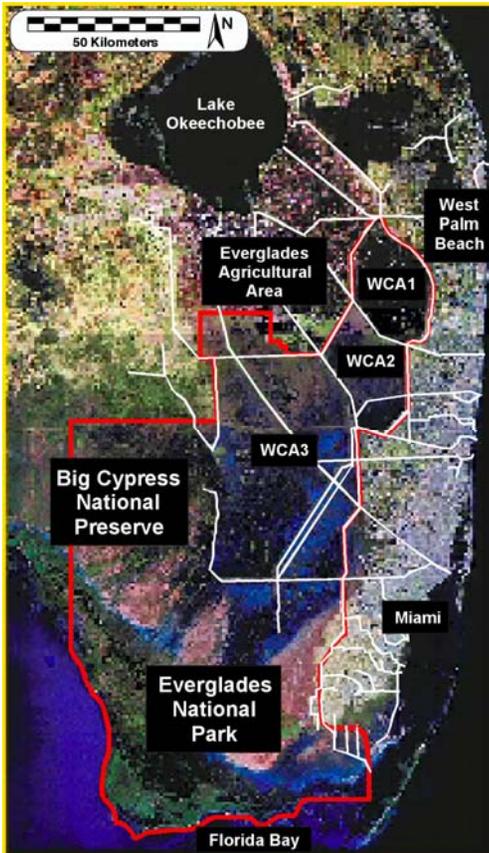


Model Structure of the Everglades Landscape Model

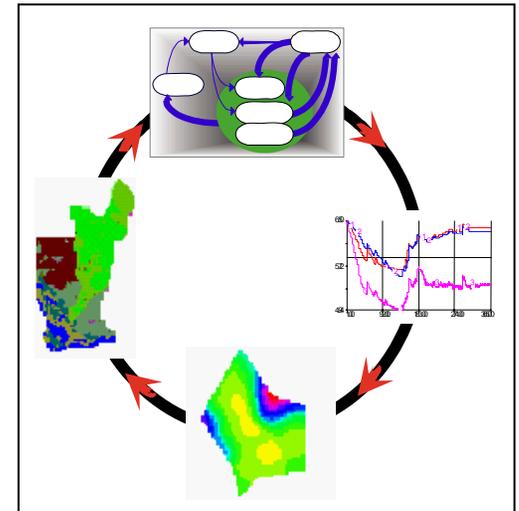


Model Application Support Unit

*Hydrologic & Environmental
Systems Modeling Department*

*South Florida
Water Management District*

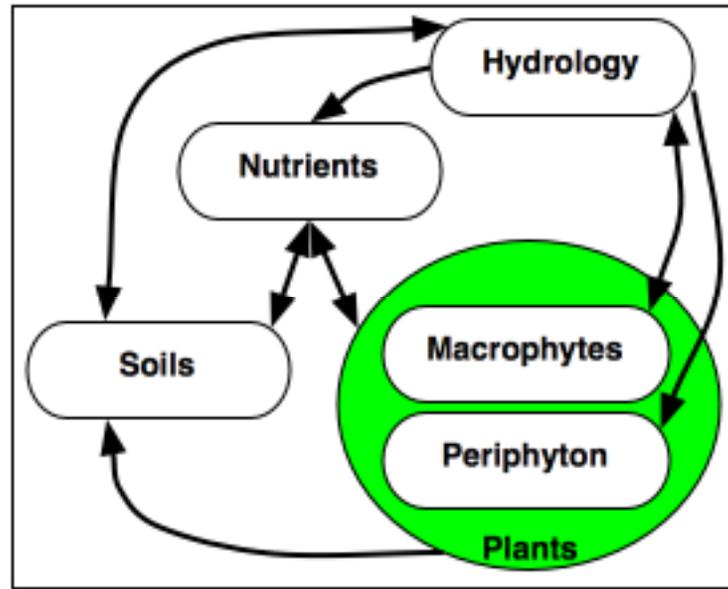
*Independent Peer Review
August 1-2, 2006*



