

**Minimum Flows and Minimum Water Levels Re-evaluation for the
Lower Santa Fe and Ichetucknee Rivers
and Priority Springs**

**Appendix E - Attachment 1
Transient Model Calibration Results Graphics**

Prepared for:



9225 County Road 49
Live Oak, FL 32060

Prepared by:



15711 Mapledale Boulevard, Suite B
Tampa, FL 33624

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Santa Fe River at Worthington Springs (USGS# 02321500)

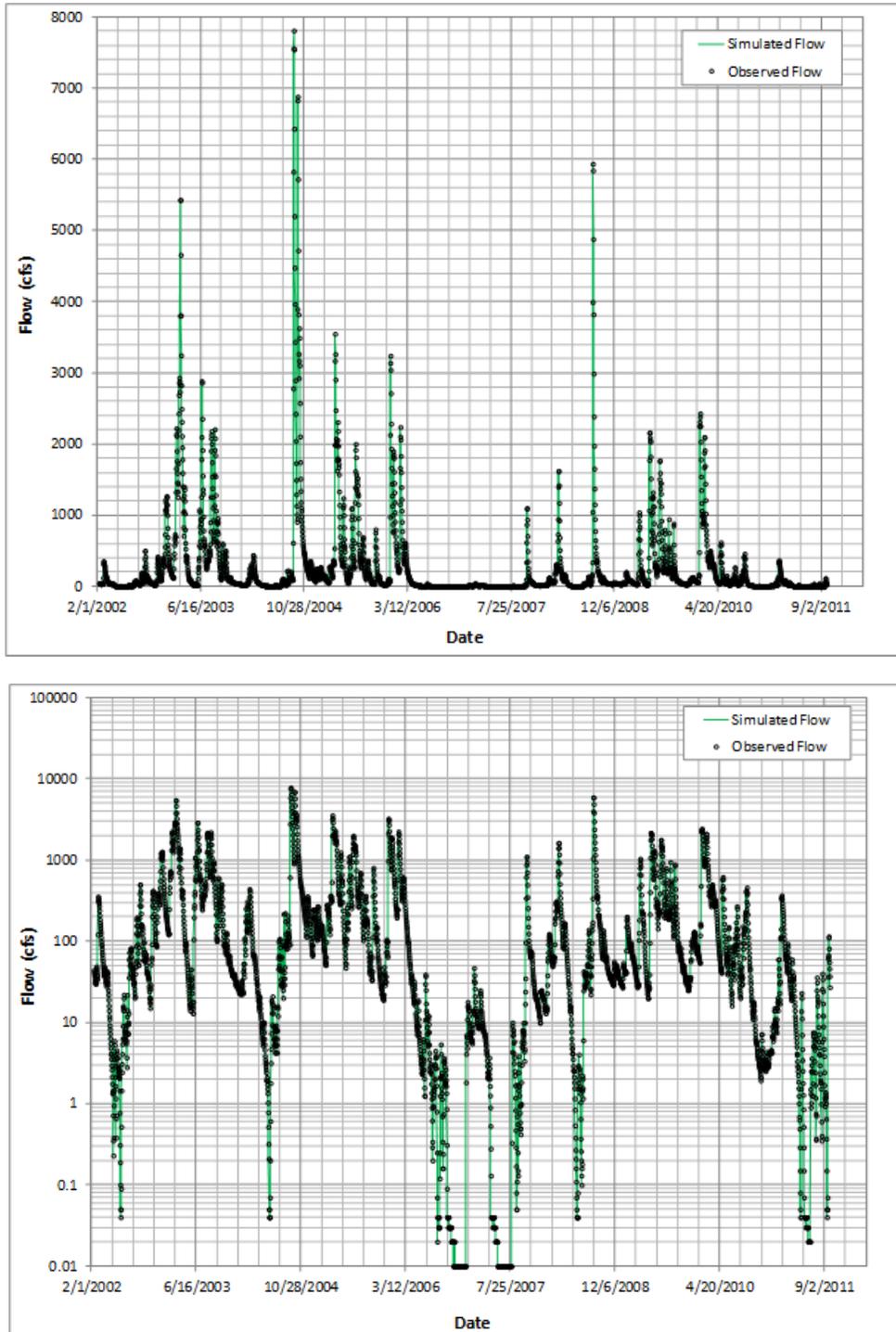


Figure 1. Daily Simulated and Observed Flows at Worthington Springs: Untransformed (top) and Semi-Log (bottom)

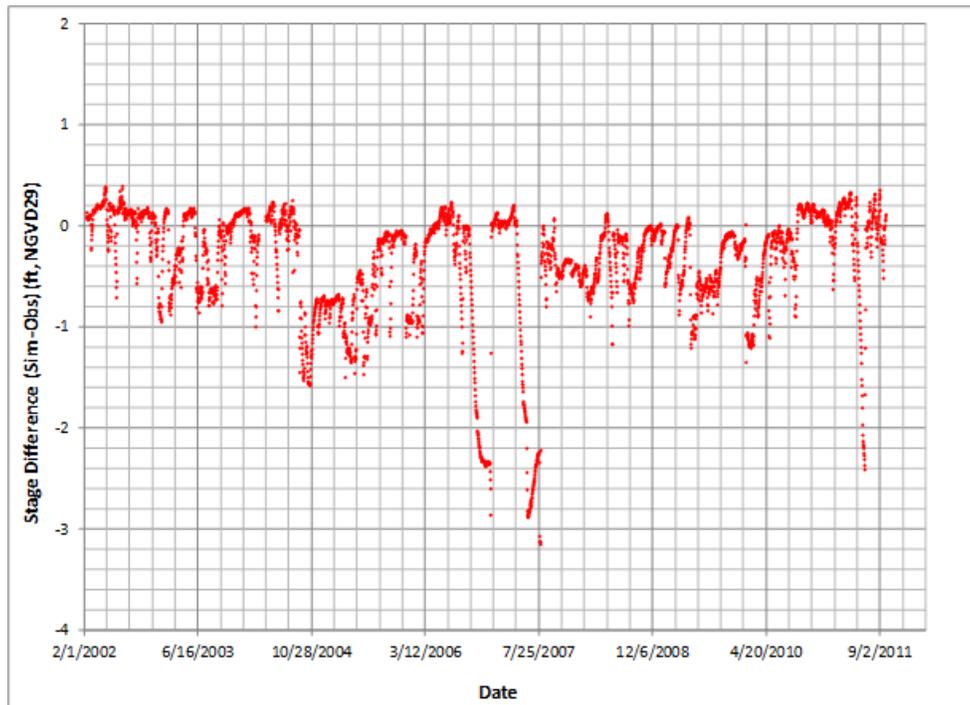
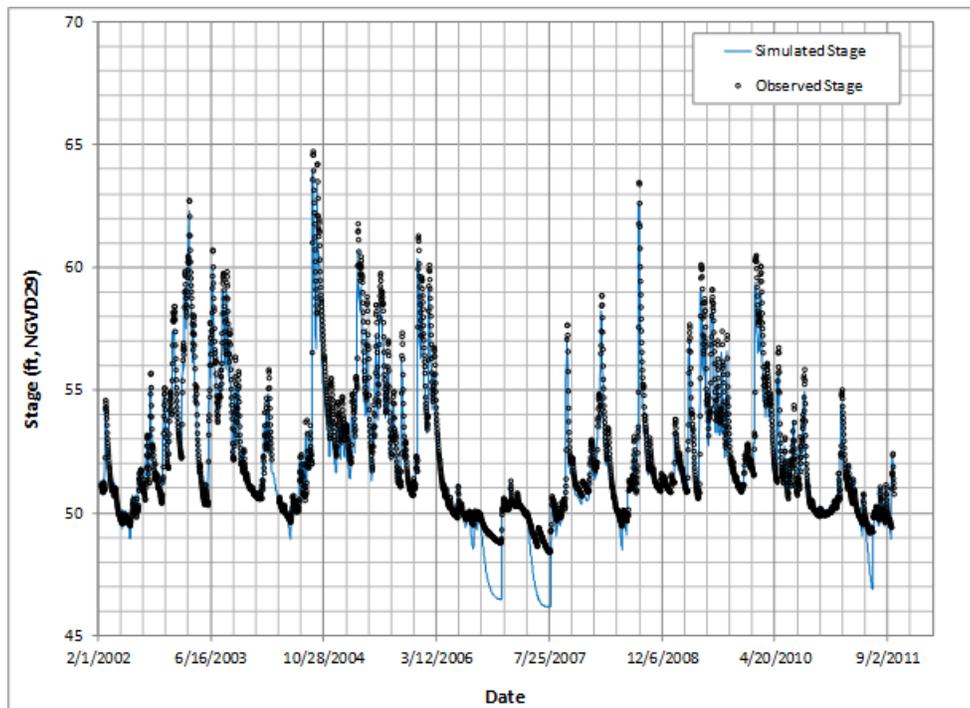


Figure 2. Time Series of Daily Simulated and Observed Stages at Worthington Springs (top) and Stage Residual (bottom)

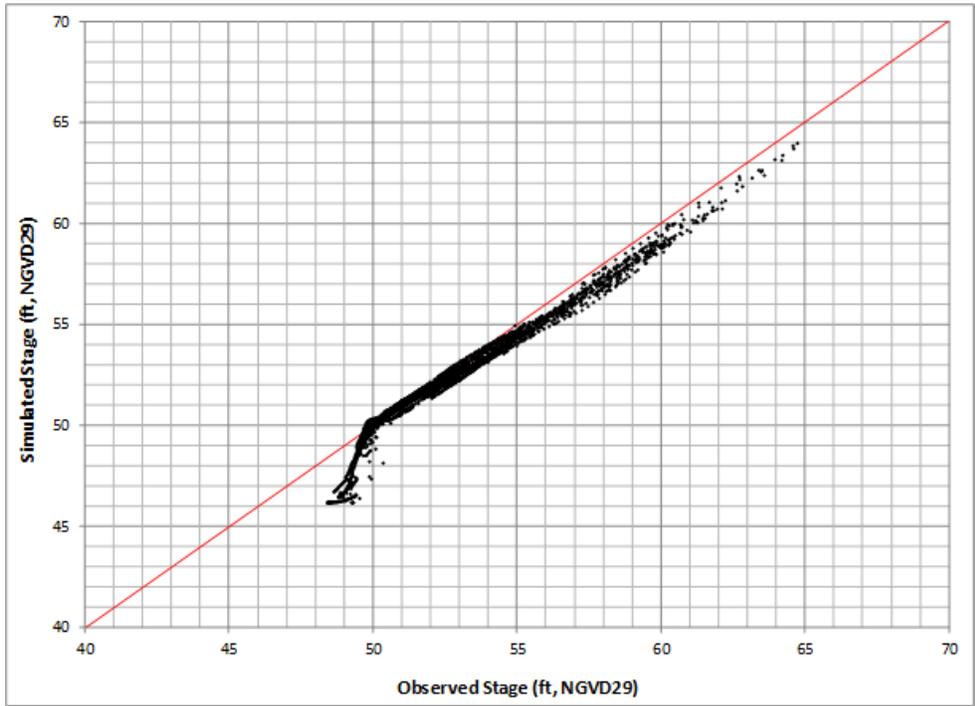


Figure 3. Scatter Plot Comparing Simulated and Observed Stages at Worthington Springs (1:1 line)

Santa Fe River at O'Leno State Park by I-75 (USGS #02321898)

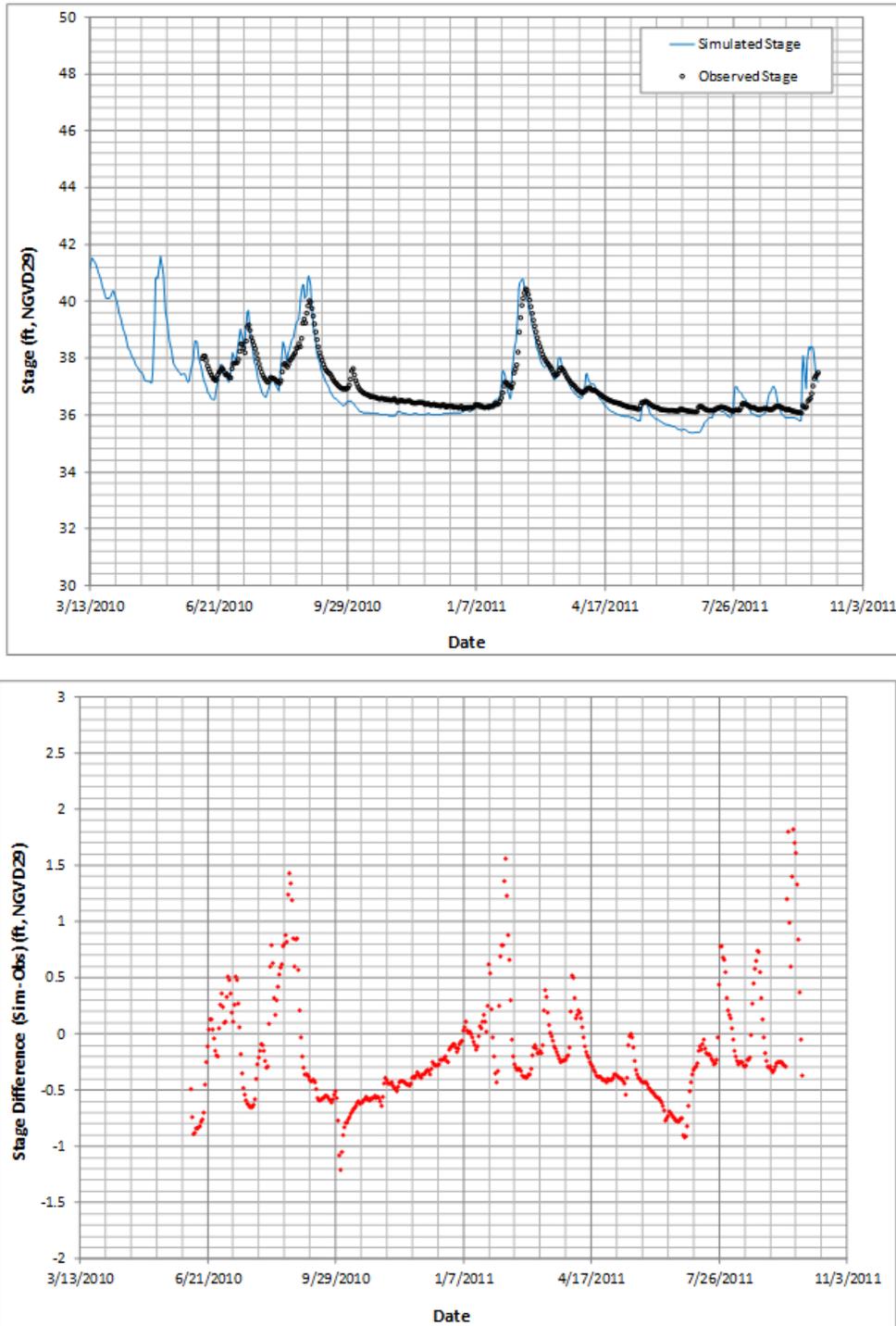


Figure 4. Time Series of Daily Simulated and Observed Stages at O'Leno State Park by I-75 (top) and Stage Residuals (bottom)

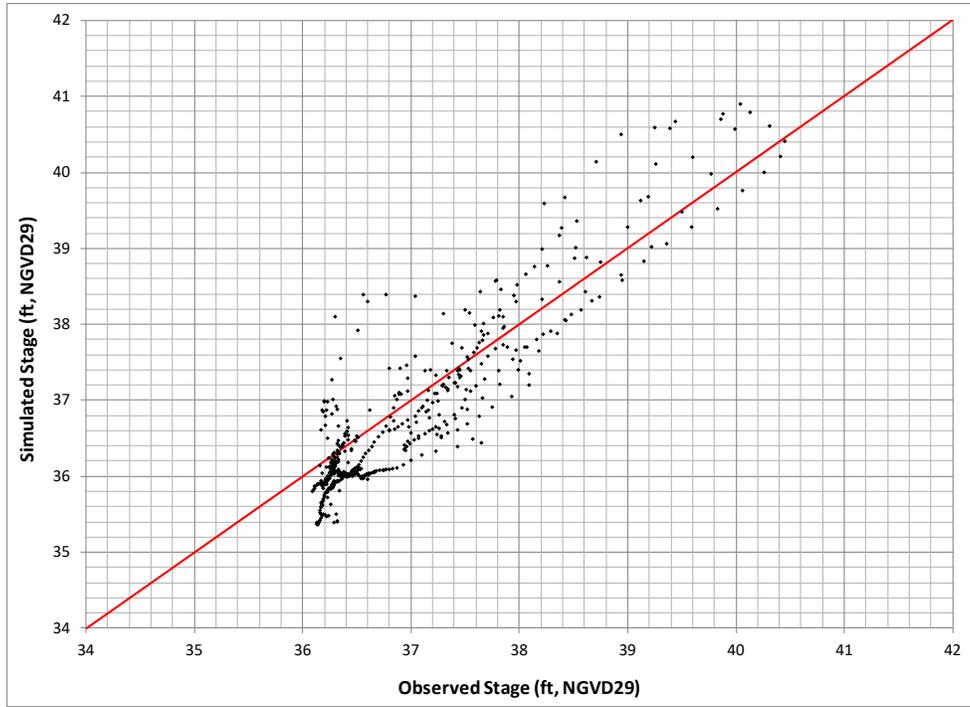


Figure 5. Scatter Plot Comparing Simulated and Observed Stages at O'Leno State Park by I-75 (1:1 line)

Santa Fe River at O'Leno State Park by Footbridge

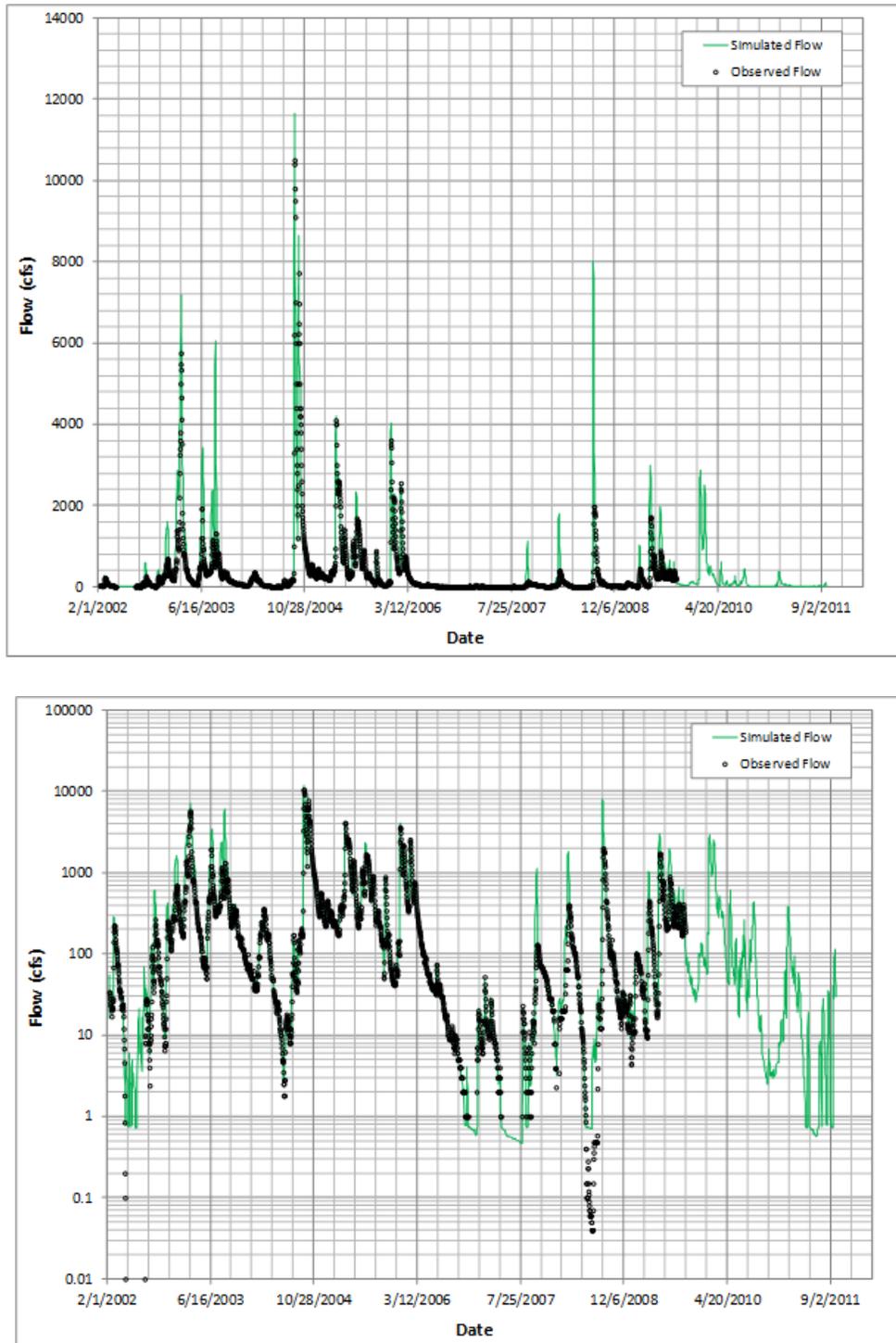


Figure 6. Time Series of Daily Simulated and Observed Flows at O'Leno State Park by Footbridge: Untransformed (top) and Semi-Log (bottom)

