

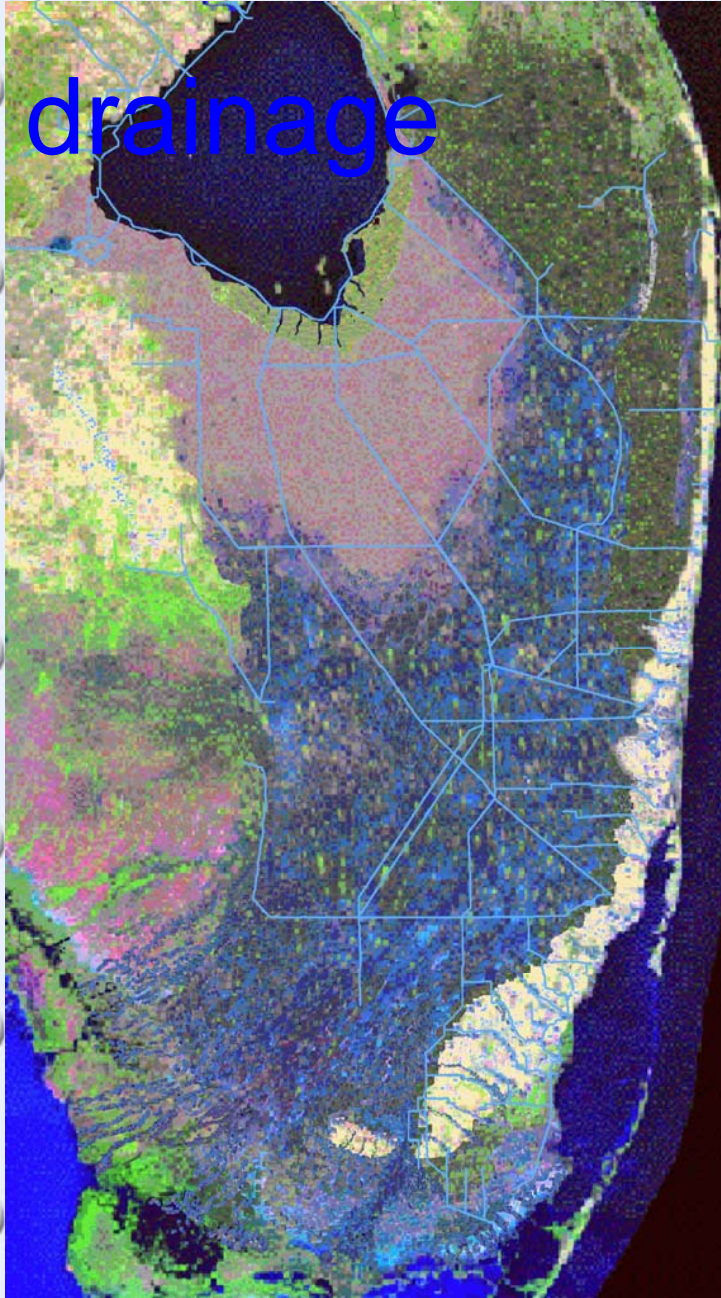
Hydrology of the Everglades Past and Present

Using historical data to re-construct
pre-drainage topography

Elevation difference is the driving force

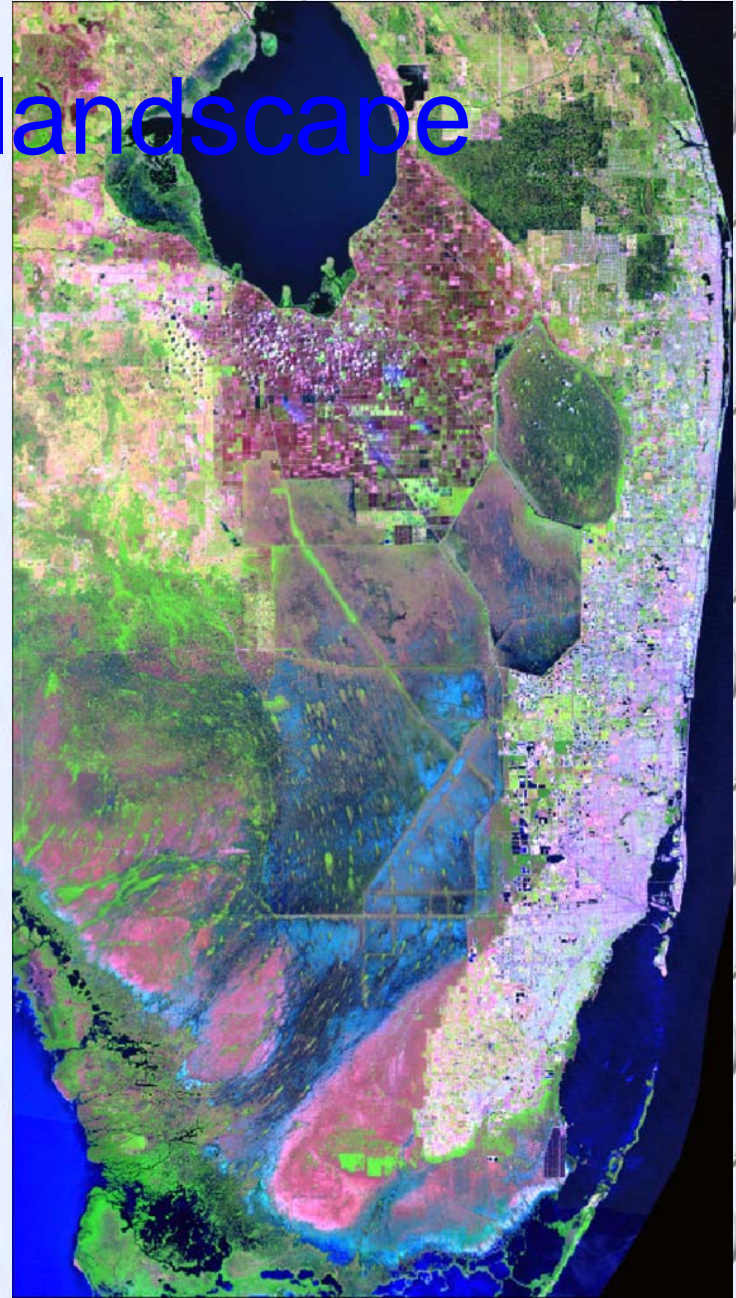
Comparisons of pre-drainage hydrology
to current conditions