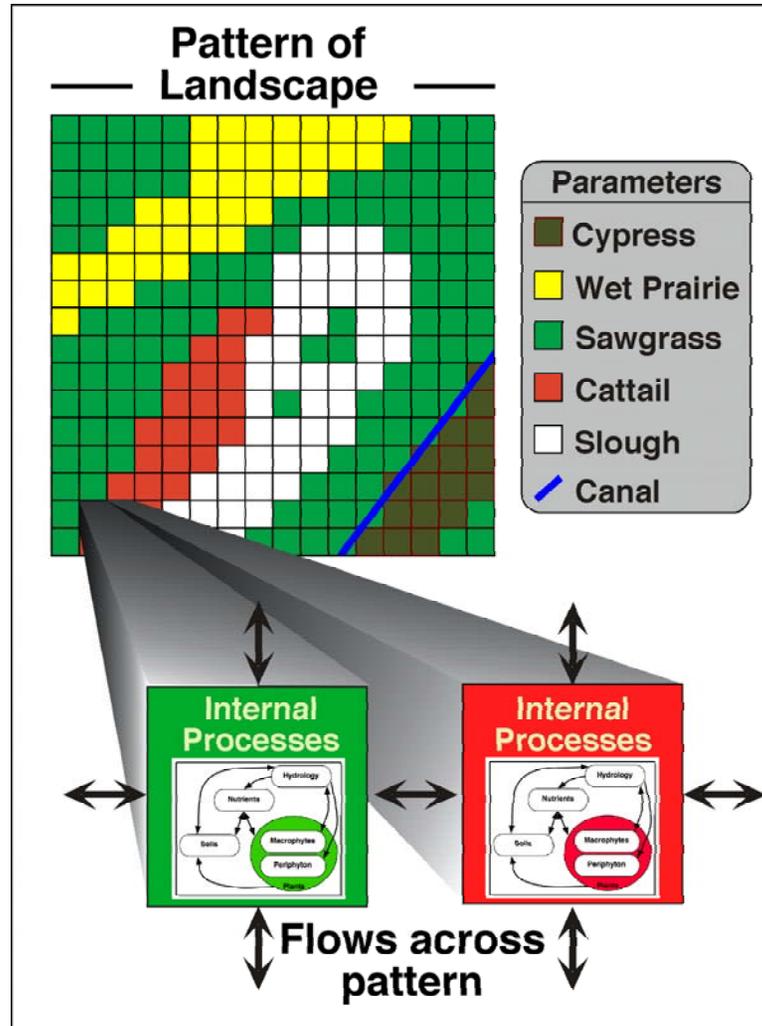
Presentation:

1. **Conceptual model**
2. Source code
3. Algorithms

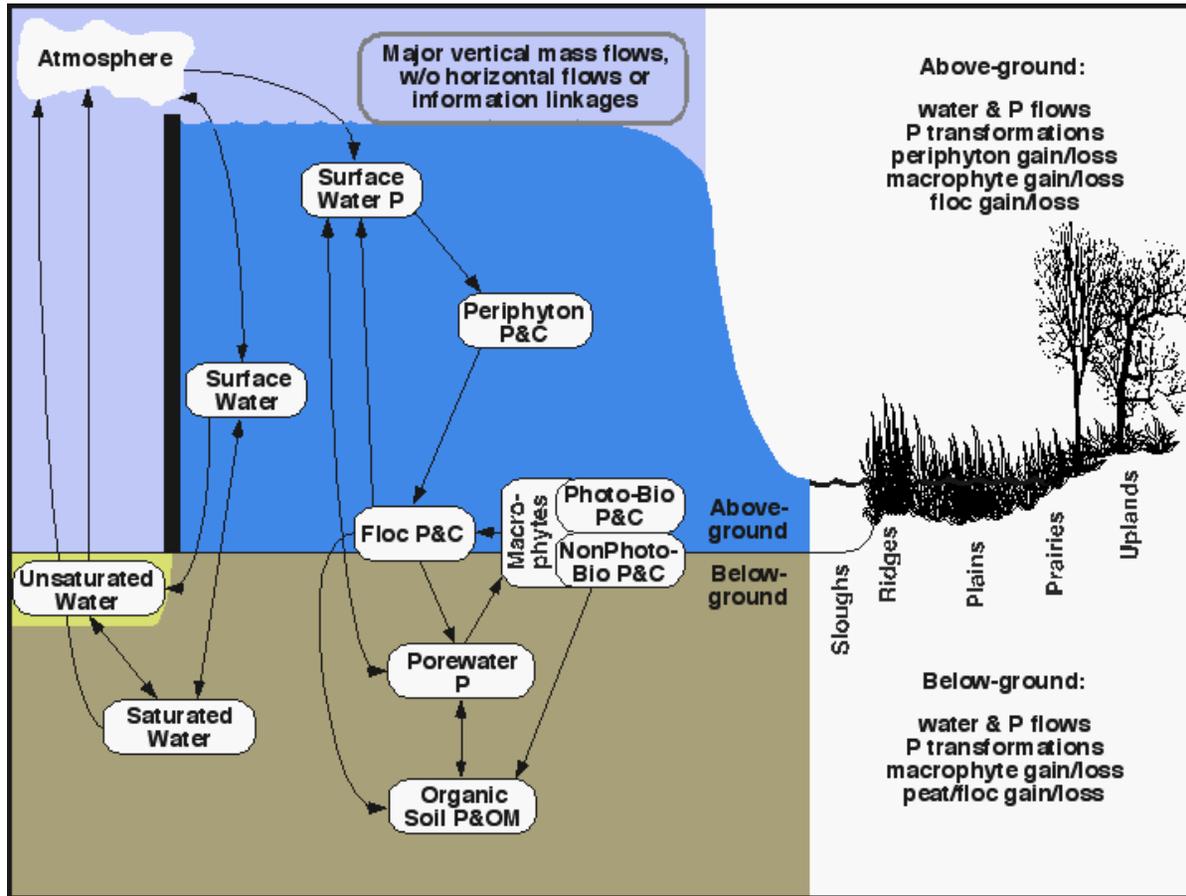
Interactions



Spatial



State Variables



Presentation:

1. Conceptual model
2. Source code
3. Algorithms

Hyperlinked source code

The screenshot shows a Mozilla Firefox browser window with the address bar displaying `http://www.sfwmd.gov/org/wrp/elm/develop/doxy/index.html`. The page title is "ELM source code - Mozilla Firefox". The left sidebar contains a navigation menu for "ELM source code" with links to "Main page", "File List", "Data Structures", "Data Fields", "Directories", and "Globals".

The main content area displays the following information:

- Text: "Here is the call graph for this function:"
- Diagram: A call graph showing a box labeled "FluxChannel" with three arrows pointing to boxes labeled "f_Ground", "f_Manning", and "WriteMsg".
- Code block:

```
float f_Manning ( float delta,
                 float Water,
                 float SW_coef
                 )
```
- Description: "Surface water exchange between cell and canal."
- Parameters:
 - delta*: Head difference between cell and canal (m)
 - Water*: Hydraulic radius (m)
 - SW_coef*: Aggregated flow coefficient (m^{0.5} * sec)/m^(1/3)
- Returns: m³
- Definition at line 2609 of file `WatMgmt.c`.
- References `Abs`, `GP_mannDepthPow`, and `sgn`.
- Referenced by `FluxChannel()`.
- Code block showing the implementation:

```
02610 {     float a_delta;
02611
02612     a_delta = Abs (delta);
02613     return ( sgn( delta ) * SW_coef * pow(Water, GP_mannDepthPow) * sqrt(a_delta) * canstep);
02614
02615 }
```

Presentation:

1. Conceptual model
2. Source code
3. Algorithms

Hyperlinked algorithms

(go to hyper-linked pages)

Main program controller sequence of ELM