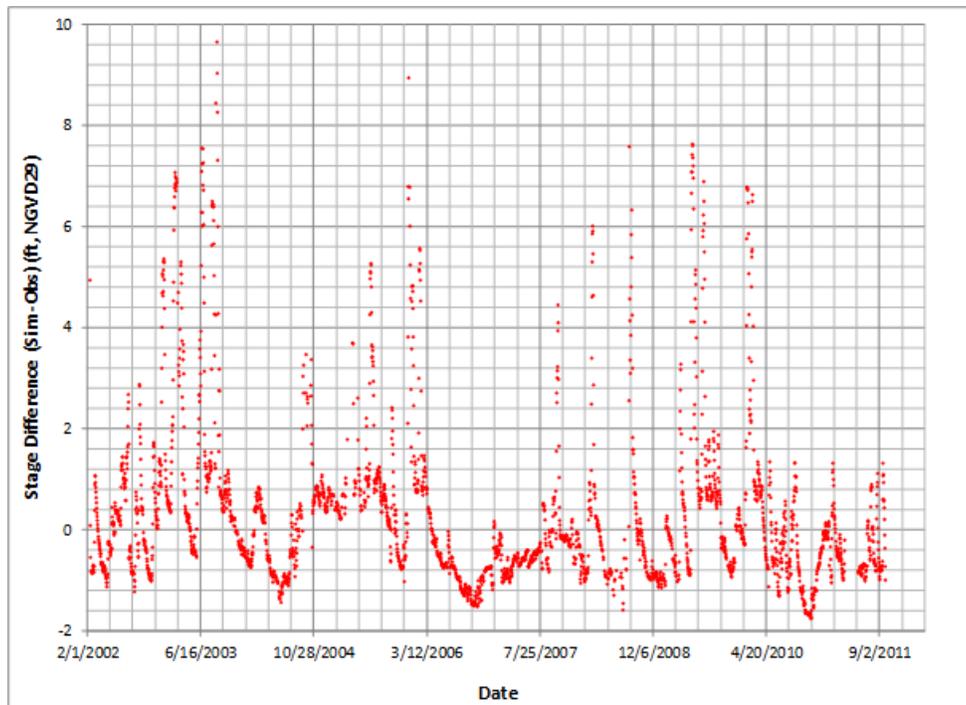
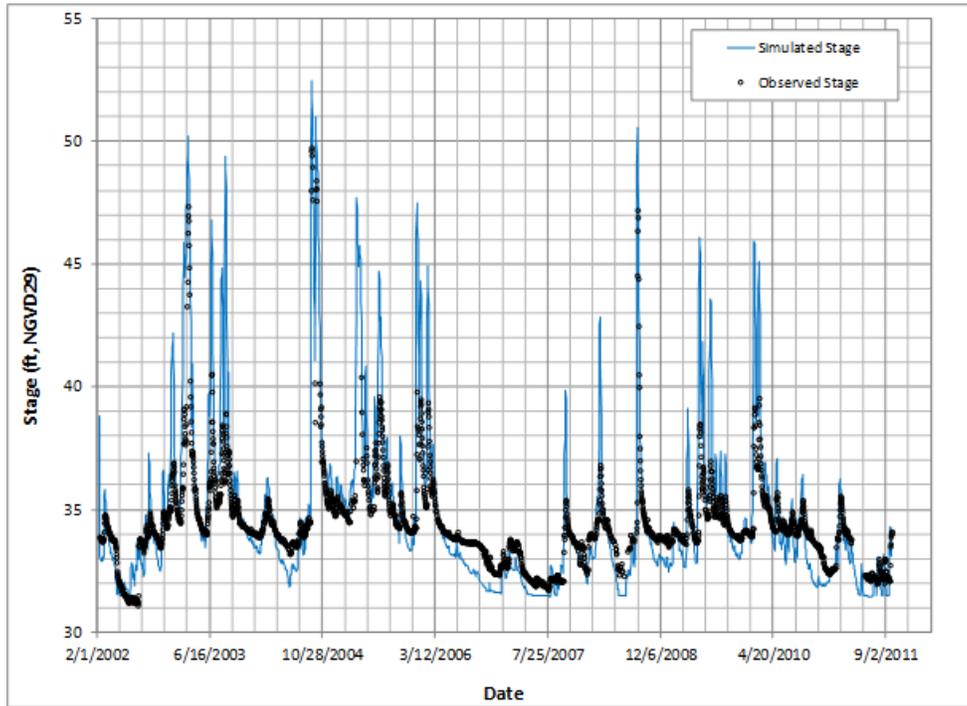


Figure 7. Times Series of Daily Simulated and Observed Stages at O'Leno State Park by Footbridge (top) and Stage Residuals (bottom)

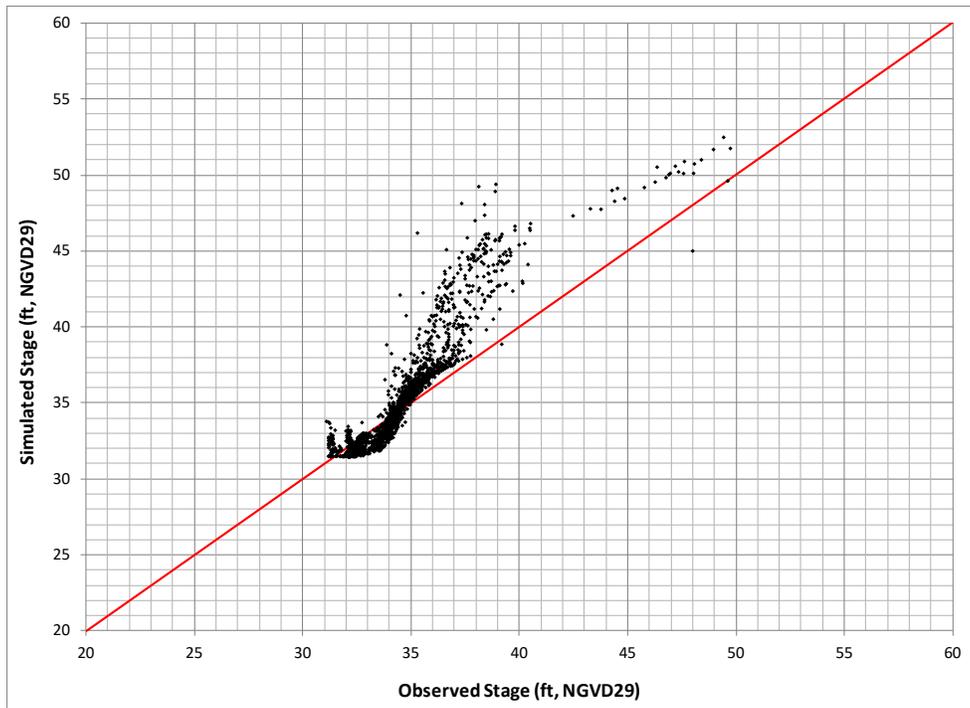


Figure 8. Scatter Plot Comparing Simulated and Observed Stages at O'Leno State Park by Footbridge (1:1 line)

Santa Fe River at River Rise

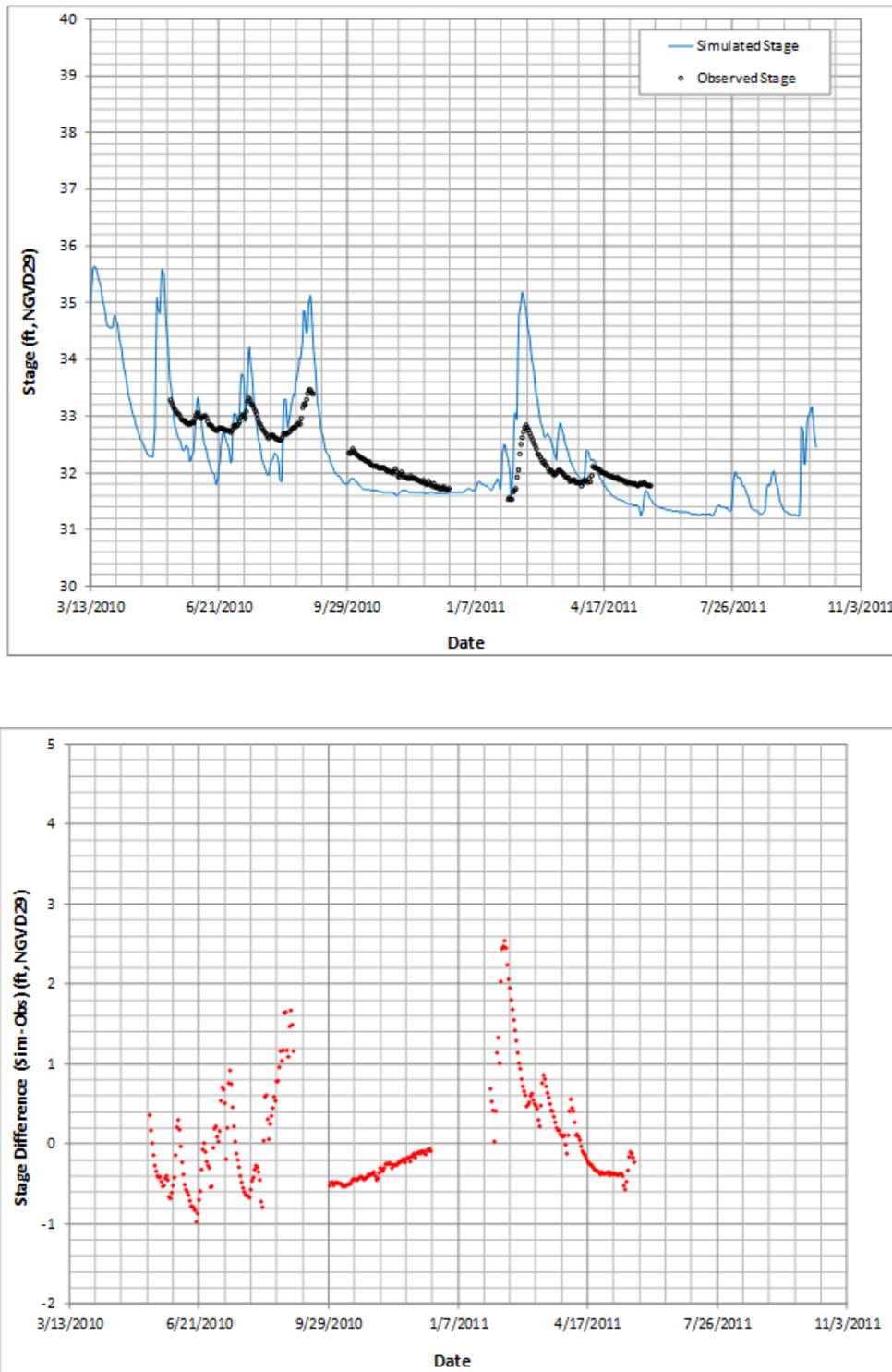


Figure 9. Time Series of Daily Simulated and Observed Stages at River Rise (top) and Stage Residuals (bottom)

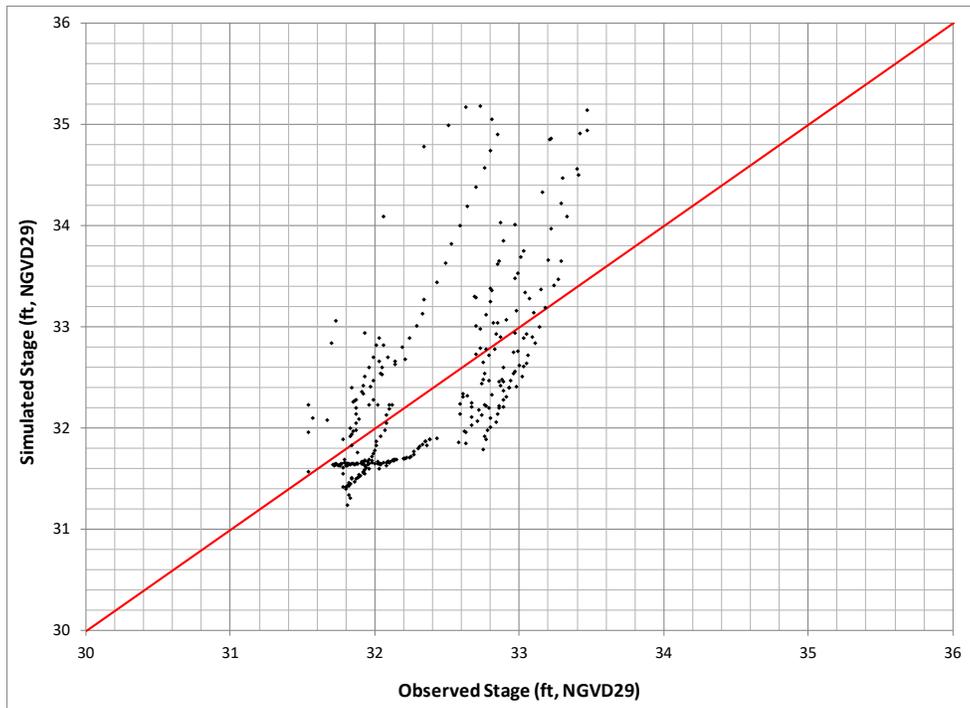


Figure 10. Scatter Plot Comparing Simulated and Observed Stages at River Rise (1:1 line)

Santa Fe River at US Highway 441 (USGS #02321975)

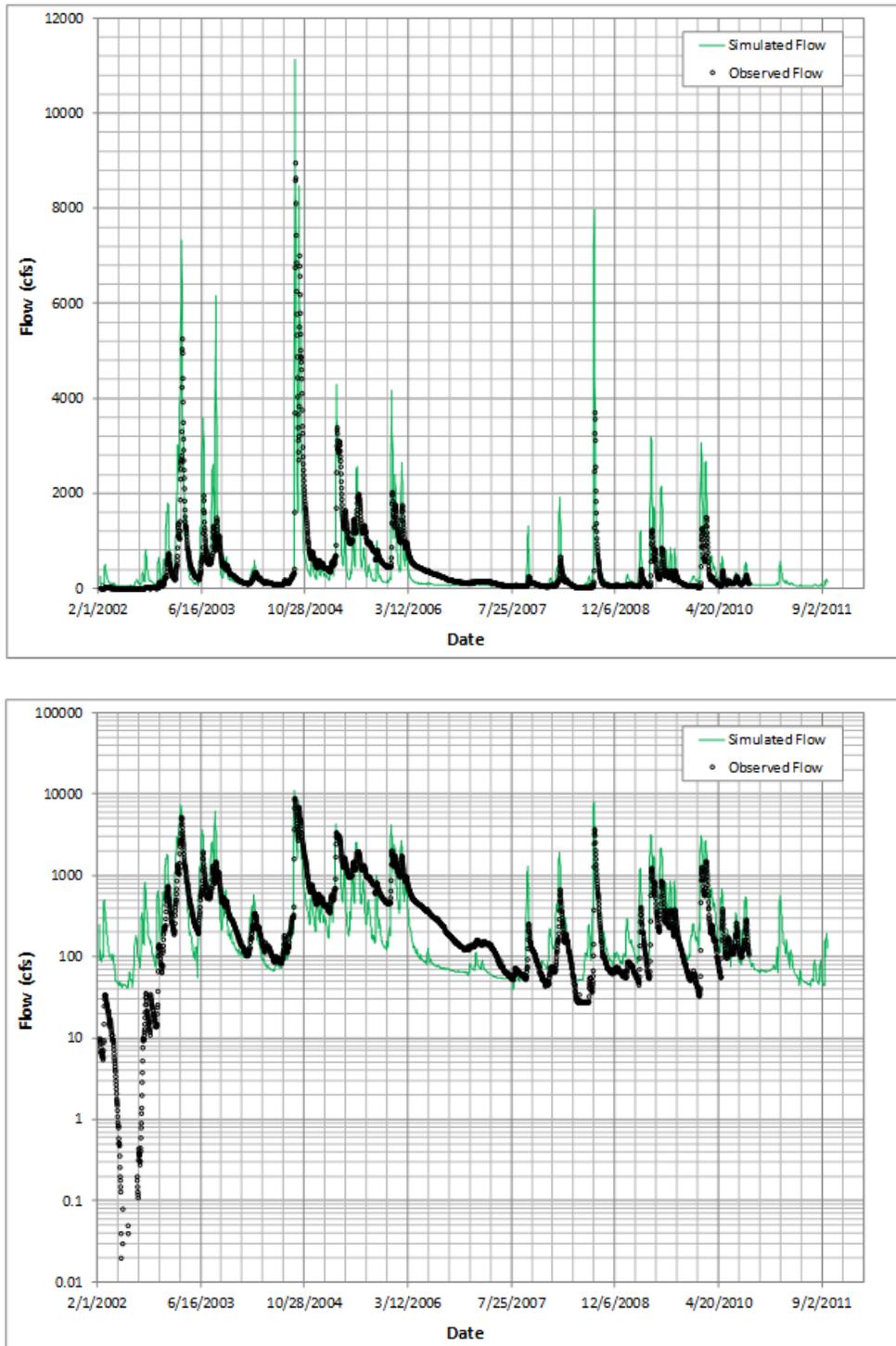


Figure 11. Time Series of Daily Simulated and Observed Flows at US Highway 441: Untransformed (top) and Sem-Log (bottom)

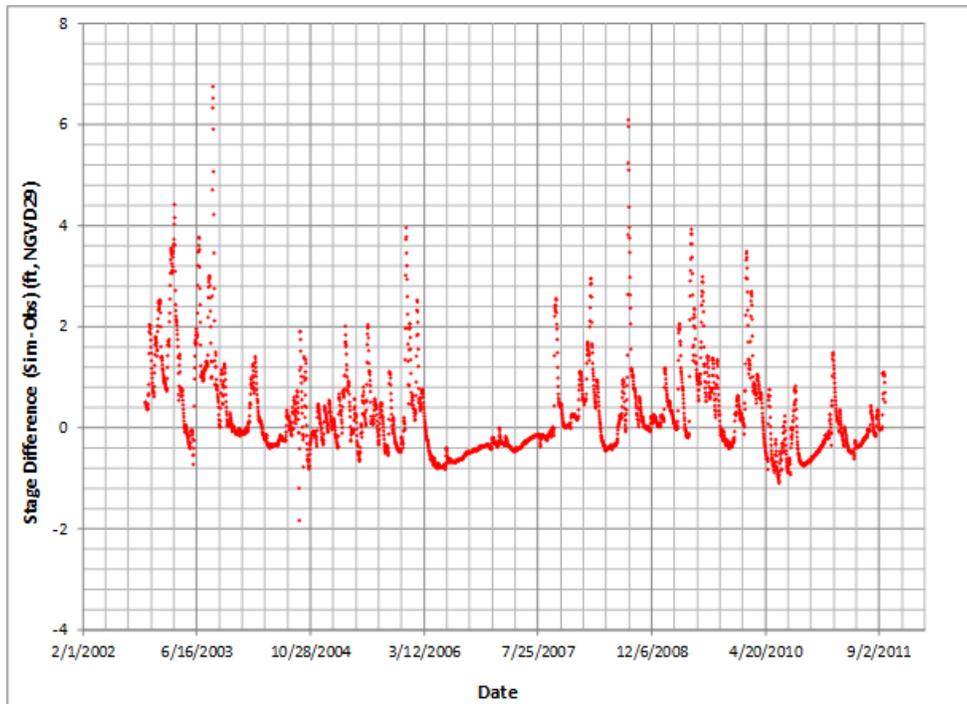
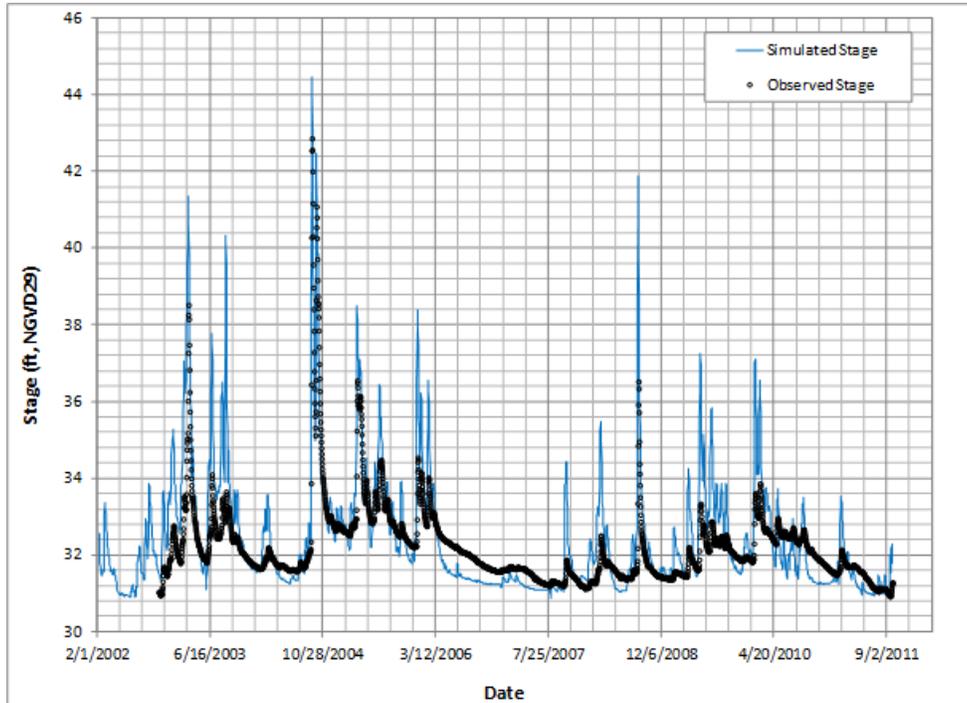


Figure 12. Time Series of Daily Simulated and Observed Stages at US Highway 441 (top) and Stage Residuals (bottom)

