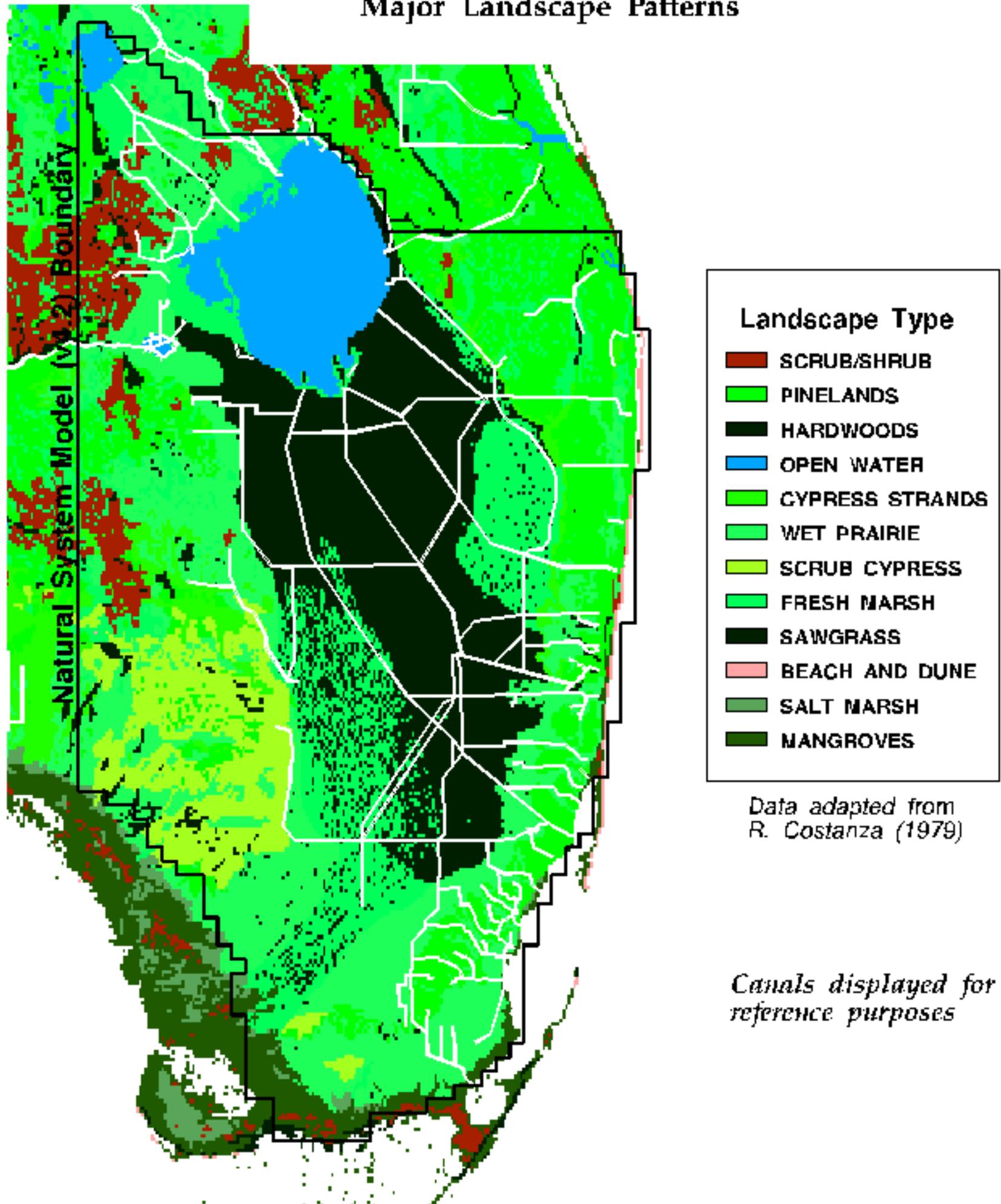


# Natural System Vegetation

## Major Landscape