# Appendix for Model 03070106

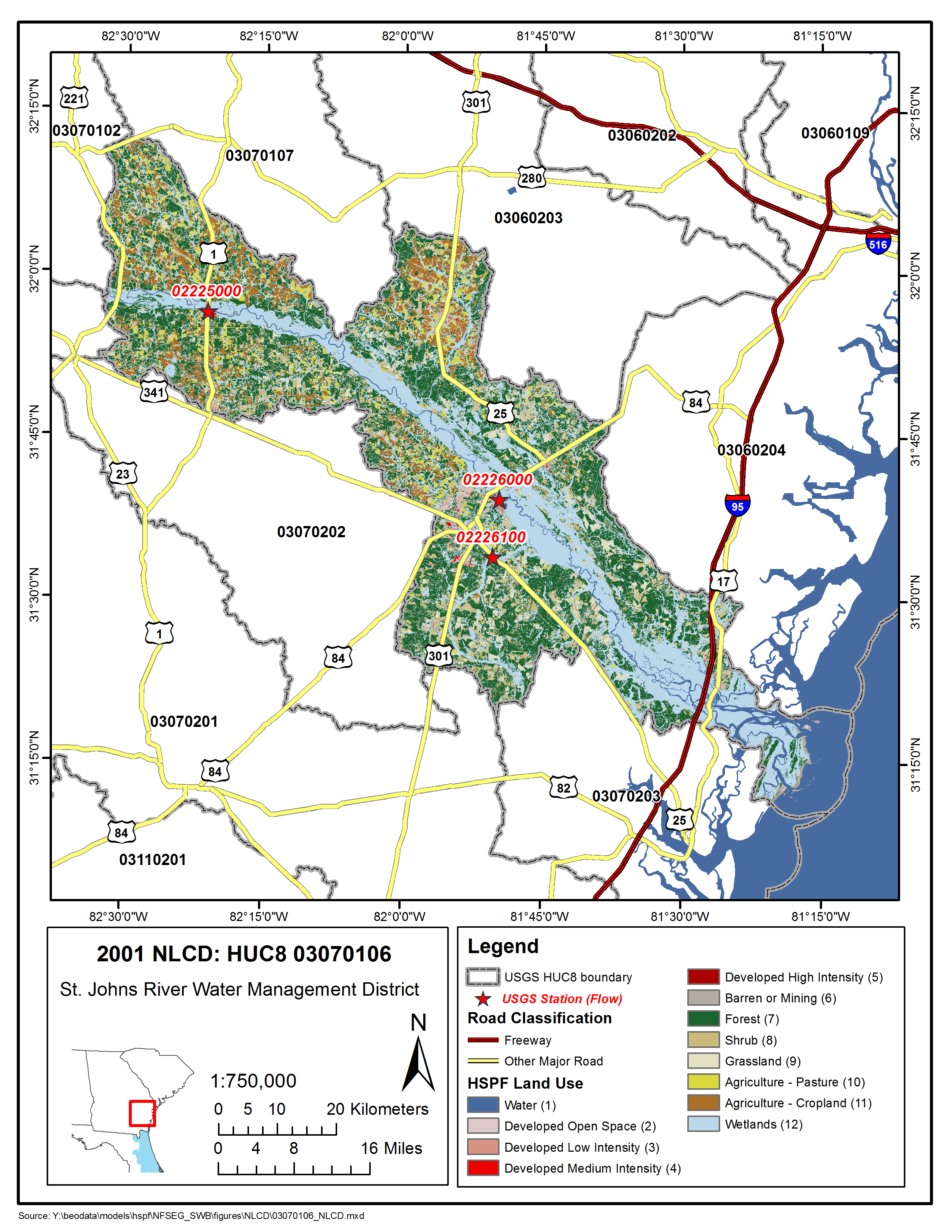


Figure 03070106-1: Land Cover from the National Land Cover Database.

