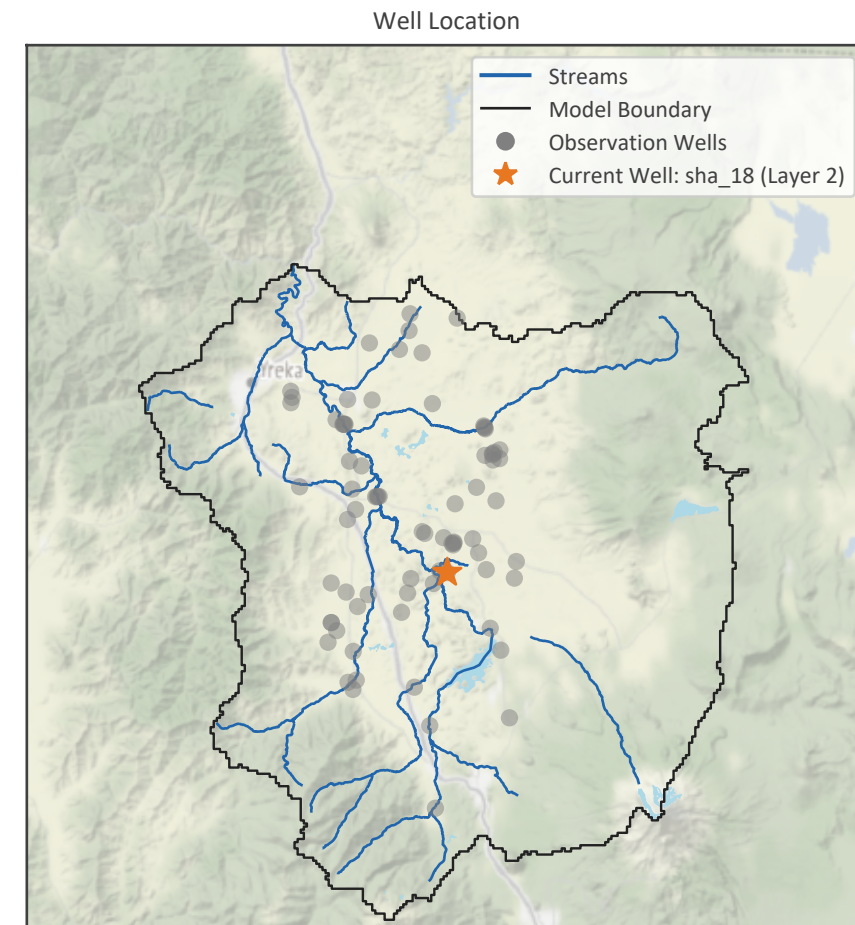
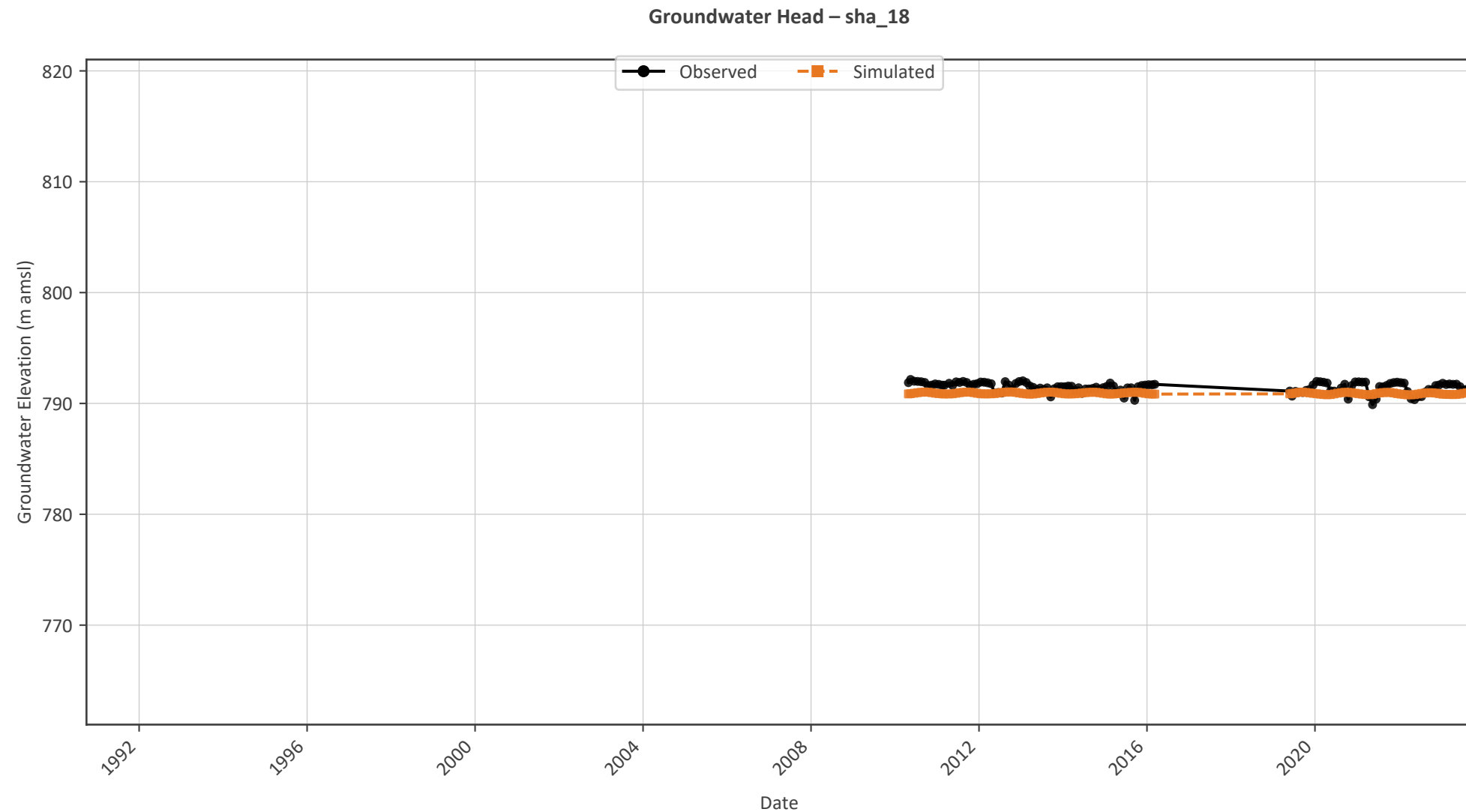
**Figure 63. Groundwater head calibration hydrograph and well location map for observation well sha\_10 (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



**Figure 64. Groundwater head calibration hydrograph and well location map for