Patterns



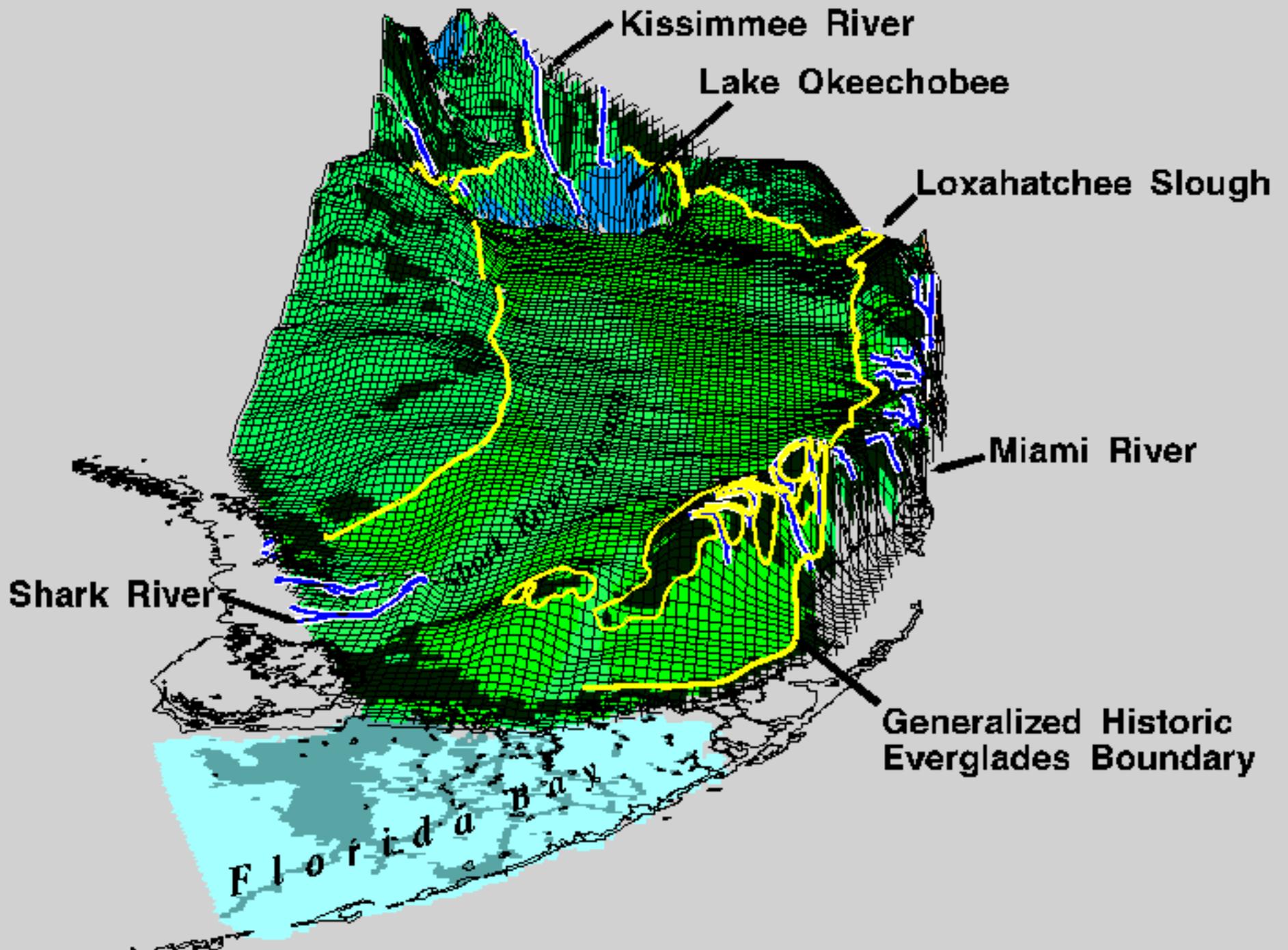
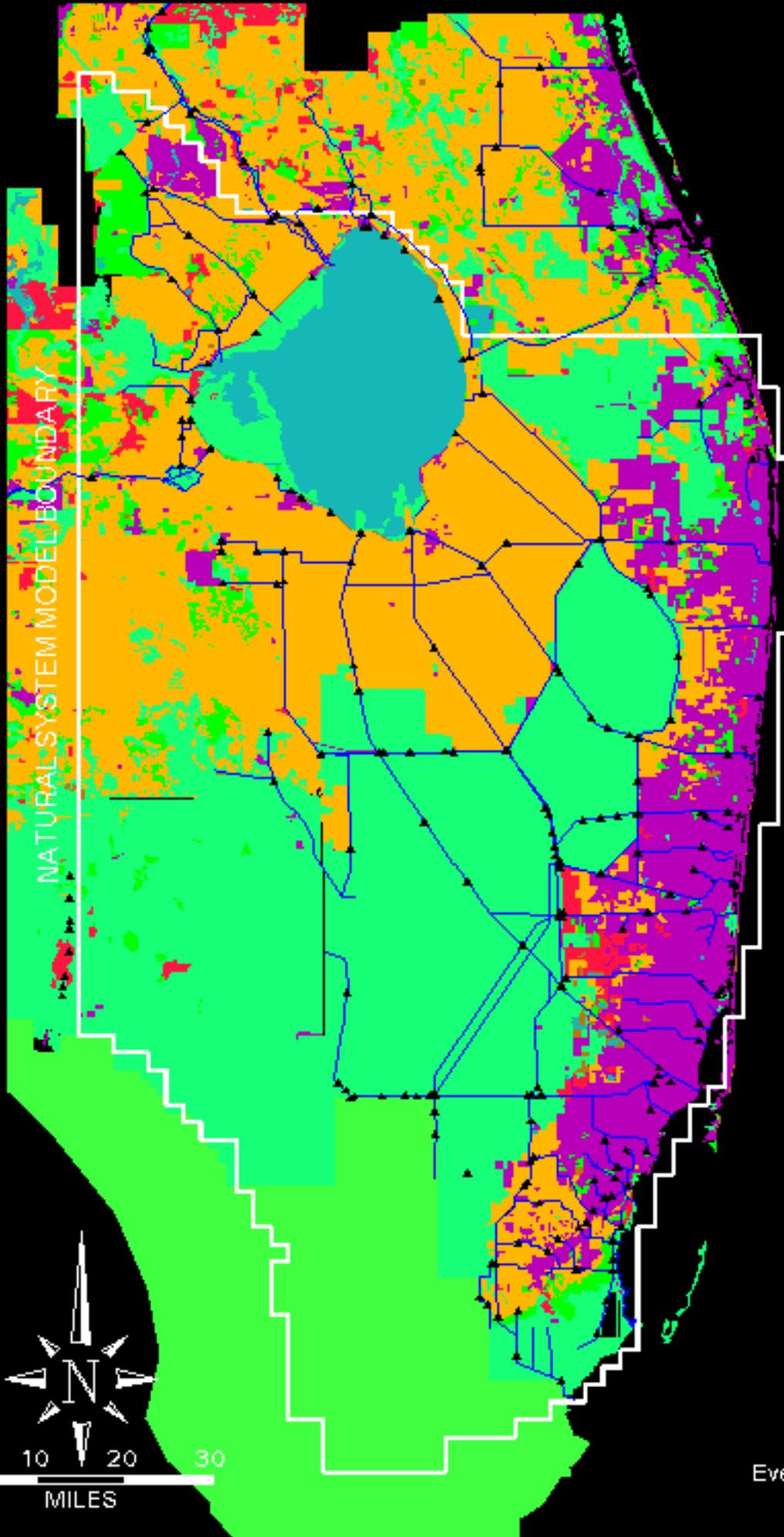


