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## Attachment A-2 – 2004 Hydrodynamic Model Validation Plots

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**USGS 02172050 Cooper River near Goose Creek, SC**

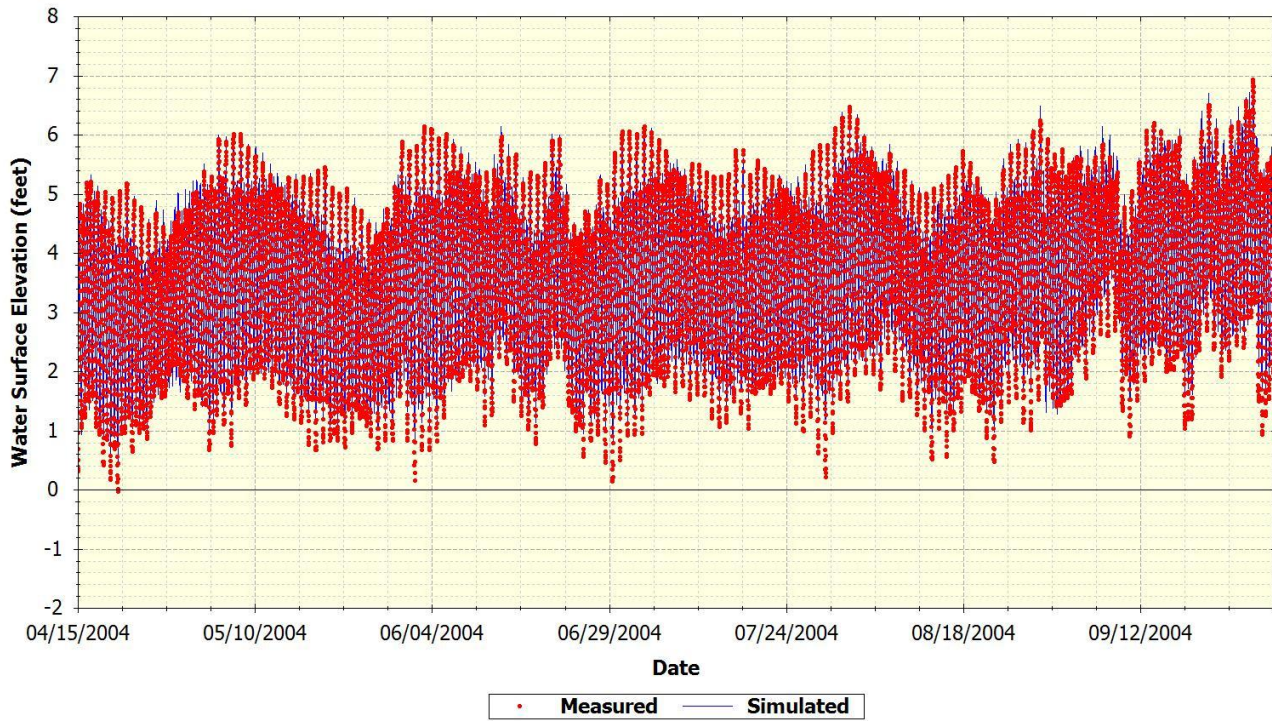


Figure B-1 Measured versus Simulated water surface elevation from April 15 to October 1, 2004 at USGS 02172050 Cooper River near Goose Creek, SC

**USGS 02172053 Cooper River at Mobay**

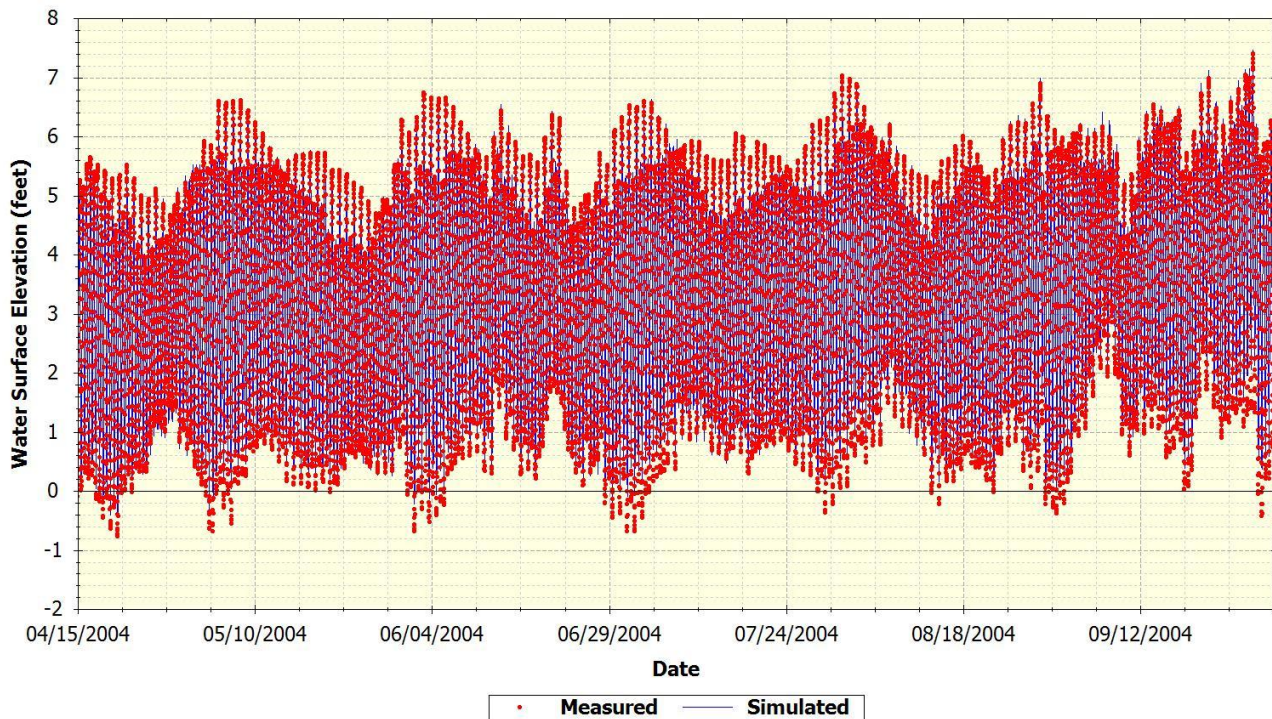


Figure B-2 Measured versus Simulated water surface elevation from April 15 to October 1, 2004 at USGS 02172053 Cooper River at Mobay



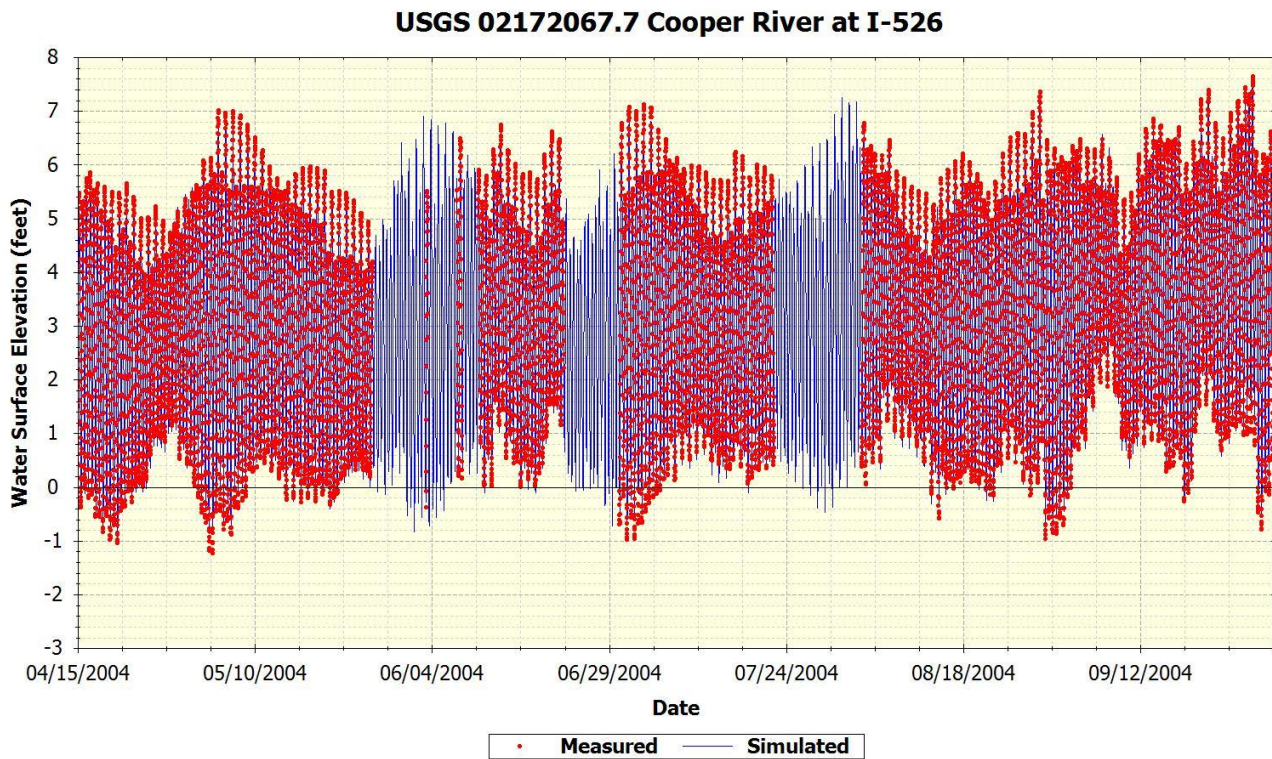


Figure B-3 Measured versus Simulated water surface elevation from April 15 to October 1, 2004 at USGS 02172067.7 Cooper River at I-526

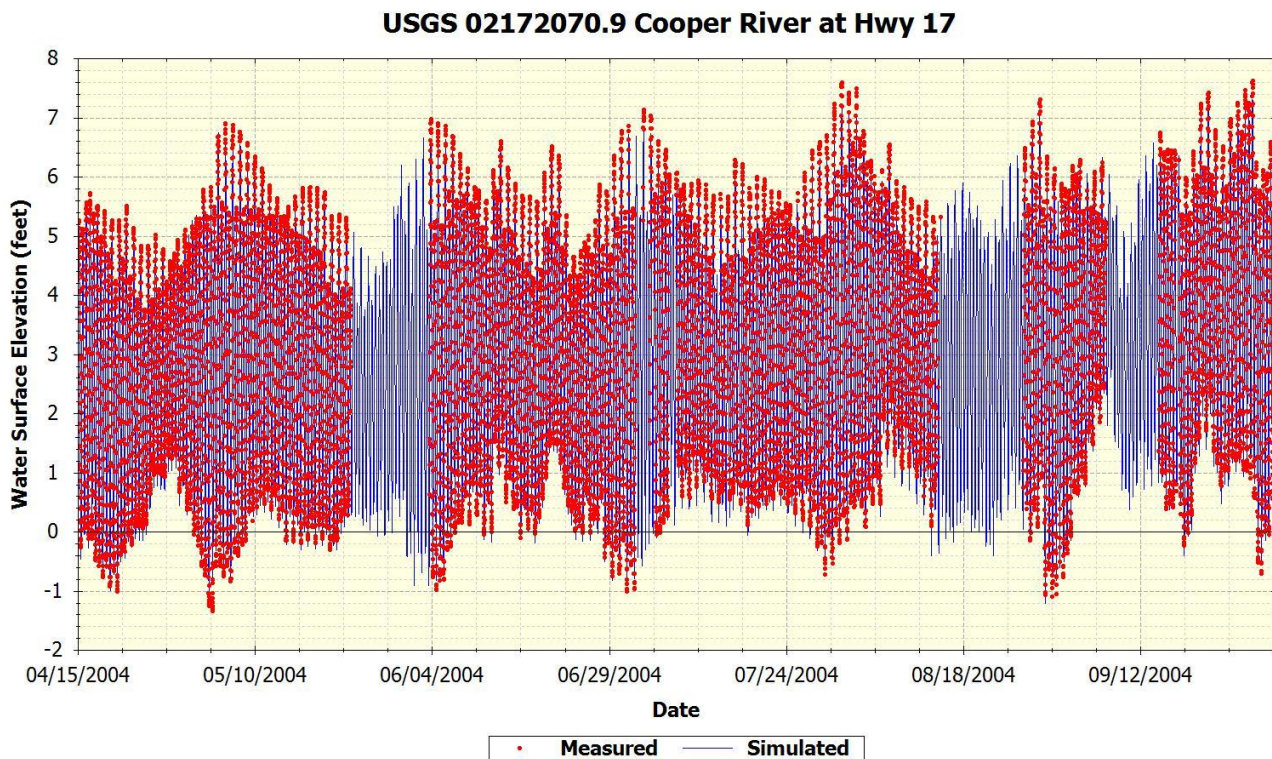


Figure B-4 Measured versus Simulated water surface elevation from April 15 to October 1, 2004 at USGS 02172070.9 Cooper River at Hwy 17



USGS 02172069.8 Wando River above Mt. Pleasant

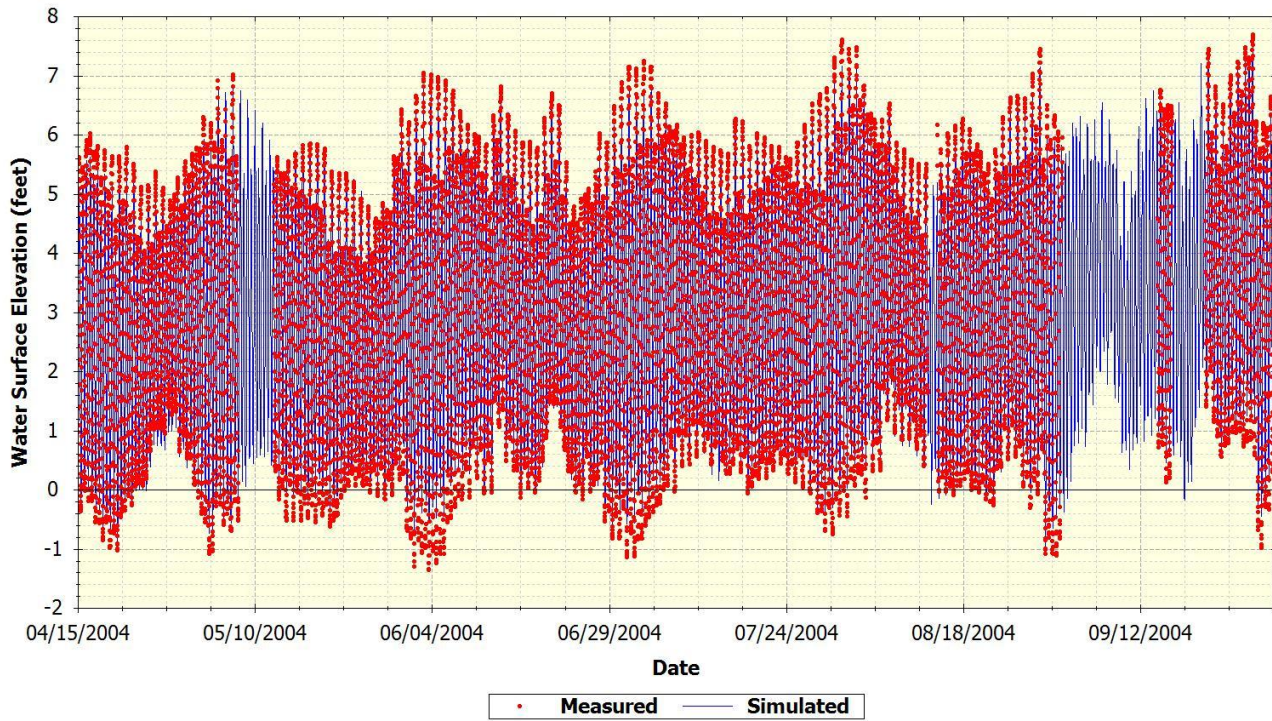


Figure B-5 Measured versus Simulated water surface elevation from April 15 to October 1, 2004 at USGS 02172069.8 Wando River above Mt. Pleasant