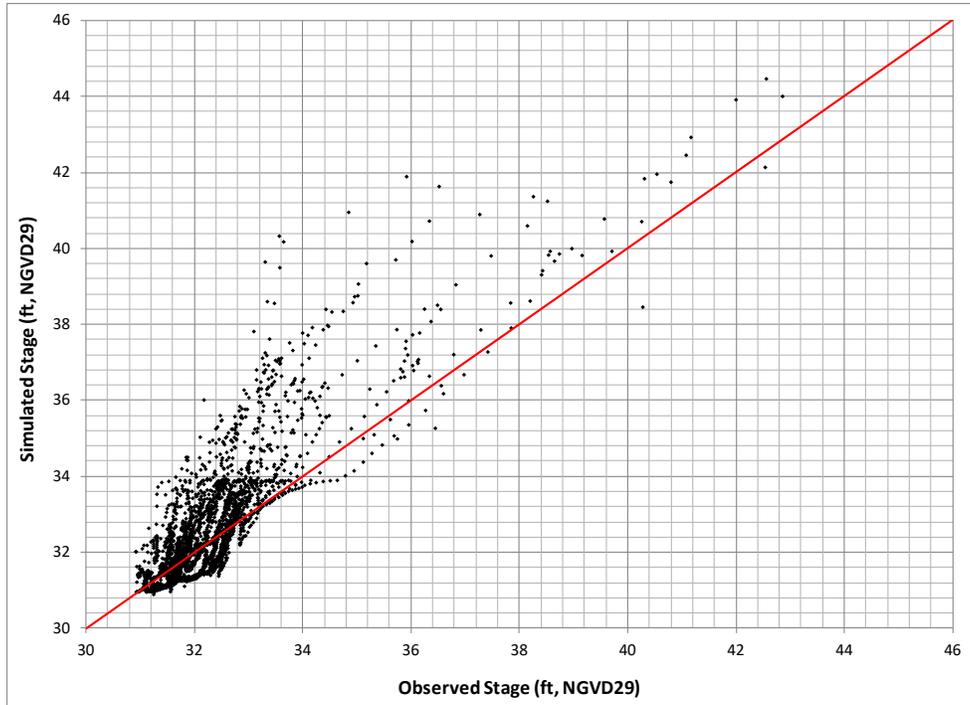


Figure 13. Scatter Plot Comparing Simulated and Observed Stages at US Highway 441 (1:1 line)

Santa Fe River at Sinkhole near High Springs (Logger)

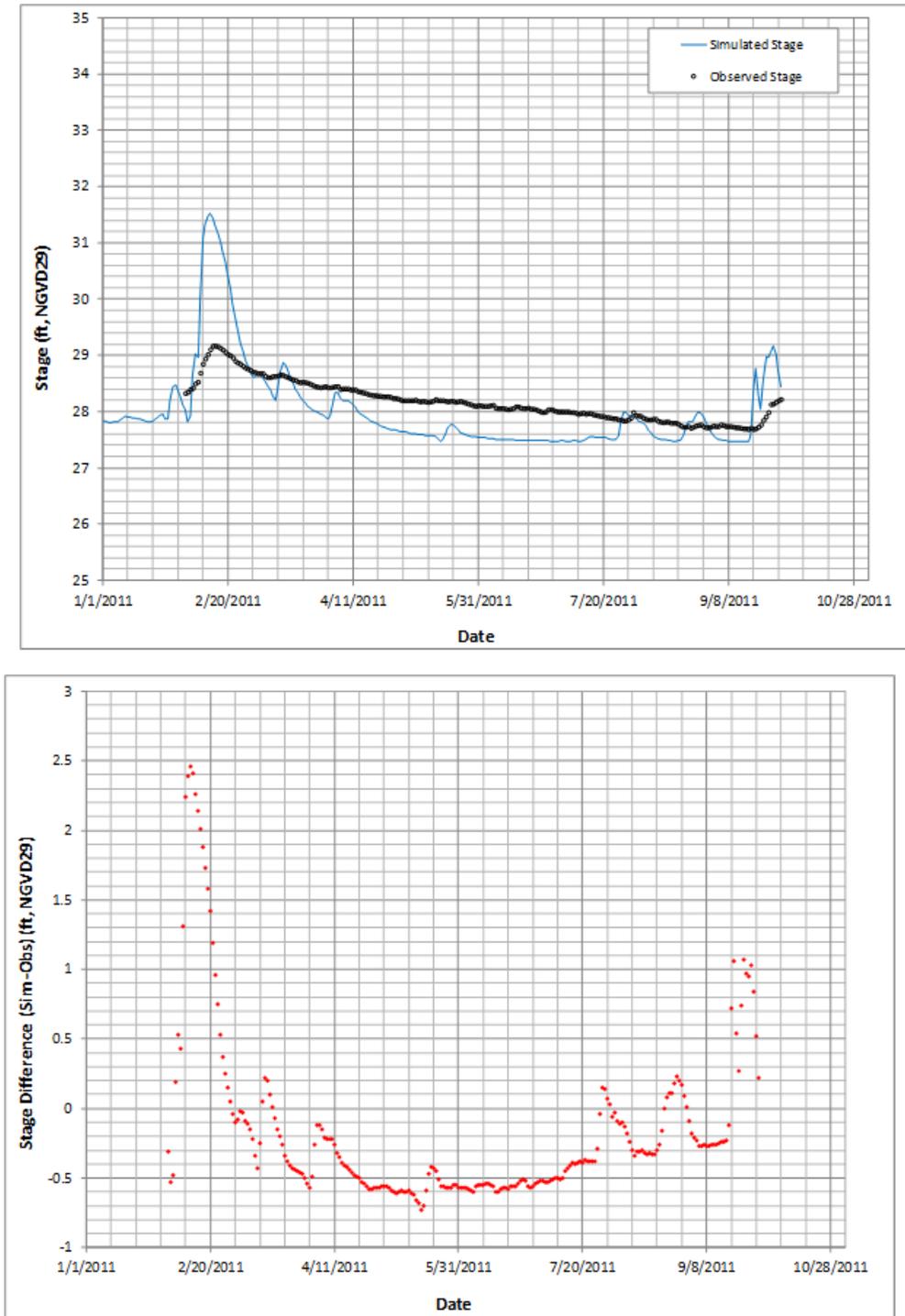


Figure 14. Time Series of Daily Simulated and Observed Stages at Sinkhole near High Springs (top) and Stage Residuals (bottom)

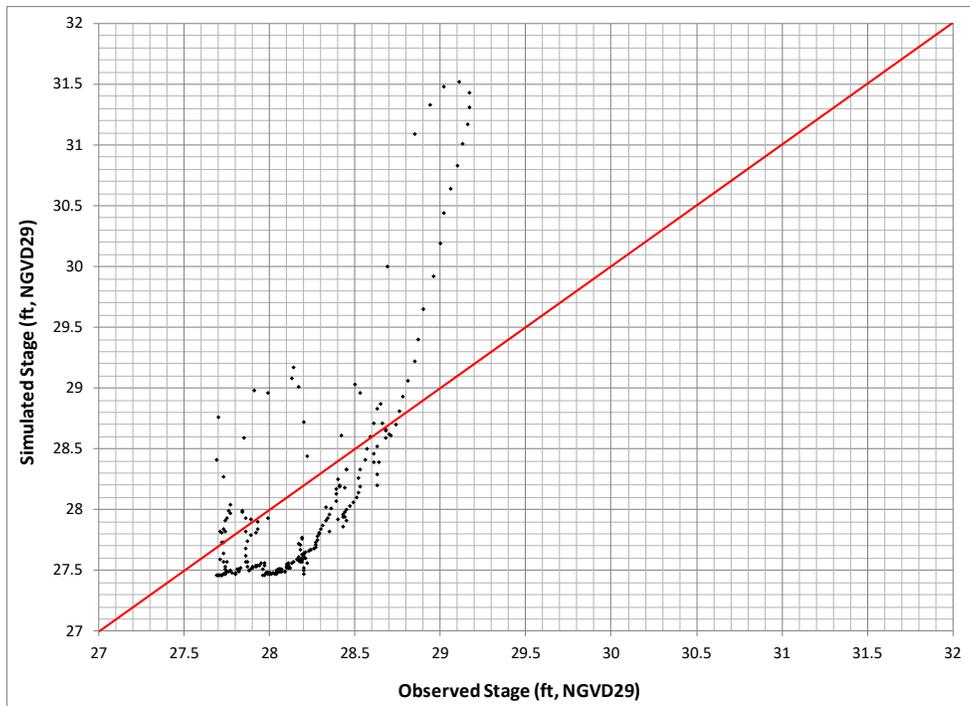


Figure 15. Scatter Plot Comparing Simulated and Observed Stages at Sinkhole near High Springs (1:1 line)

Santa Fe River at Canoe Scrape (Logger)

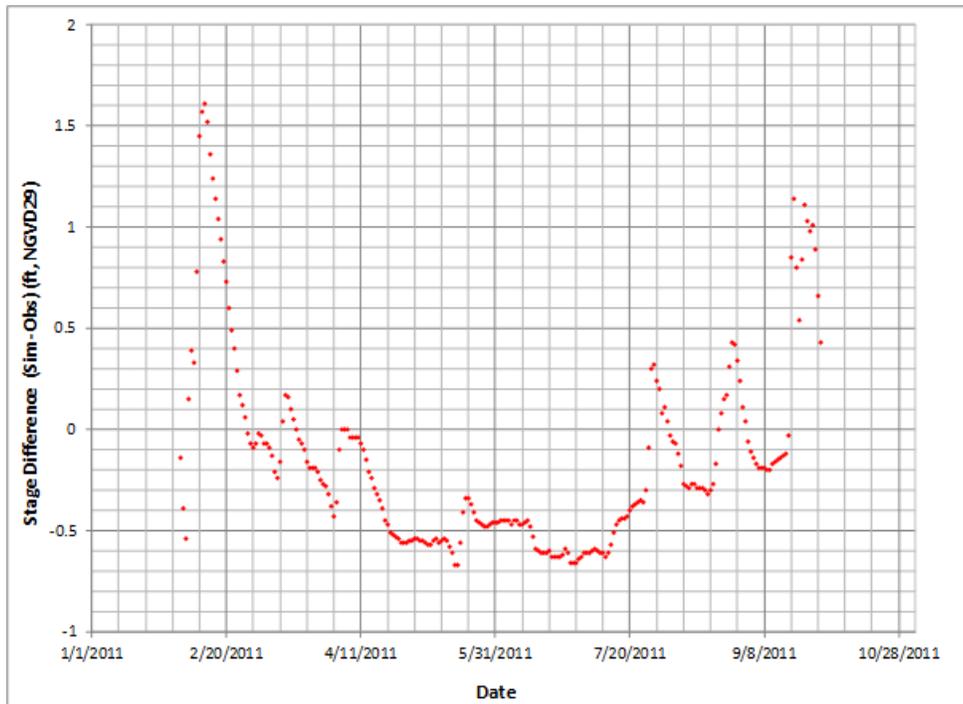
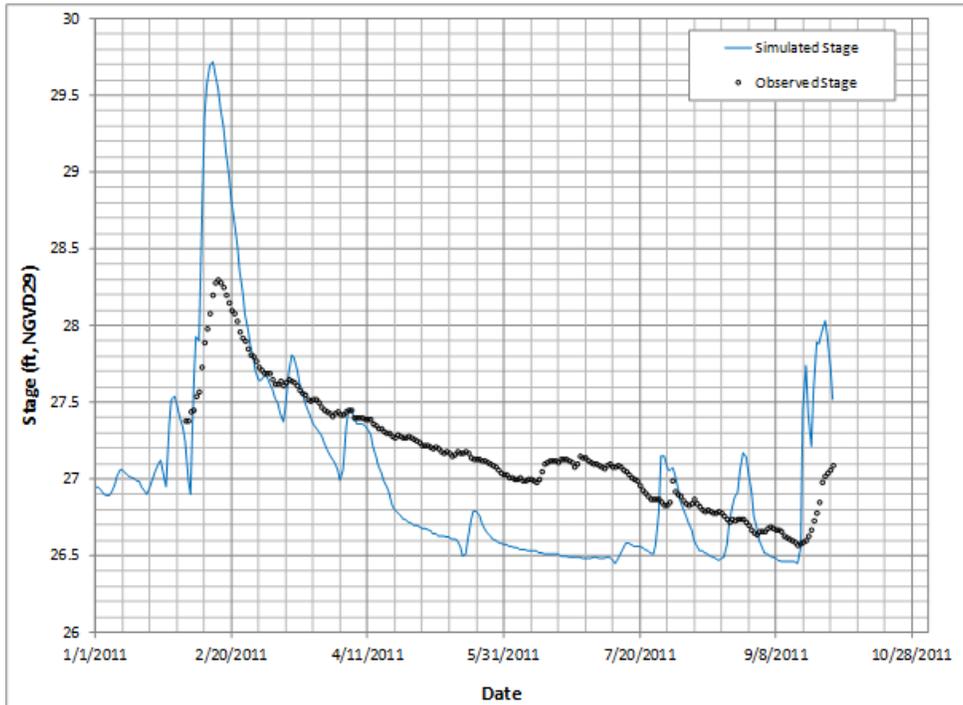


Figure 16. Time Series of Daily Simulated and Observed Stages at Canoe Scrape (top) and Stage Residuals (bottom)

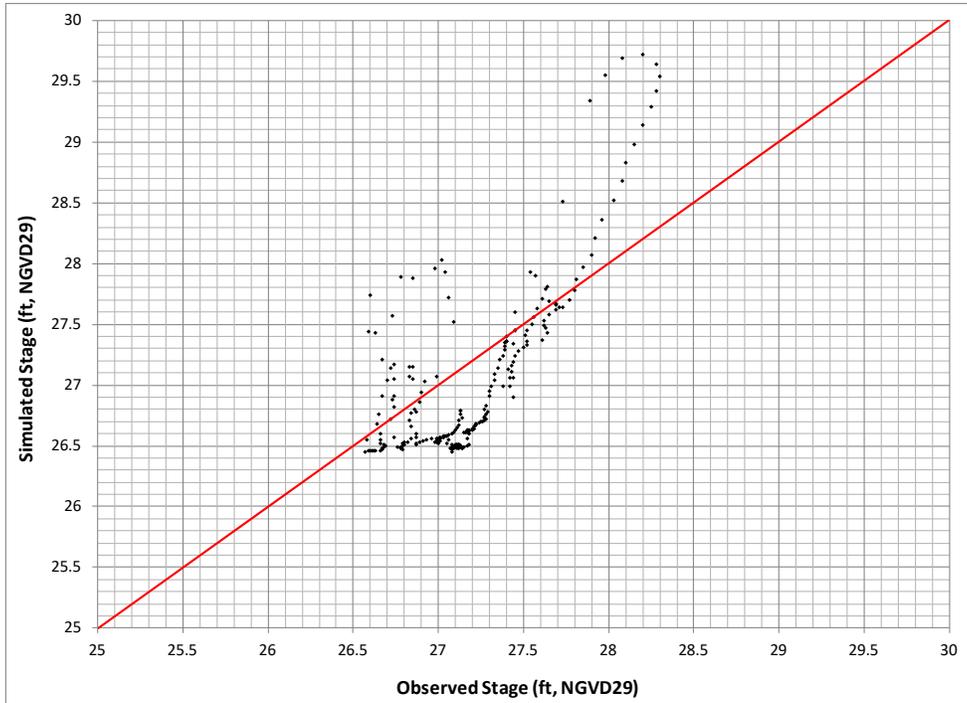


Figure 17. Scatter Plot Comparing Simulated and Observed Stages at Canoe Scrape (1:1 line)

Santa Fe River at Logger near High Springs

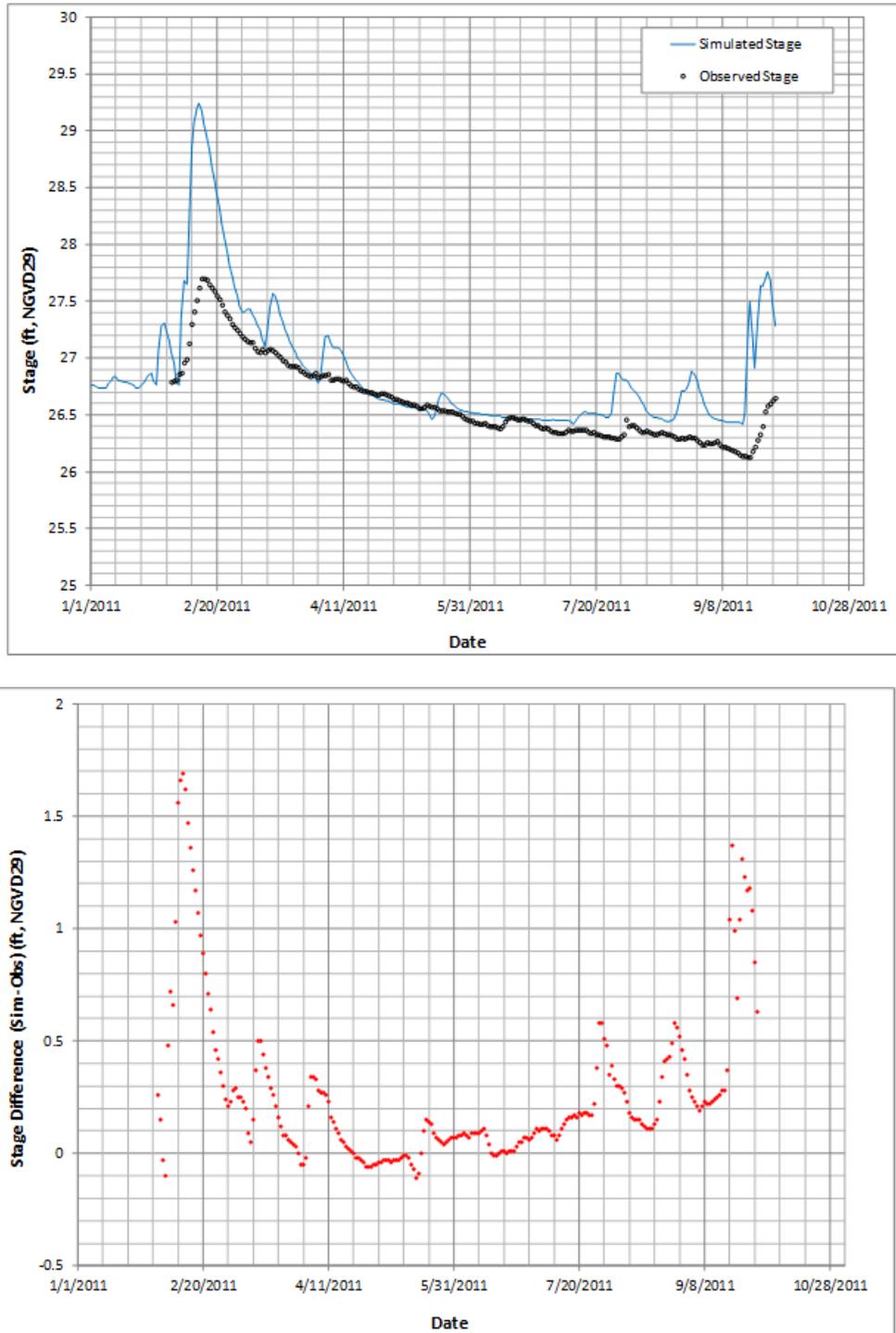


Figure 18. Time Series of Daily Simulated and Observed Stages at Logger near High Springs (top) and Stage Residuals (bottom)

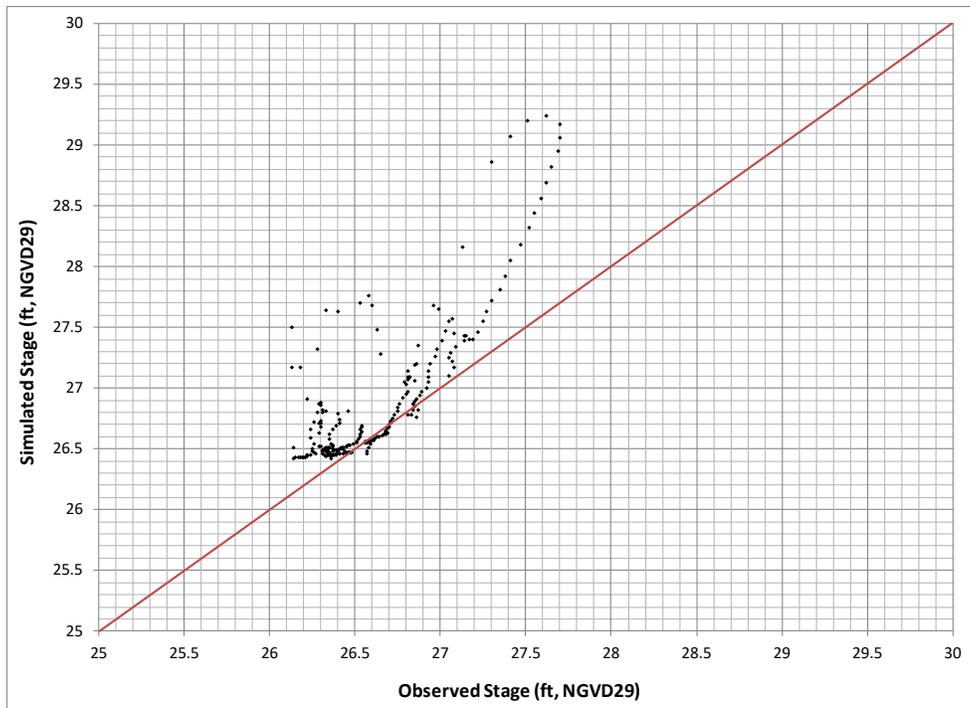


Figure 19. Scatter Plot Comparing Simulated and Observed Stages at Logger near High Springs (1:1 line)