Table 4. Pre-drainage Rivers, Creeks and Transverse Glades.

Location	Name	Length (mi)	Width (ft)	Control Elev (NGVD)	Head Drop (ft)
Okeechobee Basin	Kissimmee River	9.6	250	18.0	2.0
	Fisheating Creek	14.0	500	18.0	2.0
	Caloosahatchee River	5.2	100	12.0	1.0
Northern Coastal Ridge	Lake Worth Creek	5.3	100	6.0	1.0
	North Fork Jupiter River	5.0	100	6.0	2.0
	Jupiter Narrows	5.5	100	6.0	2.0
	Jupiter River	10.5	800	5.0	2.0
Central Coastal Ridge	Hillsboro River	12.5	100	2.0	2.0
	Boca Raton Lagoon	9.2	100	5.0	0.0
	Boca Boat Pass	1.4	50	5.0	0.0
	Cypress Creek	5.1	50	3.0	2.0
	Bonnet Slough	5.7	100	3.0	0.0
	Middle River	9.5	100	3.0	1.0
	New River Sound	6.5	500	2.0	0.0
	New River	7.7	250	3.0	1.0
	Big Snake	6.2	100	2.5	1.0
	Arch Creek	3.5	100	2.0	2.0
	Little River	1.7	100	2.0	0.0
Southern Coastal Ridge	Miami River	3.8	100	2.0	2.0
	Snapper Creek	8.5	100	2.0	3.0
	Black Creek	11.9	100	2.0	3.0
	Glade "A"	6.2	100	4.95	0.0
	Glade "B"	7.3	100	5.27	0.0
	Glade "C"	8.7	100	7.62	0.0
	Glade "D"	5.4	100	5.6	0.0
Southwest ENP	Glade "E"	8.9	100	5.0	0.0
	Glade "F"	9.9	100	5.0	0.0
Southwest ENP	Broad River	3.1	100	0.5	0.0
	Shark River	10.1	100	0.5	0.0



# Current Landuse with Natural System Model Version 4.1 Grid Boundary



## LEGEND

- Water
- Rangeland
- Forested
- Wetlands
- Agriculture
- Urban
- Barren Land
- Everglades National Park
- SFWMD Structure
- SFWMD Canal/Levee





Table 6. Soil Infiltration Rates.

Predominate Soil(s)	General Location	Infiltration Rate (ft/day)
Torry Muck	Southeast rim of Lake Okeechobee	9 ft/day
sandy soils	Caloosahatchee Fisheating Creek	26 ft/day
Perrine marl	Southeast Dade Co.	12 ft/day
Pahokee Muck	Everglades Agricultural Area	26 ft/day
Hallendale & Margate fine sand	between WCA's & coastal ridge, Hendry & Glades Co.	26 ft/day
Lauderhill Muck	eastern WCA3A, WCA3B	26 ft/day
Myakka, Basinger Immokalee	Hendry & Glades Co., & eastern Palm Beach Co.	26 ft/day
Shallow perrine marls	Southwest Dade Co. & area west of ENP & WCA3A	12 ft/day
Rockdale fine sandy loam	eastern Dade Co.	12 ft/day
sandy soils	coastal ridge	26 ft/day
Okeechobee & Okeelanta Muck	WCA1, western WCA3A & Shark River Slough	26 ft/day
Pennsuco marl, Terra Ceia	southern Dade Co.	12 ft/day
Rockland, cypress, marsh	central Dade & Collier Co.	12 ft/day