Pre- drainage



Source: Adapted from SFWMD

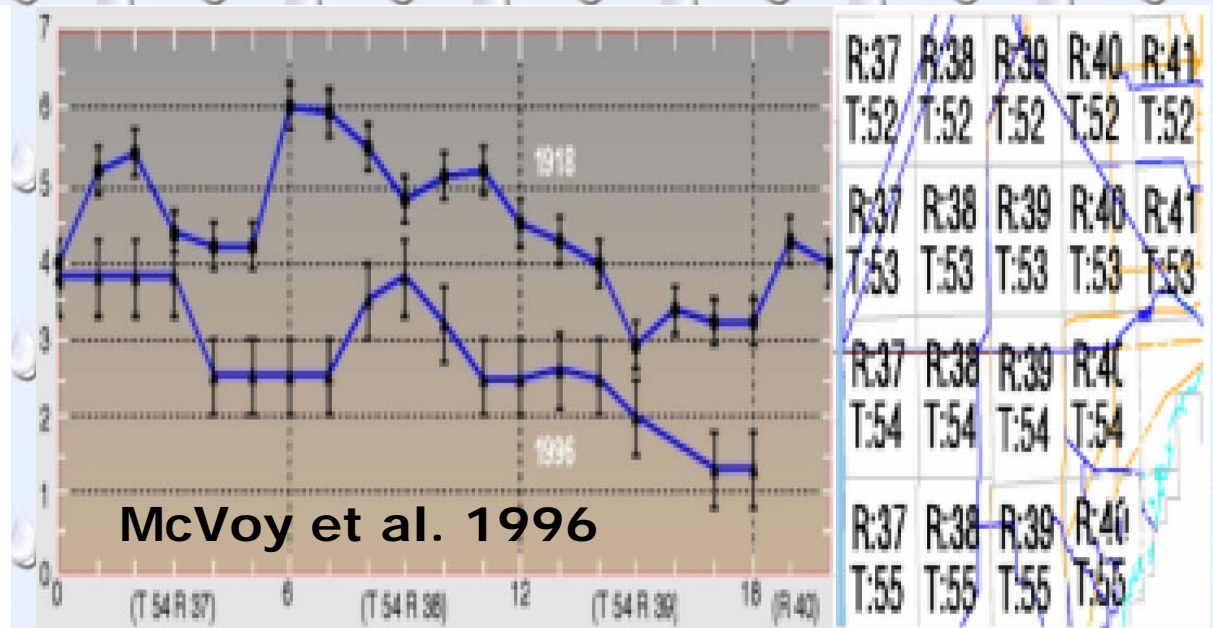
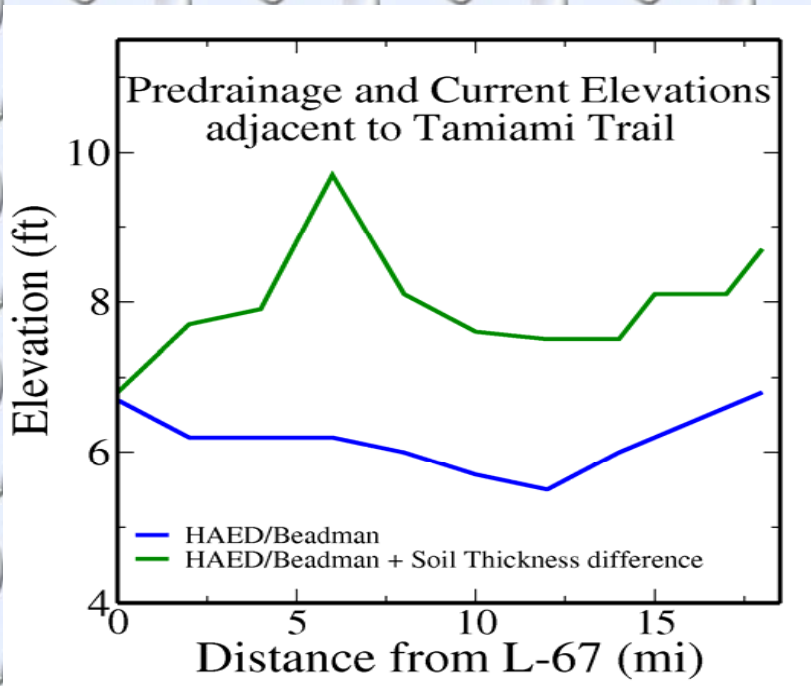
Current landscape



Source: SFWMD

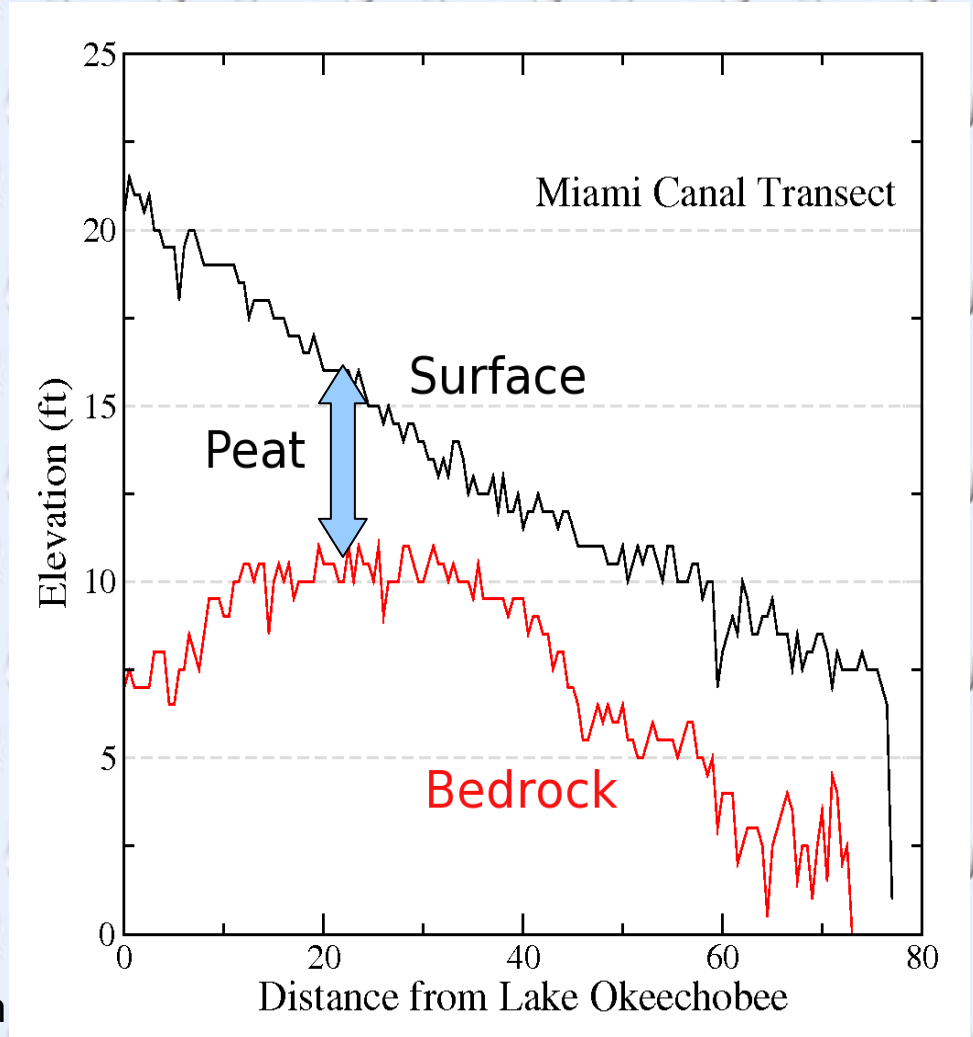
Tamiami Trail

Peat thickness surveys available for several years from 1918 on. Difference in peat thickness between 1918 and 1996 added to elevation data. Indicates pre-project surface elevation exceeds 8 feet.

