

Lake Okeechobee System Operating Manual

Iteration 3 - Phase 2 Batch Analysis

Sanibel-Captiva Conservation Foundation

Conservancy of Southwest Florida

DRAFT - November 16, 2021



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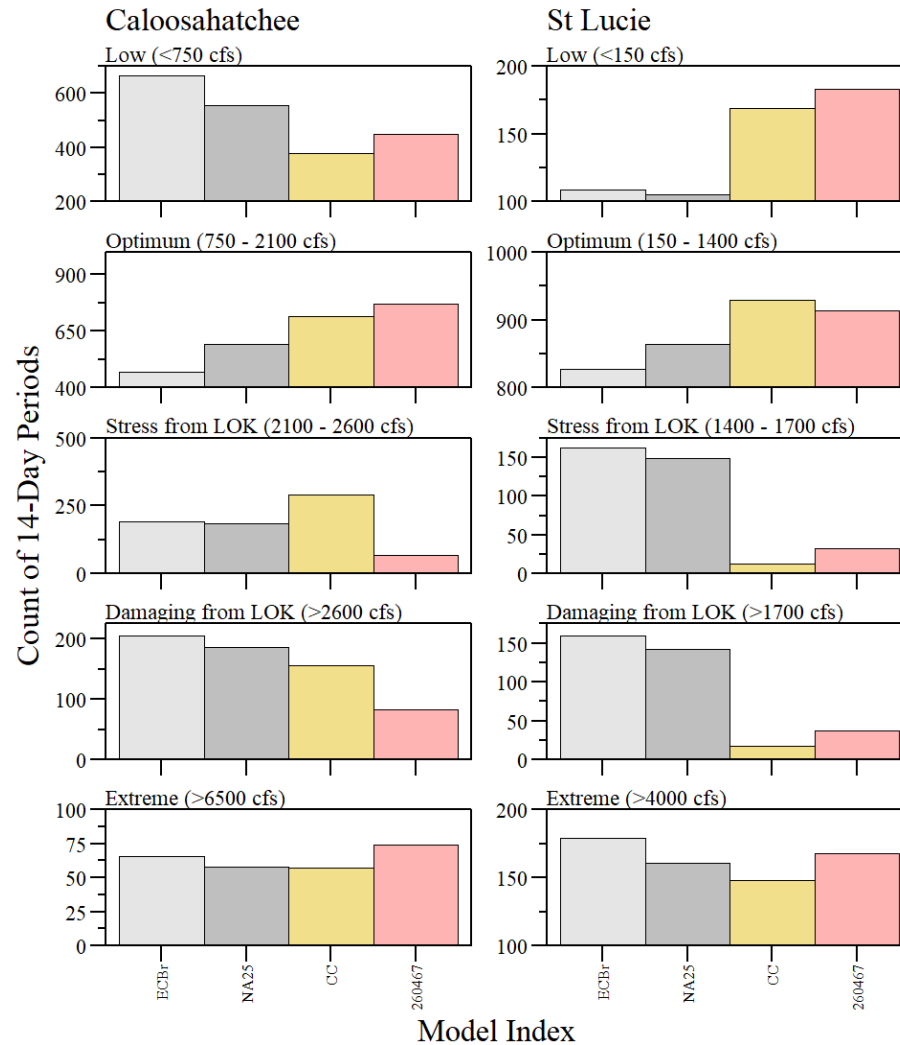
Iteration 3 - Phase 2

| Performance Measure | Model Index | |
|--|-------------|--------|
| | CC | 260467 |
| CRE - Low (PM30) | -32.2 | -19.1 |
| CRE - Optimum (PM31) | 20.4 | 30.0 |
| CRE - Stress from LOK (PM37) | 57.9 | -62.8 |
| CRE - Damaging from LOK (PM38) | -16.1 | -55.9 |
| CRE - Extreme (PM36) | -1.7 | 27.6 |
| SLE - Low (PM80) | 61.0 | 74.3 |
| SLE - Optimum (PM81) | 7.5 | 5.7 |
| SLE - Stress from LOK (PM86) | -91.2 | -78.4 |
| SLE - Damaging from LOK (PM87) | -88.0 | -73.9 |
| SLE - Extreme (PM85) | -8.1 | 4.3 |
| CRE - Months >6500 cfs (PM79) | -15.8 | 31.6 |
| SLE - Months >4000 cfs (PM117) | -2.4 | 11.9 |
| S308 Regulatory Flow (PM88) | -61.7 | -37.4 |
| S77 Regulatory Flow (PM40) | 9.5 | -3.1 |
| LOK - Total Stage Envelope Penalty (PM10+PM11) | 13.7 | 37.7 |

