

List of Figures

Figure 4-1.	Estimated Horizontal Head Difference, Upper Floridan Aquifer, 2001	4
Figure 4-2.	Estimated Horizontal Head Difference, Upper Floridan Aquifer, 2009	5
Figure 4-3.	Distribution of Horizontal Hydraulic Conductivity Pilot Points, Layer 1	6
Figure 4-4.	Distribution of Horizontal Hydraulic Conductivity Pilot Points, Layer 3	7
Figure 4-5.	Distribution of Horizontal Hydraulic Conductivity Pilot Points, Layer 7.....	8
Figure 4-6.	Distribution of Vertical Hydraulic Conductivity Pilot Points, Layer 6	9
Figure 4-7.	Distribution of Vertical Hydraulic Conductivity Pilot Points and Vertical Hydraulic Conductivity Multiplier Pilot Points, Model Layer 2	10
Figure 4-8.	Distribution of Vertical Hydraulic Conductivity Pilot Points and Vertical Hydraulic Conductivity Multiplier Pilot Points, Model Layer 4	11
Figure 4-9.	Distribution of Horizontal Hydraulic Conductivity Pilot Points and Horizontal Hydraulic Conductivity Multiplier Pilot Points, Model Layer 5	12
Figure 4-10.	Distribution of Anisotropy Pilot Points, Model Layer 3	13
Figure 4-11.	Residuals of Hydraulic Head (Feet), Model Layer 1, 2001	14
Figure 4-12.	Residuals of Hydraulic Head (Feet), Model Layer 1, 2009	15
Figure 4-13.	Observed Hydraulic Head (Feet NAVD88), Model Layer 1, 2001.....	16
Figure 4-14.	Observed versus Simulated Hydraulic Head (Feet NAVD88), Model Layer 1, 2009	17
Figure 4-15.	Simulated Water Table of Model Layer 1 (Feet NAVD88), 2001	18
Figure 4-16.	Simulated Water Table of Model Layer 1 (Feet NAVD88), 2009	19
Figure 4-17.	Residuals of Vertical Head Differences (Feet), Model Layers 1 and 3, 2001	20
Figure 4-18.	Residuals of Vertical Head Differences (Feet), Model Layers 1 and 3, 2009	21
Figure 4-19.	Observed versus Simulated Vertical Head Differences (Feet), Model Layers 1 and 3, 2001	22
Figure 4-20.	Observed versus Simulated Vertical Head Differences (Feet), Model Layers 1 and 3, 2009	23
Figure 4-21.	Residuals of Hydraulic Head (Feet), Model Layer 3, 2001	24
Figure 4-22.	Residuals of Hydraulic Head (Feet), Model Layer 3, 2009	25
Figure 4-23.	Observed versus Simulated Hydraulic Head (Feet NAVD88), Model Layer 3, 2001	26
Figure 4-24.	Observed versus Simulated Hydraulic Head (Feet NAVD88), Model Layer 3, 2009	27
Figure 4-25.	Residuals of Horizontal Head Differences (Feet), Model Layer 3, 2001	28
Figure 4-26.	Residuals of Horizontal Head Differences (Feet), Model Layer 3, 2009	29
Figure 4-27.	Observed versus Simulated Horizontal Head Differences (Feet), Model Layer 3, 2001.....	30
Figure 4-28.	Observed versus Simulated Horizontal Head Differences (Feet), Model Layer 3, 2009.....	31
Figure 4-29.	Simulated Potentiometric Surface, Model Layer 3 (Feet NAVD88), 2001	32
Figure 4-30.	Simulated Potentiometric Surface, Model Layer 3 (Feet NAVD88), 2009	33
Figure 4-31.	Residuals of Vertical Head Differences (Feet), Model Layers 3 and 5, 2001	34
Figure 4-32.	Residuals of Vertical Head Differences (Feet), Model Layers 3 and 5, 2009	35
Figure 4-33.	Observed versus Simulated Vertical Head Differences (Feet), Model Layers 3 and 5, 2001	36
Figure 4-34.	Observed versus Simulated Vertical Head Differences (Feet), Model Layers 3 and 5, 2009	37
Figure 4-35.	Residuals of Hydraulic Head (Feet), Model Layer 5, 2001	38
Figure 4-36.	Residuals of Hydraulic Head (Feet), Model Layer 5, 2009	39
Figure 4-37.	Observed versus Simulated Hydraulic Head (Feet NAVD88), Model Layer 5, 2001	40

Figure 4-38.	Observed versus Simulated Hydraulic Head (Feet NAVD88), Model Layer 5, 2009	41
Figure 4-39.	Simulated Potentiometric Surface, Model Layer 5 (Feet NAVD88), 2001	42
Figure 4-40.	Simulated Potentiometric Surface, Model Layer 5 (Feet NAVD88), 2009	43
Figure 4-41.	Magnitude 1 Springs and Spring Groups and Corresponding Estimated Flowrates and Flowrate Residuals (cfs), 2001	44
Figure 4-42.	Magnitude 1 Springs and Spring Groups and Corresponding Estimated Flowrates and Flowrate Residuals (cfs), 2009	45
Figure 4-43.	Observed vs. Simulated Spring Discharges (cfs), 2001	46
Figure 4-44.	Observed vs. Simulated Spring Discharges (cfs), 2009	47
Figure 4-45.	Observed vs. Simulated Spring-Group Discharges (cfs), 2001	48
Figure 4-46.	Observed vs. Simulated Spring-Group Discharges (cfs), 2009	49
Figure 4-47.	Estimated Baseflow Pickup Residuals (cfs), Region A, 2001	50
Figure 4-48.	Estimated Baseflow Pickup Residuals (cfs), Region B, 2001	51
Figure 4-49.	Estimated Baseflow Pickup Residuals (cfs), Region C, 2001	52
Figure 4-50.	Estimated Baseflow Pickup Residuals (cfs), Region A, 2009	53
Figure 4-51.	Estimated Baseflow Pickup Residuals (cfs), Region B, 2009	54
Figure 4-52.	Estimated Baseflow Pickup Residuals (cfs), Region C, 2009	55
Figure 4-53.	Estimated versus Simulated Baseflow Pickups (cfs), 2001	56
Figure 4-54.	Estimated versus Simulated Baseflow Pickups (cfs), 2009	57
Figure 4-55.	Cumulative Baseflow Residuals (cfs), 2001	58
Figure 4-56.	Estimated vs. Simulated Cumulative Baseflows (cfs), 2009	59
Figure 4-57.	Estimated vs. Simulated Cumulative Baseflows (cfs), 2001	60
Figure 4-58.	Estimated Cumulative Baseflow Residuals (cfs), 2009	61
Figure 4-59.	Simulated Net Recharge Rates (Inches/Year), 2001	62
Figure 4-60.	Simulated Net Recharge Rates (Inches/Year), 2009	63
Figure 4-61.	Flow Through Lower Face, Layer 2, 2001 (Downward Leakage Rate, Layer 2 to 3, Inches/Year)	64
Figure 4-62.	Flow Through Lower Face, Layer 2, 2009 (Downward Leakage Rate, Layer 2 to 3, Inches/Year)	65
Figure 4-63.	Flow Through Lower Face, Layer 2, 2001 (Upward Leakage Rate, Layer 3 to 2, Inches/Year)	66
Figure 4-64.	Flow Through Lower Face, Layer 2, 2009 (Upward Leakage Rate, Layer 3 to 2, Inches/Year)	67
Figure 4-65.	Flow Through Lower Face, Layer 4, 2001 (Downward Leakage Rate, Layer 4 to 5, Inches/Year)	68
Figure 4-66.	Flow Through Lower Face, Layer 4, 2009 (Downward Leakage Rate, Layer 4 to 5, Inches/Year)	69
Figure 4-67.	Flow Through Lower Face, Layer 4, 2001 (Upward Leakage Rate, Layer 5 to 4, Inches/Year)	70
Figure 4-68.	Flow Through Lower Face, Layer 4, 2009 (Upward Leakage Rate, Layer 5 to 4, Inches/Year)	71
Figure 4-69.	Modeled Distribution of Horizontal Hydraulic Conductivity (Feet/Day), Model Layer 1 ...	72
Figure 4-70.	Modeled Distribution of Horizontal Hydraulic Conductivity (Feet/Day), Model Layer 3 ...	73
Figure 4-71.	Modeled Distribution of Horizontal Hydraulic Conductivity (Feet/Day), Model Layer 5 ...	74
Figure 4-72.	Modeled Distribution of Horizontal Hydraulic Conductivity (Feet/Day), Model Layer 7 ...	75
Figure 4-73.	Spatial Distribution of Transmissivity (Feet Squared/Day), Model Layer 3	76
Figure 4-74.	Spatial Distribution of Transmissivity (Feet Squared per Day), Upper Floridan Aquifer – Layers 1-3 unconfined region, Layer 1 confined region	77

Figure 4-75.	Difference in Transmissivity of Layer-3 and Upper-Floridan-Aquifer Transmissivity Distributions (Feet Squared per Day)	78
Figure 4-76.	Multi-Well-APT-Derived Transmissivity versus Calibration-Derived Transmissivity (Feet Squared per Day), Upper Floridan Aquifer	79
Figure 4-77.	Spatial Distribution of Transmissivity (Feet Squared/Day), Model Layer 5	80
Figure 4-78.	Modeled Distribution of Vertical Hydraulic Conductivity (Feet/Day), Model Layer 2.....	81
Figure 4-79.	Modeled Distribution of Vertical Hydraulic Conductivity (Feet/Day), Model Layer 4.....	82
Figure 4-80.	Modeled Distribution of Vertical Hydraulic Conductivity (Feet/Day), Model Layer 6.....	83
Figure 4-81.	Modeled Distribution of Leakance, Model Layer 2.....	84
Figure 4-82.	Modeled Distribution of Leakance, Model Layer 4.....	85

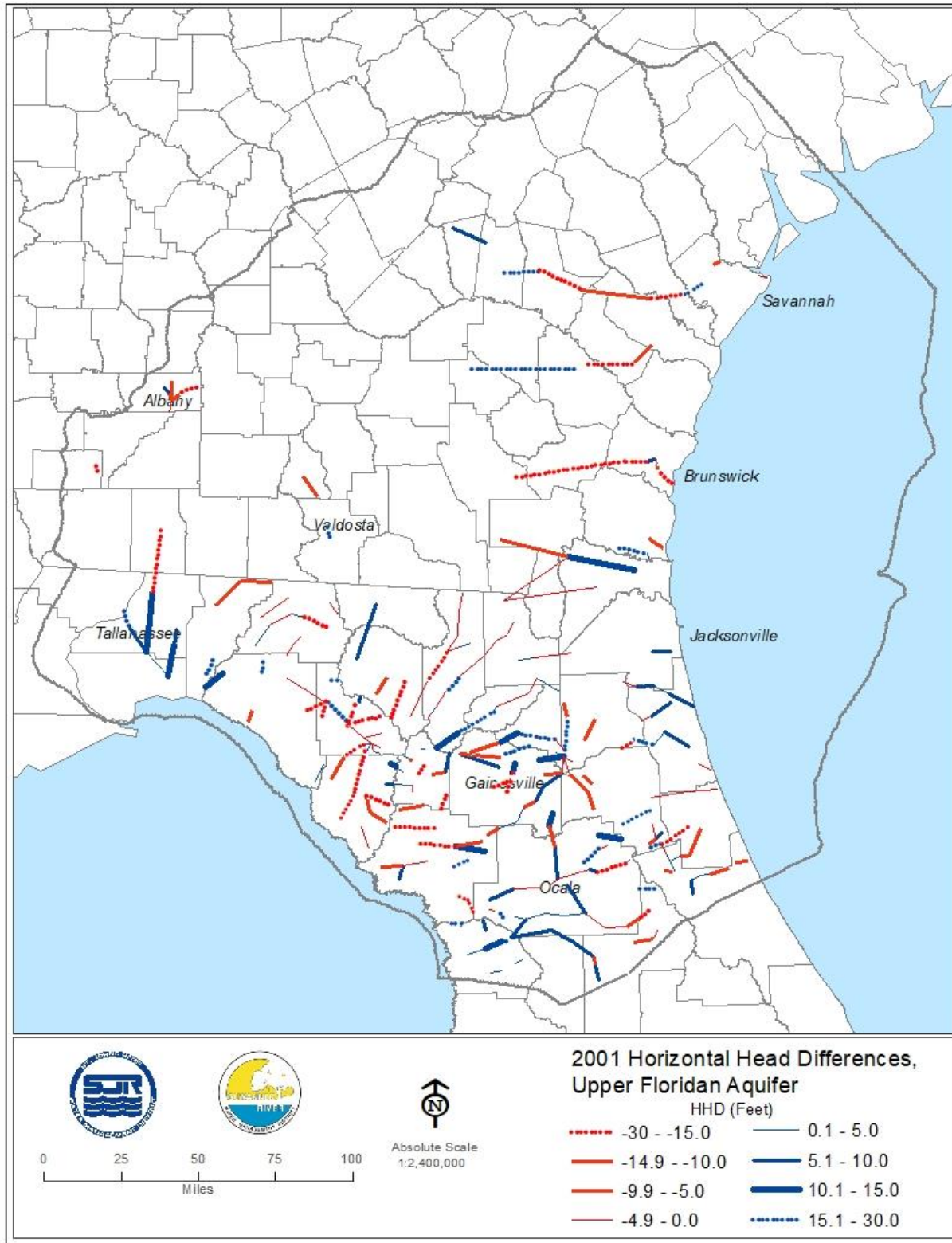


Figure 4-1. Estimated Horizontal Head Difference, Upper Floridan Aquifer, 2001

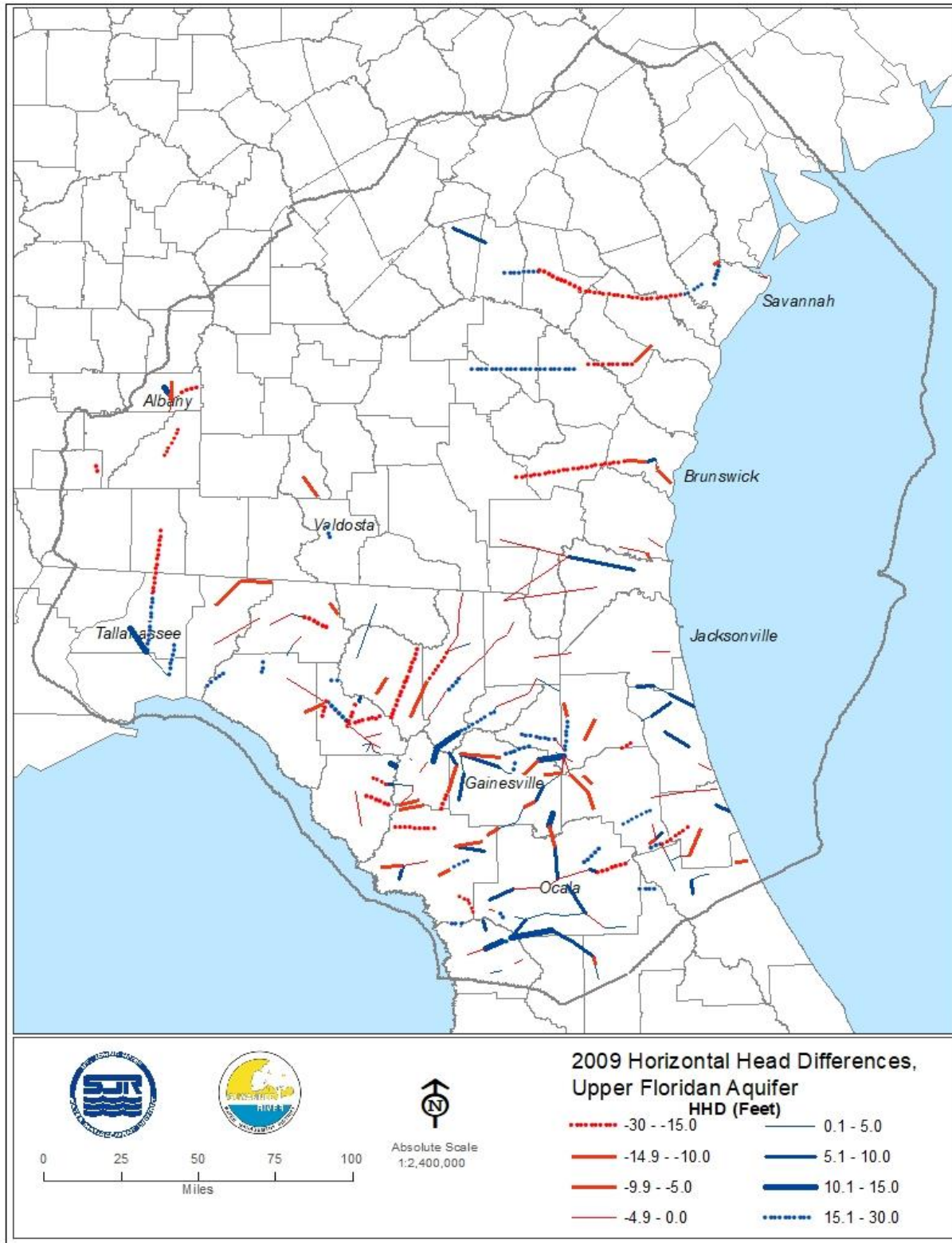


Figure 4-2. Estimated Horizontal Head Difference, Upper Floridan Aquifer, 2009

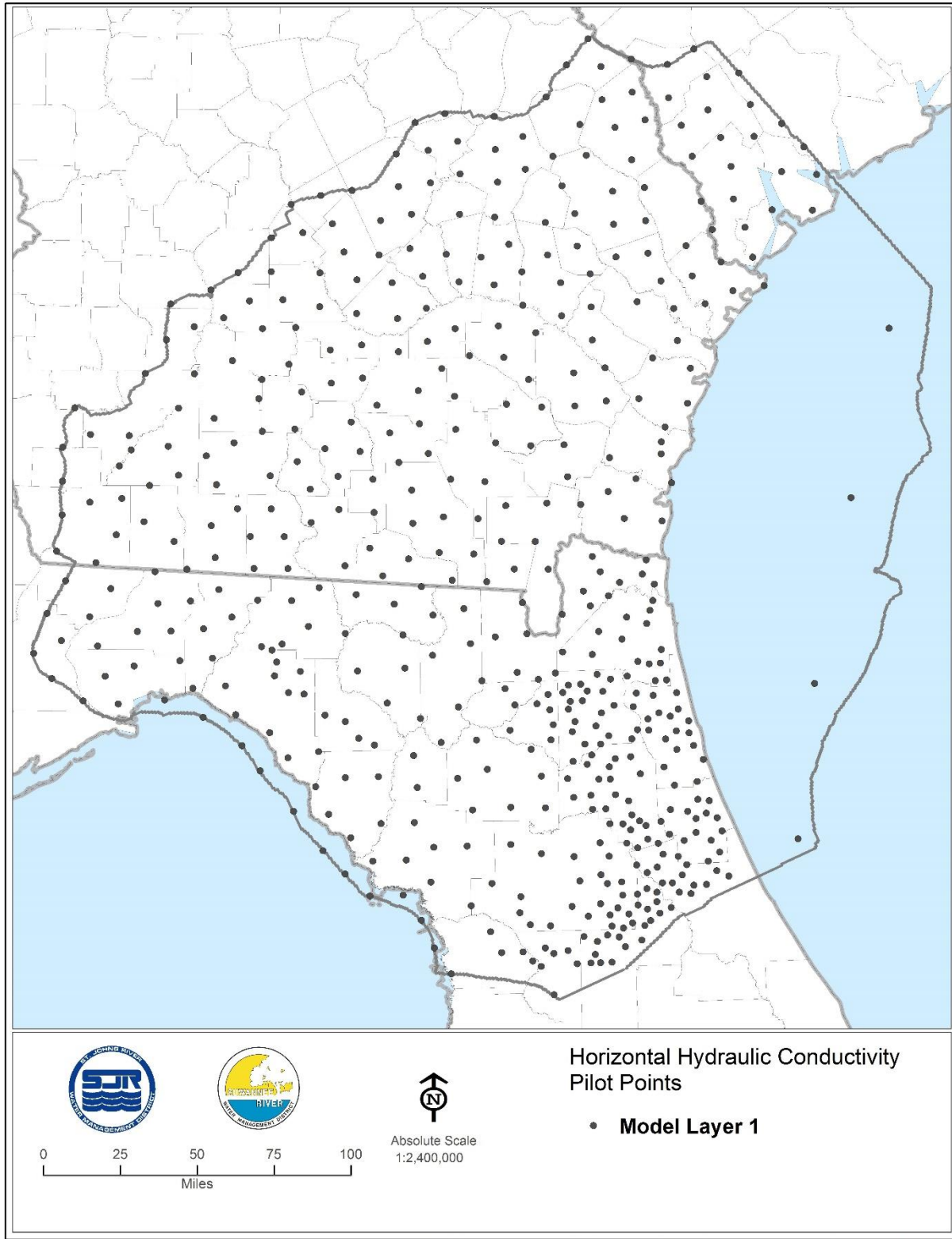


Figure 4-3. Distribution of Horizontal Hydraulic Conductivity Pilot Points, Layer 1

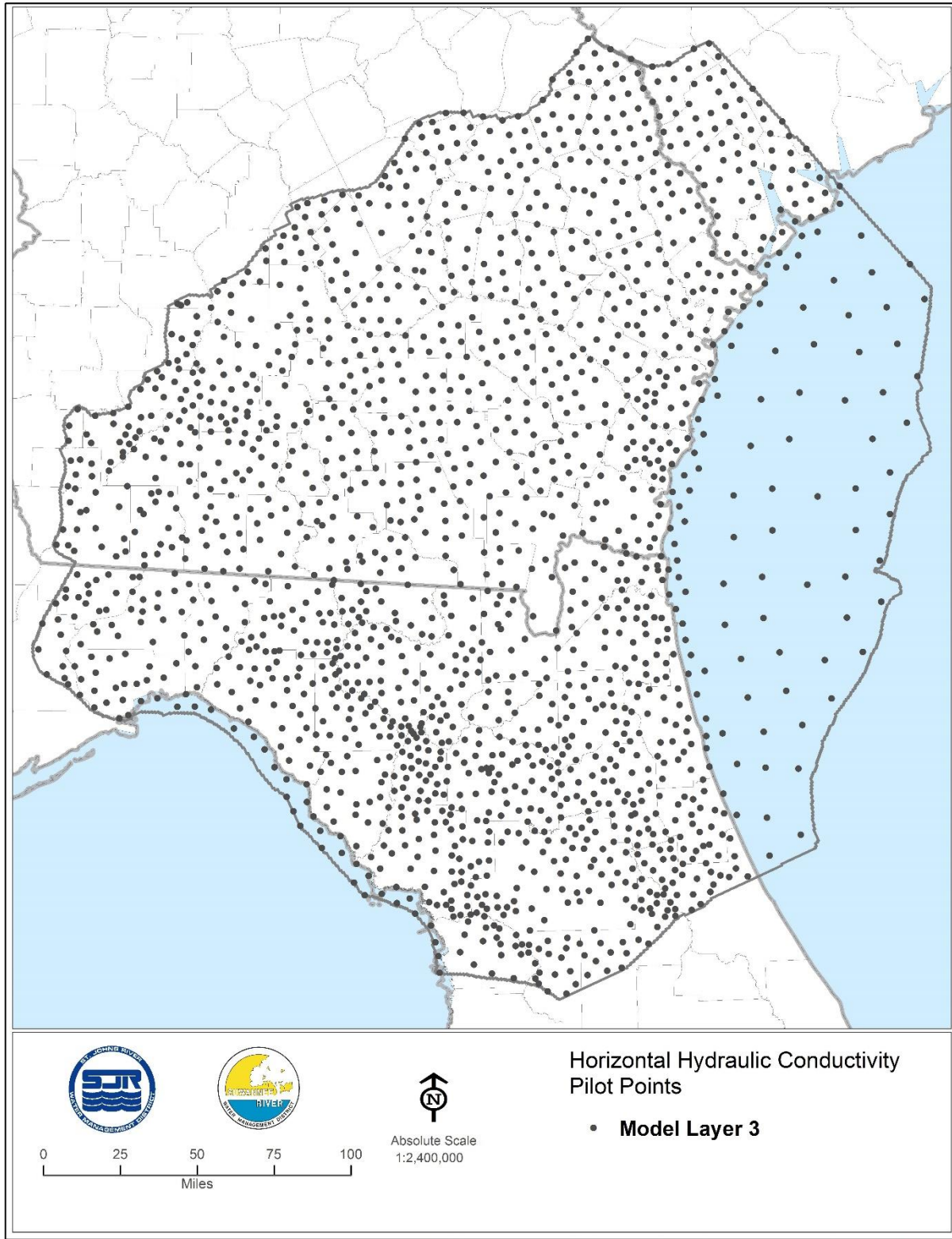


Figure 4-4. Distribution of Horizontal Hydraulic Conductivity Pilot Points, Layer 3

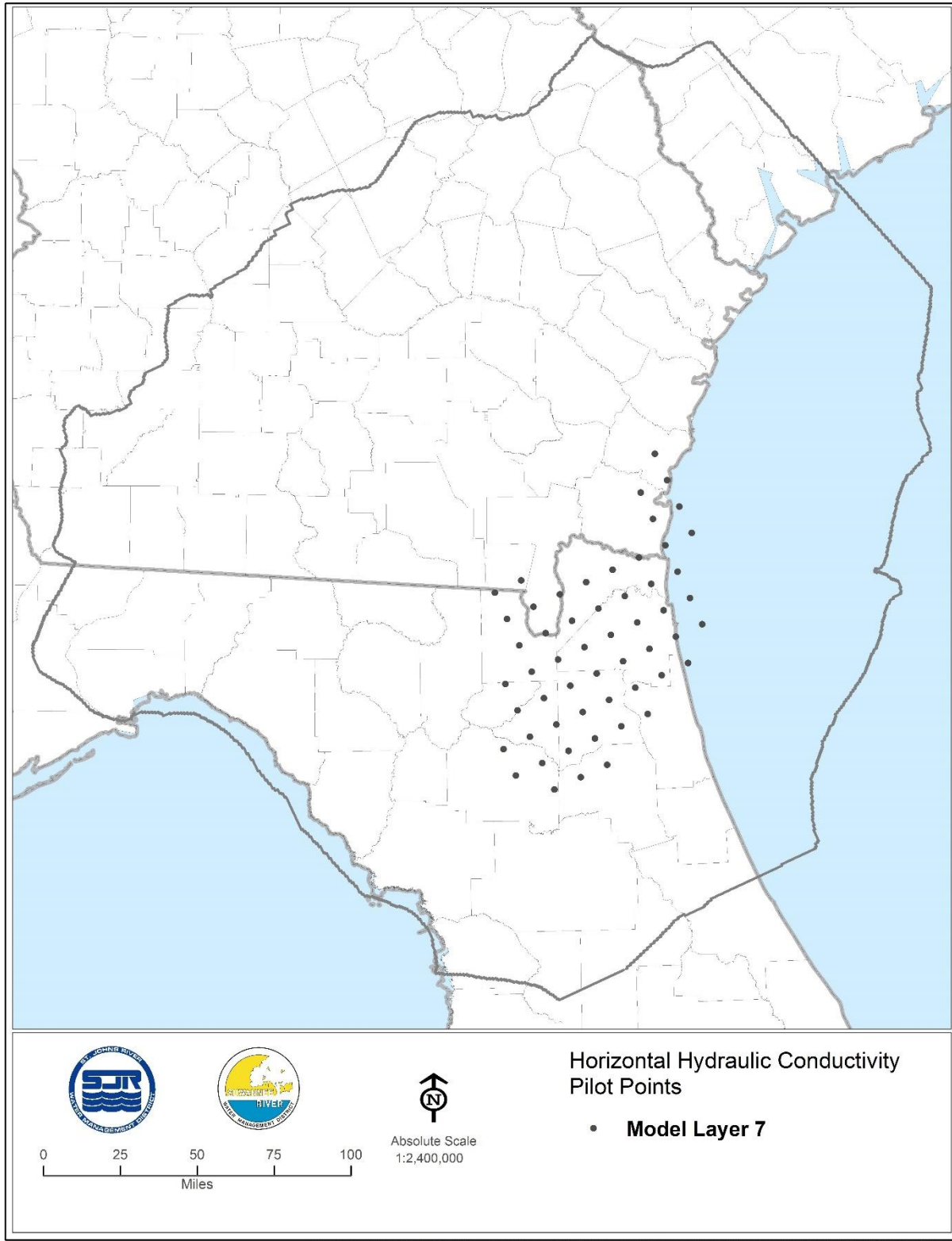


Figure 4-5. Distribution of Horizontal Hydraulic Conductivity Pilot Points, Layer 7

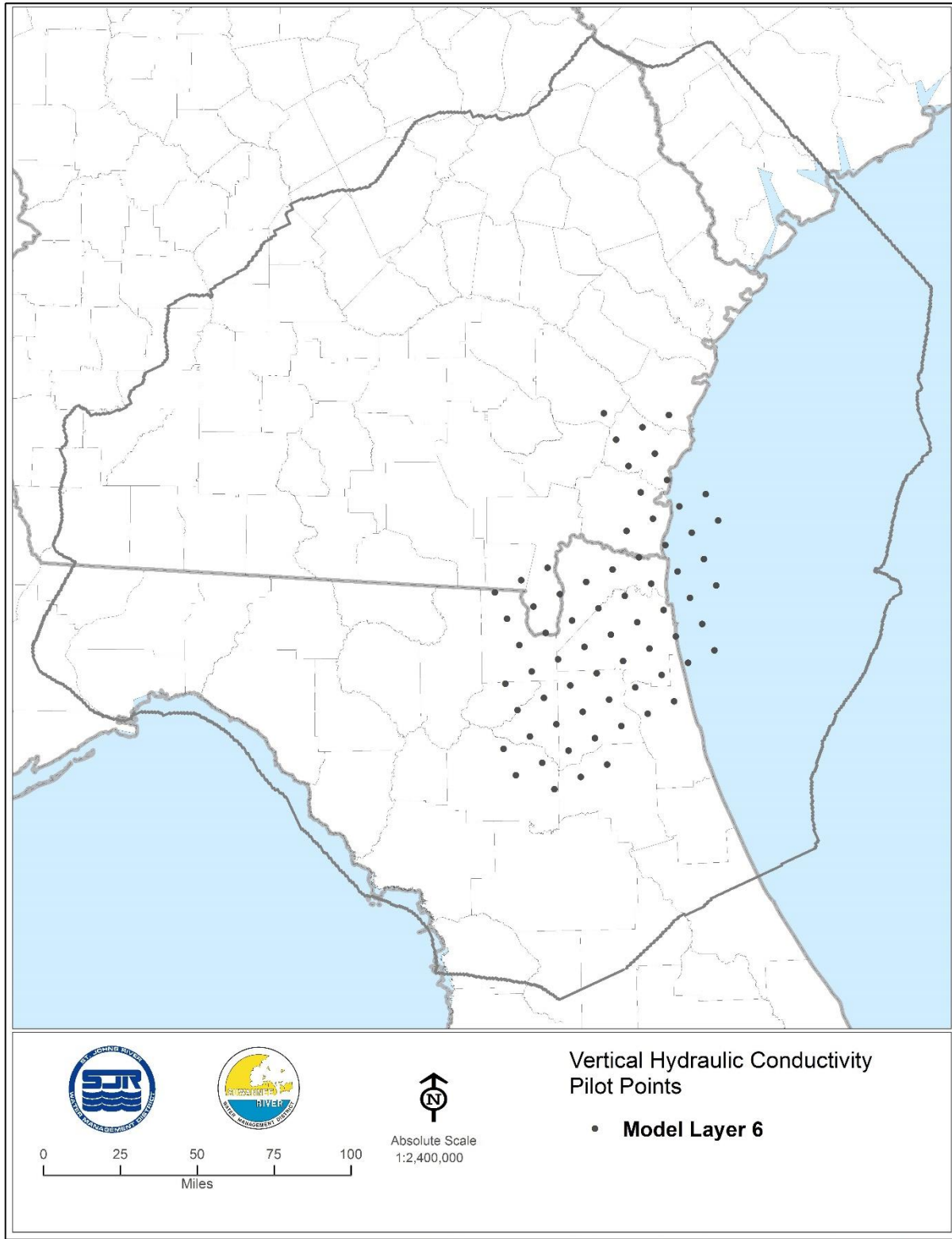


Figure 4-6. Distribution of Vertical Hydraulic Conductivity Pilot Points, Layer 6

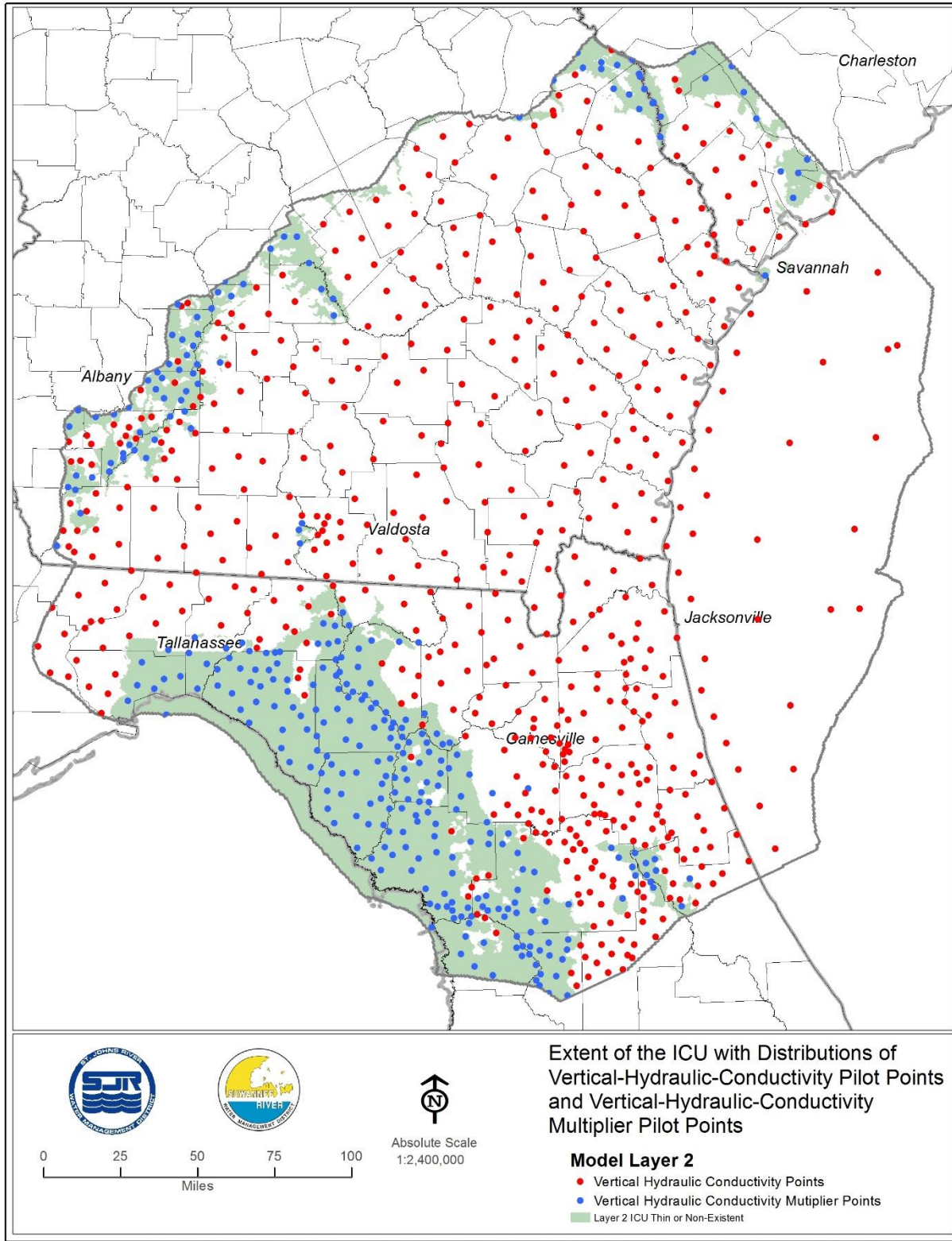


Figure 4-7. Distribution of Vertical Hydraulic Conductivity Pilot Points and Vertical Hydraulic Conductivity Multiplier Pilot Points, Model Layer 2

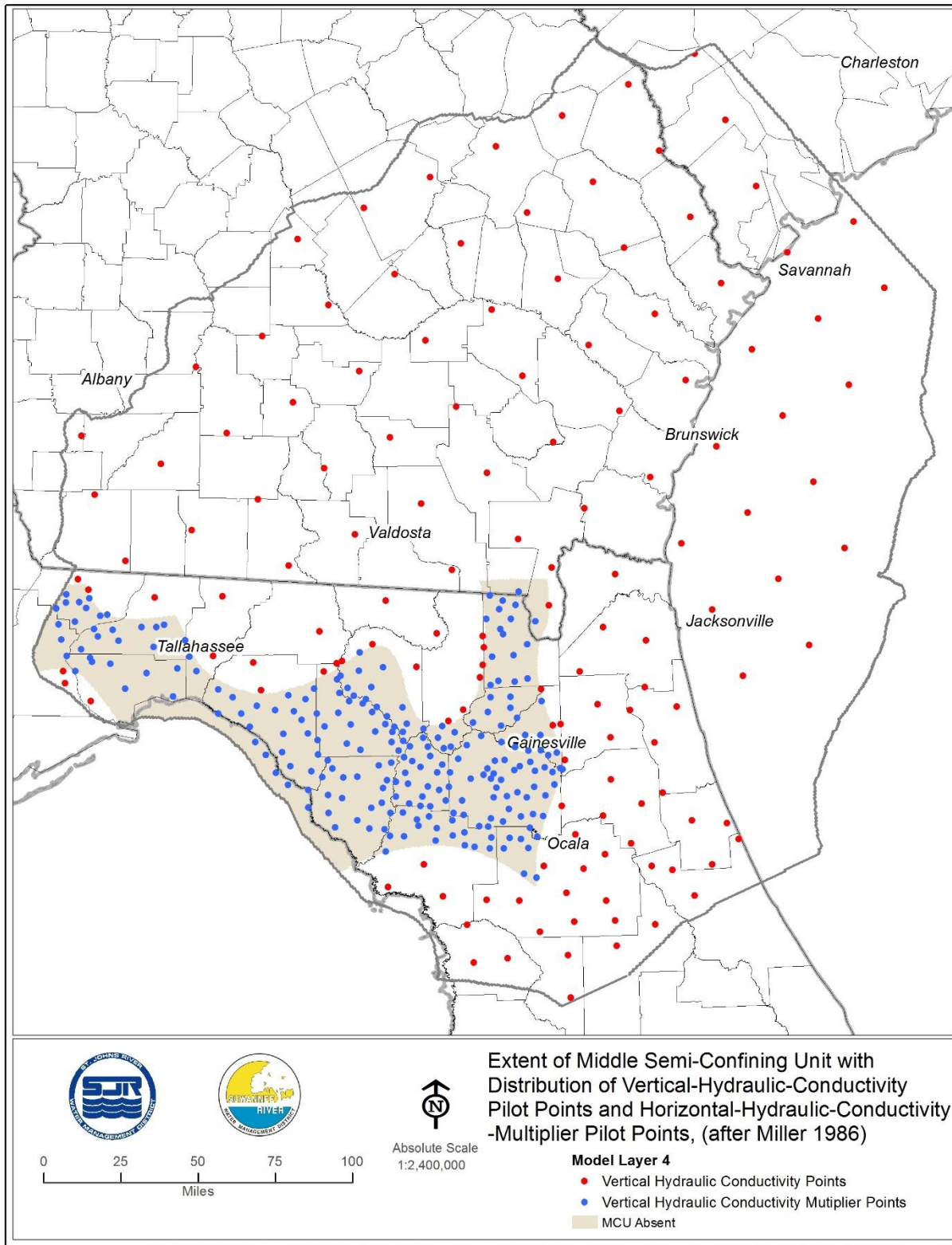


Figure 4-8. Distribution of Vertical Hydraulic Conductivity Pilot Points and Vertical Hydraulic Conductivity Multiplier Pilot Points, Model Layer 4