USGS 02172086.9 Ashley River near North Charleston

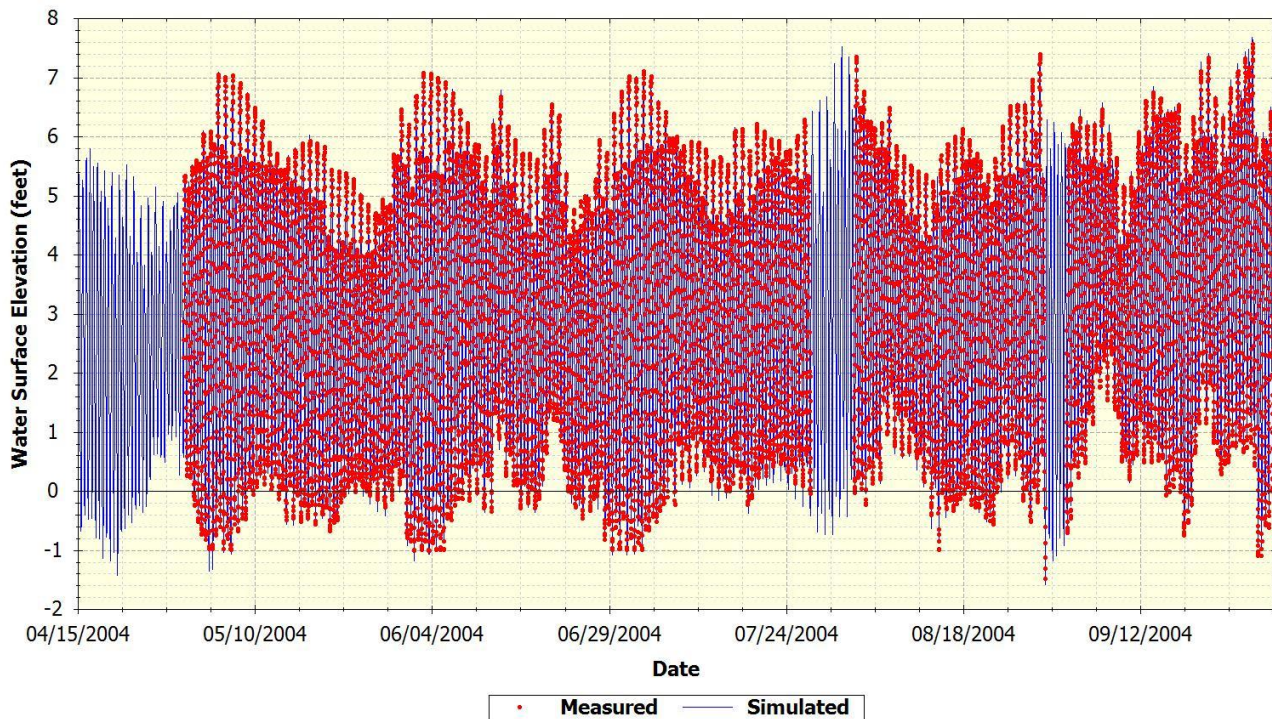


Figure B-6 Measured versus Simulated water surface elevation from April 15 to October 1, 2004 at USGS 02172086.9 Ashley River near North Charleston



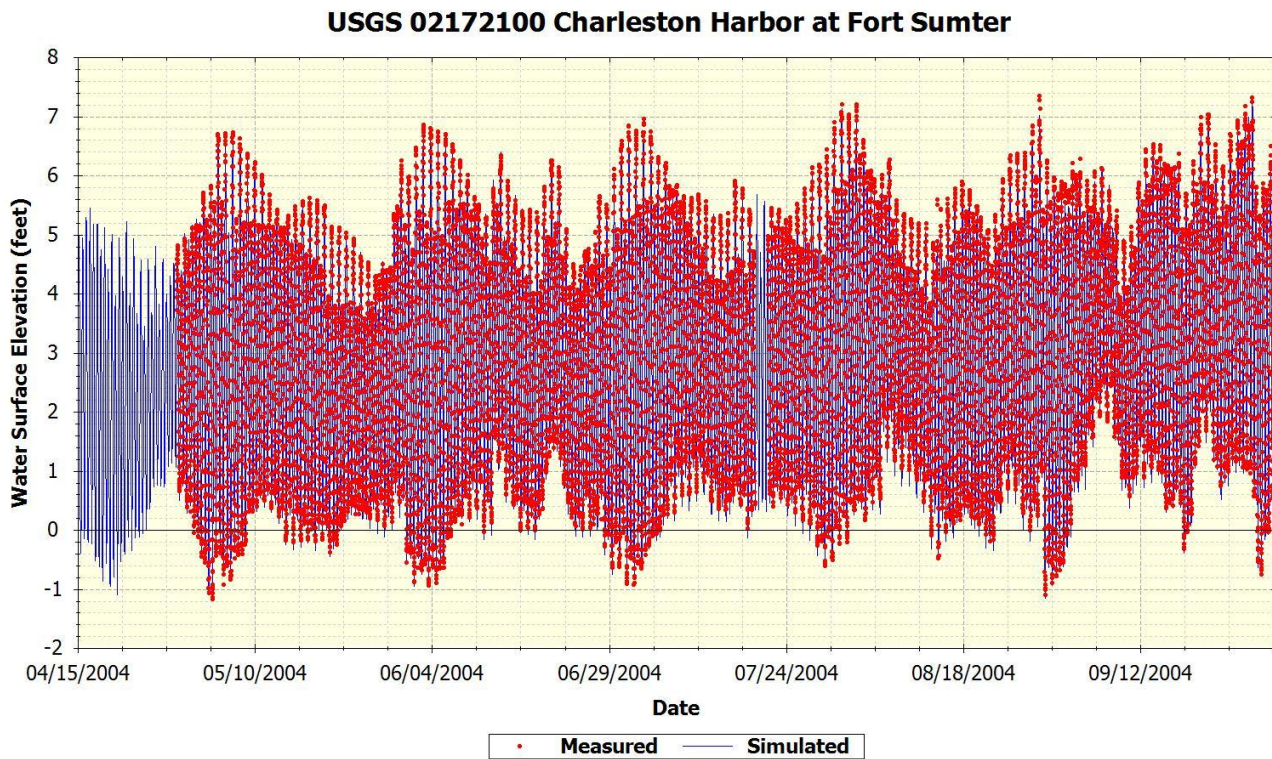


Figure B-7 Measured versus Simulated water surface elevation from April 15 to October 1, 2004 at USGS 02172100 Charleston Harbor at Fort Sumter

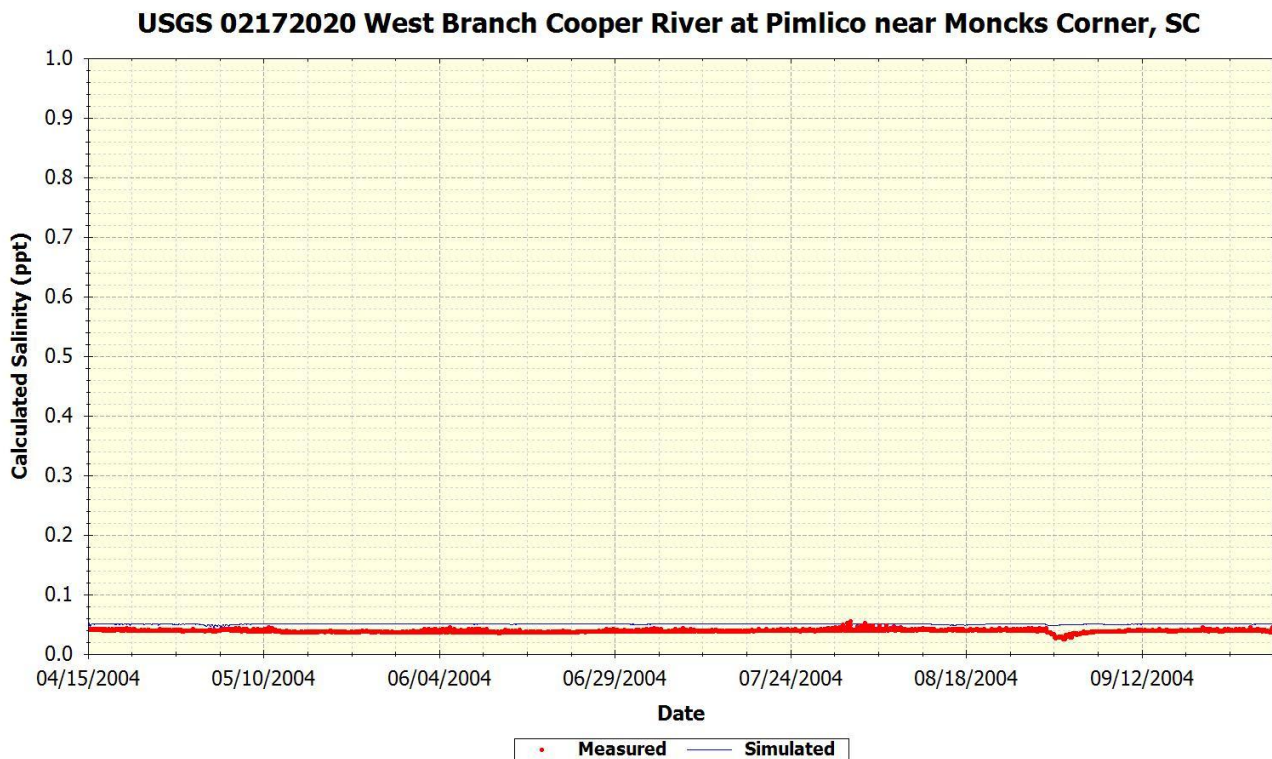


Figure B-8 Measured versus Simulated salinity at from April 15 to October 1, 2004 at USGS 02172020 Cooper River near Moncks Corner



**USGS 02172050 Cooper River near Goose Creek, SC**

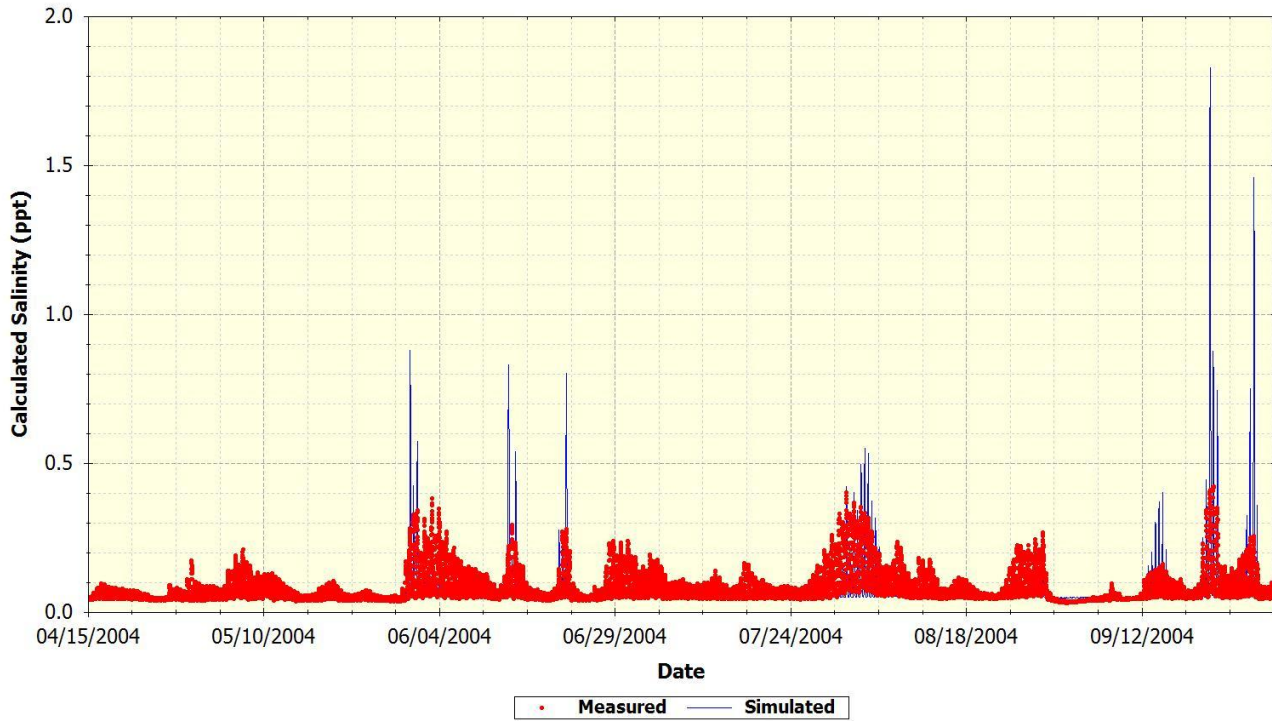


Figure B-9 Measured versus Simulated salinity at from April 15 to October 1, 2004 at USGS 02172050 Cooper River near Goose Creek

**USGS 02172053 Cooper River at Mobay**

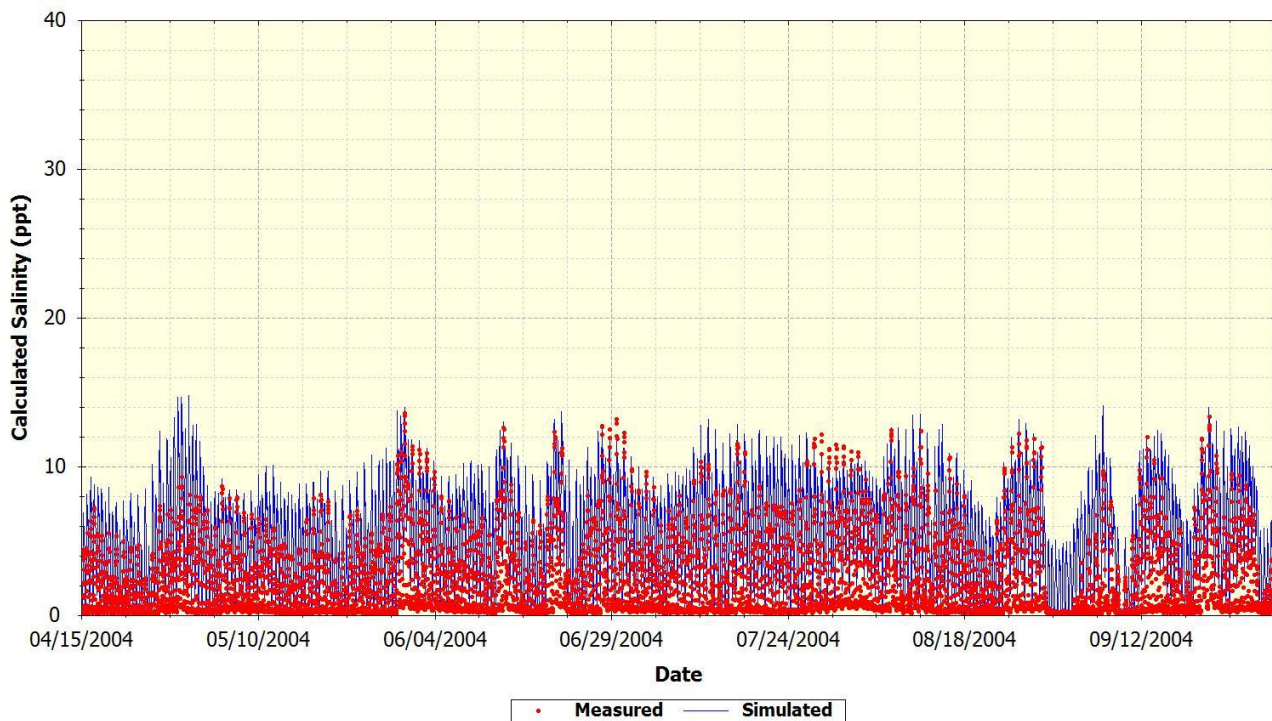


Figure B-10 Measured versus Simulated salinity at from April 15 to October 1, 2004 at USGS 02172053 Cooper River at Mobay

**USGS 02172067.7 Cooper River at I-526**

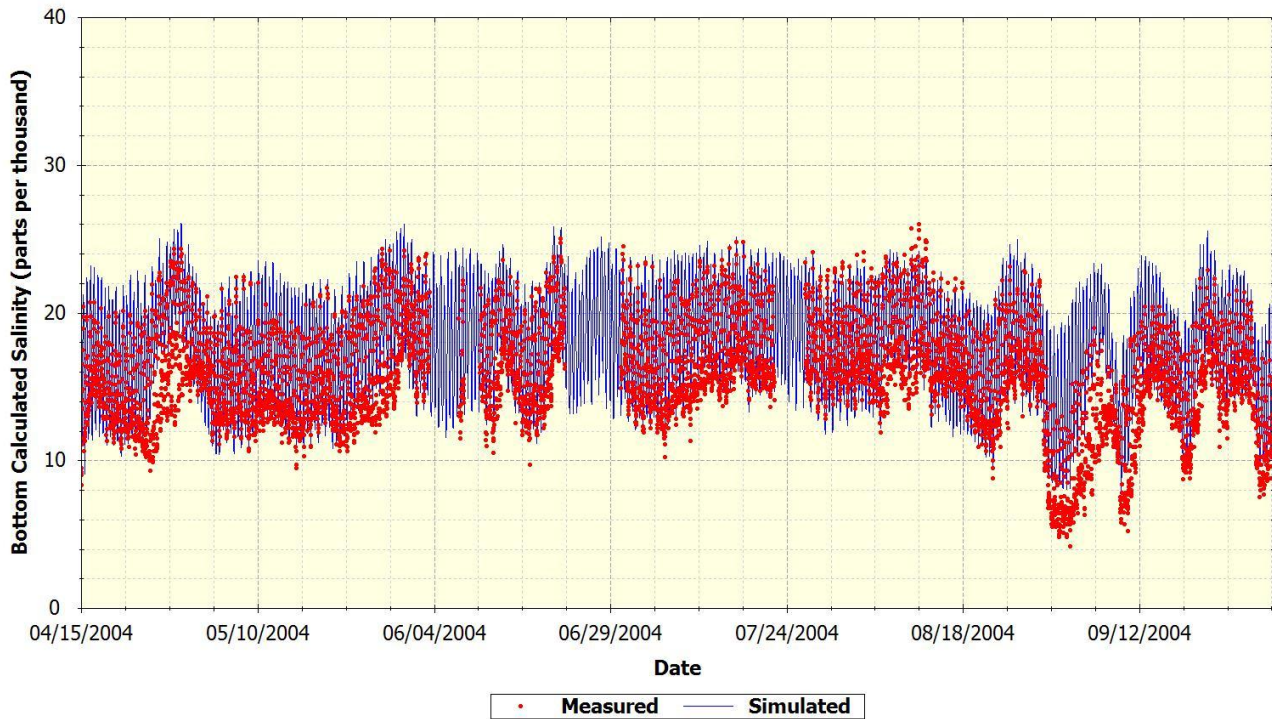


Figure B-11 Measured versus Simulated bottom salinity from April 15 to October 1, 2004 at USGS 02172067.7 Cooper River at I-526