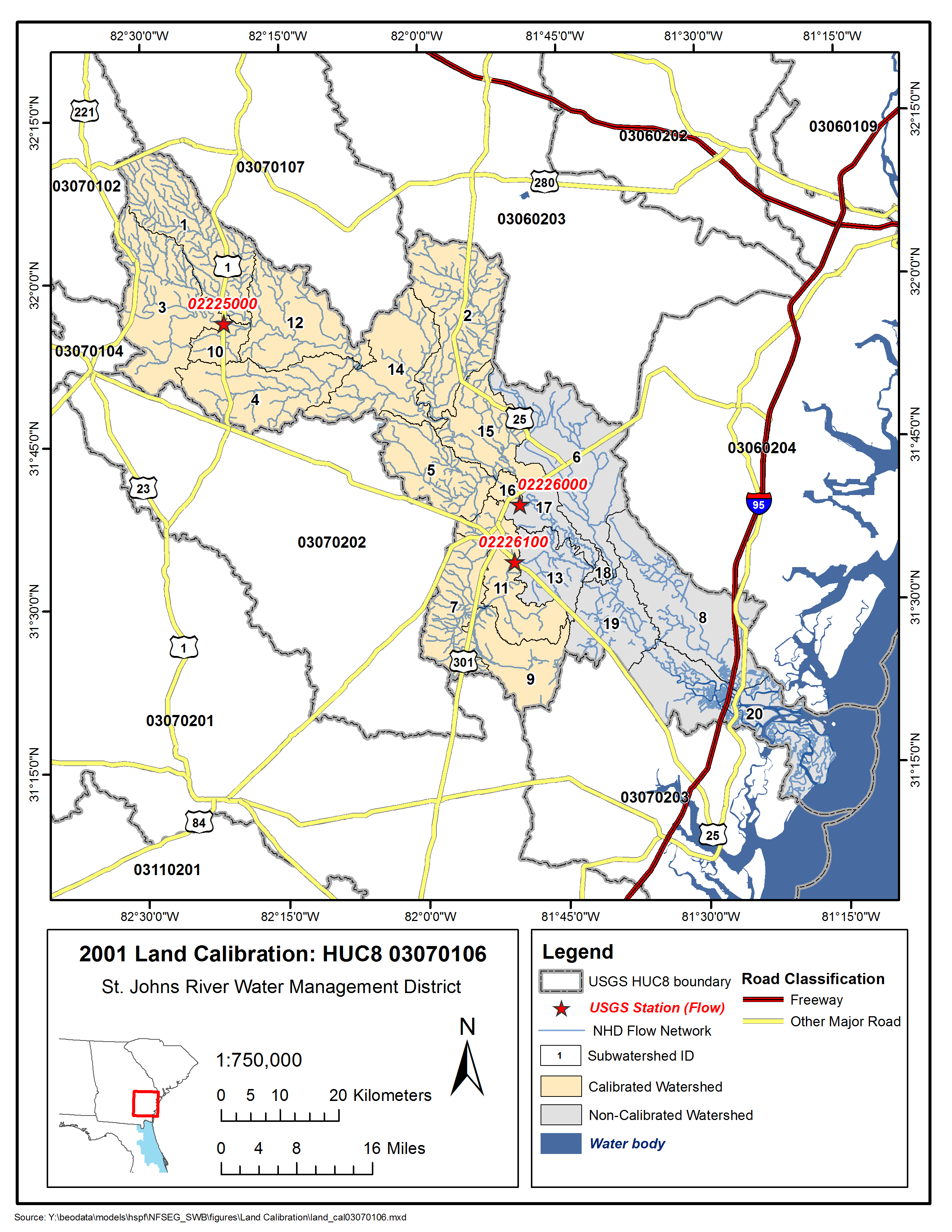


Figure 03070106-2: Calibrated sub-watersheds.

