

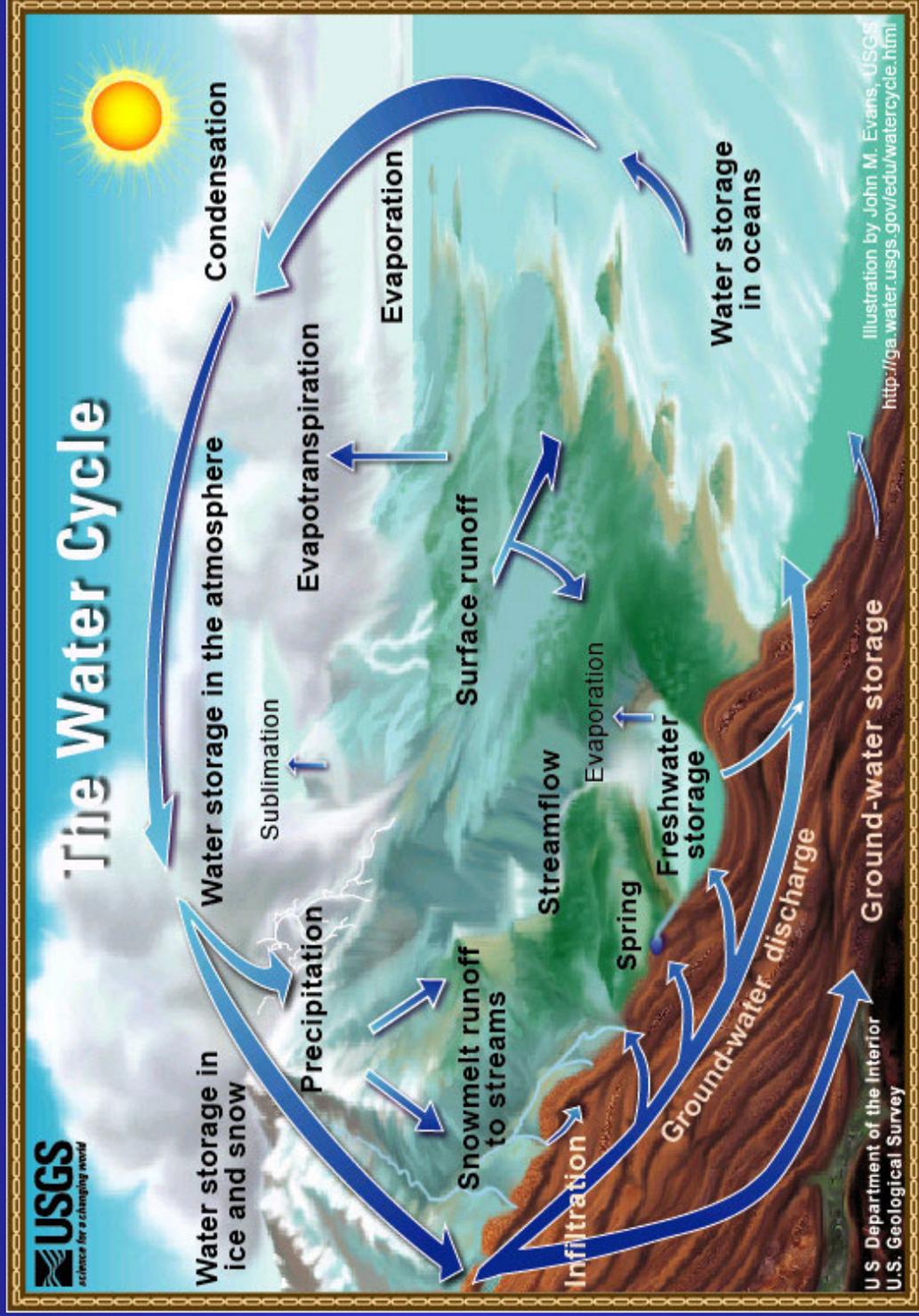
# Ground Water Basics

## Concepts and Terms