**USGS 02172067.7 Cooper River at I-526**

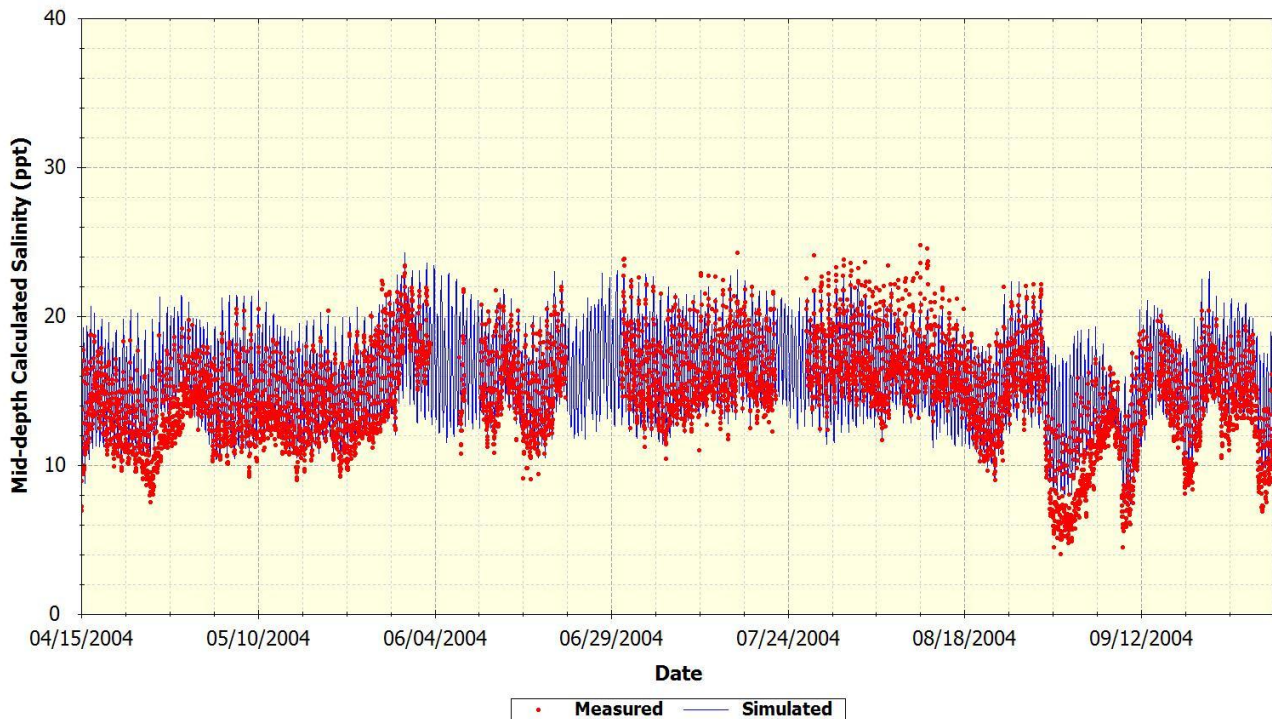


Figure B-12 Measured versus Simulated mid-depth salinity from April 15 to October 1, 2004 at USGS 02172067.7 Cooper River at I-526



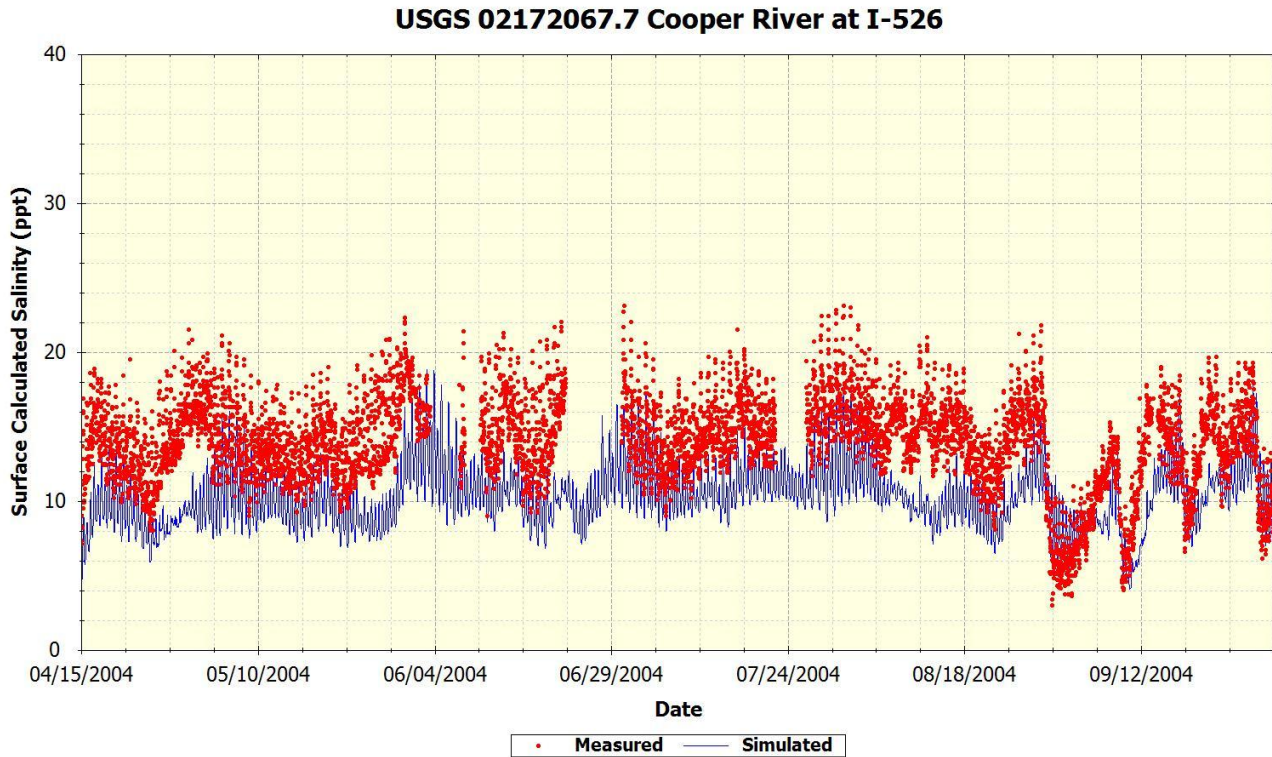


Figure B-13 Measured versus Simulated surface salinity from April 15 to October 1, 2004 at USGS 02172067.7 Cooper River at I-526

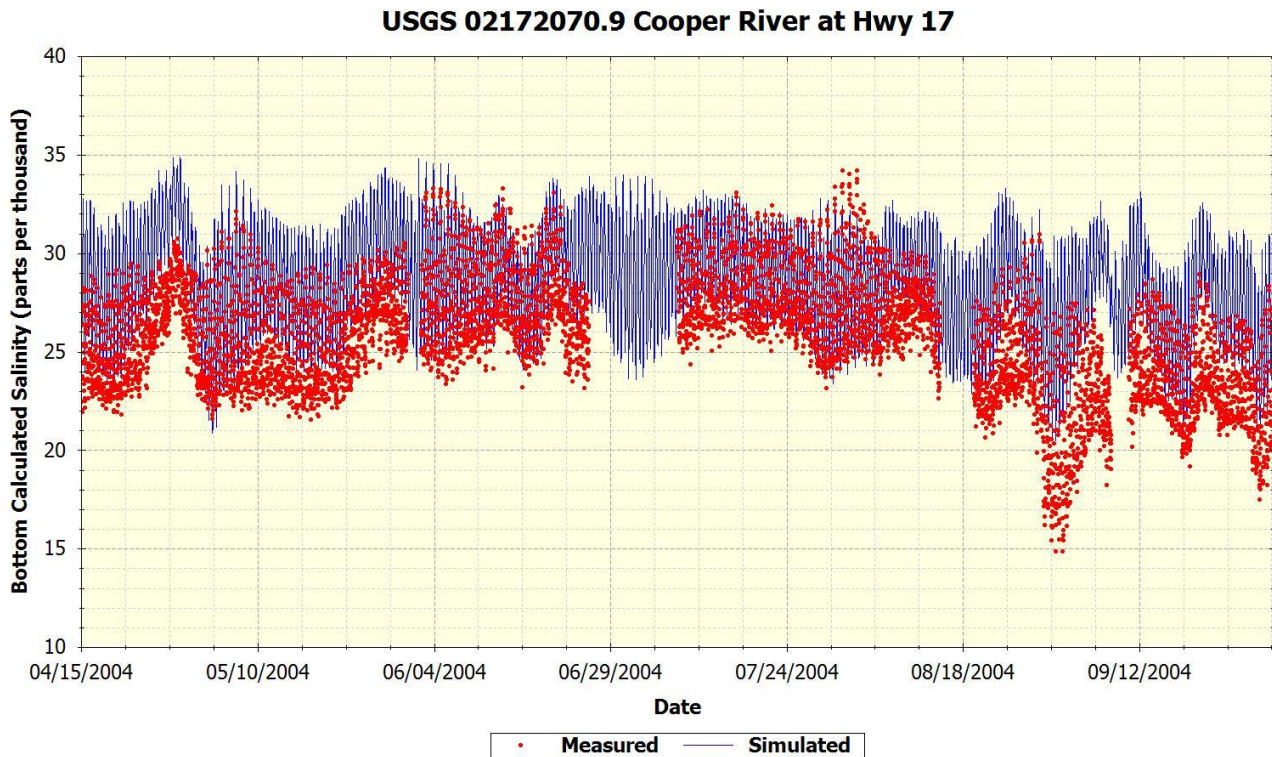


Figure B-14 Measured versus Simulated bottom salinity from April 15 to October 1, 2004 at USGS 02172070.9 Cooper River at Hwy 17

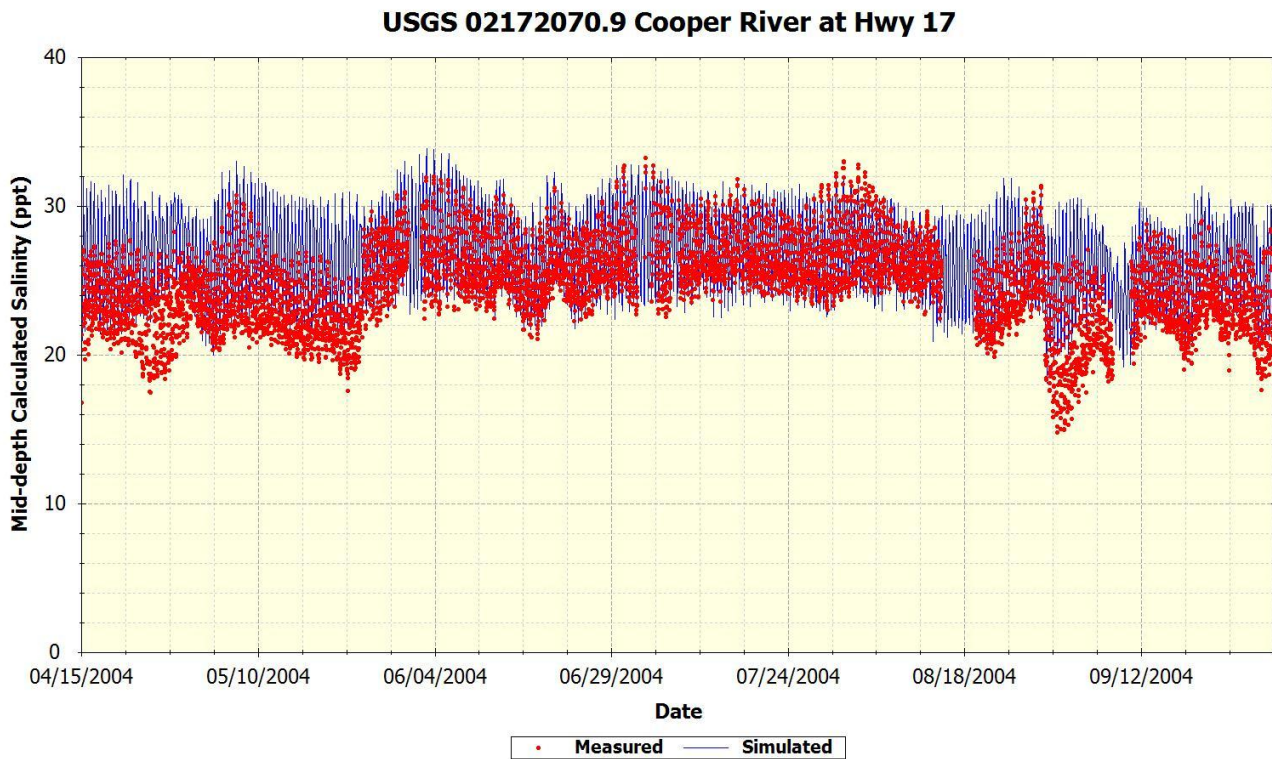


Figure B-15 Measured versus Simulated mid-depth salinity from April 15 to October 1, 2004 at USGS 02172070.9 Cooper River at Hwy 17

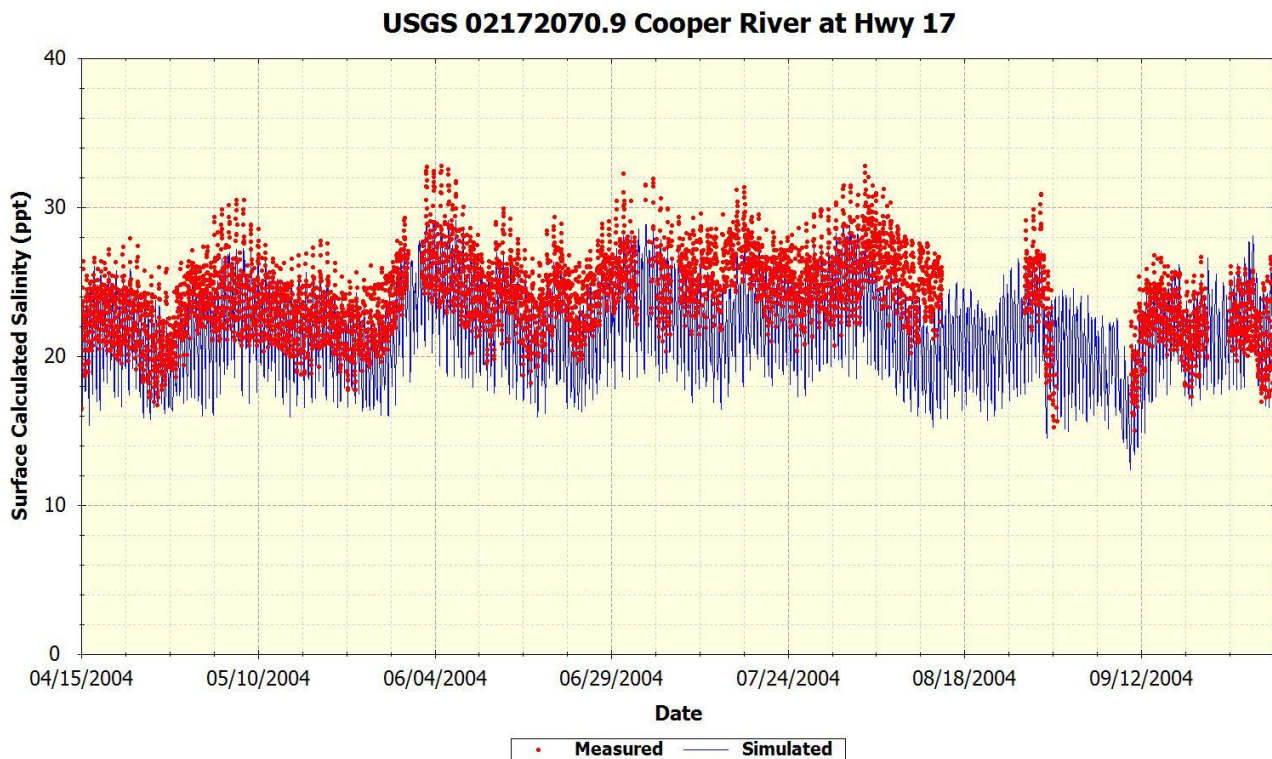


Figure B-16 Measured versus Simulated surface salinity from April 15 to October 1, 2004 at USGS 02172070.9 Cooper River at Hwy 17