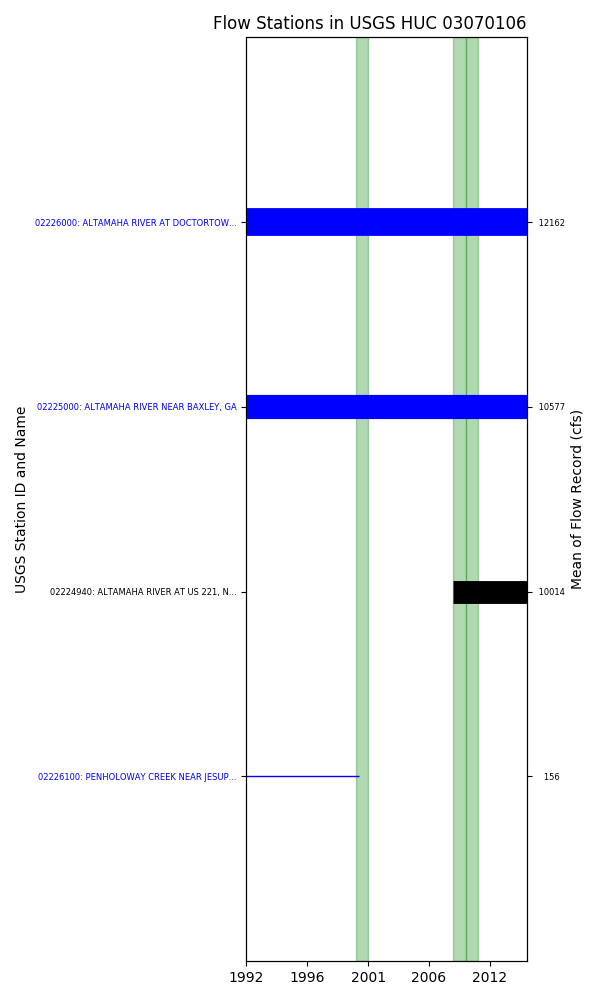


Figure 03070106-3: Station period of record. Blue color identifies gauges used for calibration.

## HSPF Reach 03, USGS Gauge 02225000

Table 03070106-1: Comparison Statistics Between HSPF Reach 03 and USGS Gauge 02225000.

|  |  |
| --- | --- |
| Statistic | Value |
| Bias | -523.01 |
| Standard error | 3599.18 |
| Relative bias | -0.05 |
| Relative standard error | 0.33 |
| Nash-Sutcliffe coefficient | 0.89 |
| Kling-Gupta coefficient | 0.83 |
| Coefficient of efficiency | 0.75 |
| Index of agreement | 0.87 |

Table 03070106-2: Hydrologic Indices Between USGS Gauge 02225000 and HSPF Reach 03.

|  |  |  |  |
| --- | --- | --- | --- |
| Hydrologic Index and description (Olden and Poff, 2003) | Observed 02225000 | Simulated Reach 03 | Percent Difference |