Santa Fe River at Logger at Poe Springs

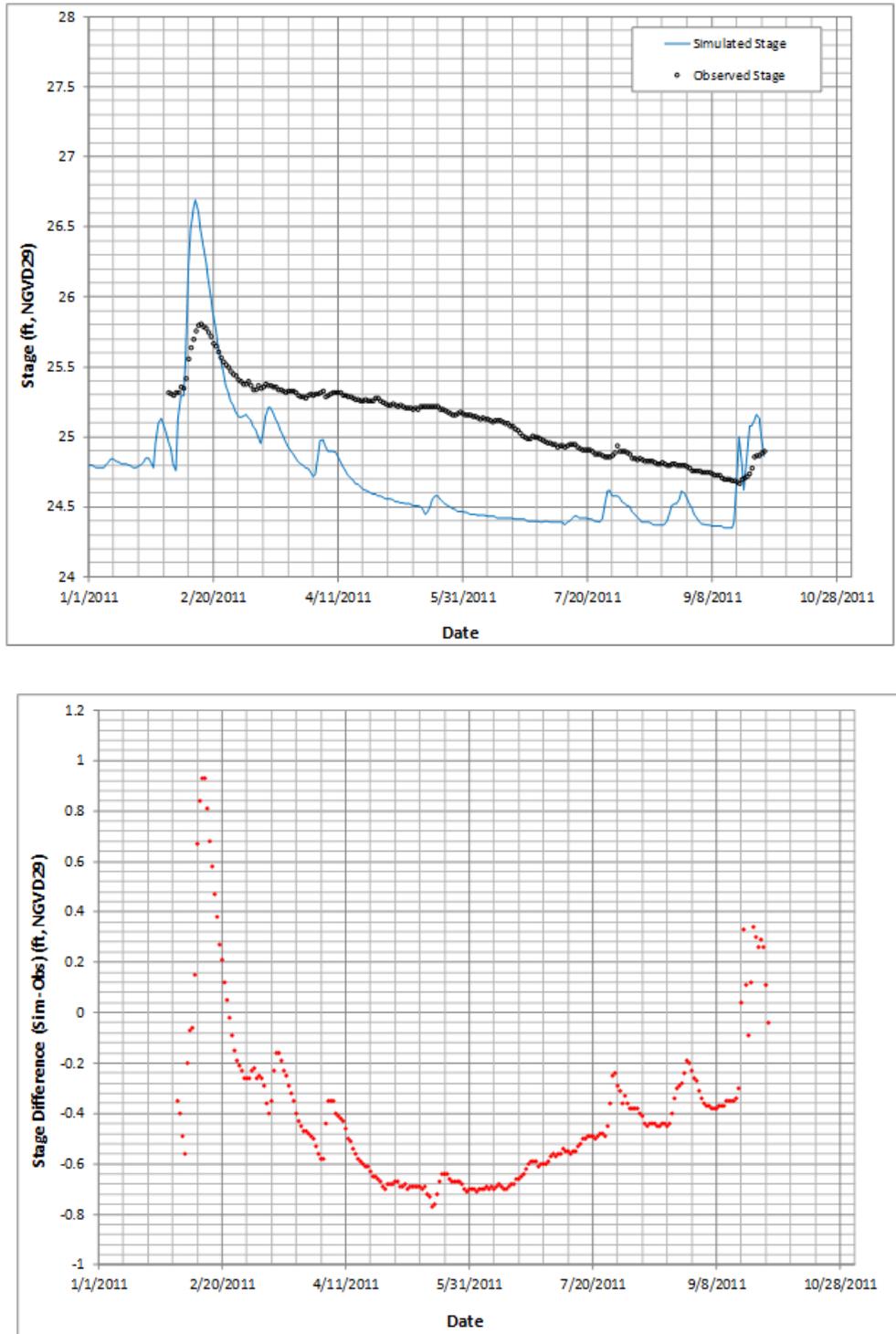


Figure 20. Time Series of Daily Simulated and Observed Stages at Logger at Poe Springs (top) and Stage Residuals (bottom)

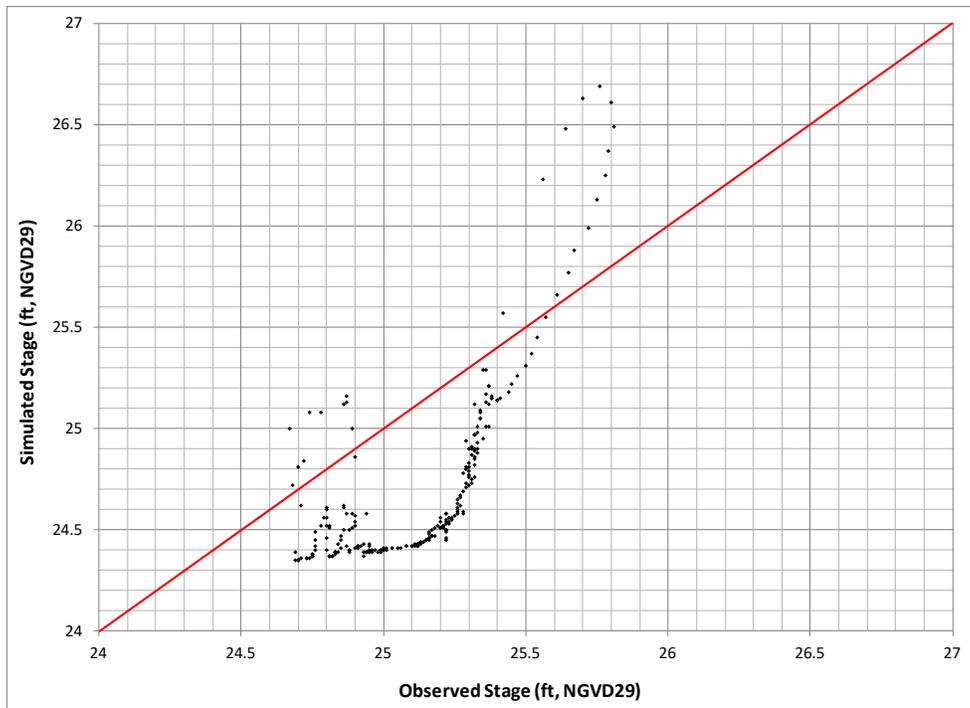


Figure 21. Scatter Plot Comparing Simulated and Observed Stages at Logger at Poe Springs (1:1 line)

Santa Fe River at Logger at Rum Island

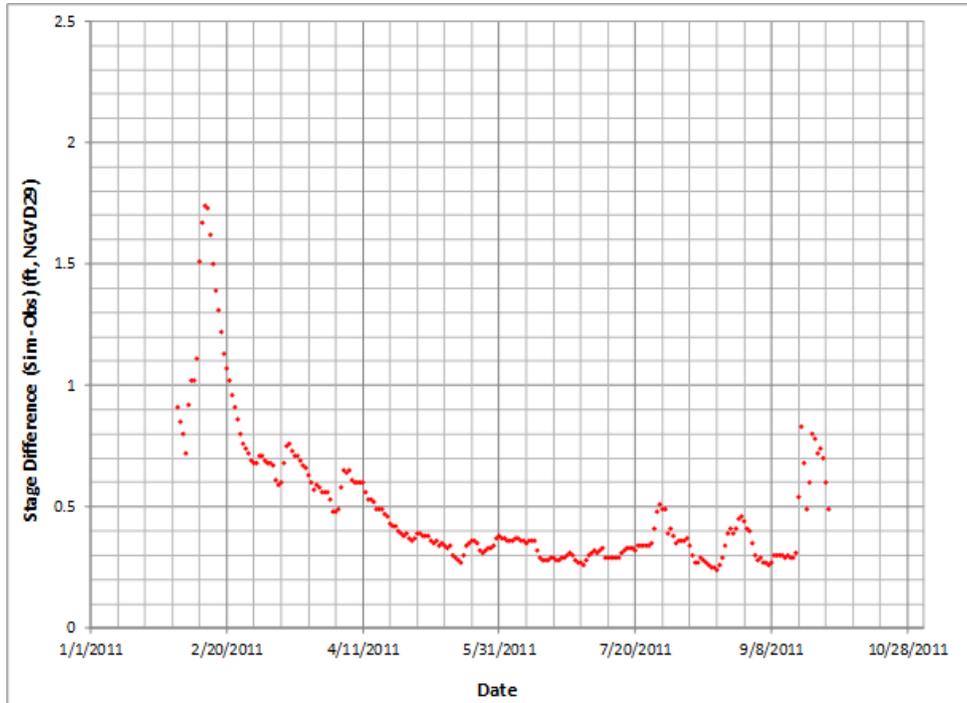
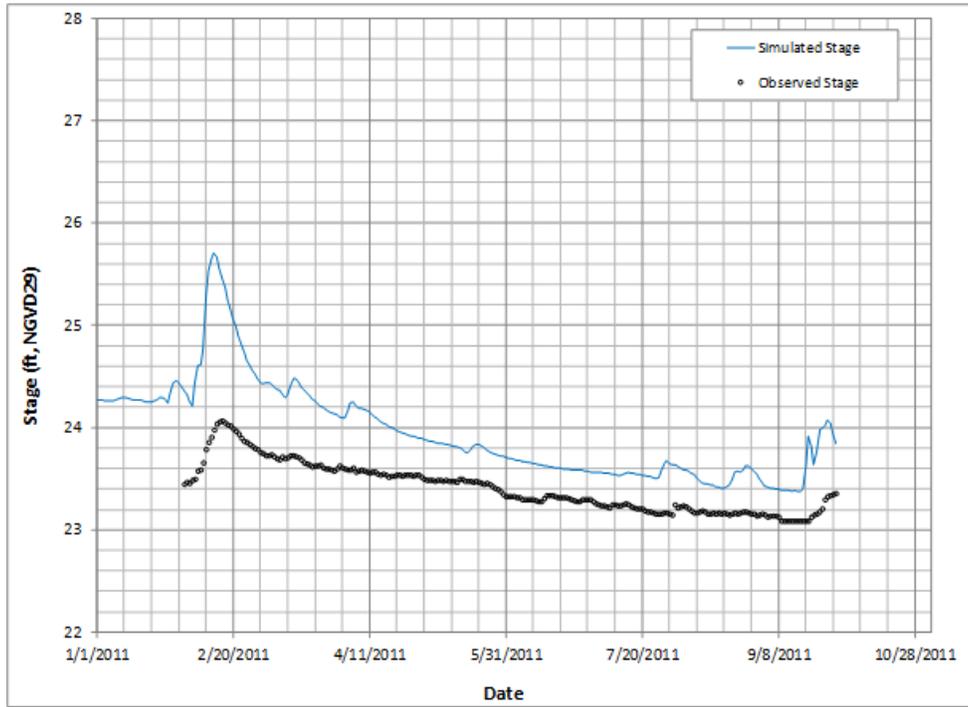


Figure 22. Time Series of Daily Simulated and Observed Stages at Logger at Rum Island (top) and Stage Residuals (bottom)

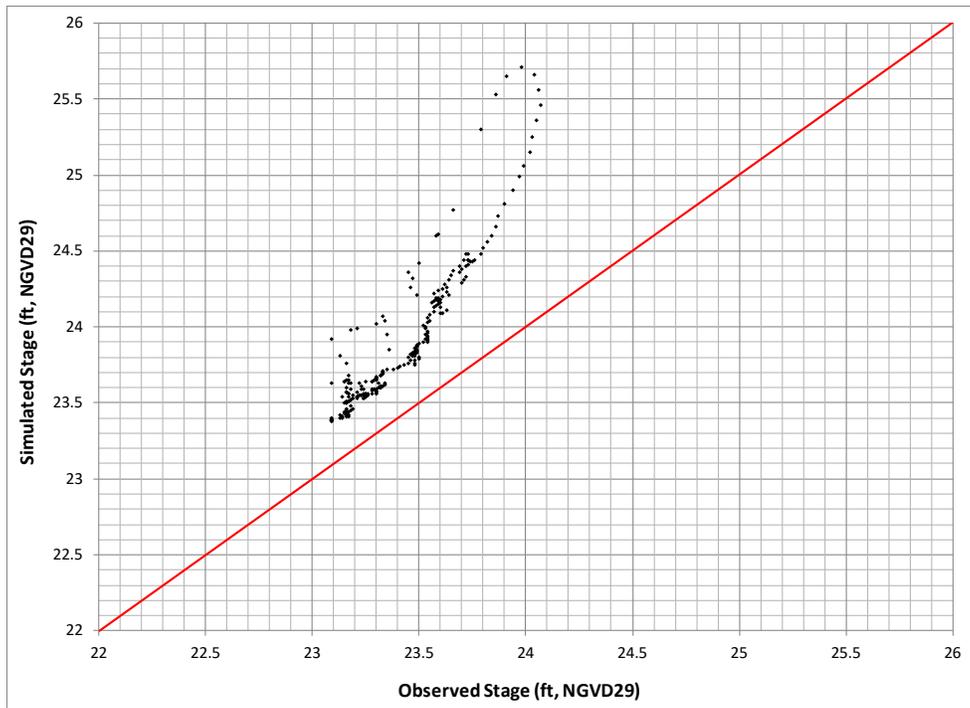


Figure 23. Scatter Plot Comparing Simulated and Observed Stages at Logger at Rum Island (1:1 line)

Santa Fe River at Fort White (USGS #02322500)

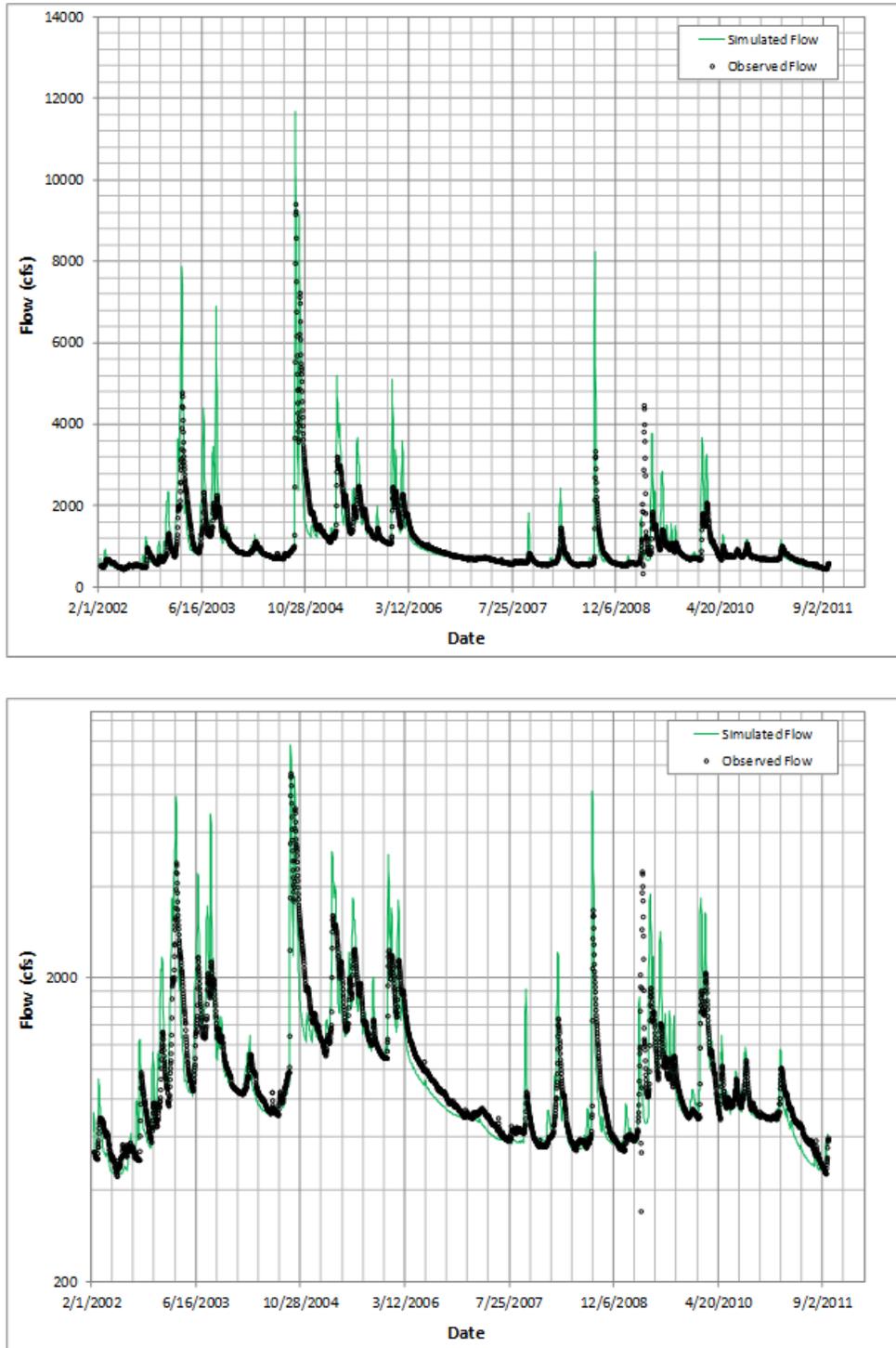


Figure 24. Time Series of Daily Simulated and Observed Flows at Fort White: Untransformed (top) and Sem-Log (bottom)

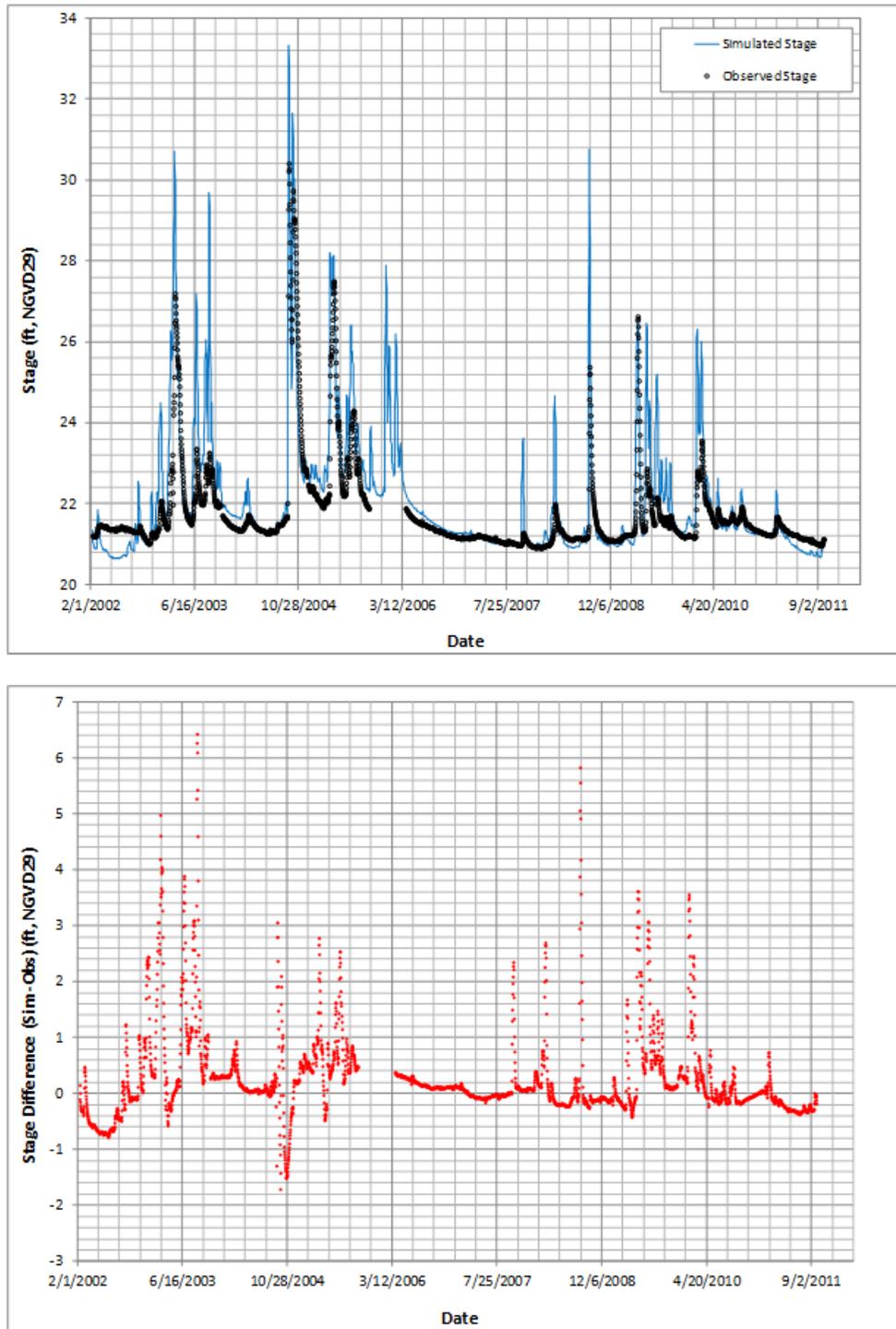


Figure 25. Time Series of Daily Simulated and Observed Stages at Fort White (top) and Stage Residuals (bottom)