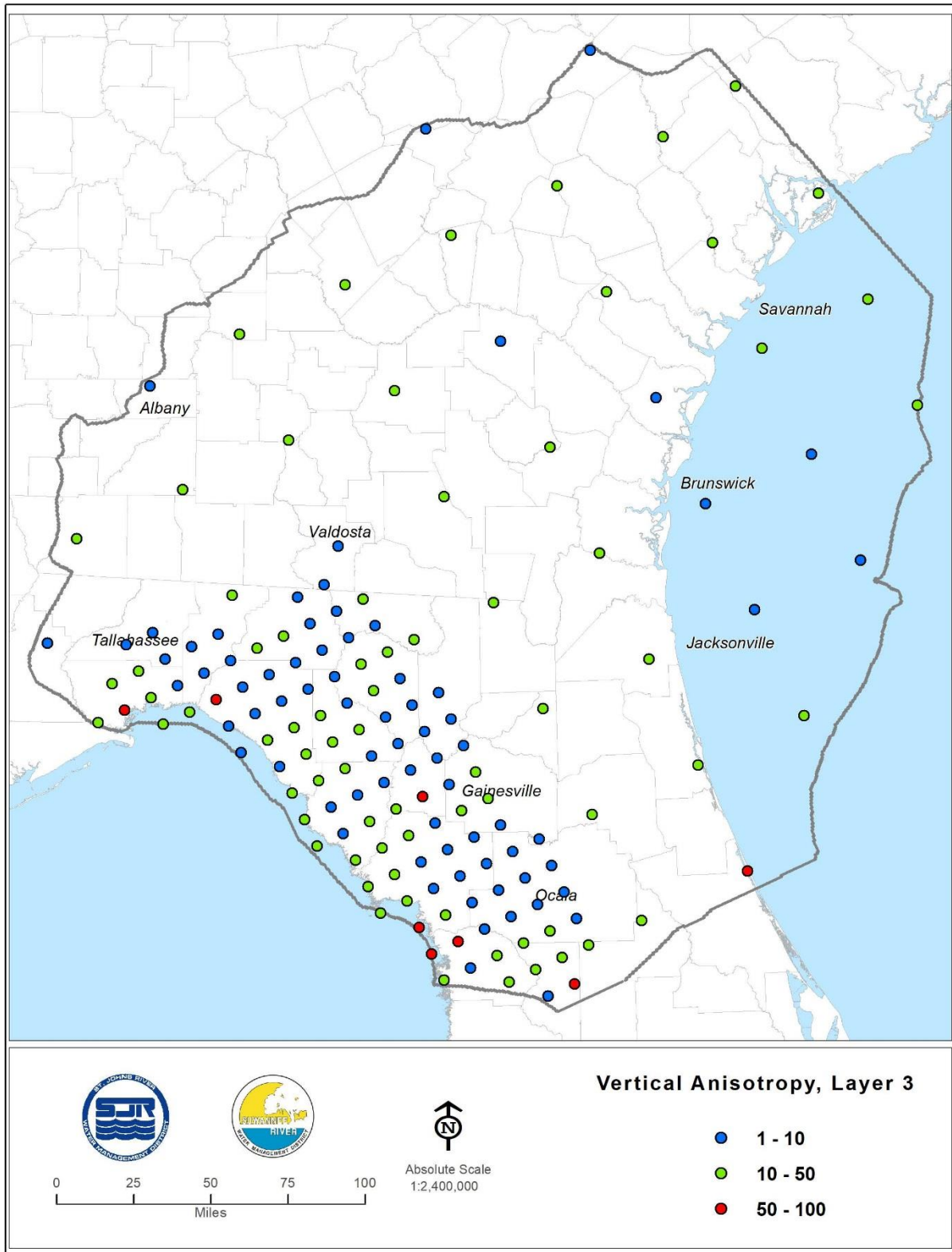


Figure 4-10. Distribution of Anisotropy Pilot Points, Model Layer 3

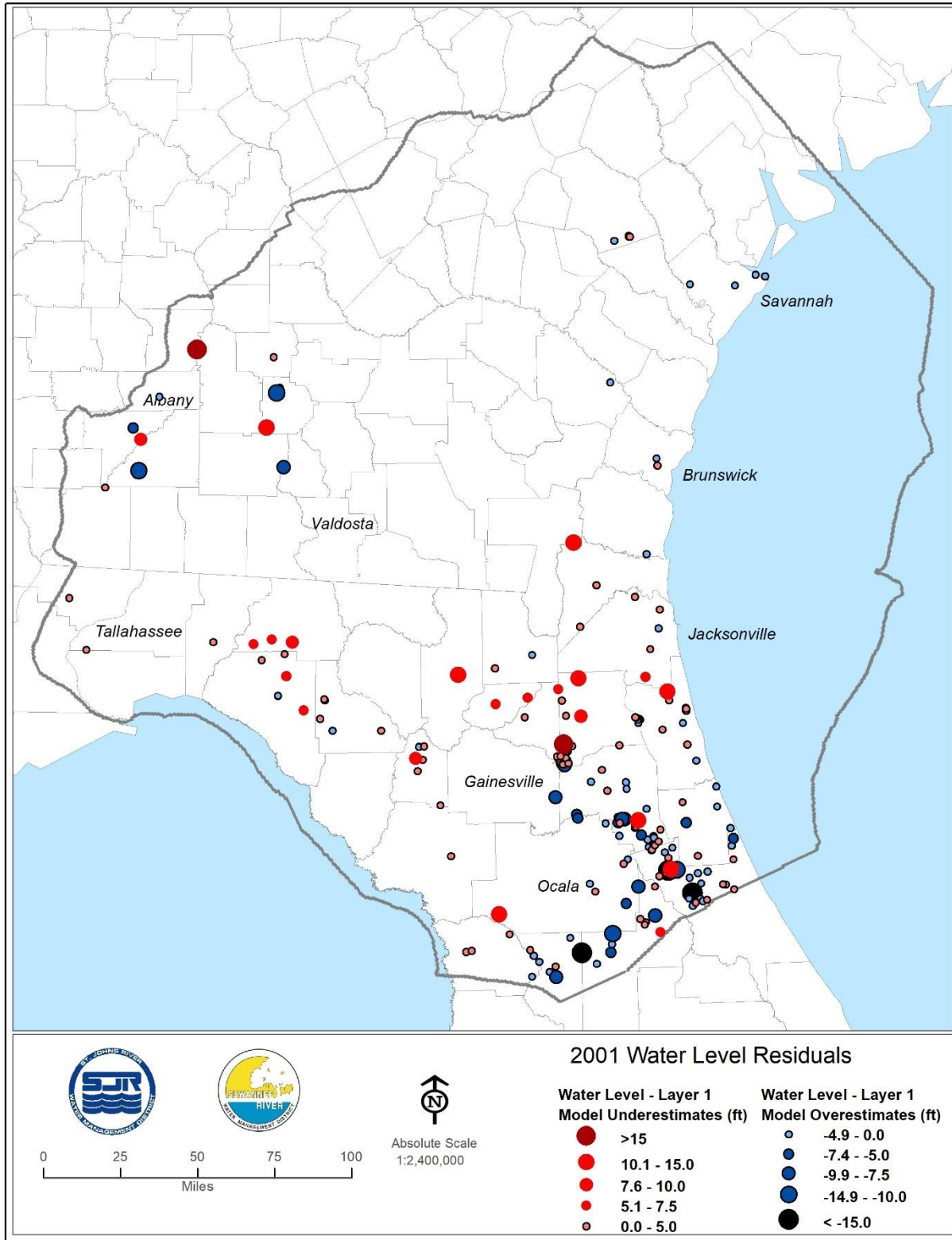


Figure 4-11. Residuals of Hydraulic Head (Feet), Model Layer 1, 2001

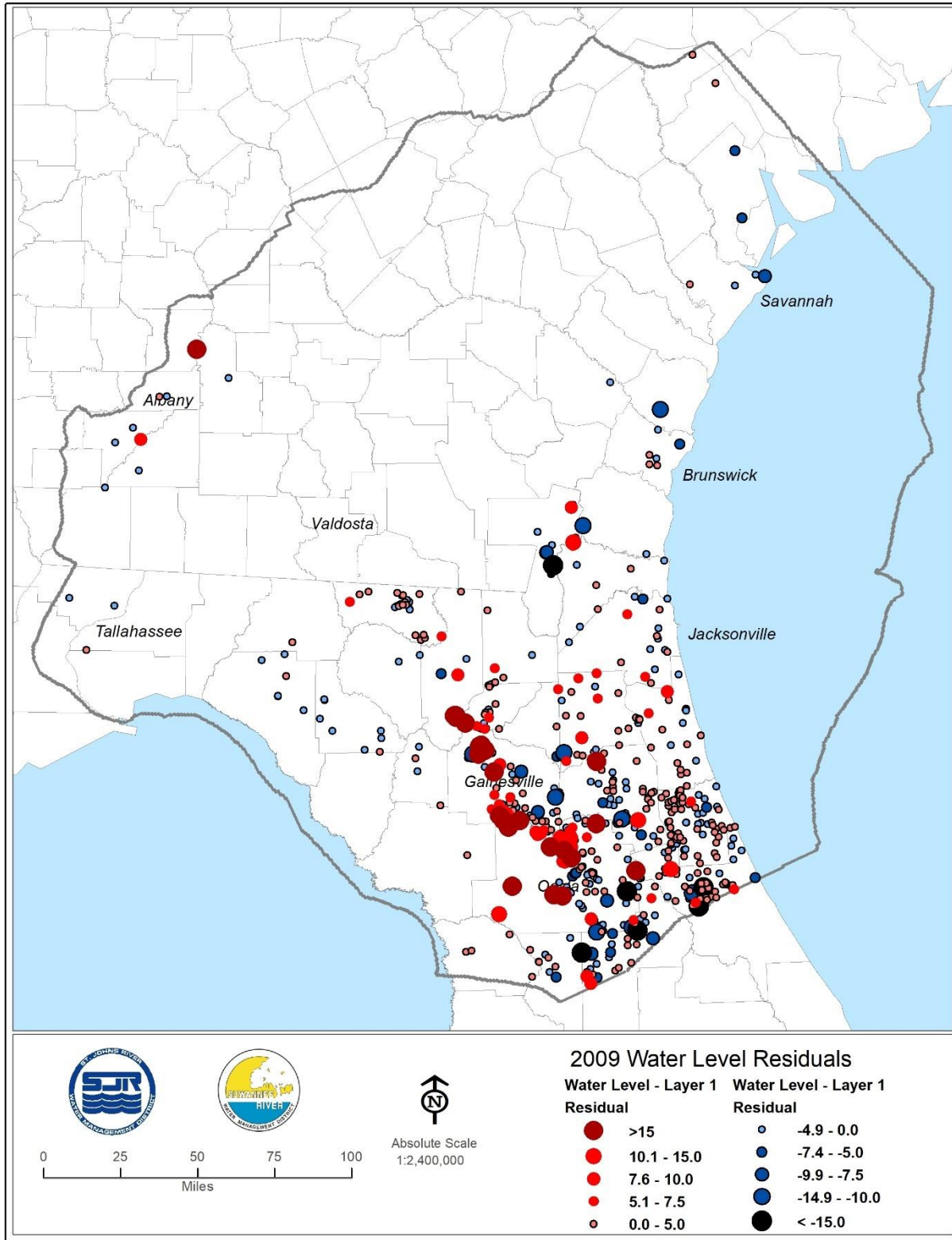


Figure 4-12. Residuals of Hydraulic Head (Feet), Model Layer 1, 2009

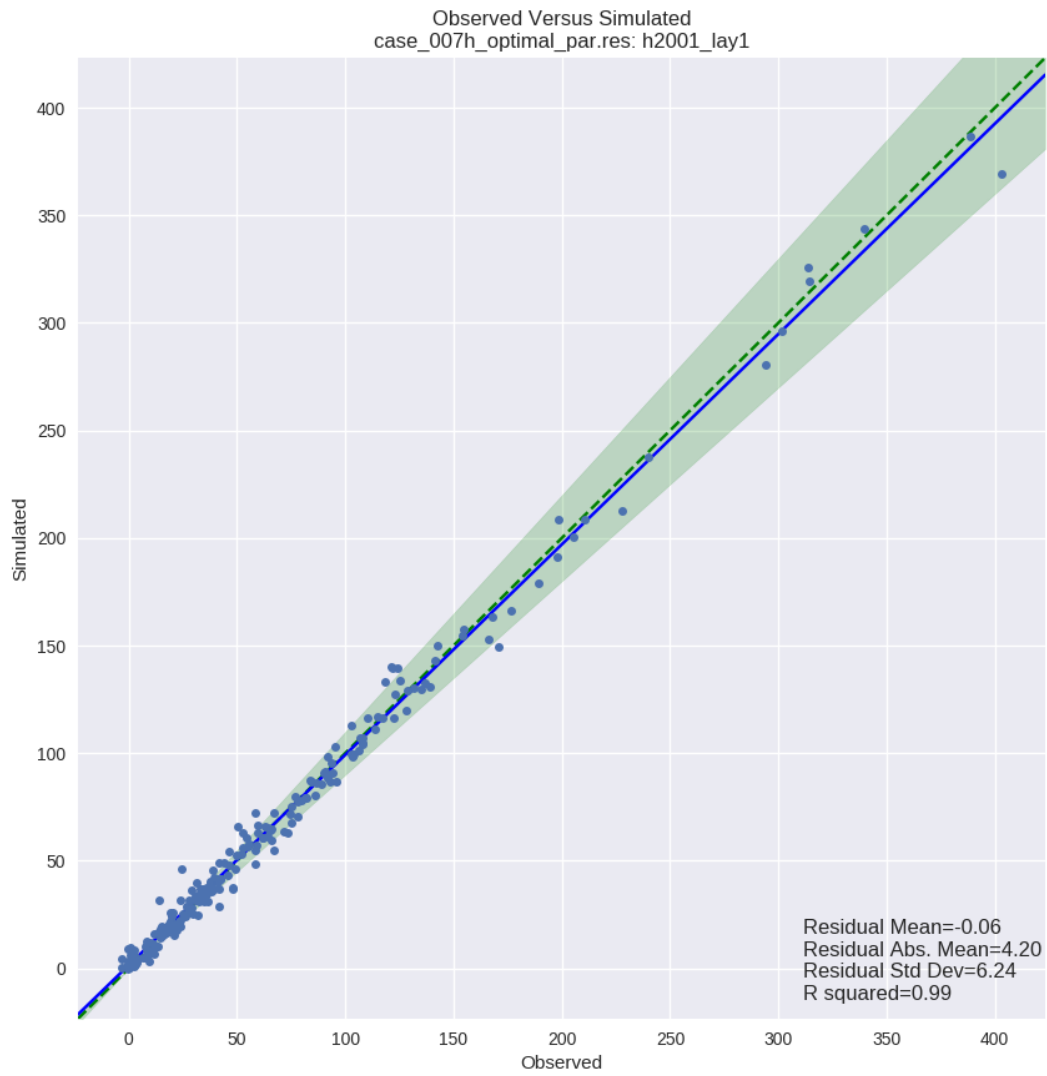


Figure 4-13. Observed Hydraulic Head (Feet NAVD88), Model Layer 1, 2001

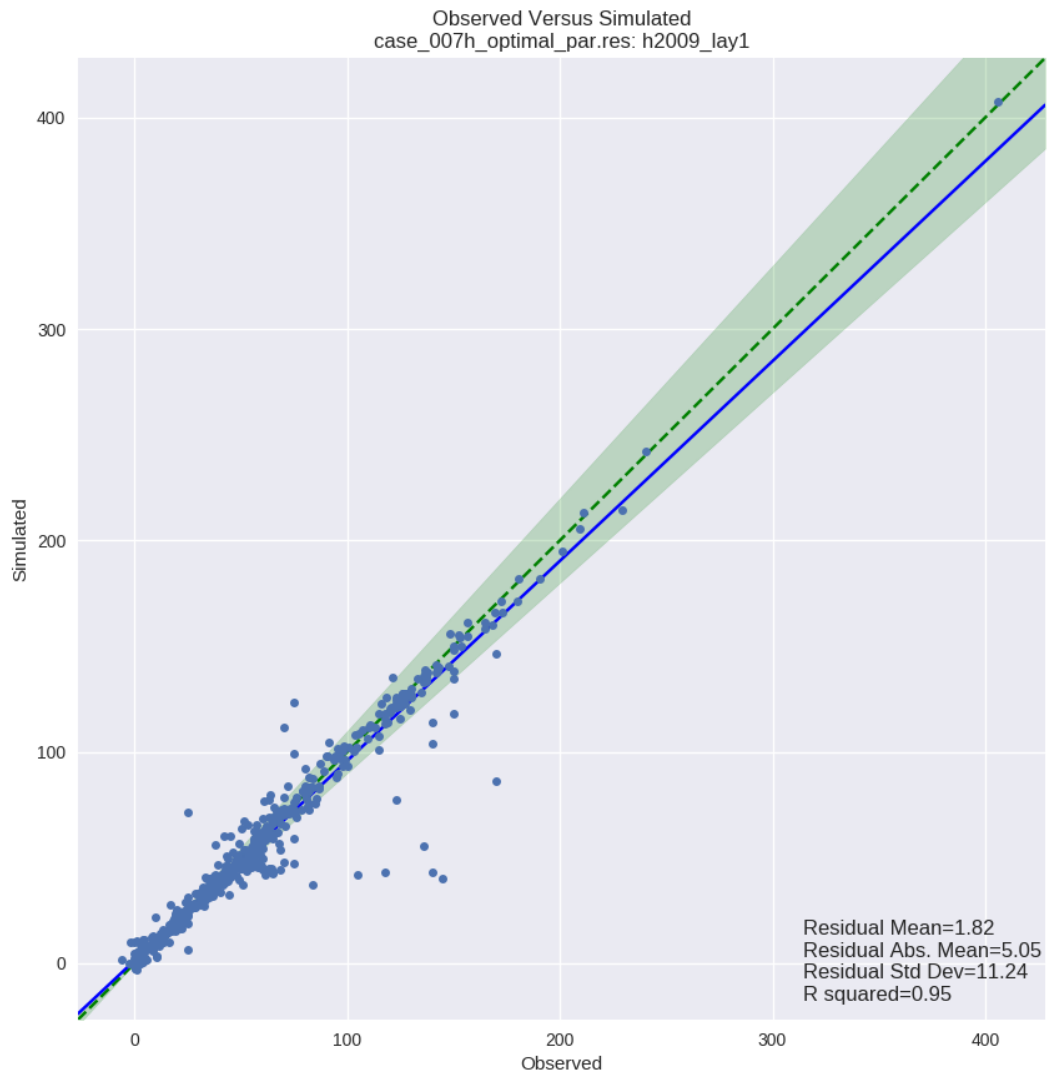


Figure 4-14. Observed versus Simulated Hydraulic Head (Feet NAVD88), Model Layer 1, 2009

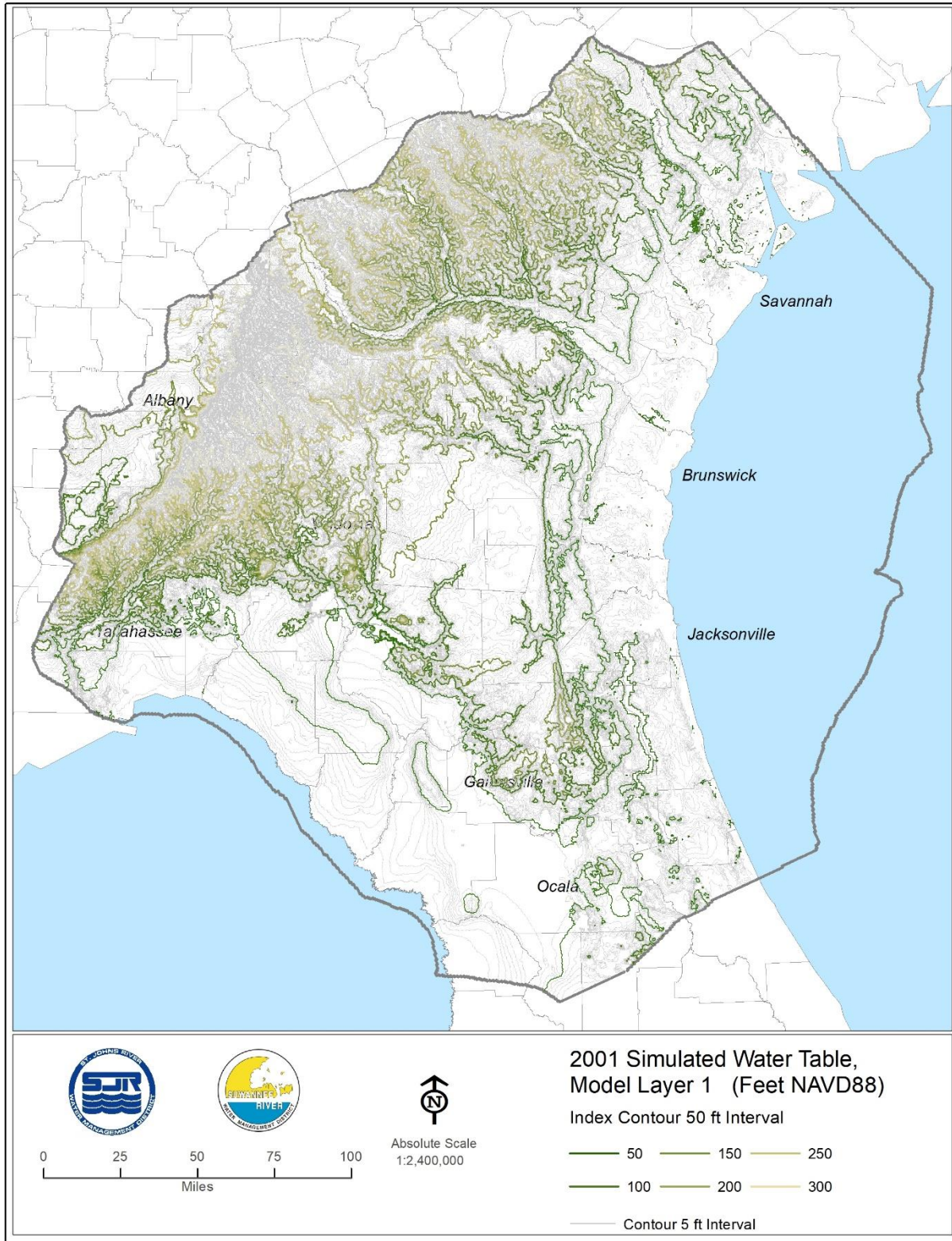


Figure 4-15. Simulated Water Table of Model Layer 1 (Feet NAVD88), 2001

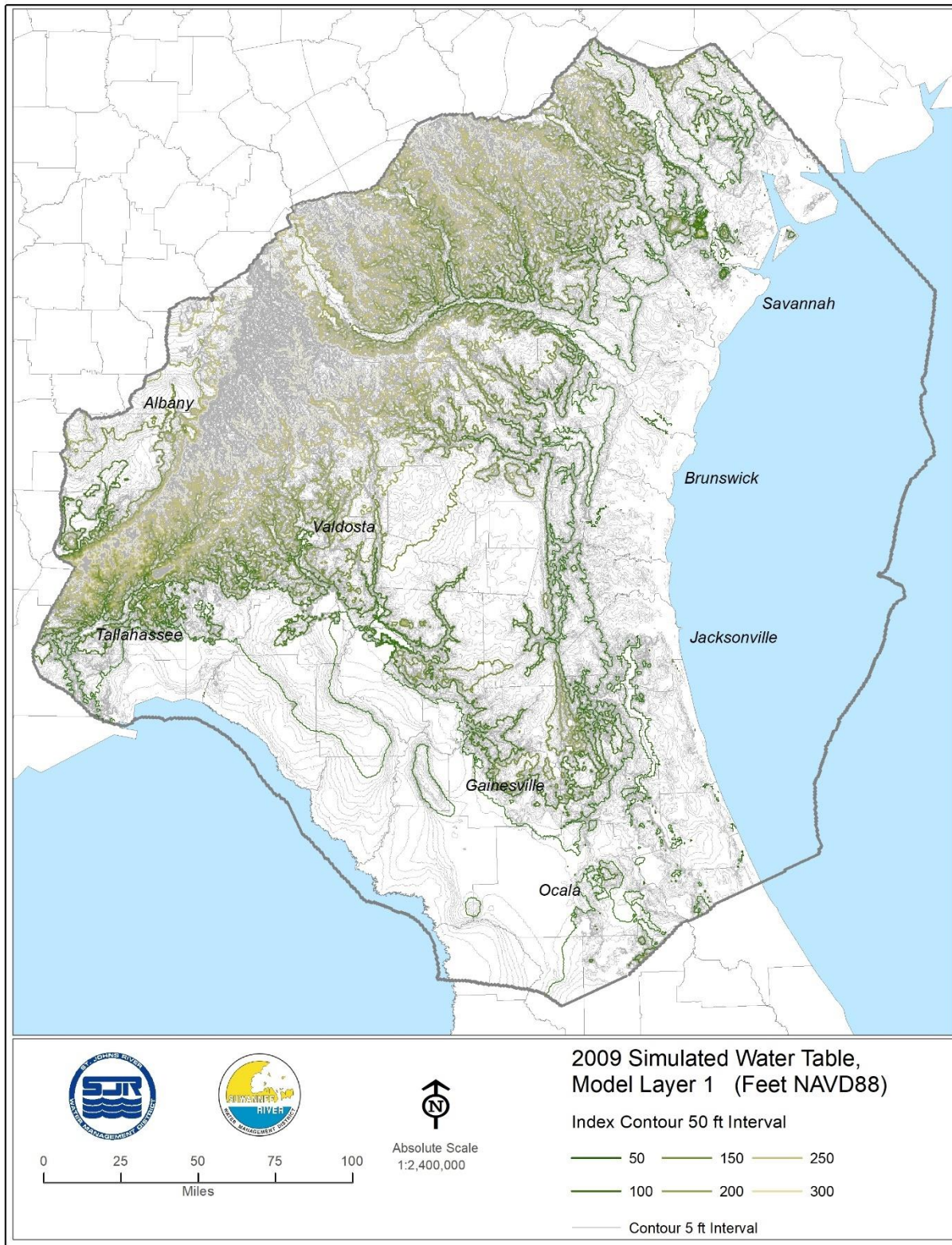


Figure 4-16. Simulated Water Table of Model Layer 1 (Feet NAVD88), 2009

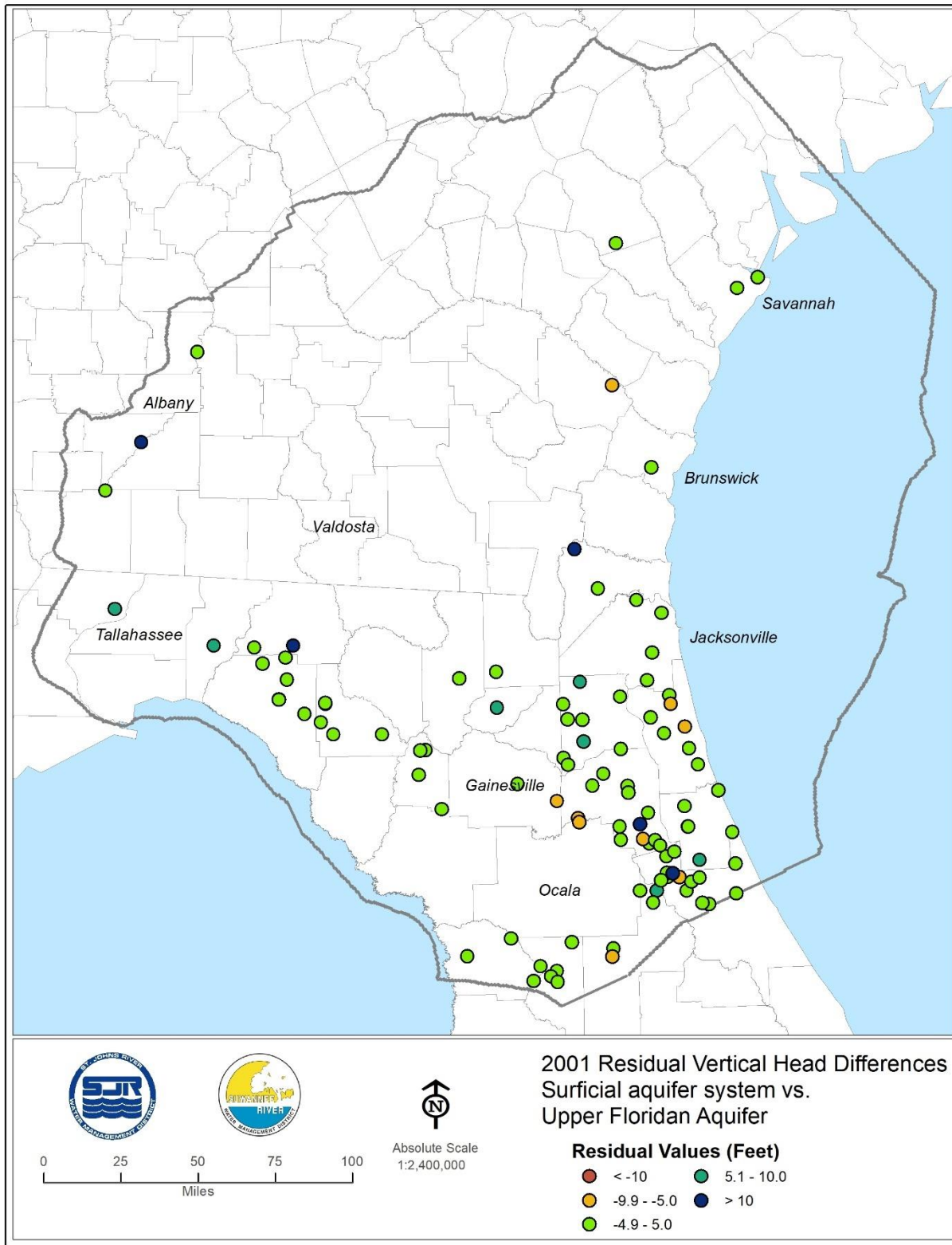


Figure 4-17. Residuals of Vertical Head Differences (Feet), Model Layers 1 and 3, 2001

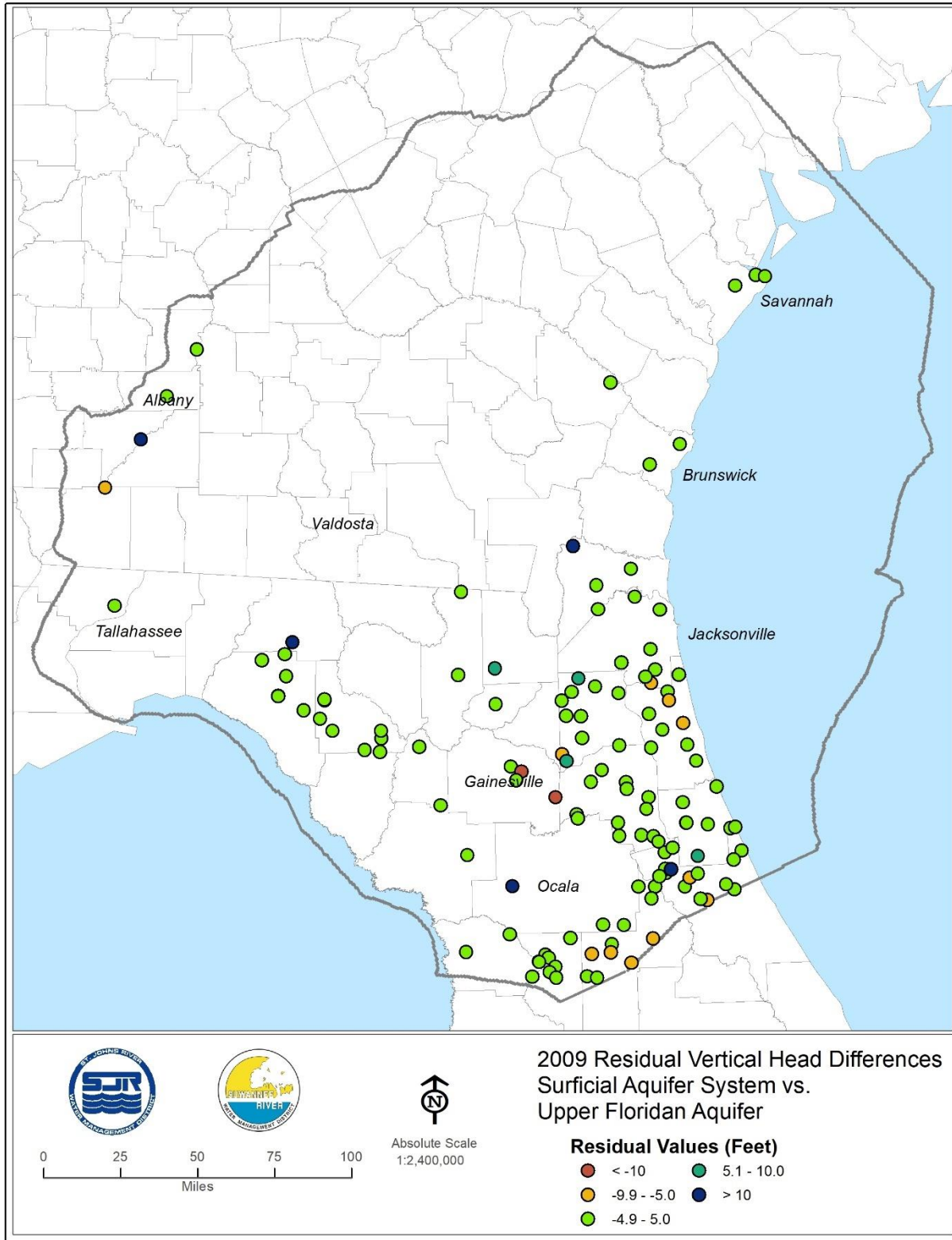


Figure 4-18. Residuals of Vertical Head Differences (Feet), Model Layers 1 and 3, 2009

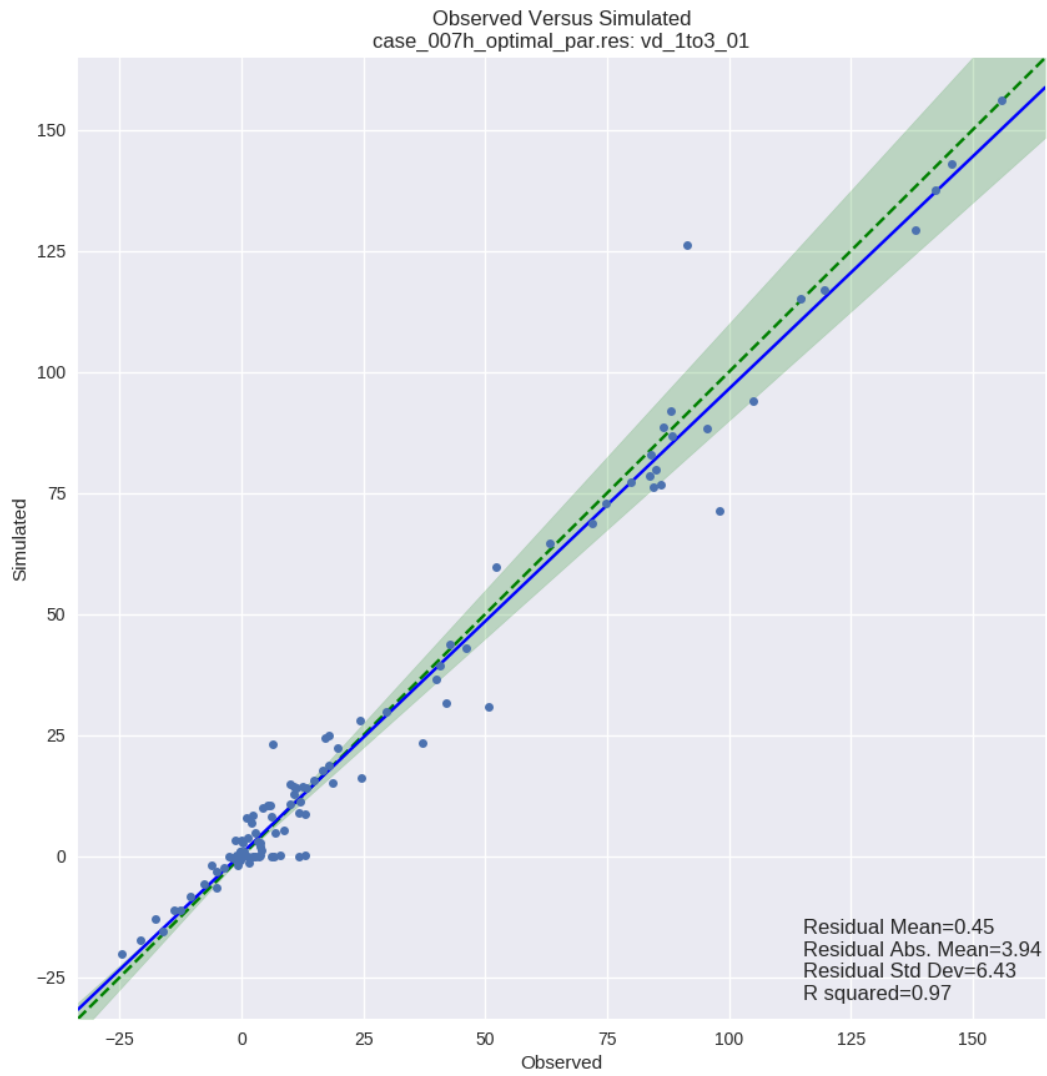


Figure 4-19. Observed versus Simulated Vertical Head Differences (Feet), Model Layers 1 and 3, 2001