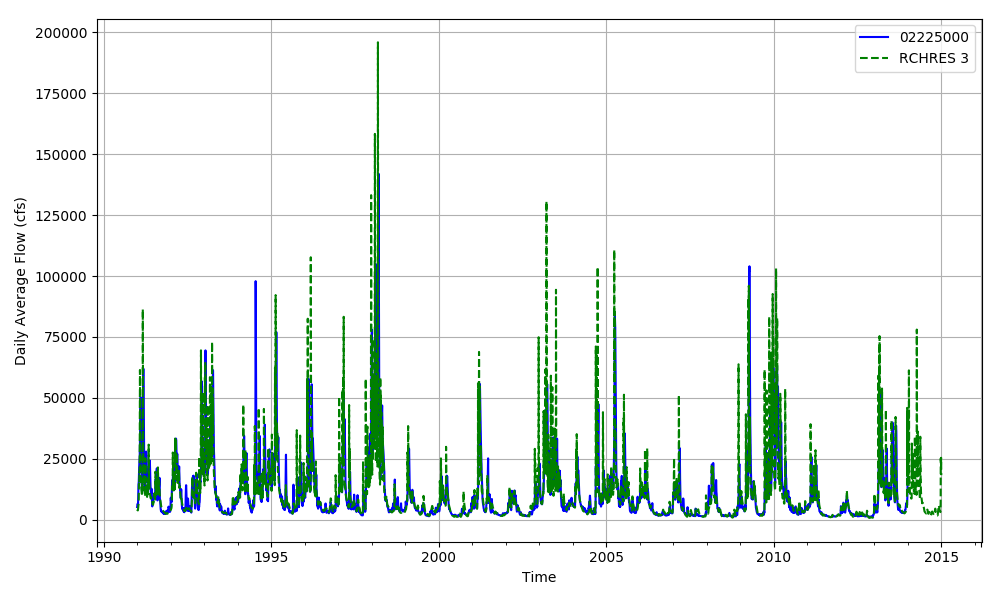


Figure 03070106-4: Daily flow for HSFP reach 03 and USGS station 02225000.

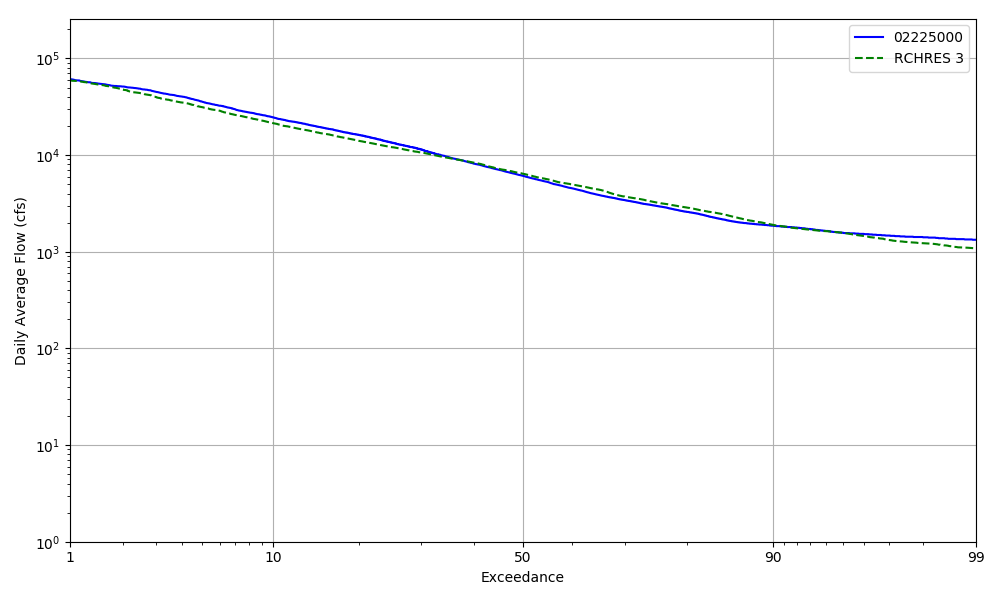


Figure 03070106-5: Daily exceedance for HSFP reach 03 and USGS station 02225000.