observation well sha\_11 (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

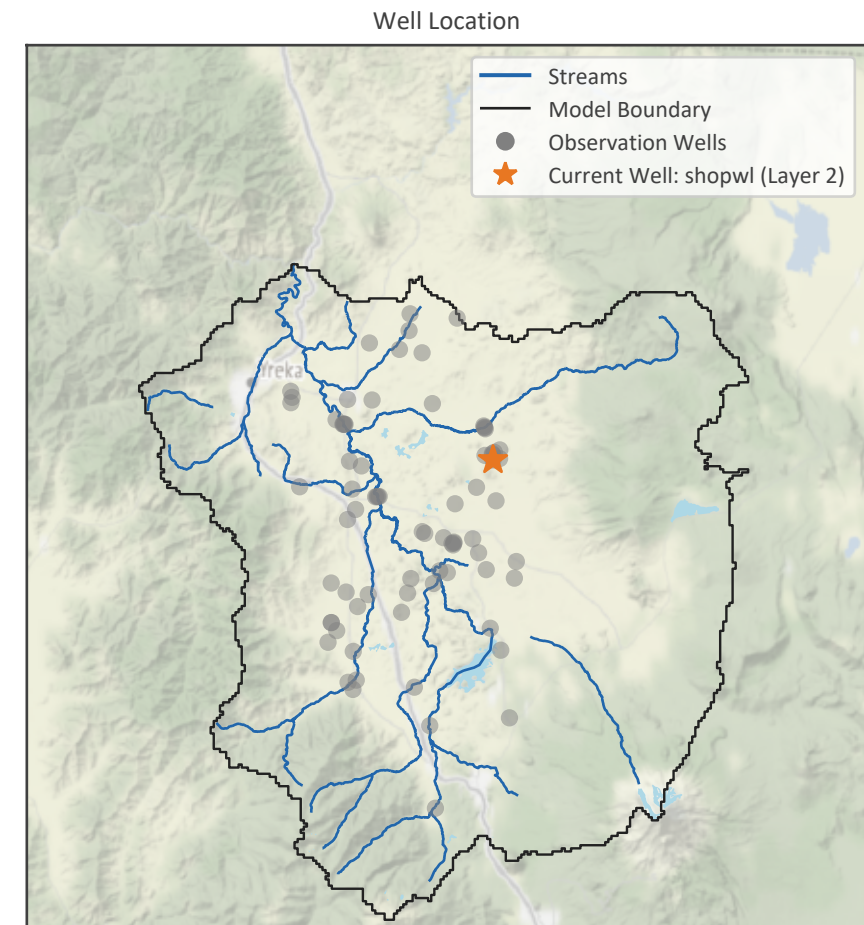
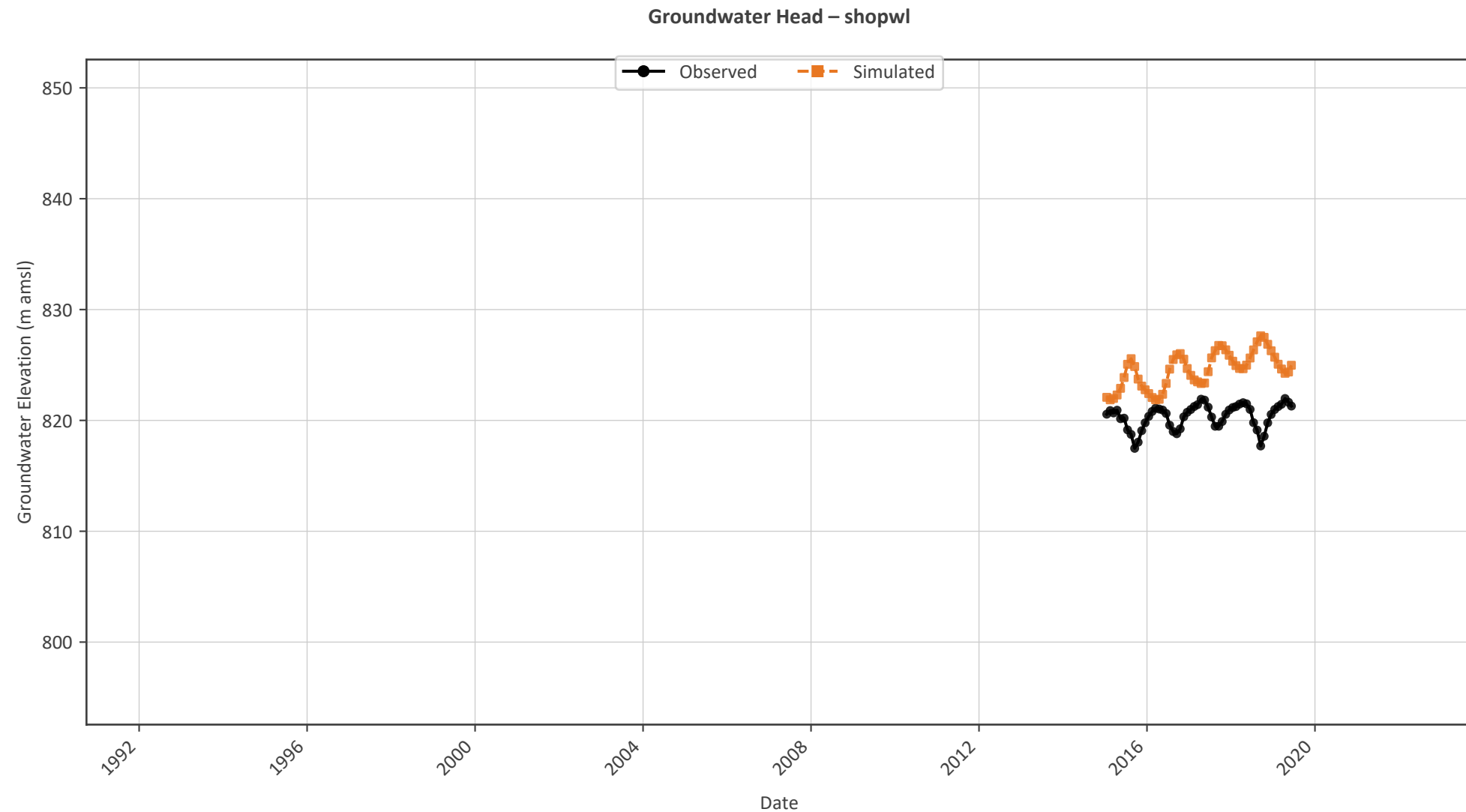


**Figure 65. Groundwater head calibration hydrograph and well location map for observation well sha\_17 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



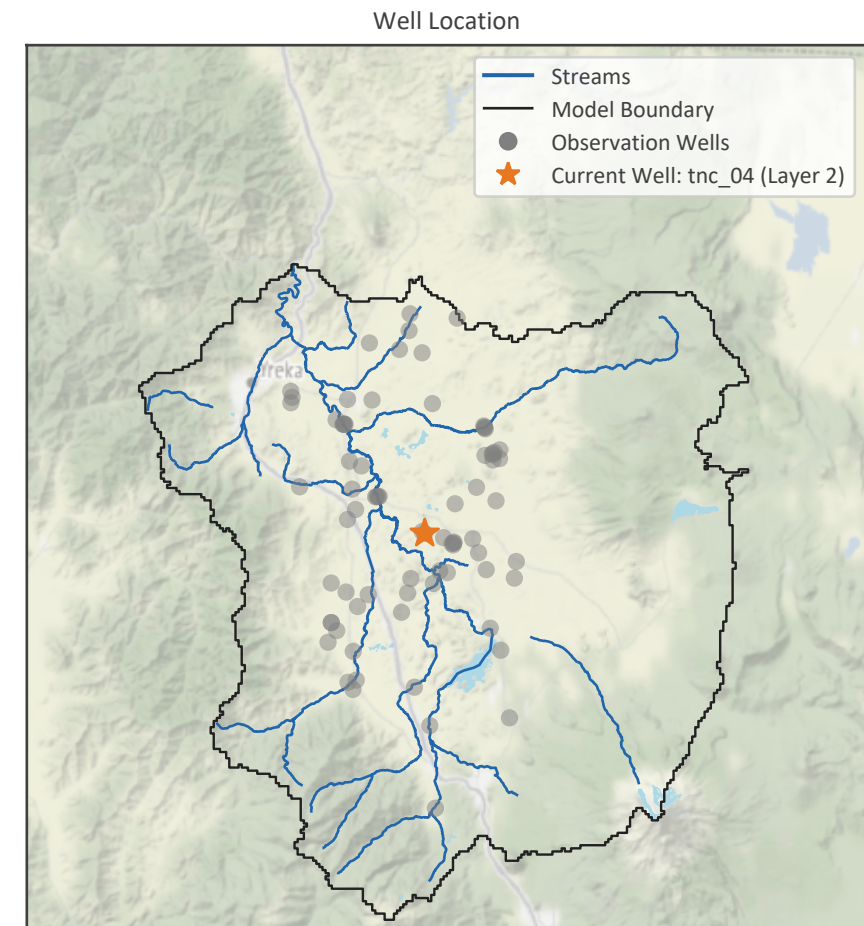