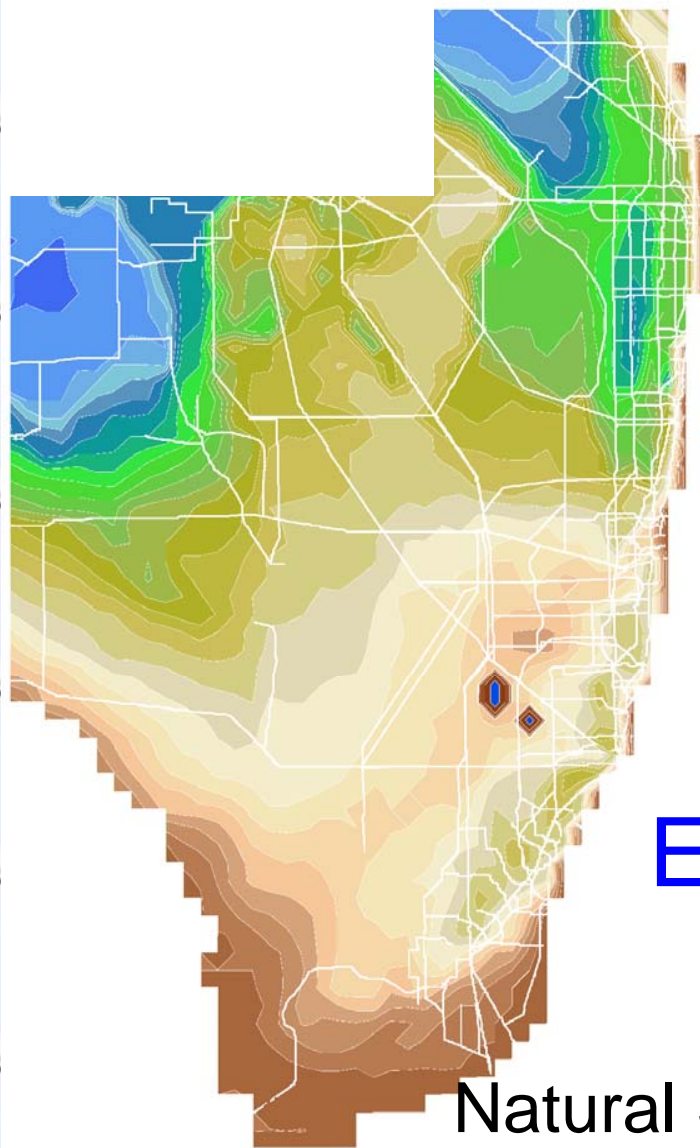


Profiles

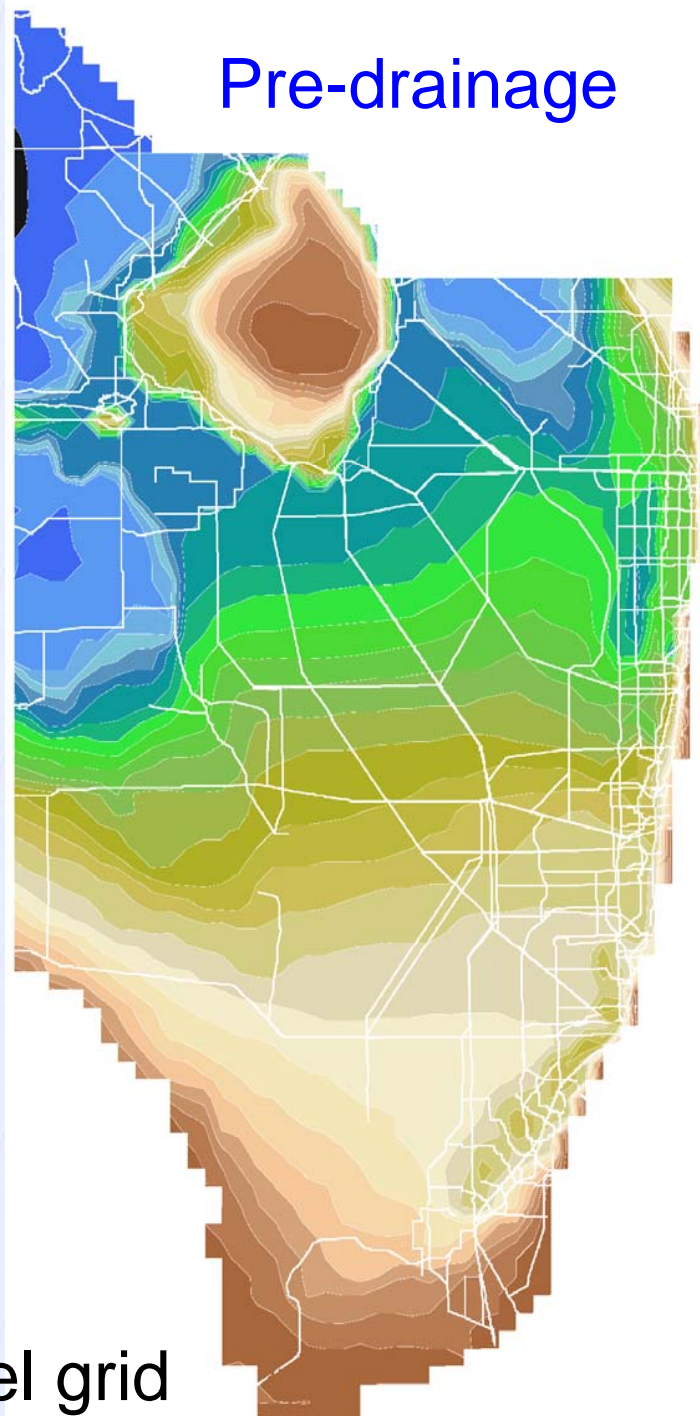
West Palm Beach Canal
Hillsboro Canal
North New River
South New River
Miami Canal