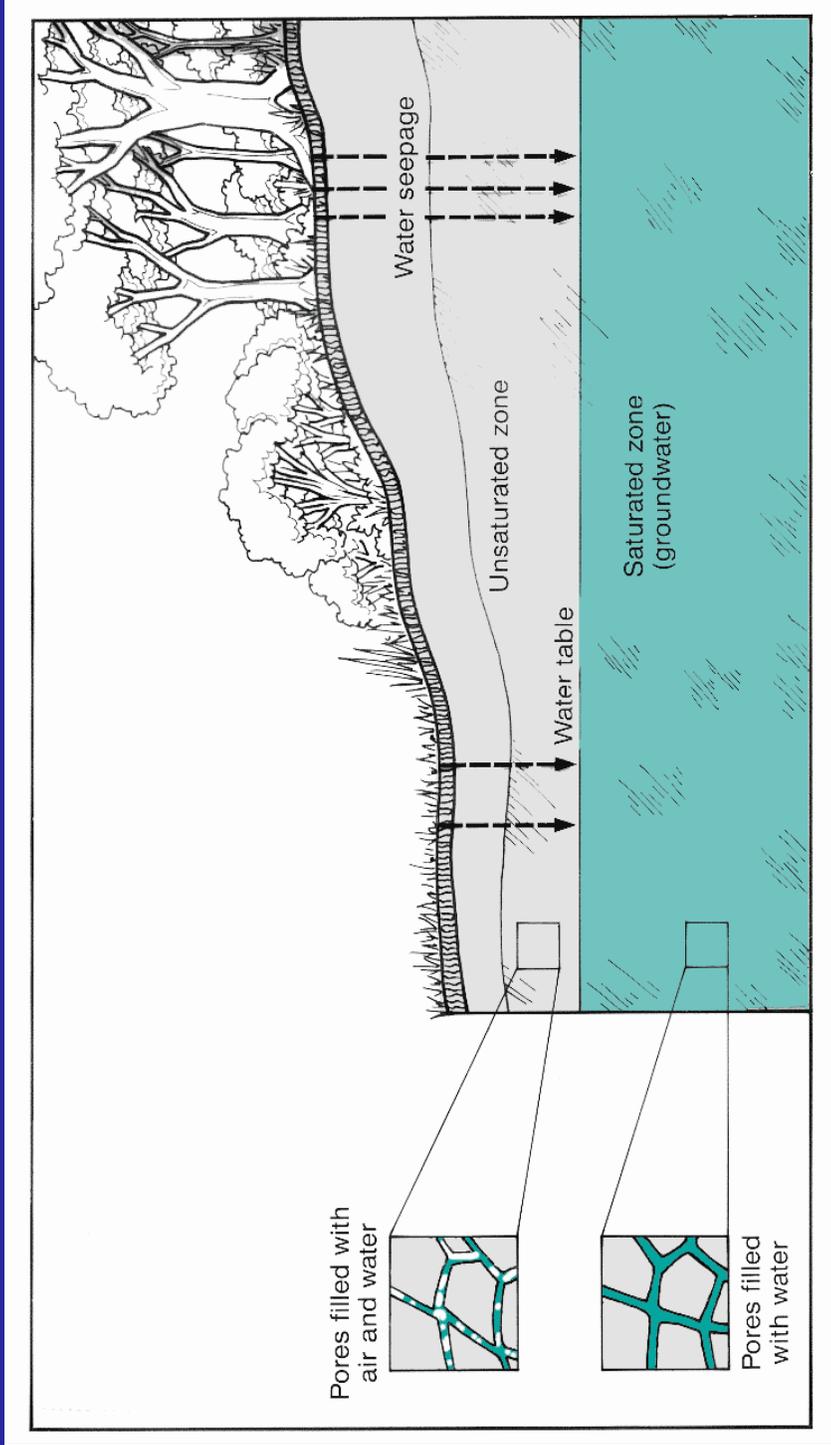
Jim Palmer  
Interstate Commission on the Potomac  
River Basin