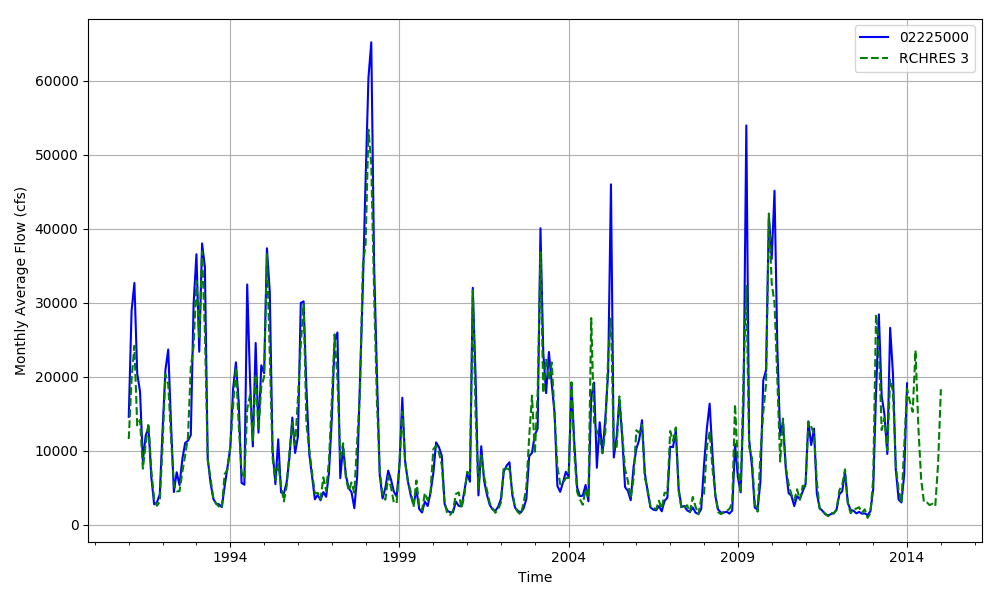


Figure 03070106-6: Monthly flow for HSFP reach 03 and USGS station 02225000.

## HSPF Reach 11, USGS Gauge 02226100

Table 03070106-3: Comparison Statistics Between HSPF Reach 11 and USGS Gauge 02226100.

|  |  |
| --- | --- |
| Statistic | Value |
| Bias | -0.17 |
| Standard error | 104.06 |
| Relative bias | -0.00 |
| Relative standard error | 0.41 |
| Nash-Sutcliffe coefficient | 0.83 |
| Kling-Gupta coefficient | 0.84 |
| Coefficient of efficiency | 0.66 |
| Index of agreement | 0.82 |

Table 03070106-4: Hydrologic Indices Between USGS Gauge 02226100 and HSPF Reach 11.

|  |  |  |  |
| --- | --- | --- | --- |
| Hydrologic Index and description (Olden and Poff, 2003) | Observed 02226100 | Simulated Reach 11 | Percent Difference |

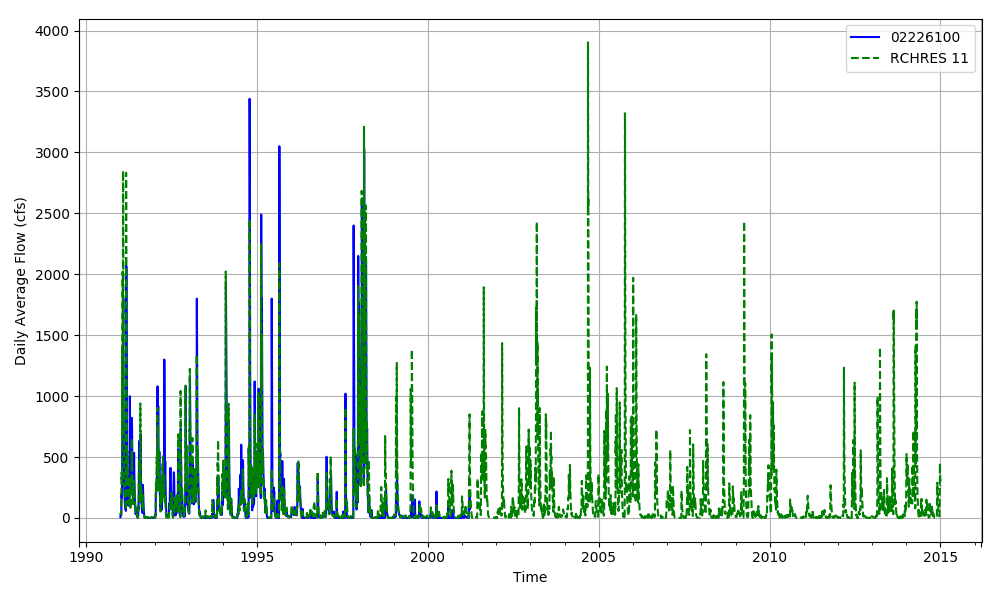


Figure 03070106-7: Daily flow for HSFP reach 11 and USGS station 02226100.