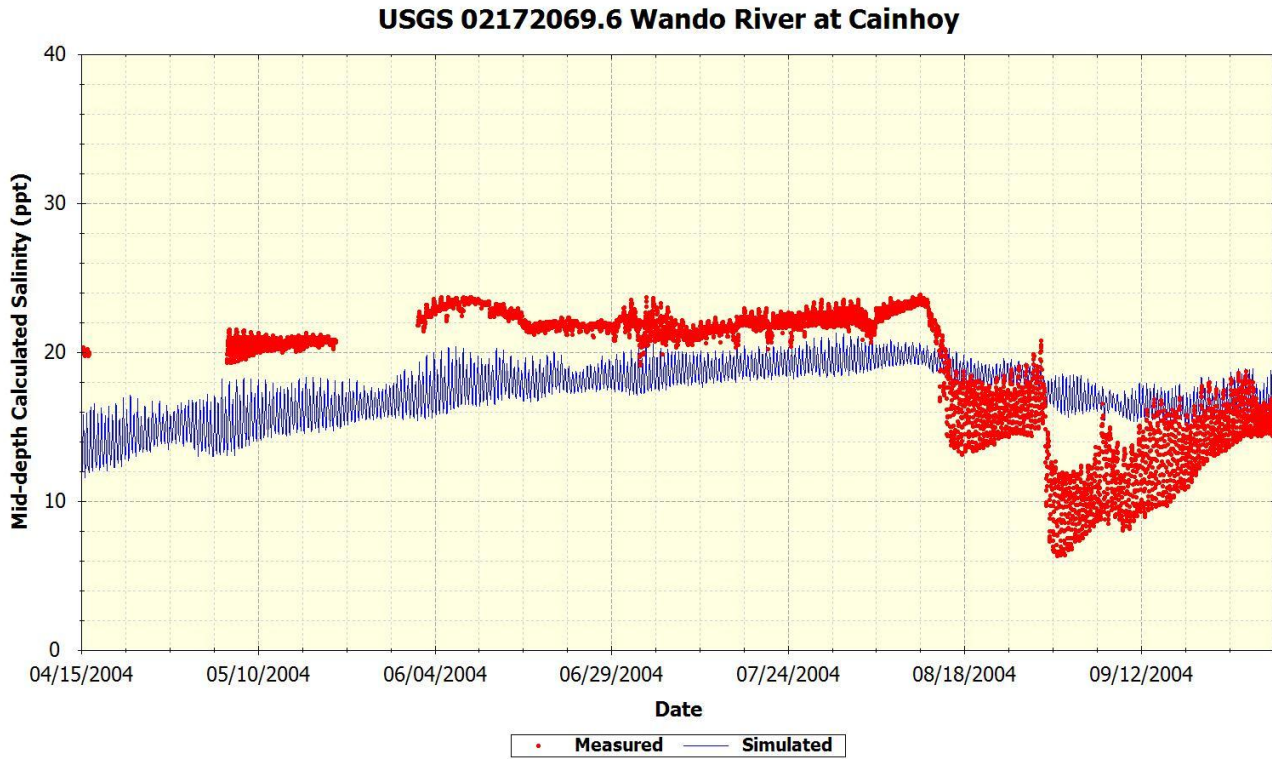


Figure B-17 Measured versus Simulated mid-depth salinity from April 15 to October 1, 2004 at USGS 02172069.6 Wando River at Cainhoy

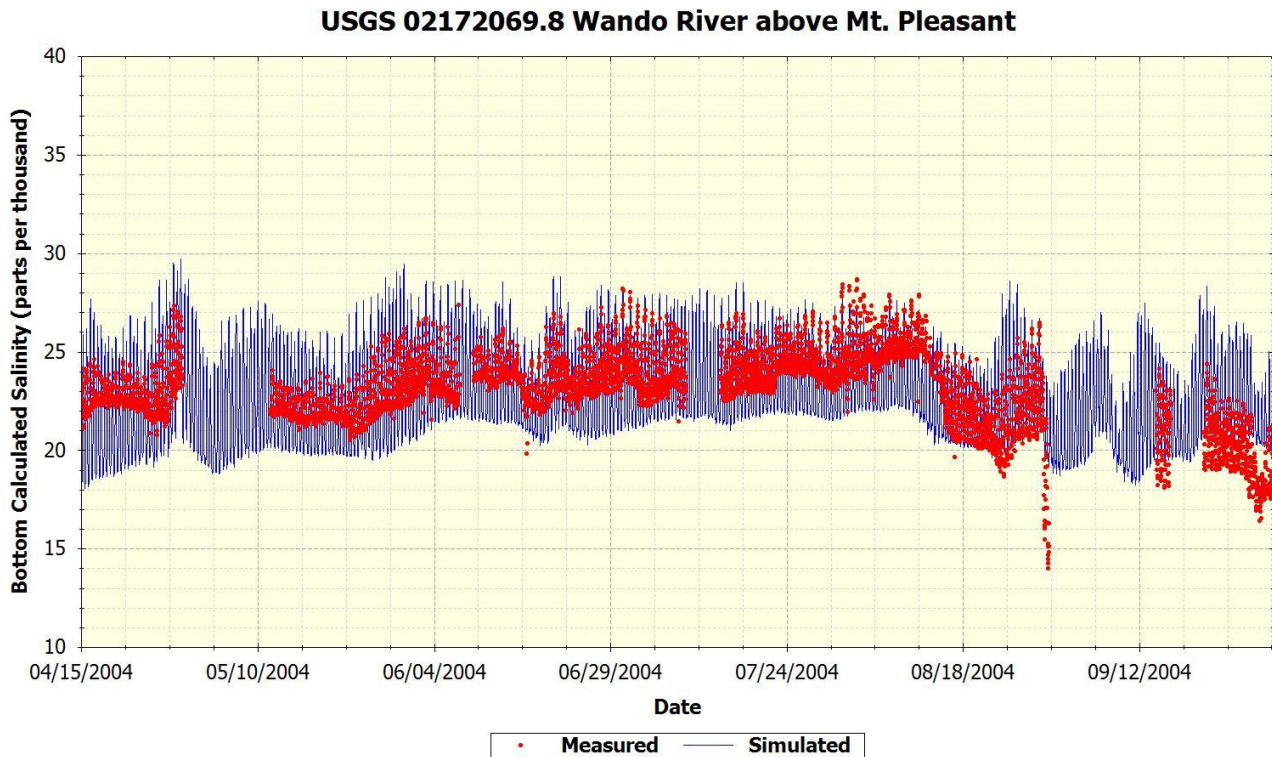


Figure B-18 Measured versus Simulated bottom salinity from April 15 to October 1, 2004 at USGS 02172069.8 Wando River above Mt. Pleasant

**USGS 02172069.8 Wando River above Mt. Pleasant**

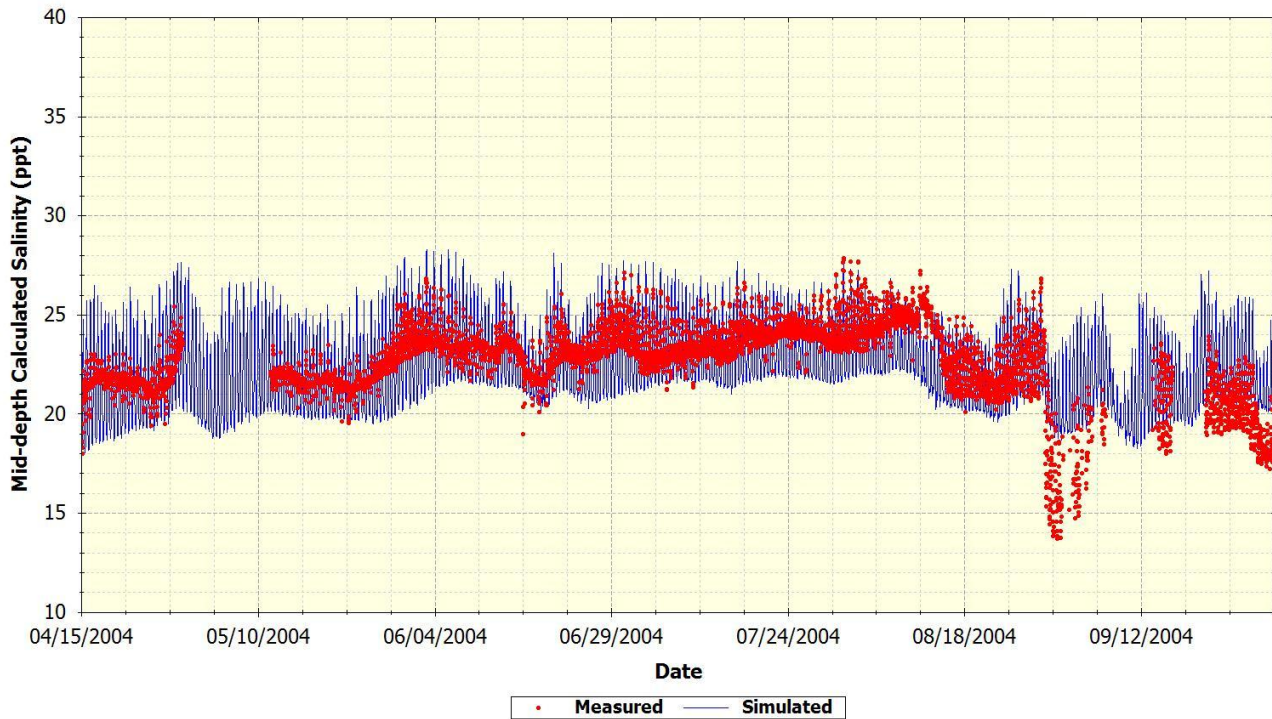


Figure B-19 Measured versus Simulated mid-depth salinity from April 15 to October 1, 2004 at USGS 02172069.8 Wando River above Mt. Pleasant

**USGS 02172069.8 Wando River above Mt. Pleasant**

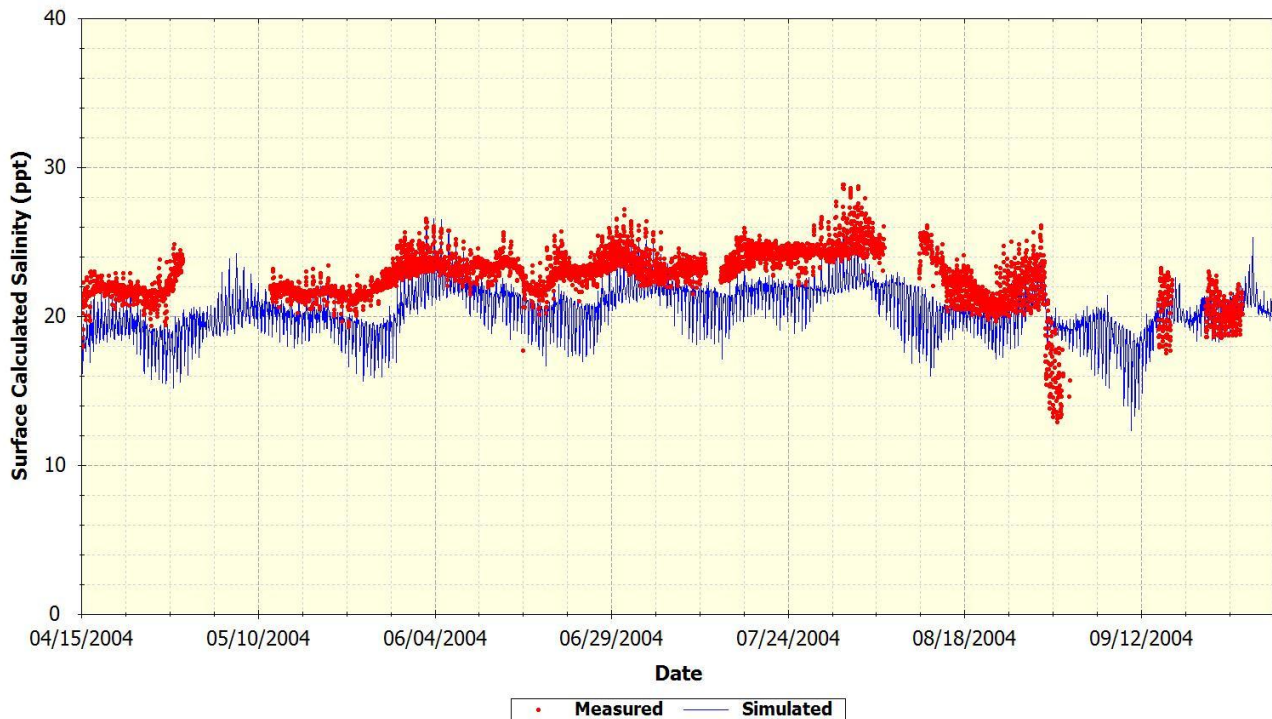


Figure B-20 Measured versus Simulated surface salinity from April 15 to October 1, 2004 at USGS 02172069.8 Wando River above Mt. Pleasant



### USGS 02172084 Ashley River at Bakers Landing

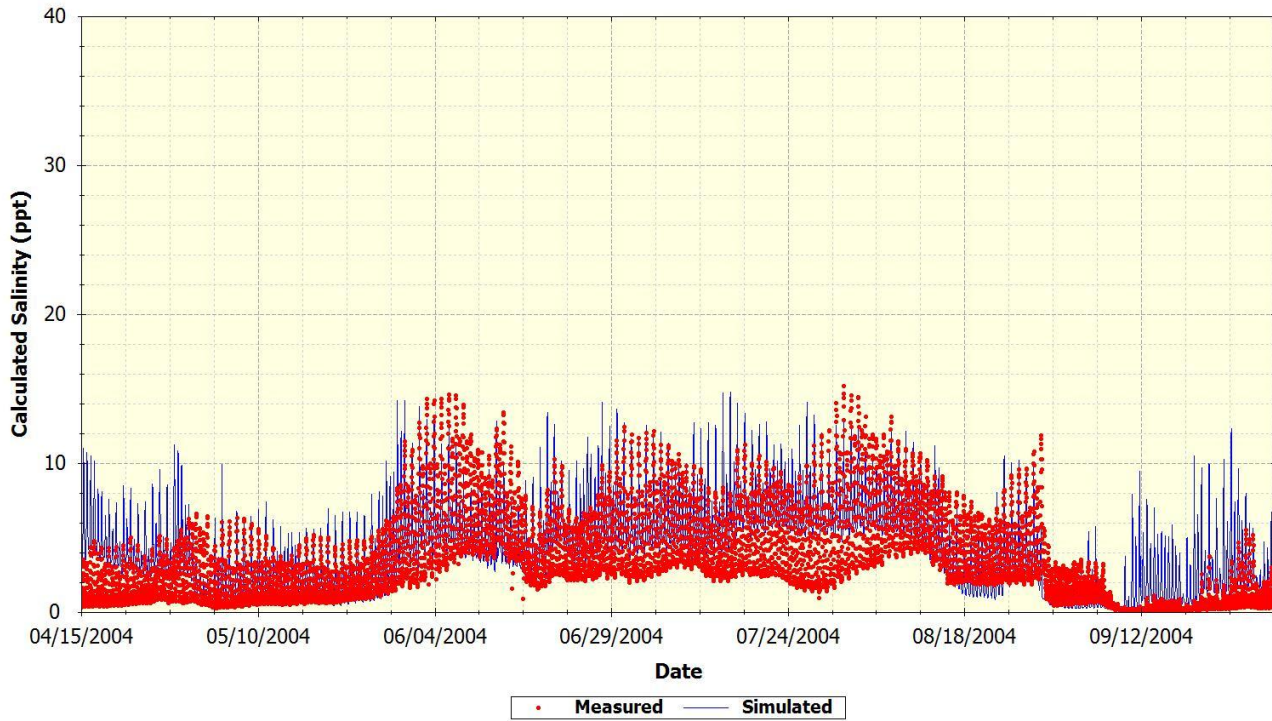


Figure B-21 Measured versus Simulated salinity from April 15 to October 1, 2004 at USGS 02172084 Ashley River at Bakers Landing