Current



Pre-drainage

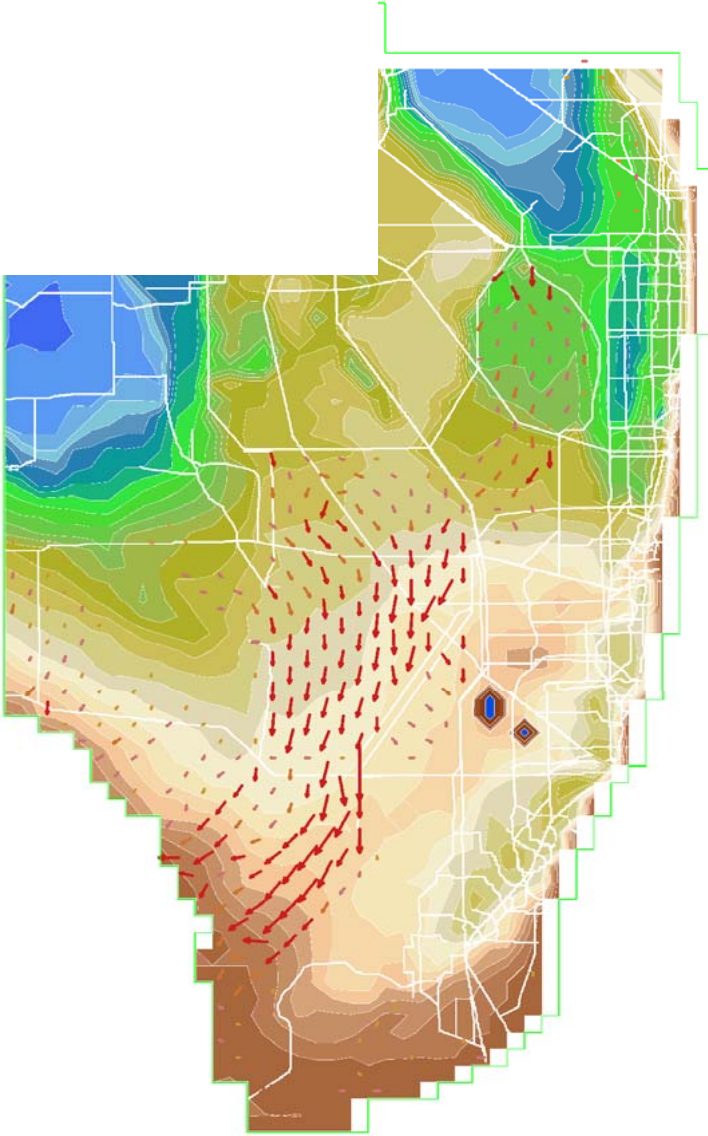


Elevations

Natural System Model grid

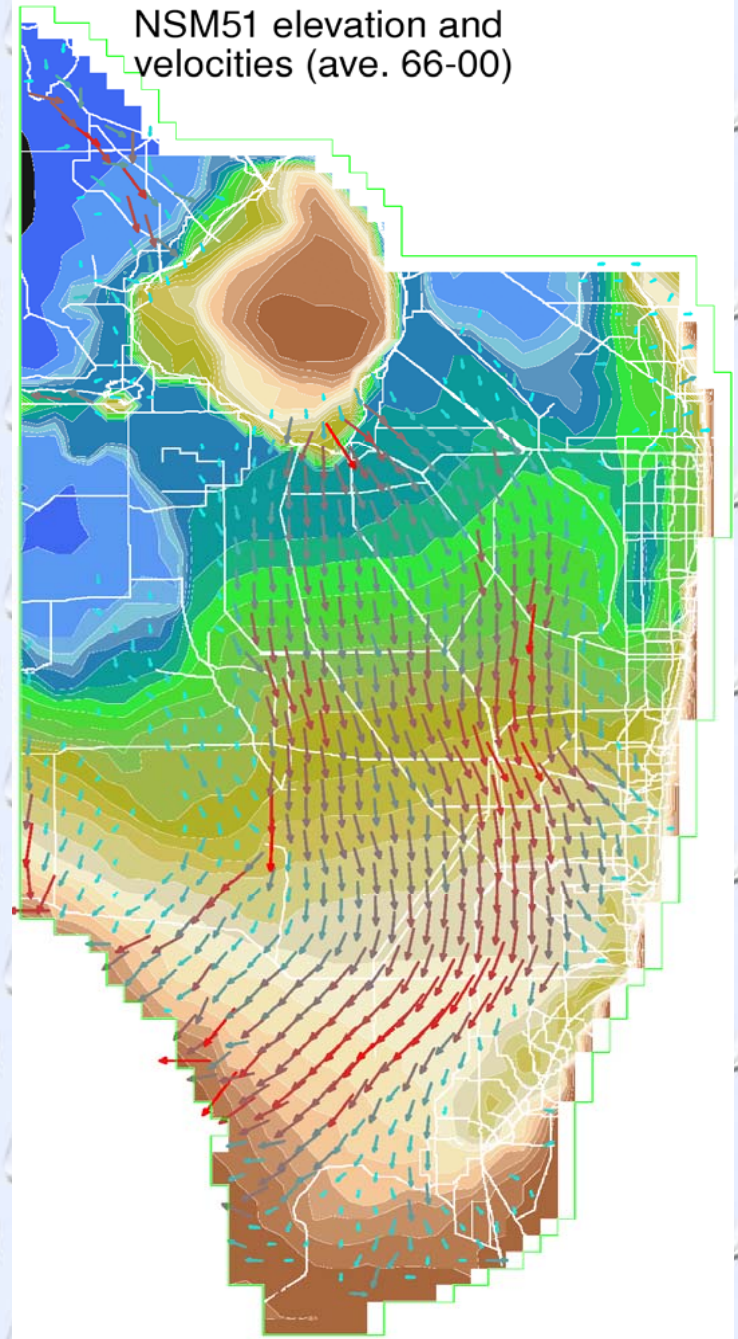
SFWMM-5

SFWMMbase83 elevation and
velocities (ave. 66-00)