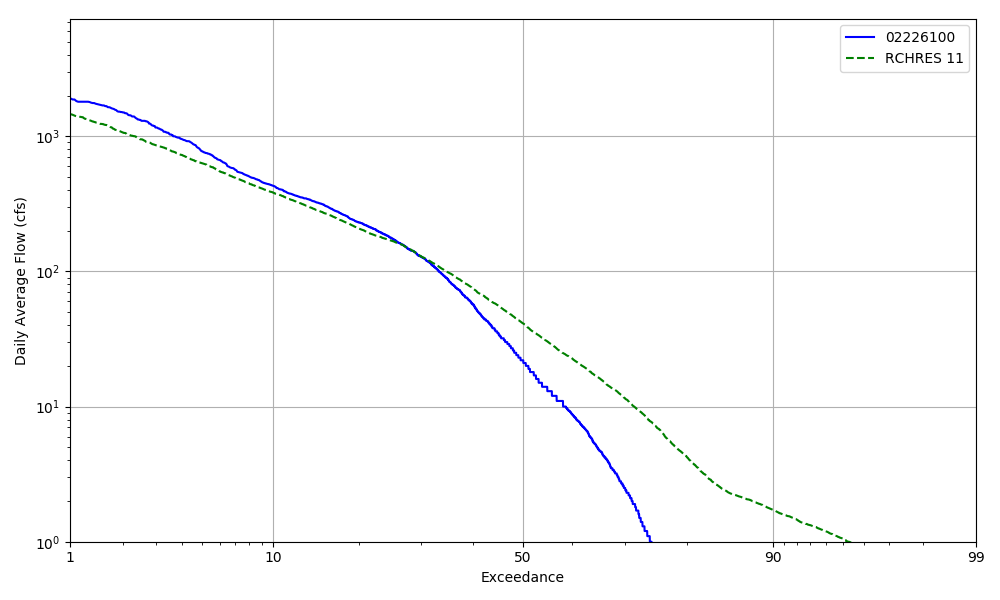


Figure 03070106-8: Daily exceedance for HSFP reach 11 and USGS station 02226100.