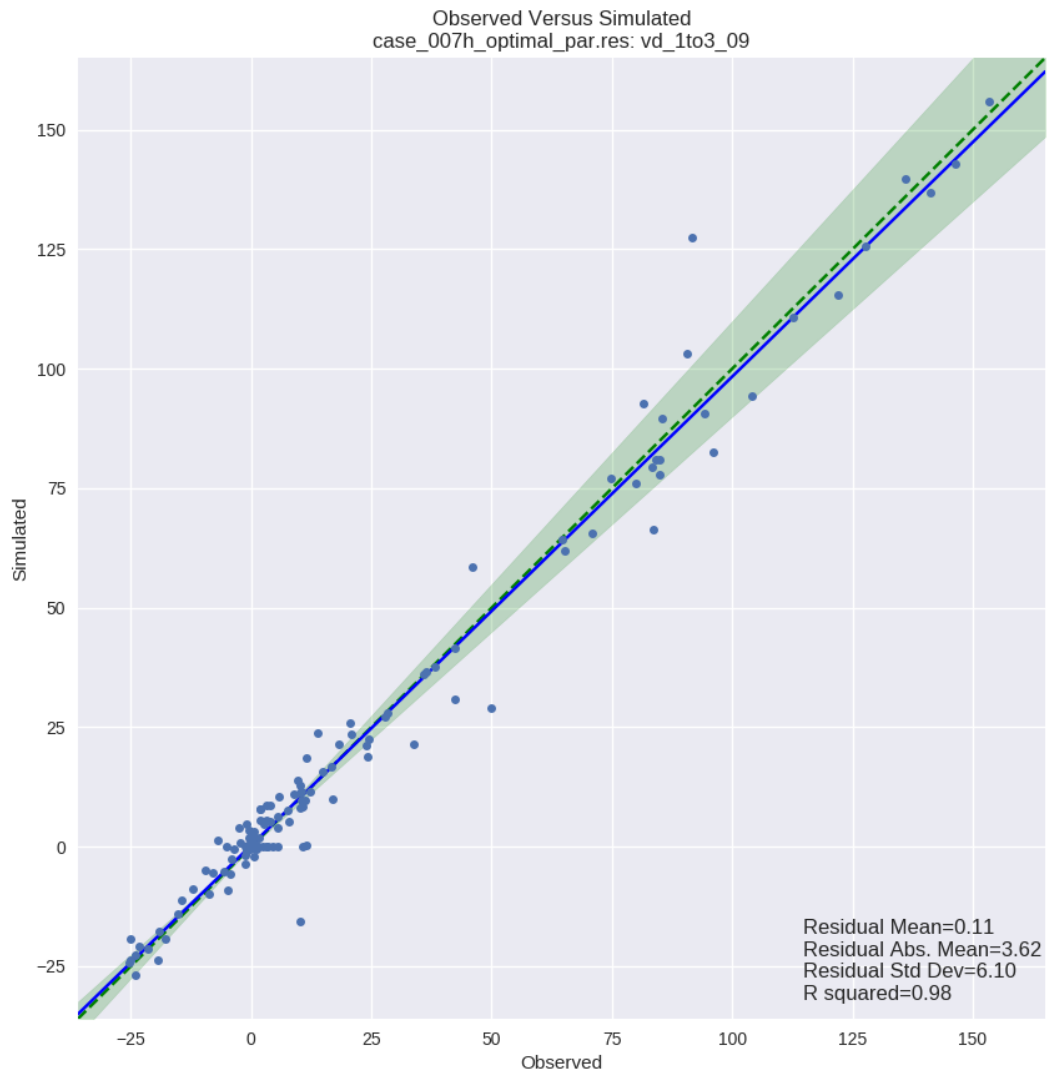


Figure 4-20. Observed versus Simulated Vertical Head Differences (Feet), Model Layers 1 and 3, 2009

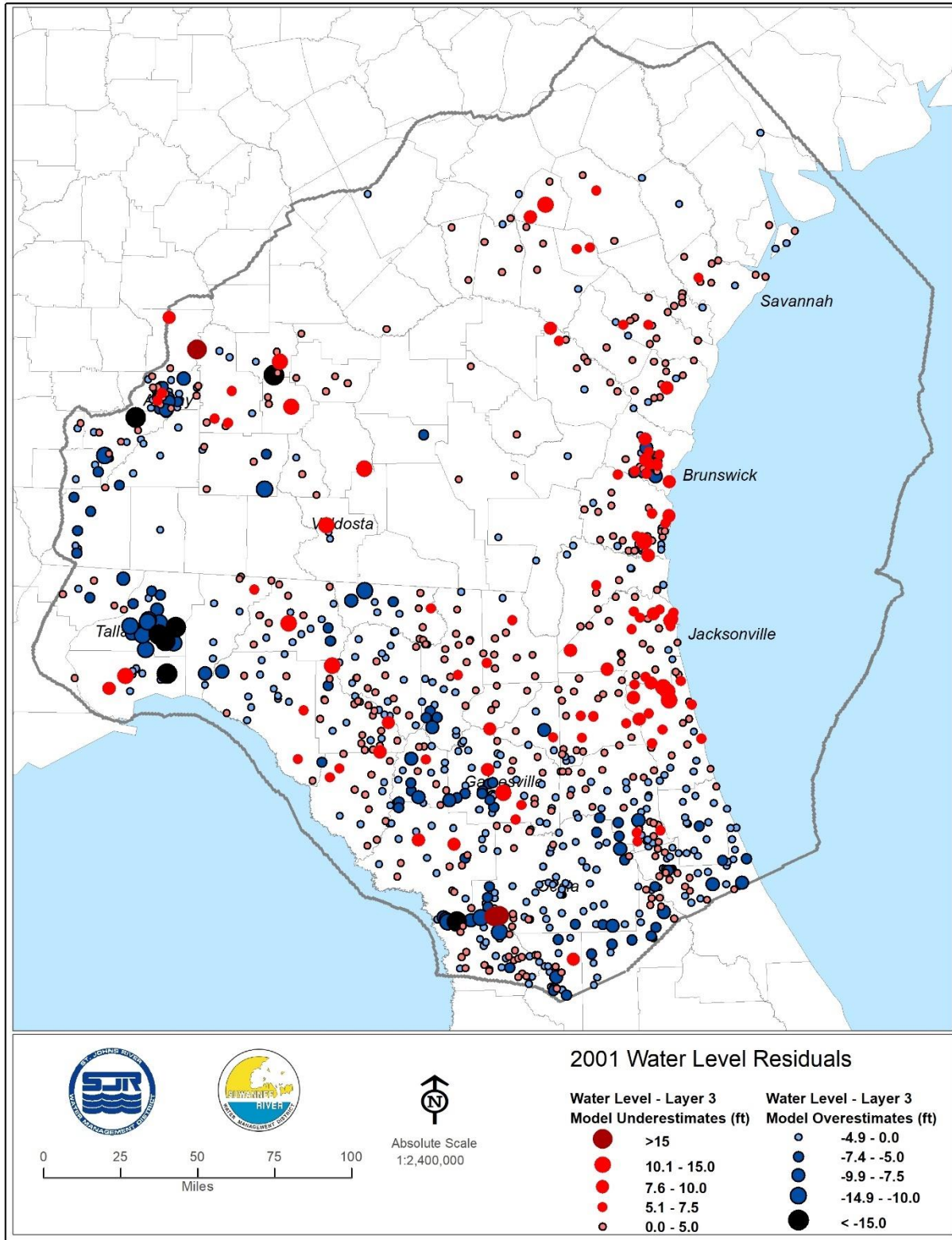


Figure 4-21. Residuals of Hydraulic Head (Feet), Model Layer 3, 2001

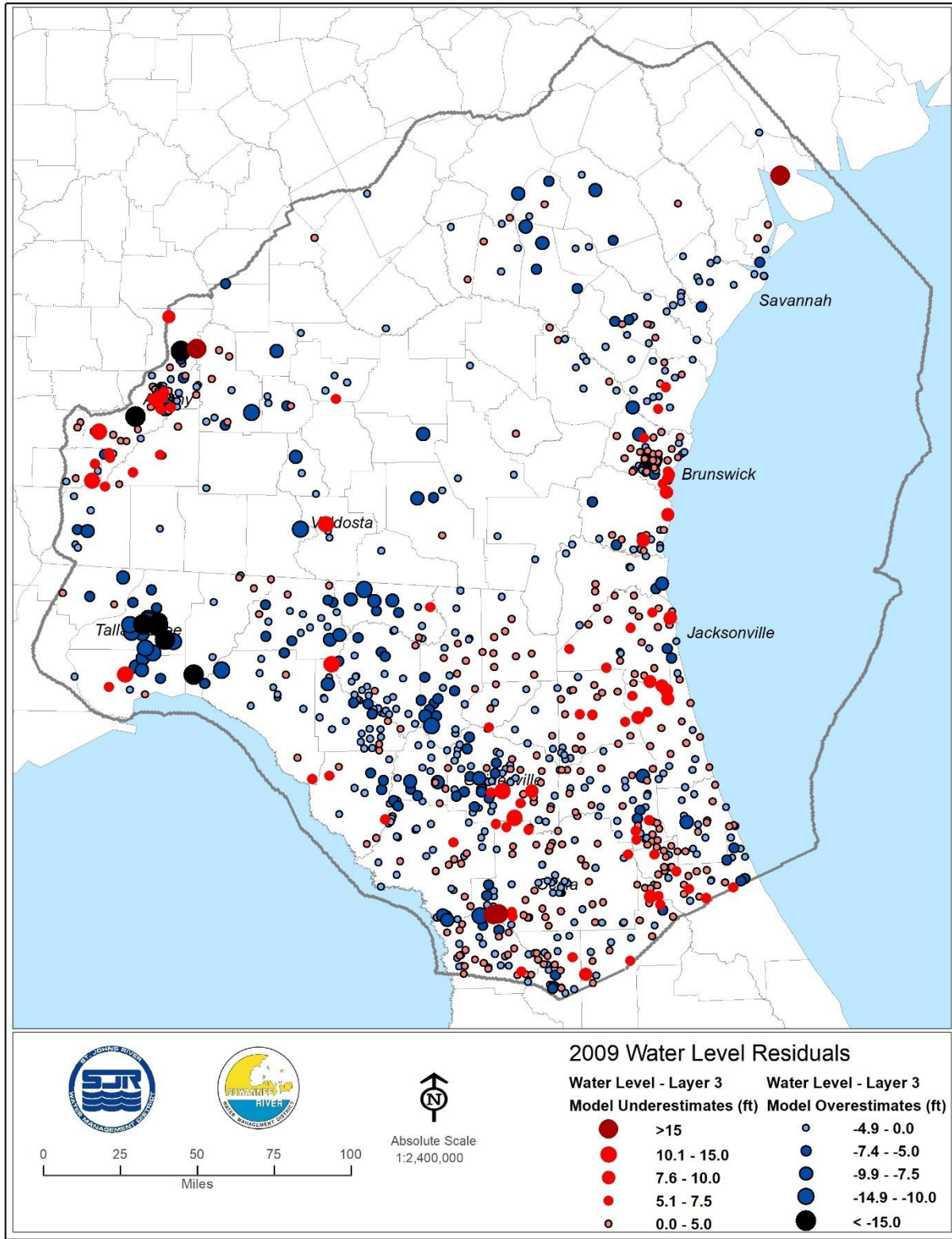


Figure 4-22. Residuals of Hydraulic Head (Feet), Model Layer 3, 2009

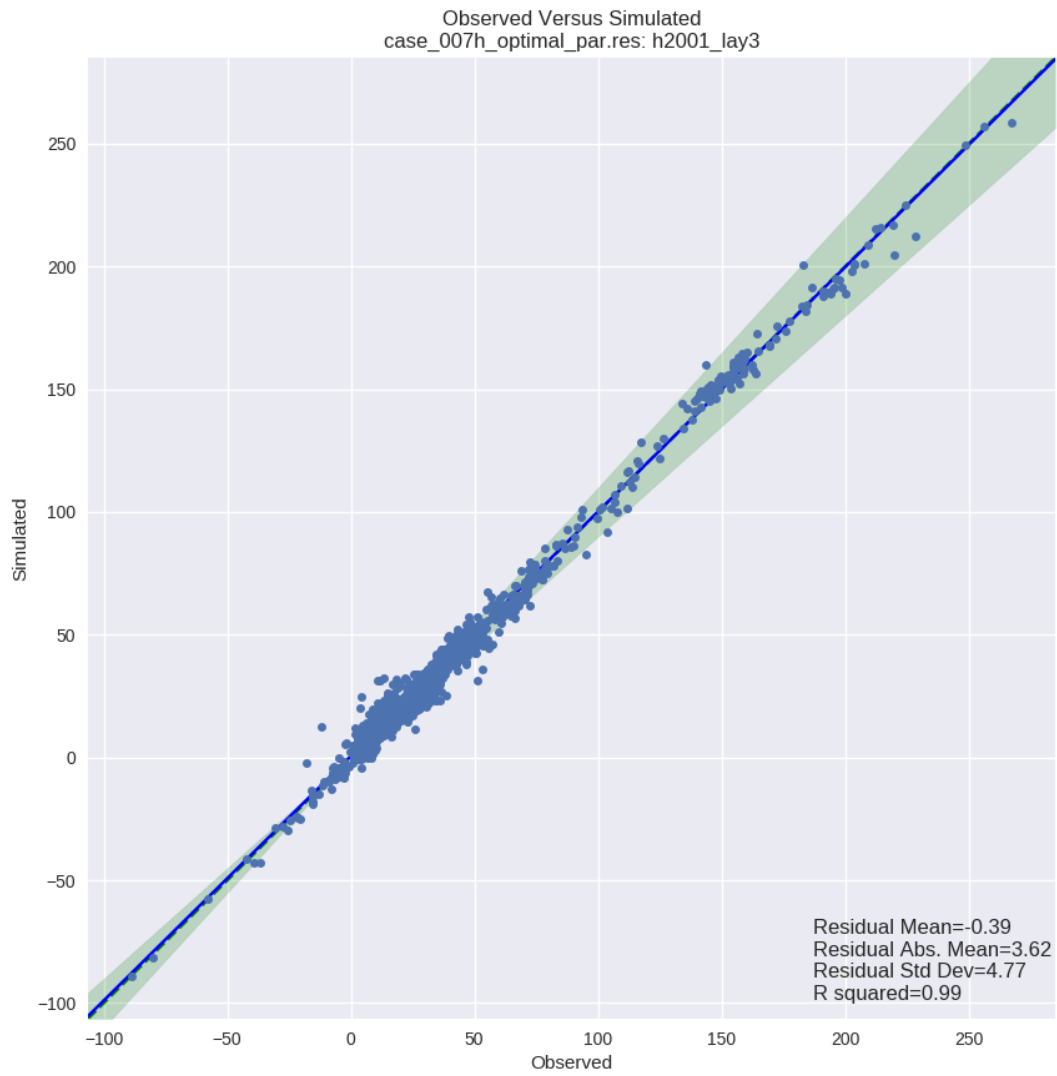


Figure 4-23. Observed versus Simulated Hydraulic Head (Feet NAVD88), Model Layer 3, 2001

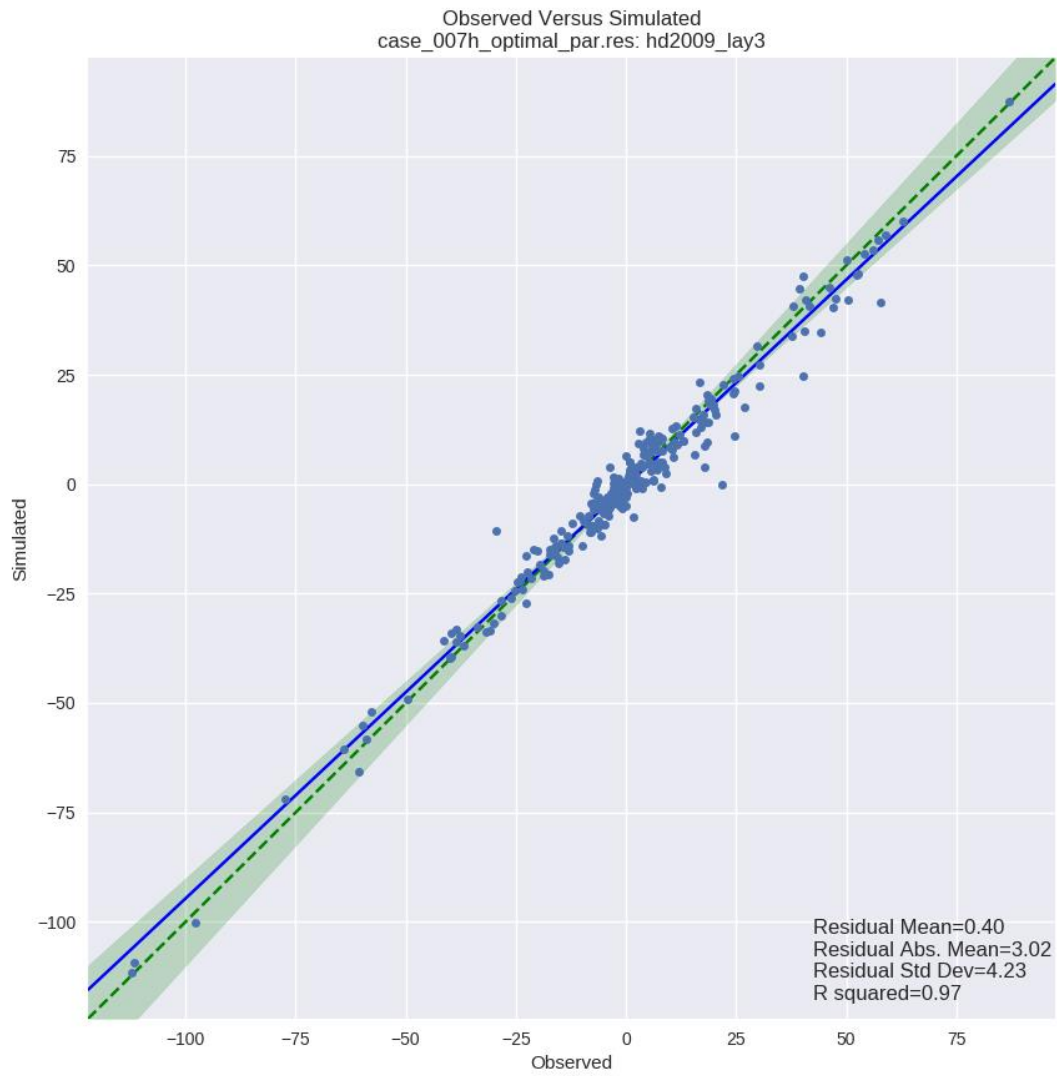


Figure 4-24. Observed versus Simulated Hydraulic Head (Feet NAVD88), Model Layer 3, 2009

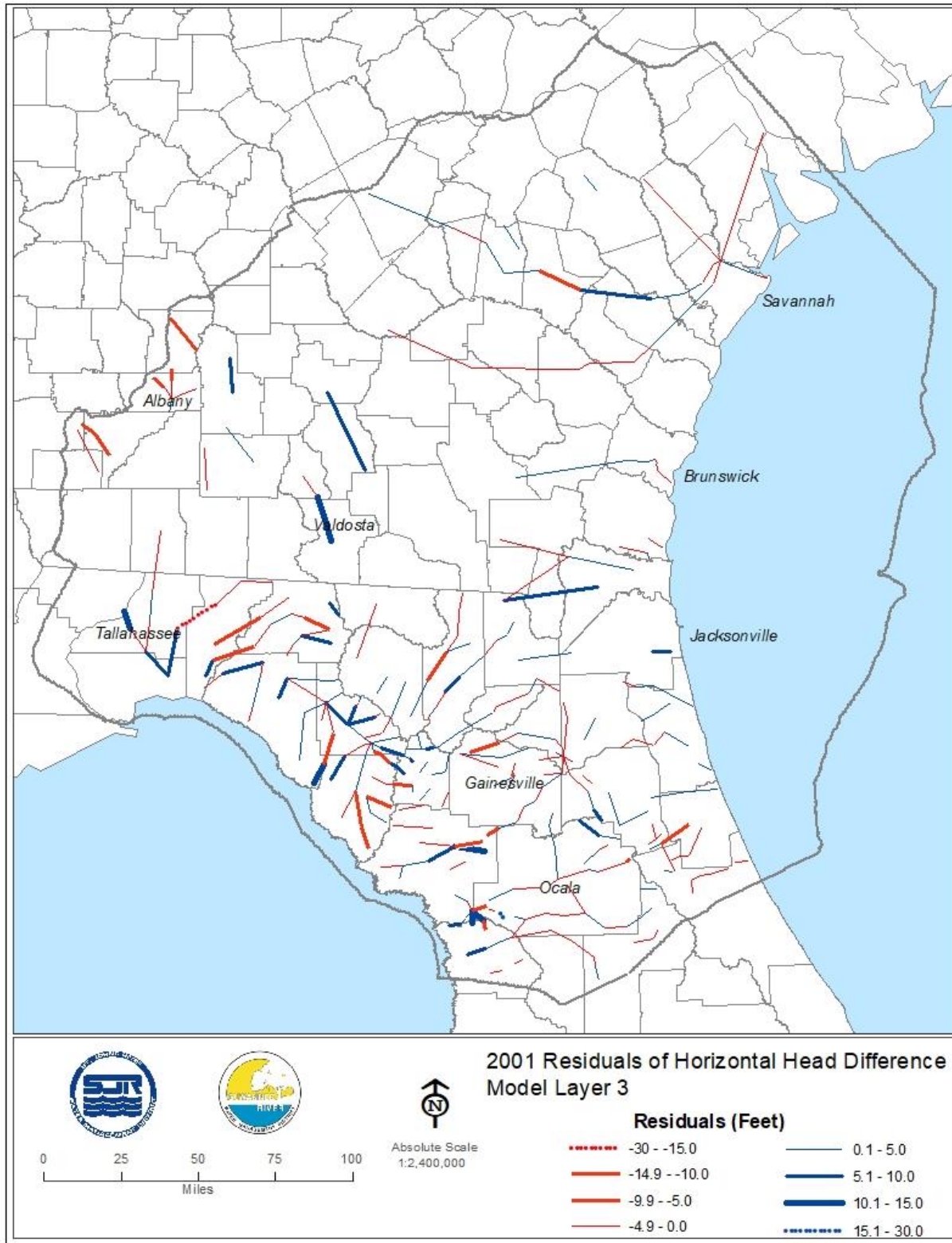


Figure 4-25. Residuals of Horizontal Head Differences (Feet), Model Layer 3, 2001

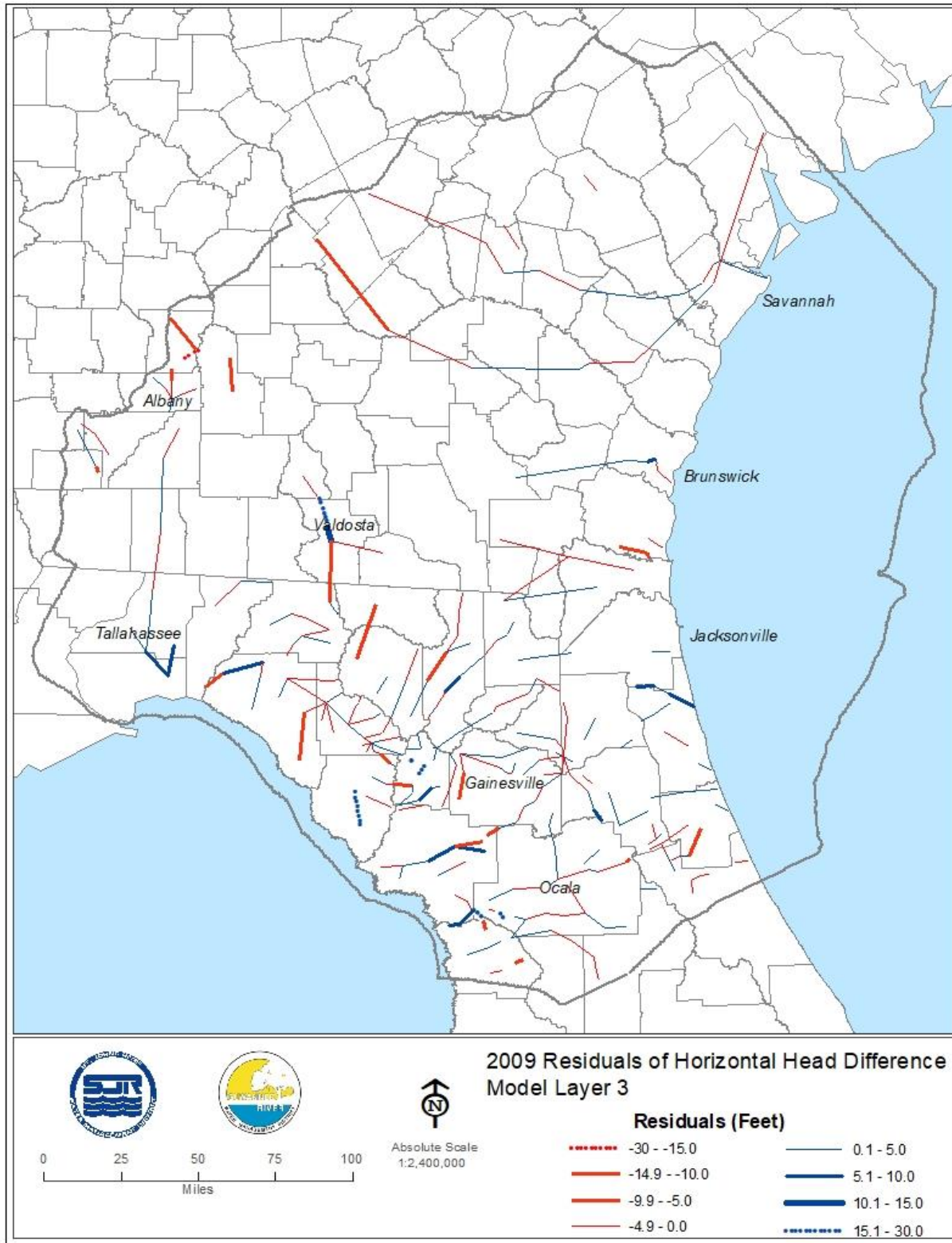


Figure 4-26. Residuals of Horizontal Head Differences (Feet), Model Layer 3, 2009

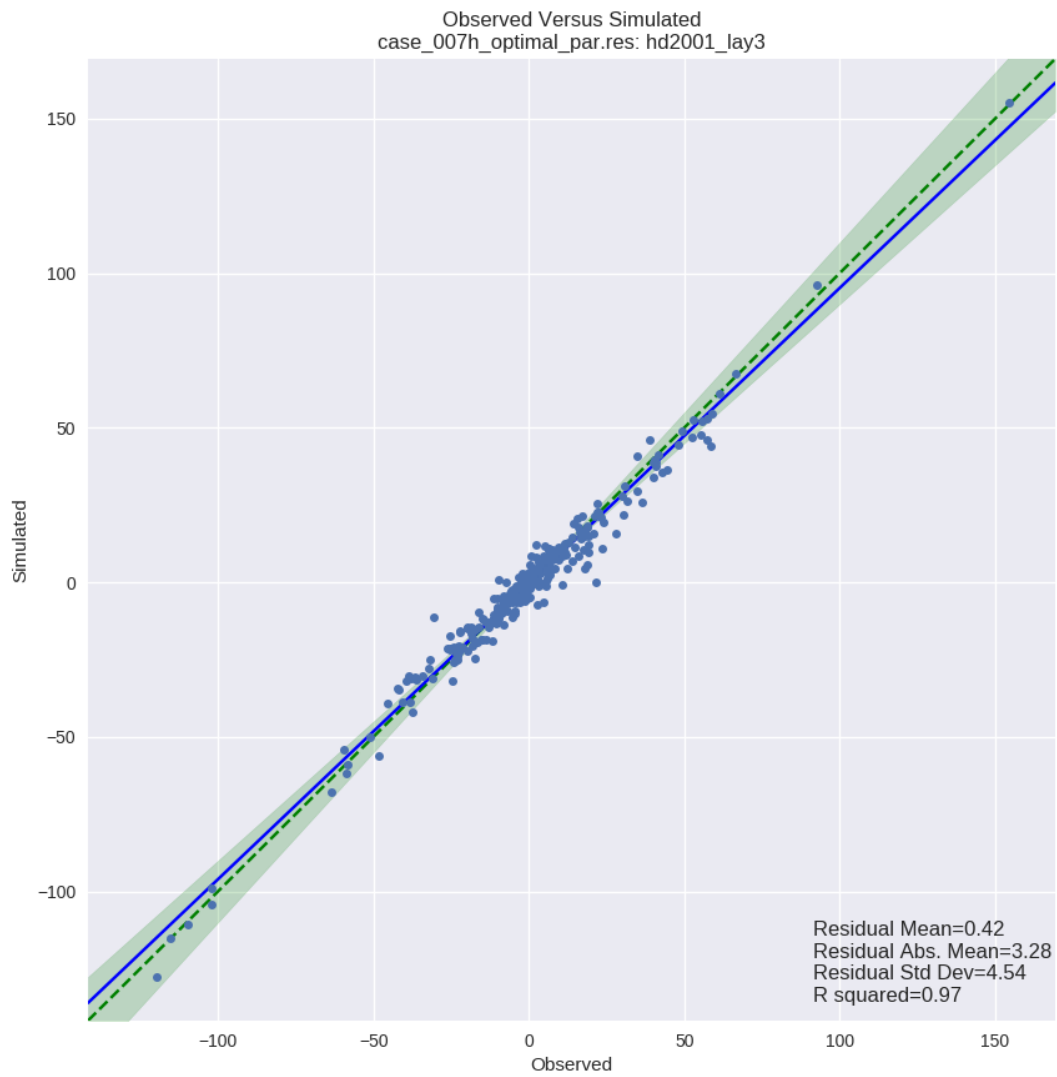


Figure 4-27. Observed versus Simulated Horizontal Head Differences (Feet), Model Layer 3, 2001

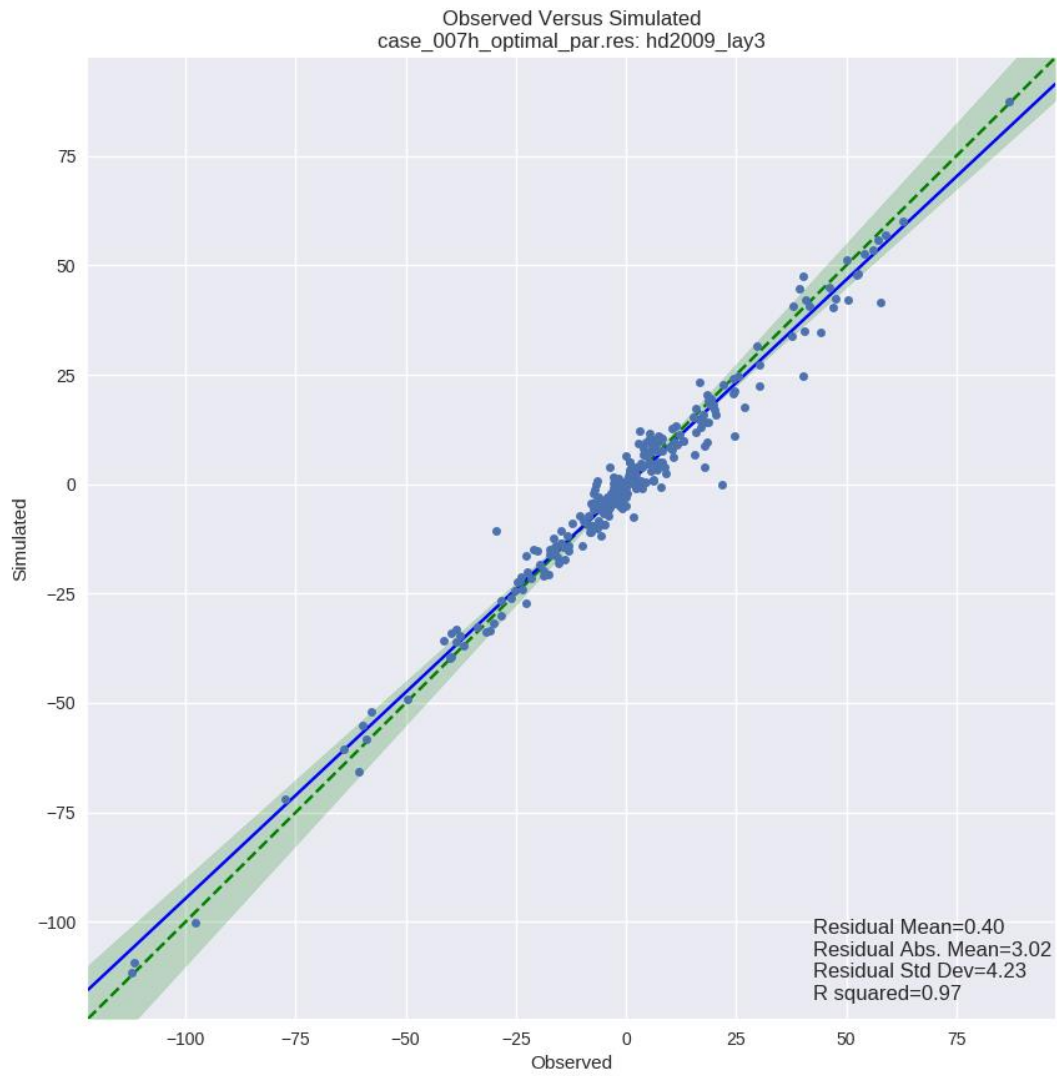


Figure 4-28. Observed versus Simulated Horizontal Head Differences (Feet), Model Layer 3, 2009

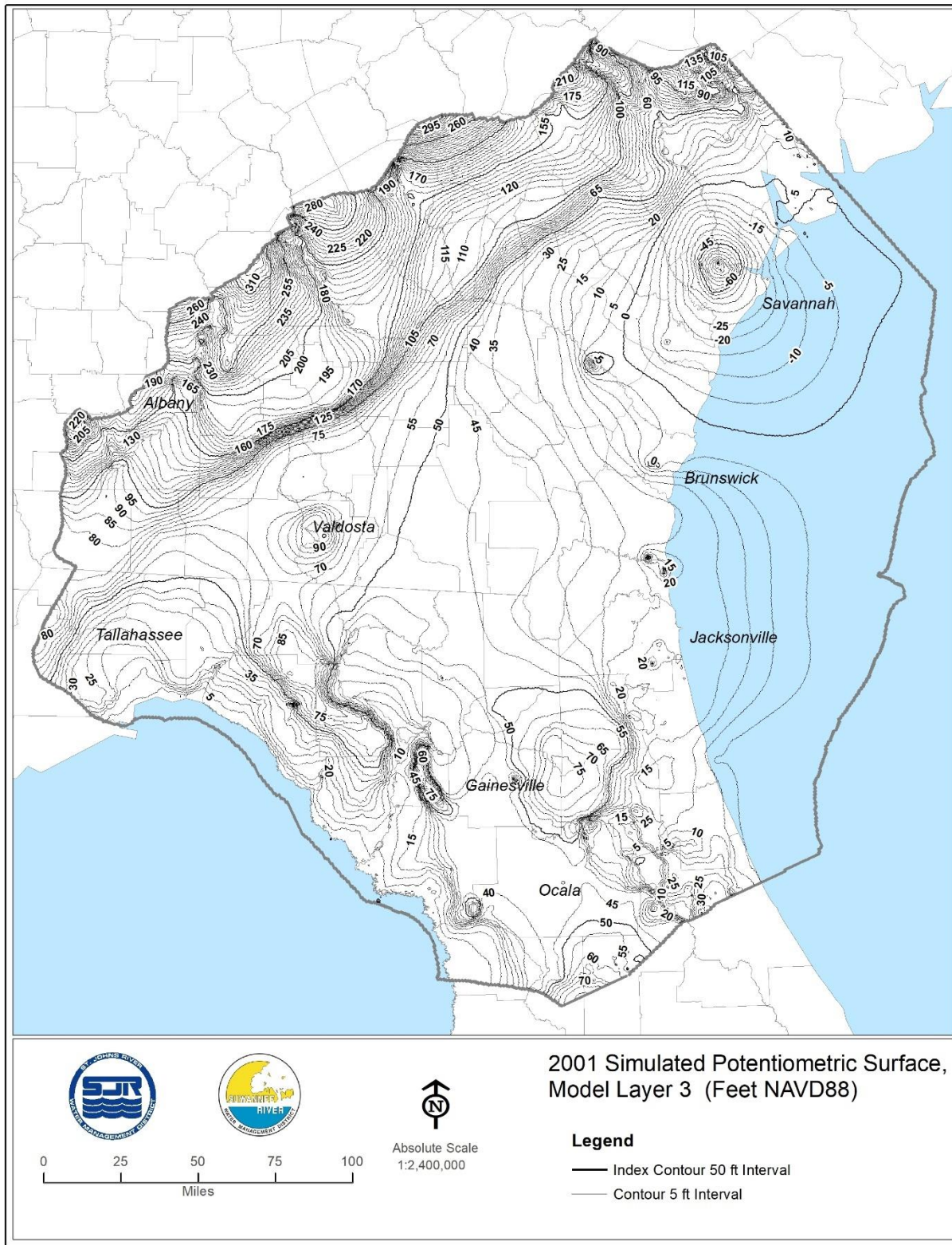


Figure 4-29. Simulated Potentiometric Surface, Model Layer 3 (Feet NAVD88), 2001

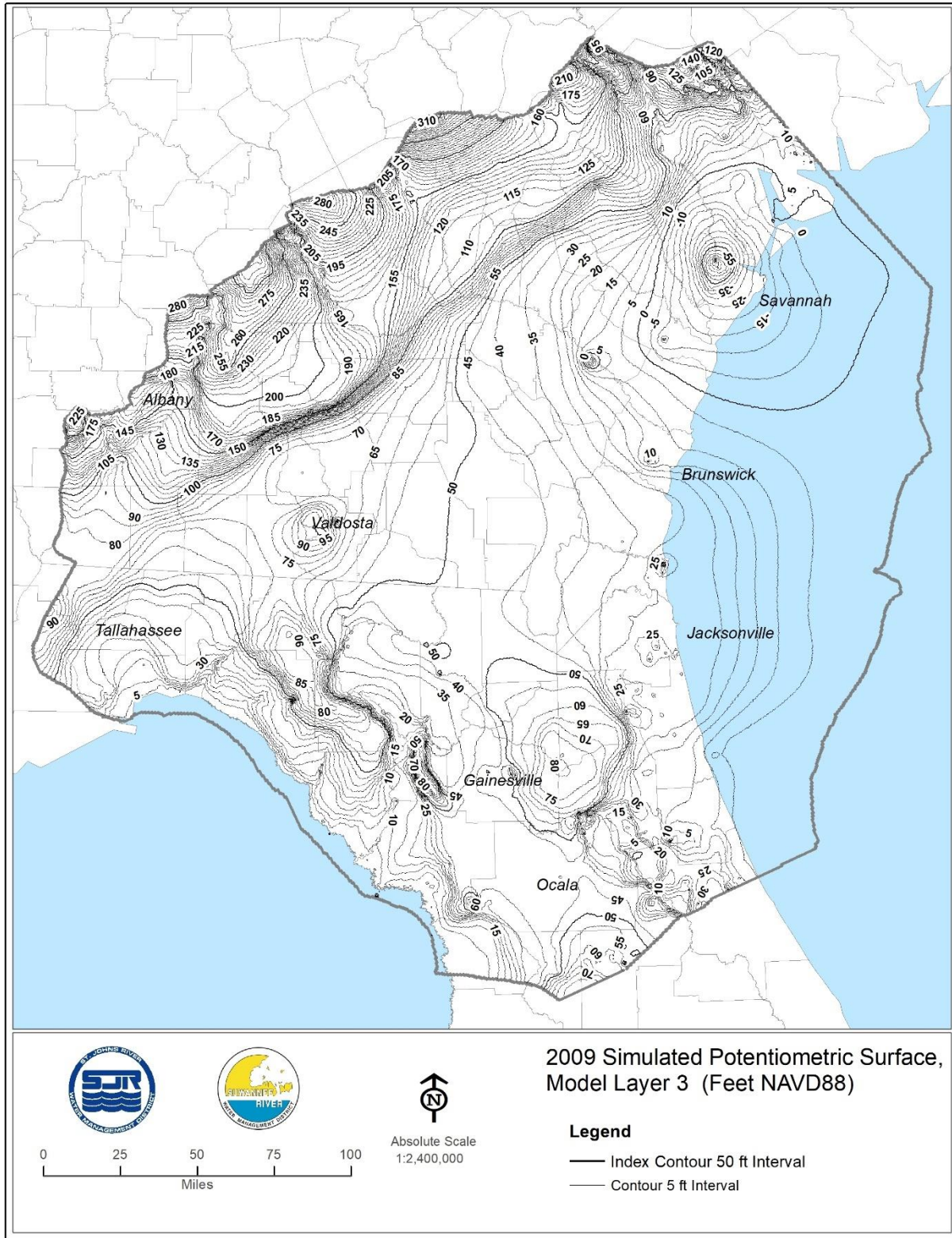


Figure 4-30. Simulated Potentiometric Surface, Model Layer 3 (Feet NAVD88), 2009

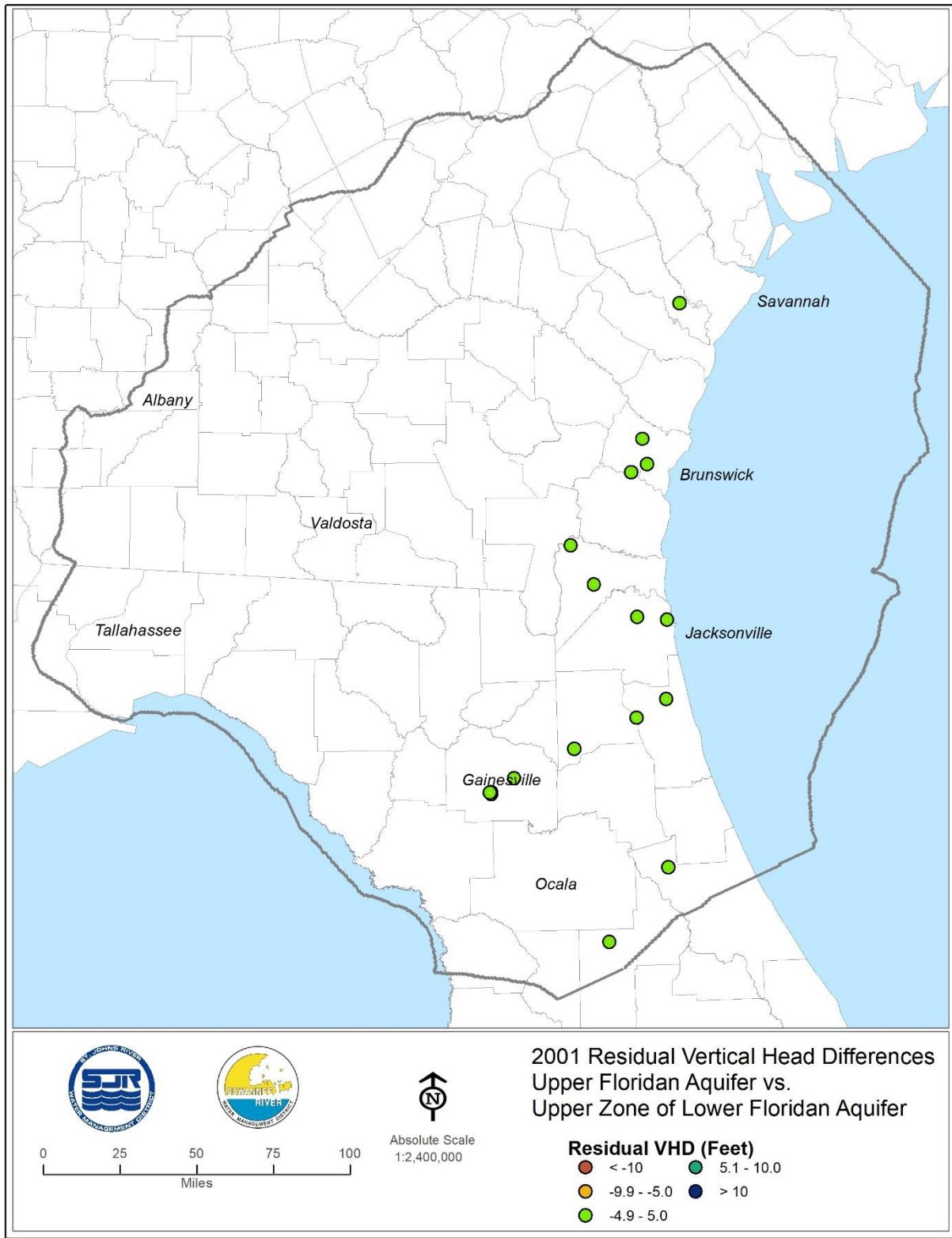


Figure 4-31. Residuals of Vertical Head Differences (Feet), Model Layers 3 and 5, 2001

