CENTRAL EVERGLADES PLANNING PROJECT

Lake Okeechobee Operations Interactive Simulation Exercise

Are you smarter than a water manager?

PRESENTED BY

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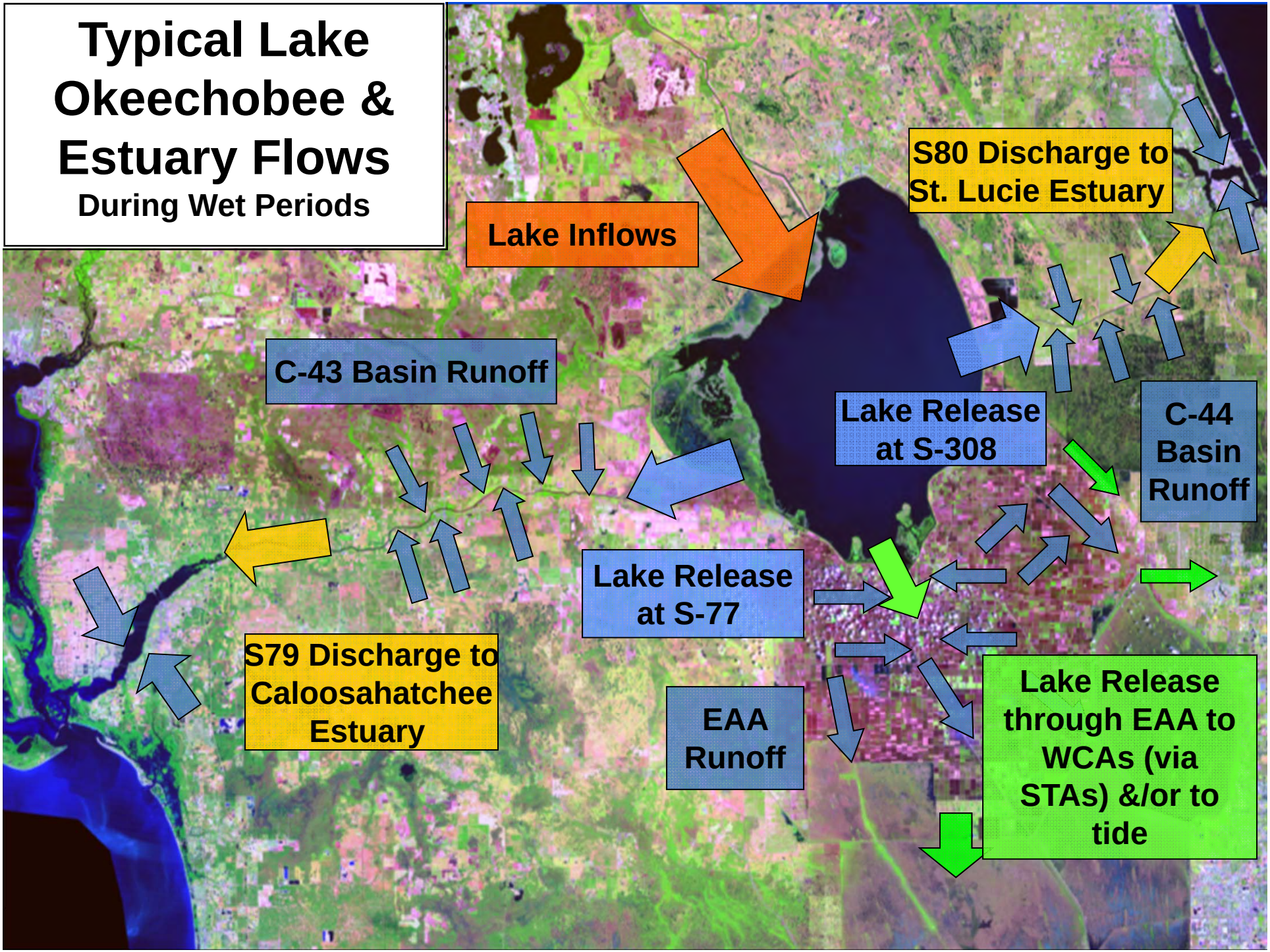
Water Control Operations
South Florida Water Management District