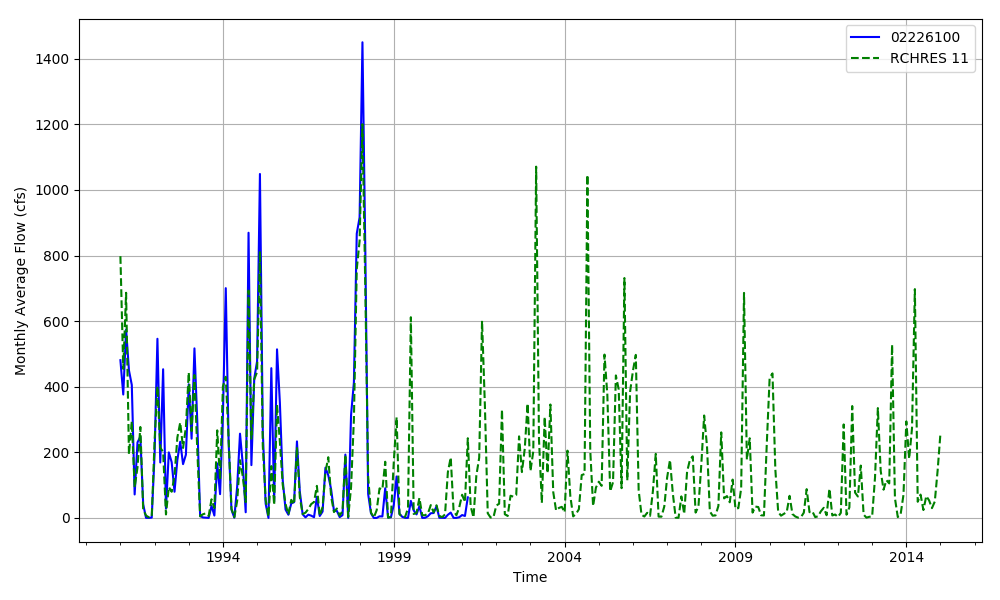


Figure 03070106-9: Monthly flow for HSFP reach 11 and USGS station 02226100.

## HSPF Reach 16, USGS Gauge 02226000

Table 03070106-5: Comparison Statistics Between HSPF Reach 16 and USGS Gauge 02226000.

|  |  |
| --- | --- |
| Statistic | Value |
| Bias | -353.19 |
| Standard error | 4068.19 |
| Relative bias | -0.03 |
| Relative standard error | 0.32 |
| Nash-Sutcliffe coefficient | 0.90 |
| Kling-Gupta coefficient | 0.86 |
| Coefficient of efficiency | 0.75 |
| Index of agreement | 0.87 |

Table 03070106-6: Hydrologic Indices Between USGS Gauge 02226000 and HSPF Reach 16.

|  |  |  |  |
| --- | --- | --- | --- |
| Hydrologic Index and description (Olden and Poff, 2003) | Observed 02226000 | Simulated Reach 16 | Percent Difference |

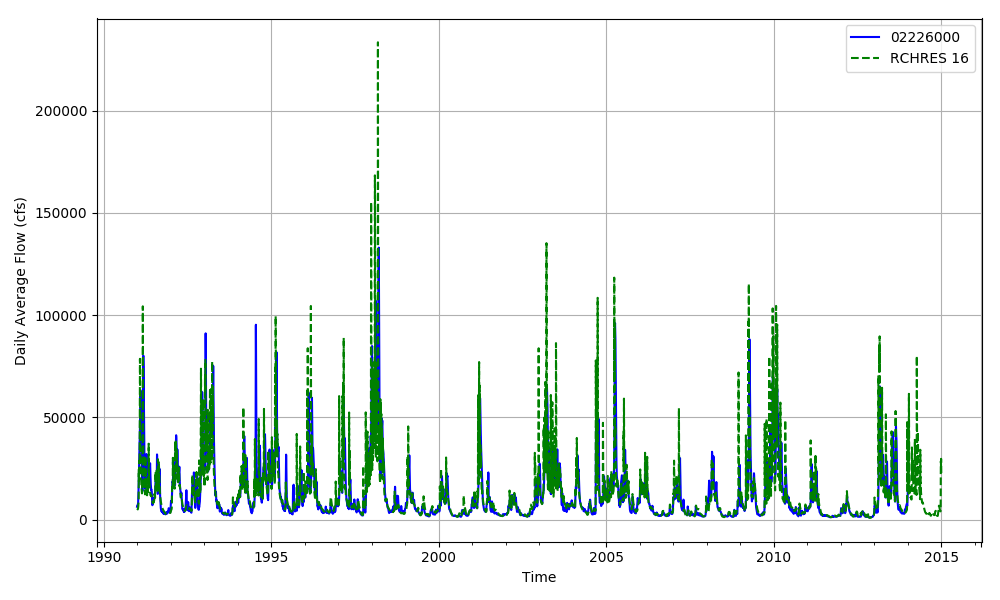


Figure 03070106-10: Daily flow for HSFP reach 16 and USGS station 02226000.