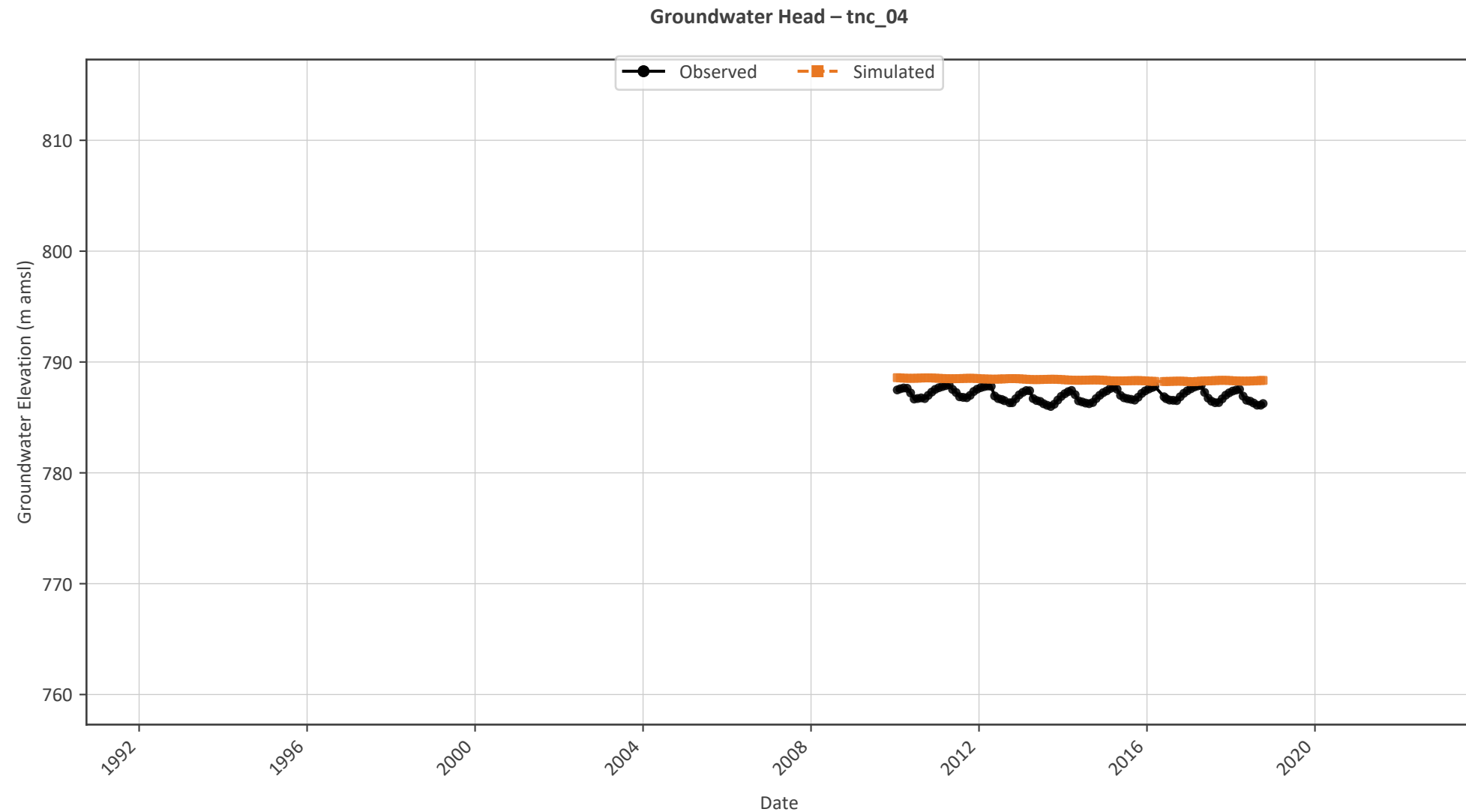
**Figure 66. Groundwater head calibration hydrograph and well location map for observation well sha\_18 (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



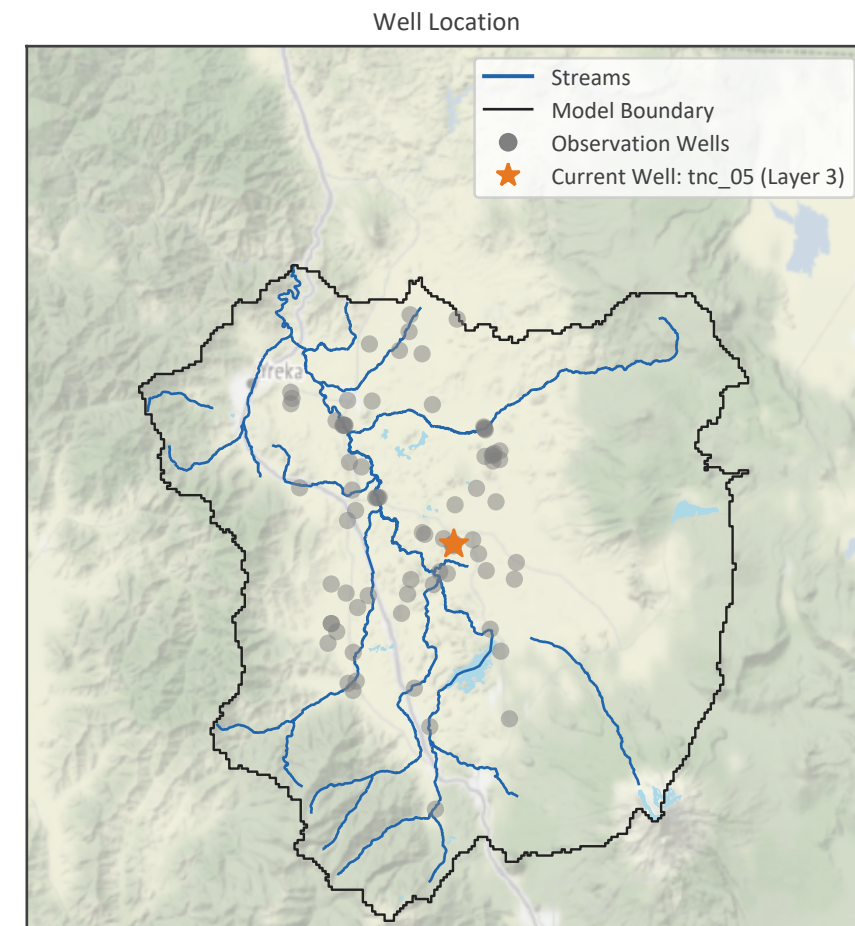
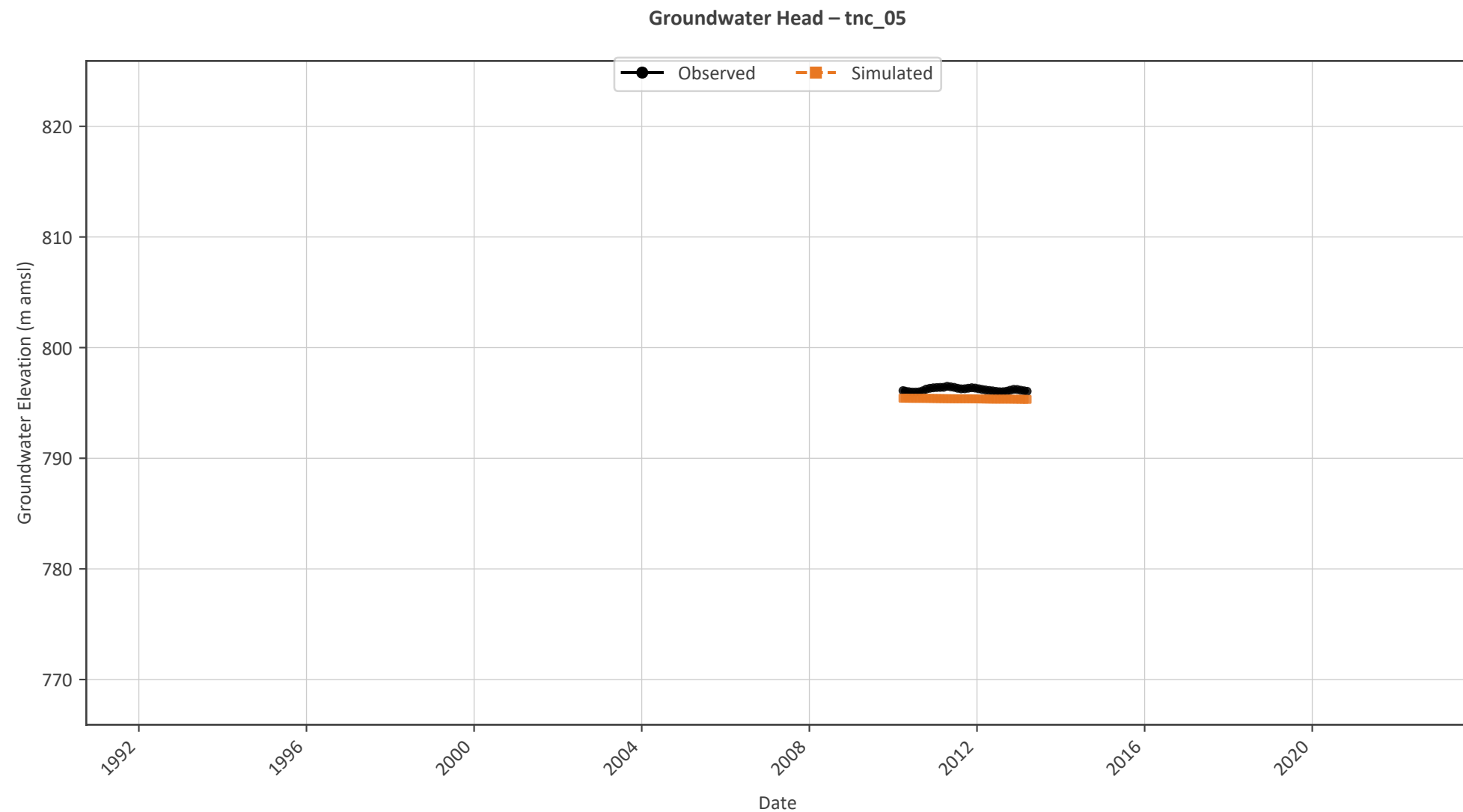