June 26, 2012

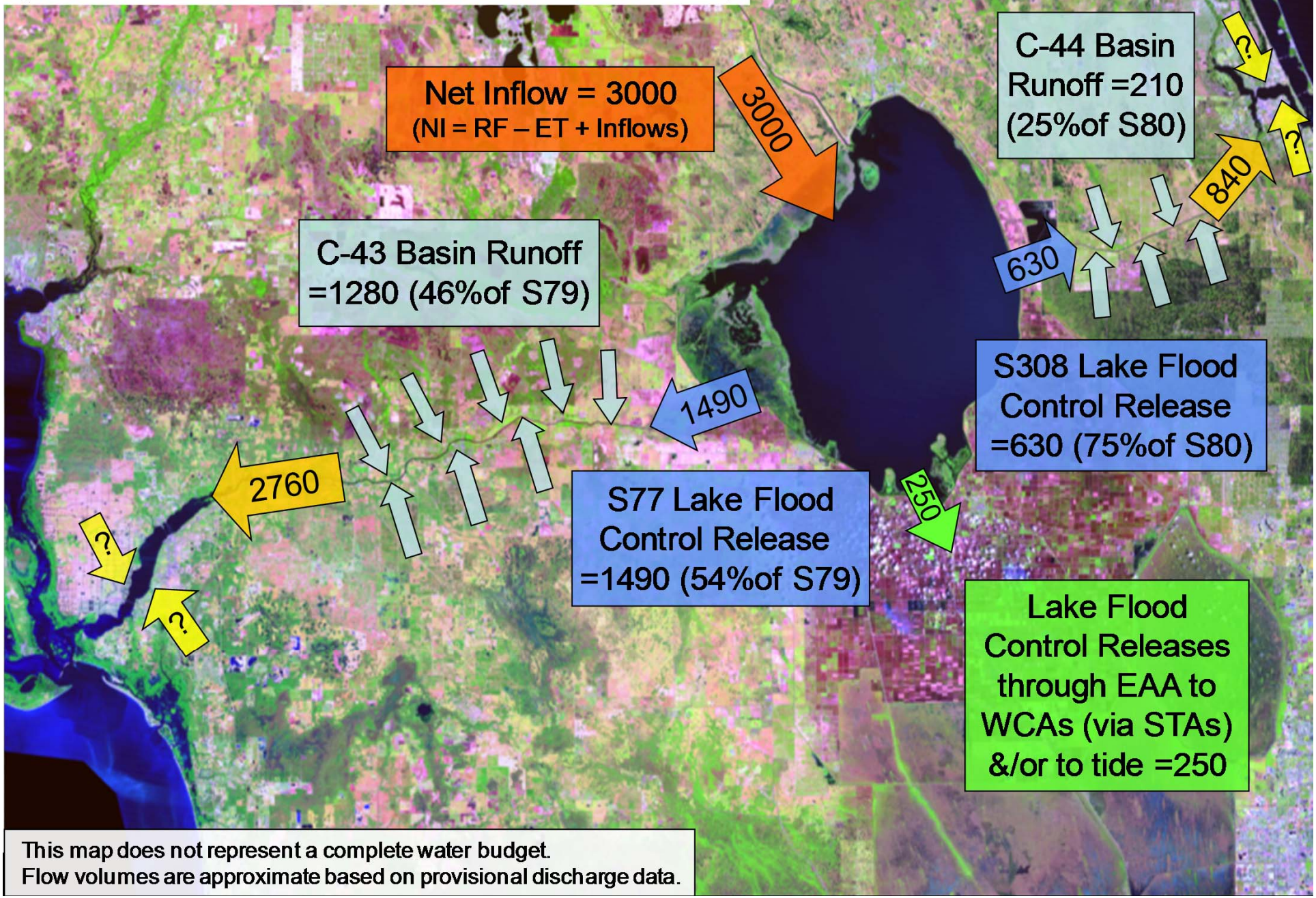
Typical Lake Okeechobee & Estuary Flows

During Wet Periods



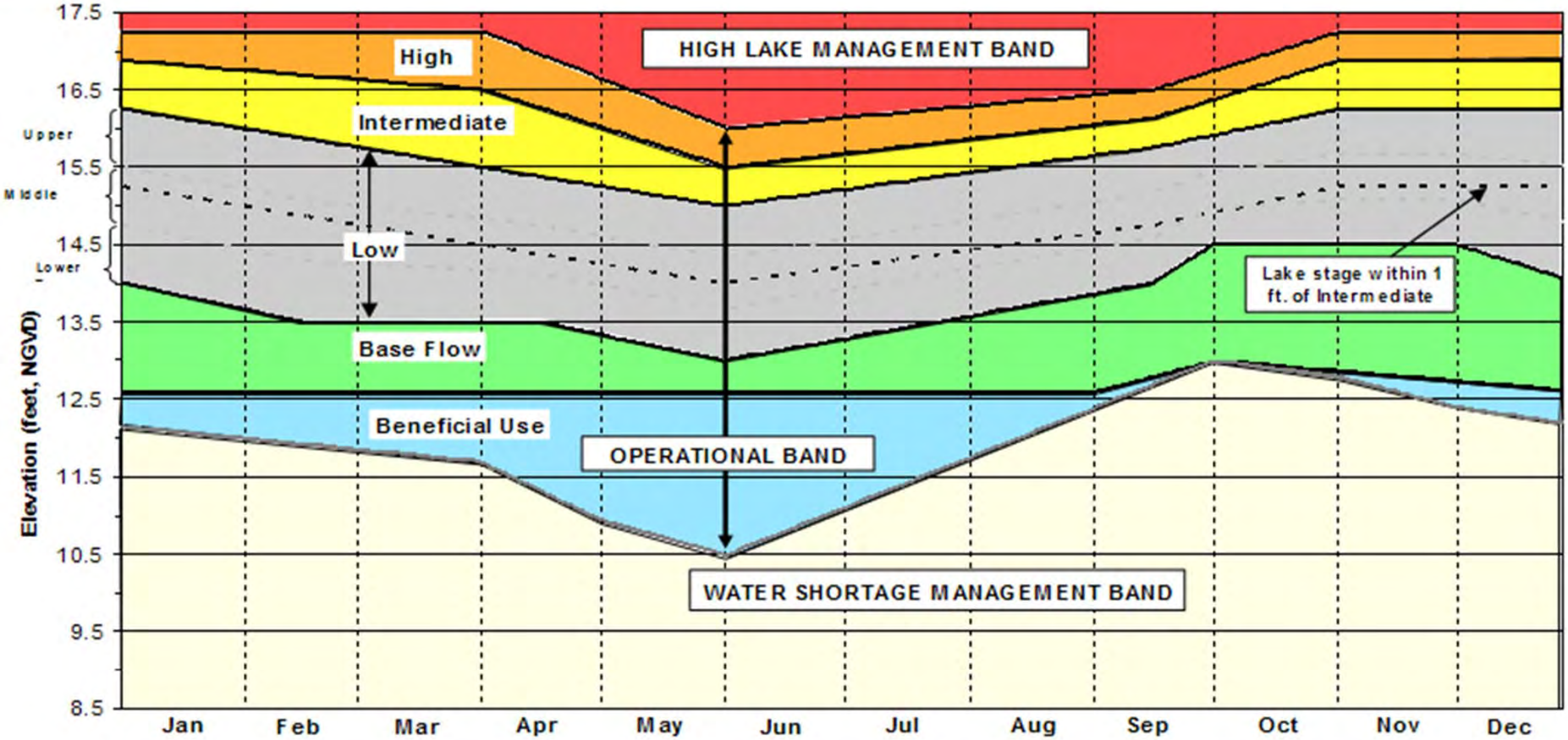
Lake Okeechobee & Estuary Flows

(2003-2005 calendar year means in thousand acre-feet)



This map does not represent a complete water budget.
Flow volumes are approximate based on provisional discharge data.