# Natural System Model Elevations

## Land Surface c.1900

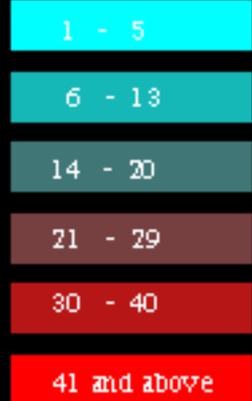
Version 4.2



1994

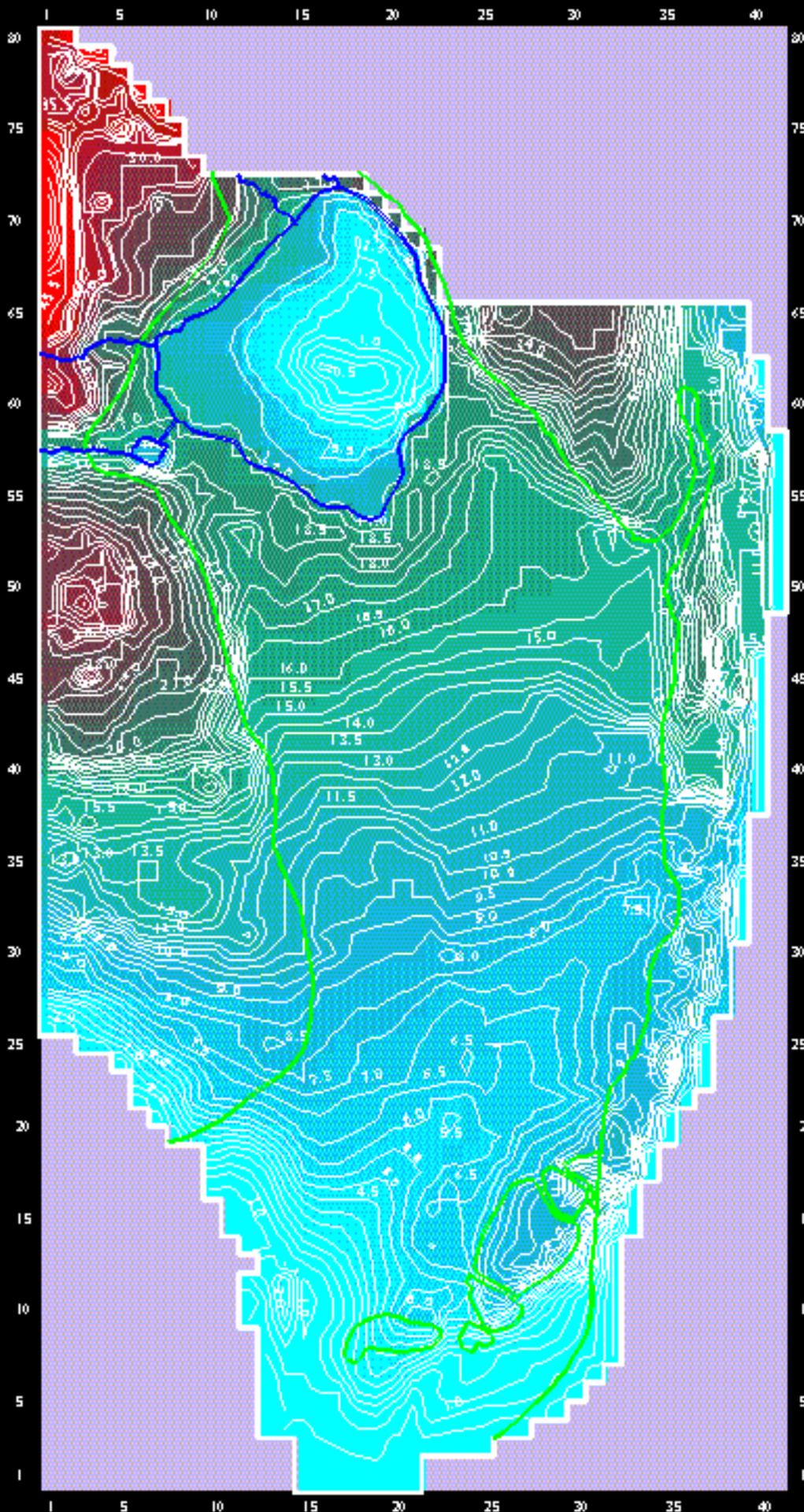
Department of Research  
Everglades Systems Research Division