**Figure 67. Groundwater head calibration hydrograph and well location map for observation well shopwl (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

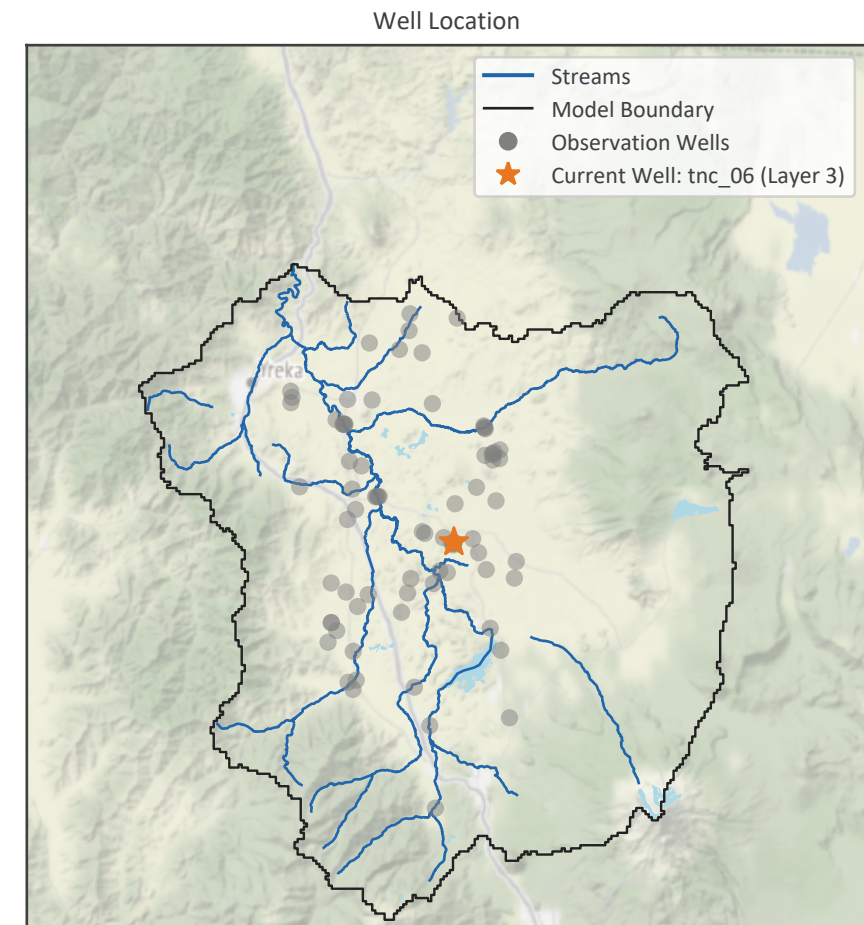
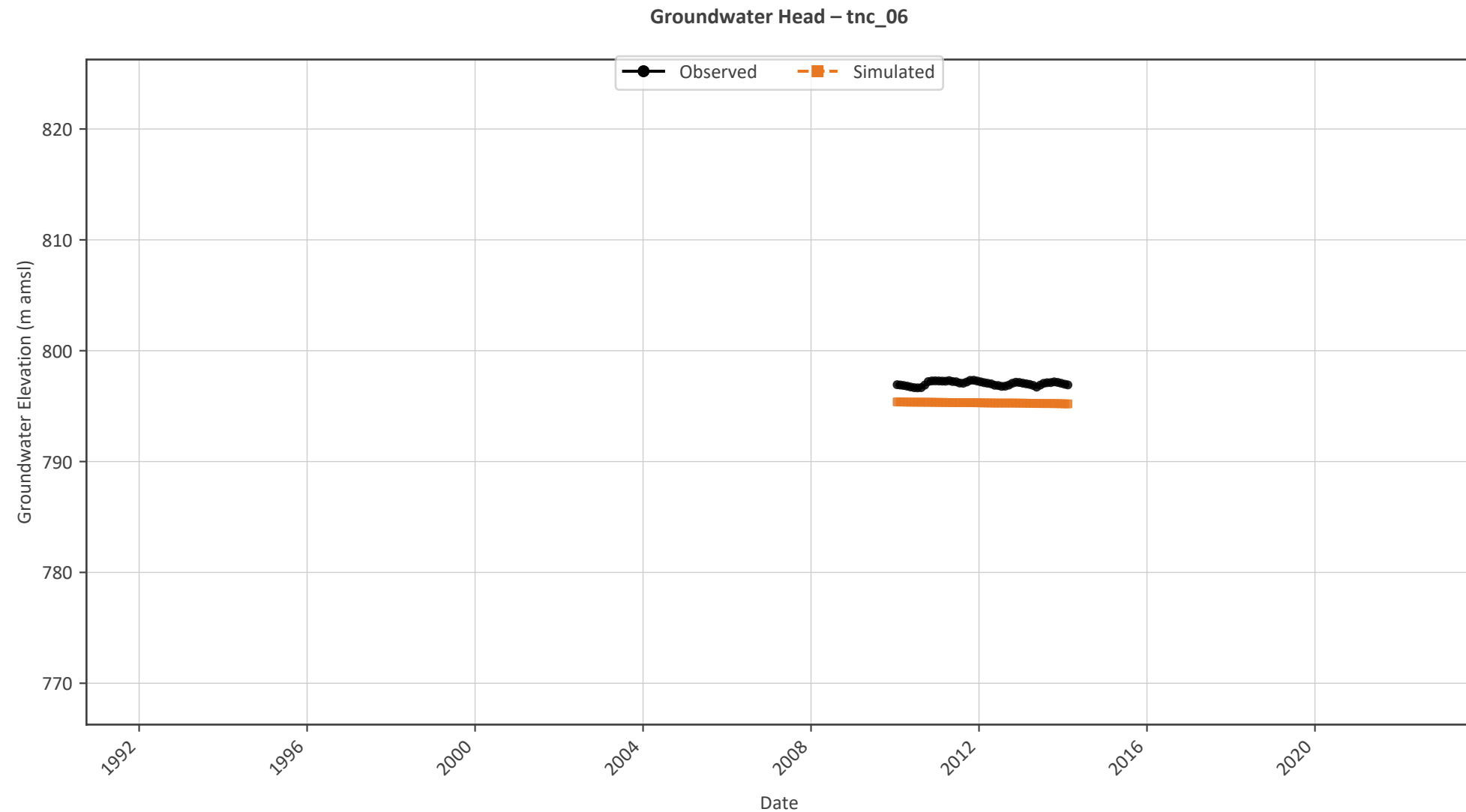




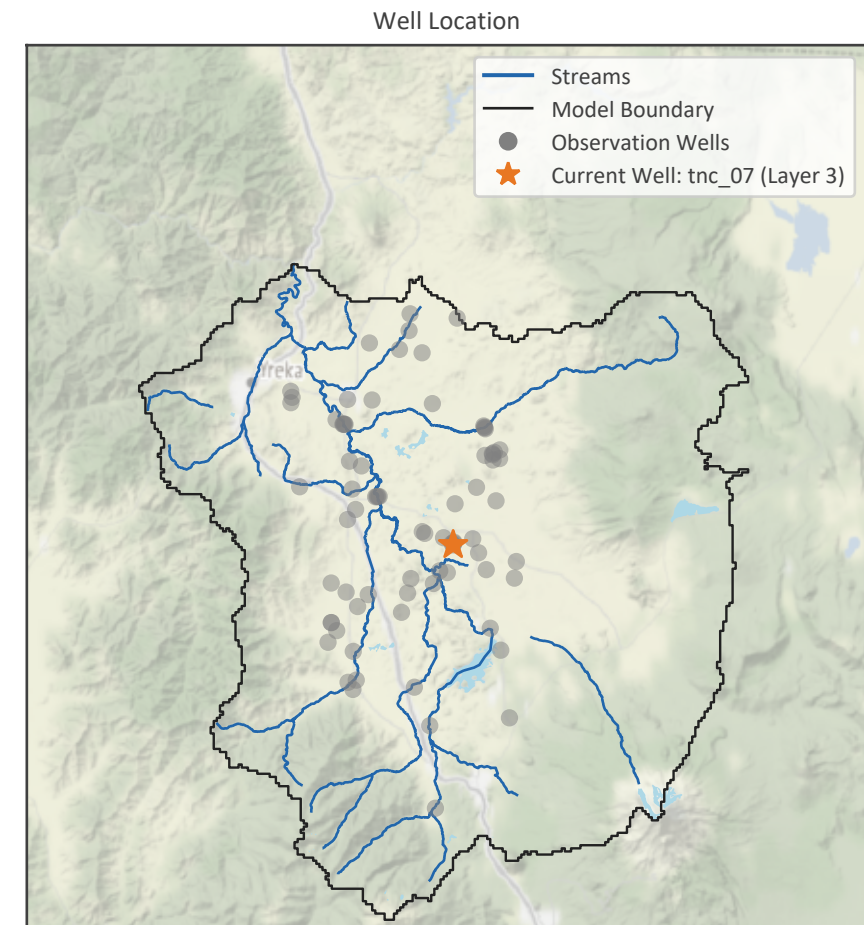
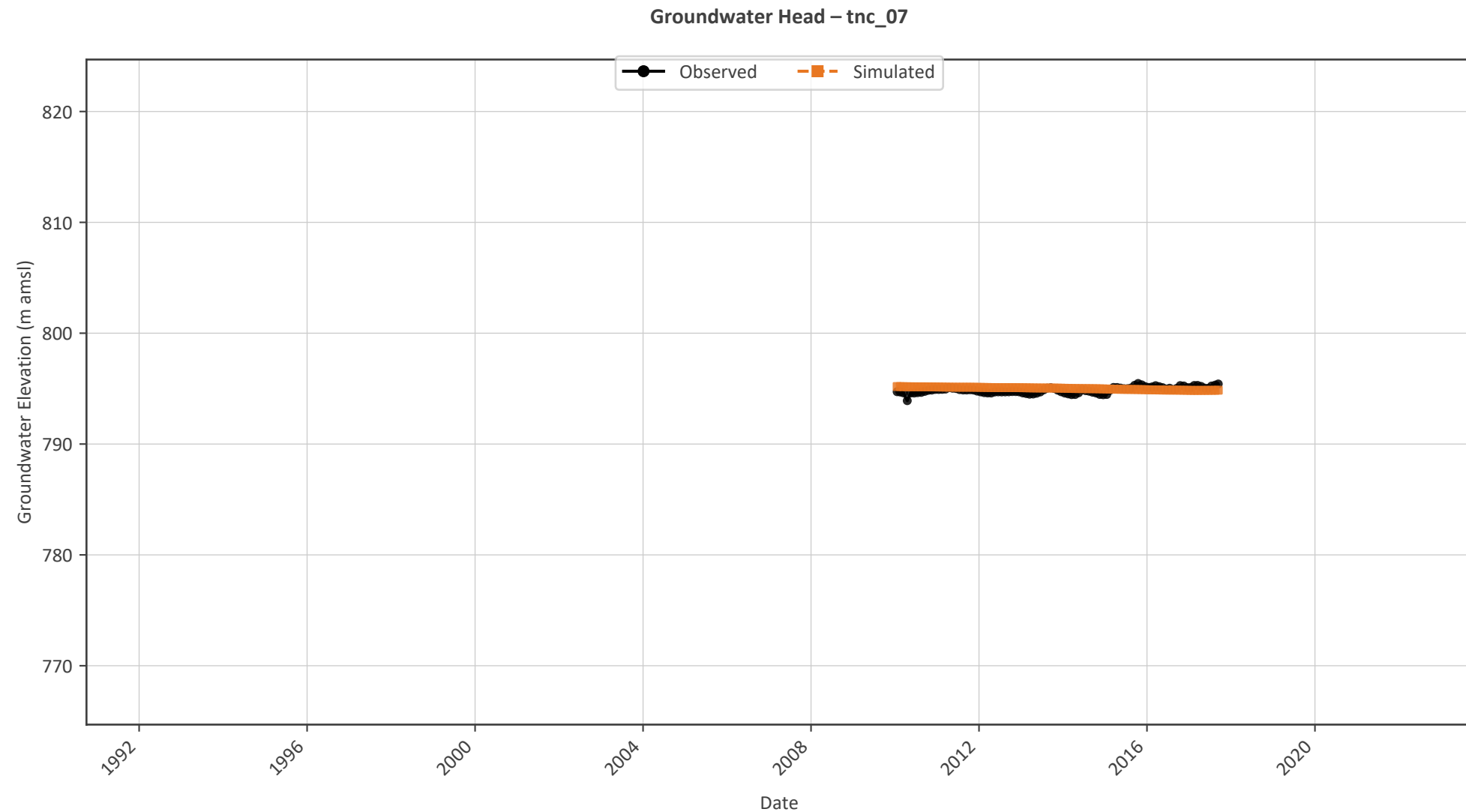