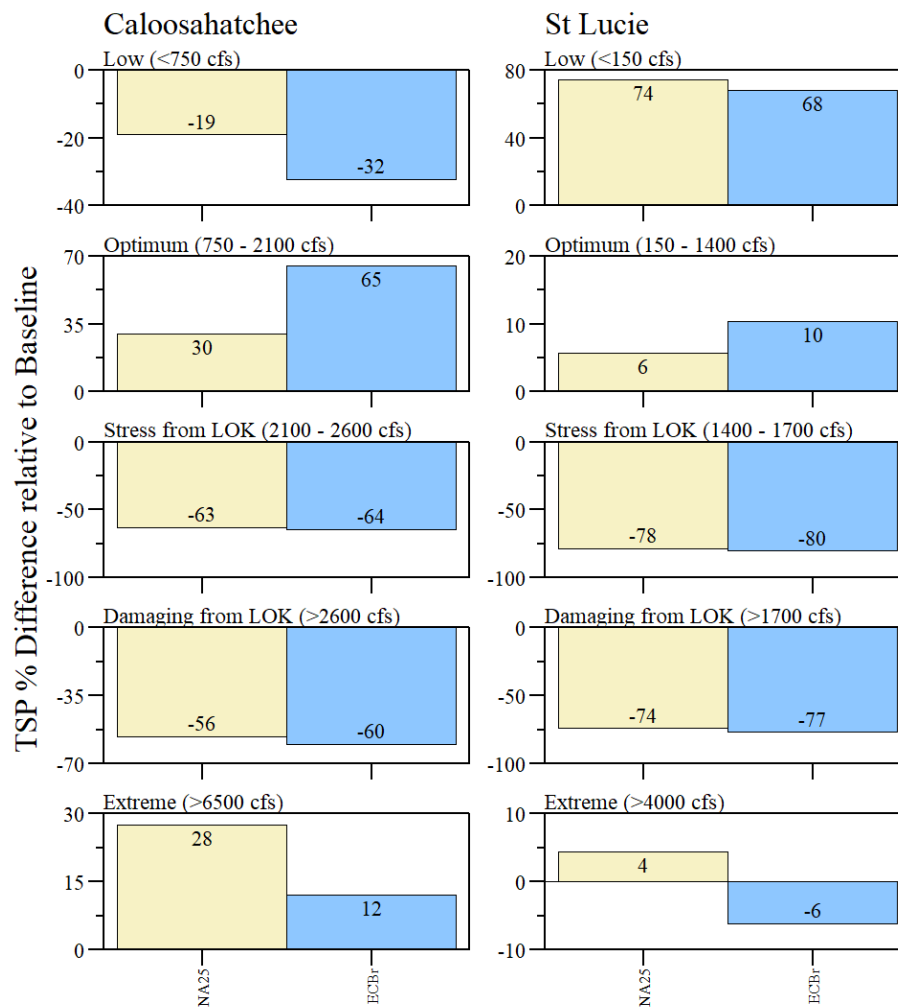
Percent Difference relative to FWO (NA25)

- The selected plan (Model Index 260467) provides substantial reduction in SLE regulatory discharges, SLE stress and damaging from the Lake salinity envelope counts.
- This plan also increases CRE optimum and reduces CRE stress and damaging from the Lake salinity envelope counts.