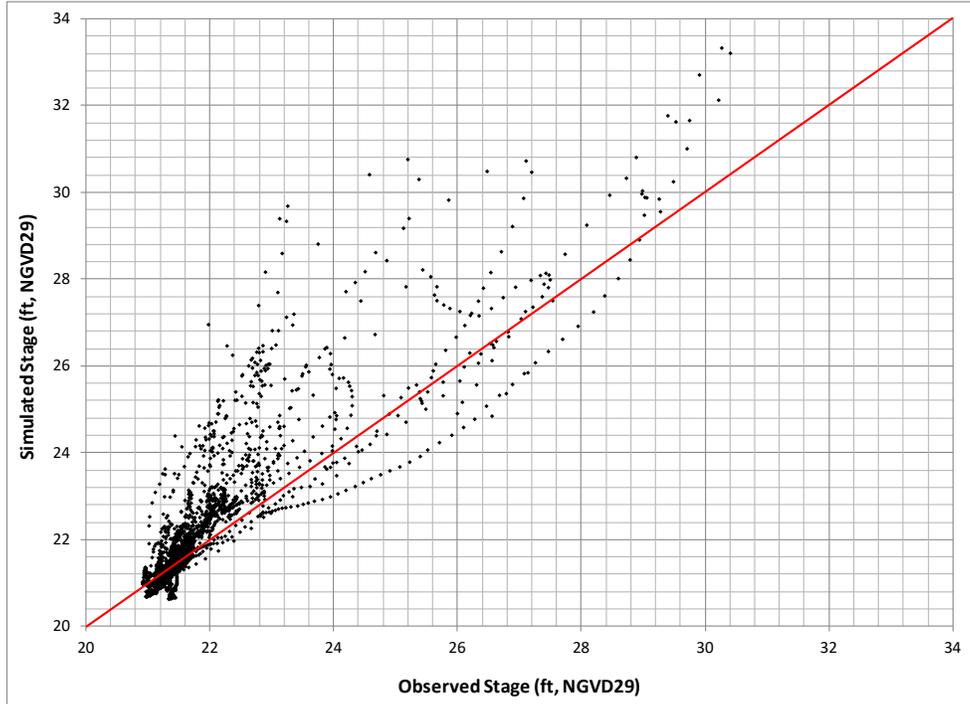


Figure 26. Scatter Plot Comparing Simulated and Observed Stages at Fort White (1:1 line)

Santa Fe River at Logger at SR47 near Fort White

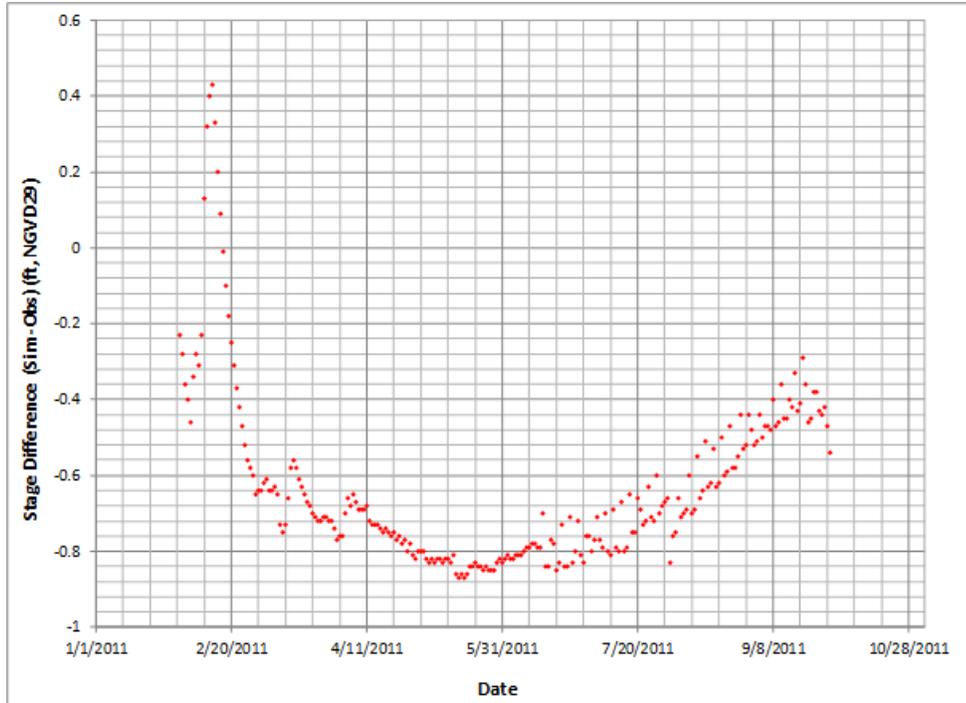
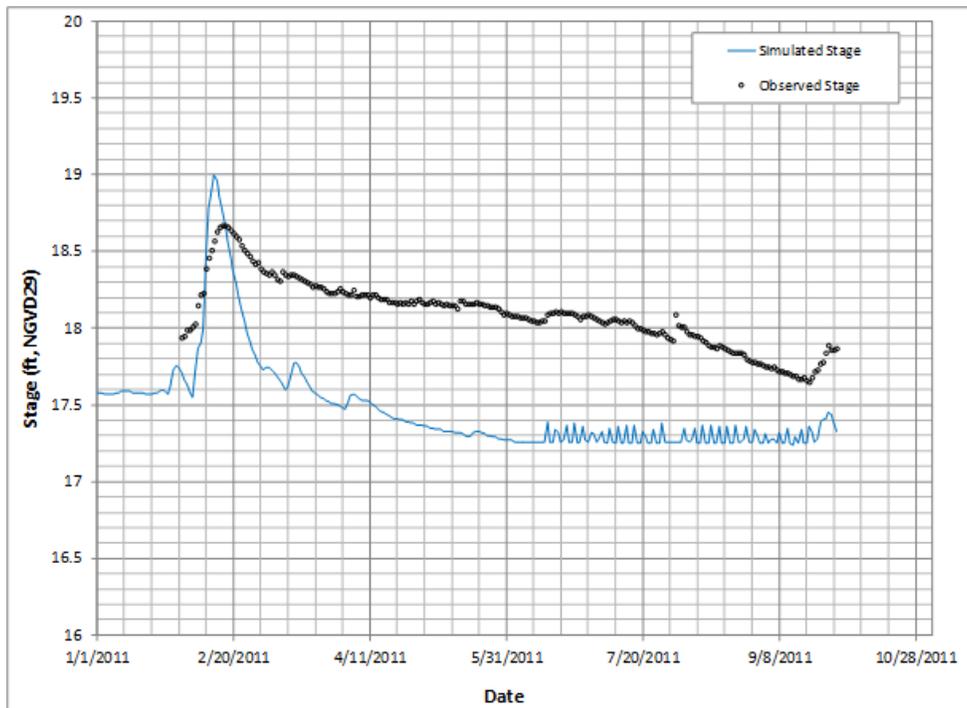


Figure 27. Time Series of Daily Simulated and Observed Stages at Logger at SR 47 near Fort White (top) and Stage Residuals (bottom)

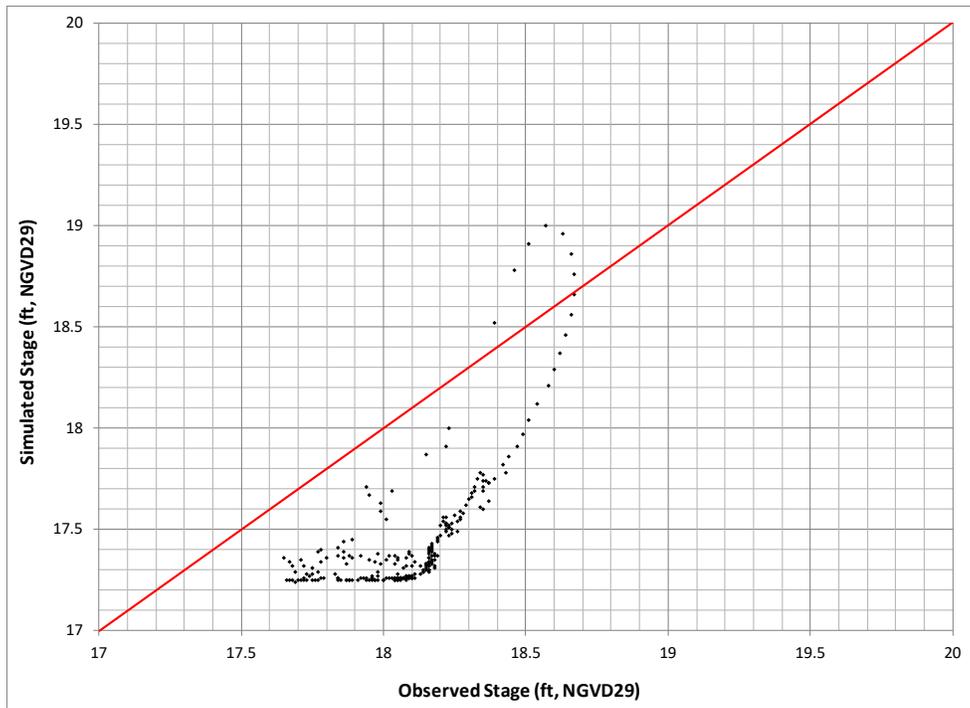


Figure 28. Scatter Plot Comparing Simulated and Observed Stages at Logger at SR 47 near Fort White (1:1 line)

Santa Fe River at Logger at Dog Leg Shoals

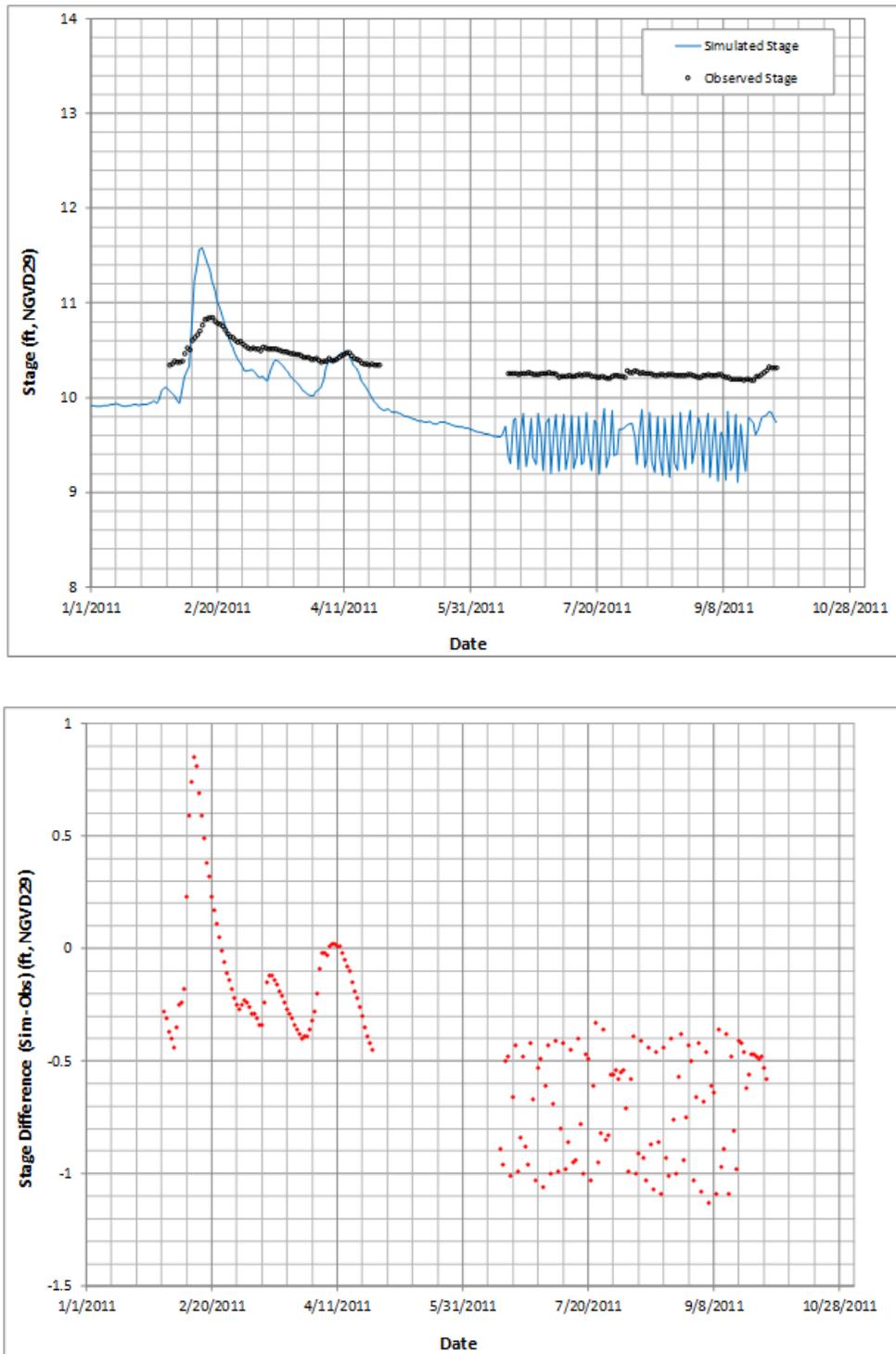


Figure 29. Time Series of Daily Simulated and Observed Stages at Logger at Dog Leg Shoals (top) and Stage Residuals (bottom)

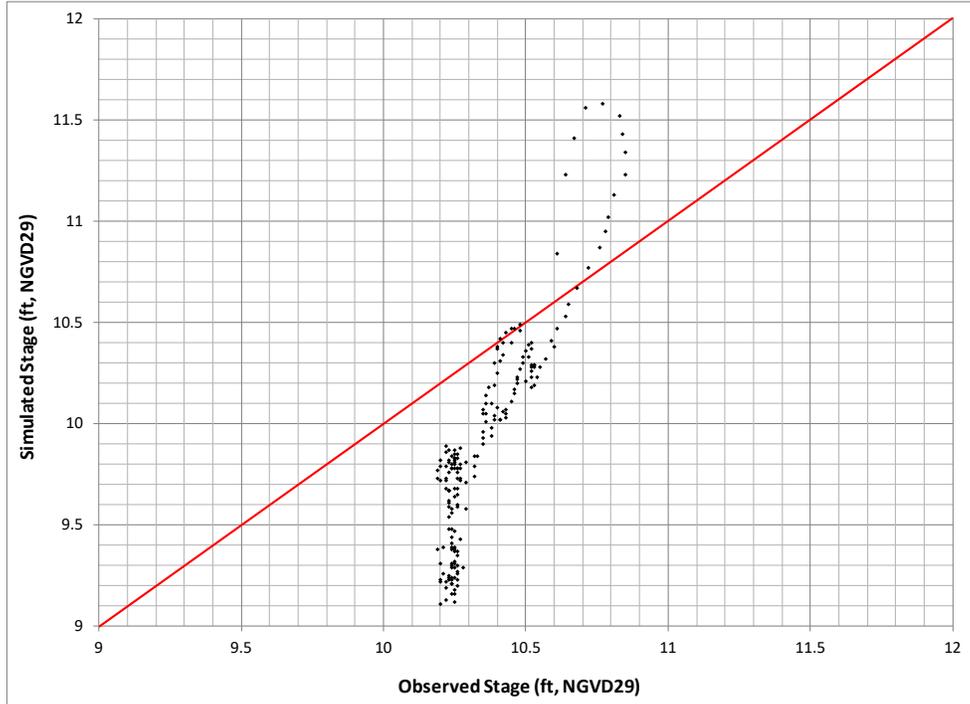


Figure 30. Scatter Plot Comparing Simulated and Observed Stages at Logger at Dog Leg Shoals (1:1 line)

Santa Fe River Point Park (Three Rivers) (USGS #02322703)

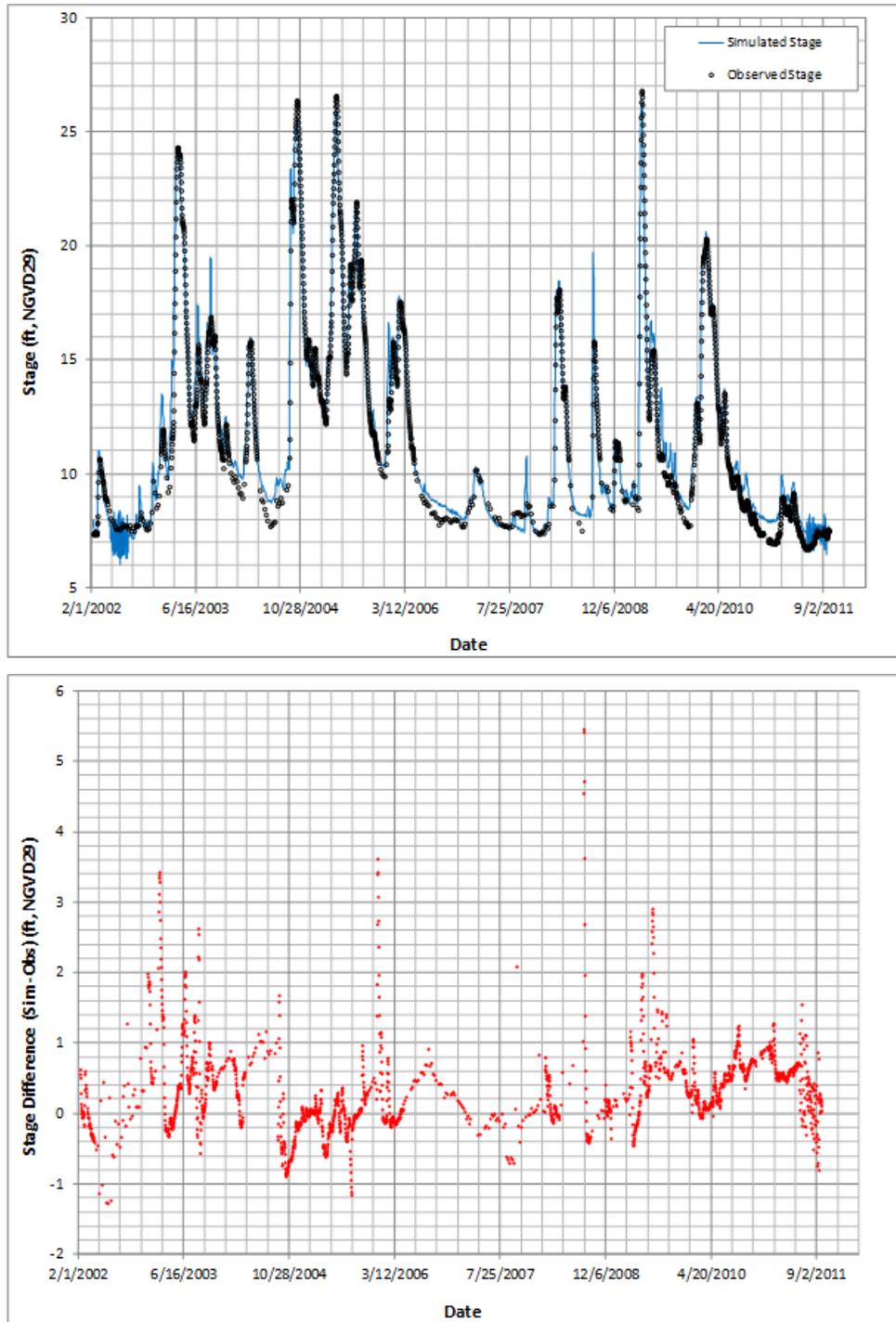


Figure 31. Time Series of Daily Simulated and Observed Stages at Three Rivers (top) and Stage Residuals (bottom)

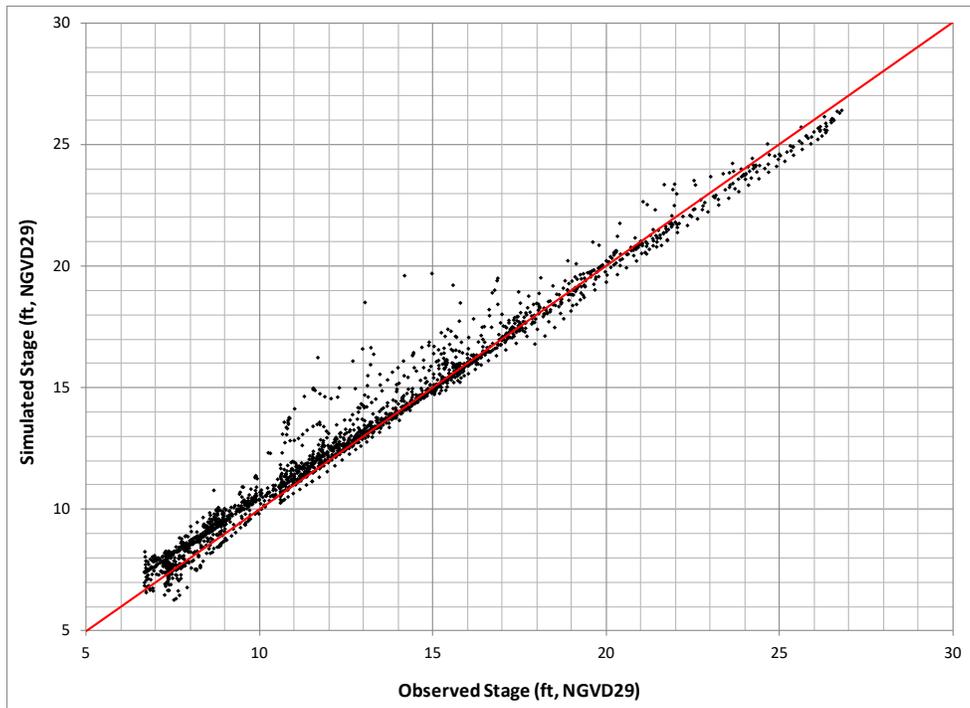


Figure 32. Scatter Plot Comparing Simulated and Observed Stages at Three Rivers (1:1 line)