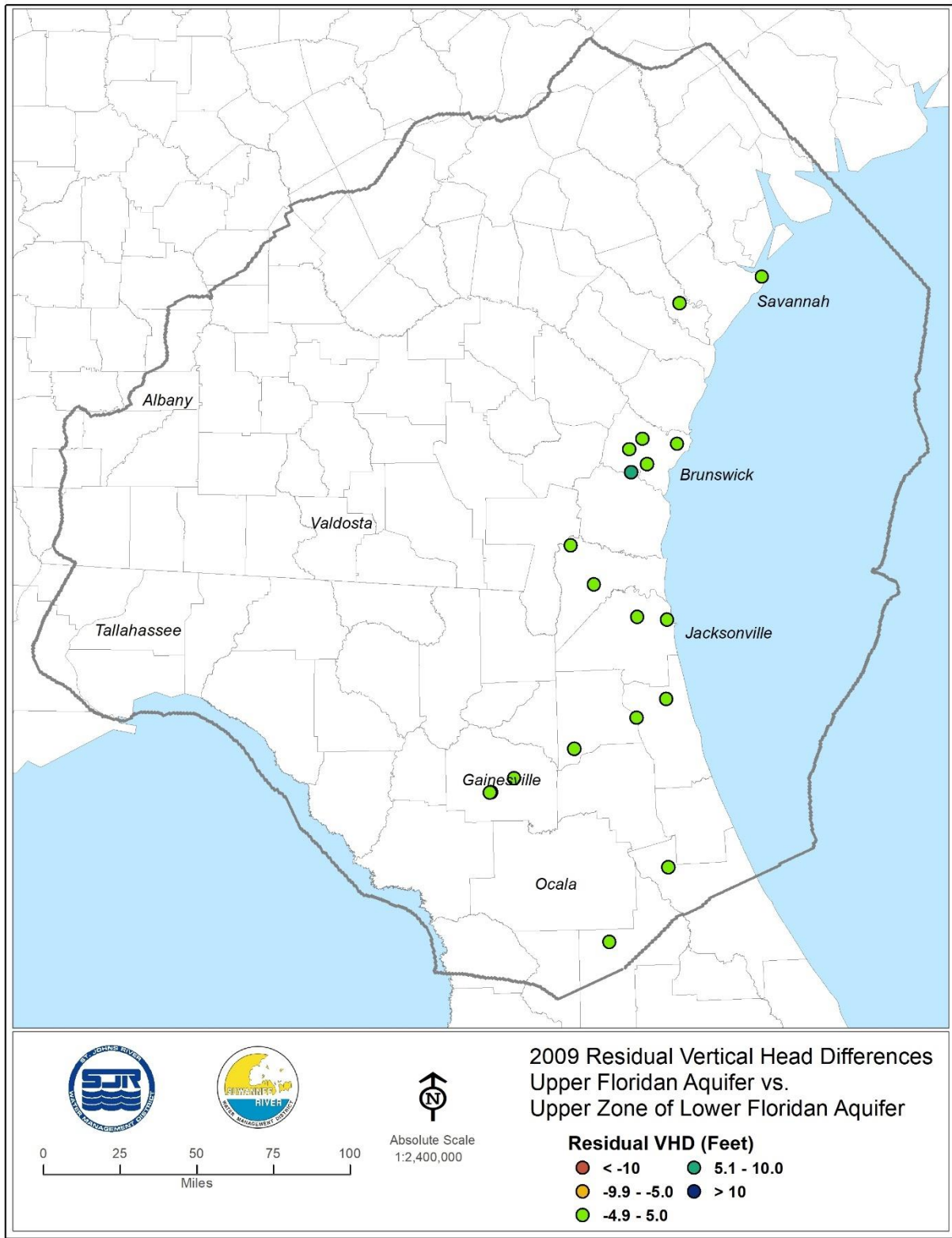


Figure 4-32. Residuals of Vertical Head Differences (Feet), Model Layers 3 and 5, 2009

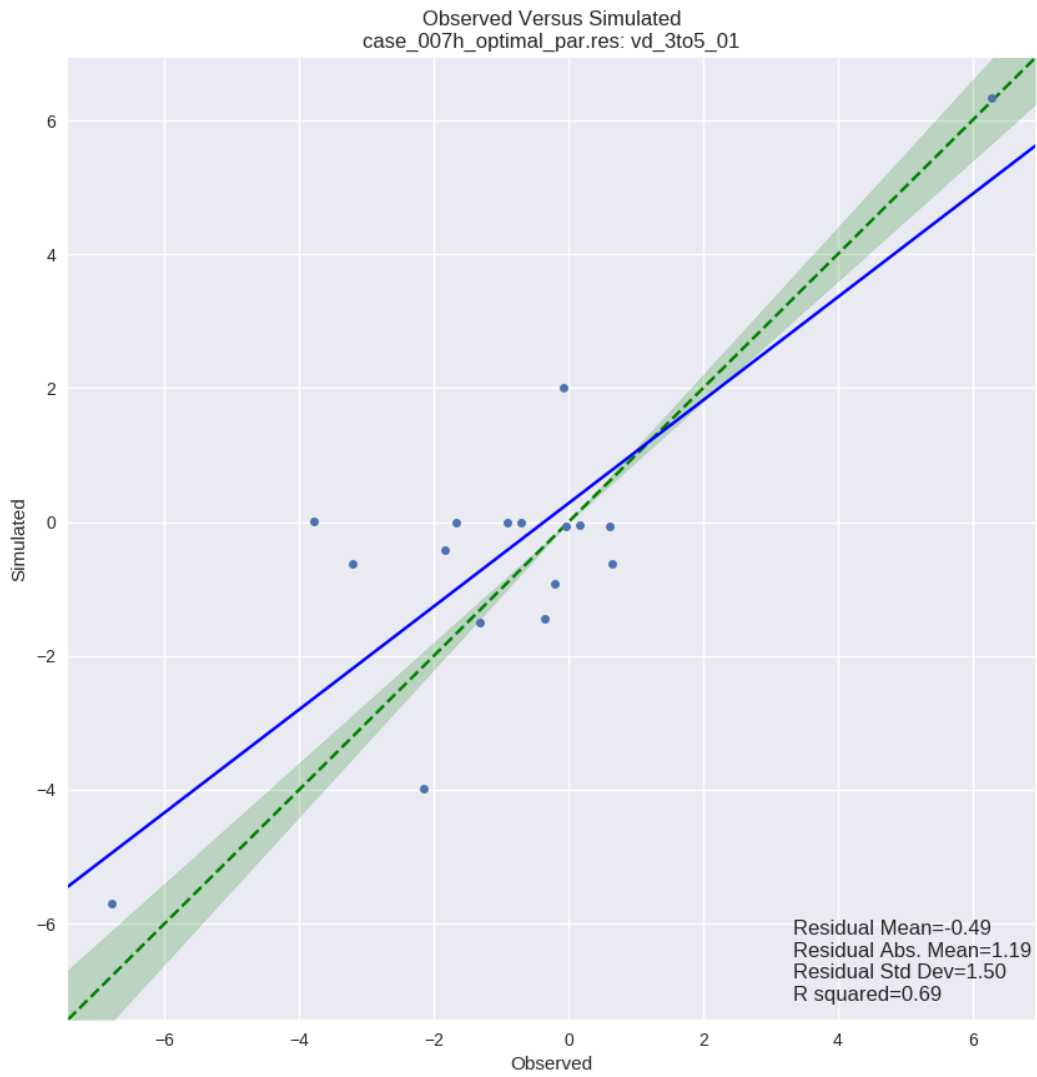


Figure 4-33. Observed versus Simulated Vertical Head Differences (Feet), Model Layers 3 and 5, 2001

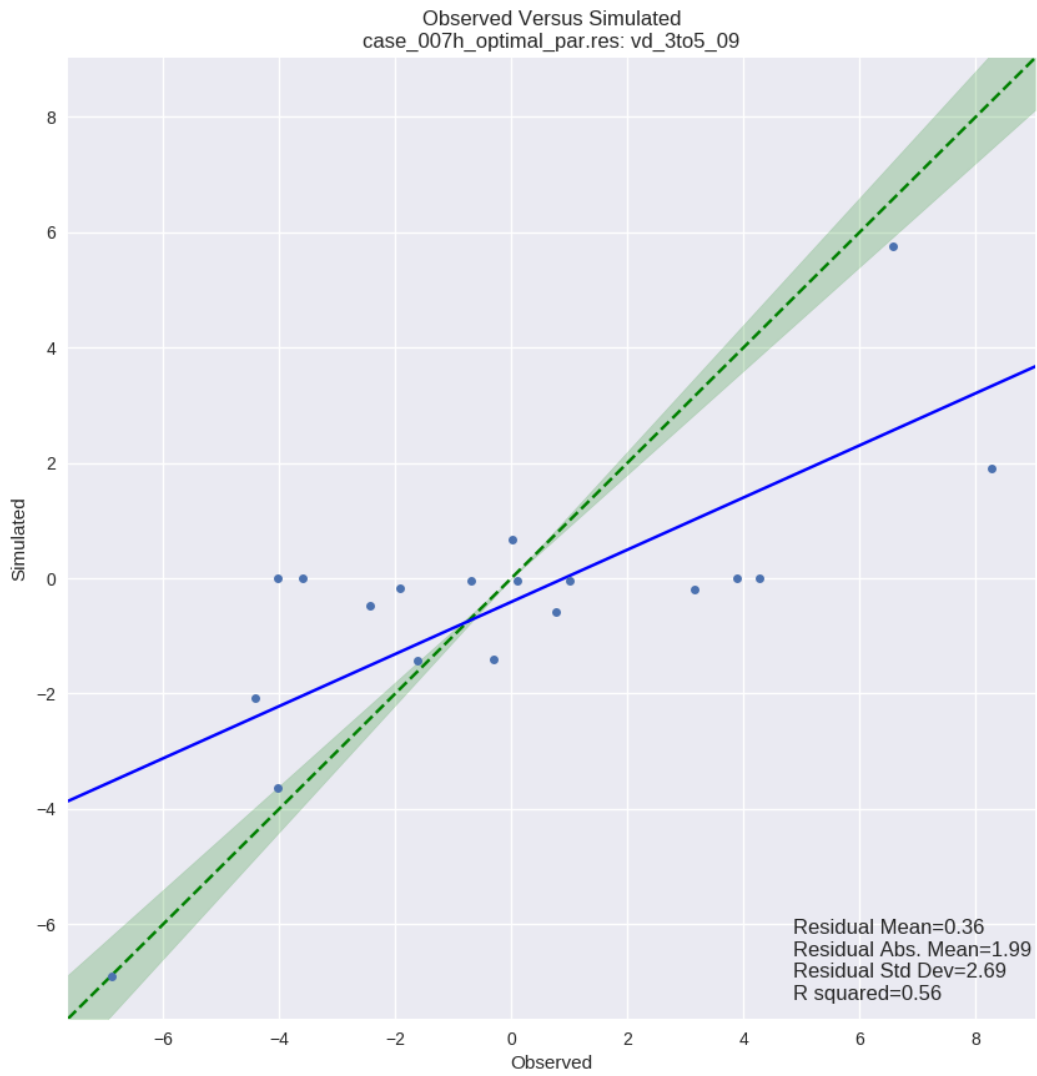


Figure 4-34. Observed versus Simulated Vertical Head Differences (Feet), Model Layers 3 and 5, 2009

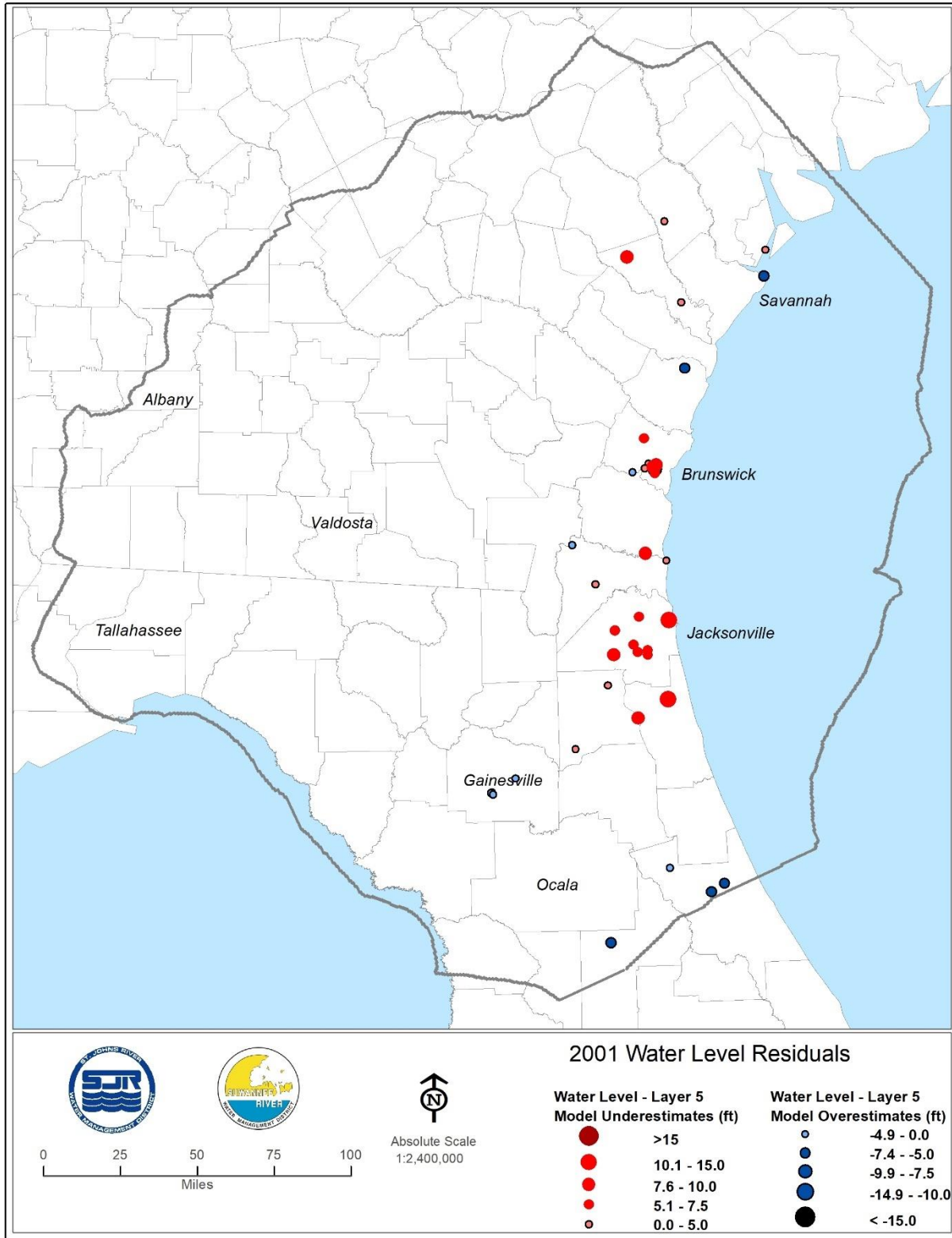


Figure 4-35. Residuals of Hydraulic Head (Feet), Model Layer 5, 2001

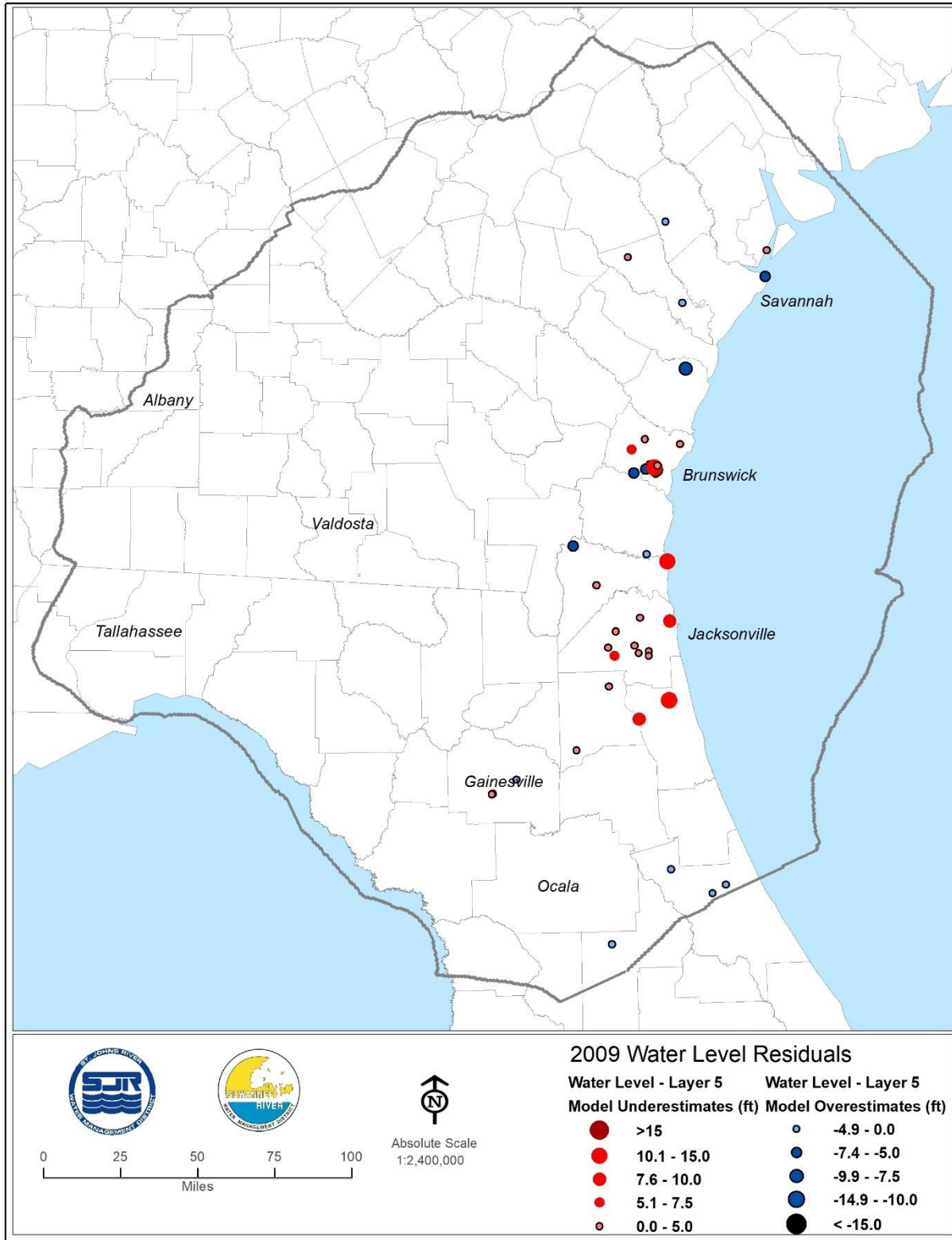


Figure 4-36. Residuals of Hydraulic Head (Feet), Model Layer 5, 2009

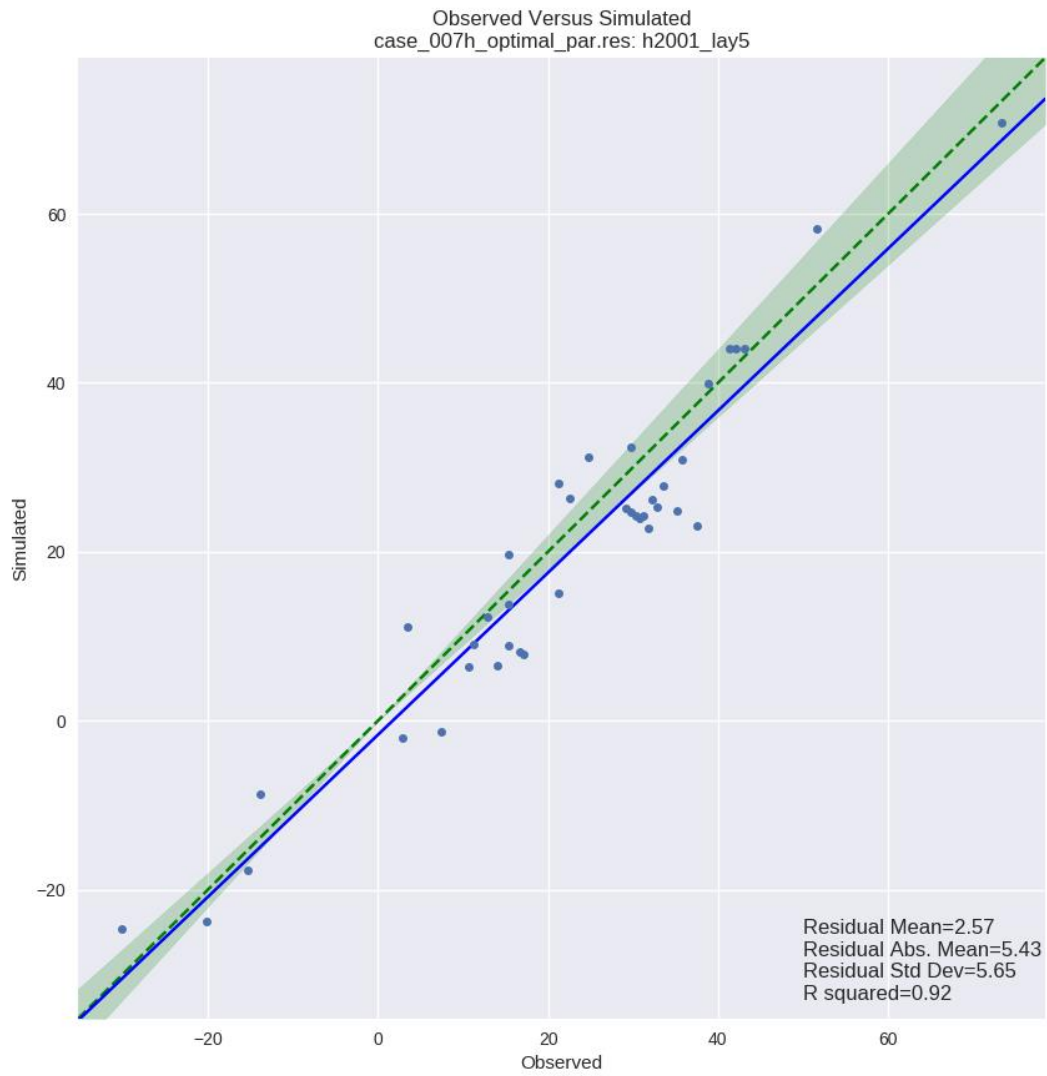


Figure 4-37. Observed versus Simulated Hydraulic Head (Feet NAVD88), Model Layer 5, 2001

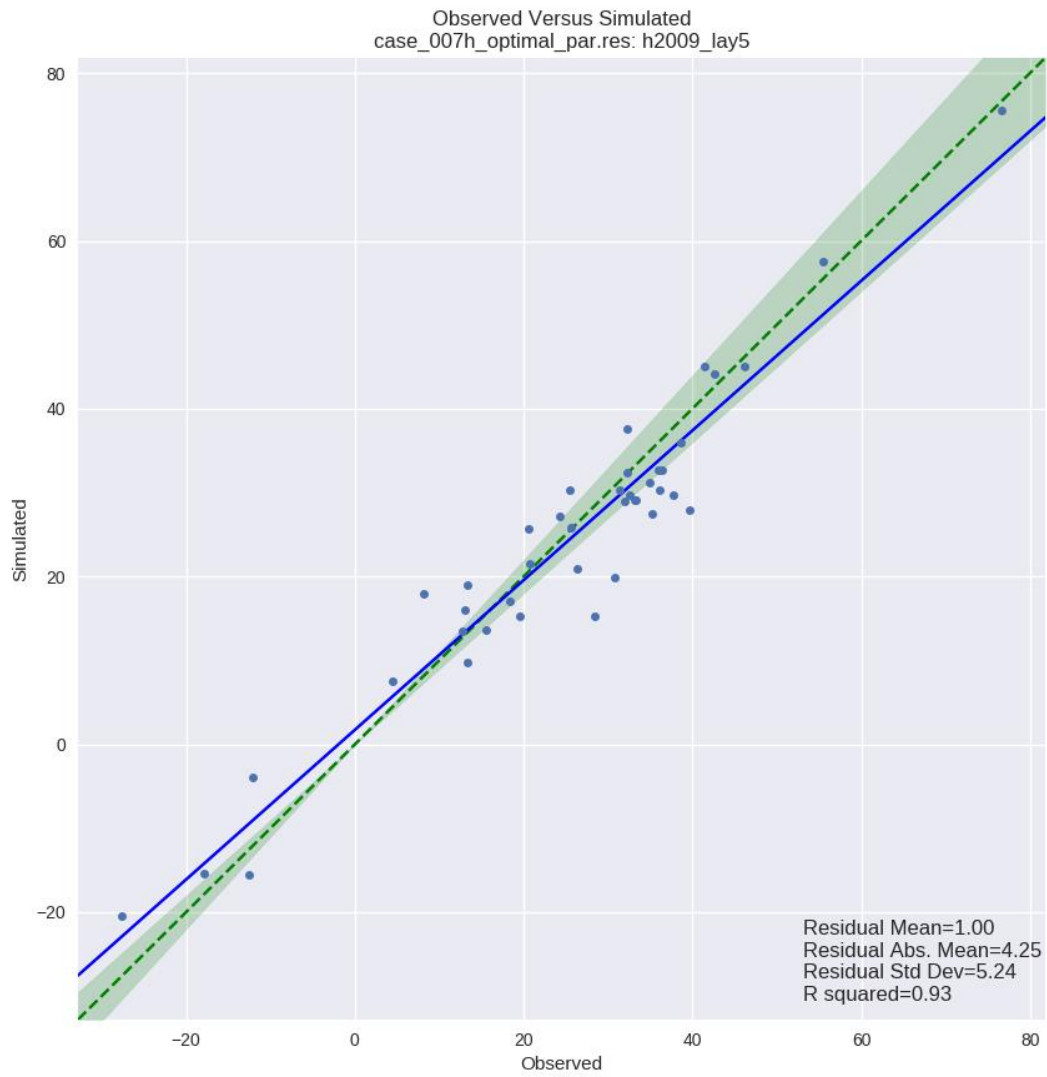


Figure 4-38. Observed versus Simulated Hydraulic Head (Feet NAVD88), Model Layer 5, 2009

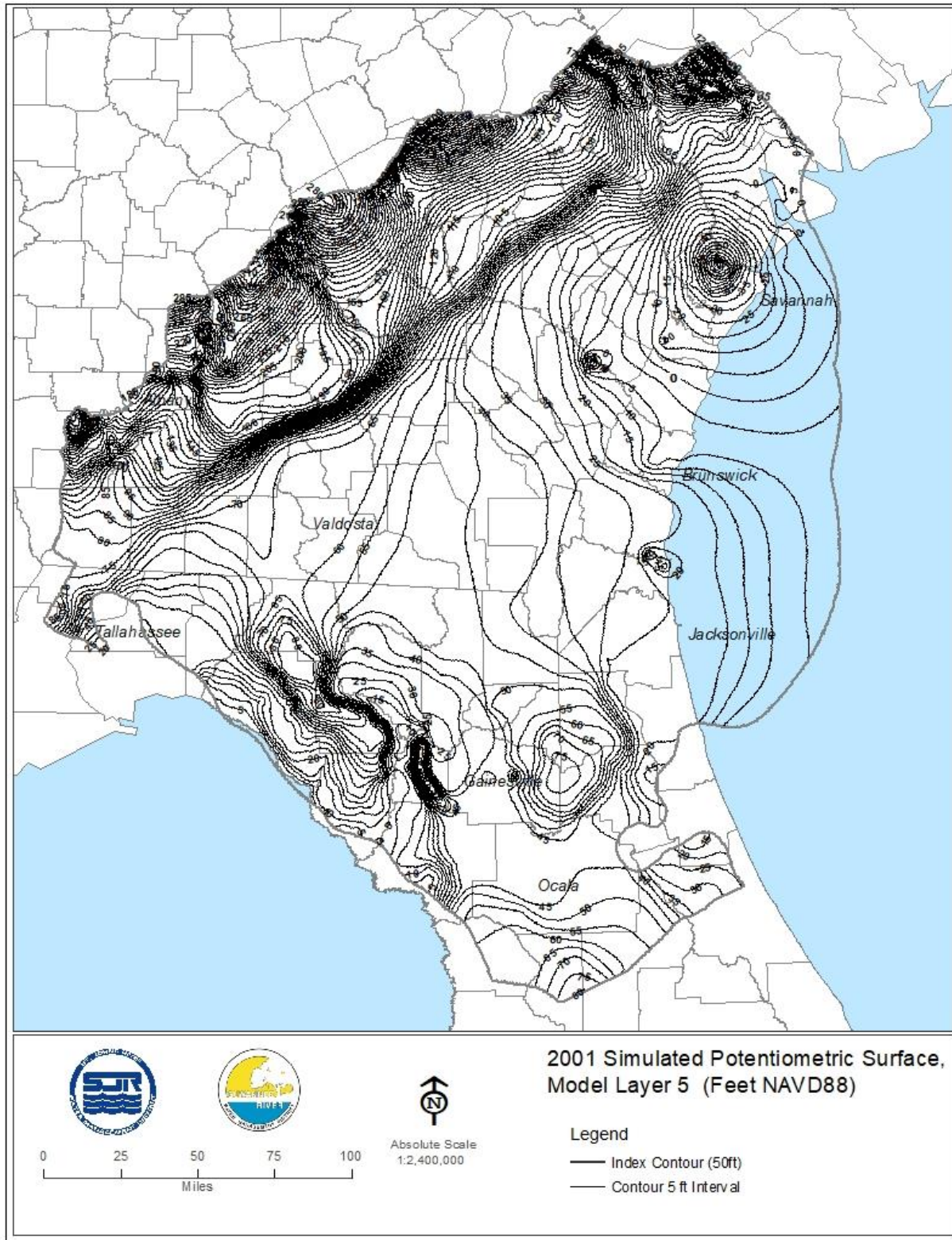


Figure 4-39. Simulated Potentiometric Surface, Model Layer 5 (Feet NAVD88), 2001

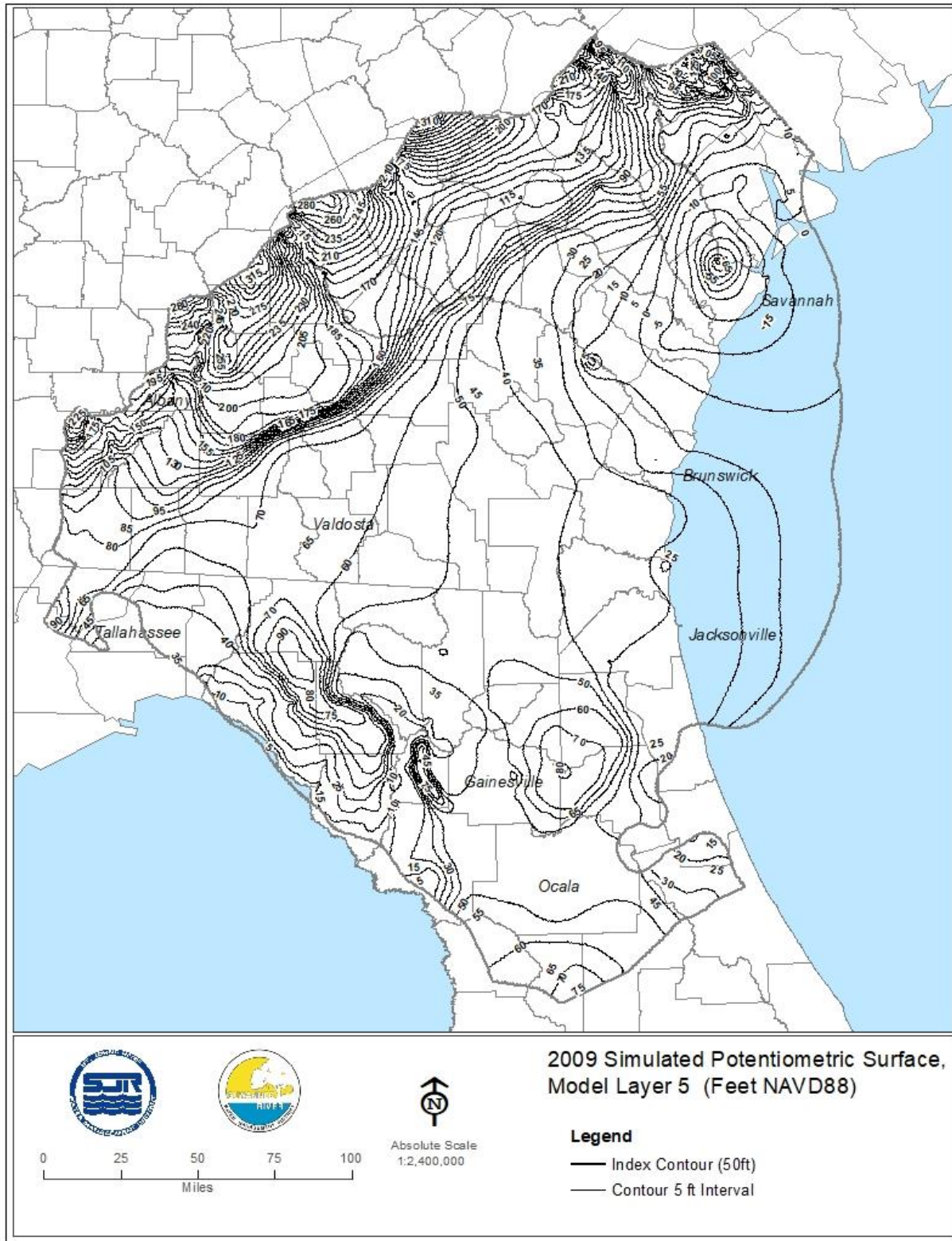


Figure 4-40. Simulated Potentiometric Surface, Model Layer 5 (Feet NAVD88), 2009

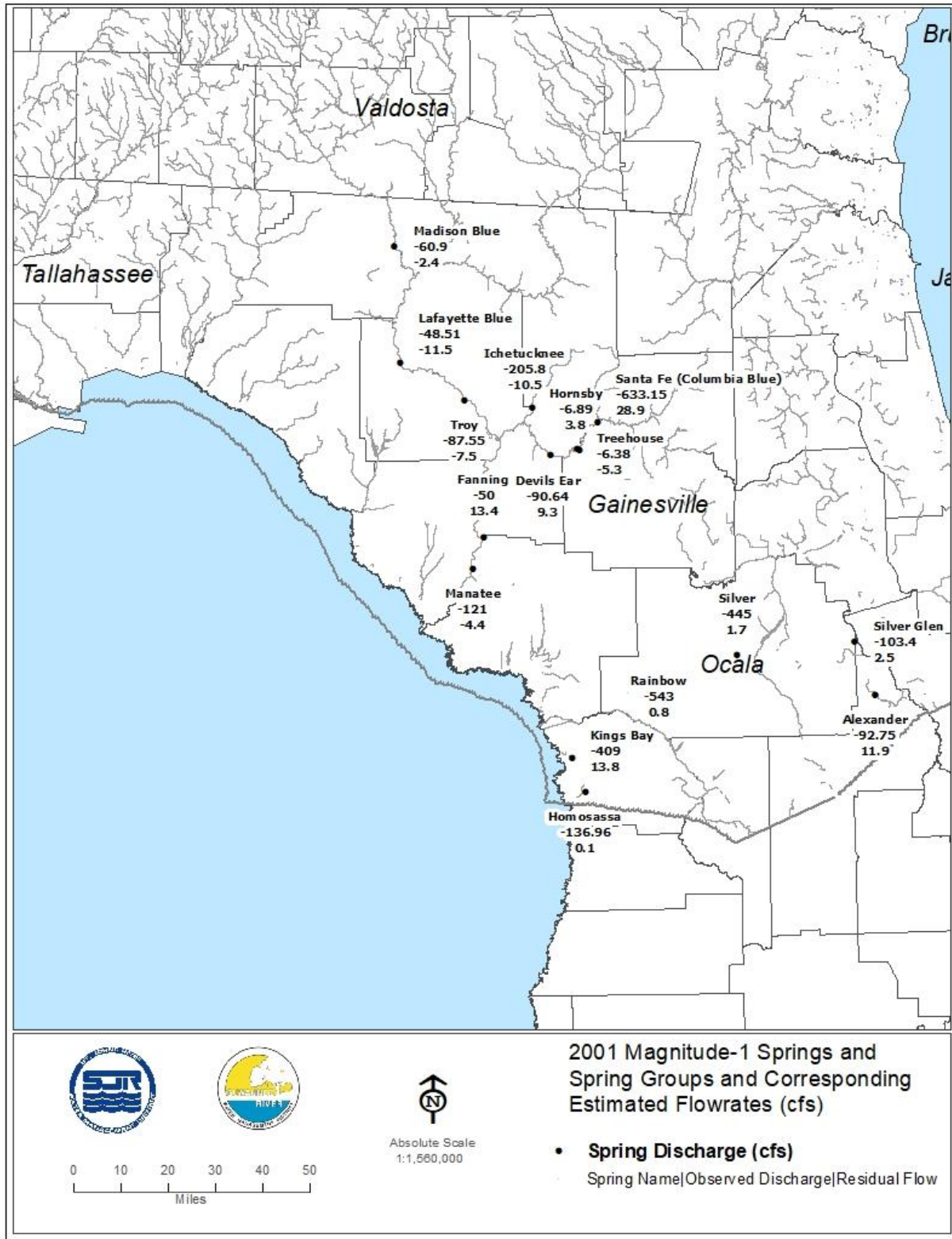


Figure 4-41. Magnitude 1 Springs and Spring Groups and Corresponding Estimated Flowrates and Flowrate Residuals (cfs), 2001