Salinity Envelope

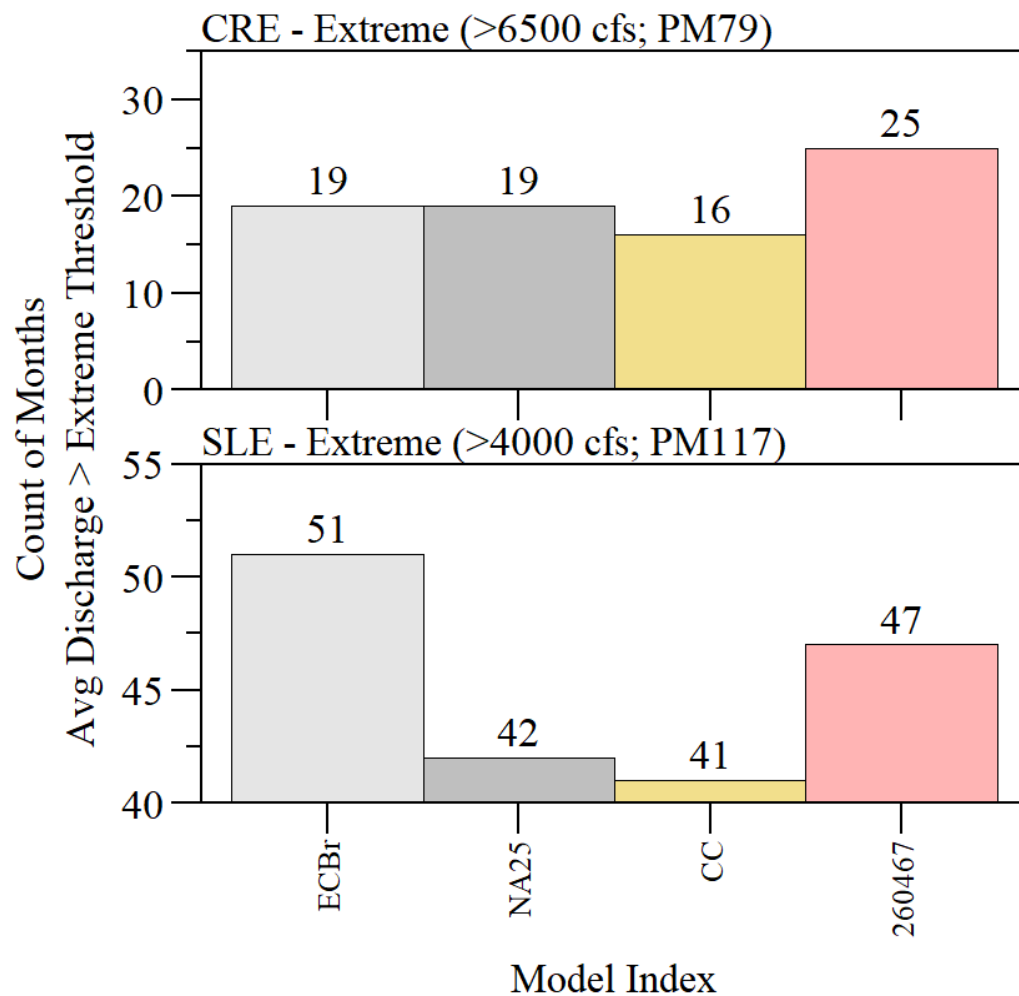


Salinity Envelope - Baselines

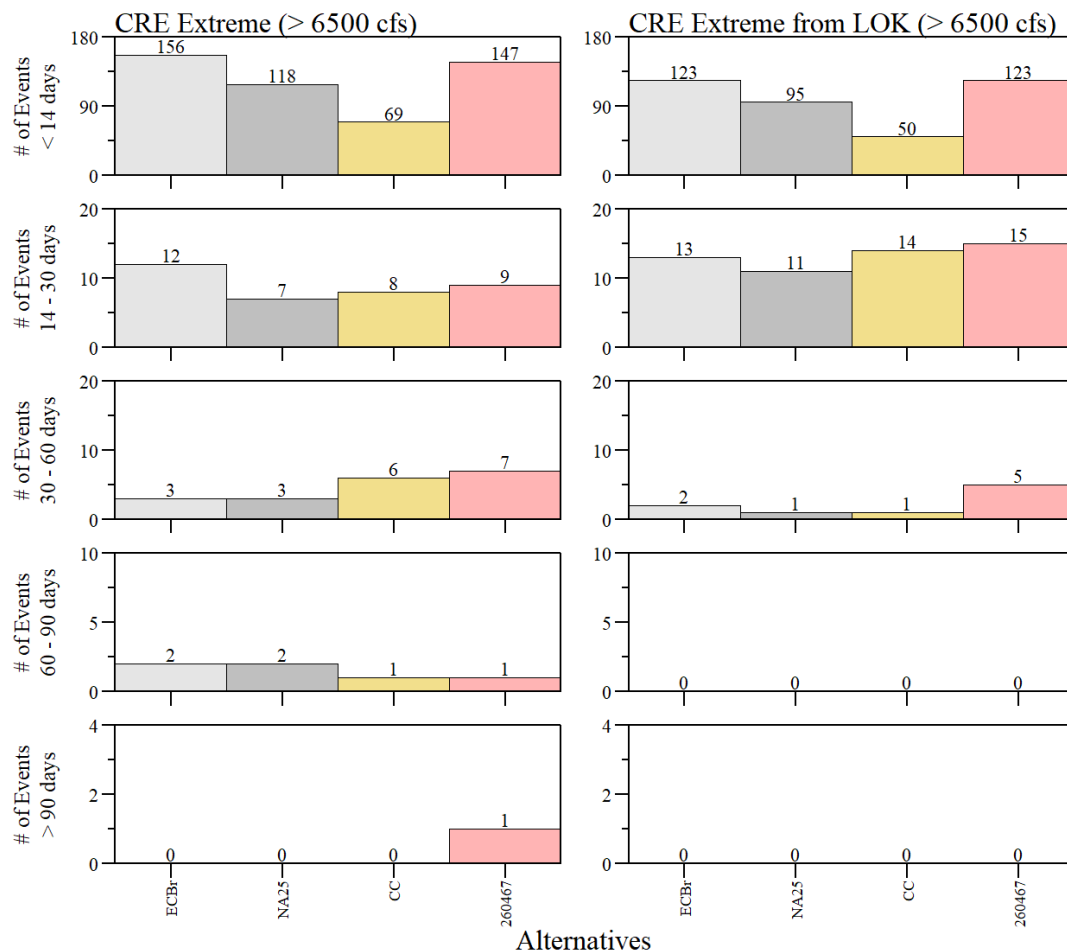