**Figure 68. Groundwater head calibration hydrograph and well location map for observation well tnc\_04 (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



**Figure 69. Groundwater head calibration hydrograph and well location map for observation well tnc\_05 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**

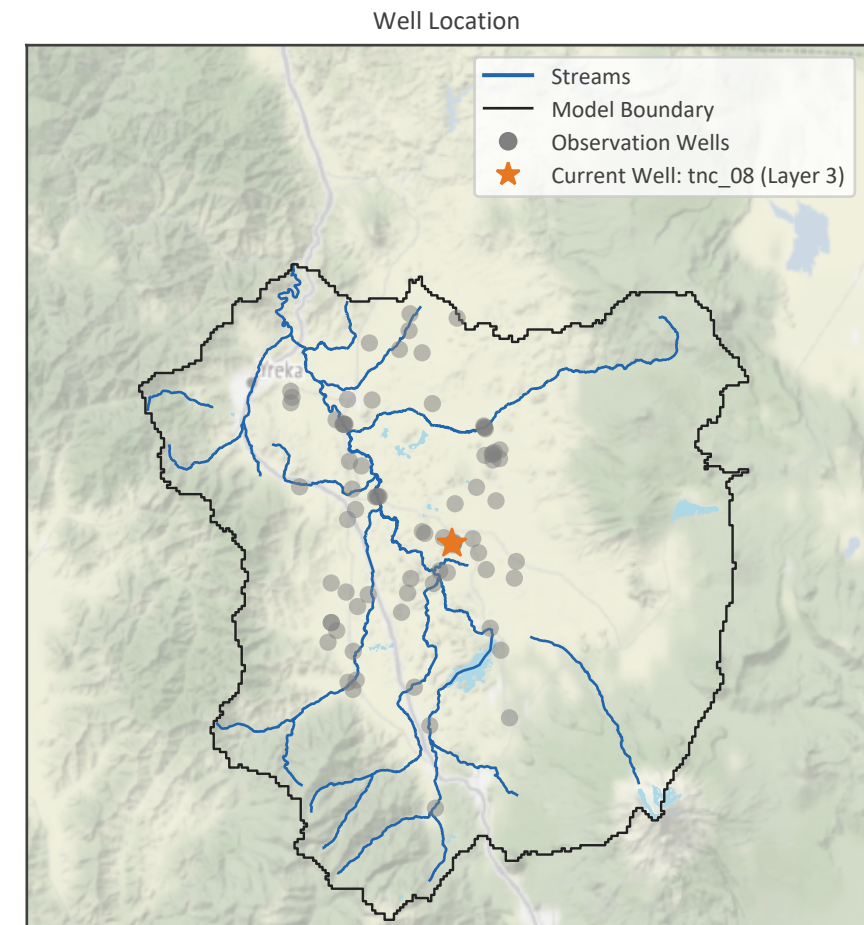