Santa Fe River near Hildreth (USGS #02322800)

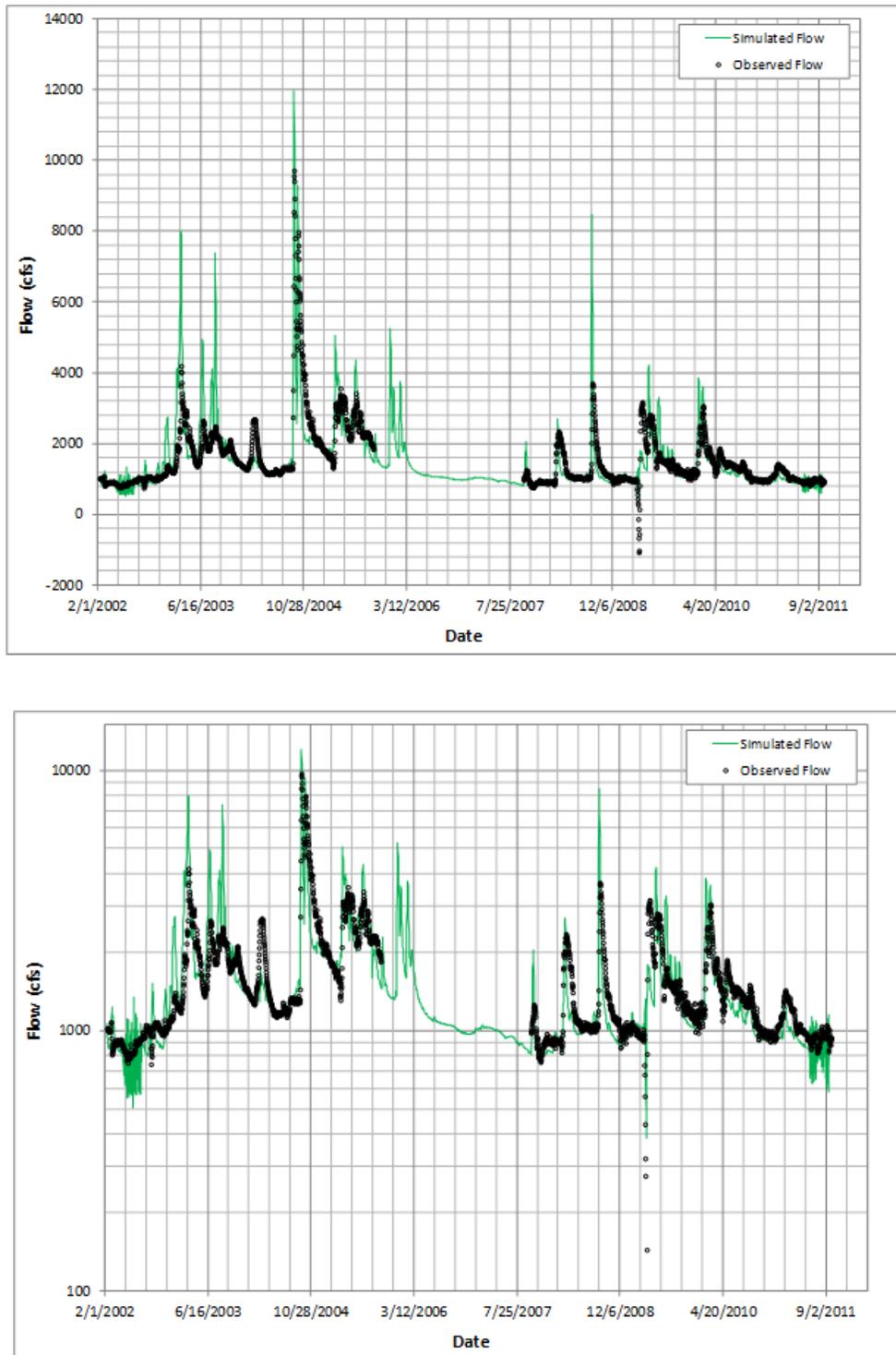


Figure 33. Time Series of Daily Simulated and Observed Flows at Hildreth: Untransformed (top) and Semi-Log (bottom)

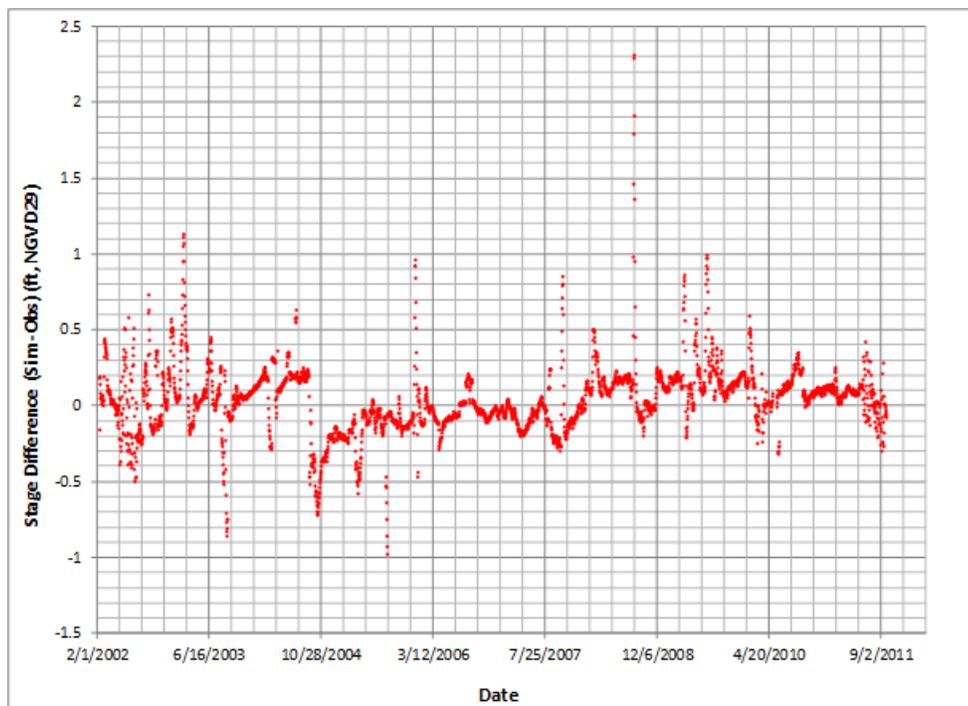
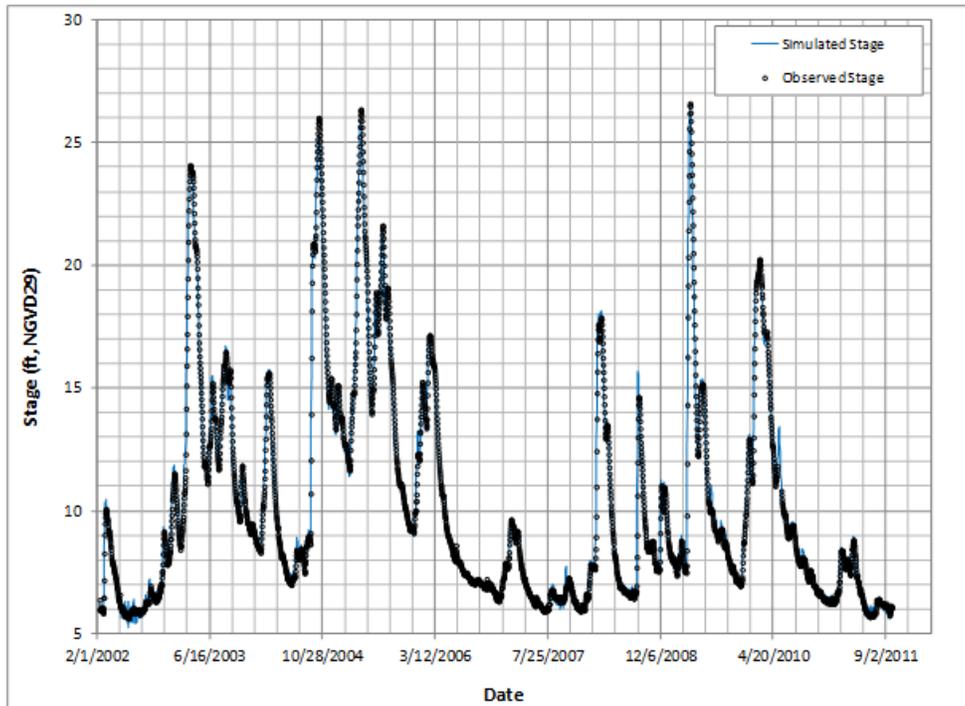


Figure 34. Time Series of Daily Simulated and Observed Stages at Hildreth (top) and Stage Residuals (bottom)

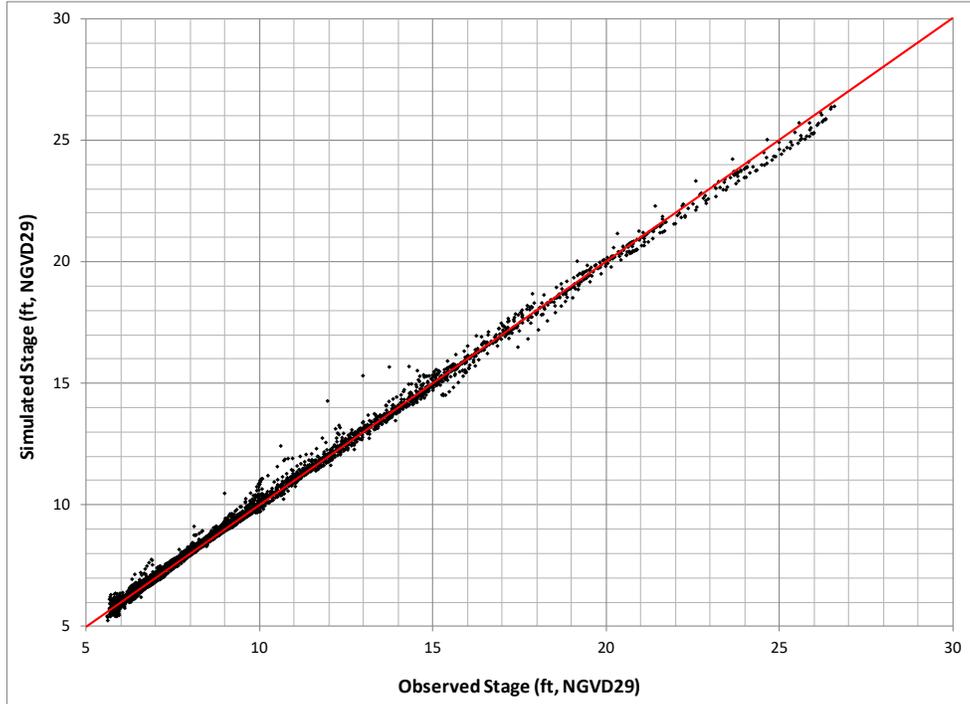


Figure 35. Scatter Plot Comparing Simulated and Observed Stages at Hildreth (1:1 line)

Ichetucknee River at Head Spring (USGS #02322685)

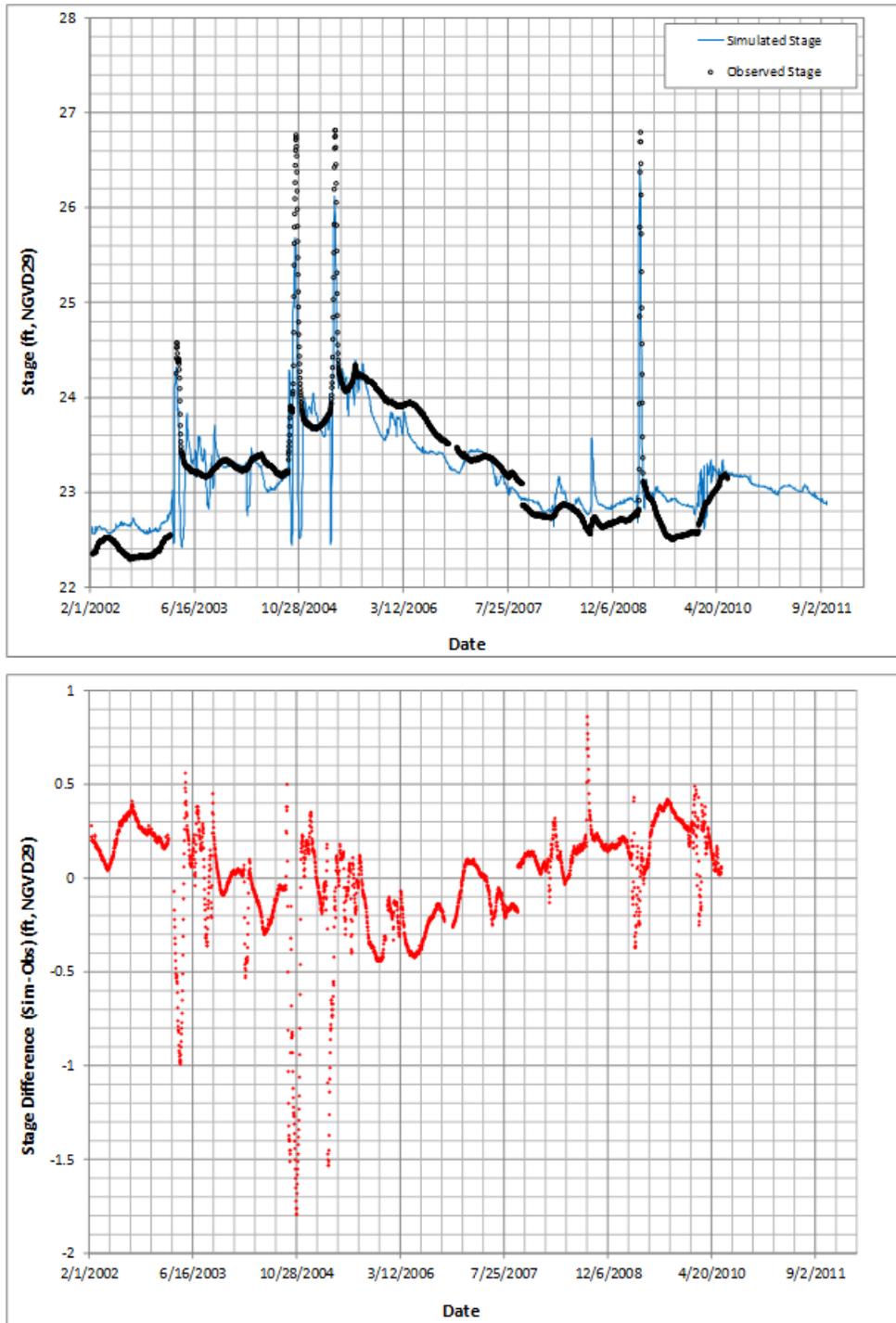


Figure 36. Time Series of Daily Simulated and Observed Stages at Head Spring (top) and Stage Residuals (bottom)

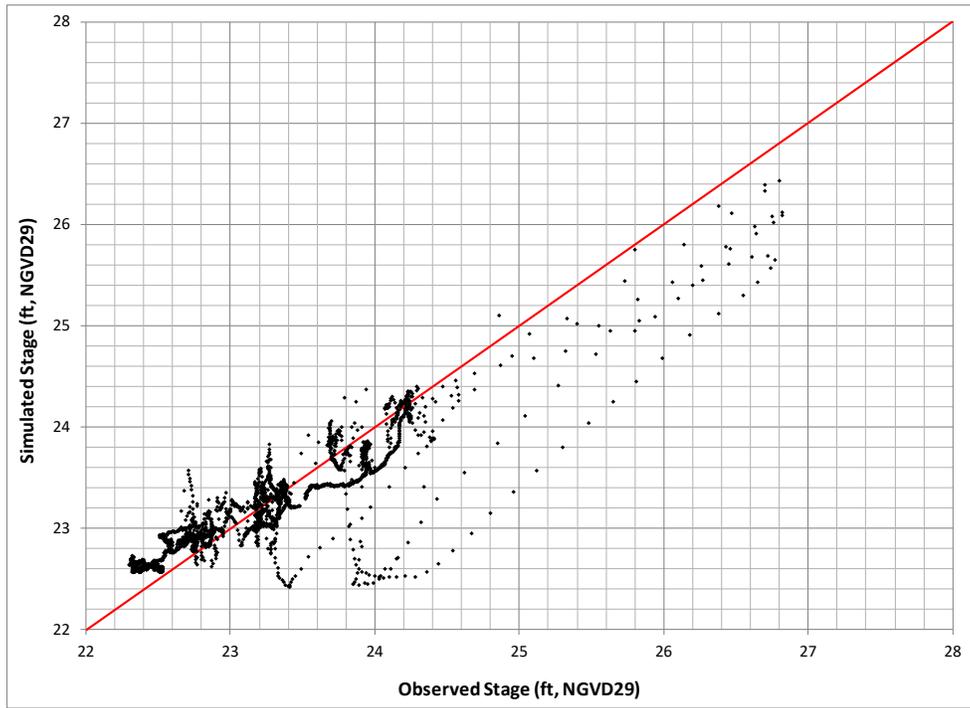


Figure 37. Scatter Plot Comparing Simulated and Observed Stages at Head Spring (1:1 line)

Ichetucknee River at Blue Hole Spring (USGS #02322688)

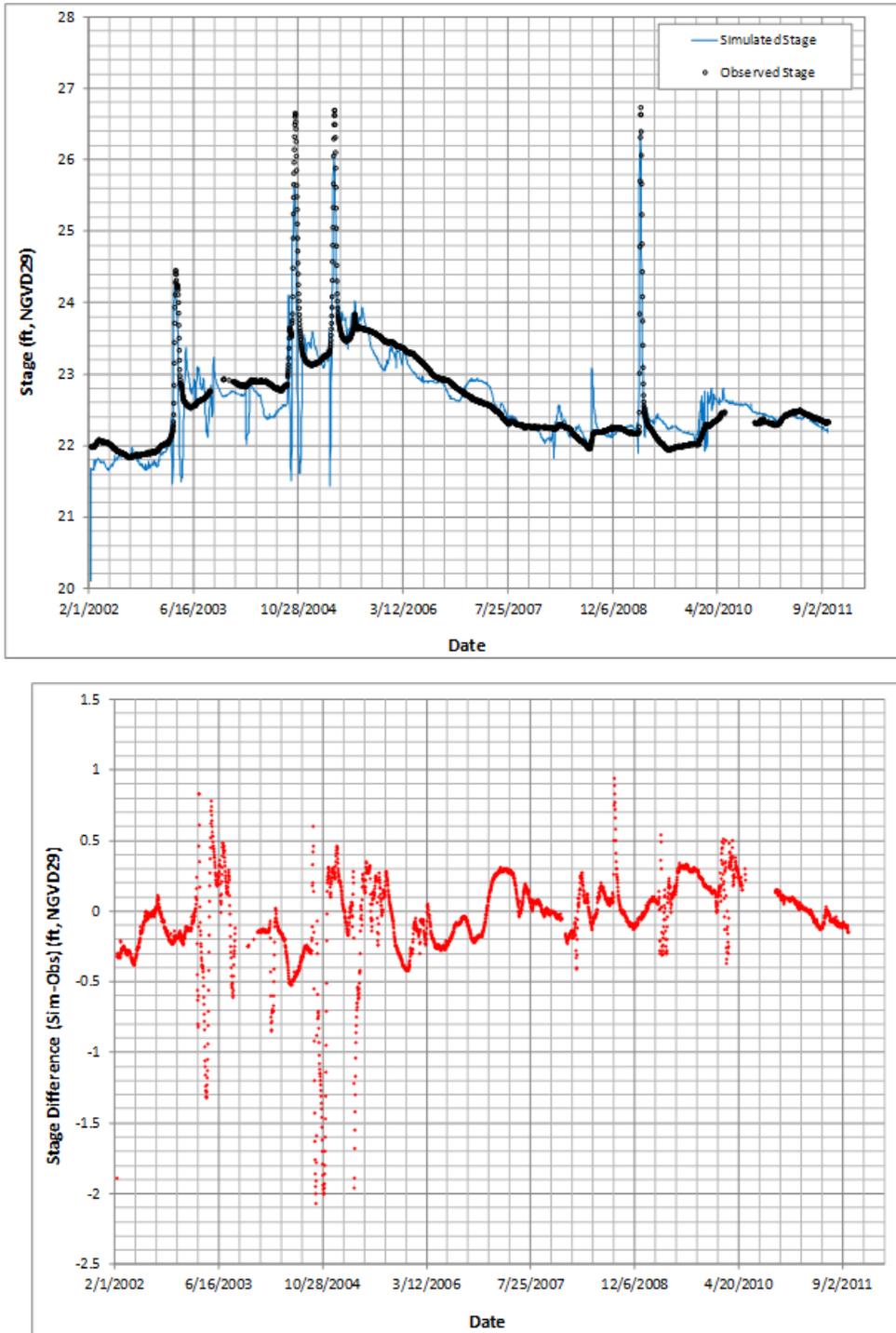


Figure 38. Time Series of Daily Simulated and Observed Stages at Blue Hole Spring (top) and Stage Residuals (bottom)