Baselines

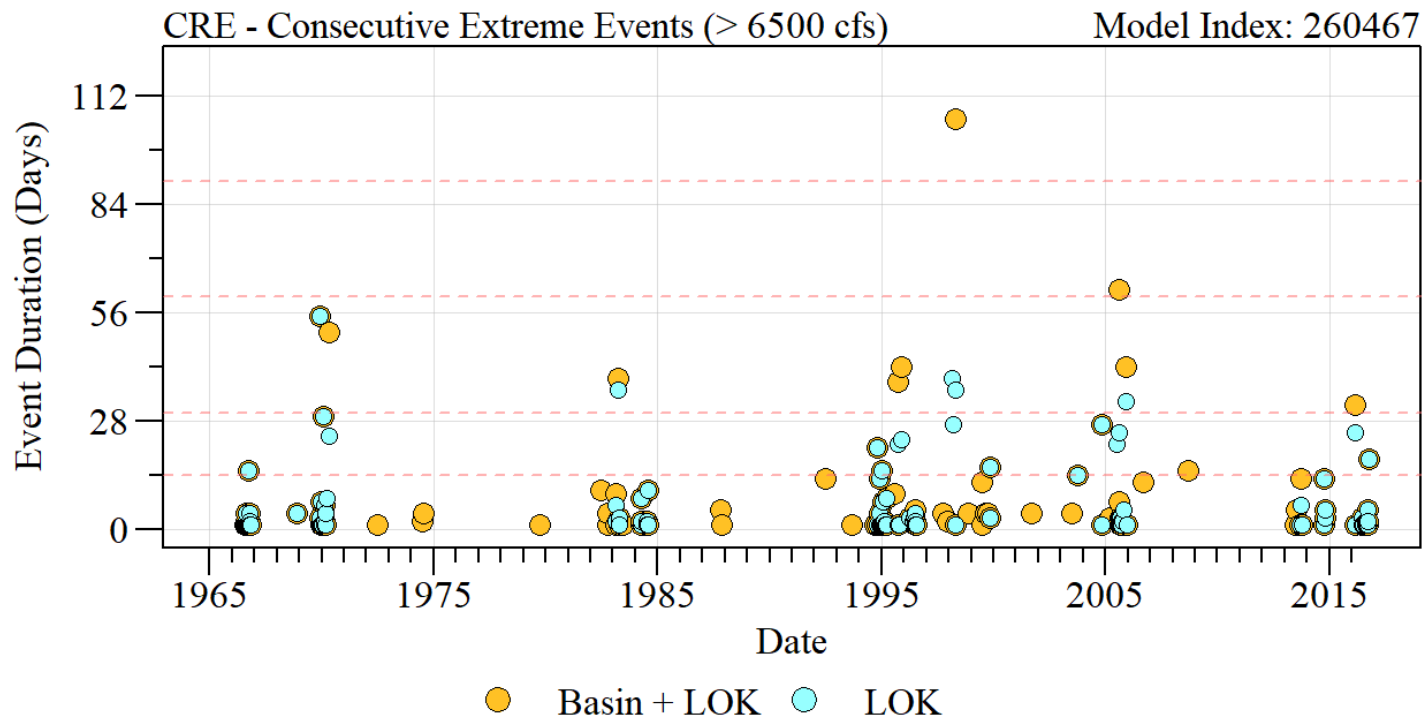
Salinity Envelope - Extreme Discharges



Salinity Envelope - Extreme Discharges