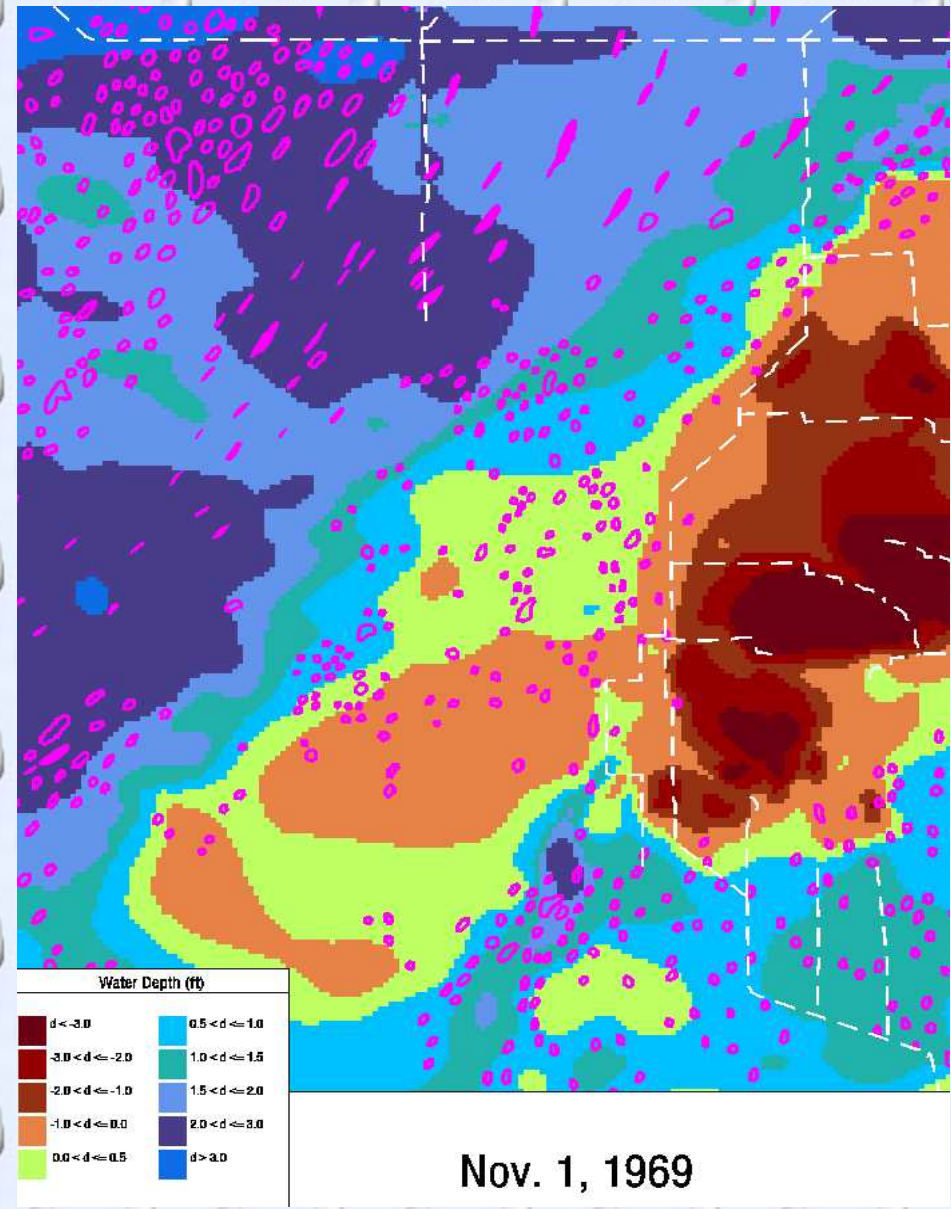
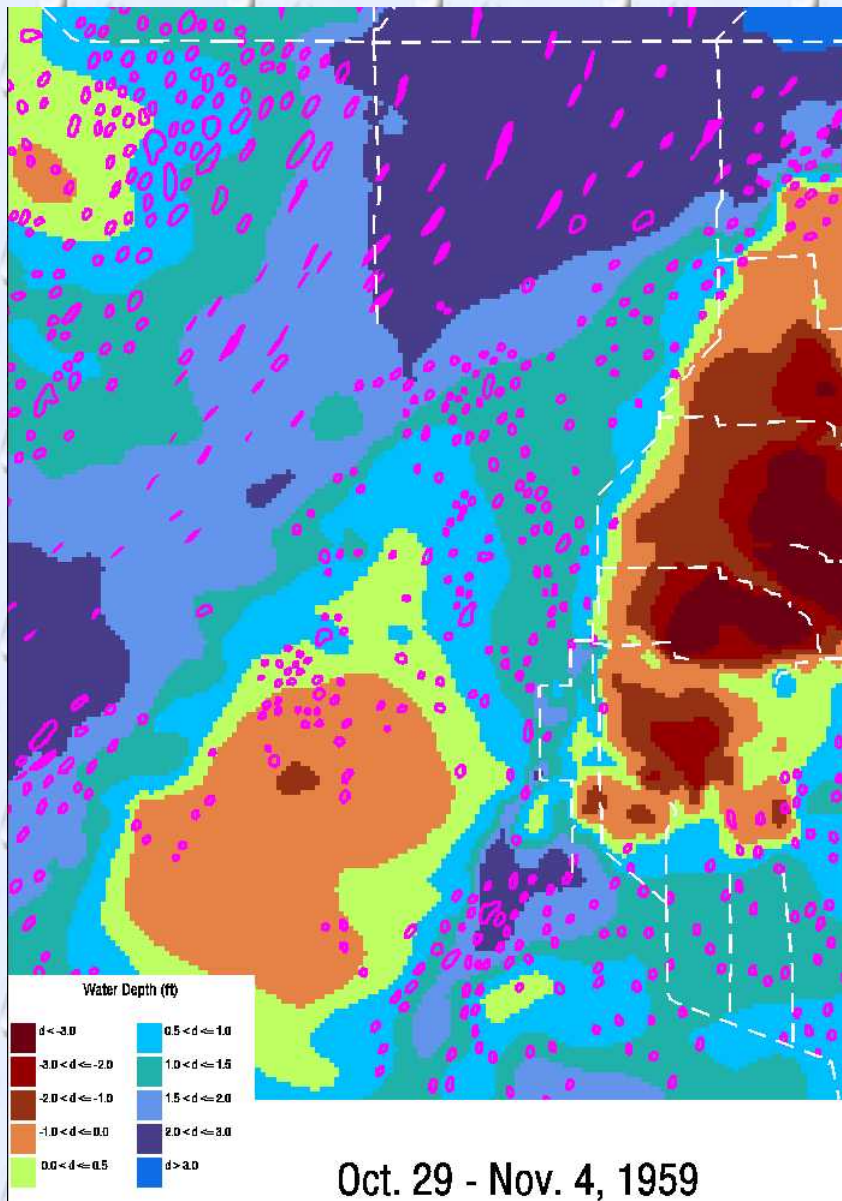