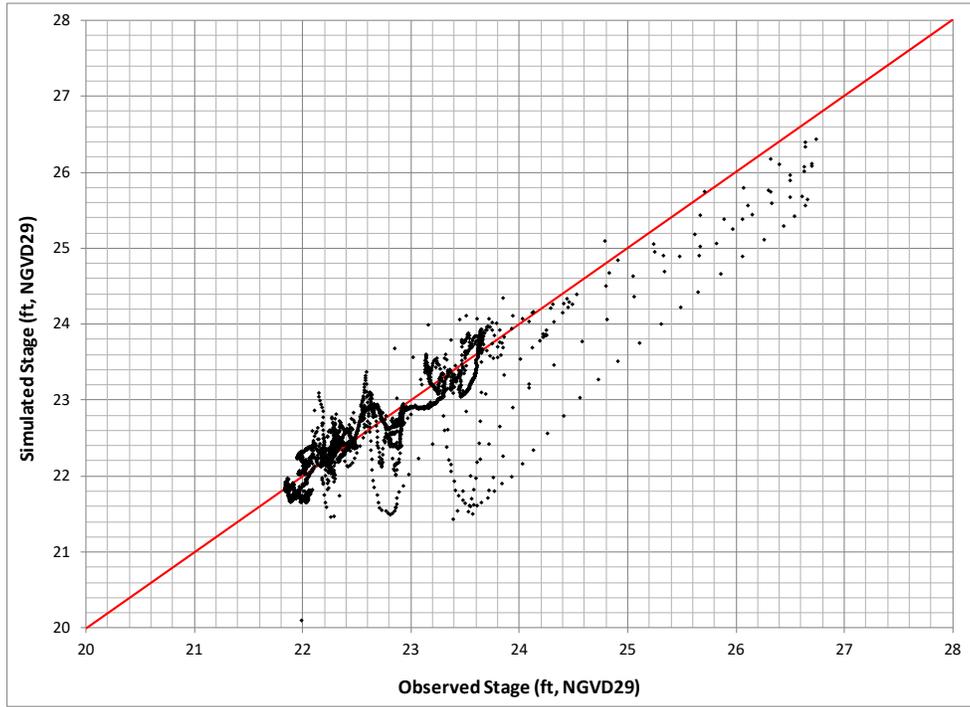


Figure 39. Scatter Plot Comparing Simulated and Observed Stages at Blue Hole Spring (1:1 line)

Ichetucknee River at Mission Spring (USGS #02322691)

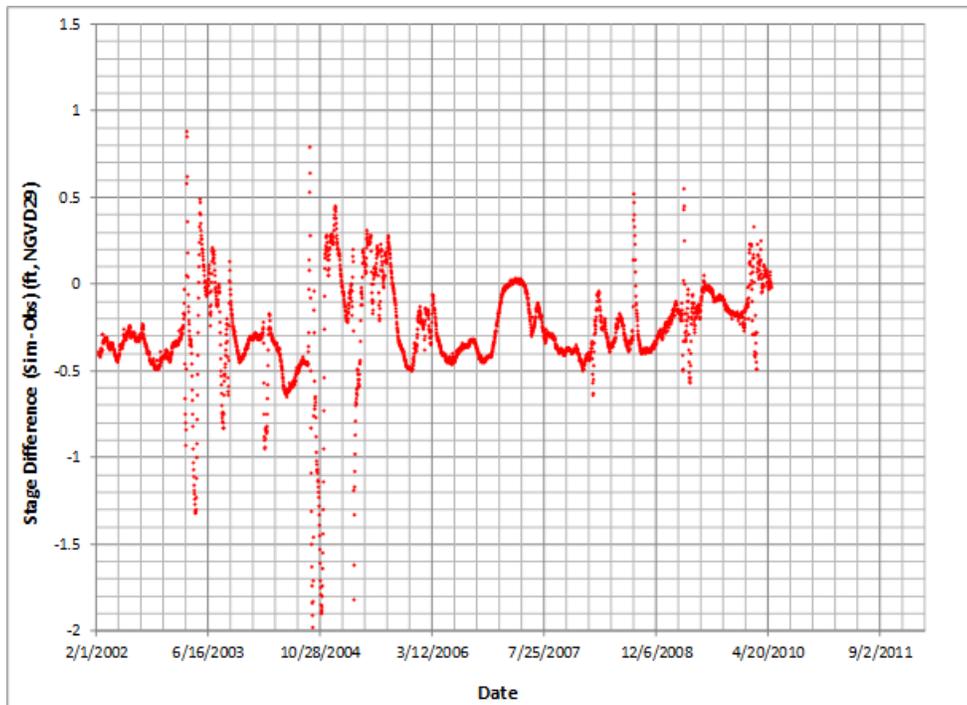
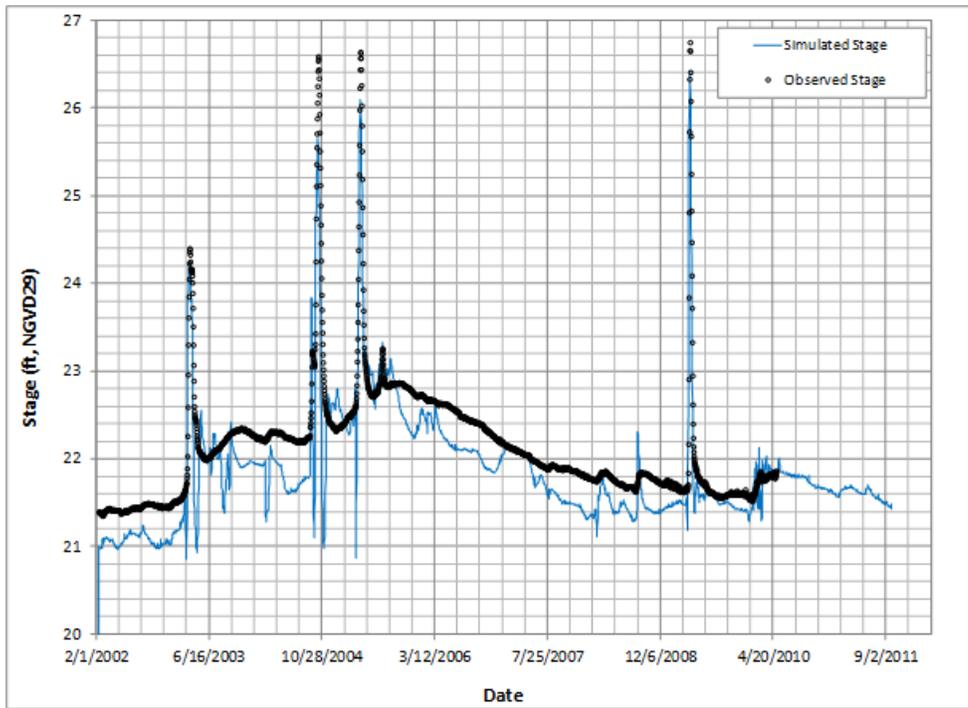


Figure 40. Time Series of Daily Simulated and Observed Stages at Mission Spring (top) and Stage Residuals (bottom)

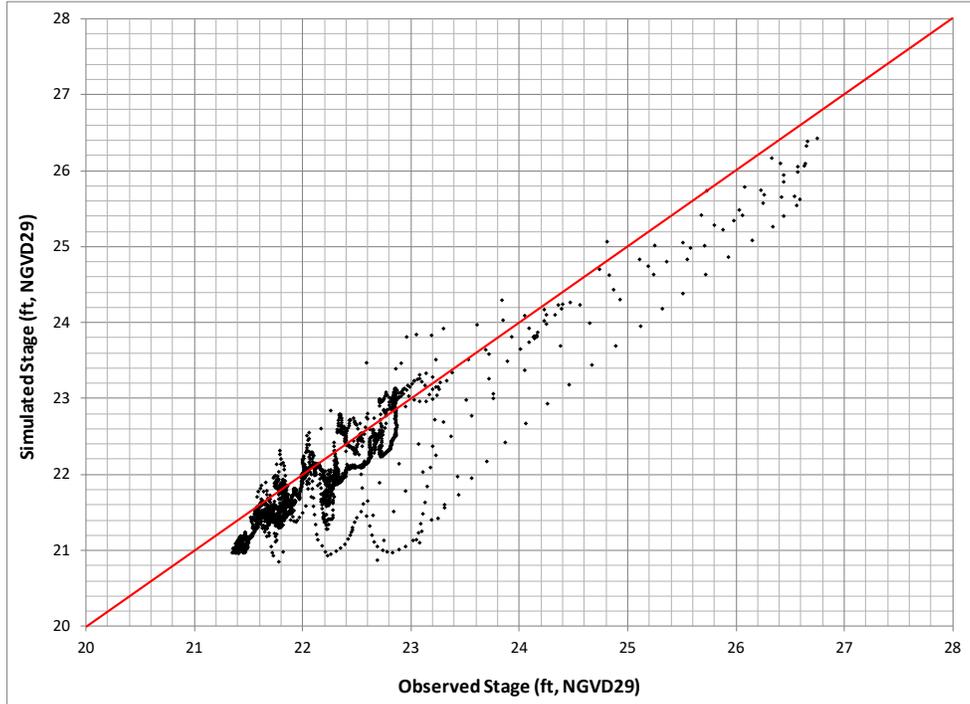


Figure 41. Scatter Plot Comparing Simulated and Observed Stages at Mission Spring (1:1 line)

Ichetucknee River at Devil's Eye Spring (USGS #02322694)

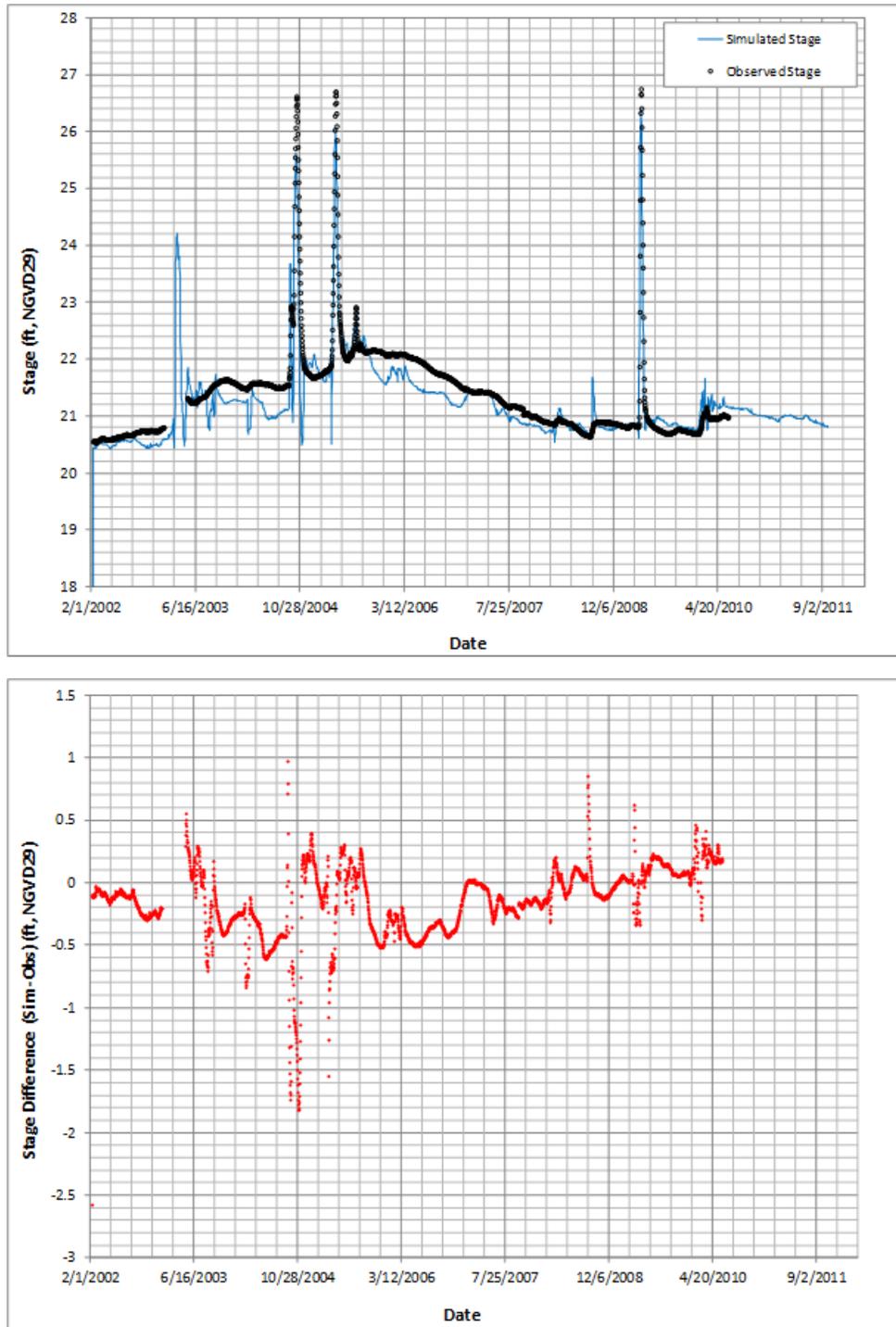


Figure 42. Time Series of Daily Simulated and Observed Stages at Devil's Eye Spring (top) and Stage Residuals (bottom)

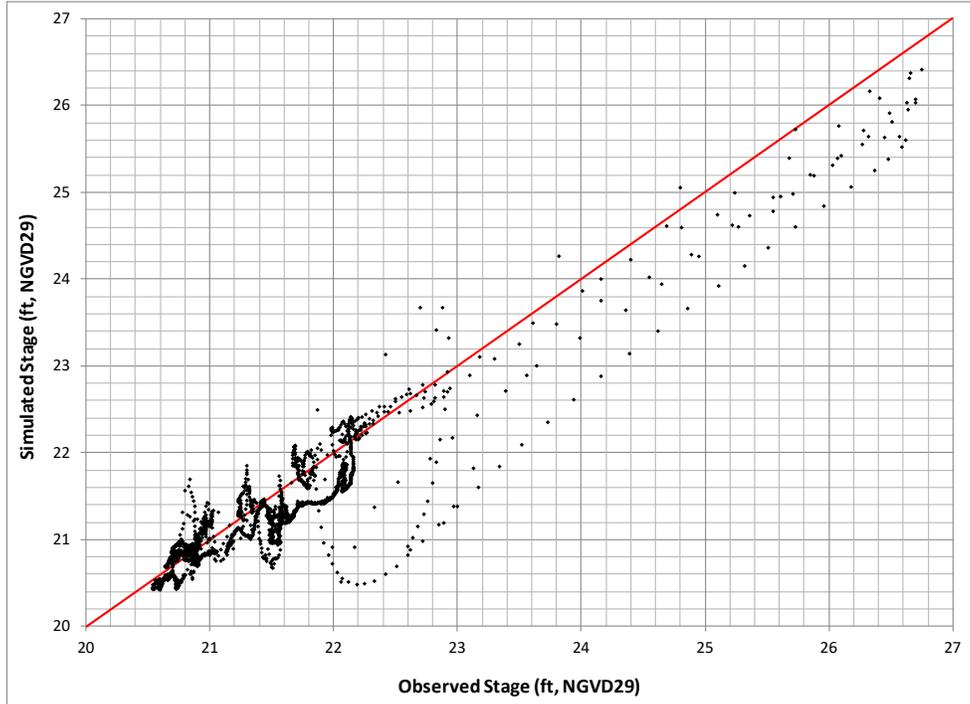


Figure 43. Scatter Plot Comparing Simulated and Observed Stages at Devil's Eye Spring (1:1 line)

Ichetucknee River at Mill Pond Spring (USGS #02322695)

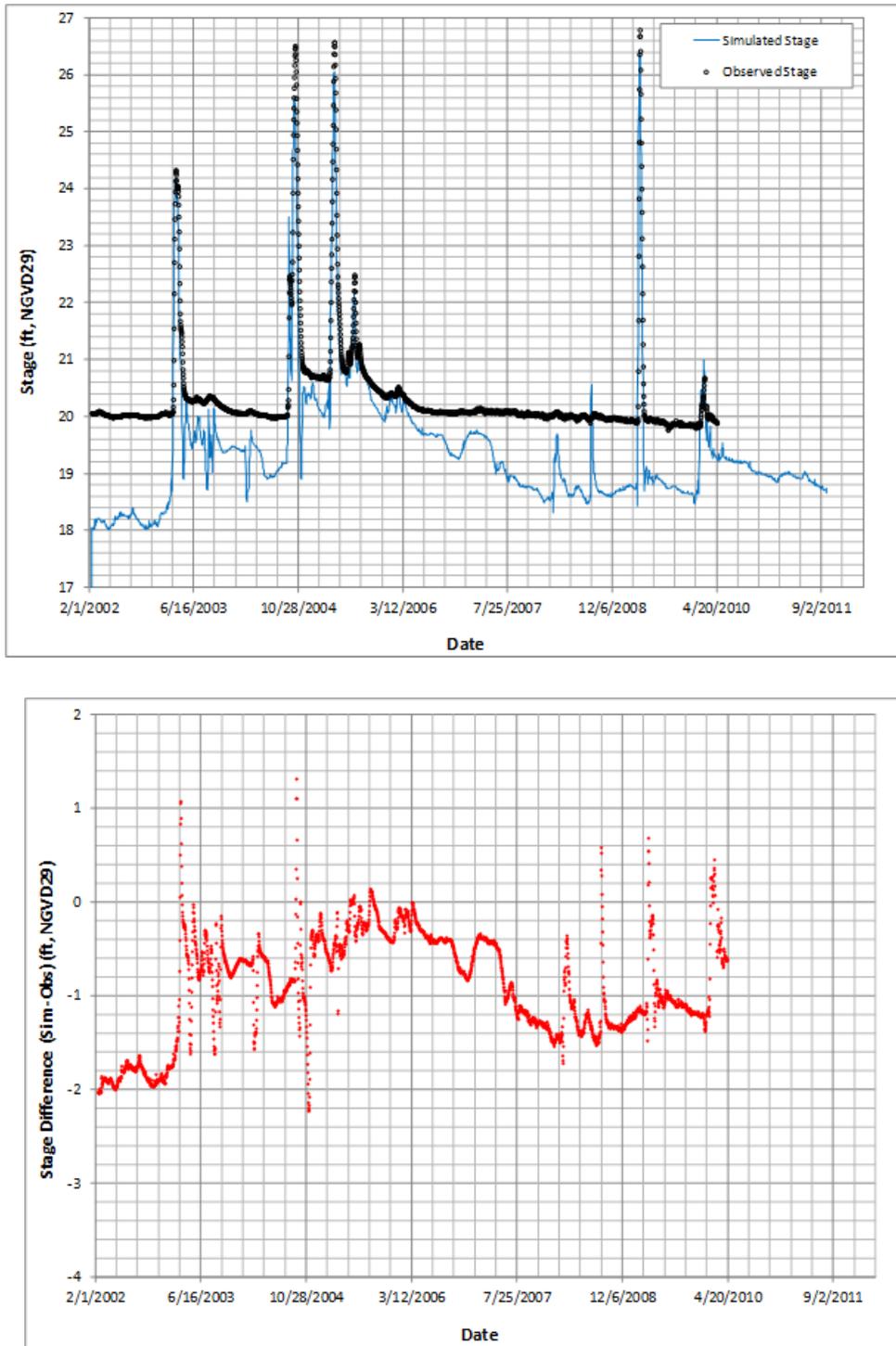


Figure 44. Time Series of Daily Simulated and Observed Stages at Mill Pond Spring (top) and Stage Residuals (bottom)

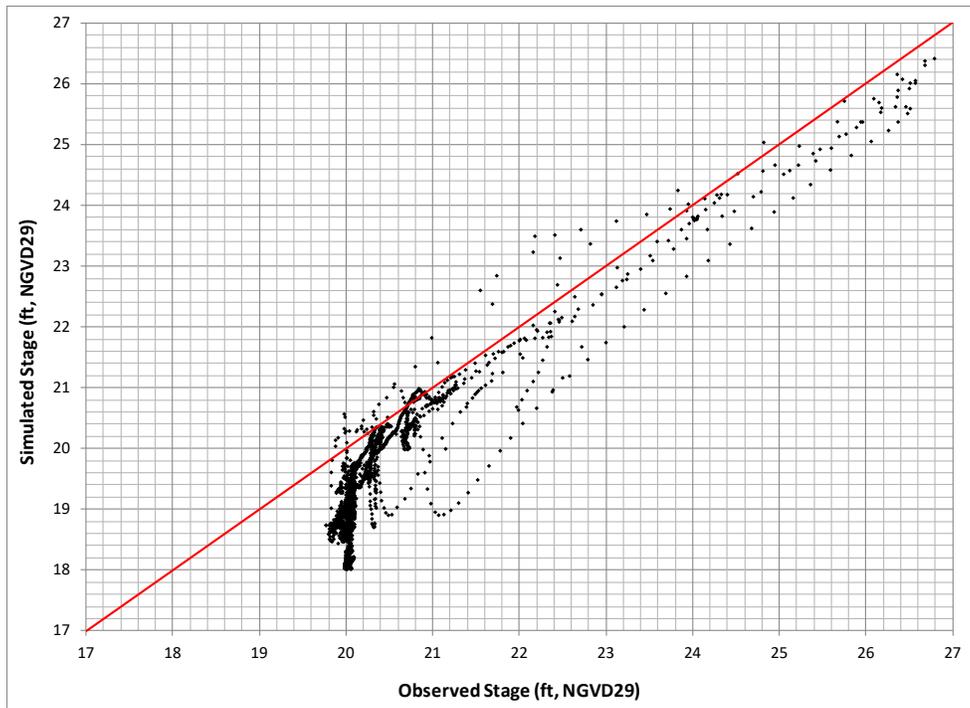


Figure 45. Scatter Plot Comparing Simulated and Observed Stages at Mill Pond Spring (1:1 line)

Ichetucknee River at Dampier's Landing near Hildreth (USGS #02322698)