2008 Lake Okeechobee Interim Regulation Schedule (aka LORS-2008)



NOTES:

High Lake Management Band: Outlet canals may be maintained above their optimum water management elevations.
Operational Band: Outlet canals should be maintained within their optimum water management elevations.
Water Shortage Management Band: Outlet canals may be maintained below optimum water management elevations.

CENTRAL AND SOUTHERN FLORIDA PROJECT

2008 LAKE OKEECHOBEE
INTERIM REGULATION SCHEDULE

PART B

DATED: March 2008
DEPARTMENT OF THE ARMY, JACKSONVILLE DISTRICT
CORPS OF ENGINEERS, JACKSONVILLE, FLORIDA

Figure 7-2

2008 LORS

Part D: Establish Allowable Lake Okeechobee Releases to Tide (Estuaries)

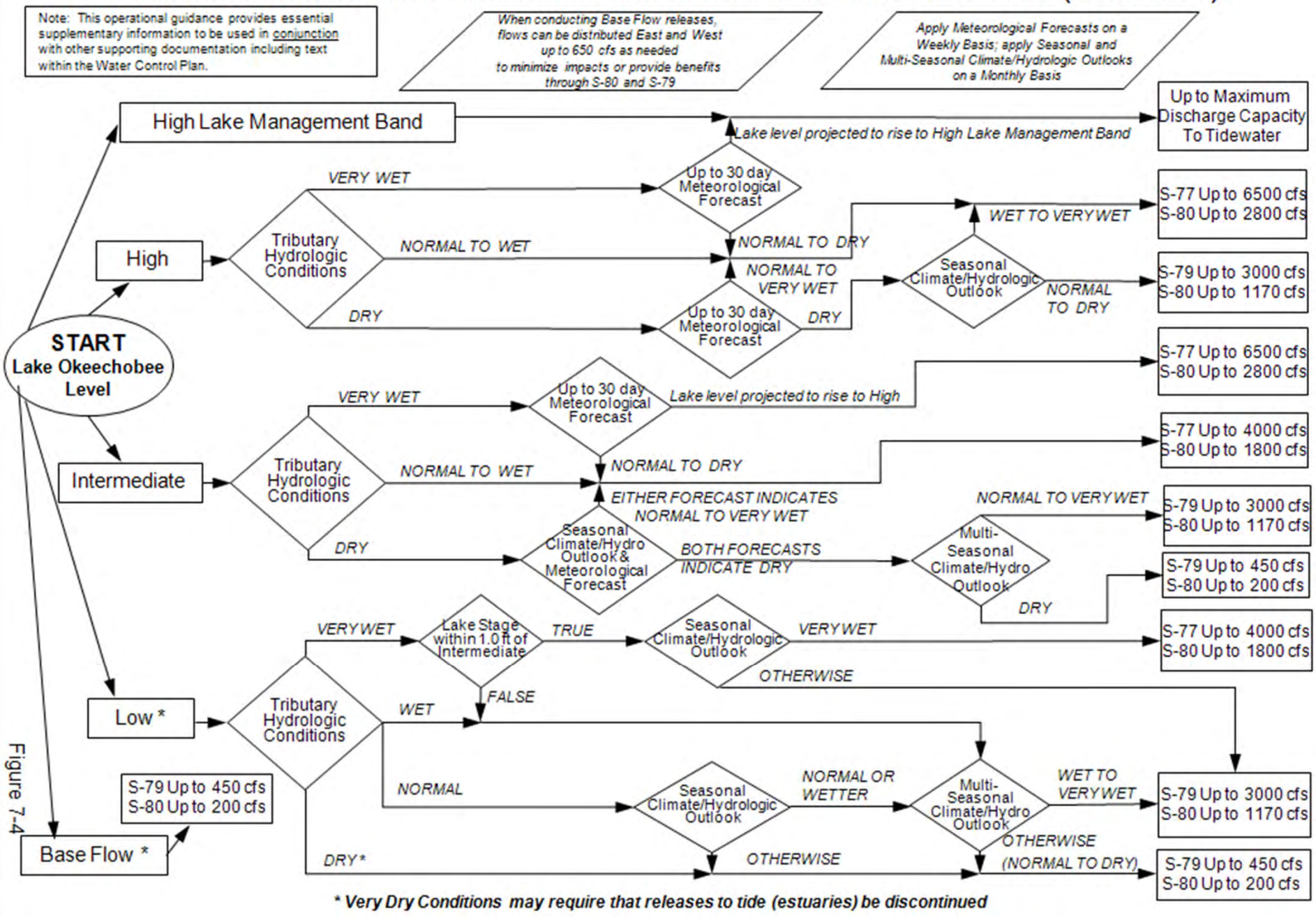
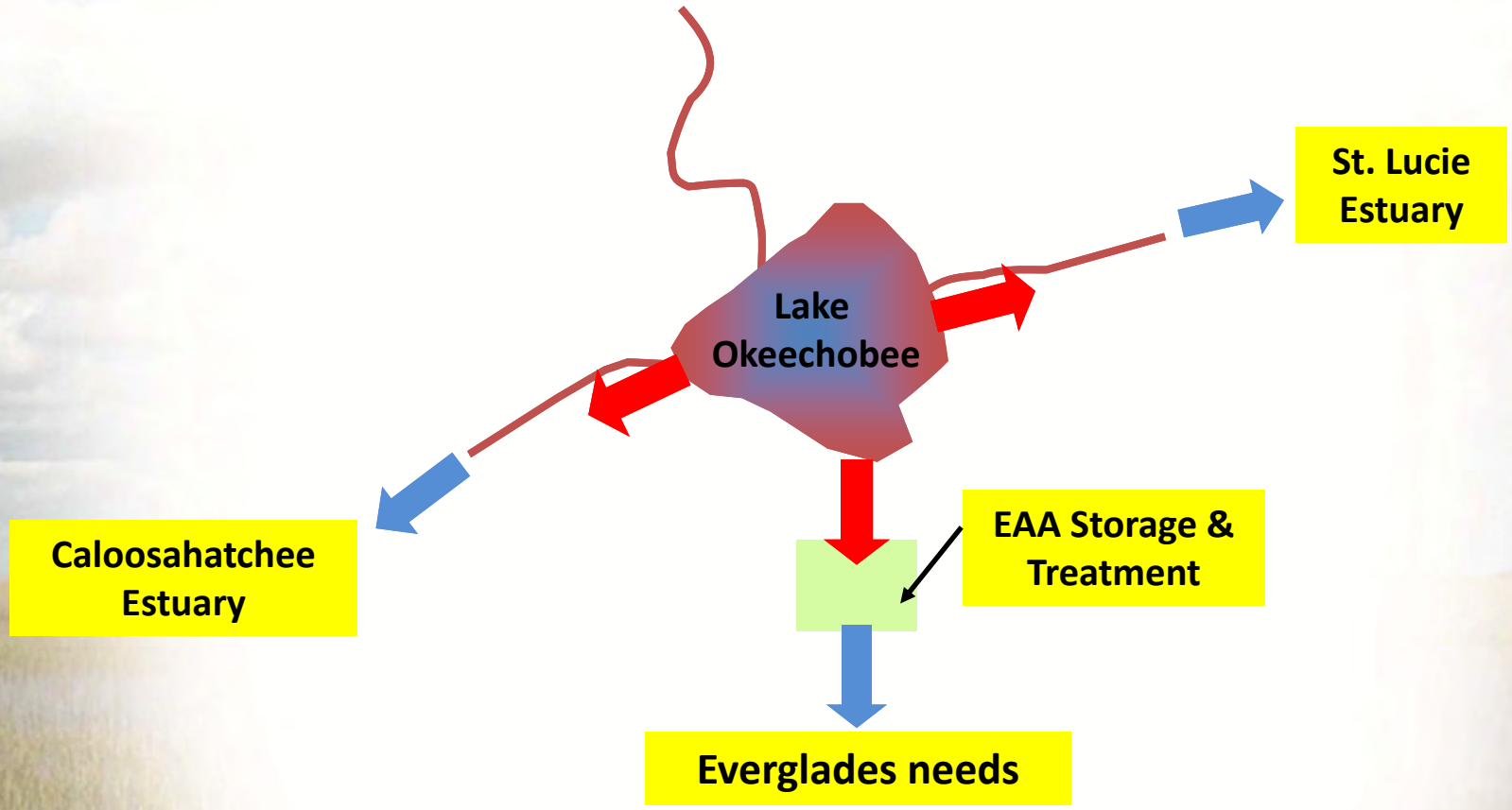