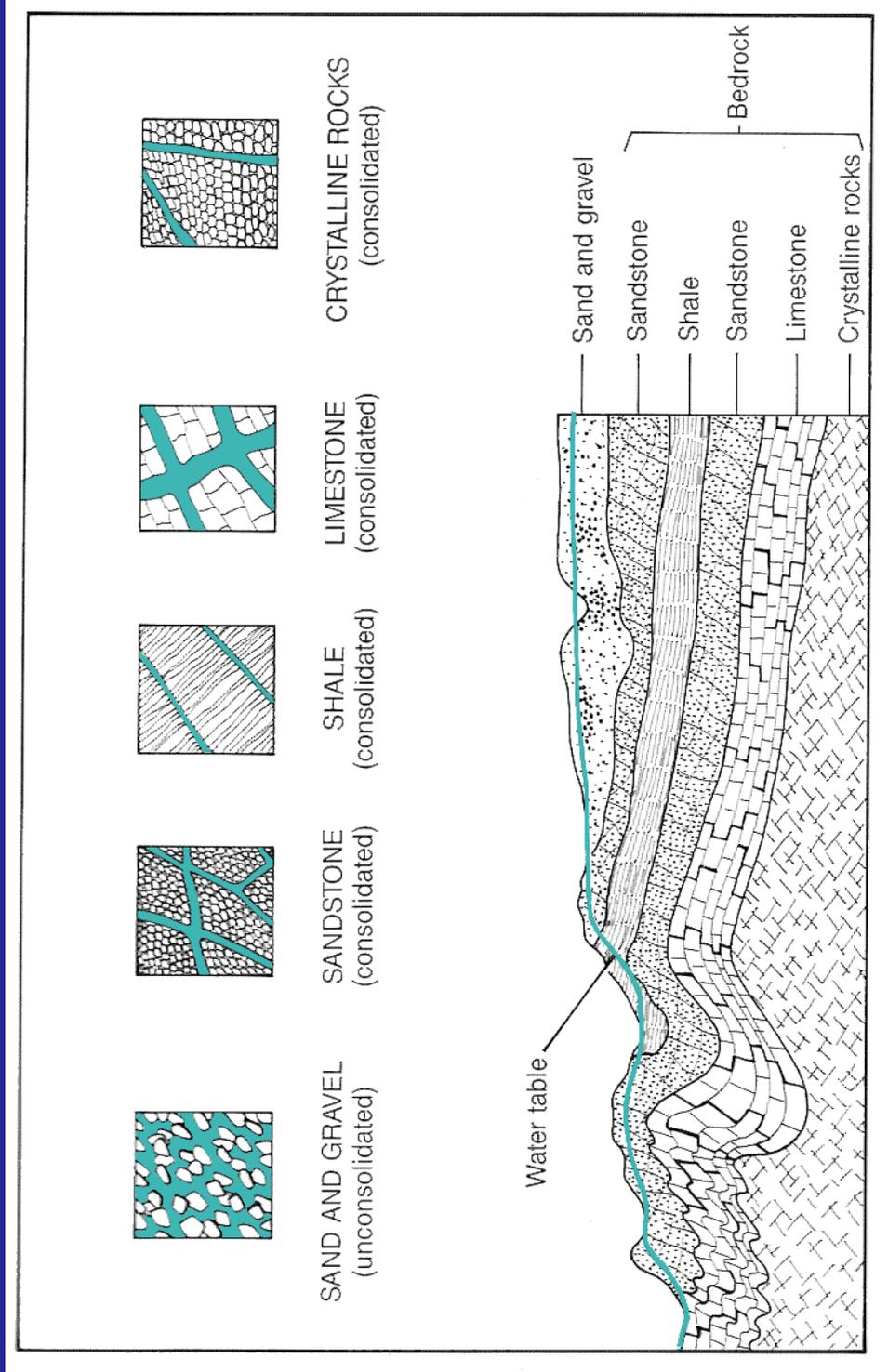
# The Hydrologic Cycle



# Infiltration