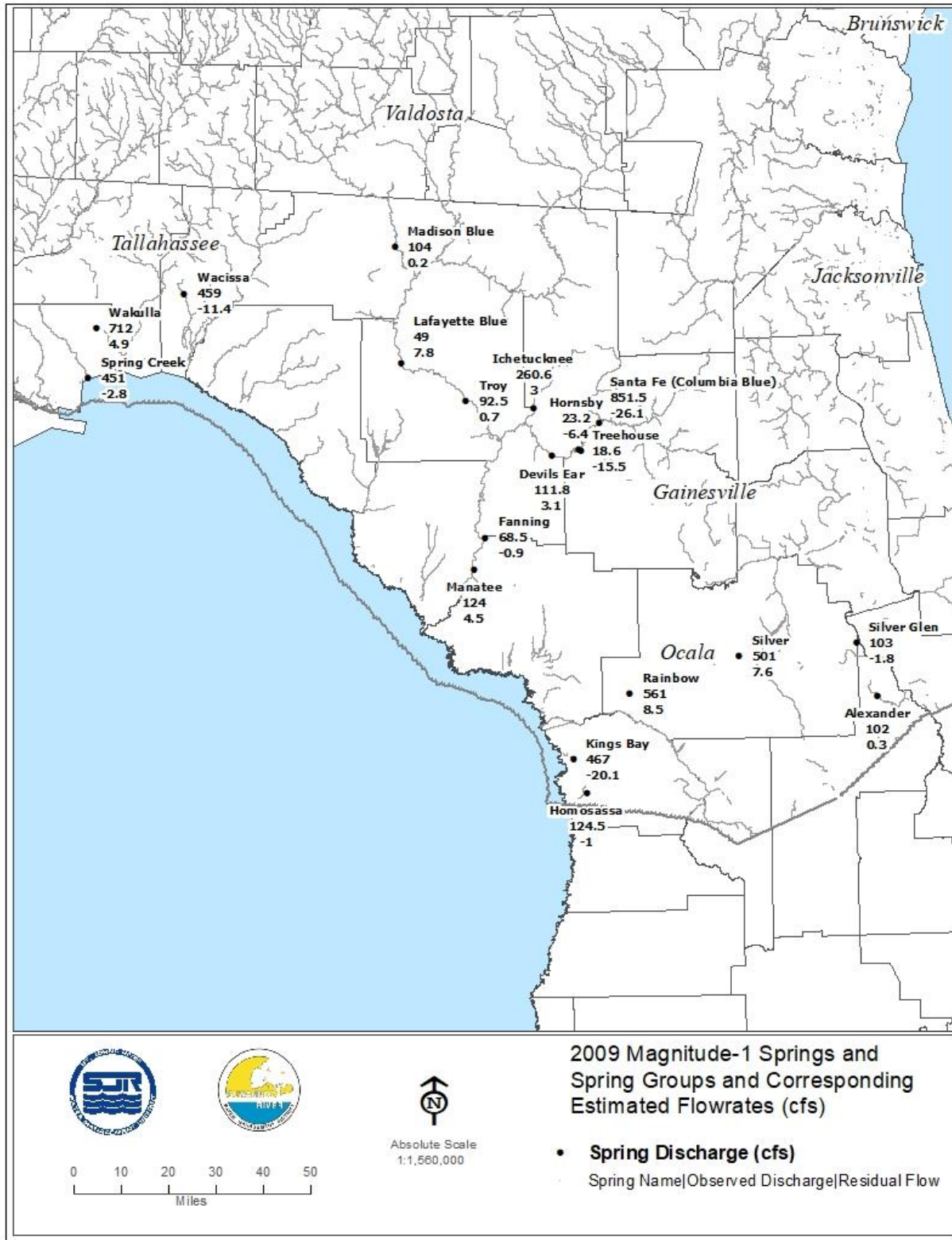


Figure 4-42. Magnitude 1 Springs and Spring Groups and Corresponding Estimated Flowrates and Flowrate Residuals (cfs), 2009