Figure 7-4

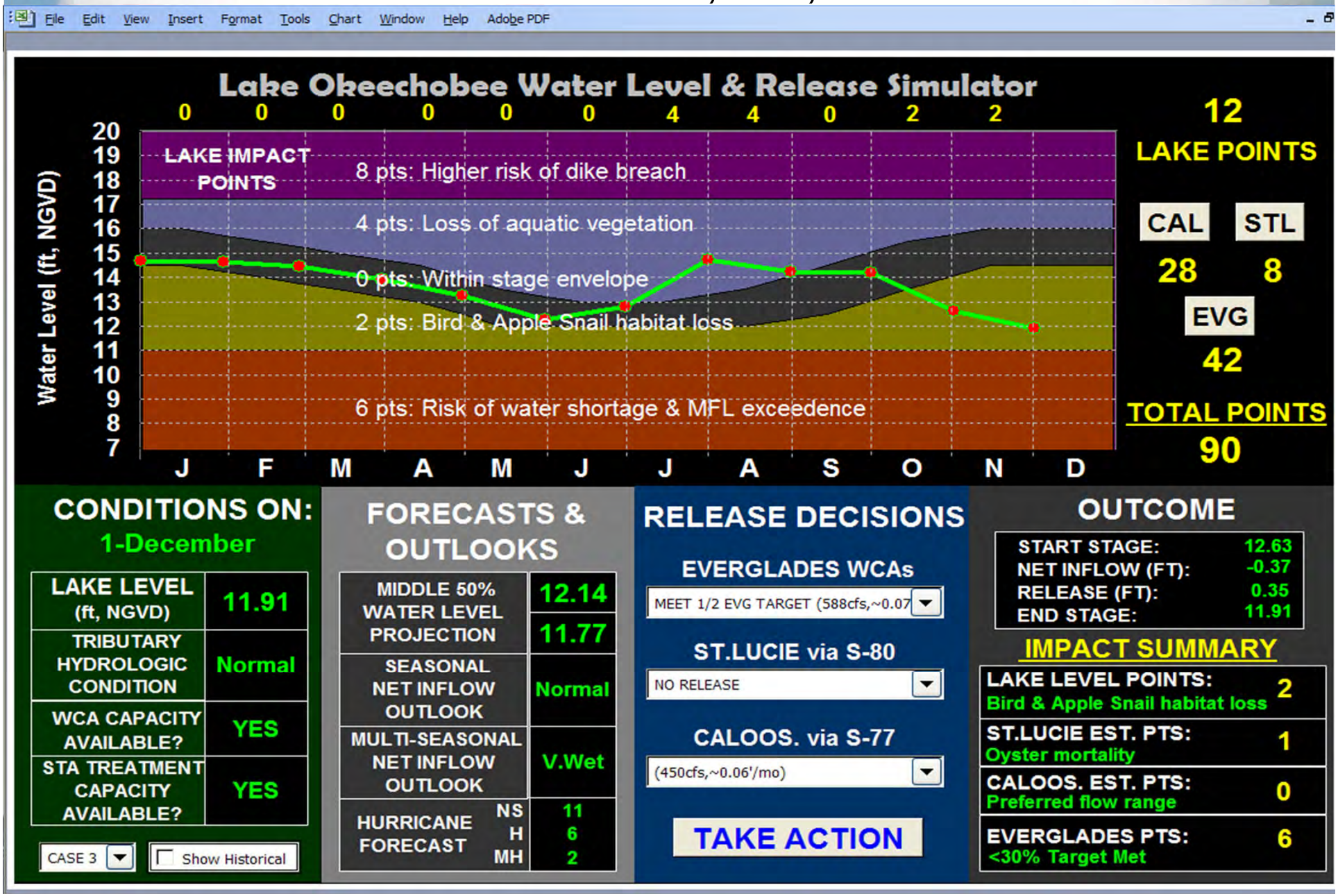
Lake Okeechobee Operations Interactive Simulator