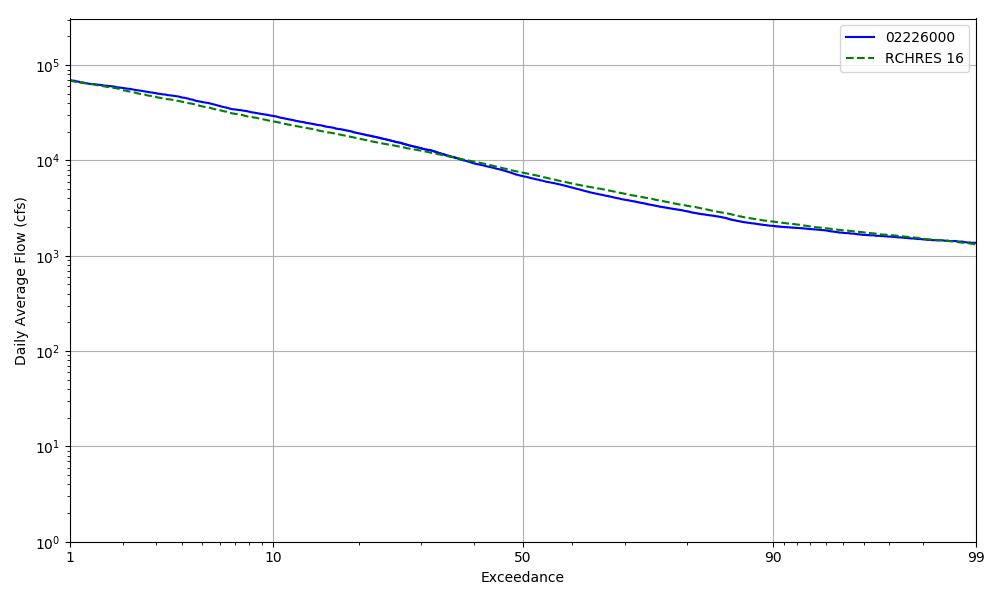


Figure 03070106-11: Daily exceedance for HSFP reach 16 and USGS station 02226000.

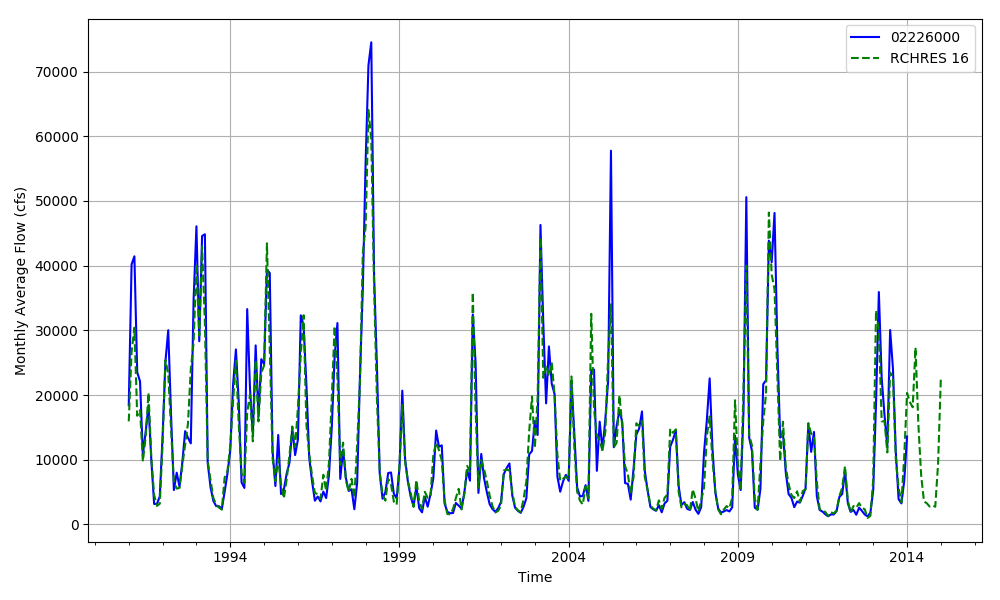


Figure 03070106-12: Monthly flow for HSFP reach 16 and USGS station 02226000.