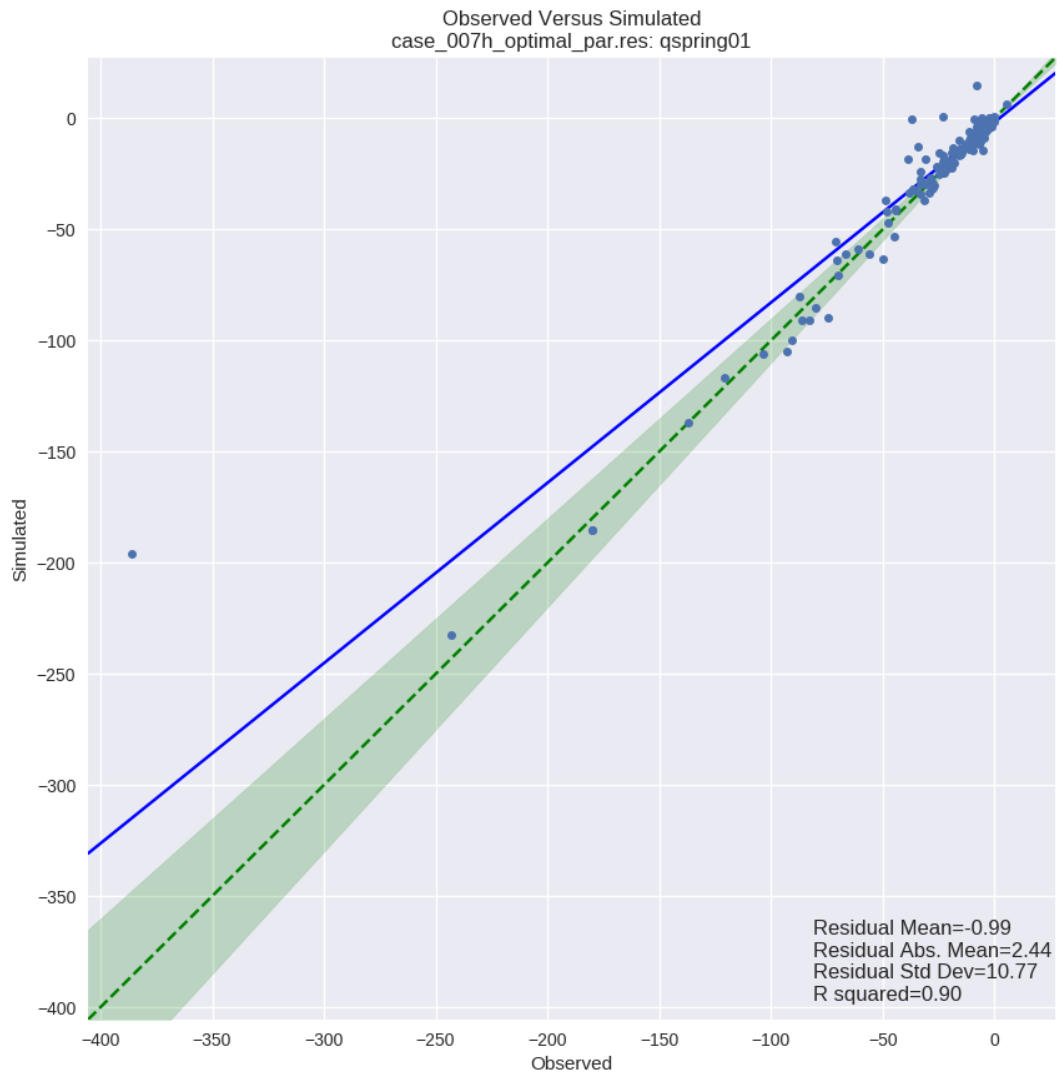


Figure 4-43. Observed vs. Simulated Spring Discharges (cfs), 2001

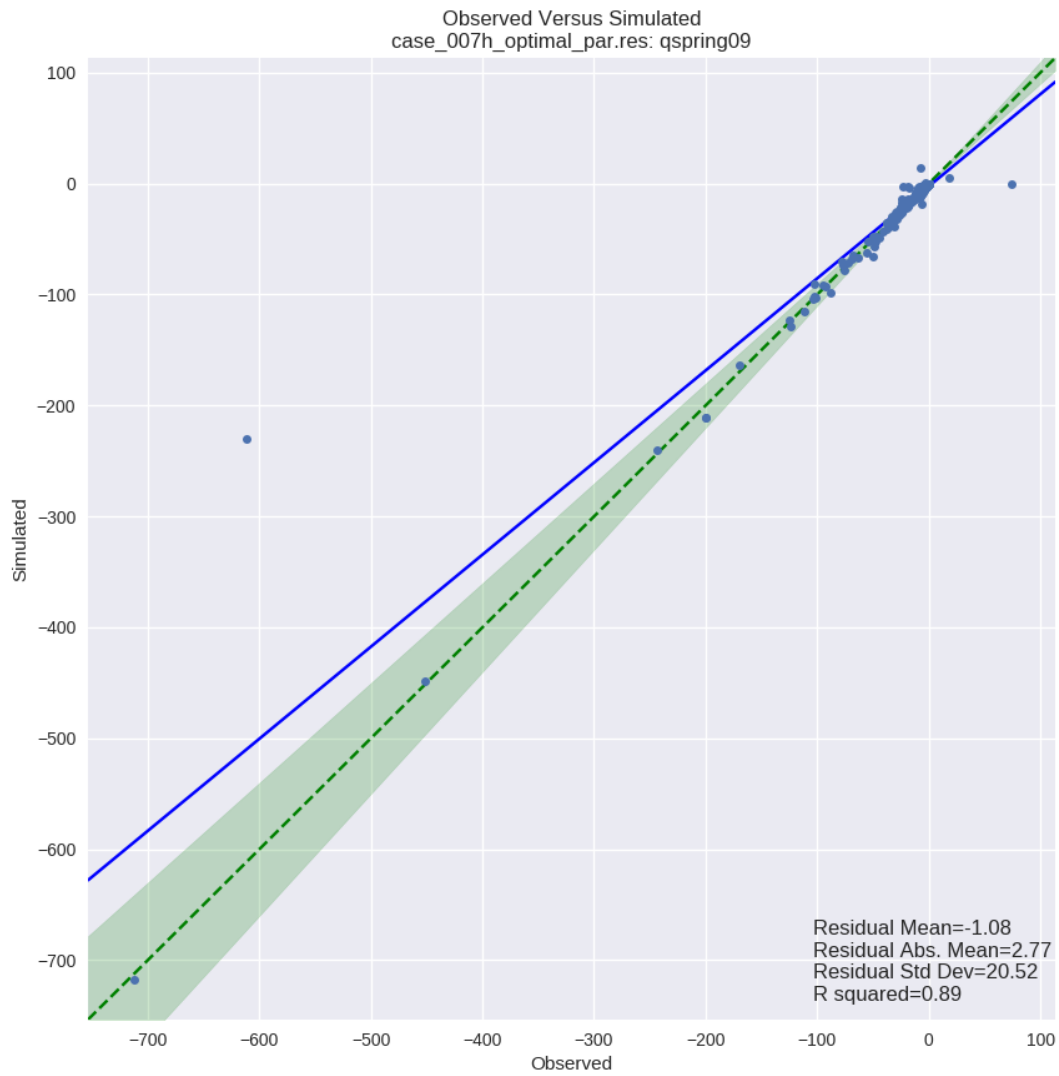


Figure 4-44. Observed vs. Simulated Spring Discharges (cfs), 2009

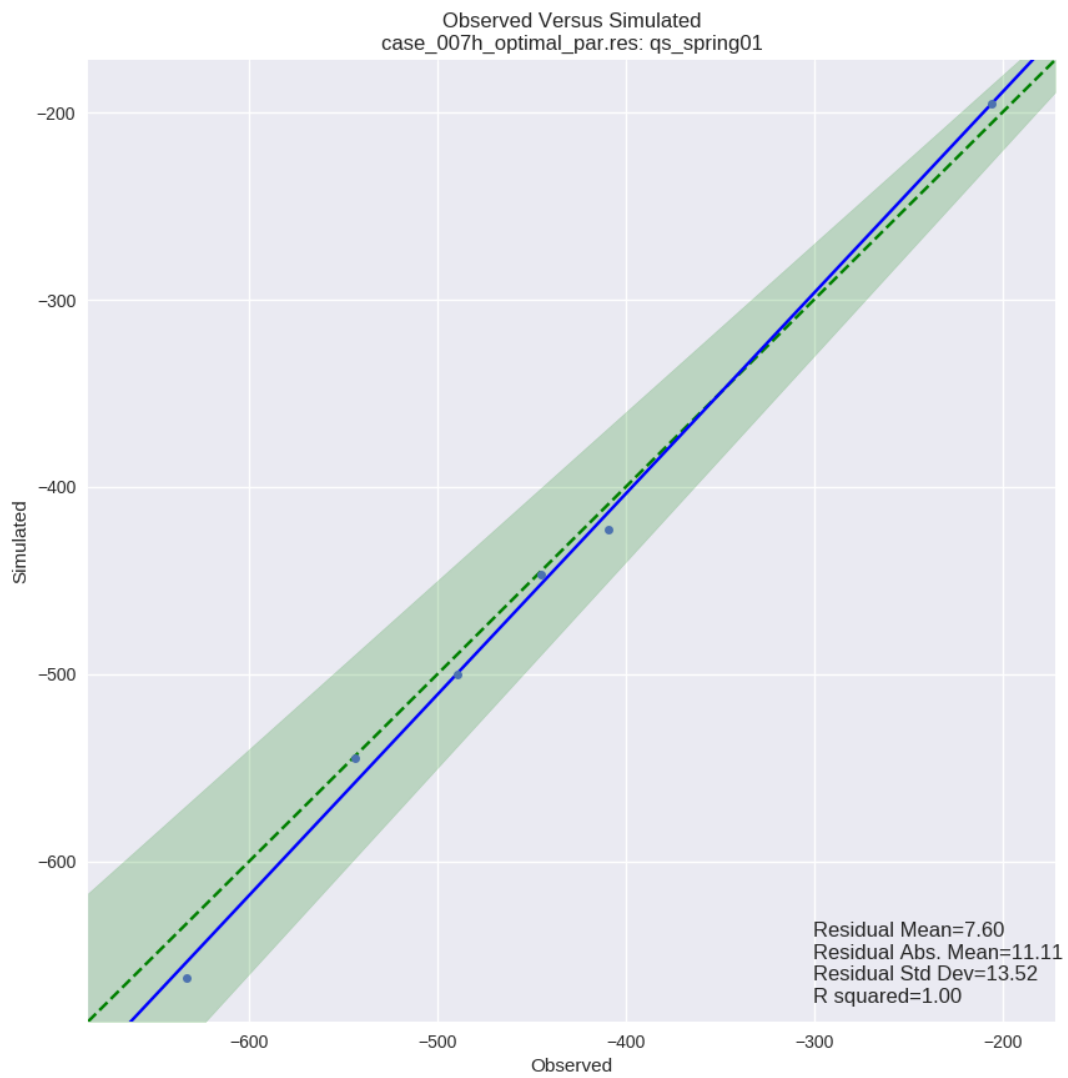


Figure 4-45. Observed vs. Simulated Spring-Group Discharges (cfs), 2001

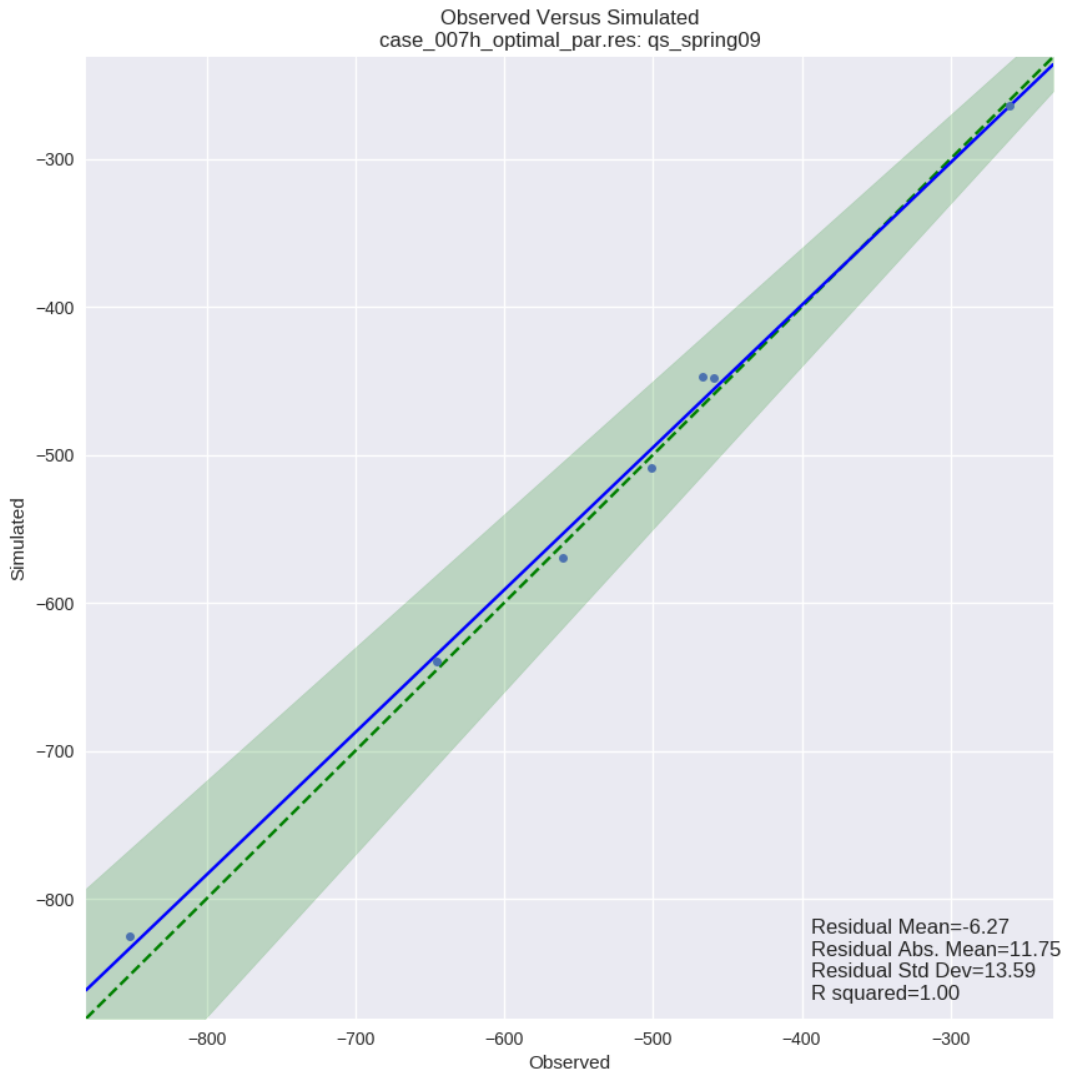


Figure 4-46. Observed vs. Simulated Spring-Group Discharges (cfs), 2009

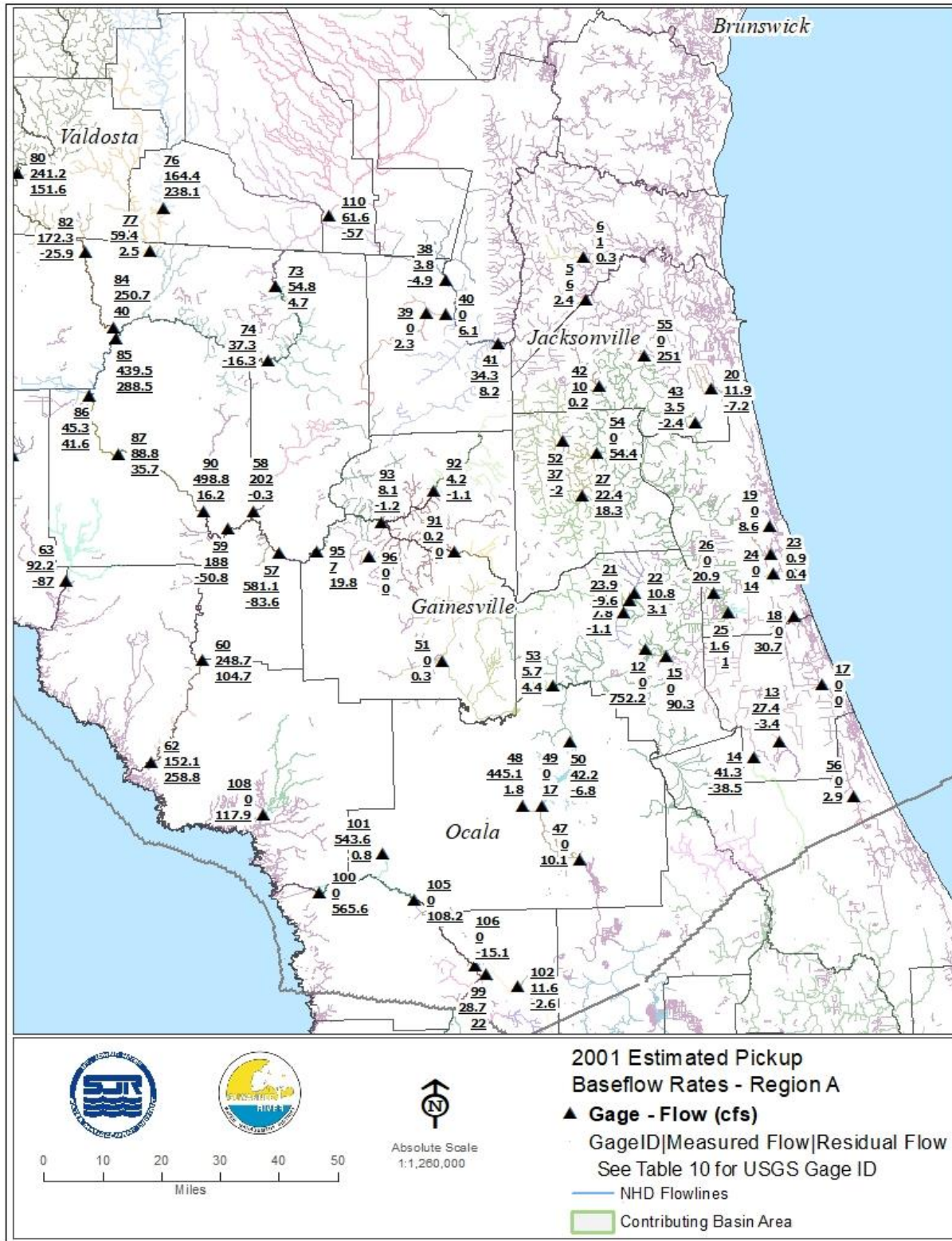


Figure 4-47. Estimated Baseflow Pickup Residuals (cfs), Region A, 2001

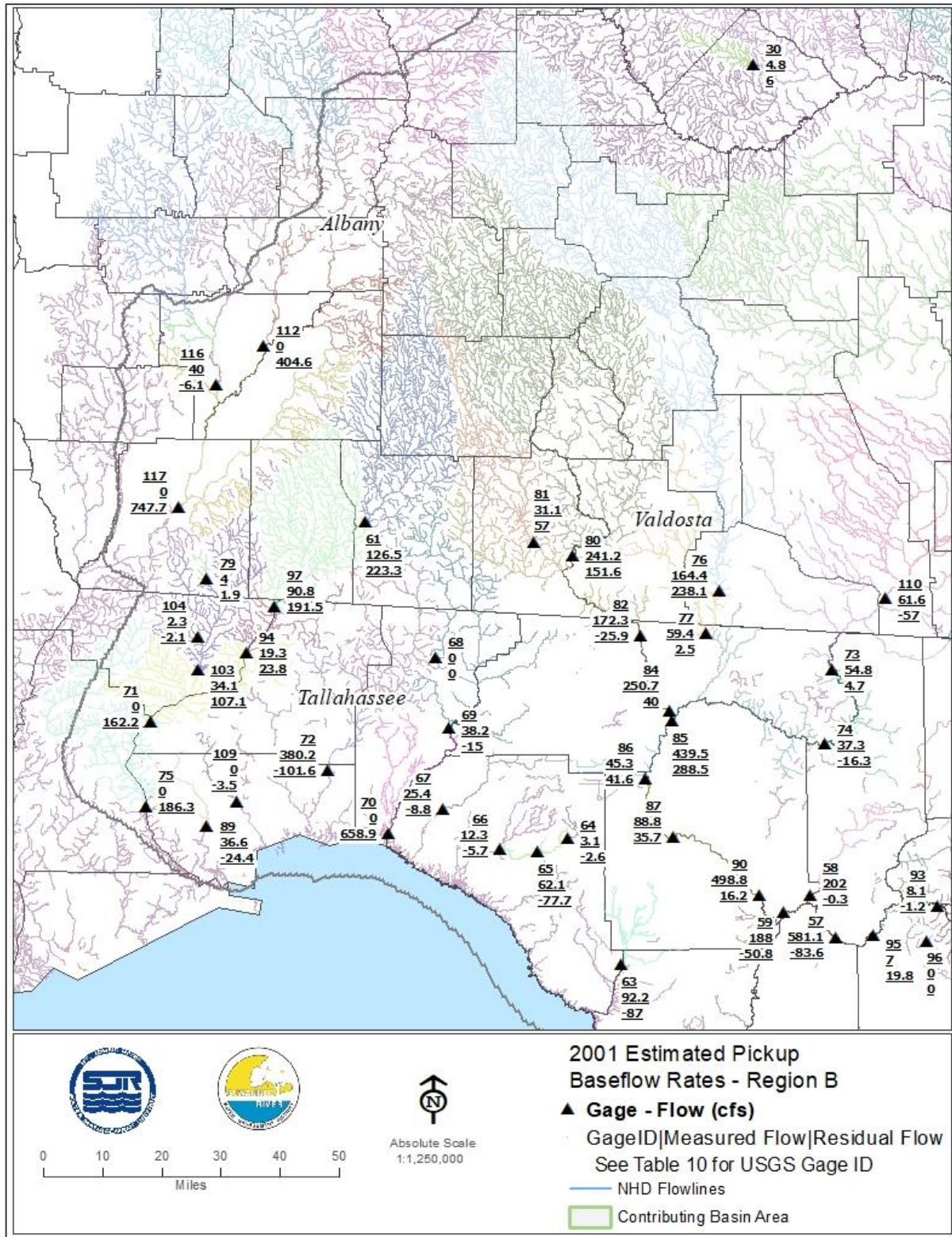


Figure 4-48. Estimated Baseflow Pickup Residuals (cfs), Region B, 2001

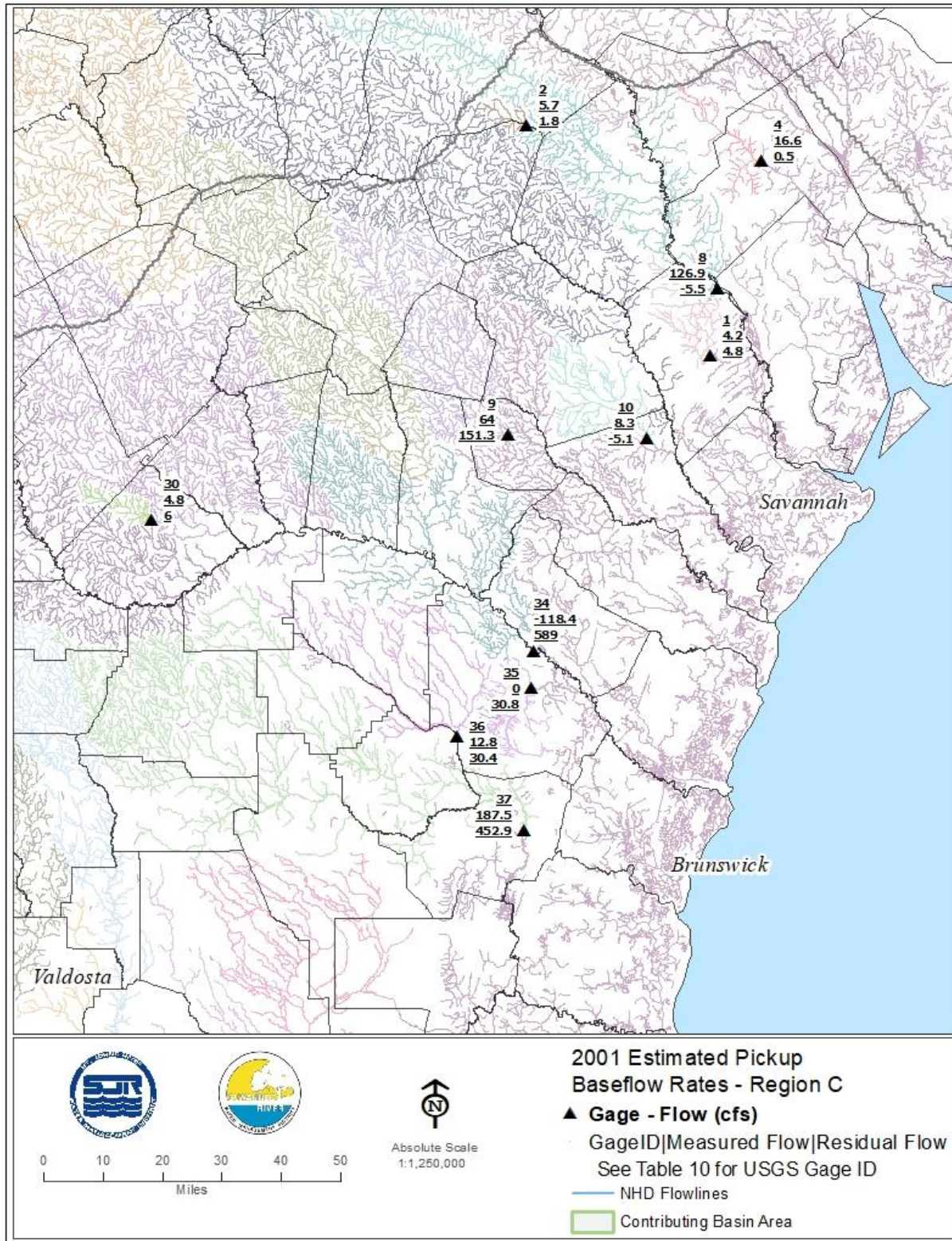


Figure 4-49. Estimated Baseflow Pickup Residuals (cfs), Region C, 2001

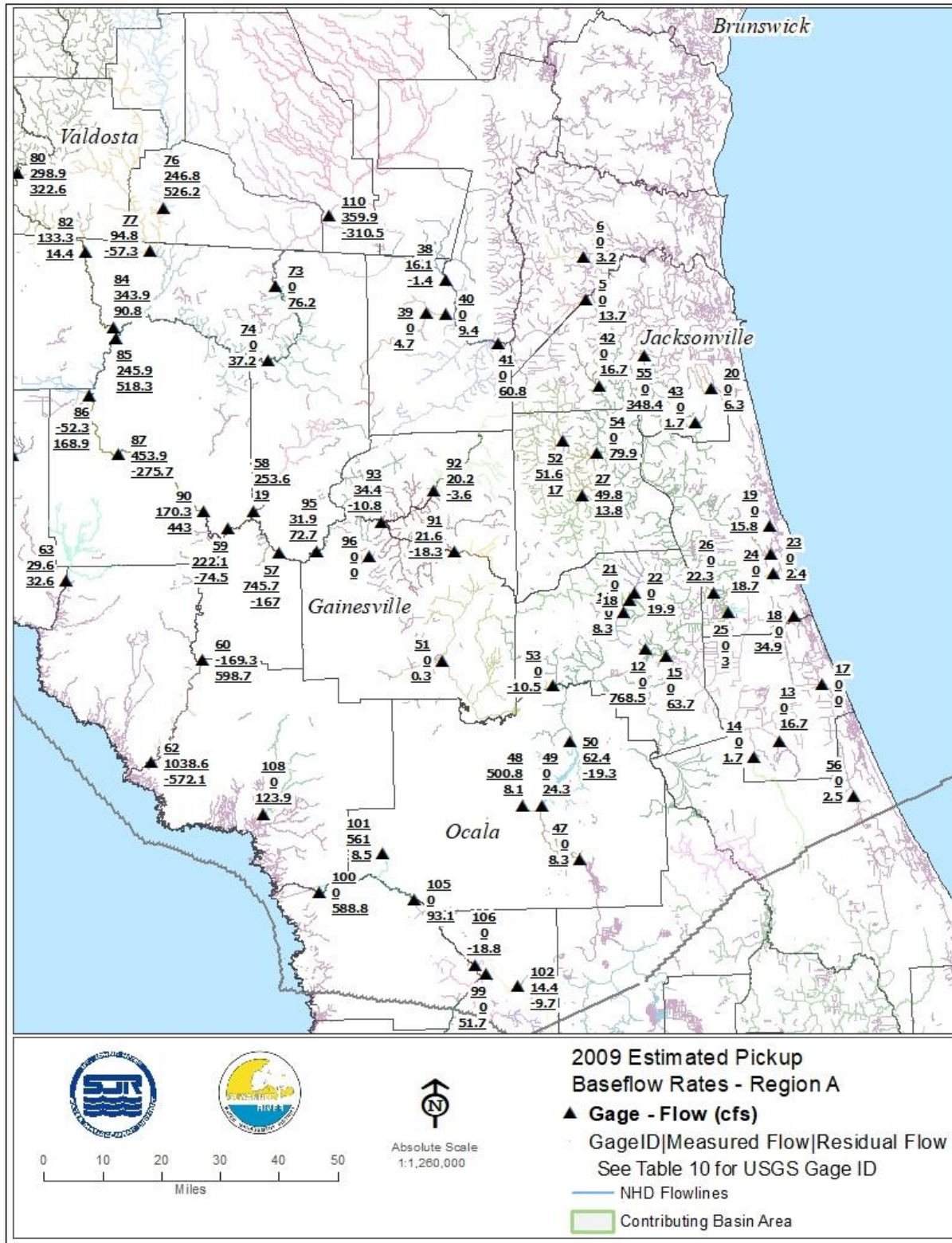


Figure 4-50. Estimated Baseflow Pickup Residuals (cfs), Region A, 2009

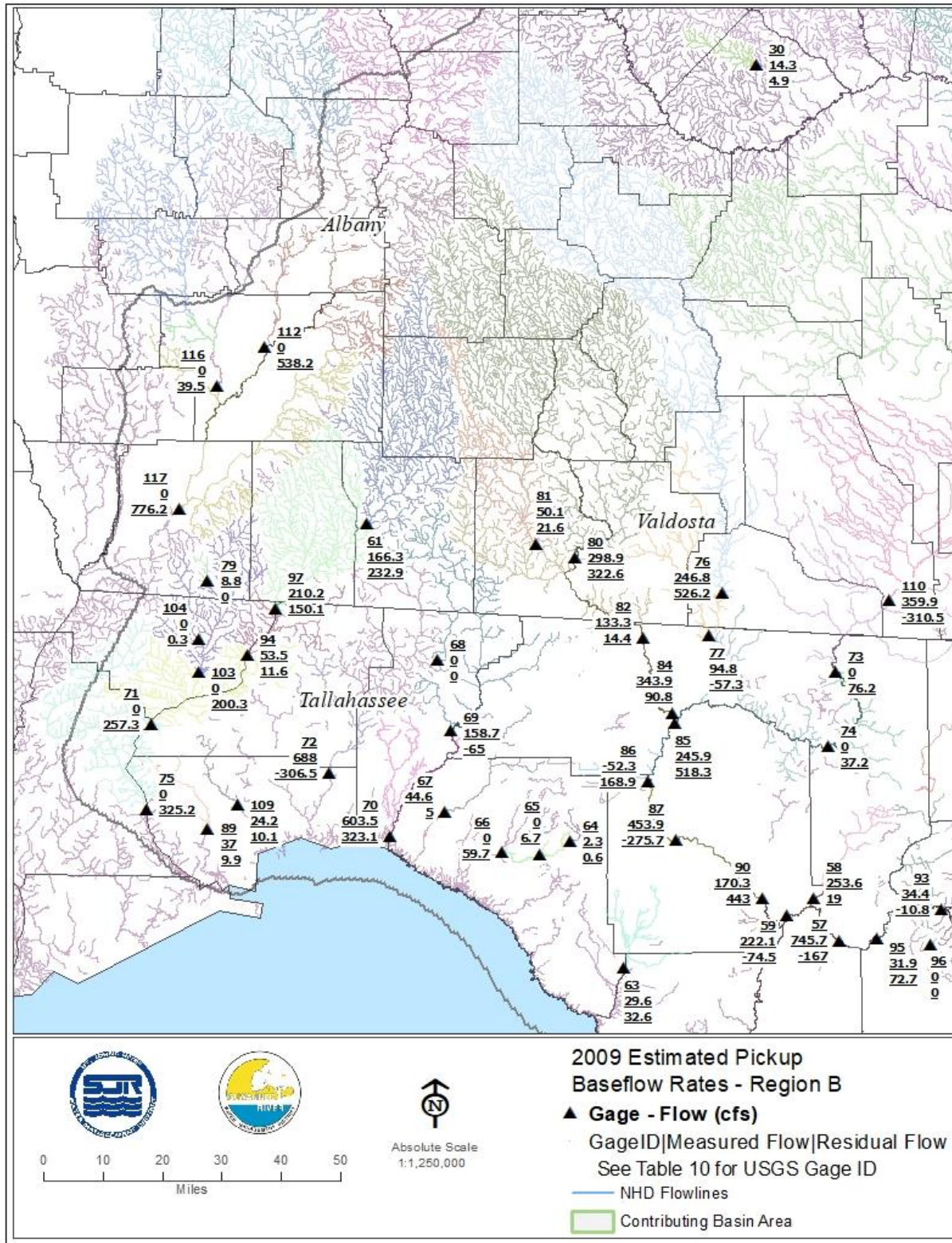


Figure 4-51. Estimated Baseflow Pickup Residuals (cfs), Region B, 2009

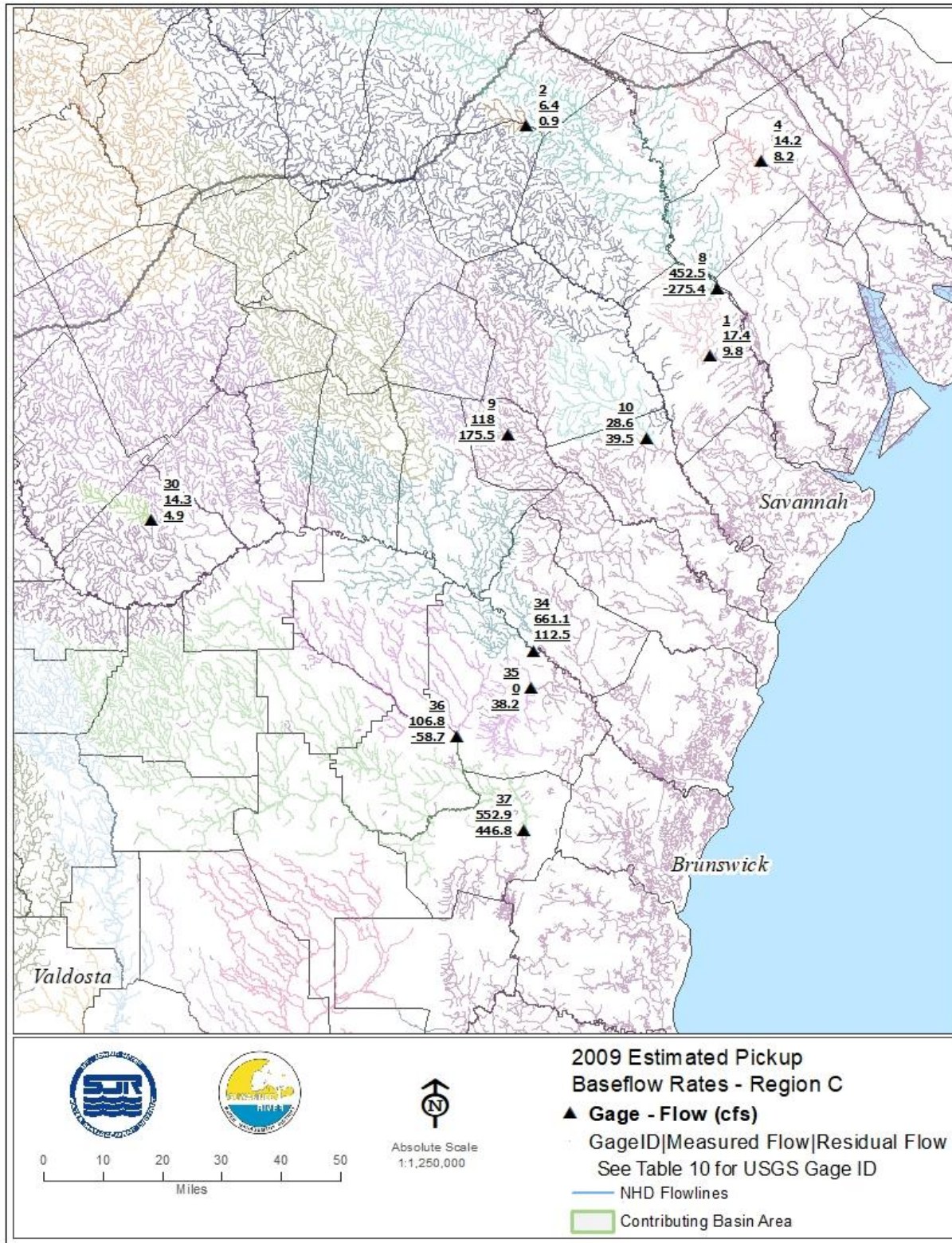


Figure 4-52. Estimated Baseflow Pickup Residuals (cfs), Region C, 2009

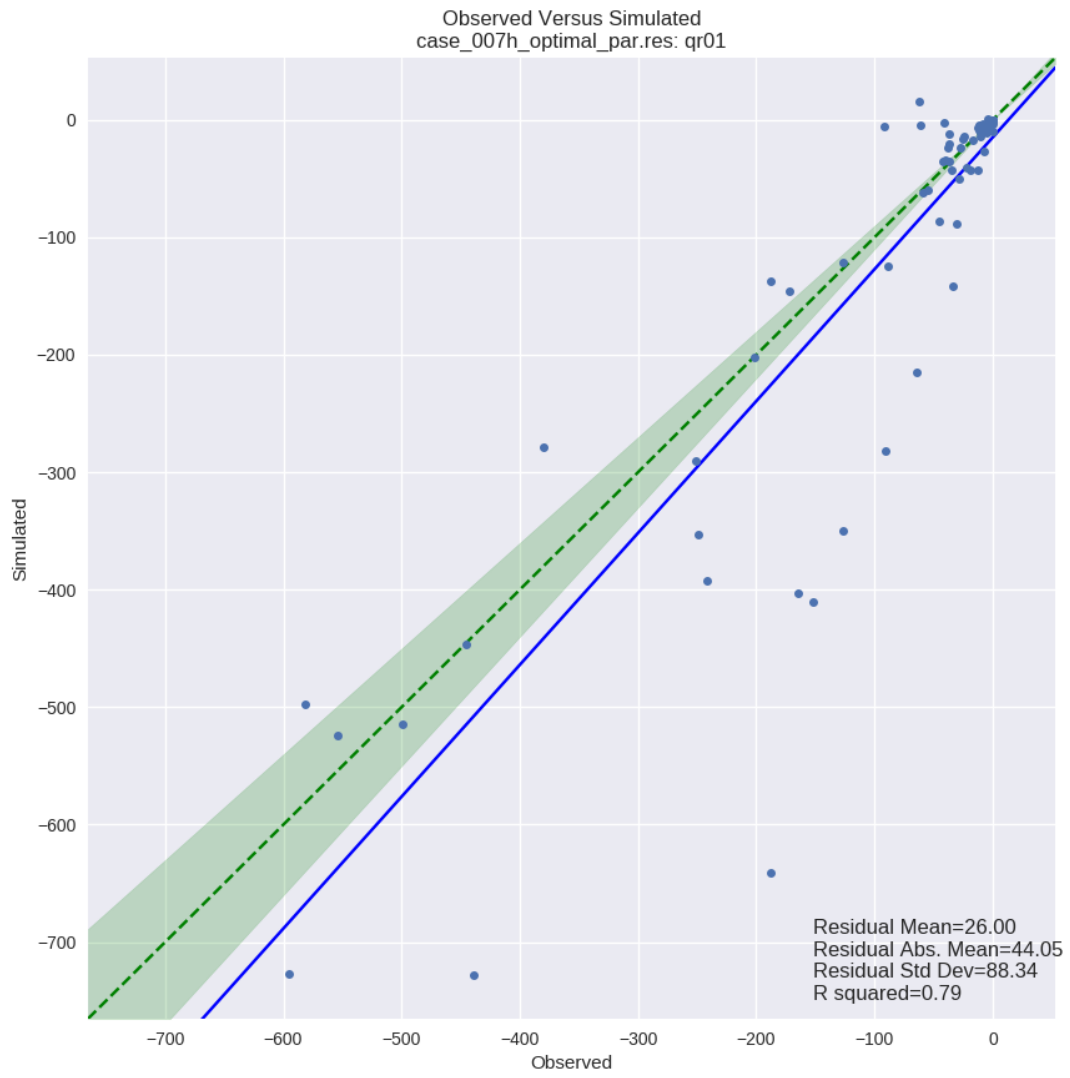


Figure 4-53. Estimated versus Simulated Baseflow Pickups (cfs), 2001

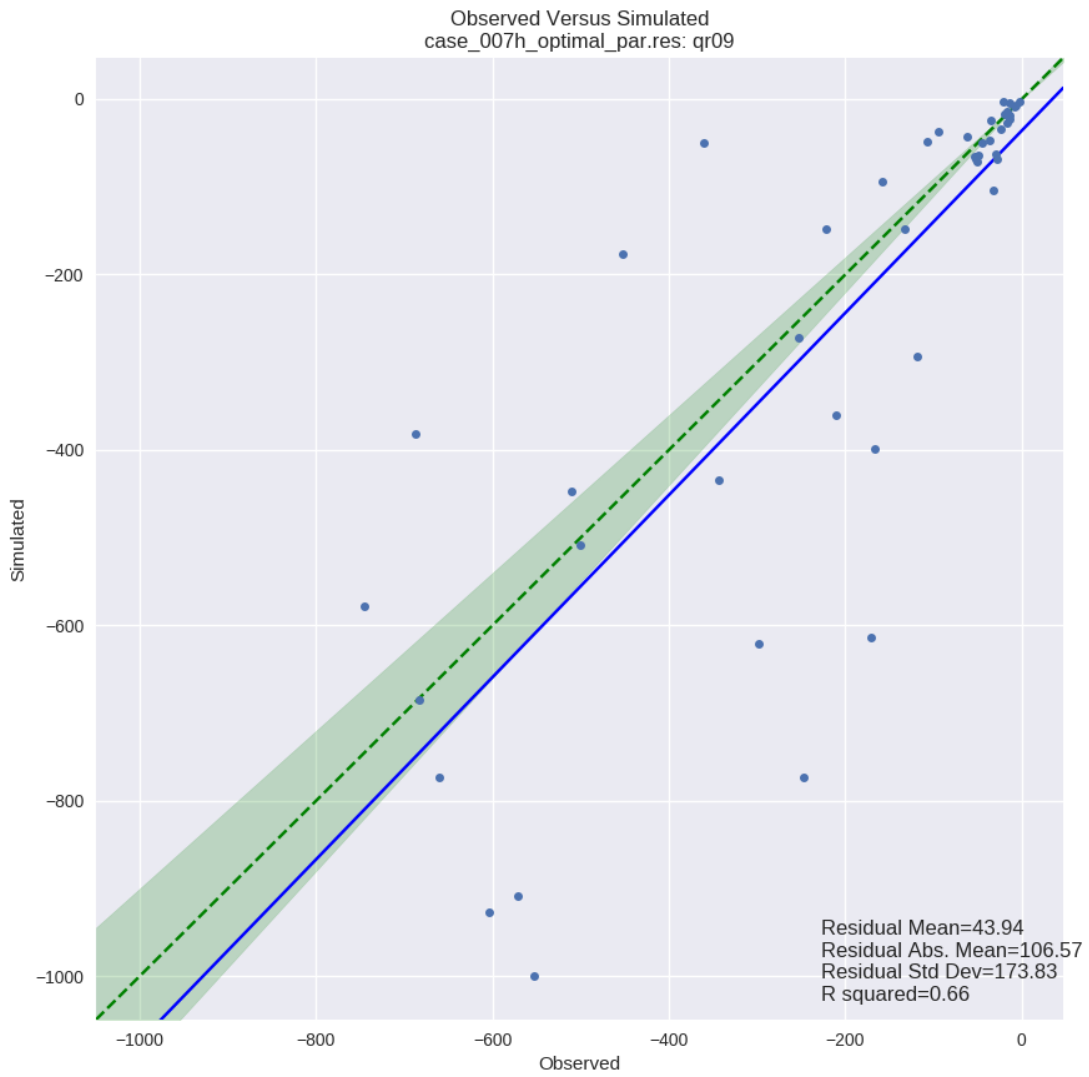


Figure 4-54. Estimated versus Simulated Baseflow Pickups (cfs), 2009

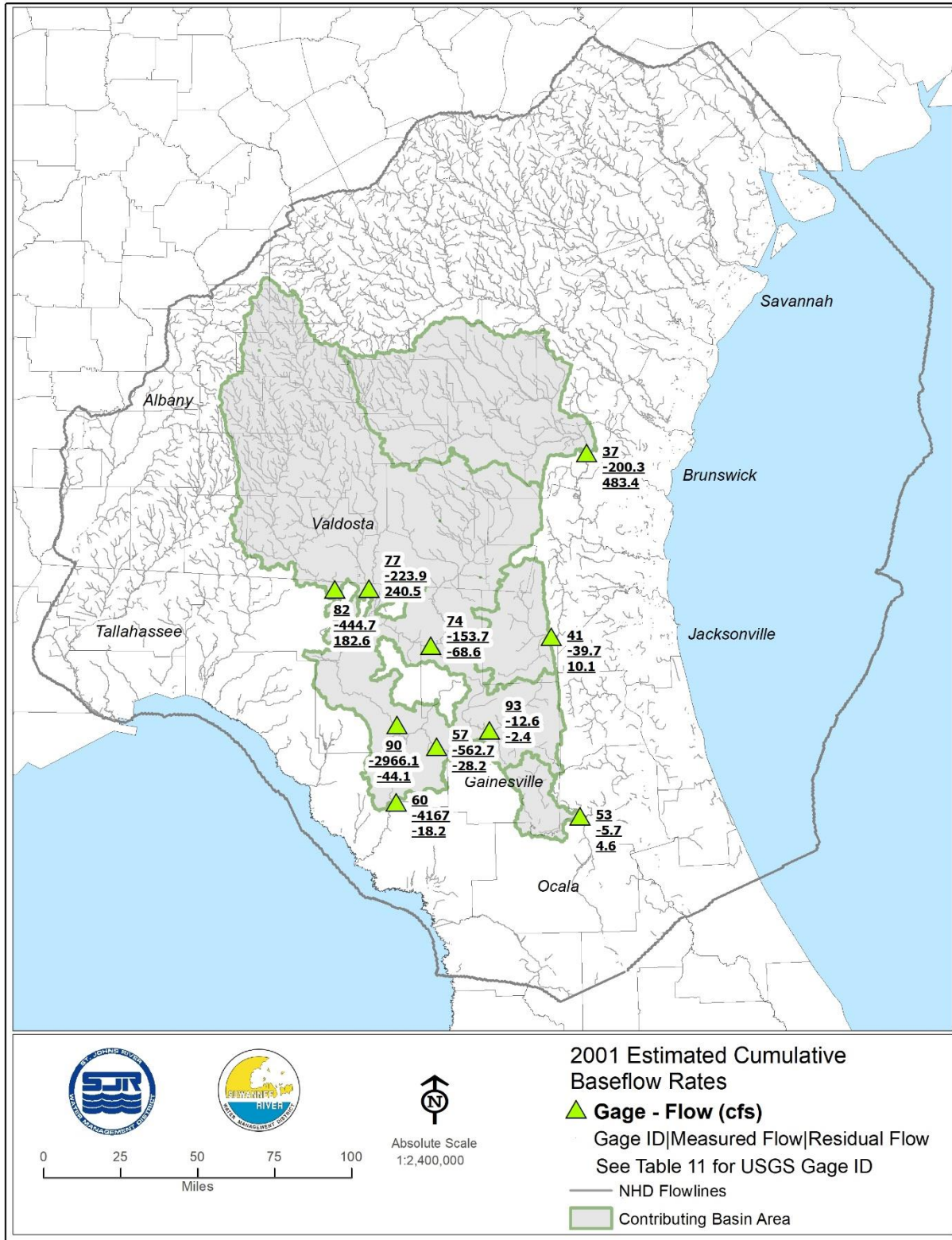


Figure 4-55. Cumulative Baseflow Residuals (cfs), 2001

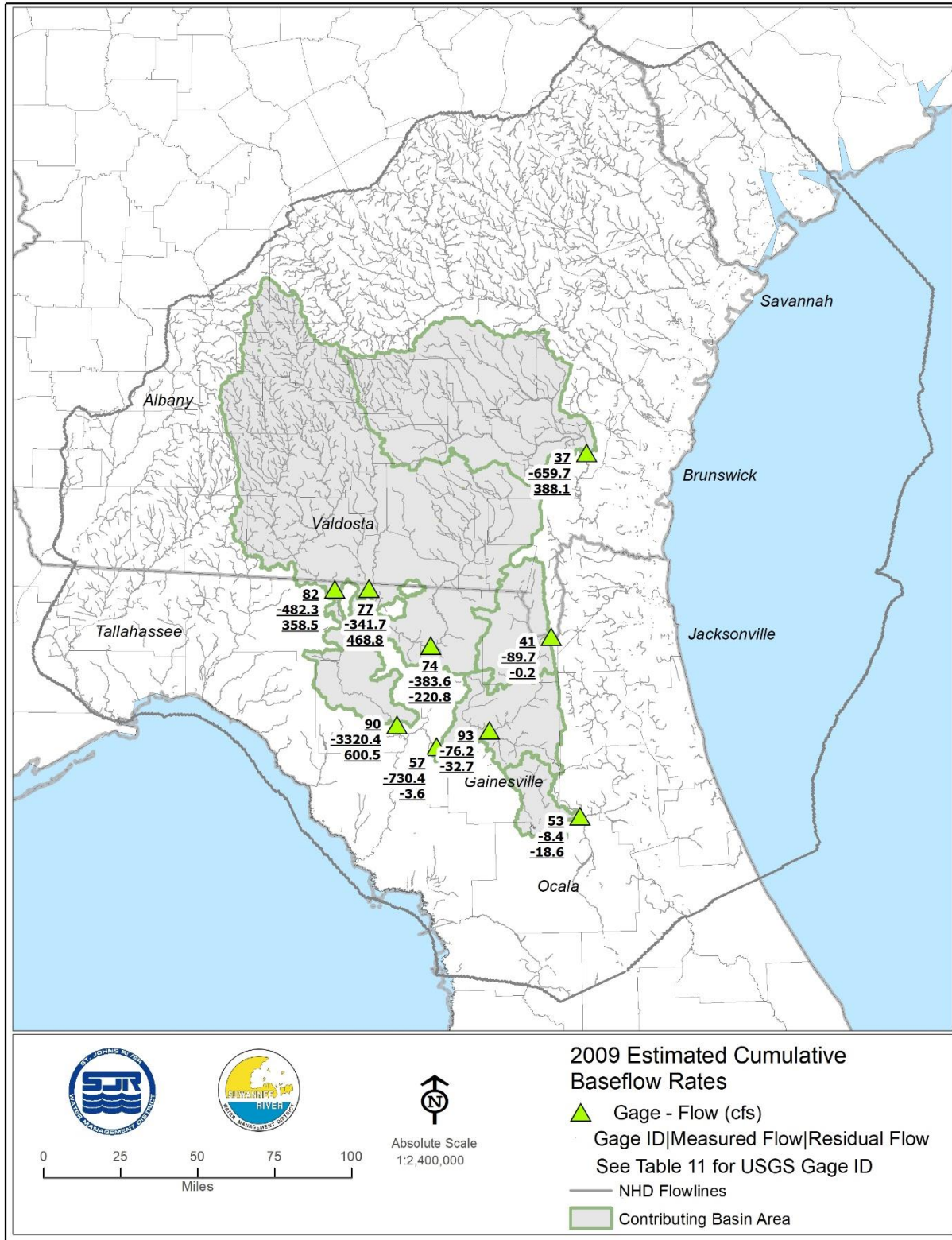


Figure 4-56. Estimated vs. Simulated Cumulative Baseflows (cfs), 2009

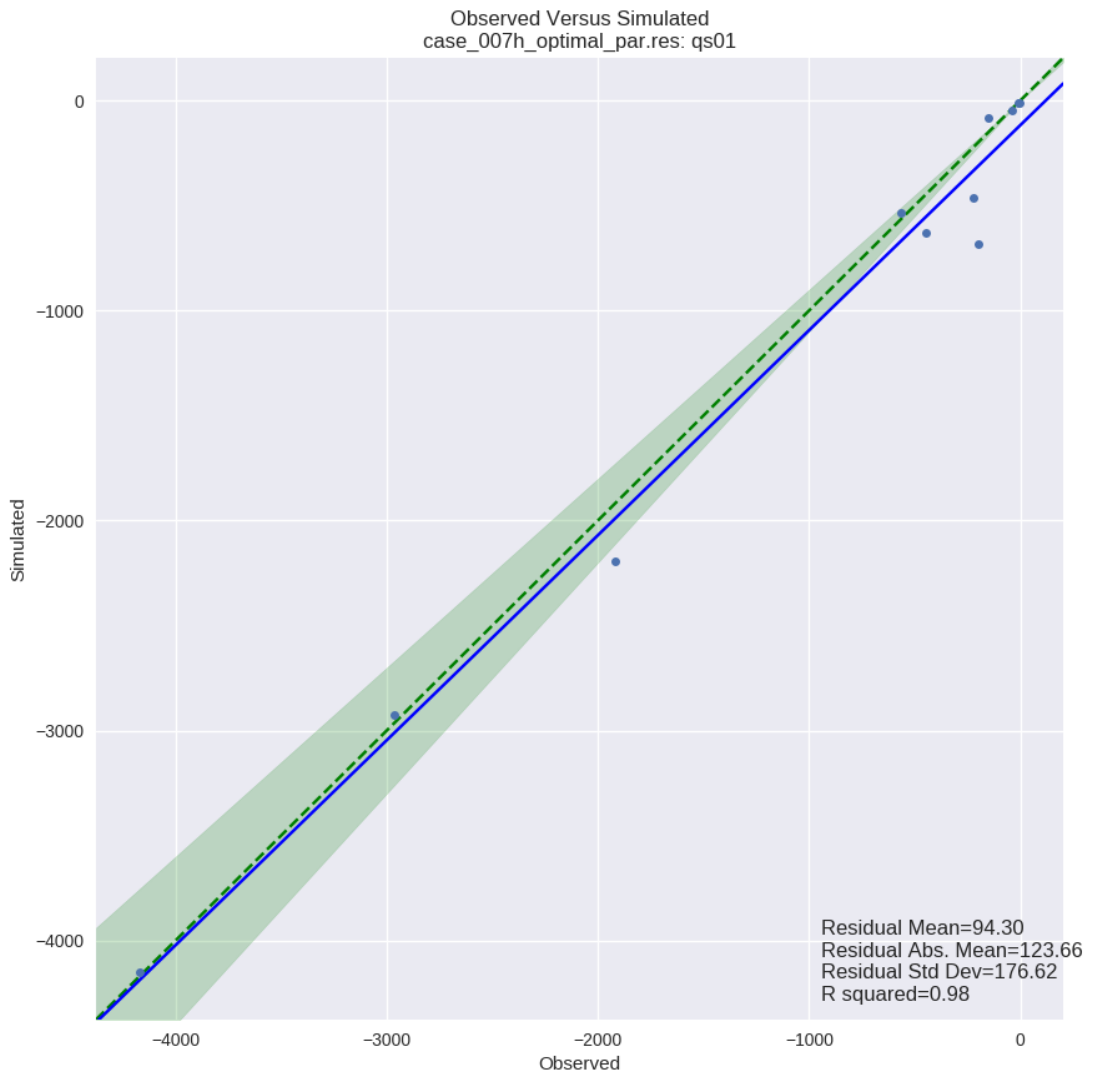


Figure 4-57. Estimated vs. Simulated Cumulative Baseflows (cfs), 2001

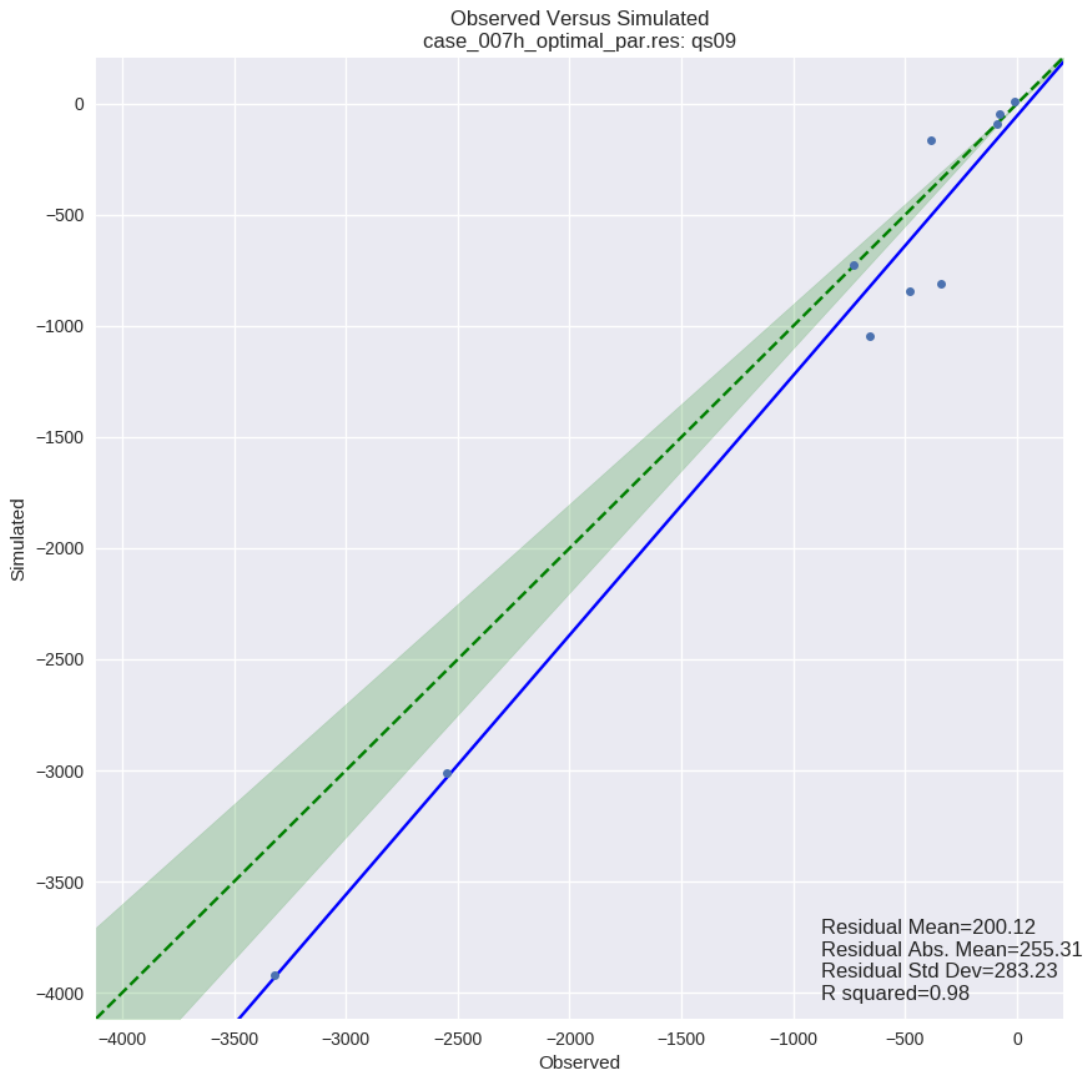


Figure 4-58. Estimated Cumulative Baseflow Residuals (cfs), 2009

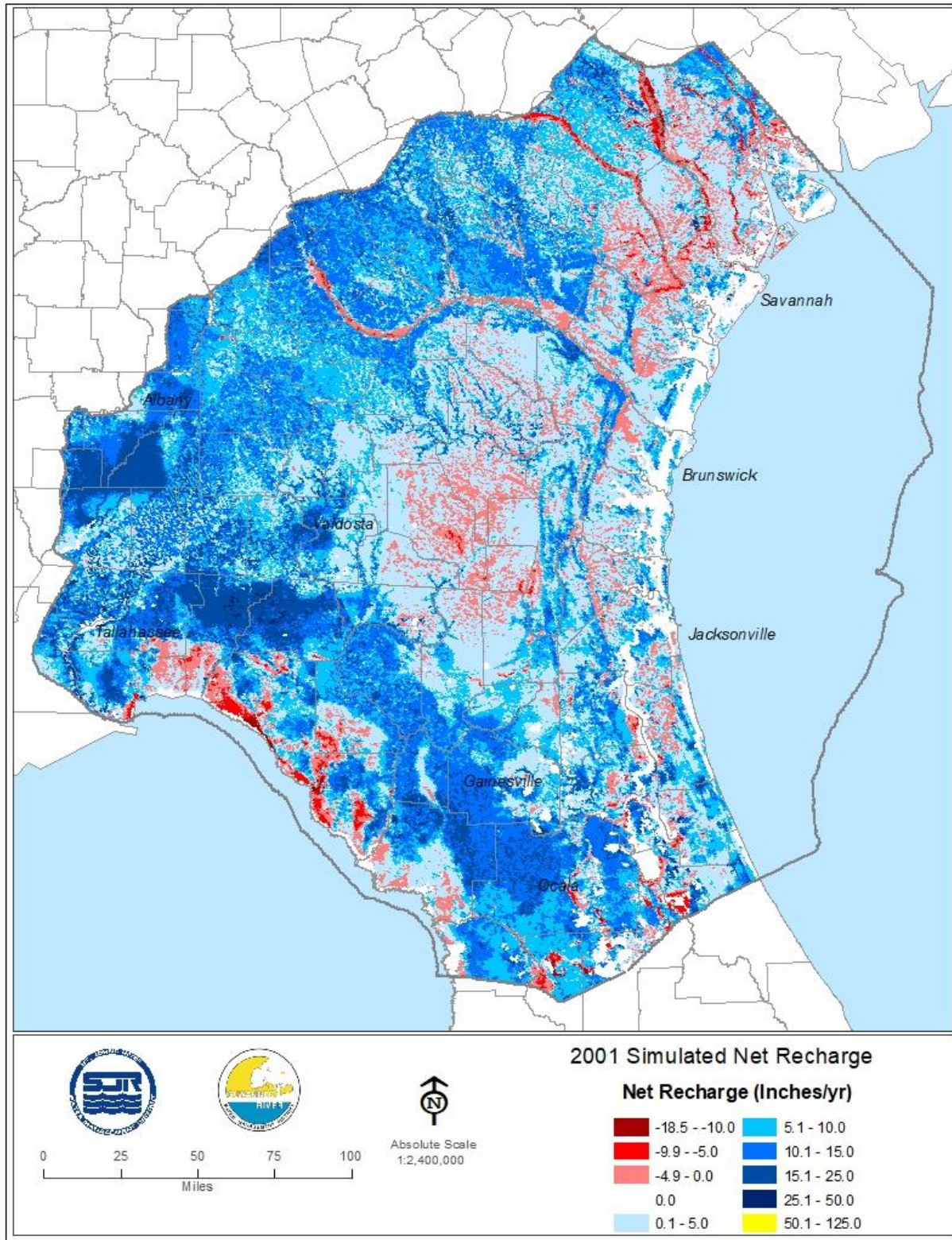


Figure 4-59. Simulated Net Recharge Rates (Inches/Year), 2001

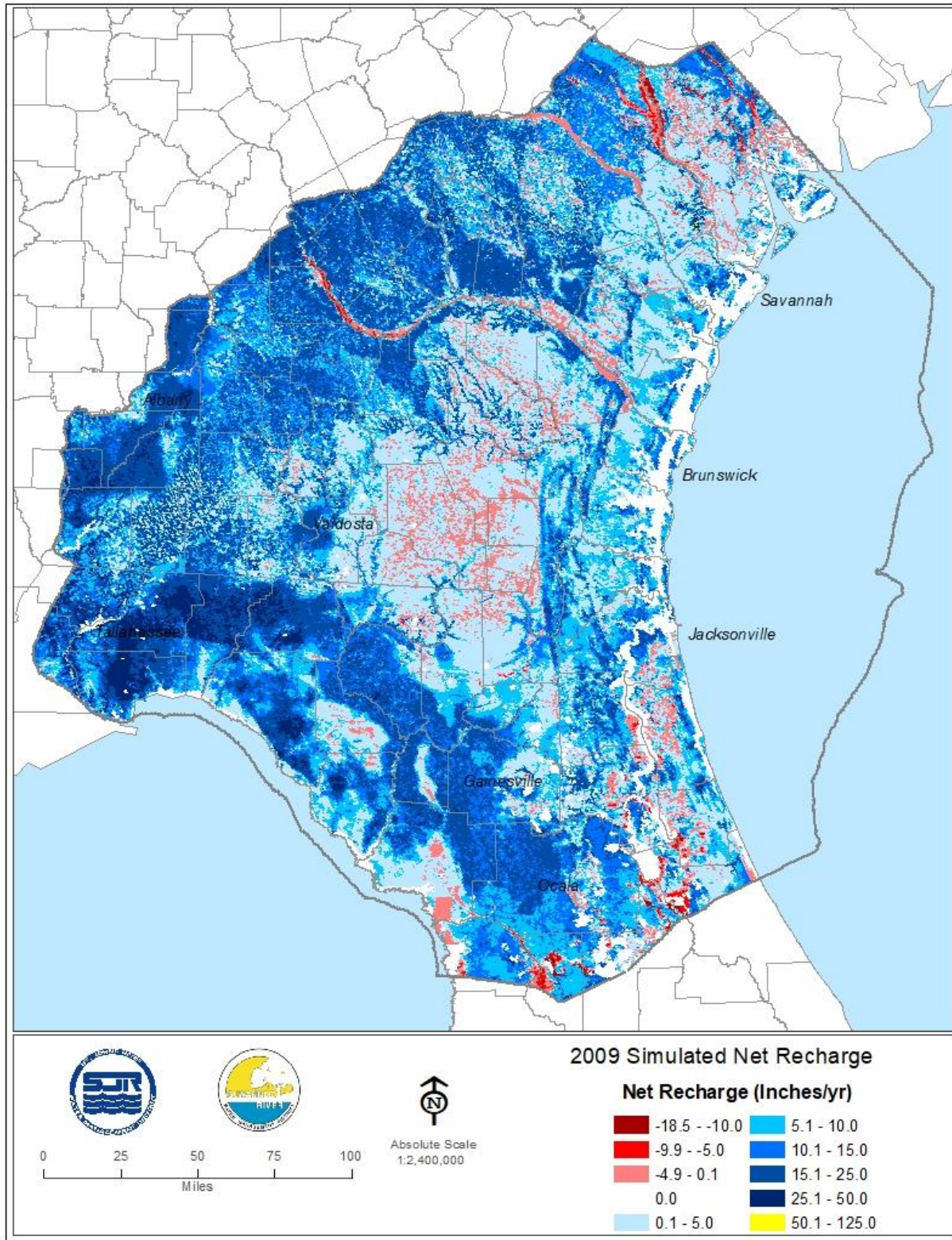


Figure 4-60. Simulated Net Recharge Rates (Inches/Year), 2009

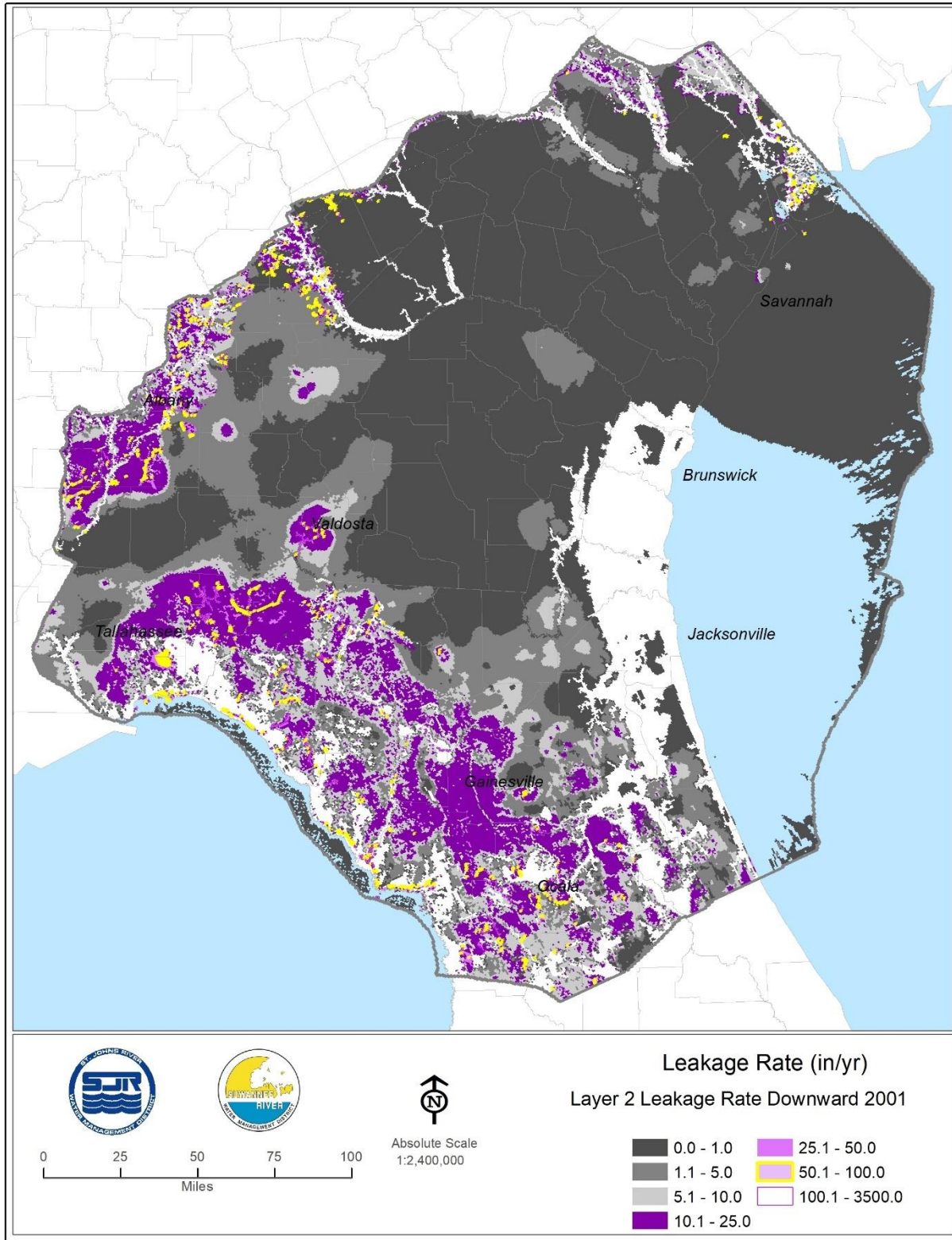


Figure 4-61. Flow Through Lower Face, Layer 2, 2001 (Downward Leakage Rate, Layer 2 to 3, Inches/Year)