Release Decision Locations



Lake Okeechobee Interactive Simulator

Calvin Neidrauer, P.E., SFWMD



Lake Okeechobee Discharge Options for the Interactive Simulation Exercise

CALOOSAHATCHEE VIA S-77

MAX RELEASE (7800cfs,~0.99'/mo)
HIGH RELEASE (6500cfs,~0.83'/mo)
MEDIUM RELEASE (4000cfs,~0.51'/mo)
LEVEL 3 PULSE (3000cfs,~0.38'/mo)
LEVEL 2 PULSE (2300cfs,~0.29'/mo)
LEVEL 1 PULSE (1600cfs,~0.20'/mo)
BASEFLOW (450cfs,~0.06'/mo)
MINIMUM (300cfs,~0.04'/mo)
NO RELEASE

ST. LUCIE VIA S-80

MAX RELEASE (7200cfs,~0.92'/mo)
HIGH RELEASE (2800cfs,~0.36'/mo)
MEDIUM RELEASE (1800cfs,~0.23'/mo)
LEVEL 3 PULSE (1170cfs,~0.15'/mo)
LEVEL 2 PULSE (950cfs,~0.12'/mo)
LEVEL 1 PULSE (730cfs,~0.09'/mo)
NO RELEASE

EVERGLADES WCAs*

MAX RELEASE (3995cfs,~0.51')
MEET EVG TAR & FILL STO (3050cfs,~0.39')
MEET EVG TAR & 1/2 STO (1840cfs,~0.23')
MEET EVG TARGET (630cfs,~0.08')
MEET 1/2 EVG TARGET (397cfs,~0.05')
NO RELEASE TO EVG OR STO

**** Monthly release rates vary with Everglades Flow Target***

Lake Okeechobee Interactive Simulation Exercise

Scores from recent sessions (same simulation year)

	2008 Lake O Regulation Schedule	SFWMD Governing Board May-2010	Broward Co. WRTF & TAC Oct-2010	CISRERP A.M. GROUP May-2011	CISRERP P.M. GROUP May-2011	UF Water Institute Students Aug-2011
Caloosahatchee	15	19	11	7	11	7
St. Lucie	10	10	6	7	10	6
Lake Okeechobee	16	26	20	20	24	28
Total	41	55	37	34	45	41

Lake Okeechobee Interactive Simulation Exercise

	SFER Working Group CEPP Workshop Jun-2012					
Caloosahatchee	?					
St. Lucie	?					
Lake Okeechobee	?					
Everglades	?					
Total	??					