### Elevation MSL (ft.)



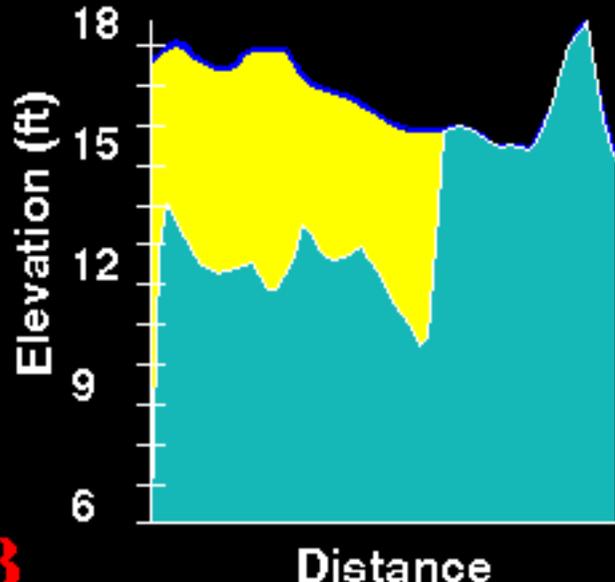
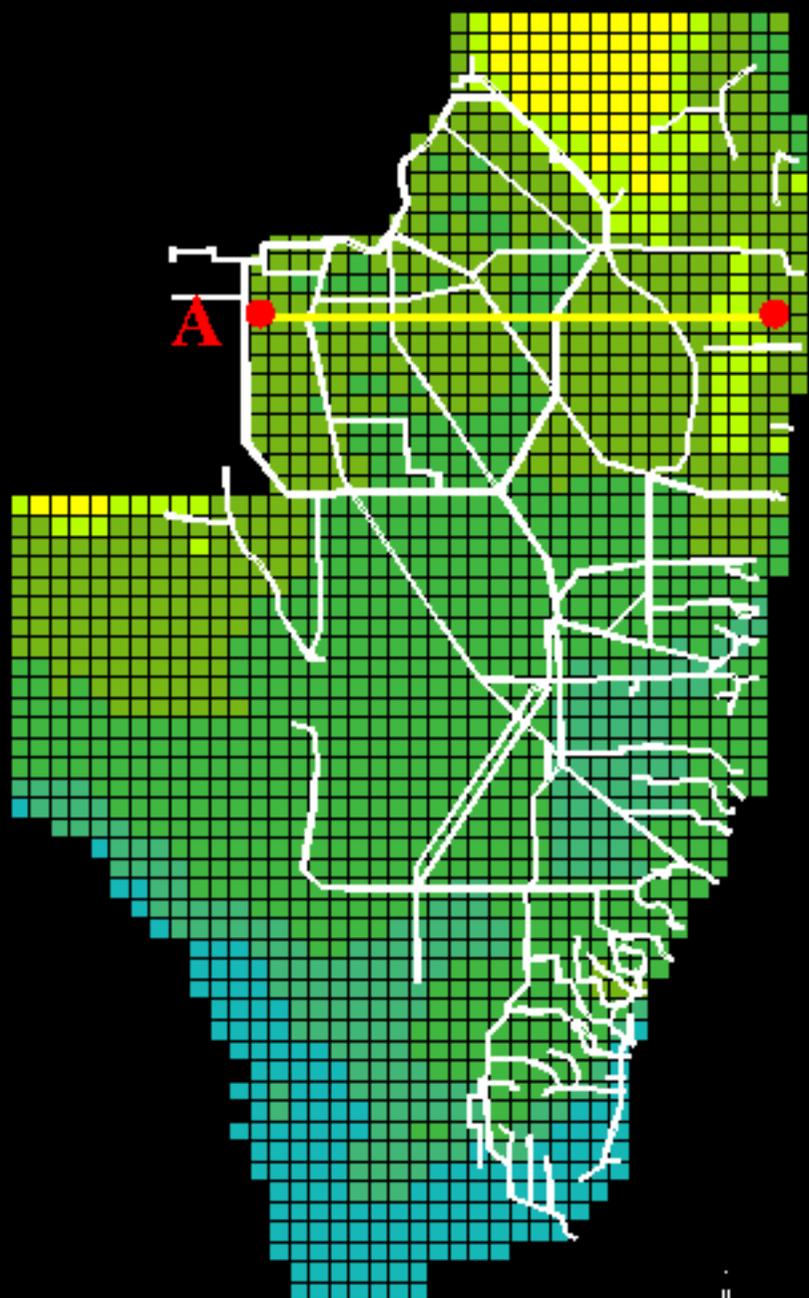
NSM Boundary

Generalized Boundary of  
Historic Everglades c.1900



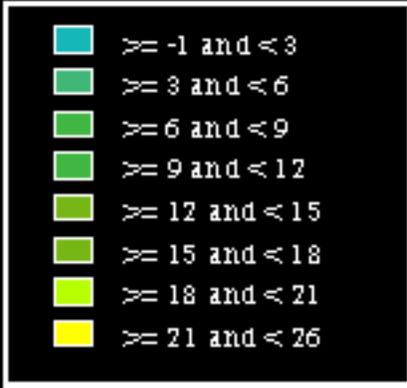
*NOTE: Selected contours have been removed for display purposes*