### USGS 02172086.9 Ashley River near North Charleston

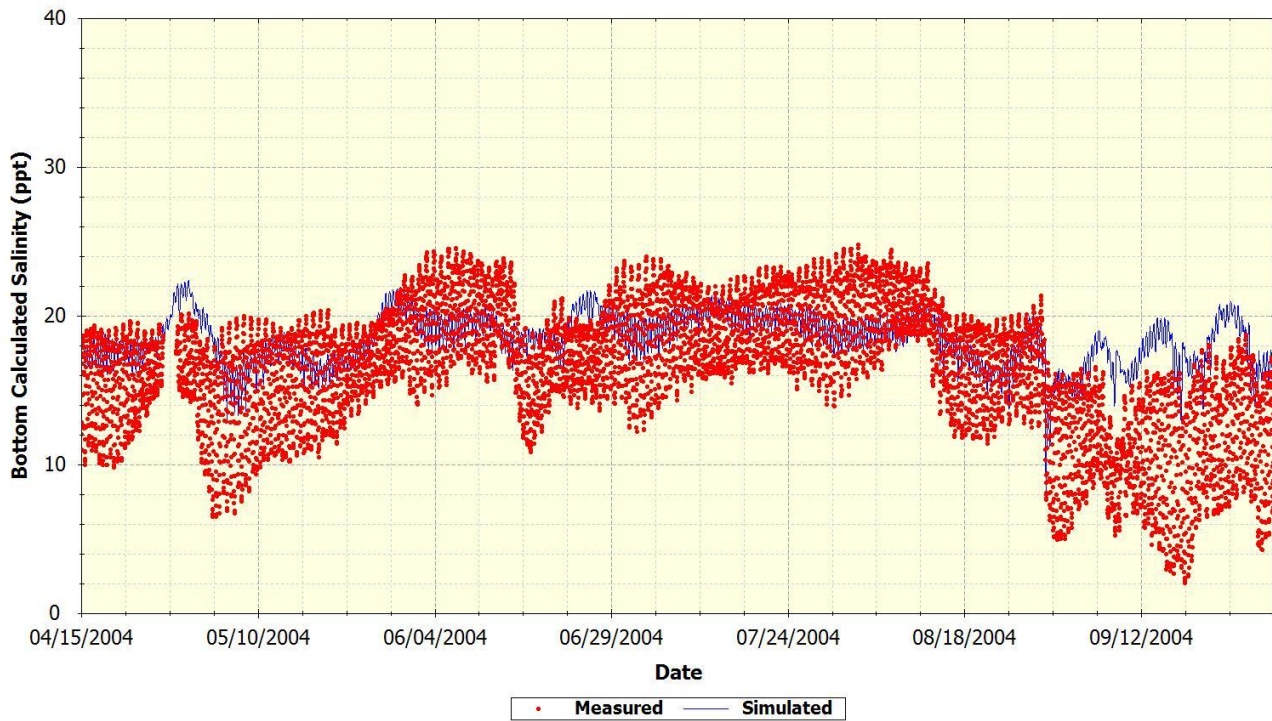


Figure B-22 Measured versus Simulated bottom salinity from April 15 to October 1, 2004 at USGS 02172086.9 Ashley River near North Charleston

**USGS 02172086.9 Ashley River near North Charleston**

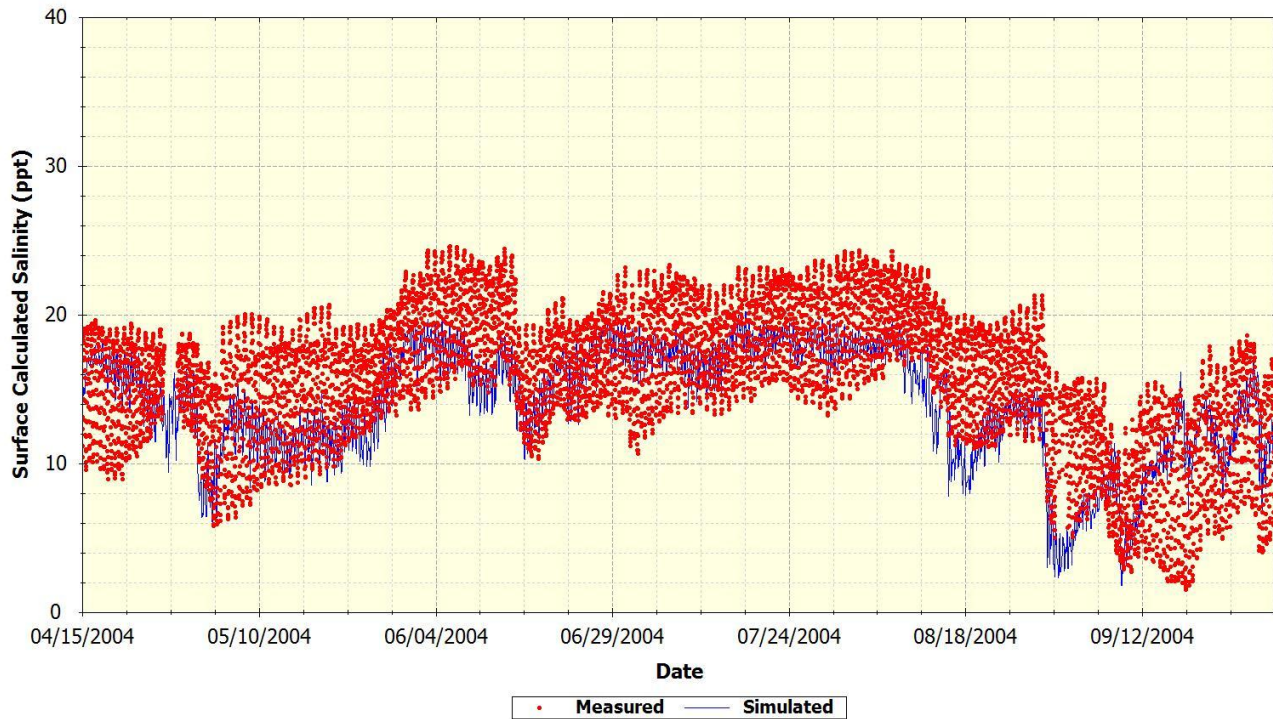


Figure B-23 Measured versus Simulated surface salinity from April 15 to October 1, 2004 at USGS 02172086.9 Ashley River near North Charleston

**USGS 02172100 Charleston Harbor at Fort Sumter**

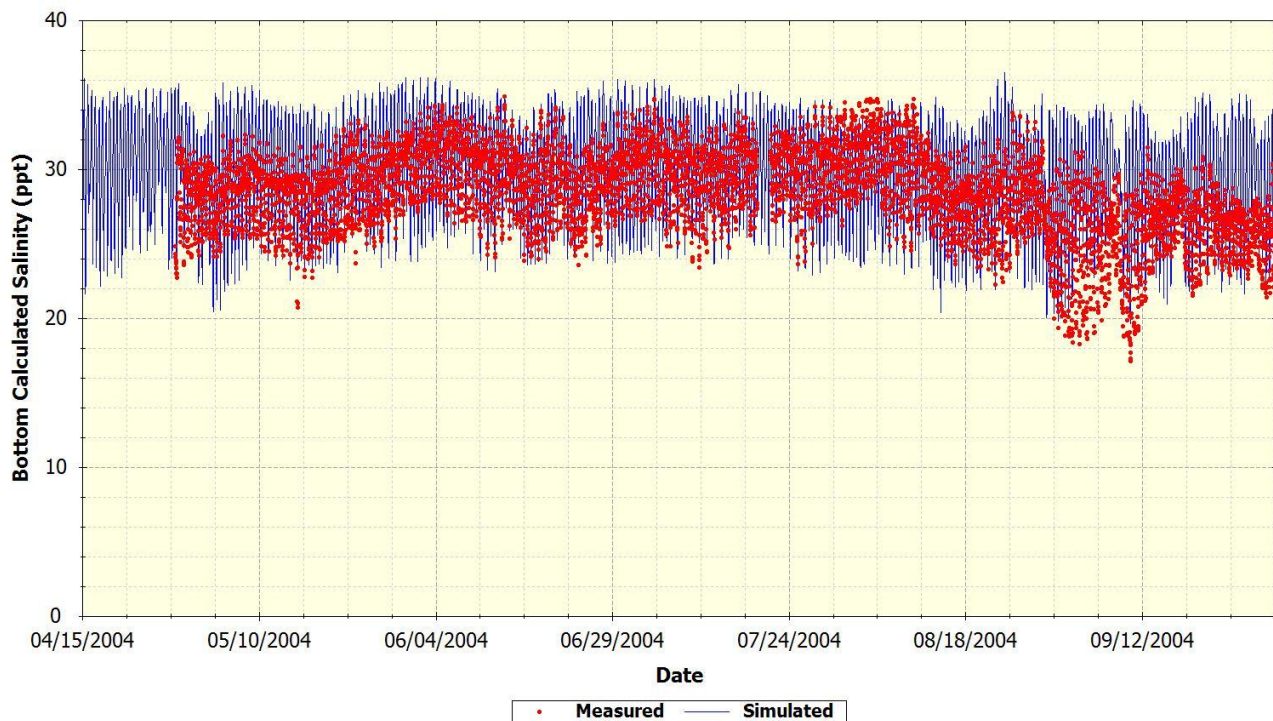


Figure B-24 Measured versus Simulated bottom salinity from April 15 to October 1, 2004 at USGS 02172100 Charleston Harbor at Fort Sumter



**USGS 02172100 Charleston Harbor at Fort Sumter**

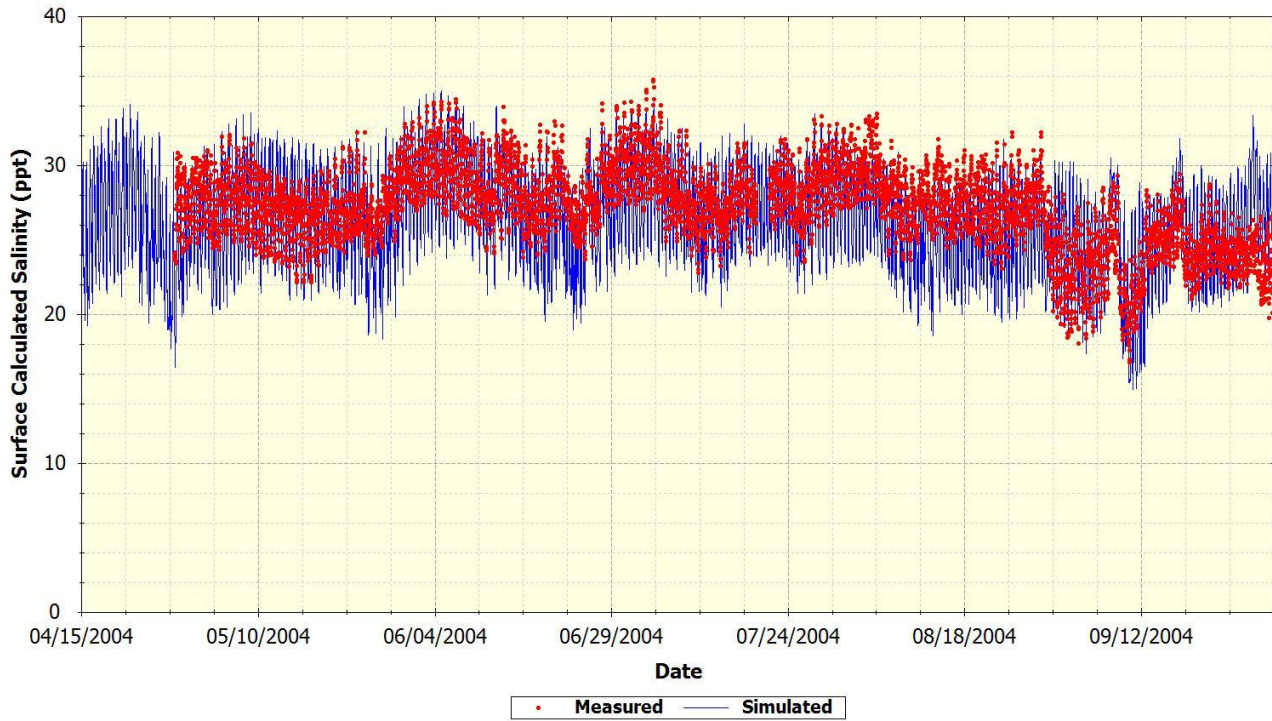


Figure B-25 Measured versus Simulated surface salinity from April 15 to October 1, 2004 at USGS 02172100 Charleston Harbor at Fort Sumter

**USGS 02172020 West Branch Cooper River at Pimlico near Moncks Corner, SC**

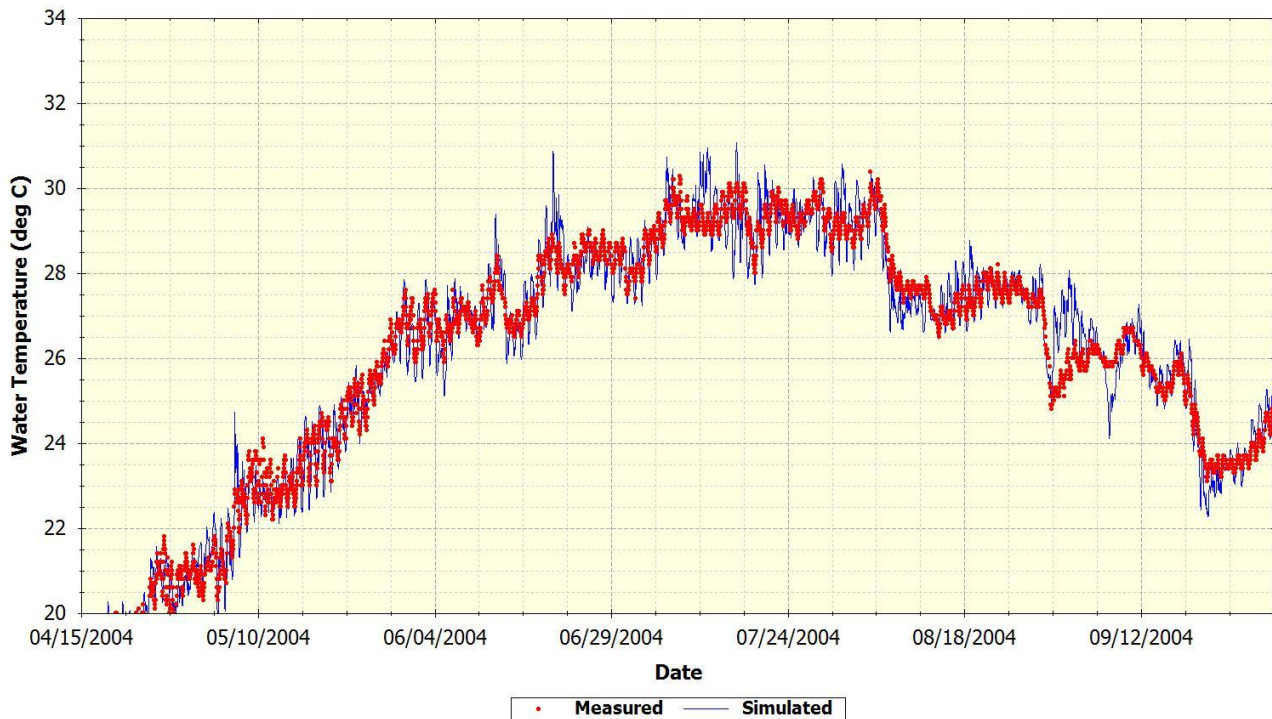


Figure B-26 Measured versus Simulated water temperature at from April 15 to October 1, 2004 at USGS 02172020 Cooper River near Moncks Corner

### USGS 02172050 Cooper River near Goose Creek, SC

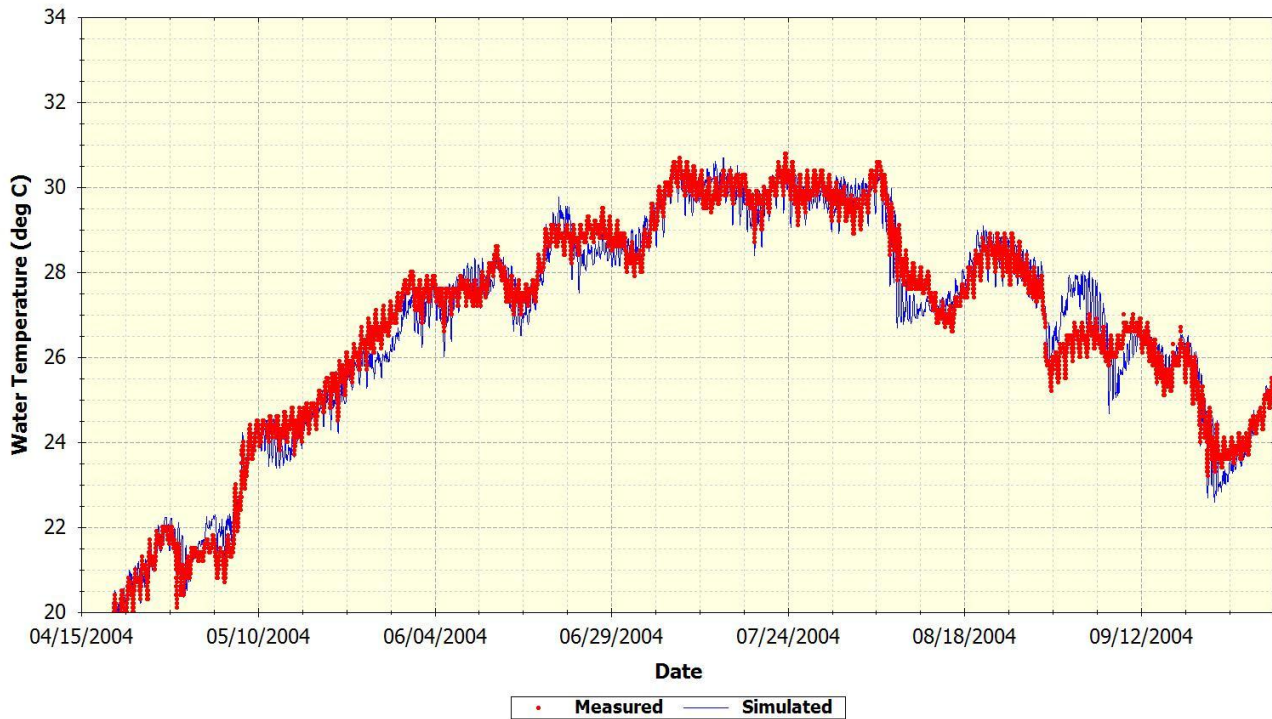


Figure B-27 Measured versus Simulated water temperature at from April 15 to October 1, 2004 at USGS 02172050 Cooper River near Goose Creek