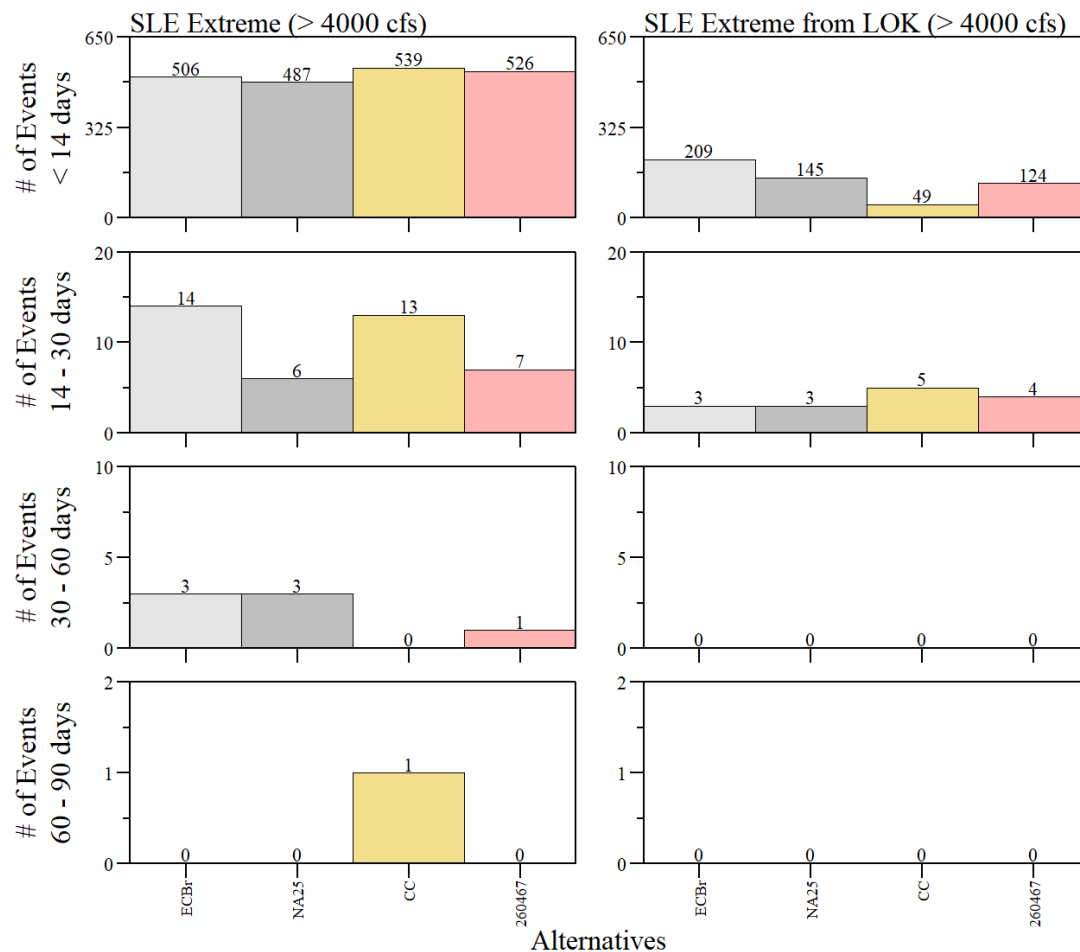


Salinity Envelope - Extreme Discharges

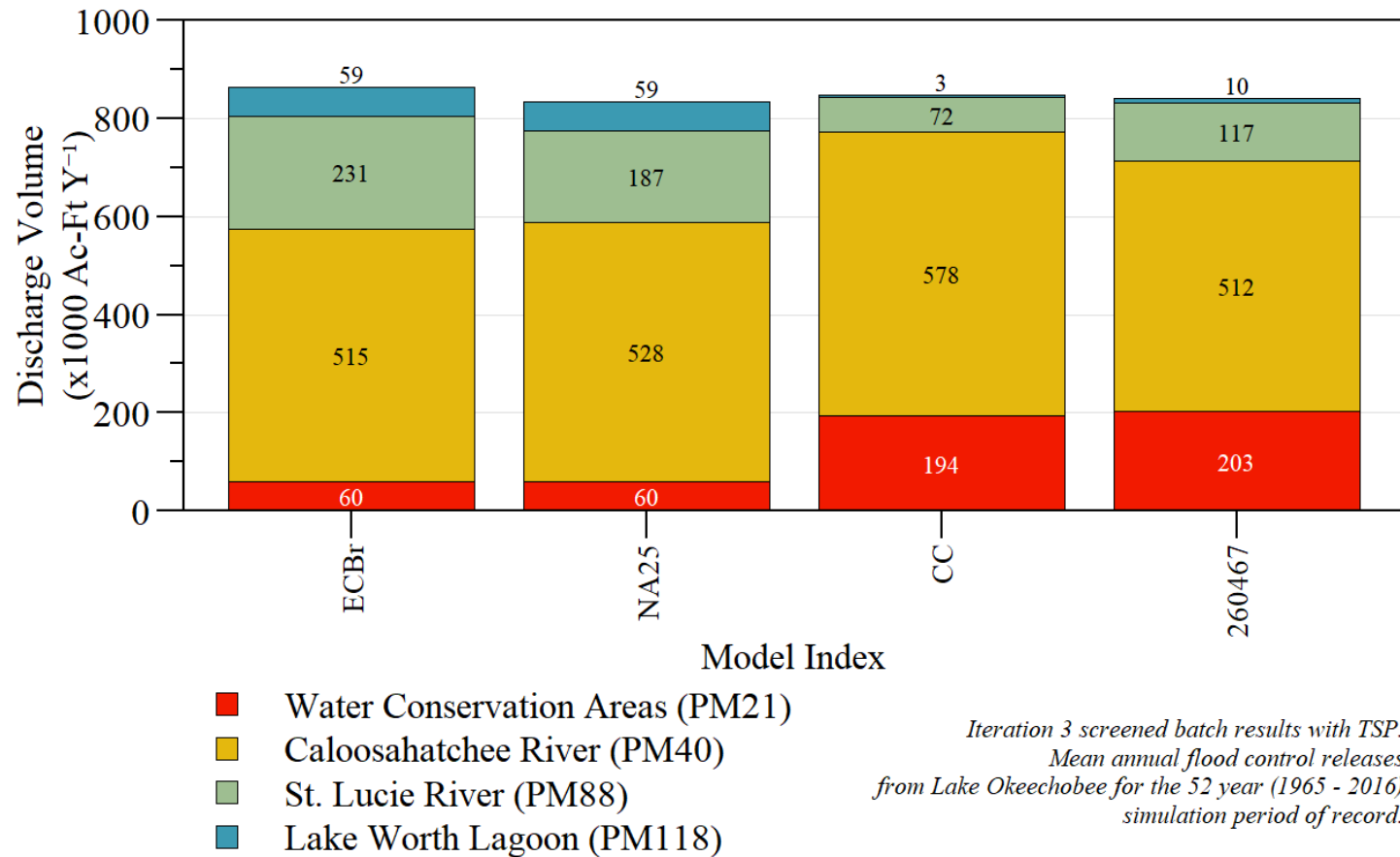


- Based on daily discharges >6500 cfs
- Can have more counts of LOK events/duration than Basin + LOK (see event >90 days)