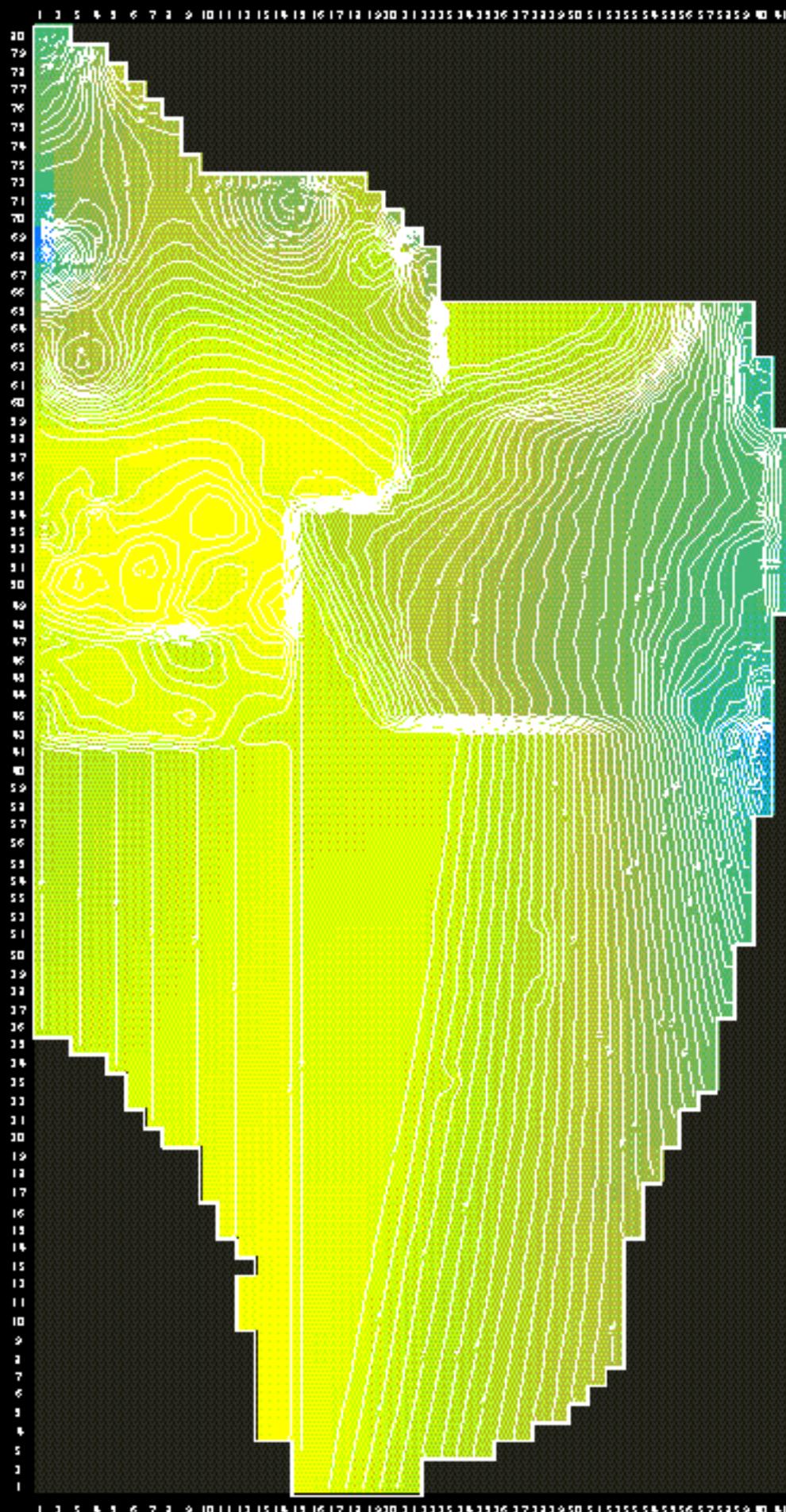
# SFWMM 2.4 Topography



1995  
ERID/SHMD

## Land Elevation (feet, NGVD)



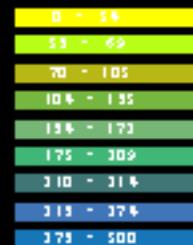


# Natural System Model Aquifer Depths

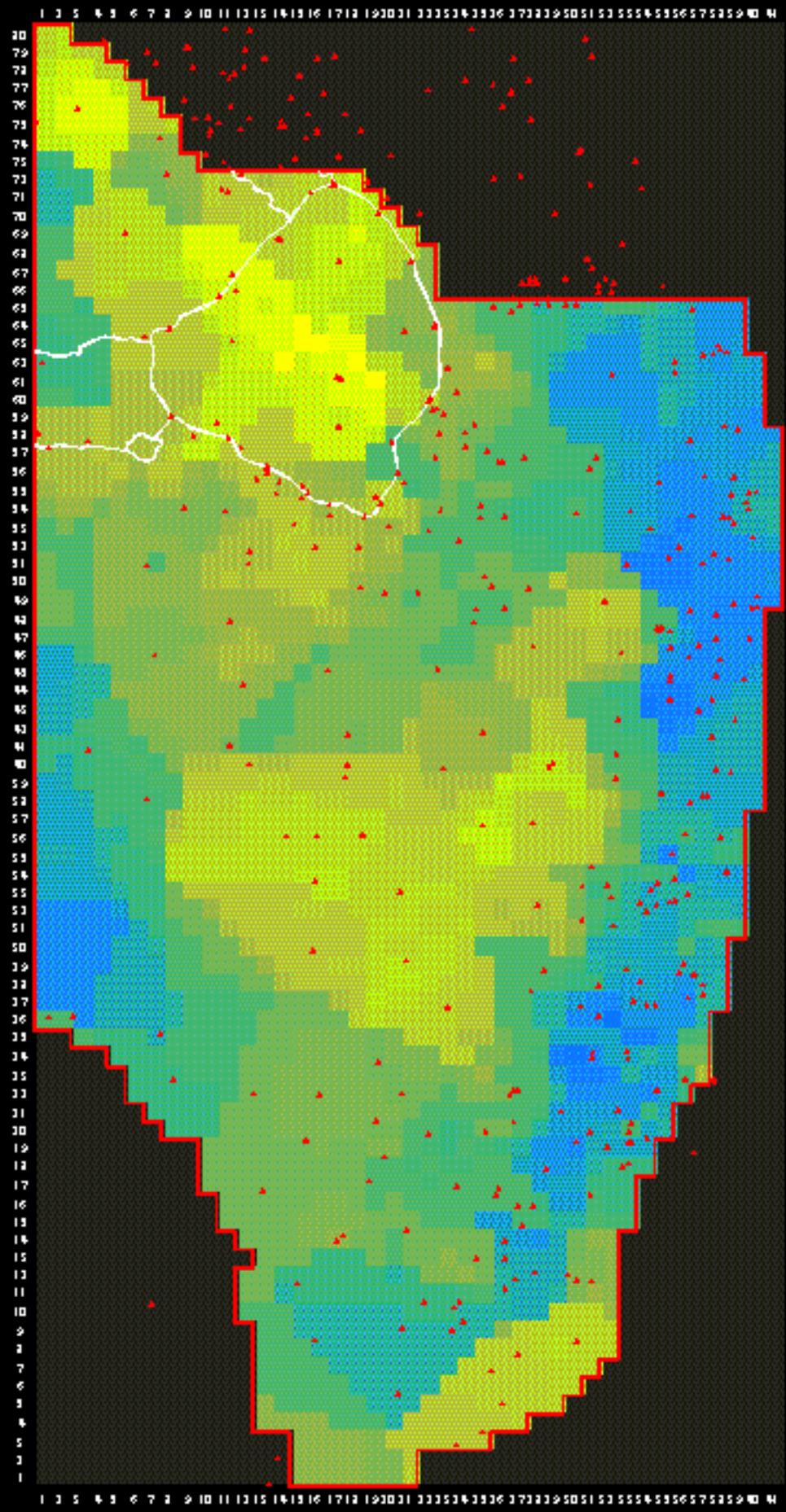
Contours represent Mean Sea Level elevations at top of confining layer.



### Depth (ft.)



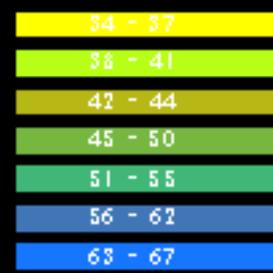
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Everglades Systems Research Division  
1994