### USGS 02172053 Cooper River at Mobay

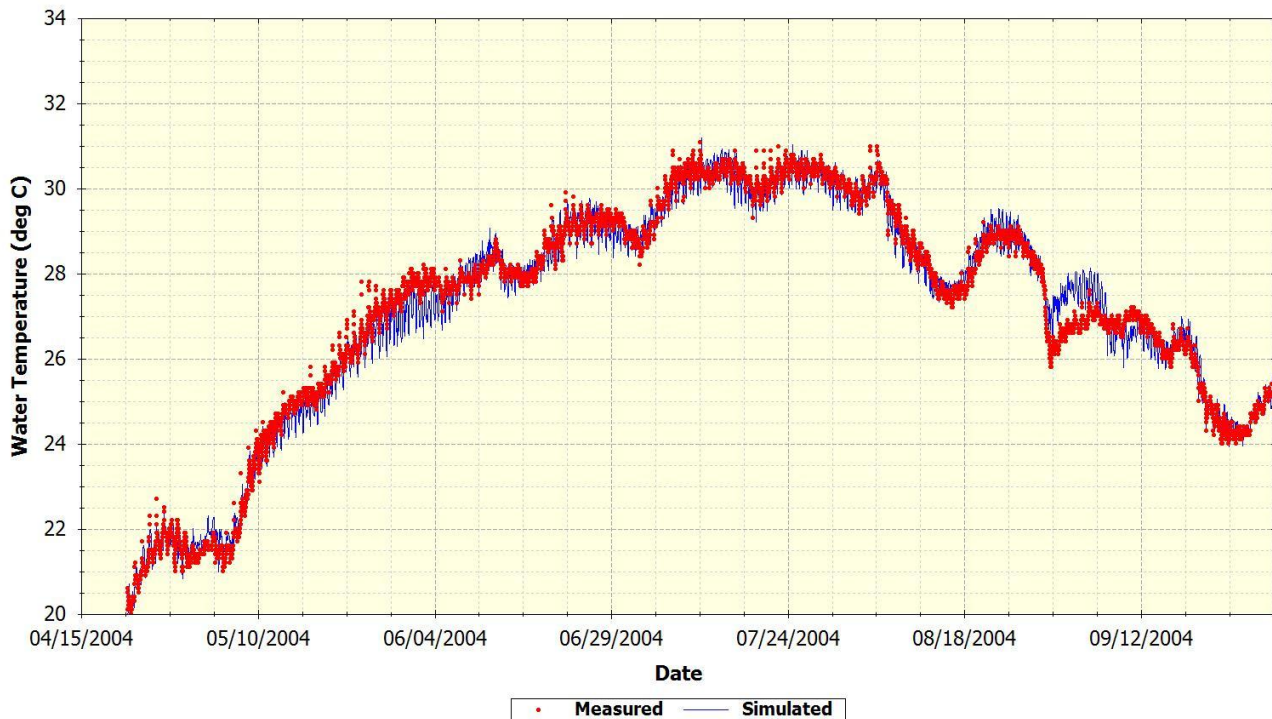


Figure B-28 Measured versus Simulated water temperature at from April 15 to October 1, 2004 at USGS 02172053 Cooper River at Mobay



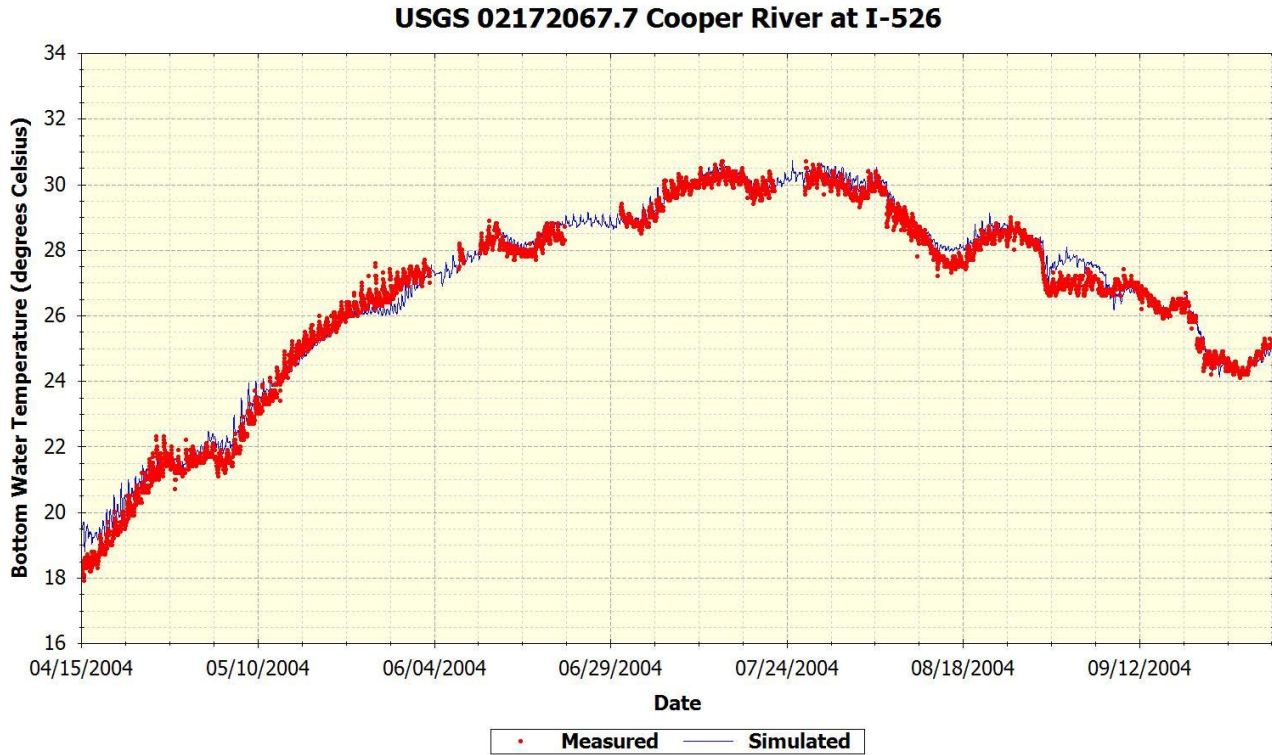


Figure B-29 Measured versus Simulated bottom water temperature from April 15 to October 1, 2004 at USGS 02172067.7 Cooper River at I-526

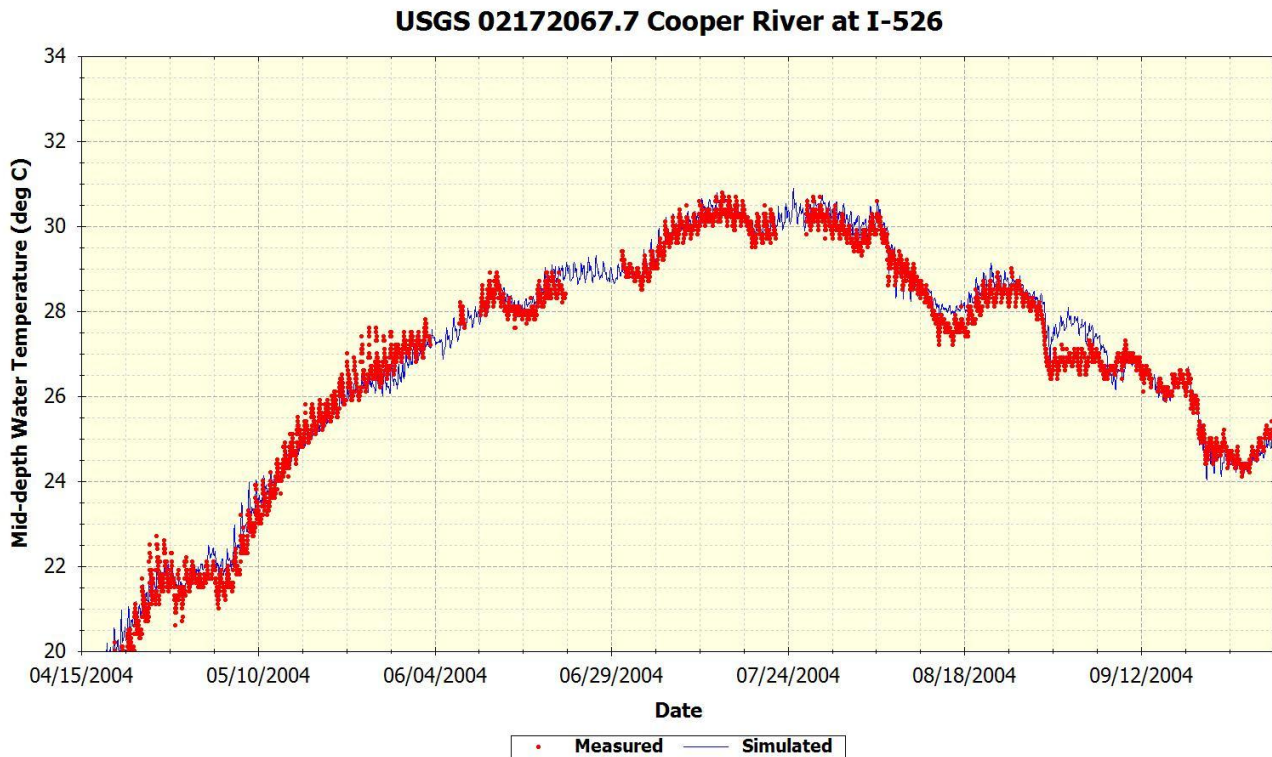


Figure B-30 Measured versus Simulated mid-depth water temperature from April 15 to October 1, 2004 at USGS 02172067.7 Cooper River at I-526

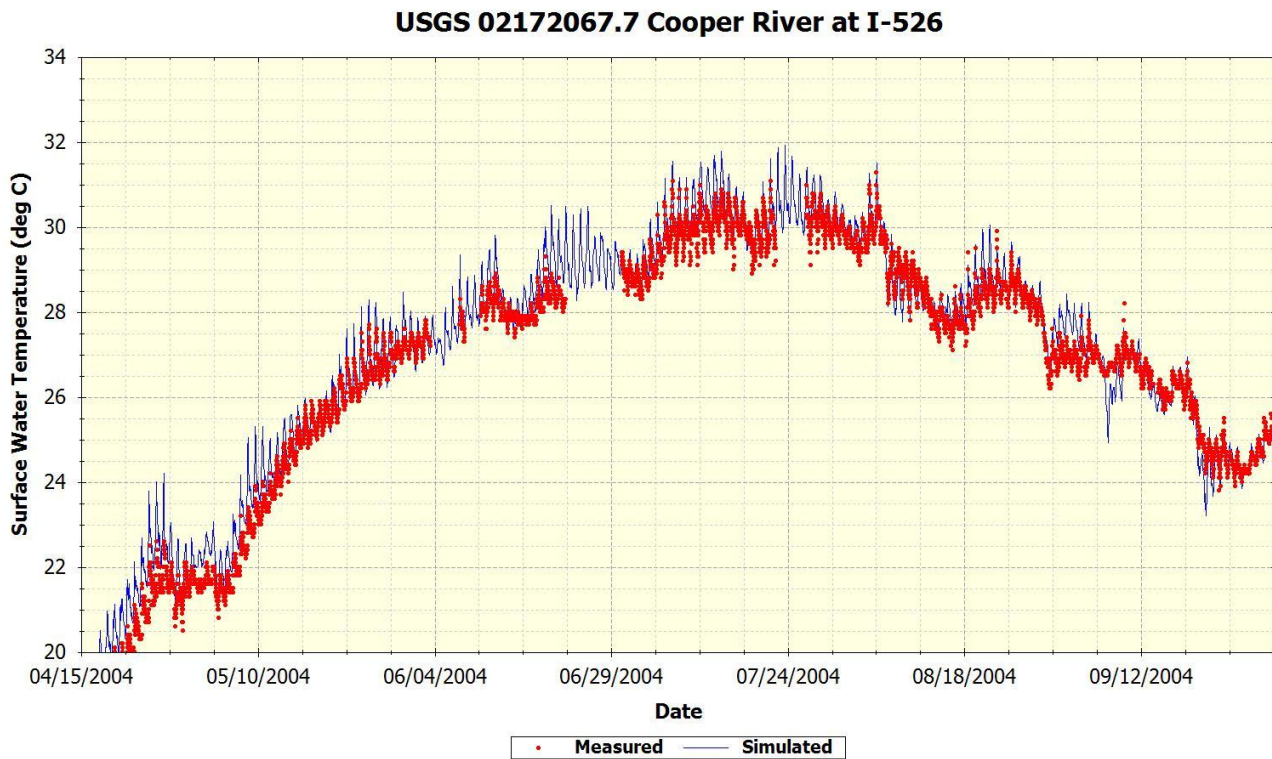


Figure B-31 Measured versus Simulated surface water temperature from April 15 to October 1, 2004 at USGS 02172067.7 Cooper River at I-526

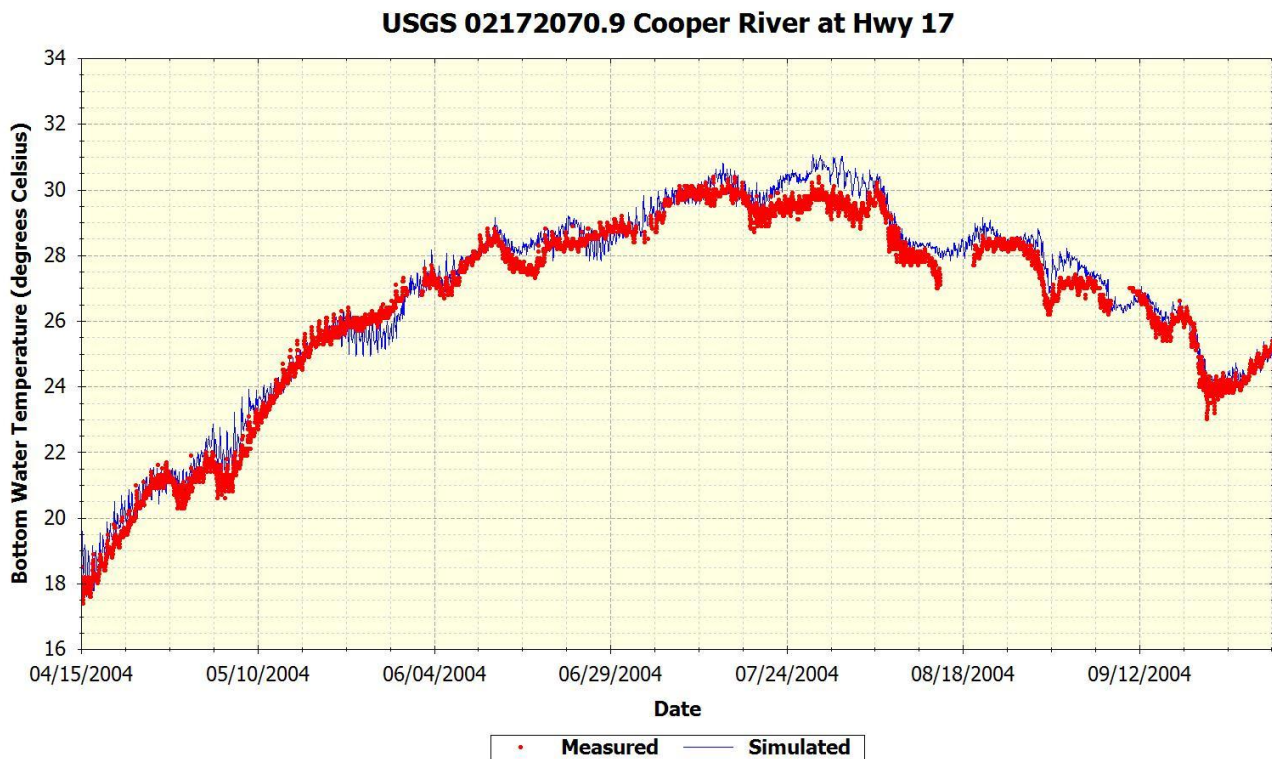


Figure B-32 Measured versus Simulated bottom water temperature from April 15 to October 1, 2004 at USGS 02172070.9 Cooper River at Hwy 17