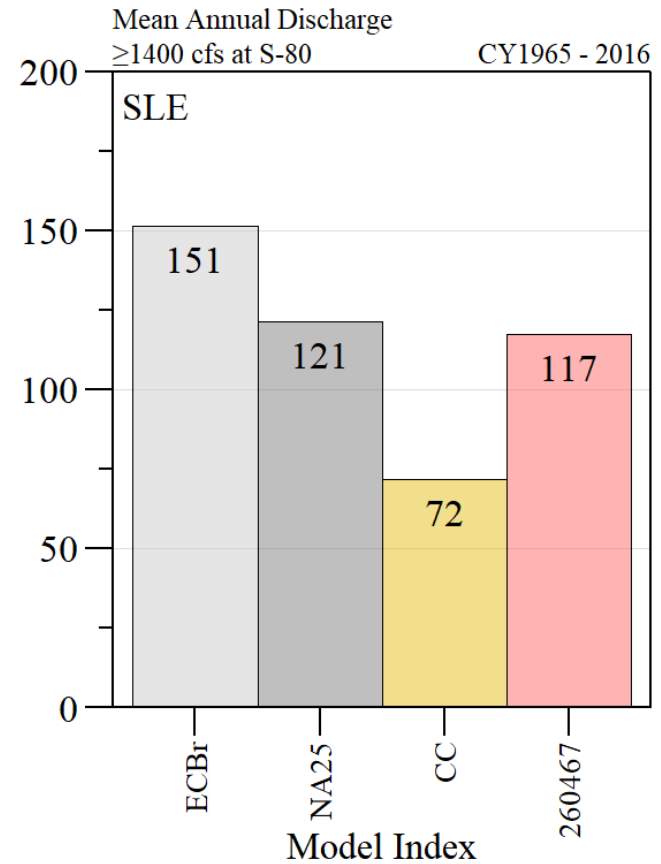
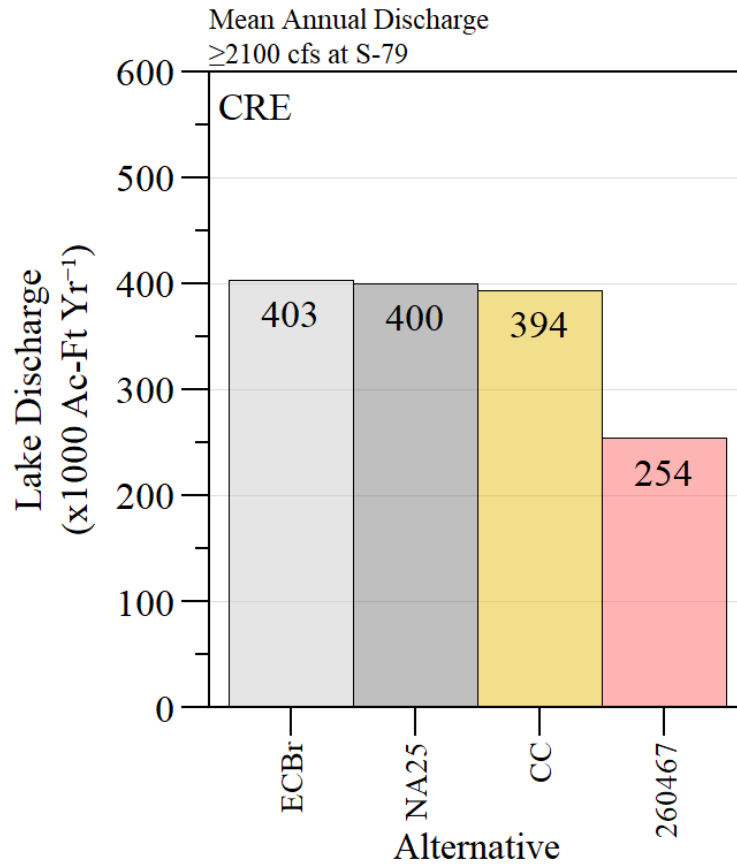
Salinity Envelope - Extreme Discharges