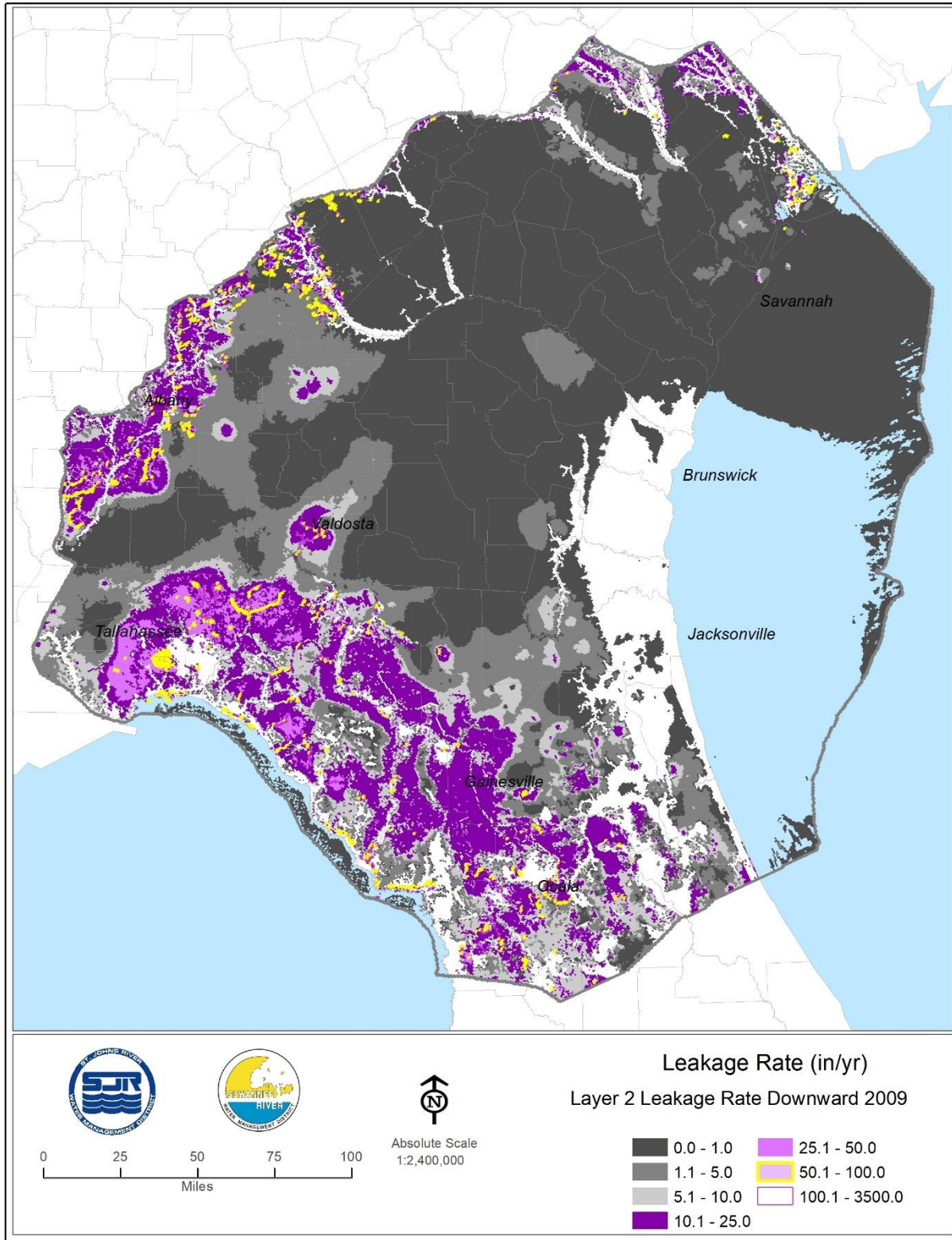


Figure 4-62. Flow Through Lower Face, Layer 2, 2009 (Downward Leakage Rate, Layer 2 to 3, Inches/Year)

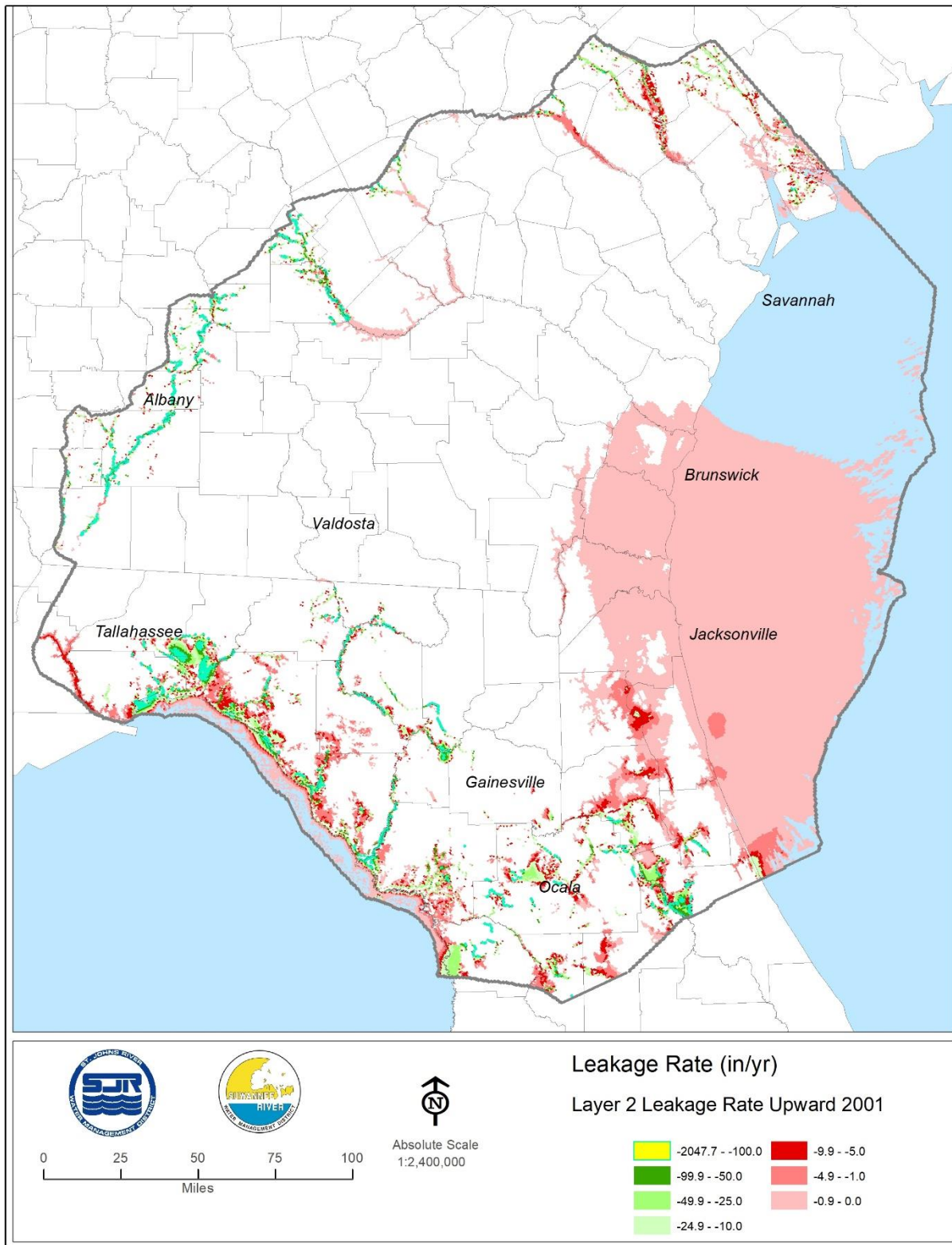


Figure 4-63. Flow Through Lower Face, Layer 2, 2001 (Upward Leakage Rate, Layer 3 to 2, Inches/Year)

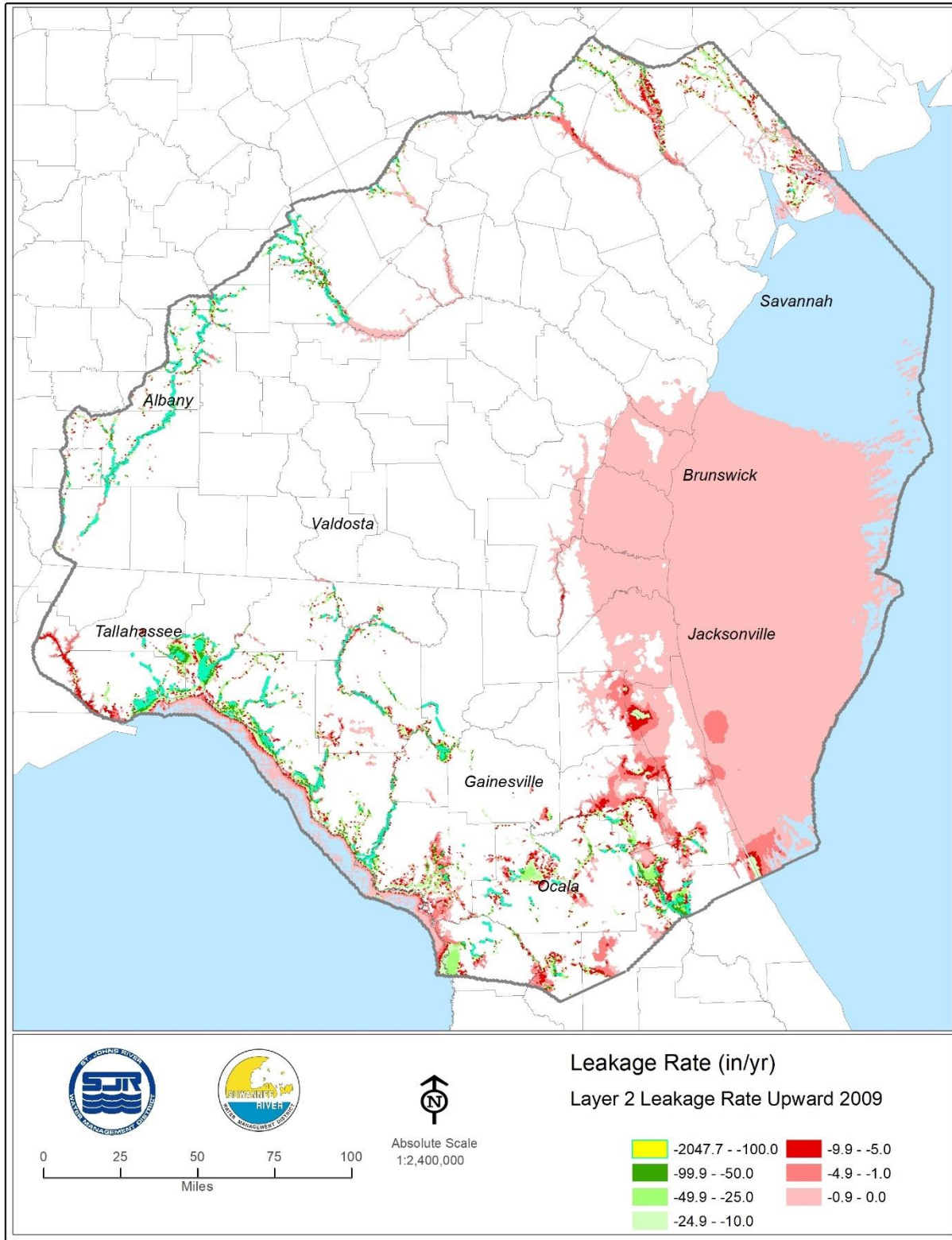


Figure 4-64. Flow Through Lower Face, Layer 2, 2009 (Upward Leakage Rate, Layer 3 to 2, Inches/Year)

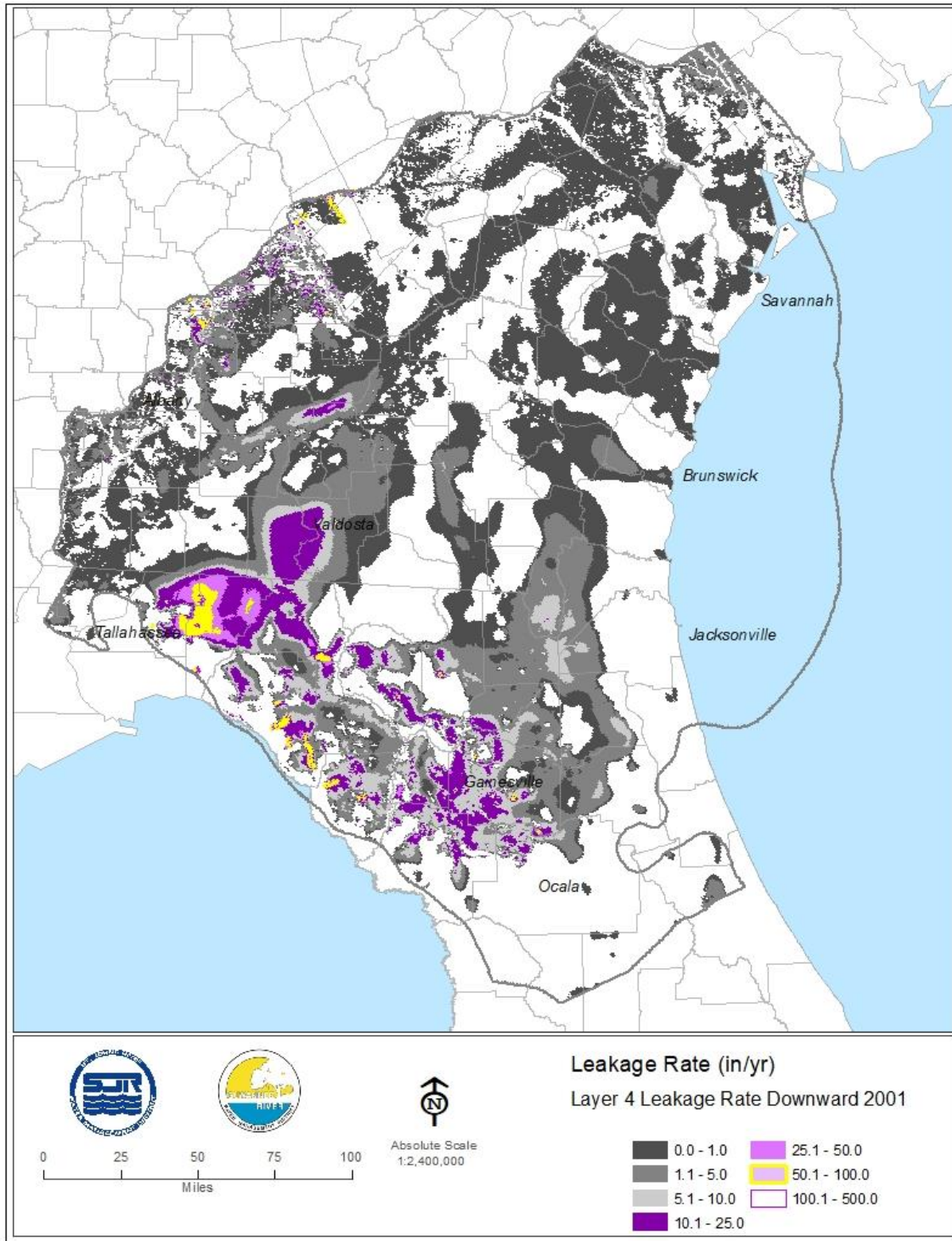


Figure 4-65. Flow Through Lower Face, Layer 4, 2001 (Downward Leakage Rate, Layer 4 to 5, Inches/Year)

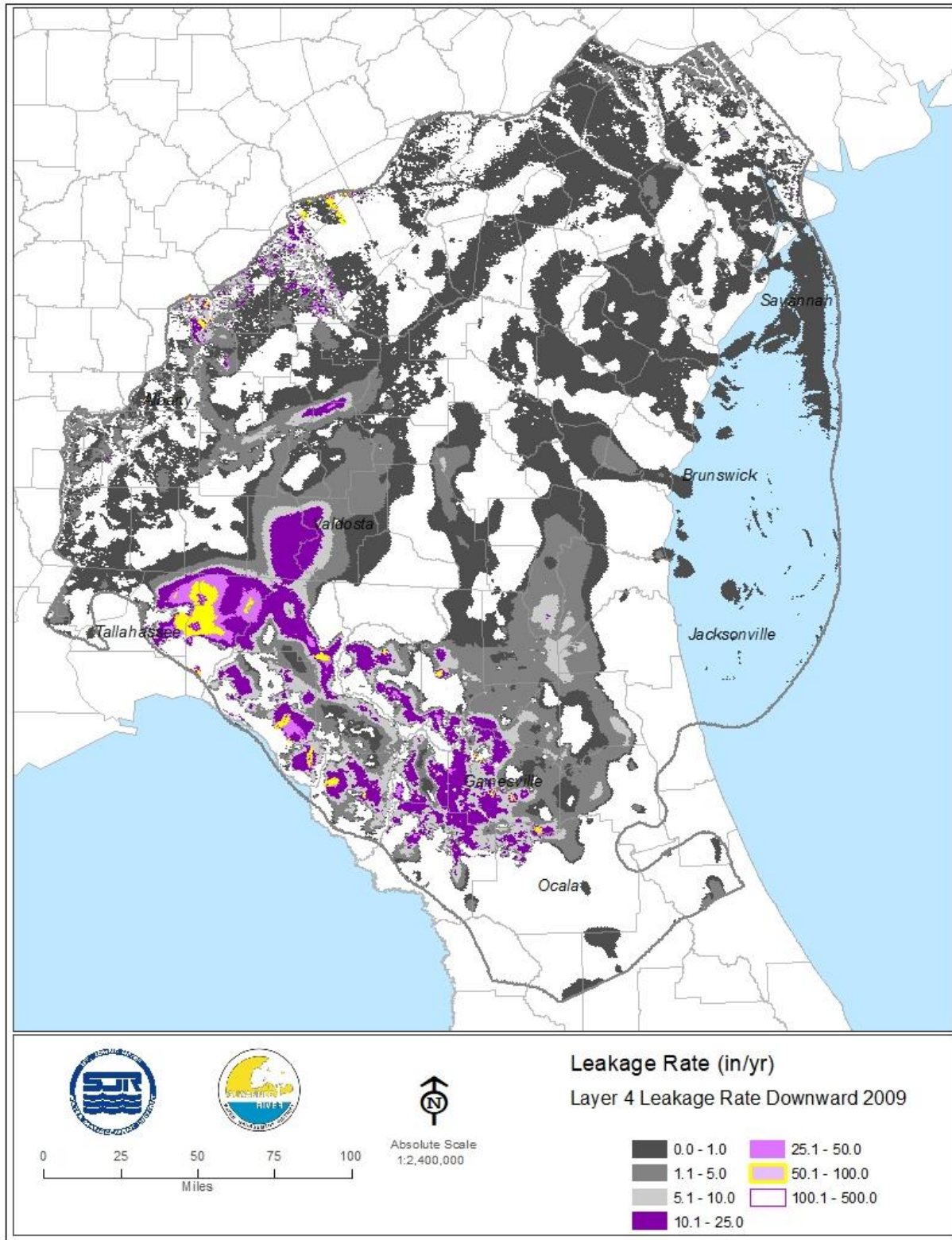


Figure 4-66. Flow Through Lower Face, Layer 4, 2009 (Downward Leakage Rate, Layer 4 to 5, Inches/Year)

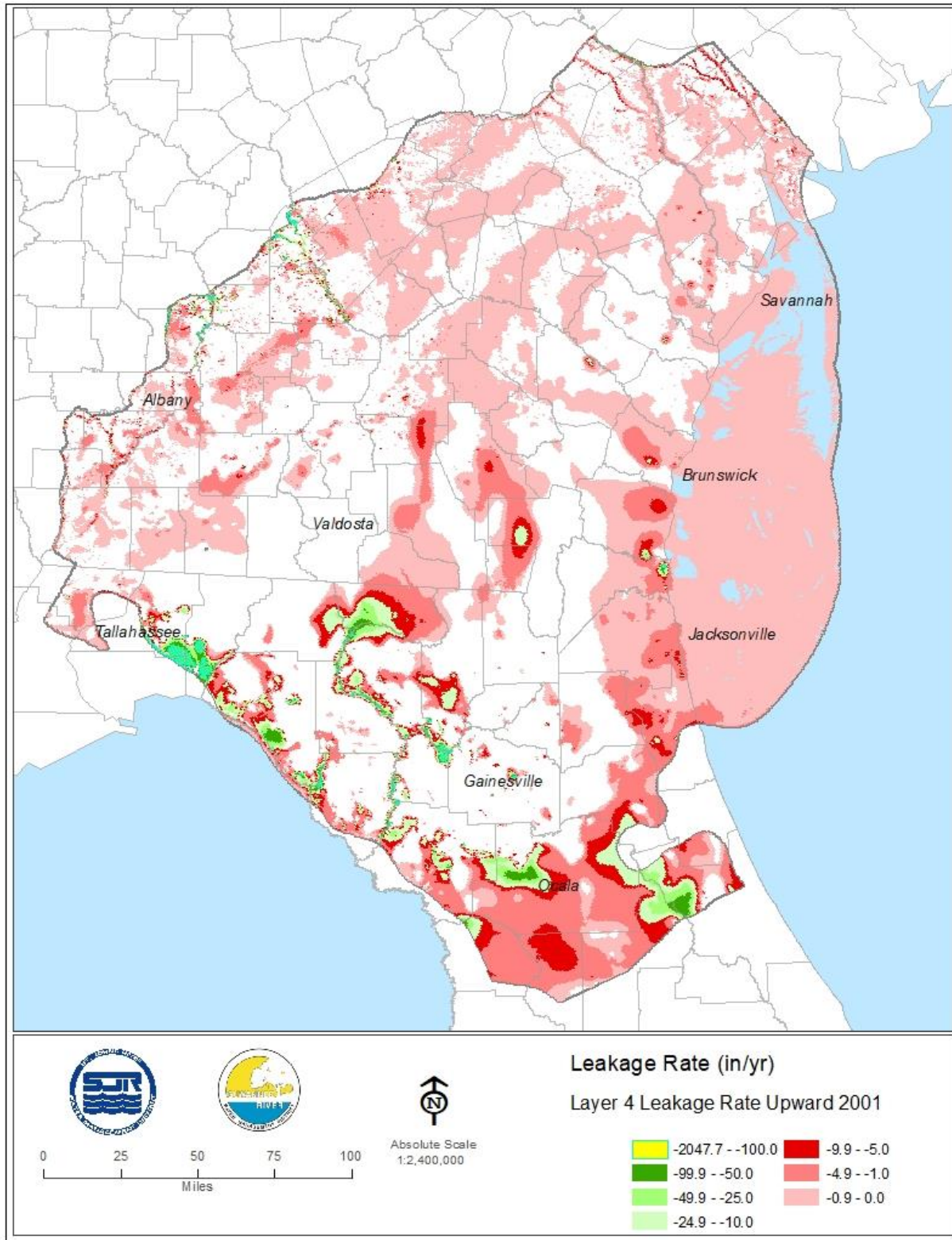


Figure 4-67. Flow Through Lower Face, Layer 4, 2001 (Upward Leakage Rate, Layer 5 to 4, Inches/Year)

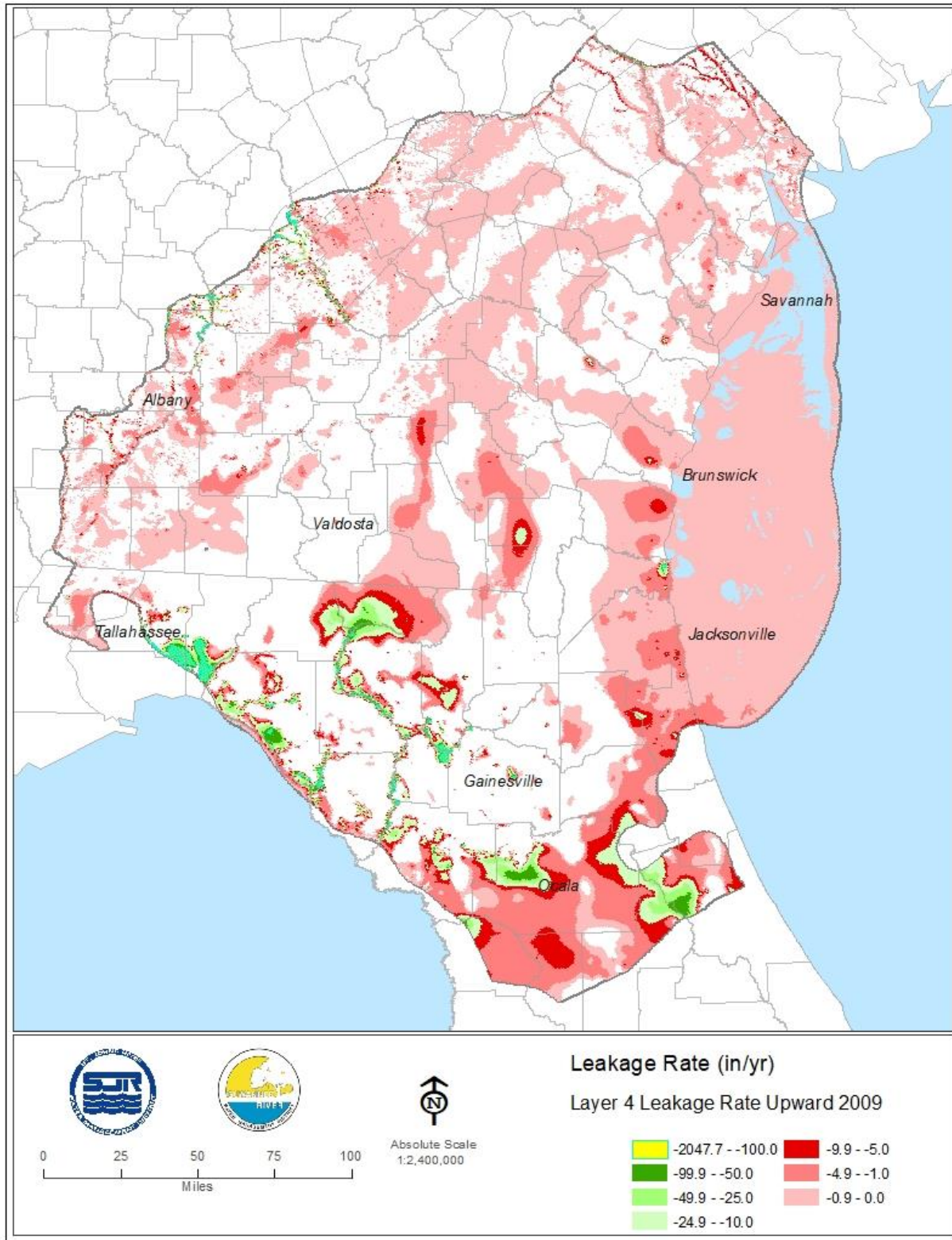


Figure 4-68. Flow Through Lower Face, Layer 4, 2009 (Upward Leakage Rate, Layer 5 to 4, Inches/Year)

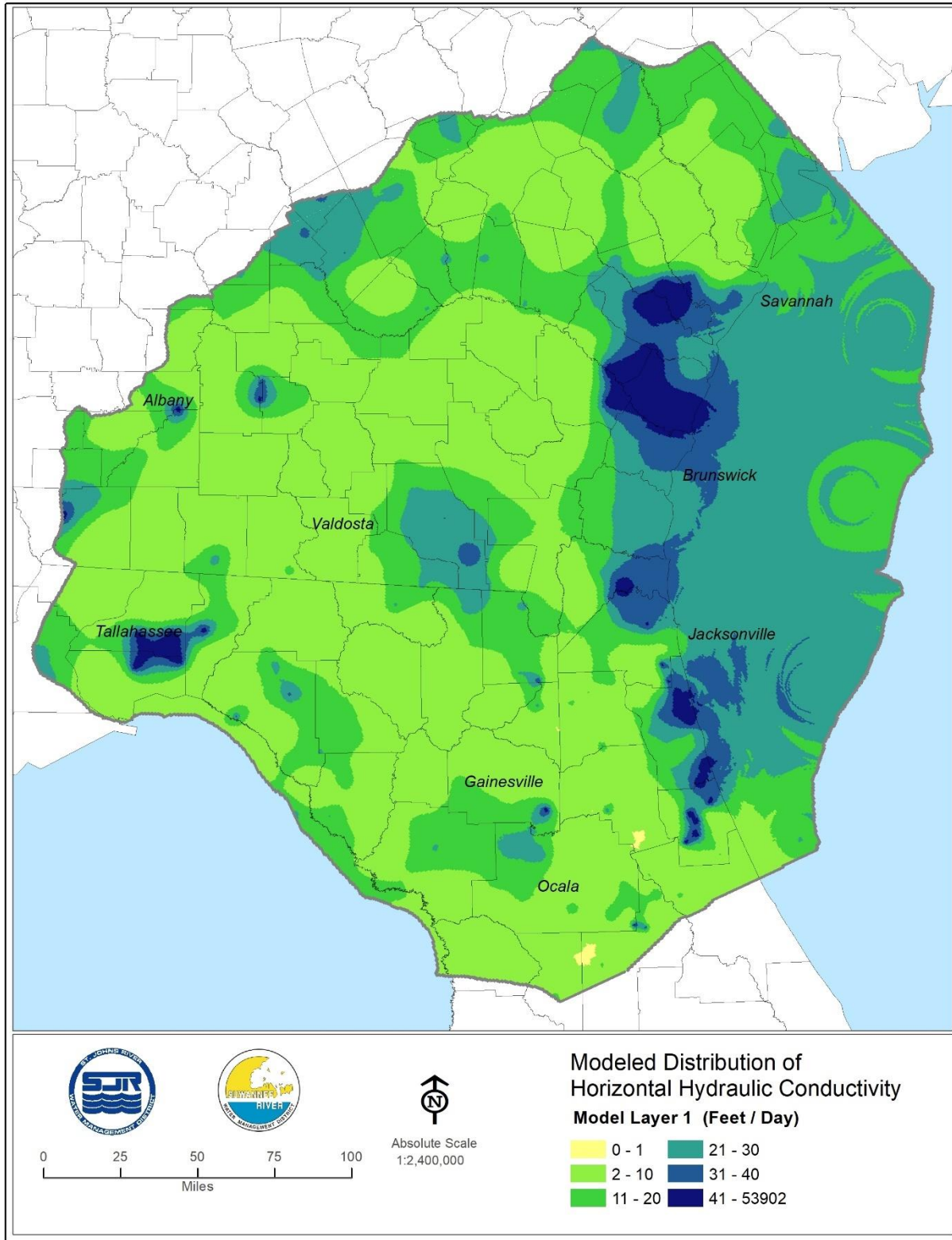


Figure 4-69. Modeled Distribution of Horizontal Hydraulic Conductivity (Feet/Day), Model Layer 1

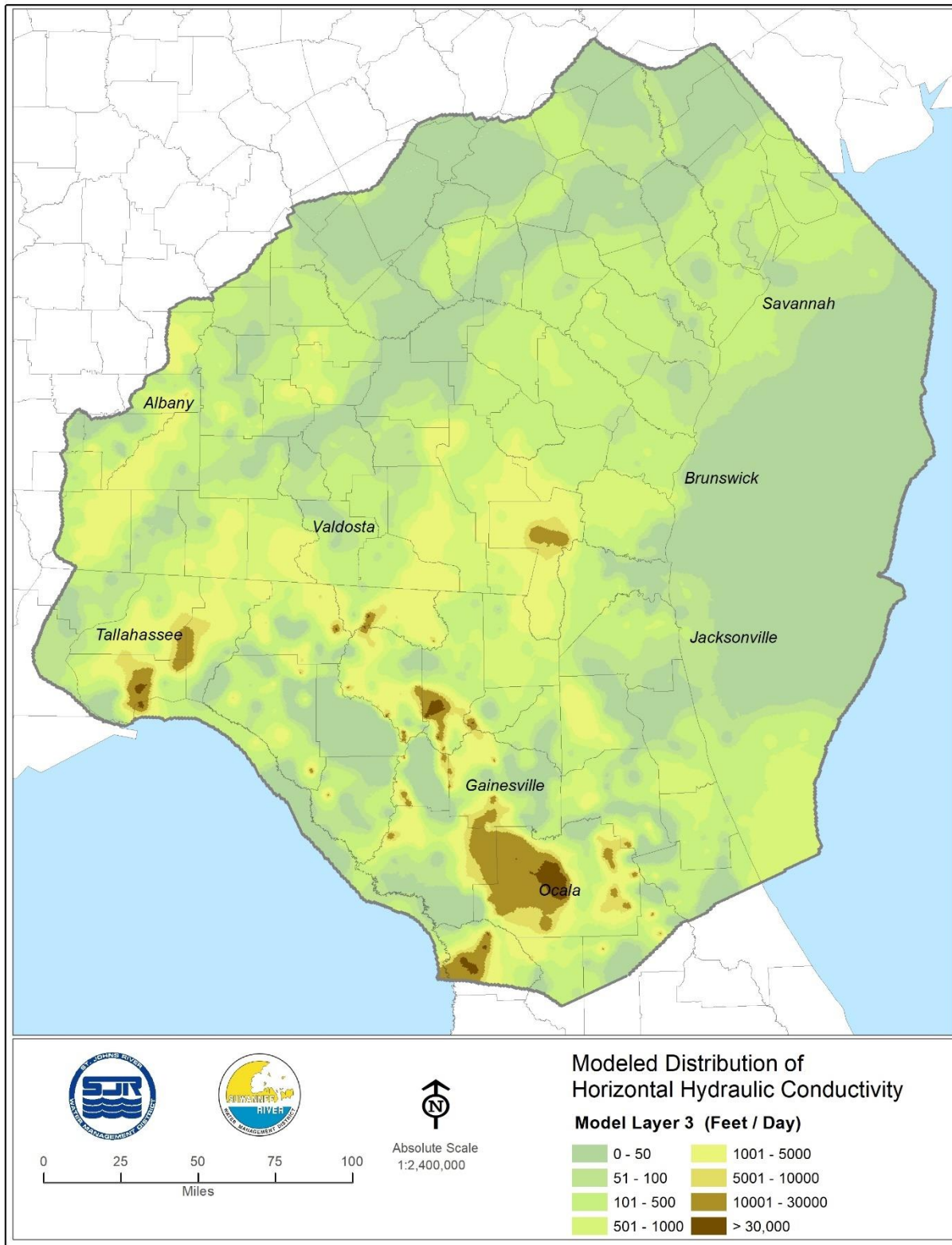


Figure 4-70. Modeled Distribution of Horizontal Hydraulic Conductivity (Feet/Day), Model Layer 3

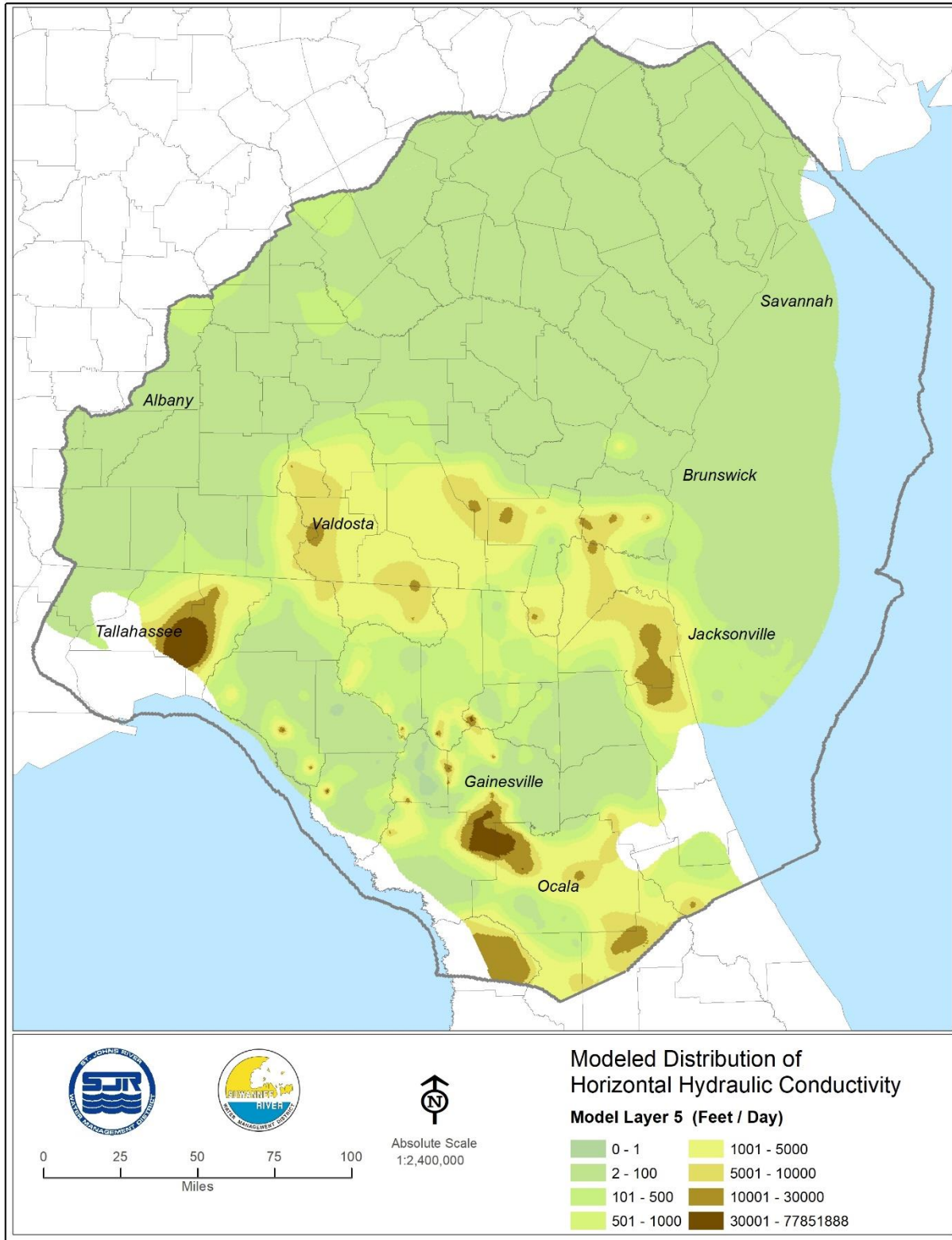


Figure 4-71. Modeled Distribution of Horizontal Hydraulic Conductivity (Feet/Day), Model Layer 5

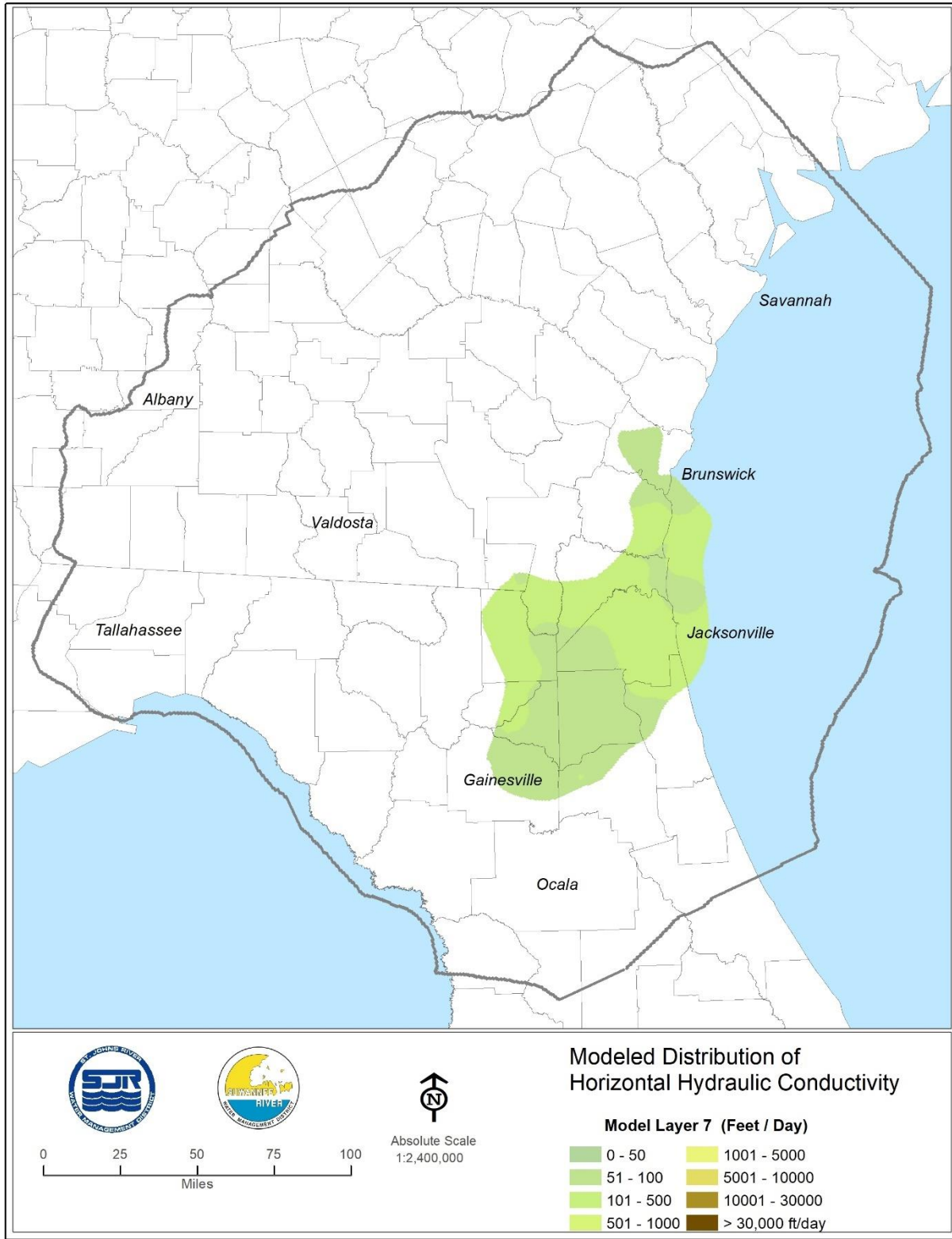


Figure 4-72. Modeled Distribution of Horizontal Hydraulic Conductivity (Feet/Day), Model Layer 7