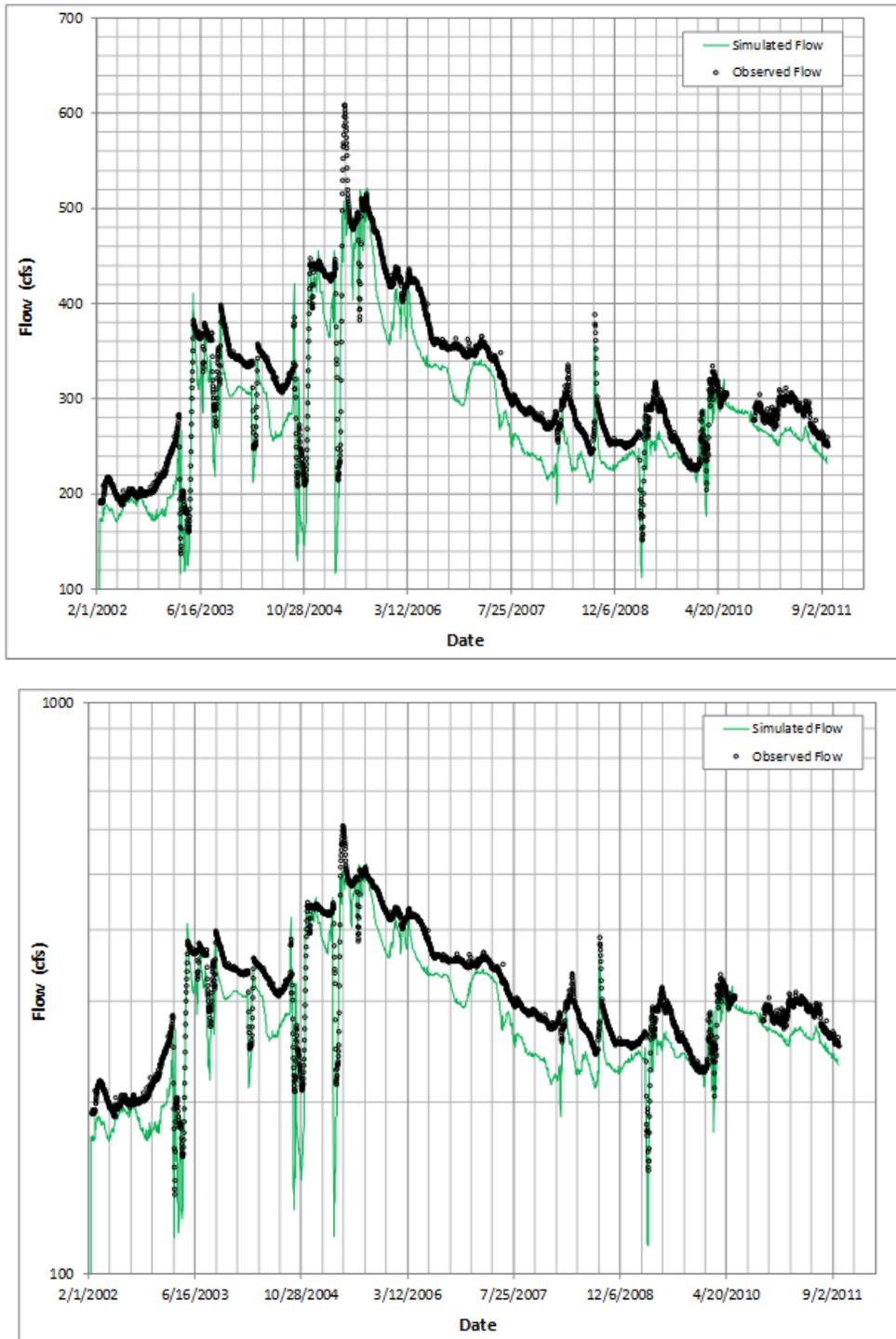


Figure 46. Time Series of Daily Simulated and Observed Flows at Dampier's Landing near Hildreth: Untransformed (top) and Semi-Log (bottom)

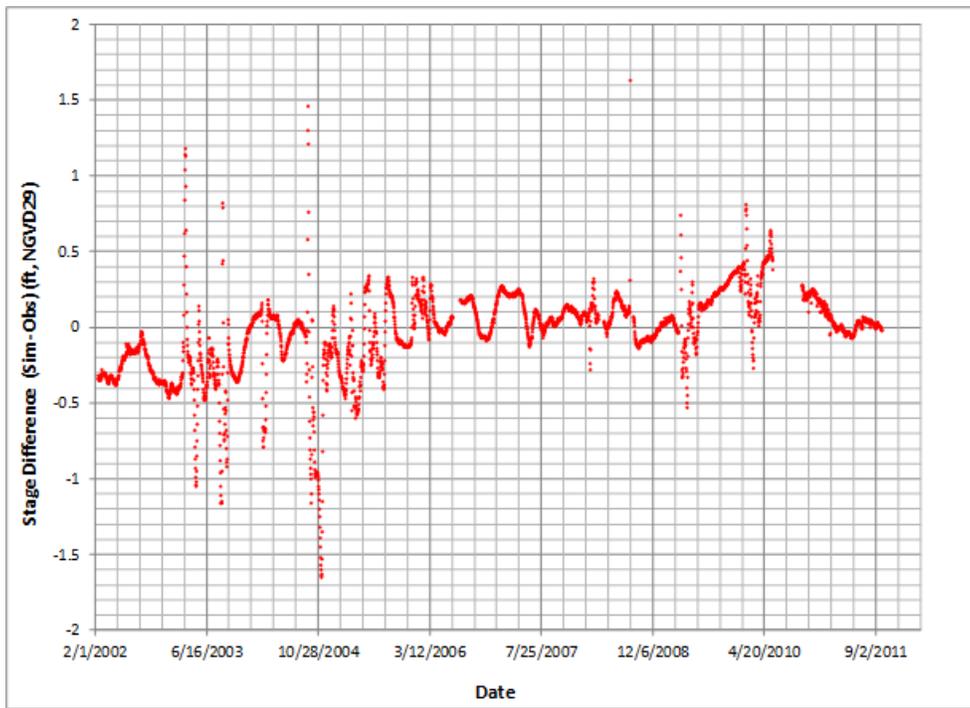
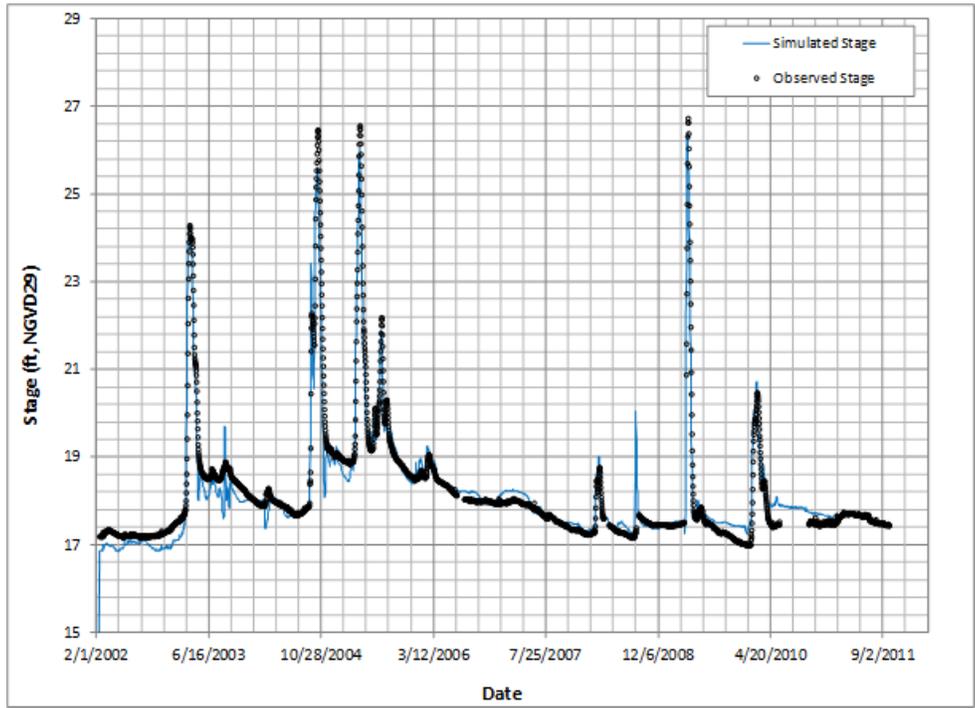


Figure 47. Time Series of Daily Simulated and Observed Stages at Dampier's Landing near Hildreth (top) and Stage Residuals (bottom)

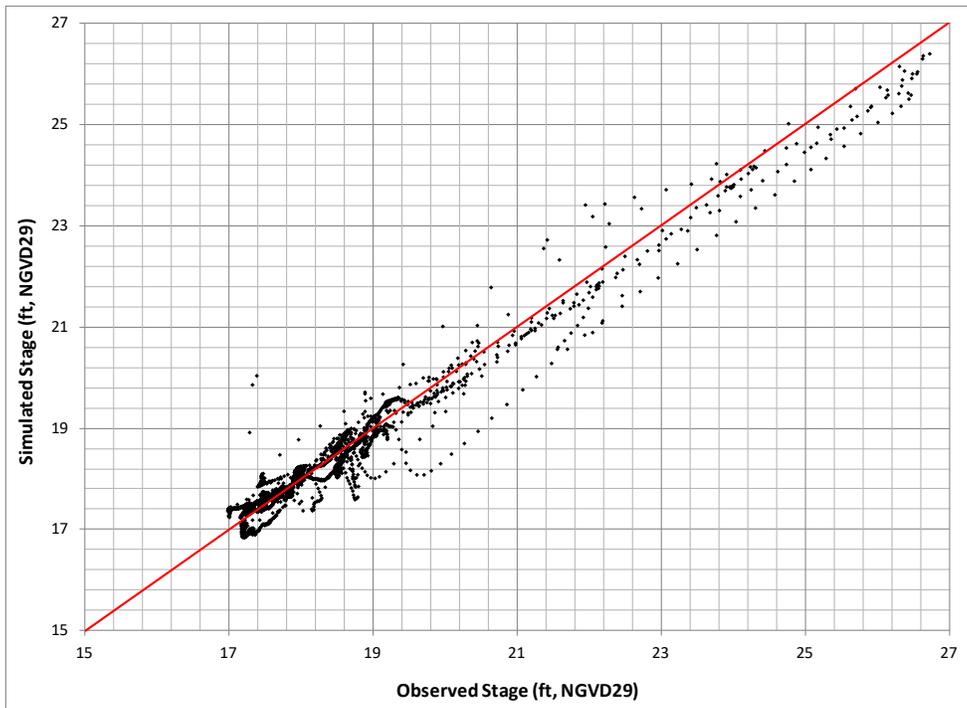


Figure 48. Scatter Plot Comparing Simulated and Observed Stages at Dampier's Landing near Hildreth (1:1 line)

Ichetucknee River at Highway 27 near Hildreth (USGS #0232270)

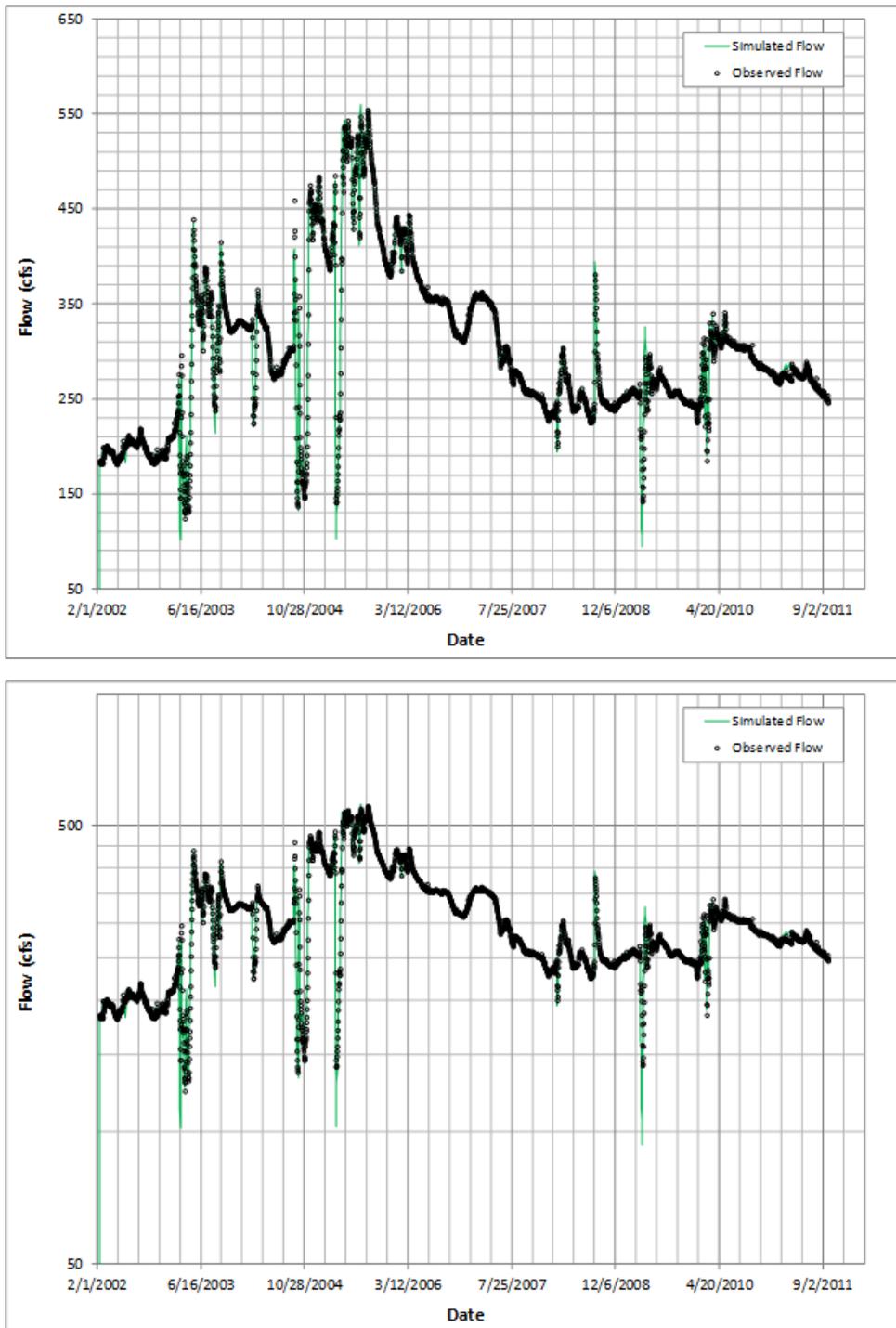


Figure 49. Time Series of Daily Simulated and Observed Flows at Highway 27 near Hildreth: Untransformed (top) and Semi-Log (bottom)

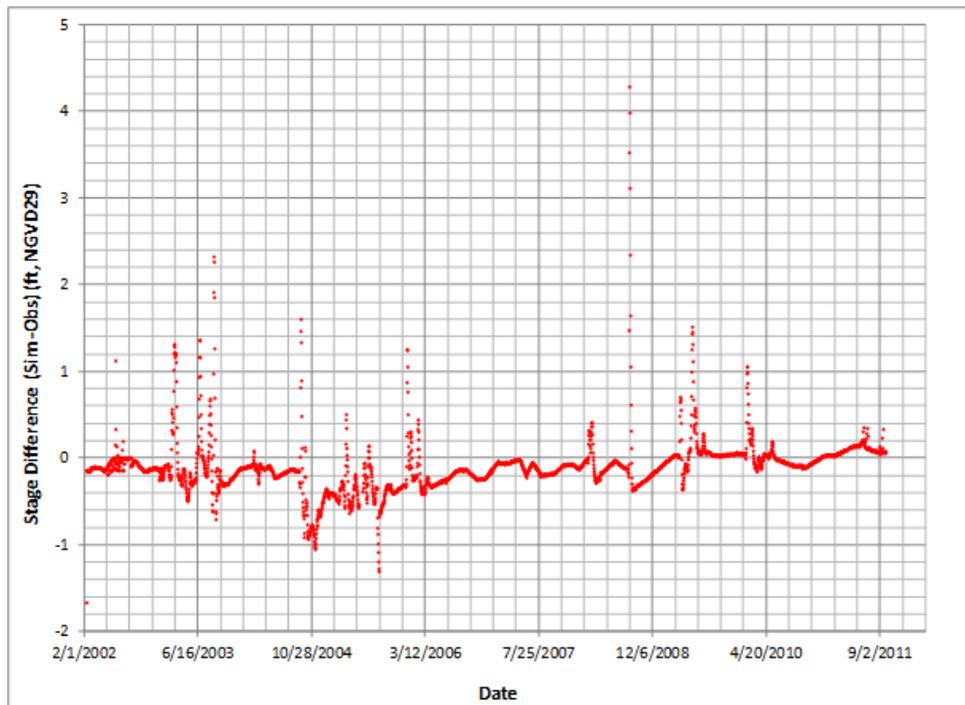
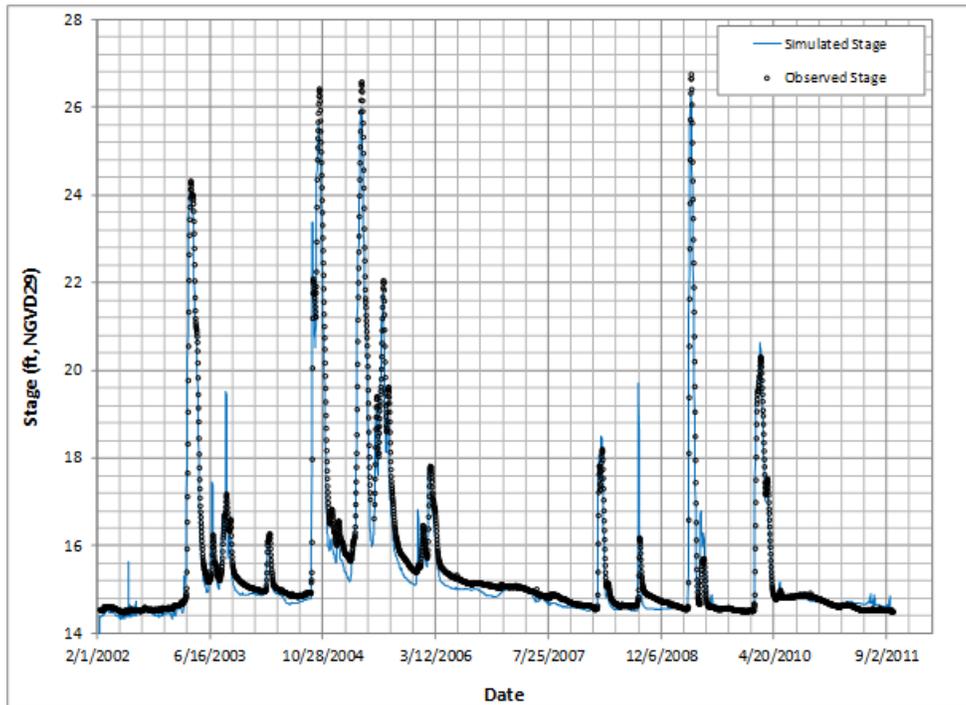


Figure 50. Time Series of Daily Simulated and Observed Stages at Highway 27 near Hildreth (top) and Stage Residuals (bottom)

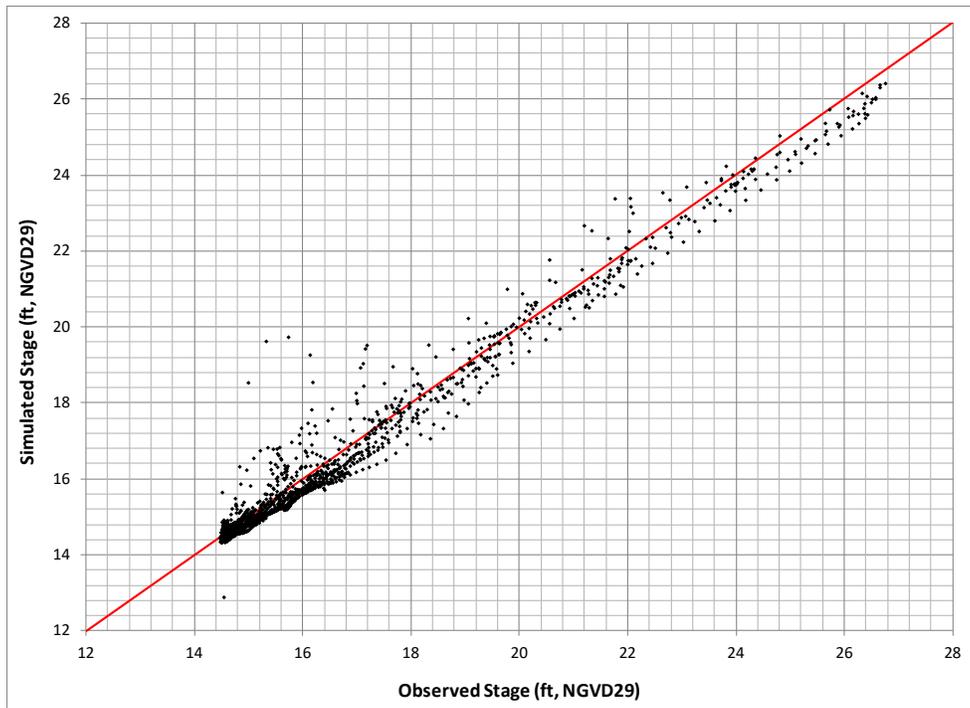


Figure 51. Scatter Plot Comparing Simulated and Observed Stages at Highway 27 near Hildreth (1:1 line)