Natural System Model  
Version 4.1  
Average Annual  
**Rainfall**



**Accumulation  
(Inches)**

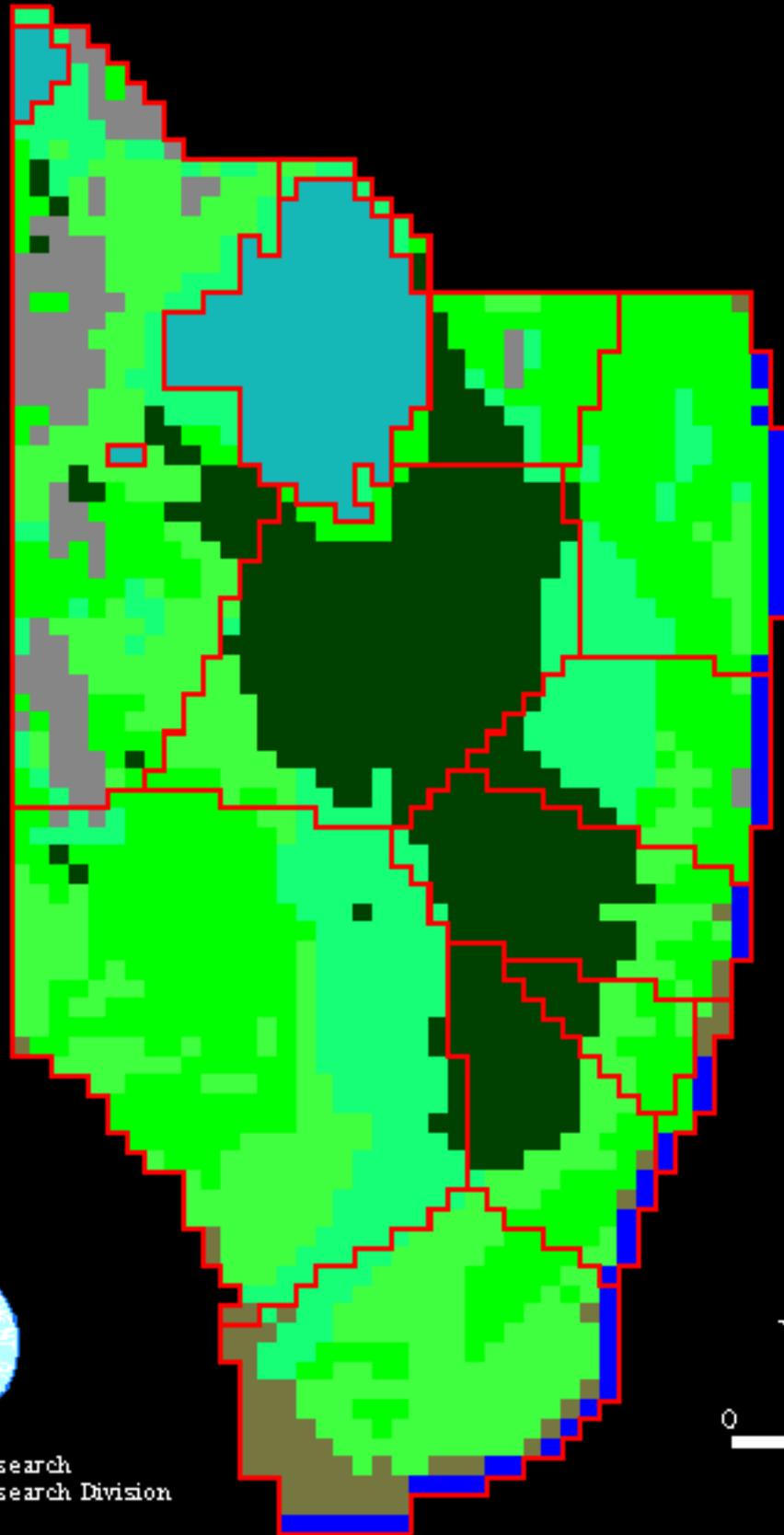


-  Rainfall data collection stations
-  NSM boundary



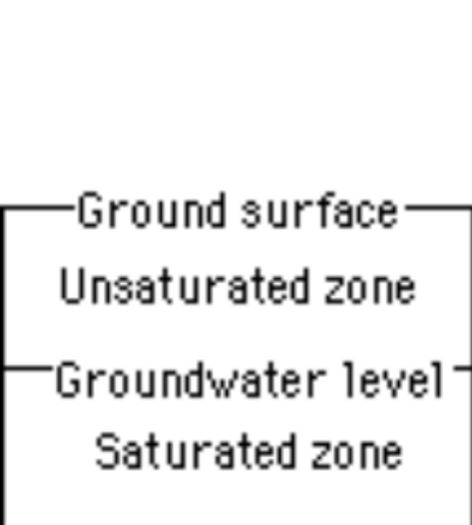
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1994

# Natural System Model Version 4.1 Vegetation and ET Basins

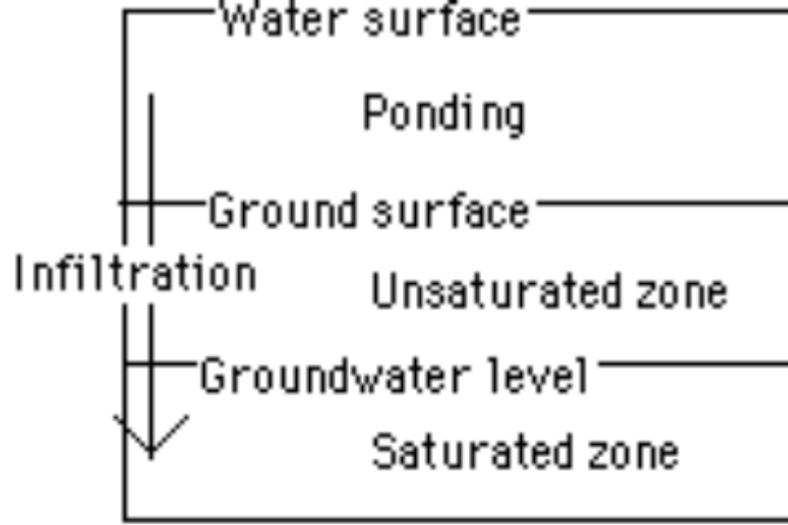


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Everglades Systems Research Division  
1994

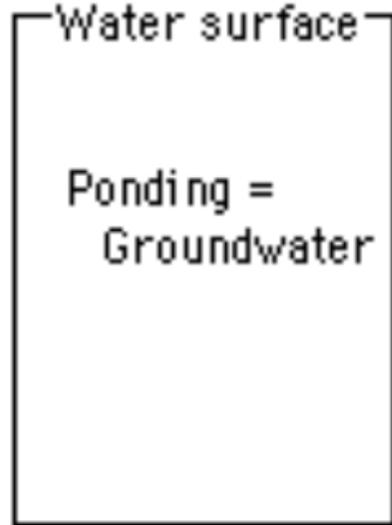




a) No ponding with unsaturated zone



b) Ponding with unsaturated zone



c) Ponding with no unsaturated zone

$$Q_{\text{infiltr}} = \text{Min}(\text{water available to infiltrate, available unsaturated soil storage, potential infiltration})$$

Parameters: Infiltration Rate ("Soil Cover" Basin)  
Soil Storage Coefficient ("Soil Cover" Basin)