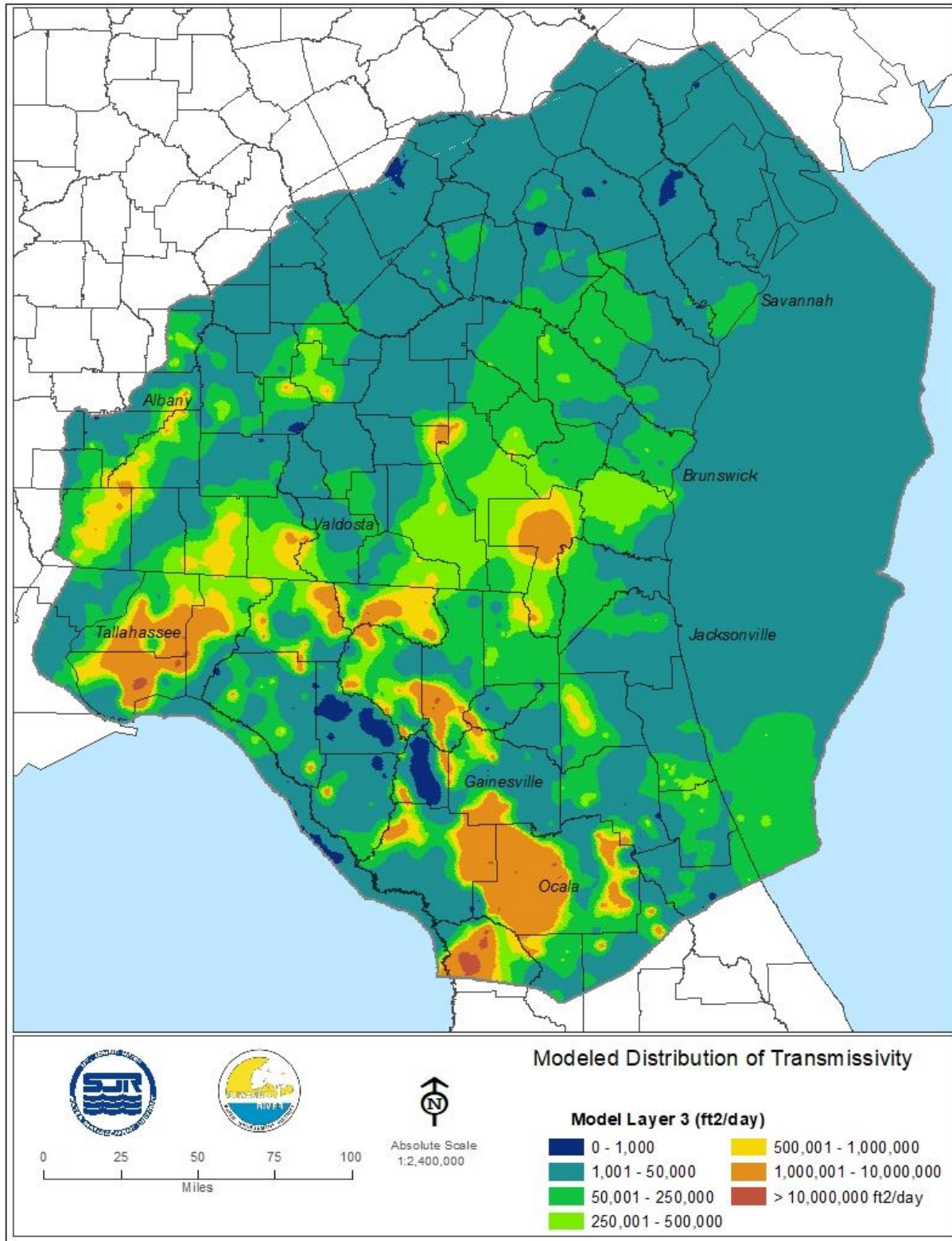


Figure 4-73. Spatial Distribution of Transmissivity (Feet Squared/Day), Model Layer 3

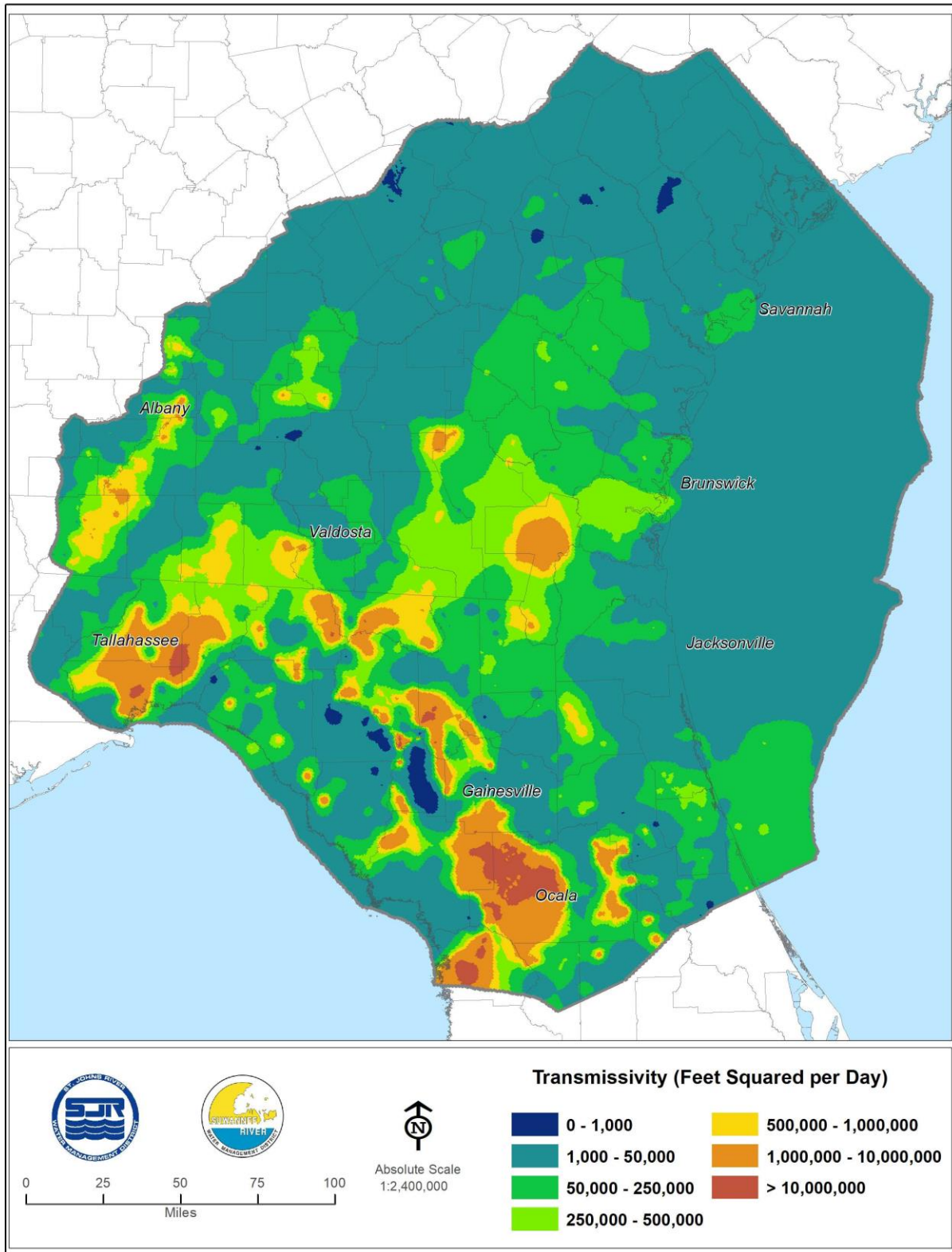


Figure 4-74. Spatial Distribution of Transmissivity (Feet Squared per Day), Upper Floridan Aquifer – Layers 1-3 unconfined region, Layer 1 confined region

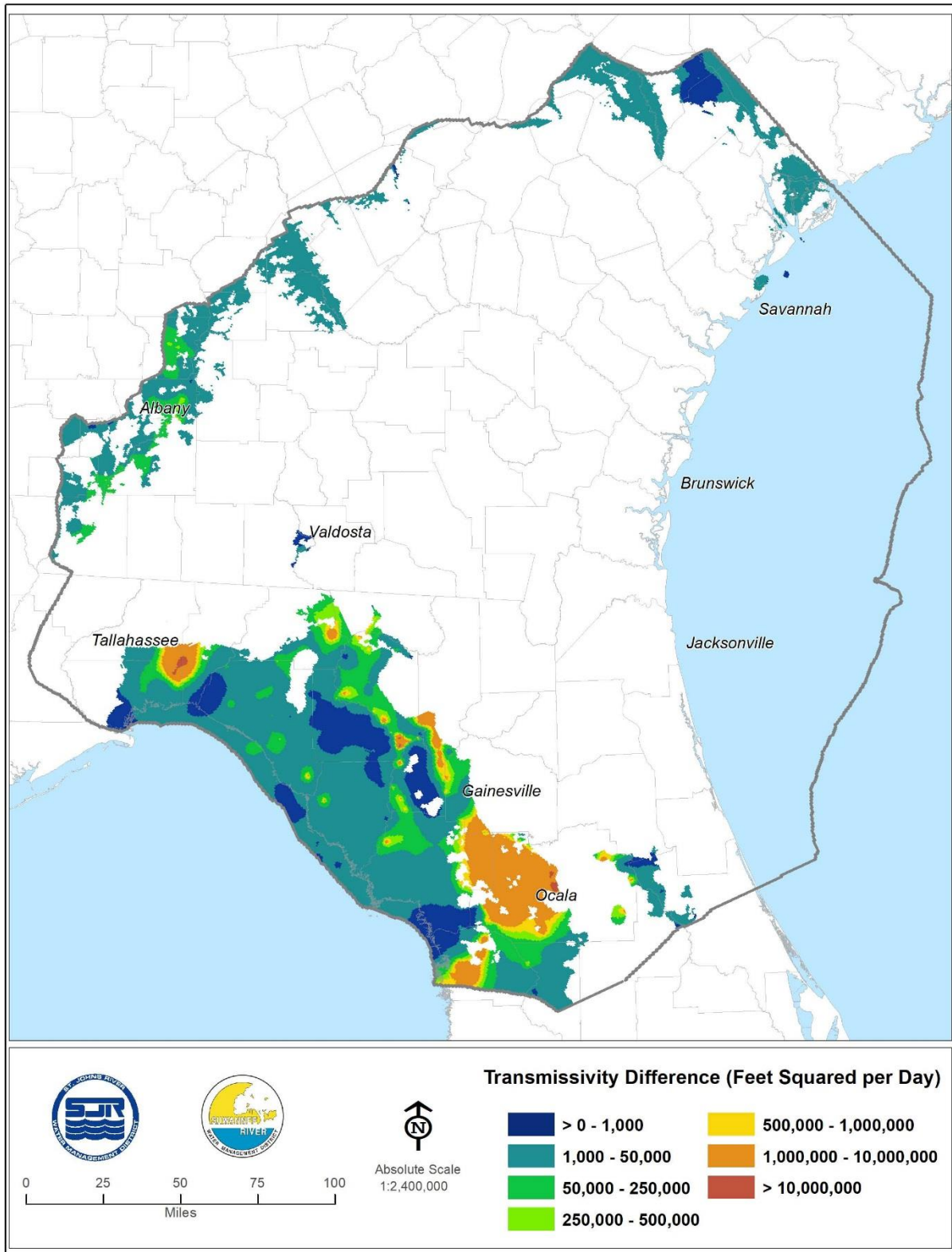


Figure 4-75. Difference in Transmissivity of Layer-3 and Upper-Floridan-Aquifer Transmissivity Distributions (Feet Squared per Day)

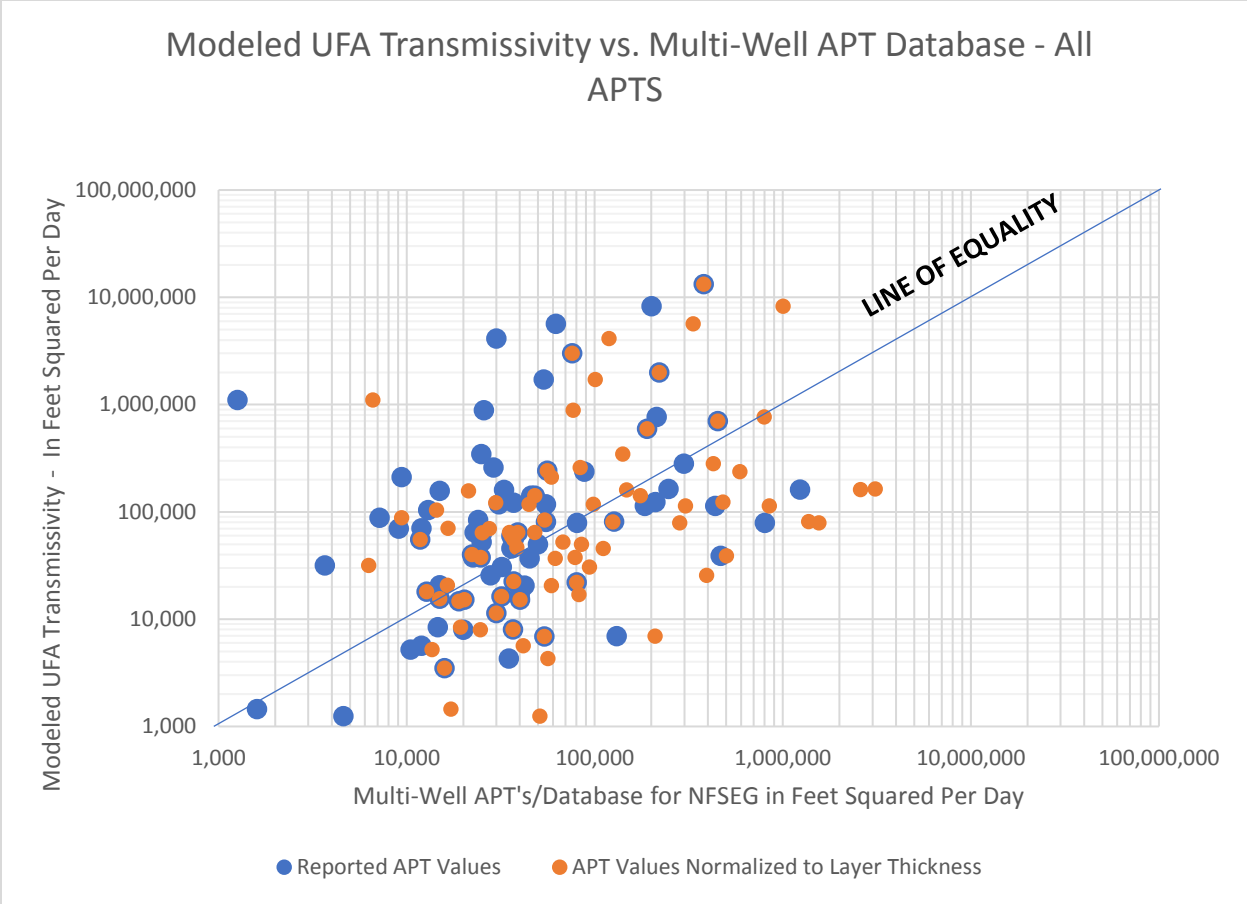


Figure 4-76. Multi-Well-APT-Derived Transmissivity versus Calibration-Derived Transmissivity (Feet Squared per Day), Upper Floridan Aquifer

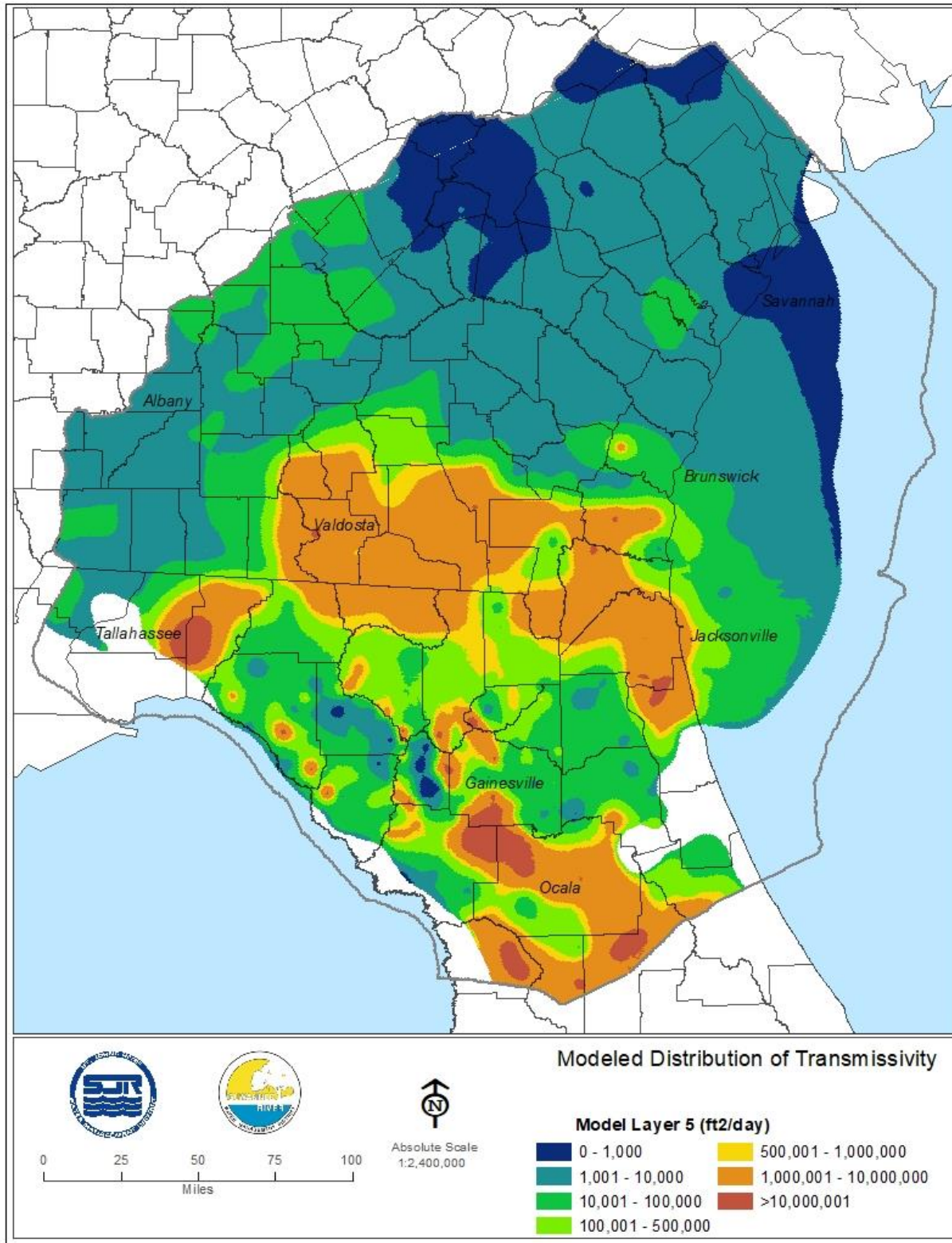


Figure 4-77. Spatial Distribution of Transmissivity (Feet Squared/Day), Model Layer 5

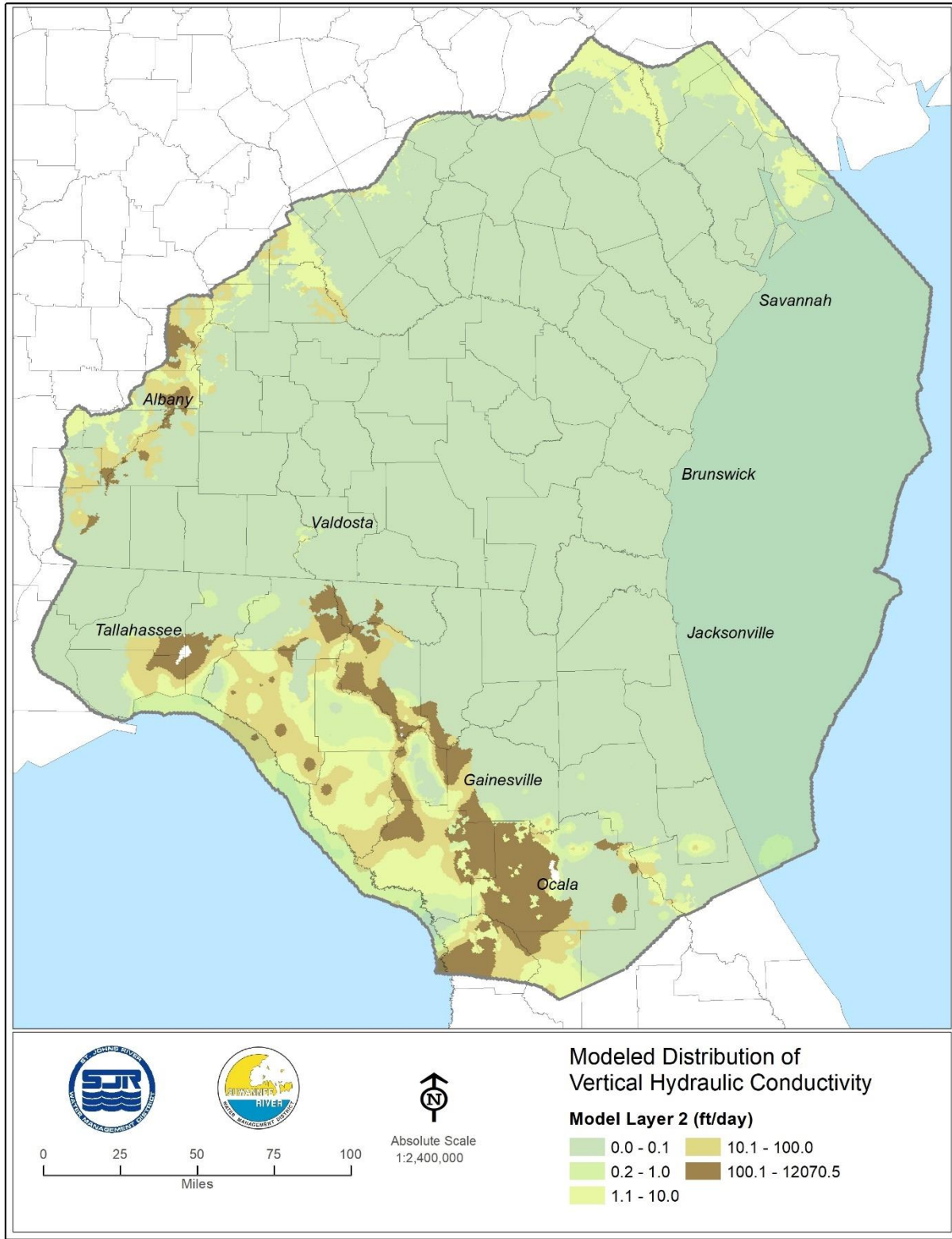


Figure 4-78. Modeled Distribution of Vertical Hydraulic Conductivity (Feet/Day), Model Layer 2

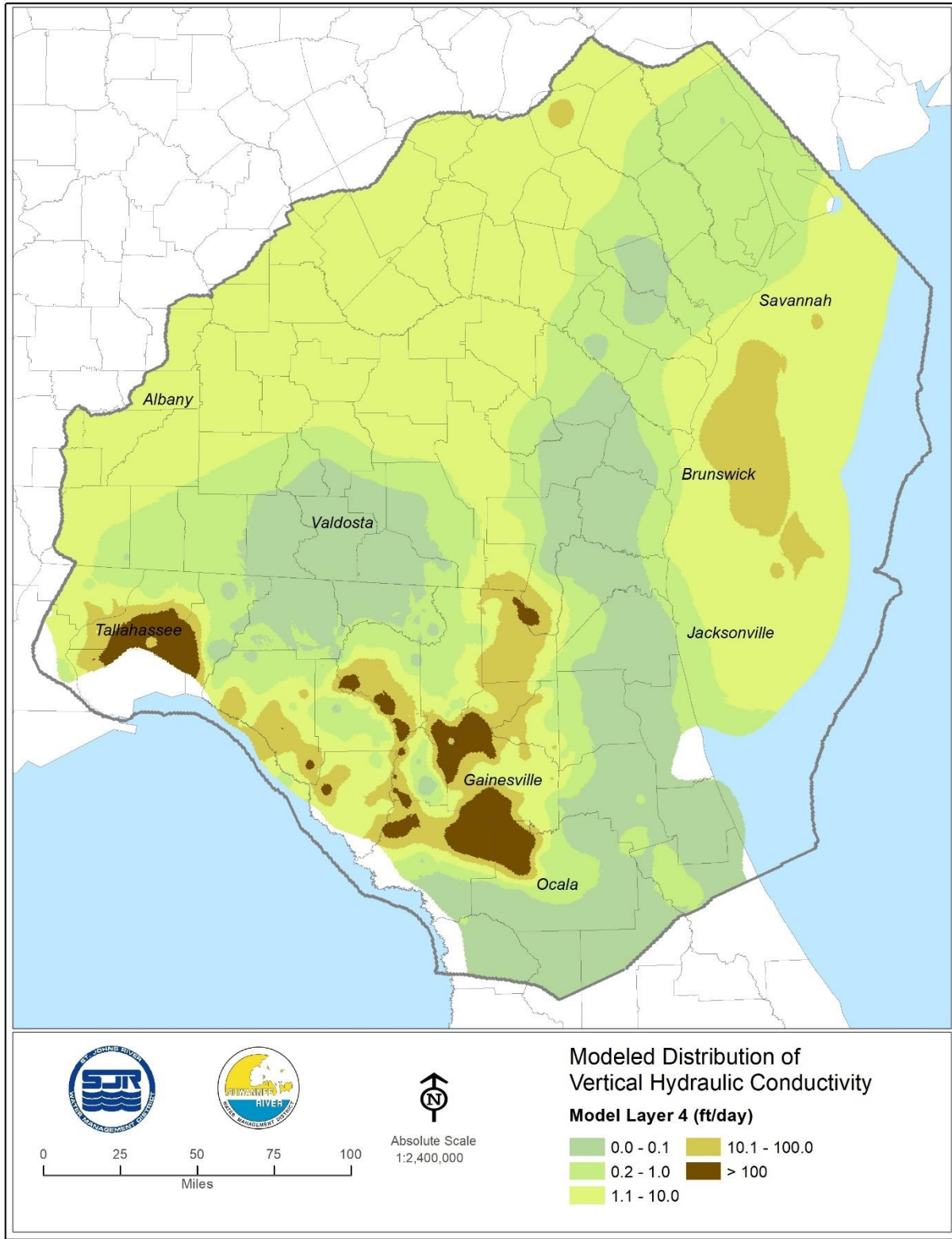


Figure 4-79. Modeled Distribution of Vertical Hydraulic Conductivity (Feet/Day), Model Layer 4

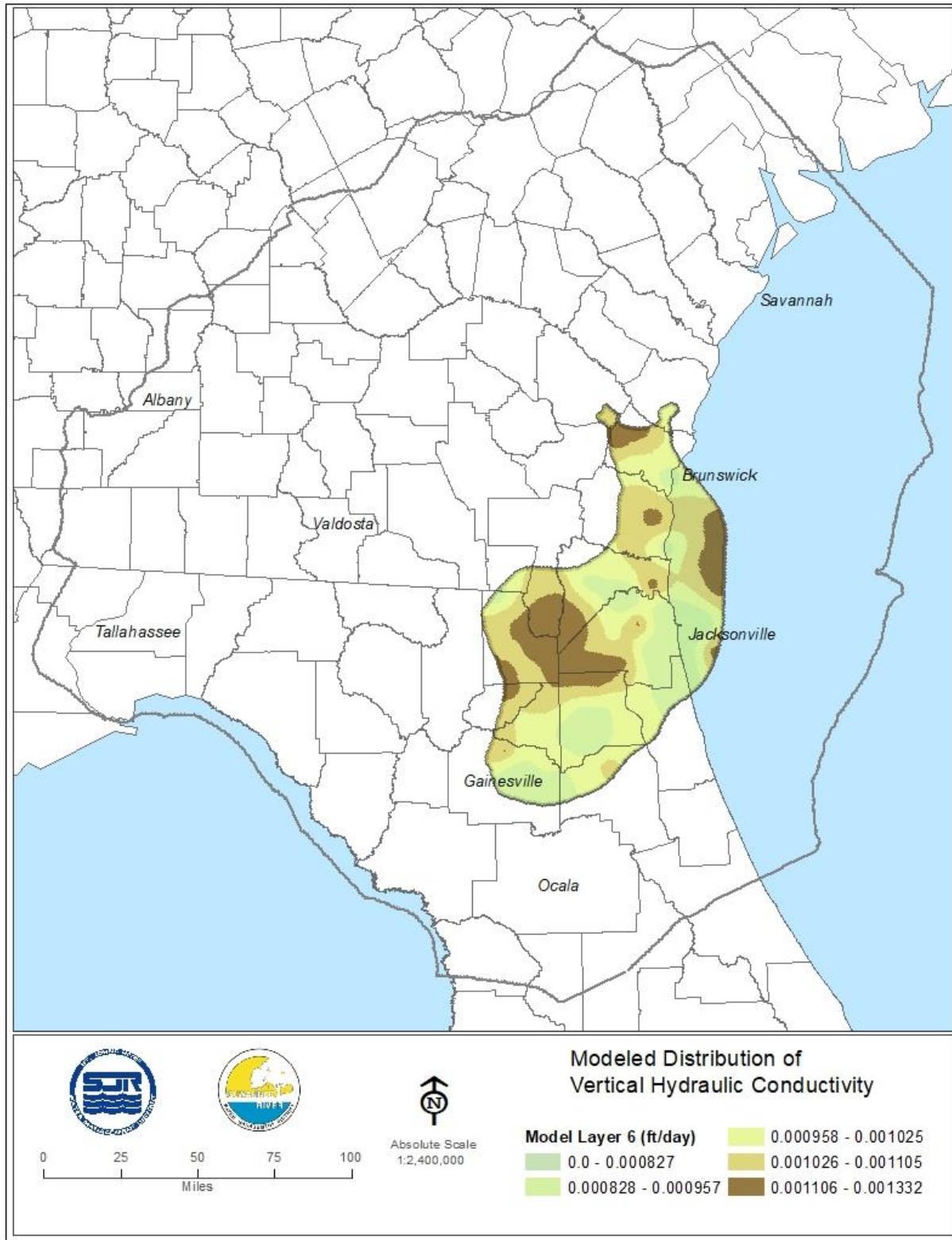


Figure 4-80. Modeled Distribution of Vertical Hydraulic Conductivity (Feet/Day), Model Layer 6

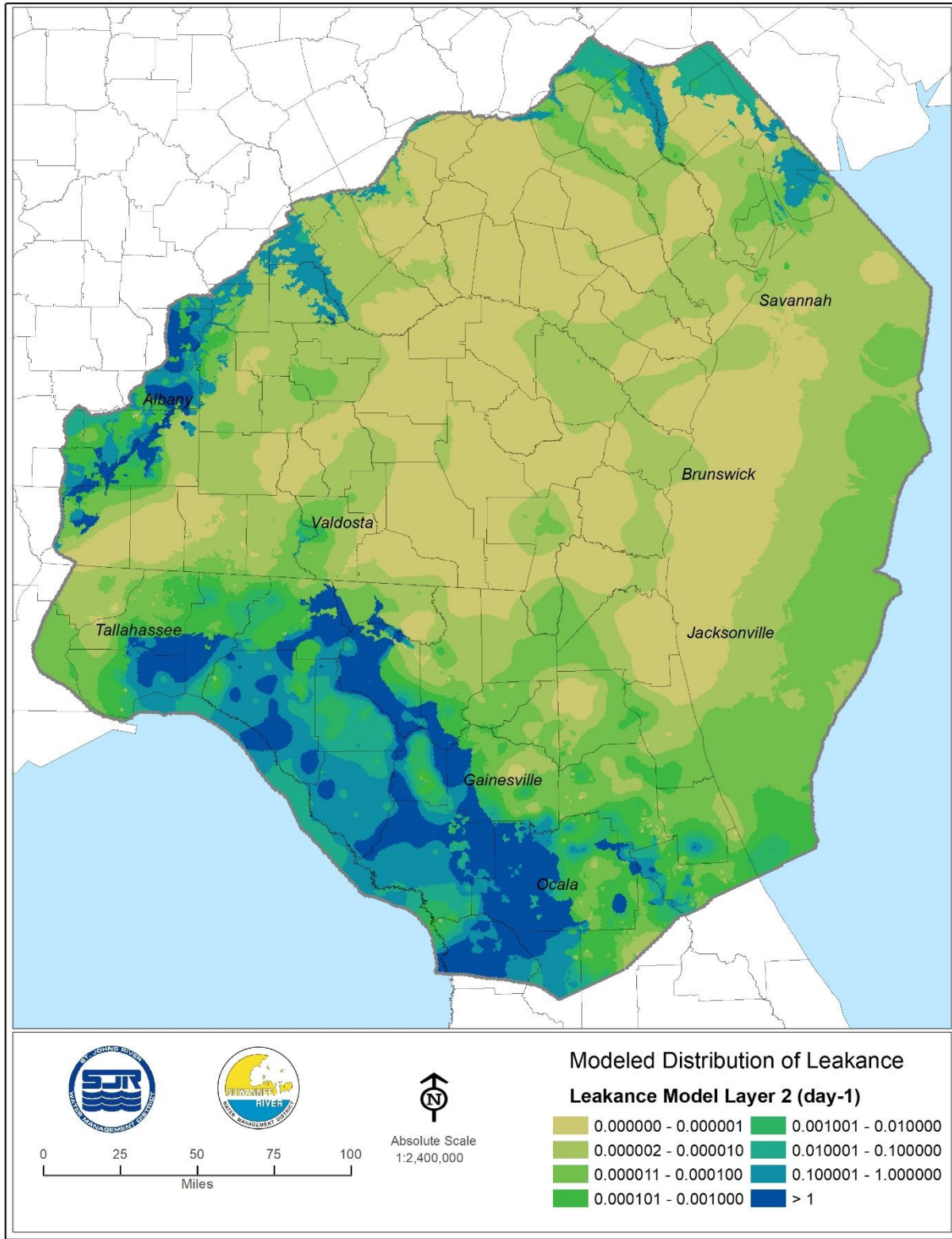


Figure 4-81. Modeled Distribution of Leakance, Model Layer 2

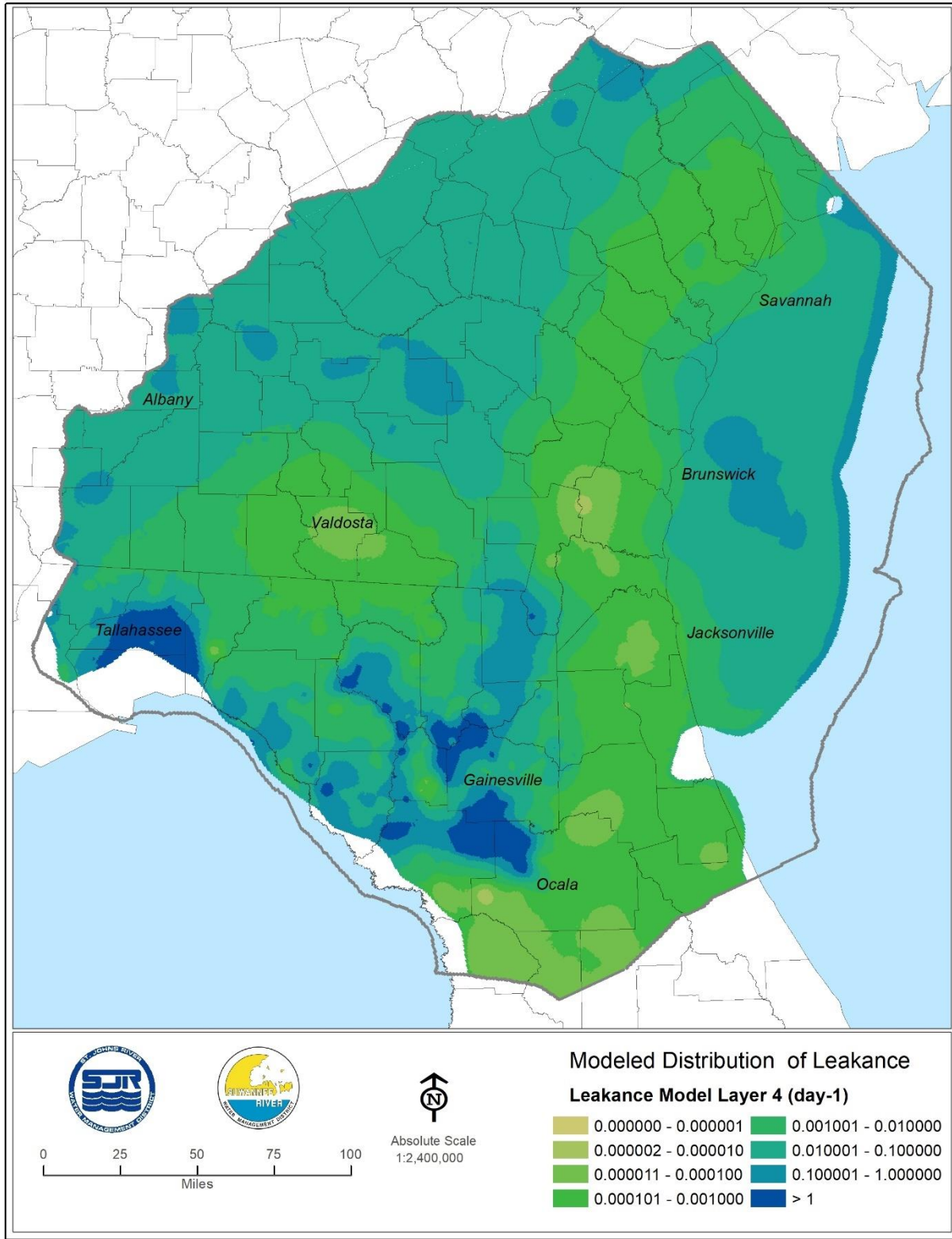


Figure 4-82. Modeled Distribution of Leakance, Model Layer 4