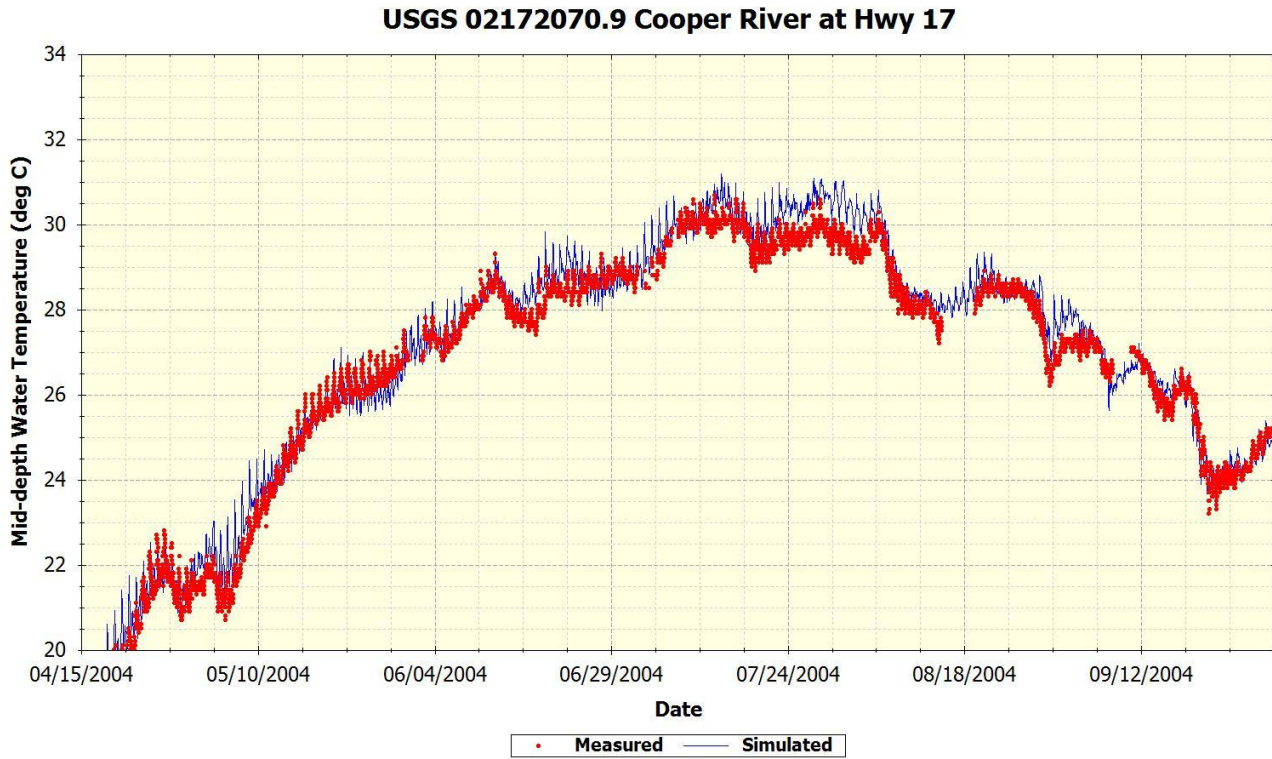


Figure B-33 Measured versus Simulated mid-depth water temperature from April 15 to October 1, 2004 at USGS 02172070.9 Cooper River at Hwy 17

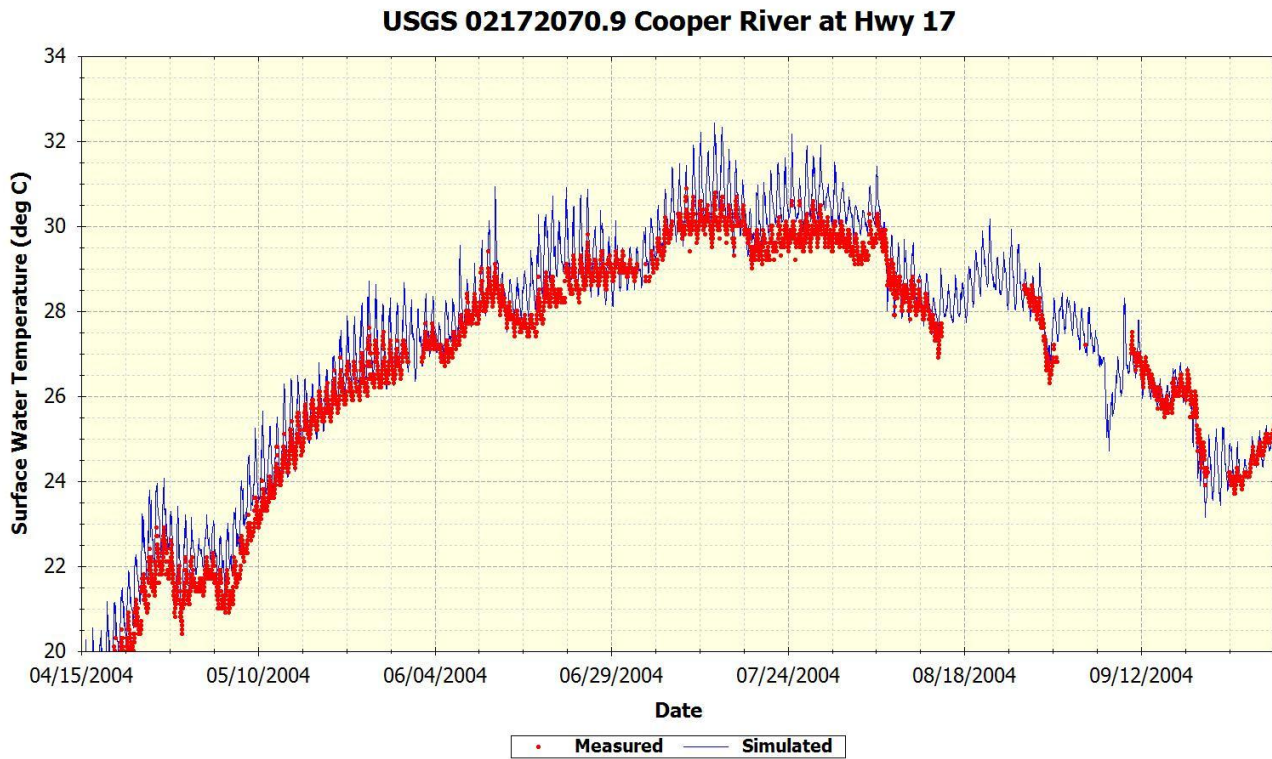


Figure B-34 Measured versus Simulated surface water temperature from April 15 to October 1, 2004 at USGS 02172070.9 Cooper River at Hwy 17

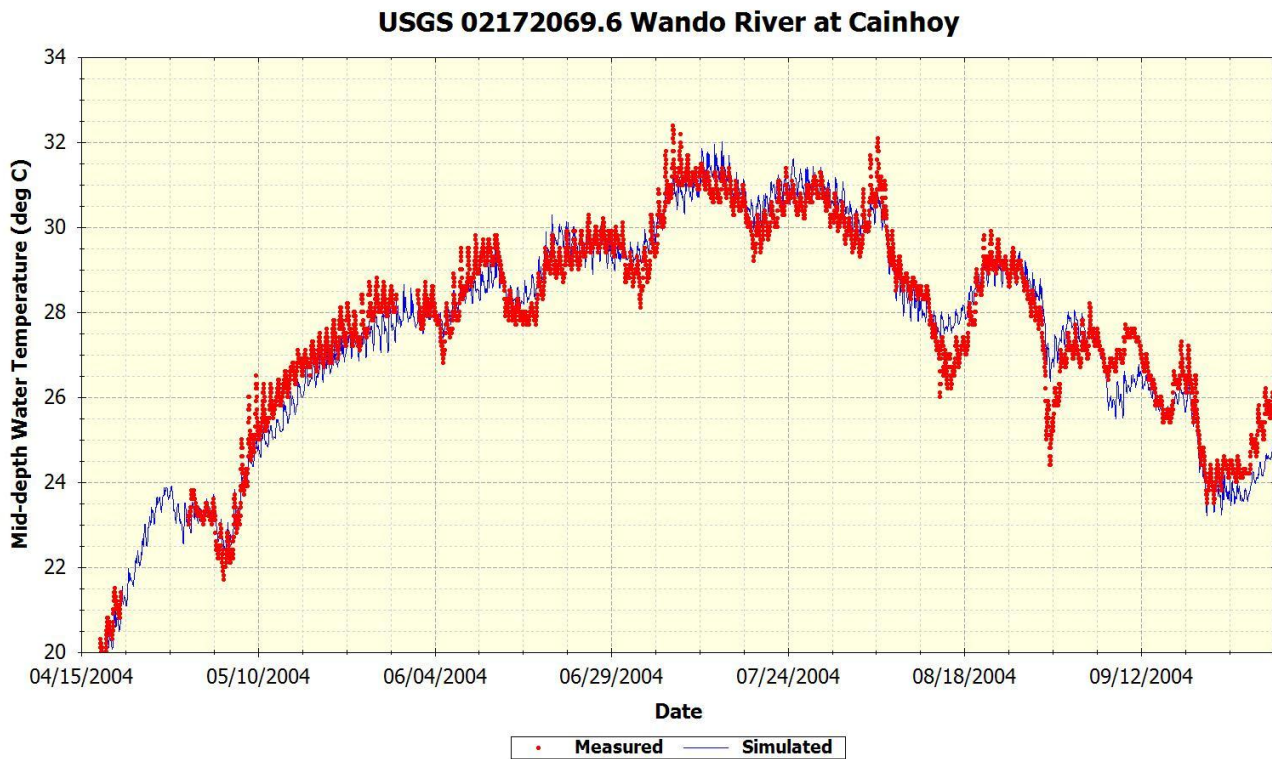


Figure B-35 Measured versus Simulated mid-depth water temperature from April 15 to October 1, 2004 at USGS 02172069.6 Wando River at Cainhoy

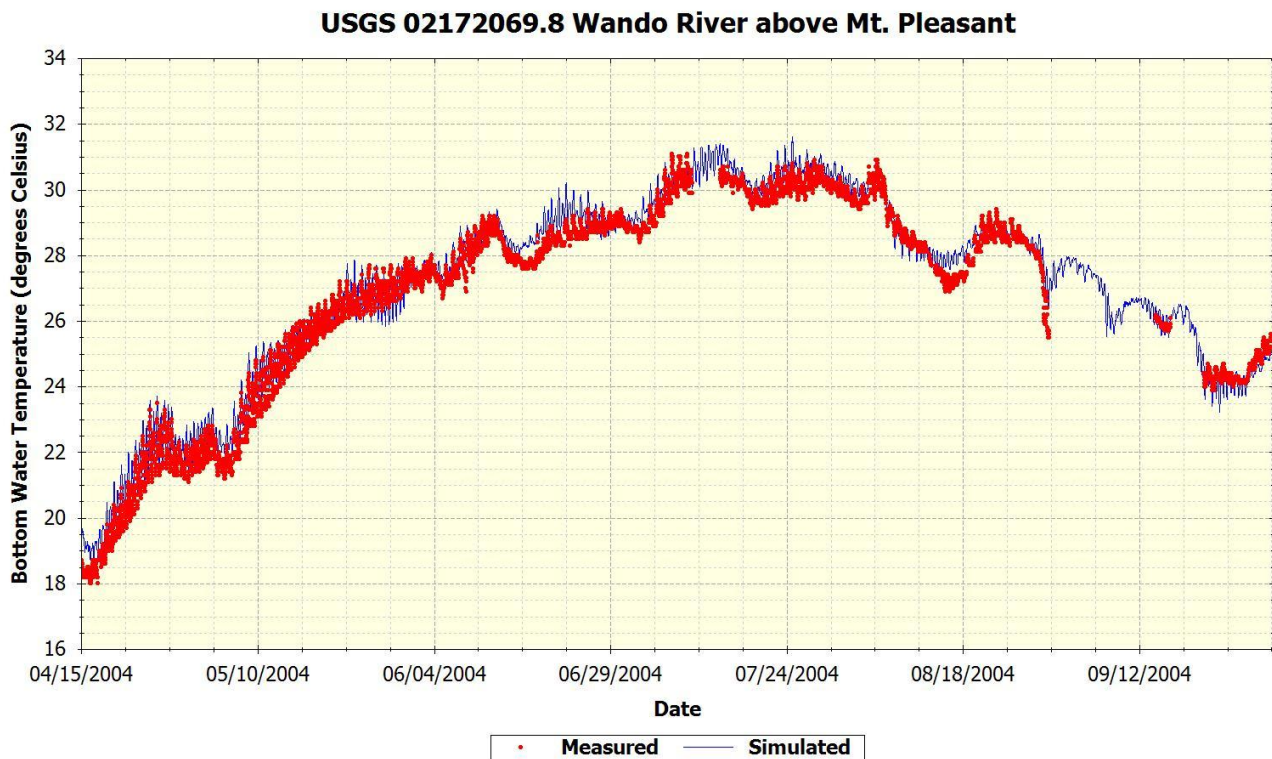
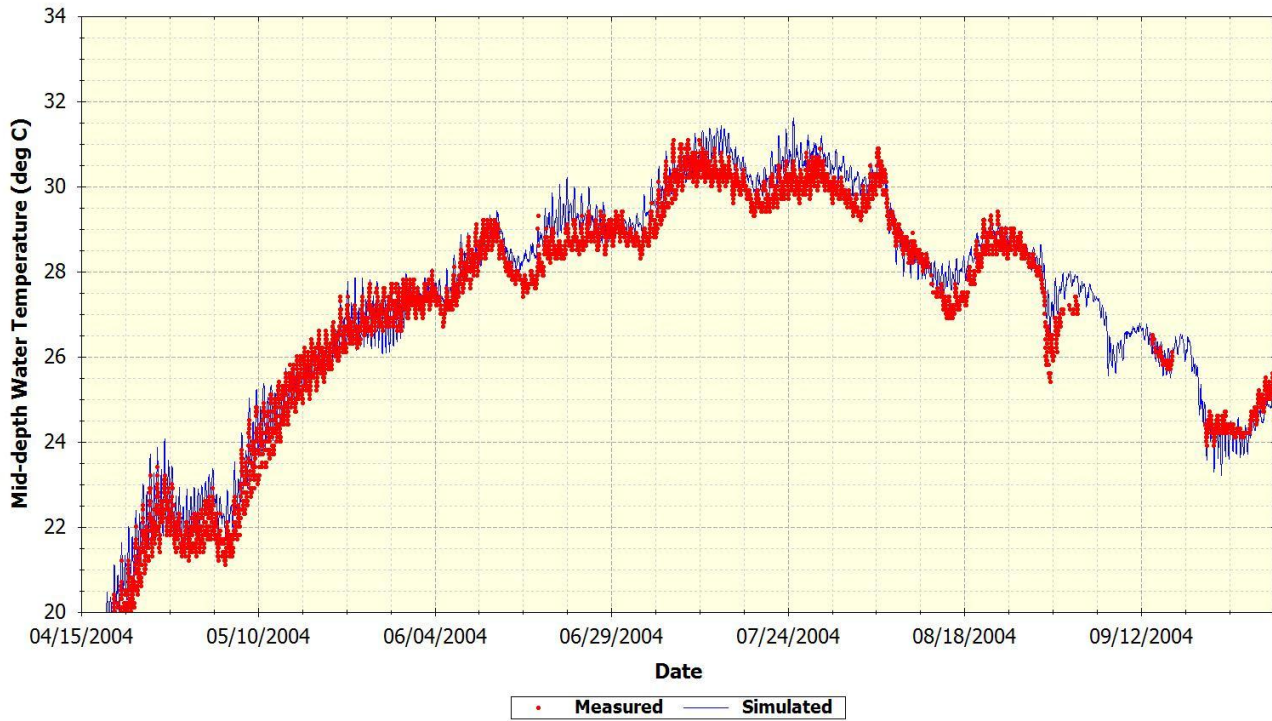


Figure B-36 Measured versus Simulated bottom water temperature from April 15 to October 1, 2004 at USGS 02172069.8 Wando River above Mt. Pleasant

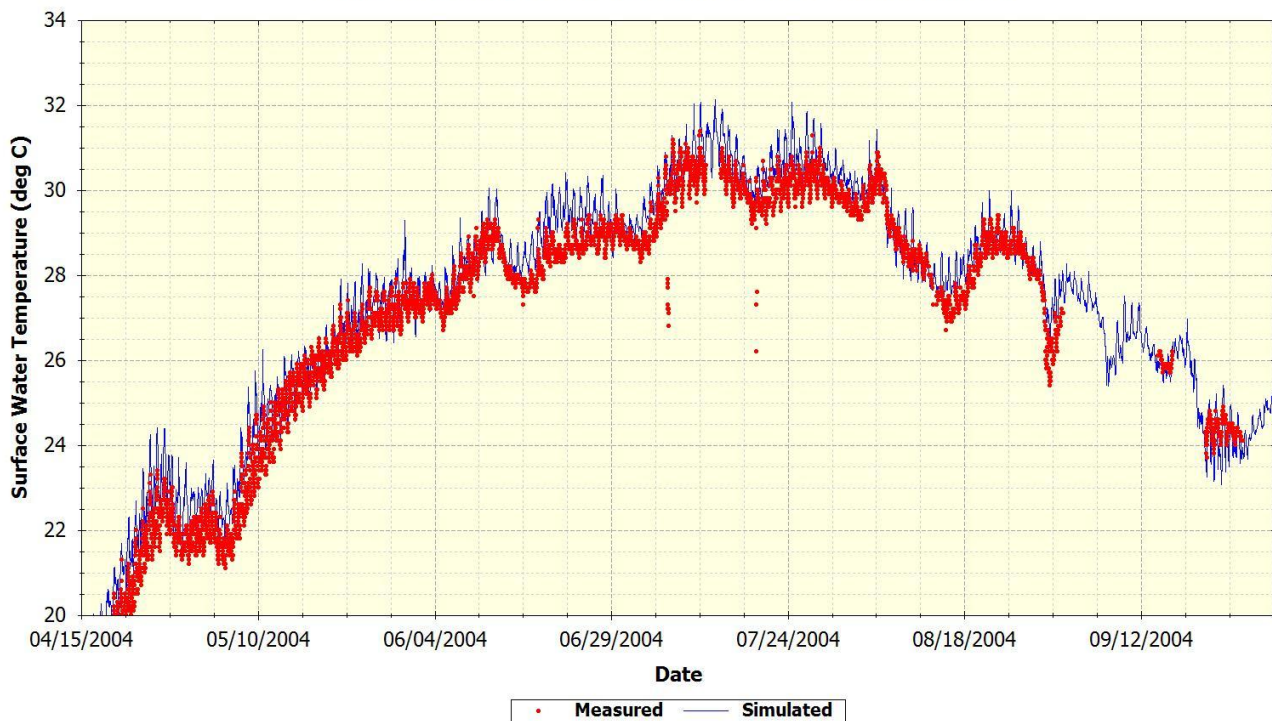


**USGS 02172069.8 Wando River above Mt. Pleasant**



**Figure B-37 Measured versus Simulated mid-depth water temperature from April 15 to October 1, 2004 at USGS 02172069.8 Wando River above Mt. Pleasant**