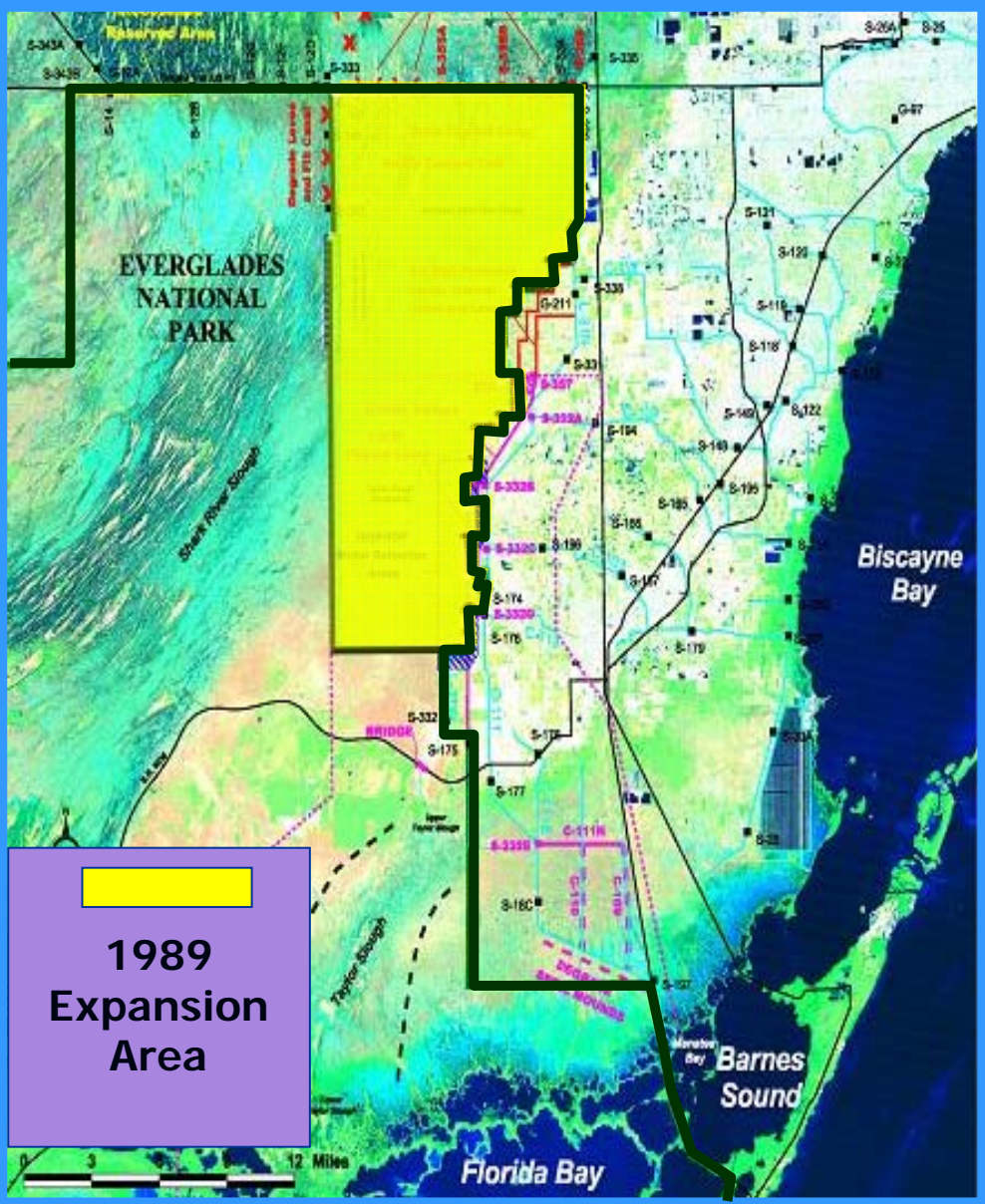
NSM-5

NSM51 elevation and
velocities (ave. 66-00)



Surface water depth contours from field data

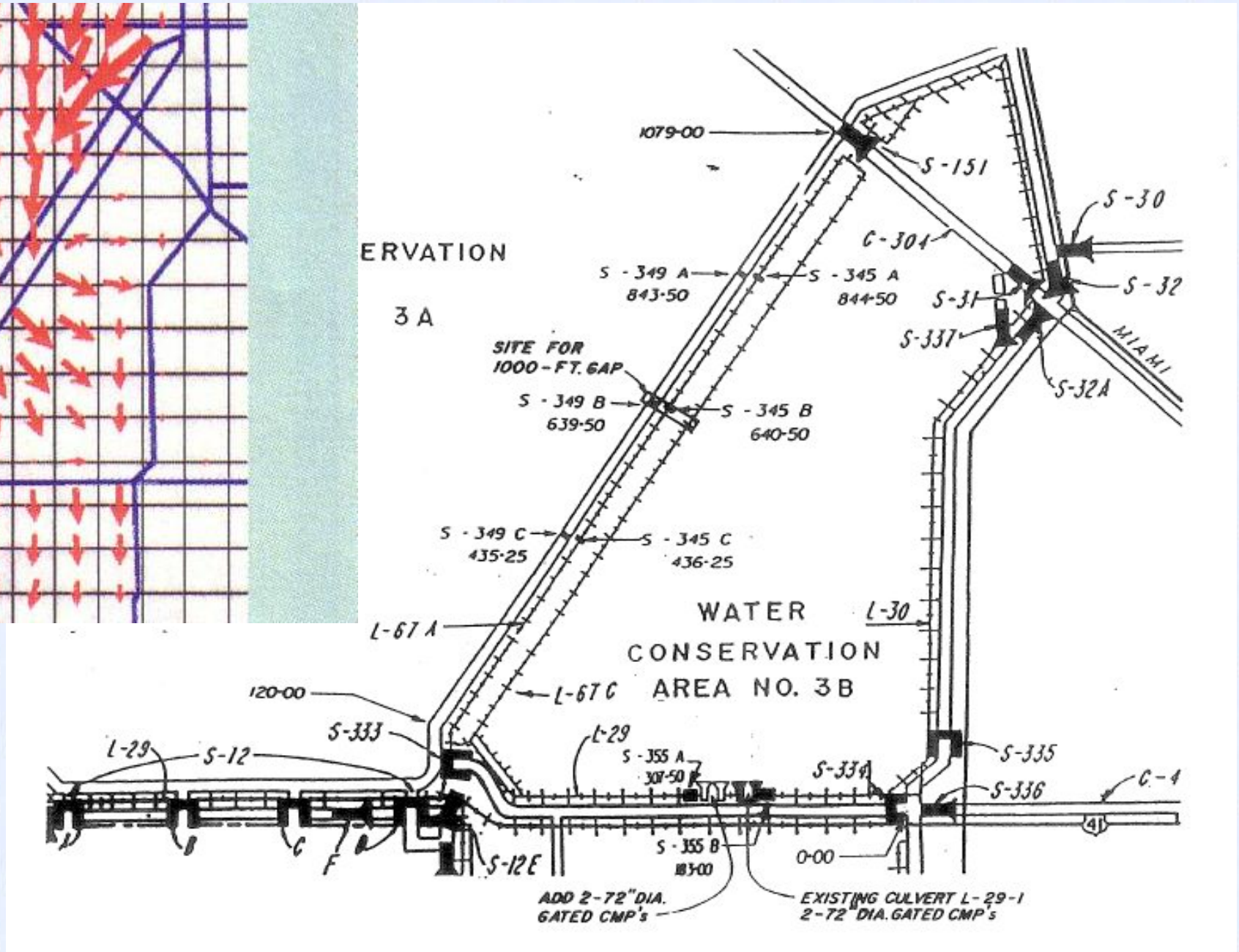
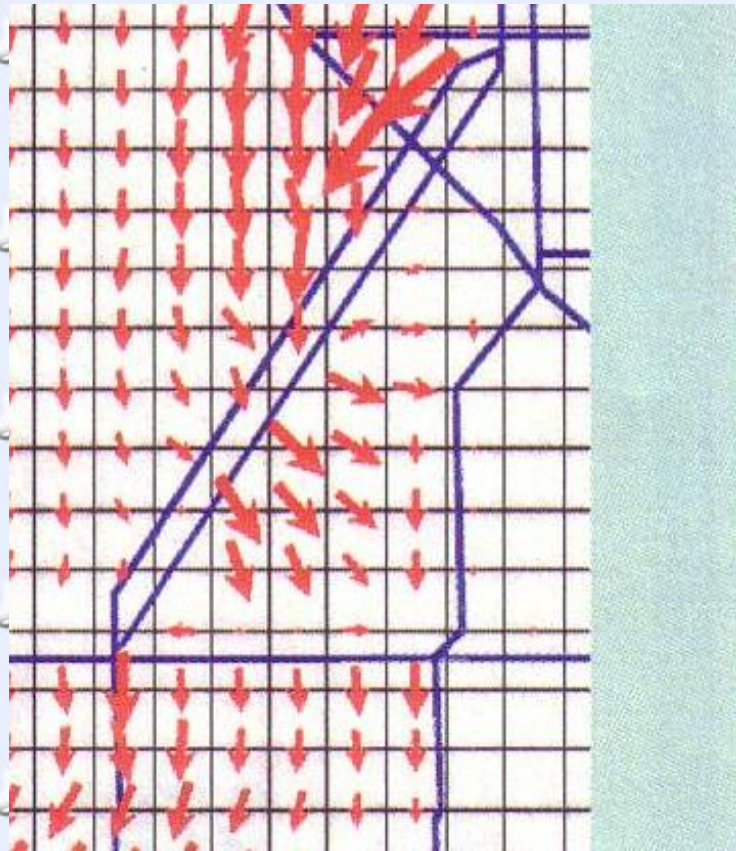