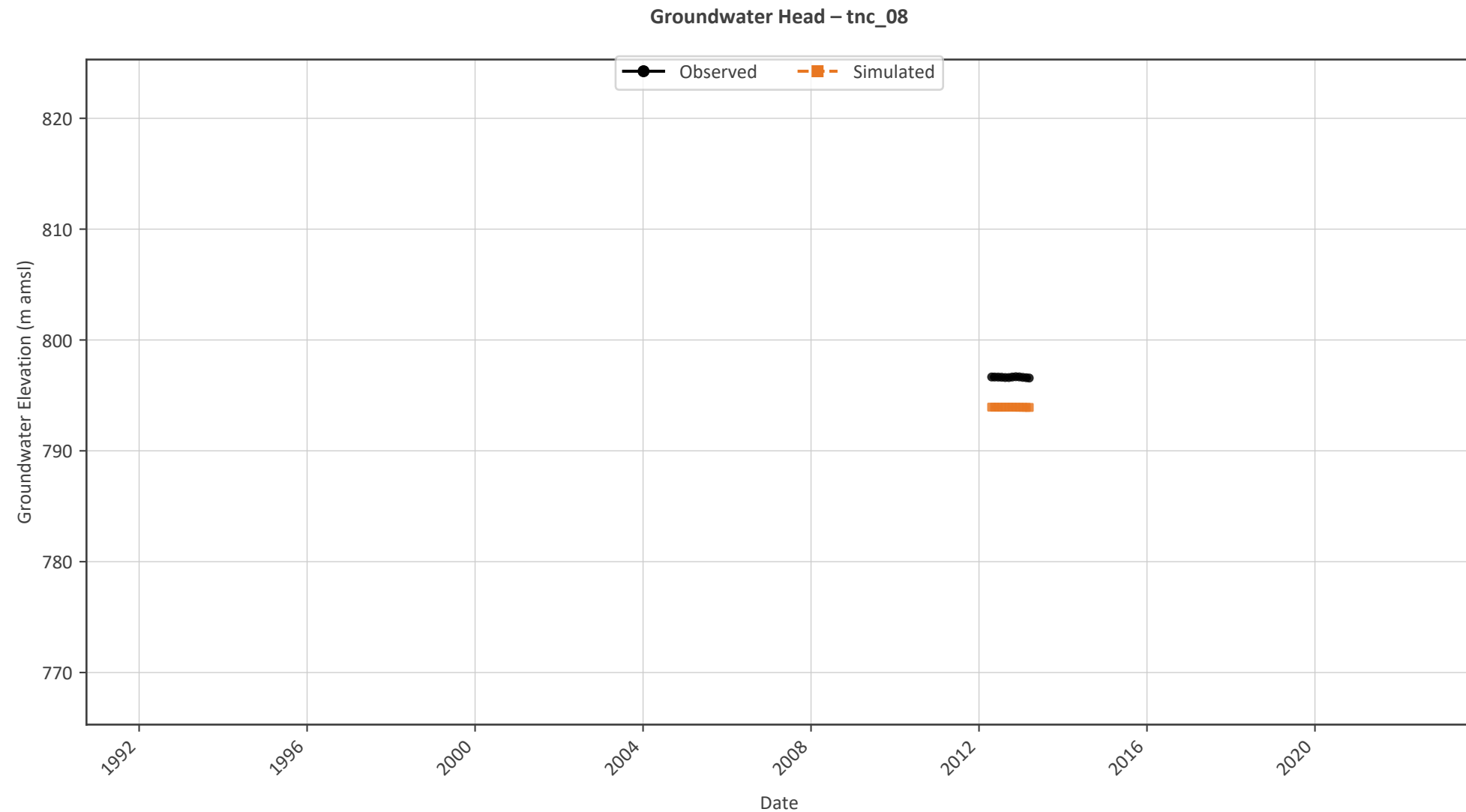


**Figure 70. Groundwater head calibration hydrograph and well location map for observation well tnc\_06 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**



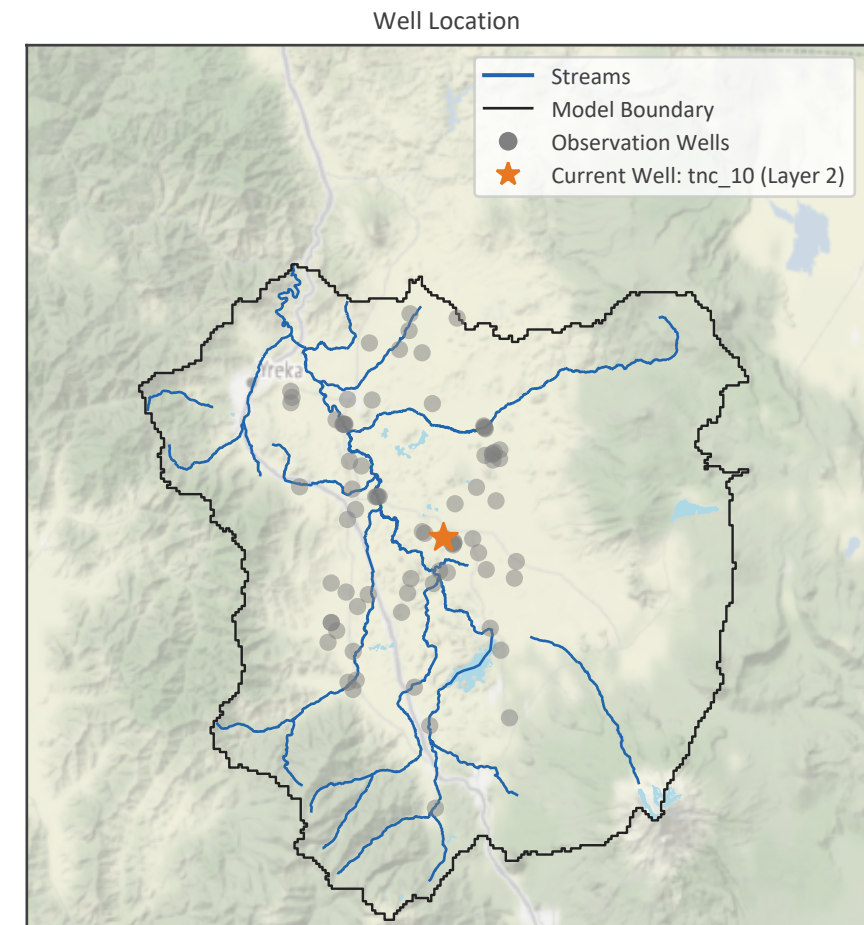
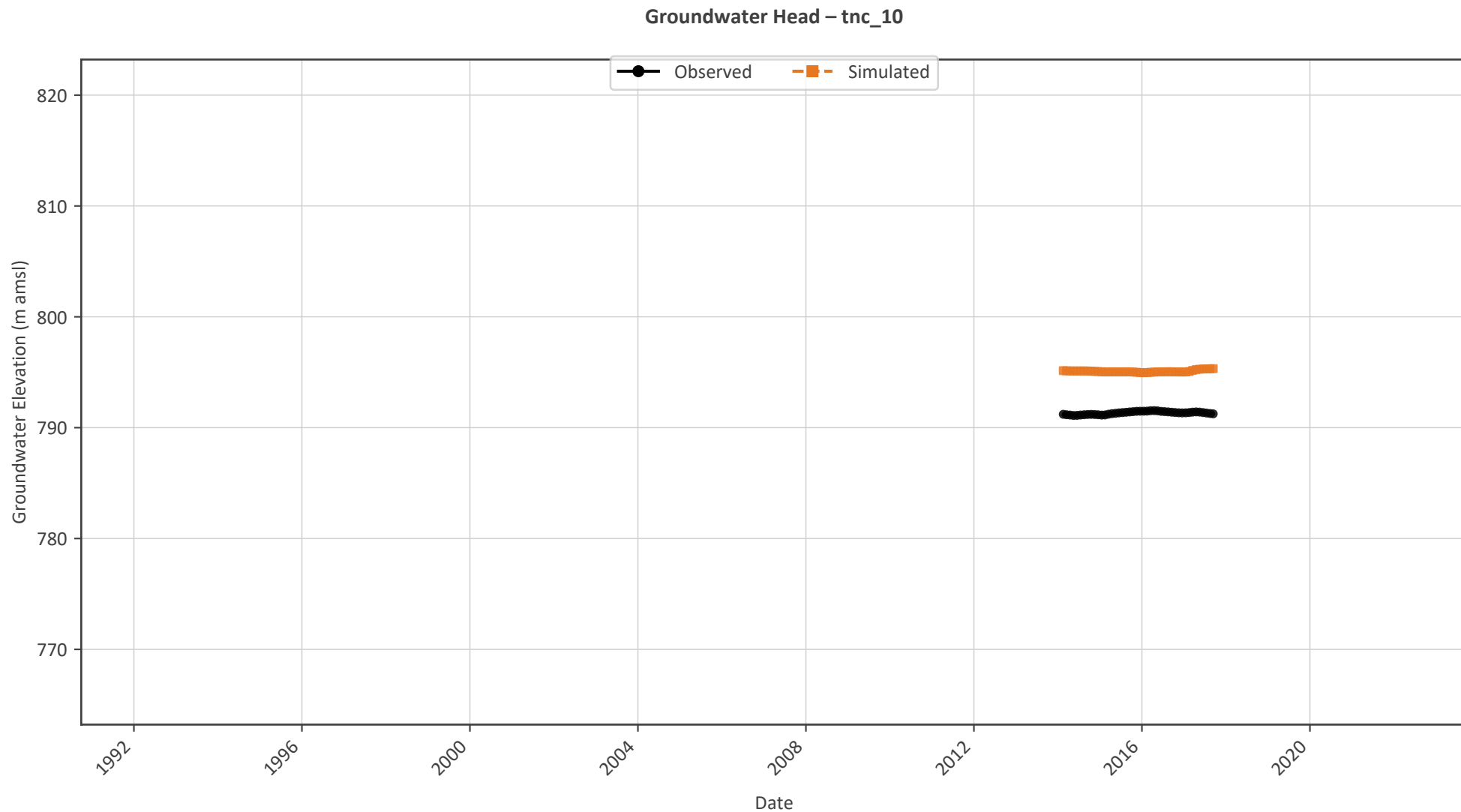
**Figure 71. Groundwater head calibration hydrograph and well location map for observation well tnc\_07 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**





**Figure 72. Groundwater head calibration hydrograph and well location map for observation well tnc\_08 (Model Layer 3). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**





**Figure 73. Groundwater head calibration hydrograph and well location map for observation well tnc\_10 (Model Layer 2). Black circles with solid line = observed groundwater elevation (m amsl); orange squares with dashed line = simulated groundwater elevation (m amsl). Simulation period: October 1990 – September 2023.**