**USGS 02172069.8 Wando River above Mt. Pleasant**



**Figure B-38 Measured versus Simulated surface water temperature from April 15 to October 1, 2004 at USGS 02172069.8 Wando River above Mt. Pleasant**

### USGS 02172084 Ashley River at Bakers Landing

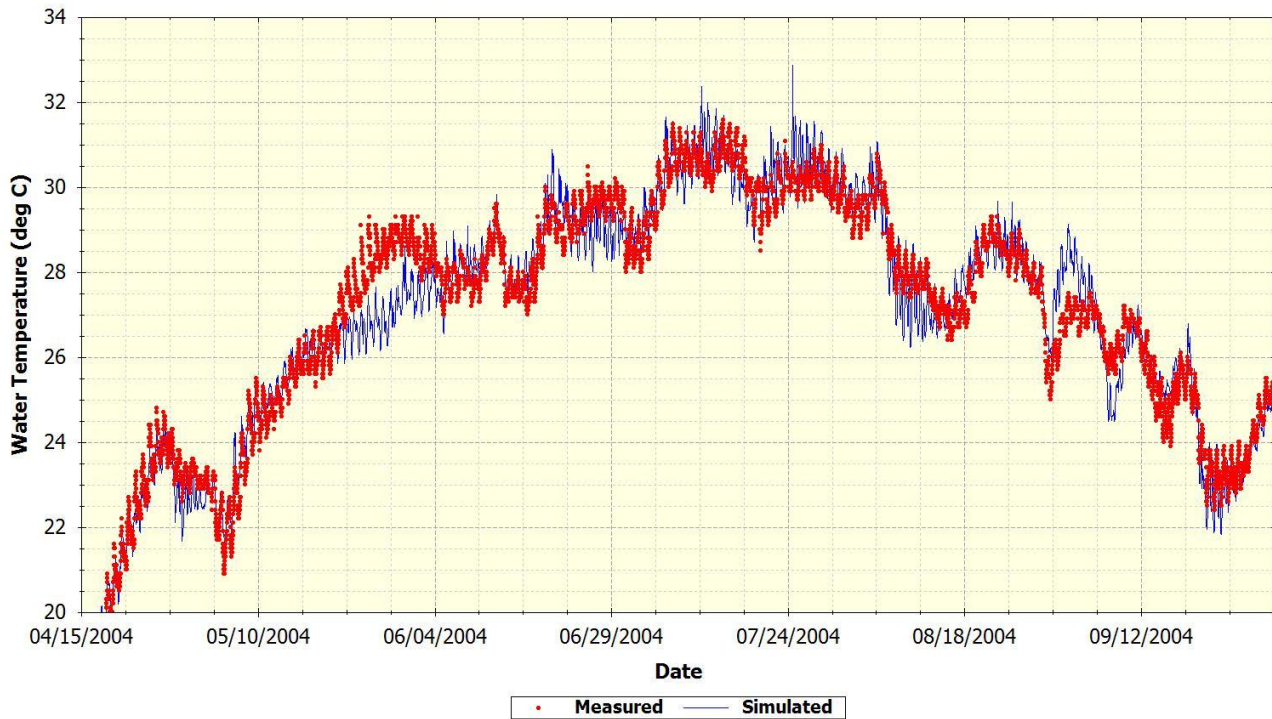


Figure B-39 Measured versus Simulated water temperature from April 15 to October 1, 2004 at USGS 02172084 Ashley River at Bakers Landing

### USGS 02172086.9 Ashley River near North Charleston

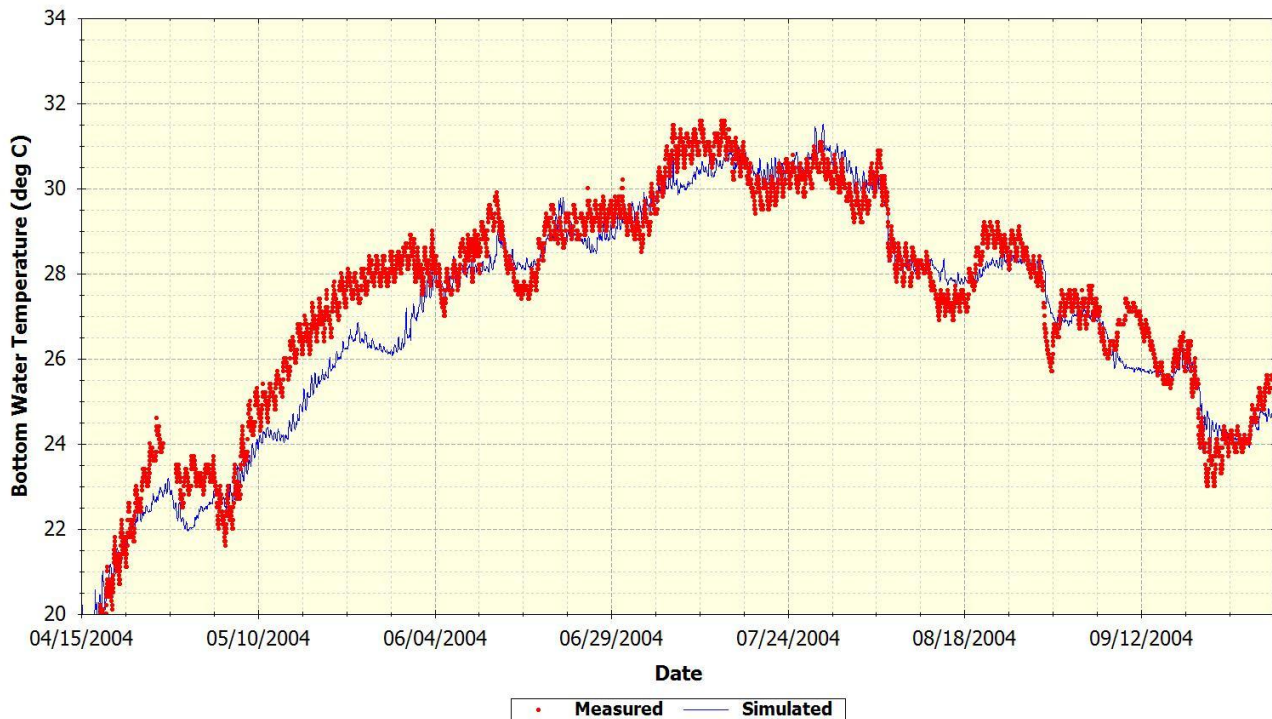
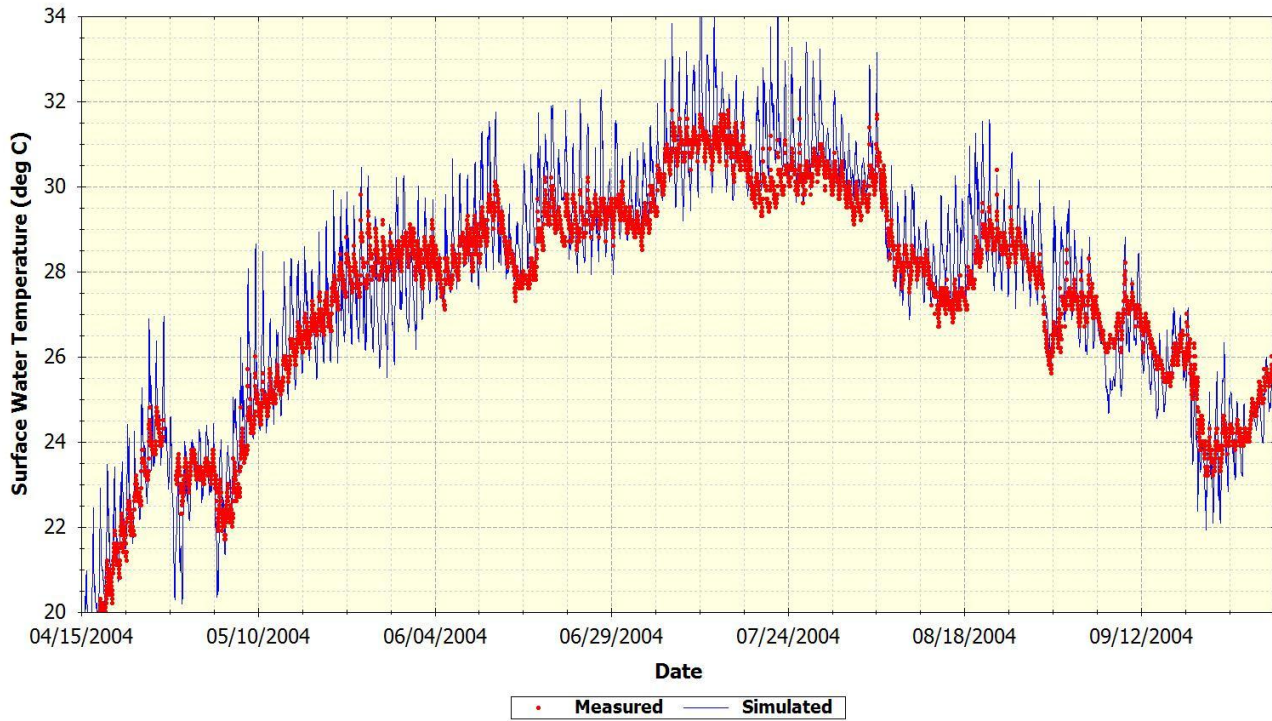


Figure B-40 Measured versus Simulated bottom water temperature from April 15 to October 1, 2004 at USGS 02172086.9 Ashley River near North Charleston

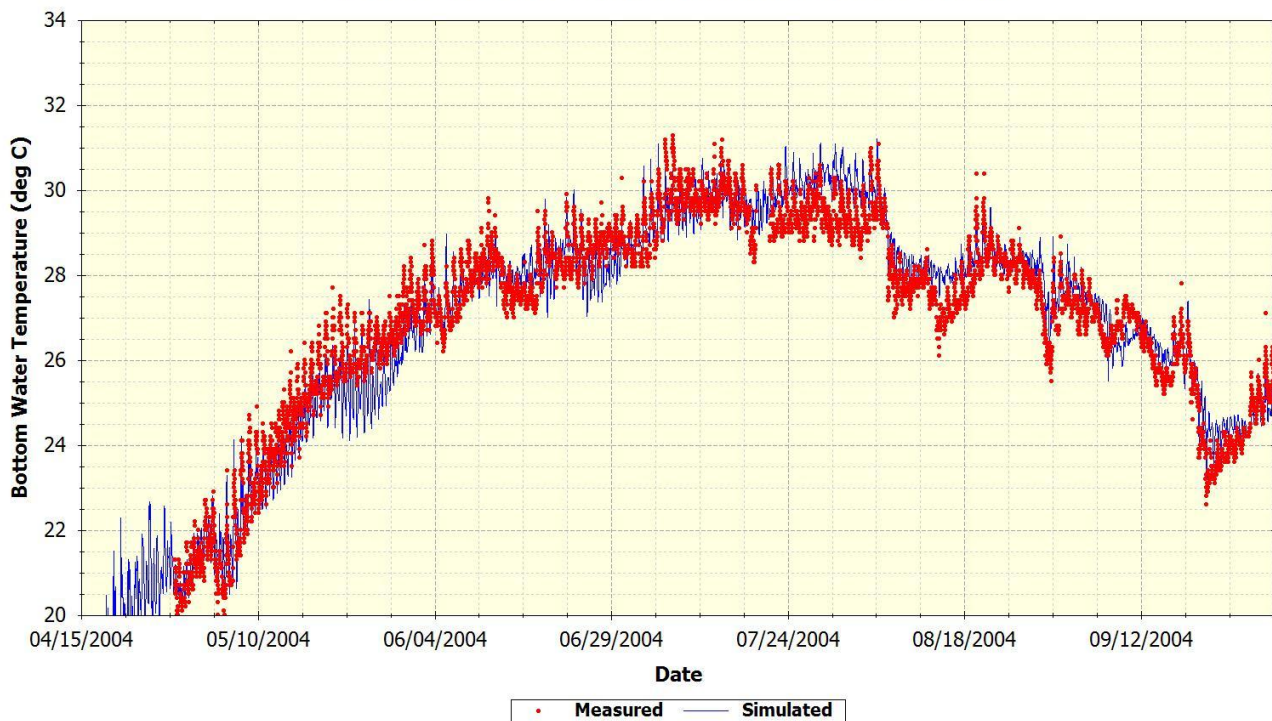


**USGS 02172086.9 Ashley River near North Charleston**

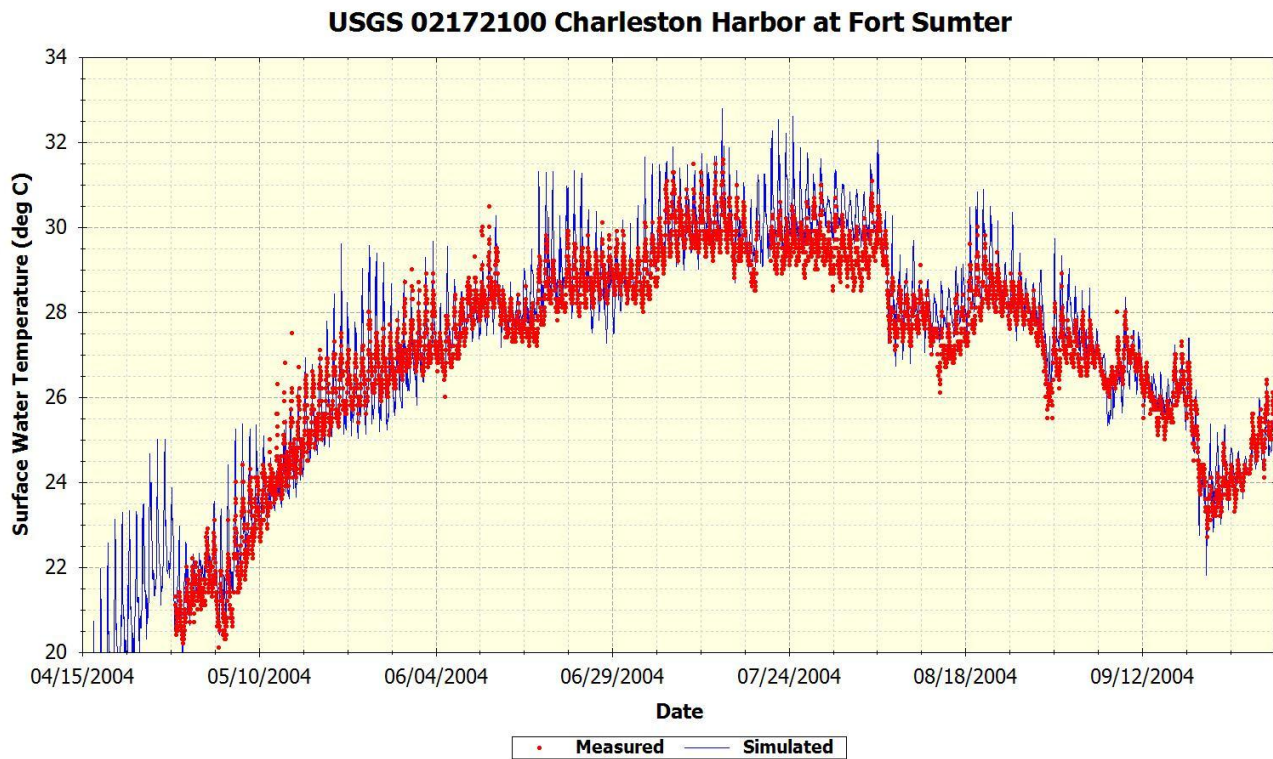


**Figure B-41 Measured versus Simulated surface water temperature from April 15 to October 1, 2004 at USGS 02172086.9 Ashley River near North Charleston**

**USGS 02172100 Charleston Harbor at Fort Sumter**



**Figure B-42 Measured versus Simulated bottom water temperature from April 15 to October 1, 2004 at USGS 02172100 Charleston Harbor at Fort Sumter**



**Figure B-43 Measured versus Simulated surface water temperature from April 15 to October 1, 2004 at USGS 02172100 Charleston Harbor at Fort Sumter**