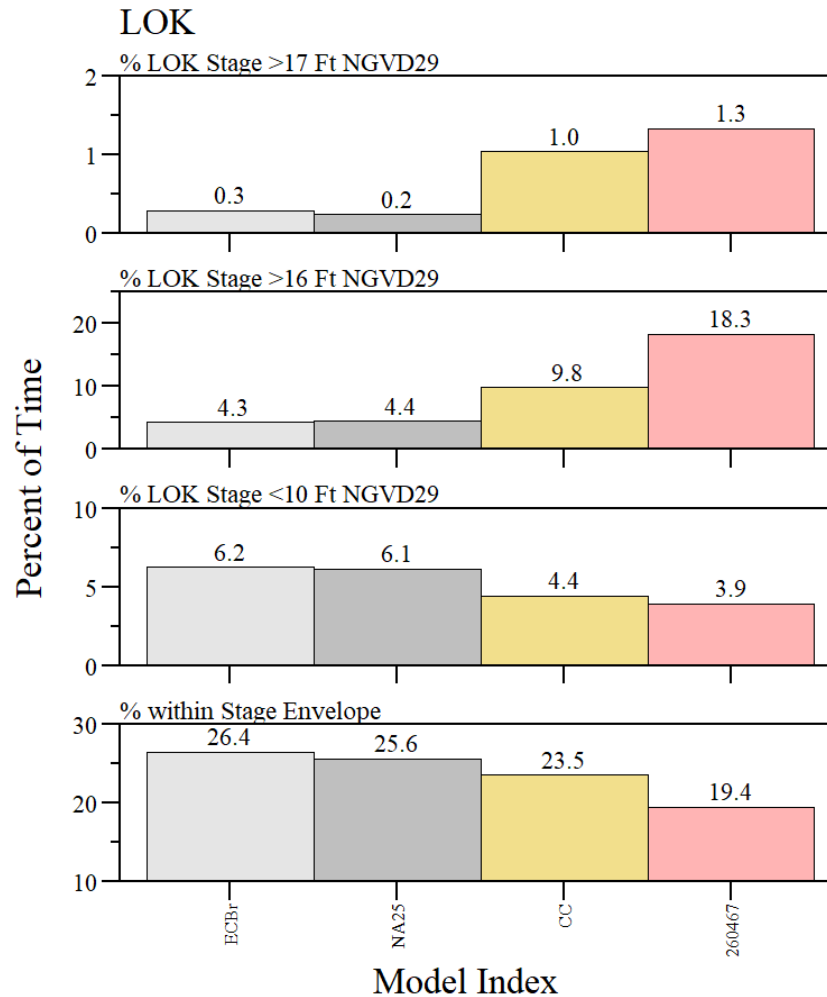
Regulatory Discharges



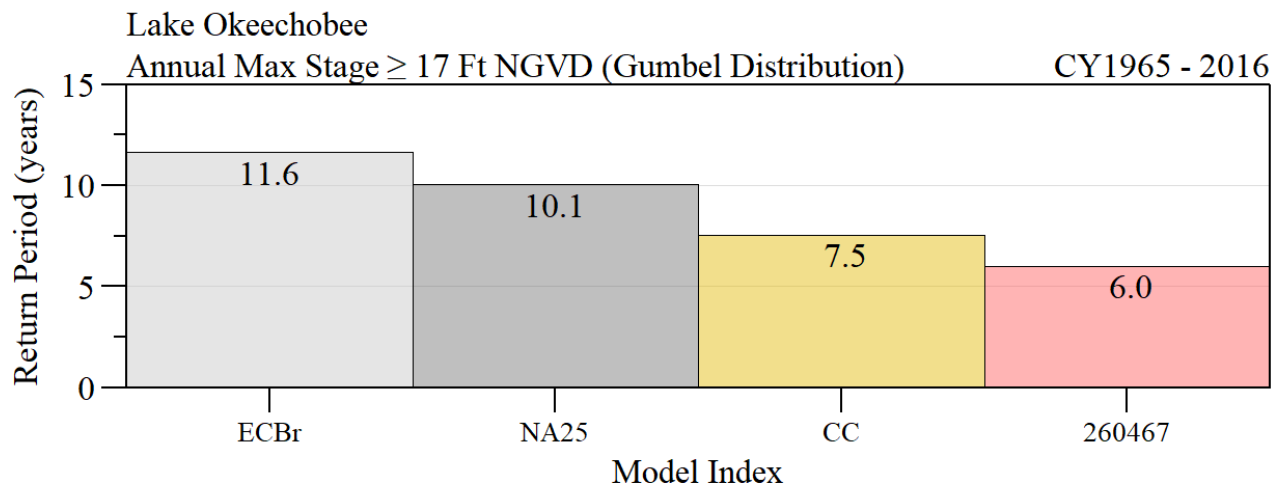
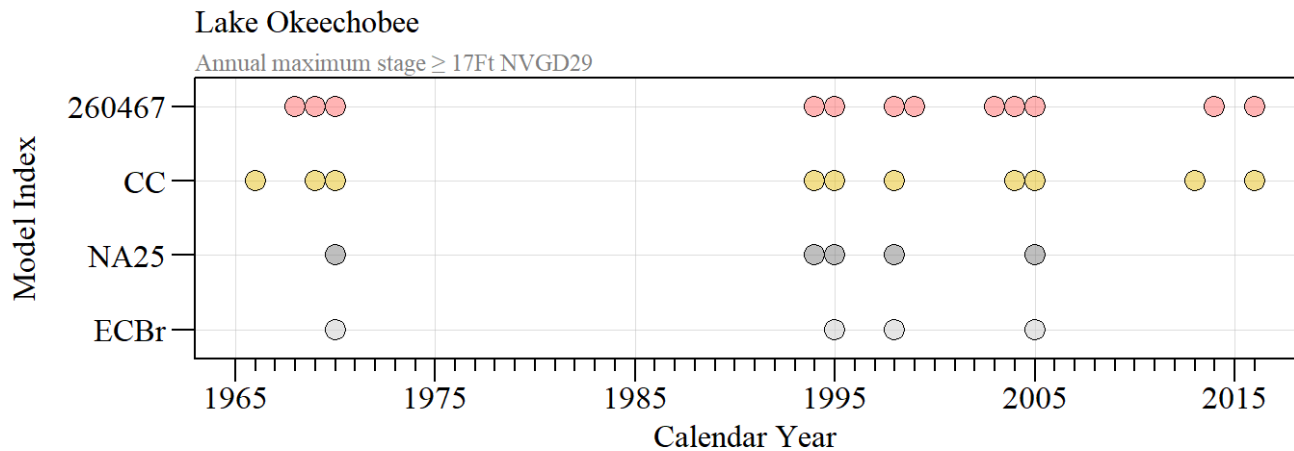
Regulatory Discharges



Lake Okeechobee



Lake Okeechobee



Lake Okeechobee - High Stage Events