The Everglades National Park Protection and Expansion Act of 1989 (PL 101-229)

- Authorized the NPS to acquire 109,000 acres within Northeast Shark Slough.
- Authorized the Army Corps to make modifications “to improve water deliveries into the park and shall, to the extent practicable, take steps to restore the natural hydrologic conditions in the Park”.

Modified Water Deliveries Project



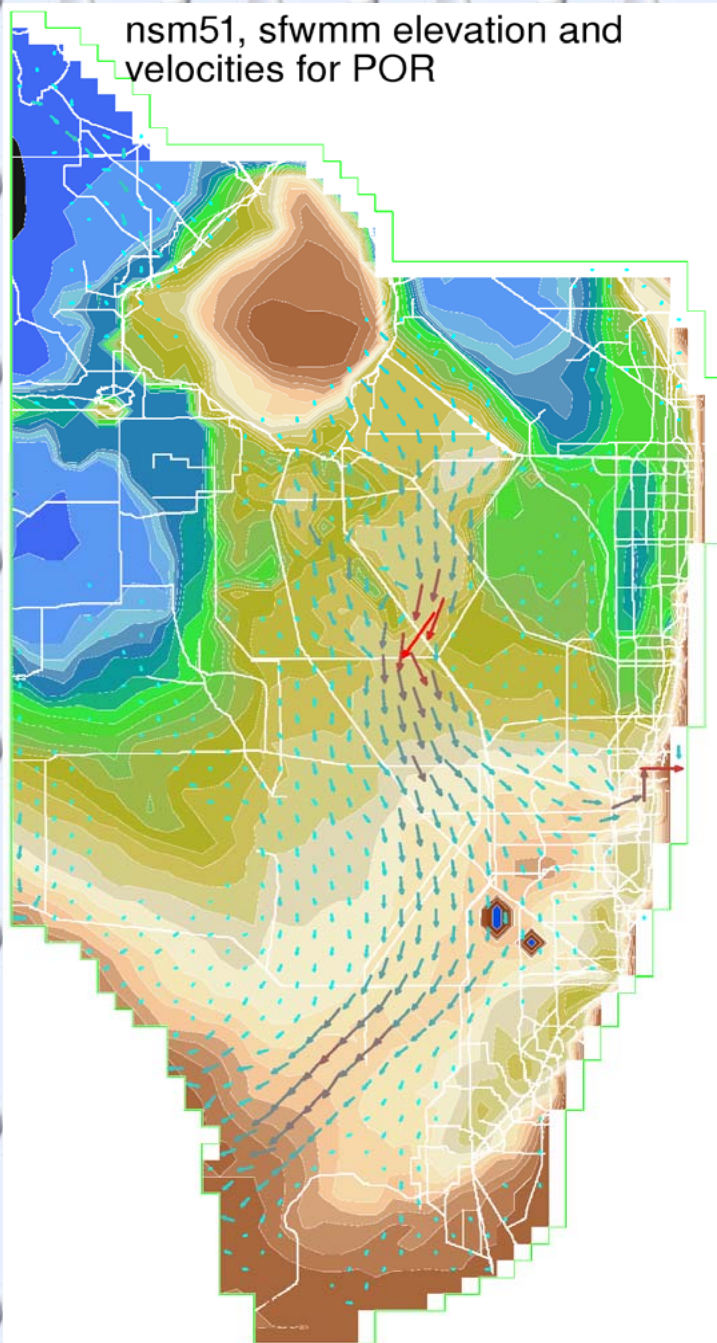
Gated Structures S-355A and S-355B



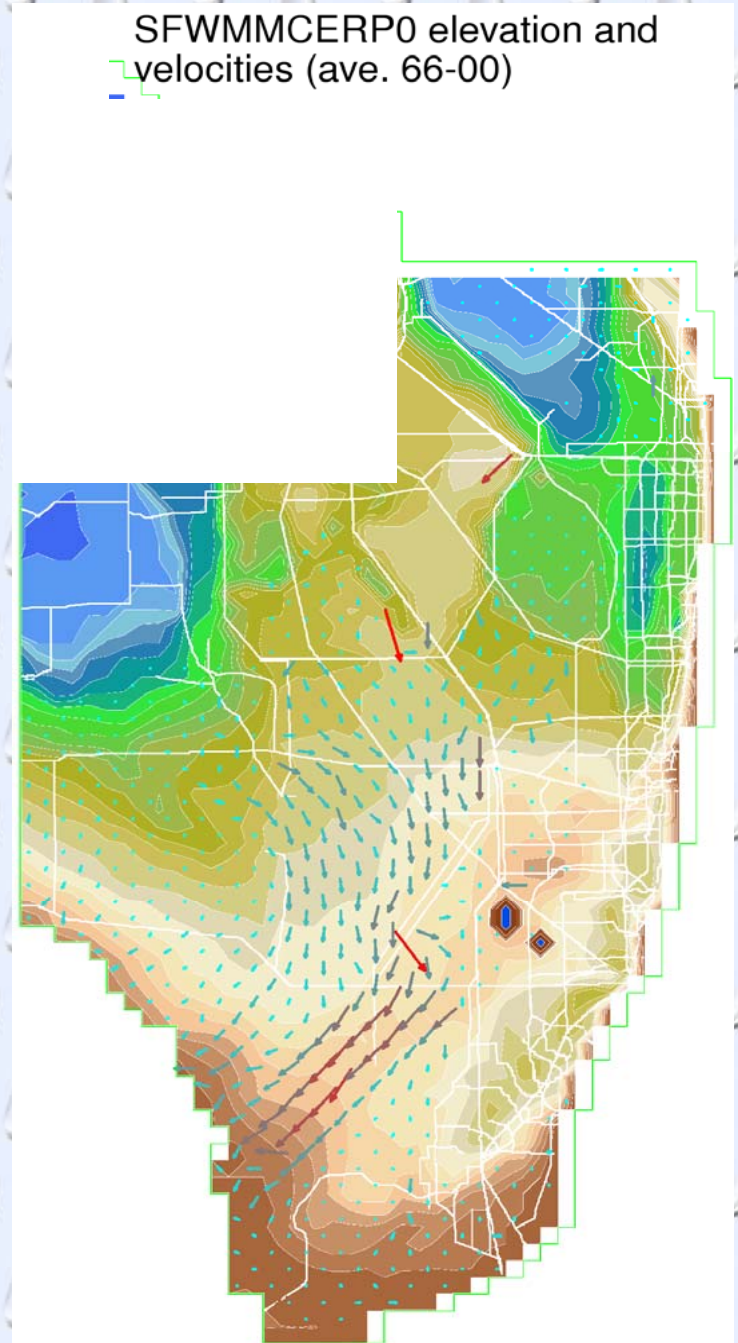
Pump Station S-356



NSM-5

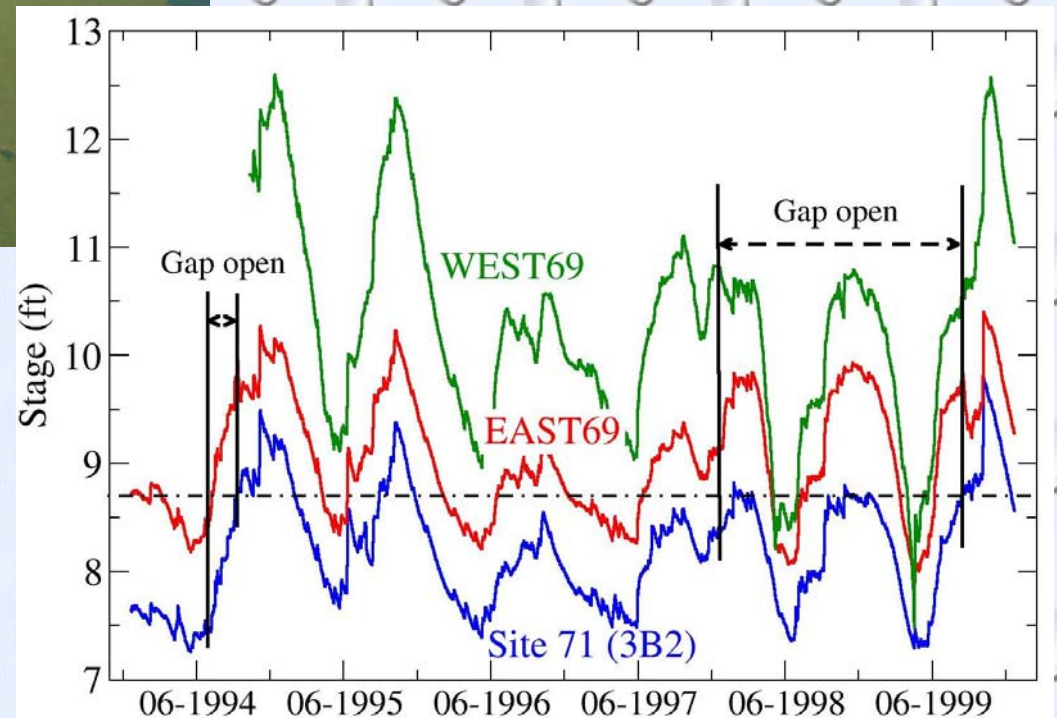
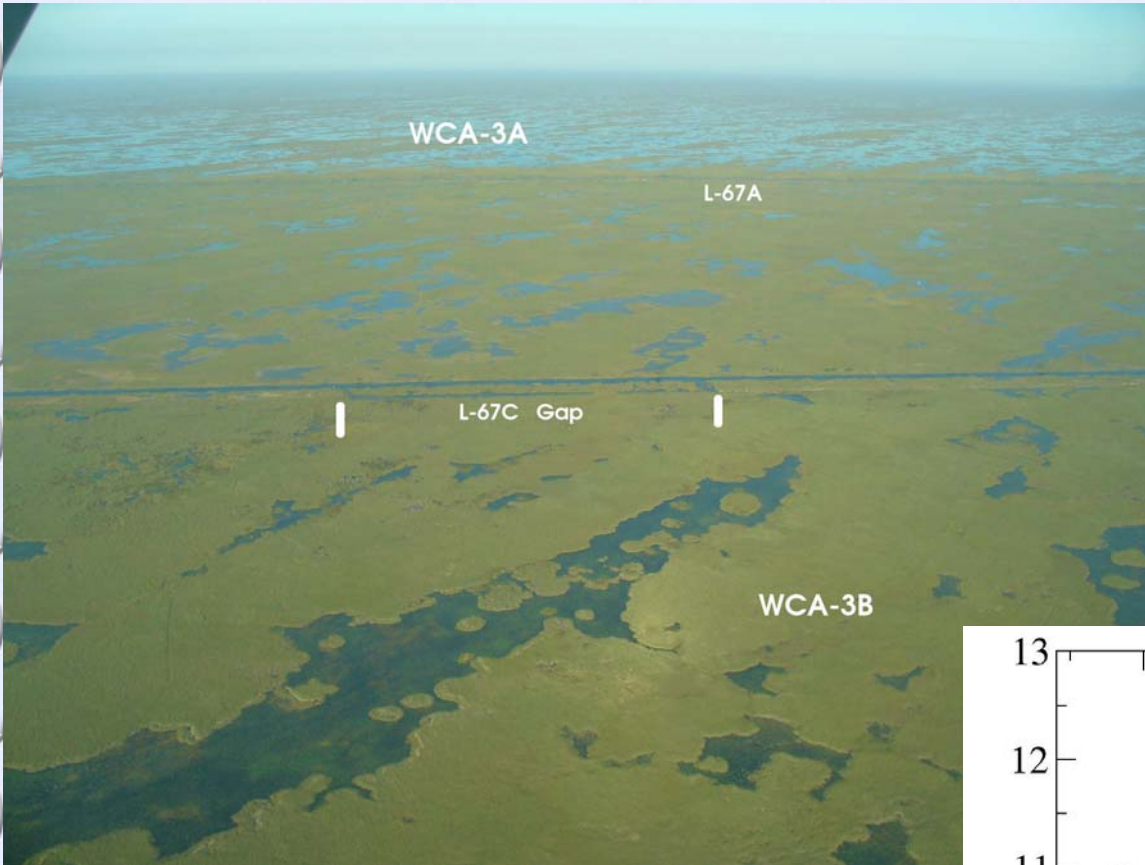


SFWMM-5 CERPO



Modified Water Deliveries Field Test

Gaps in L-67A and C



Adaptive Management