# Where is it stored?

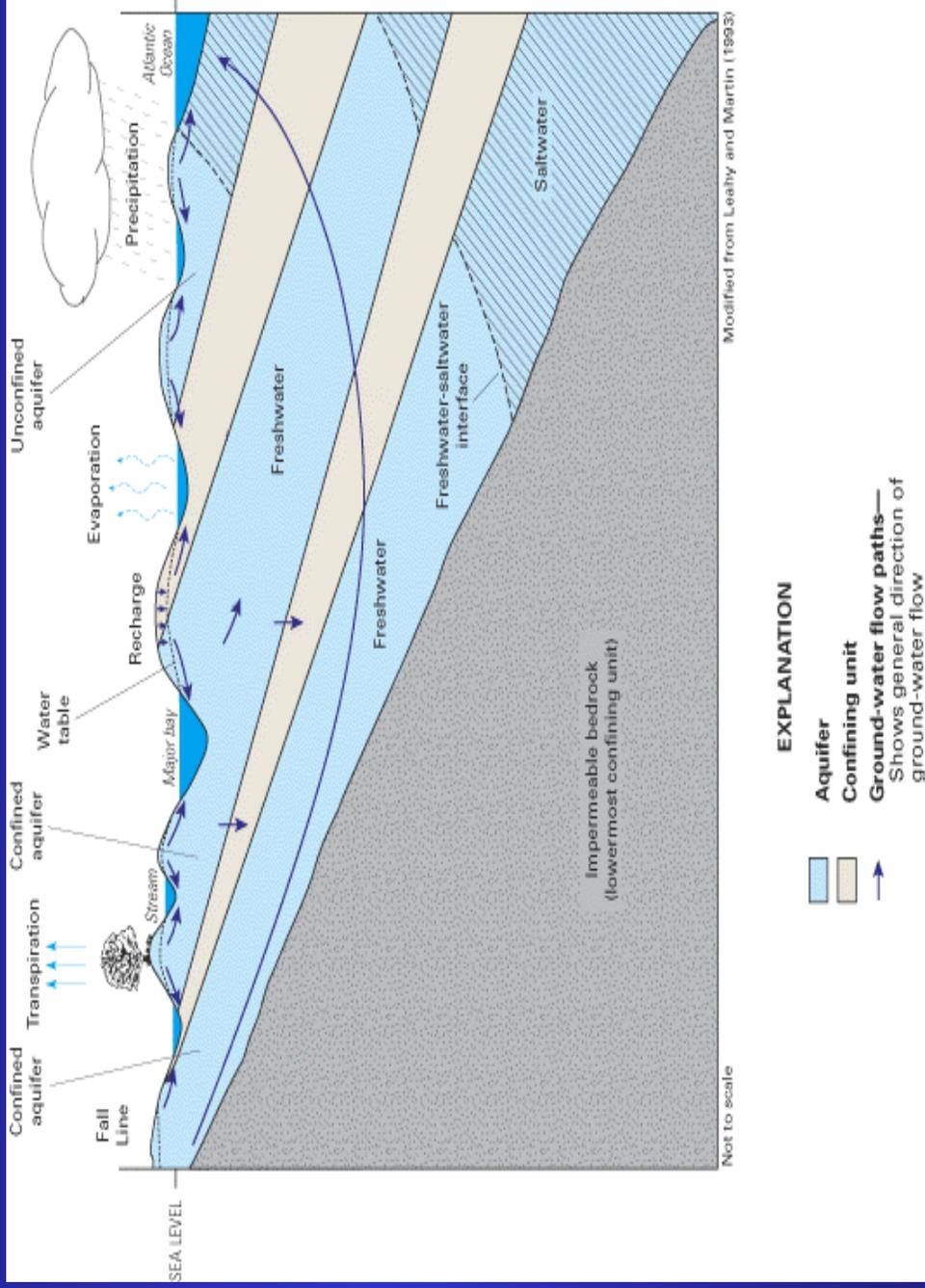


## Definitions

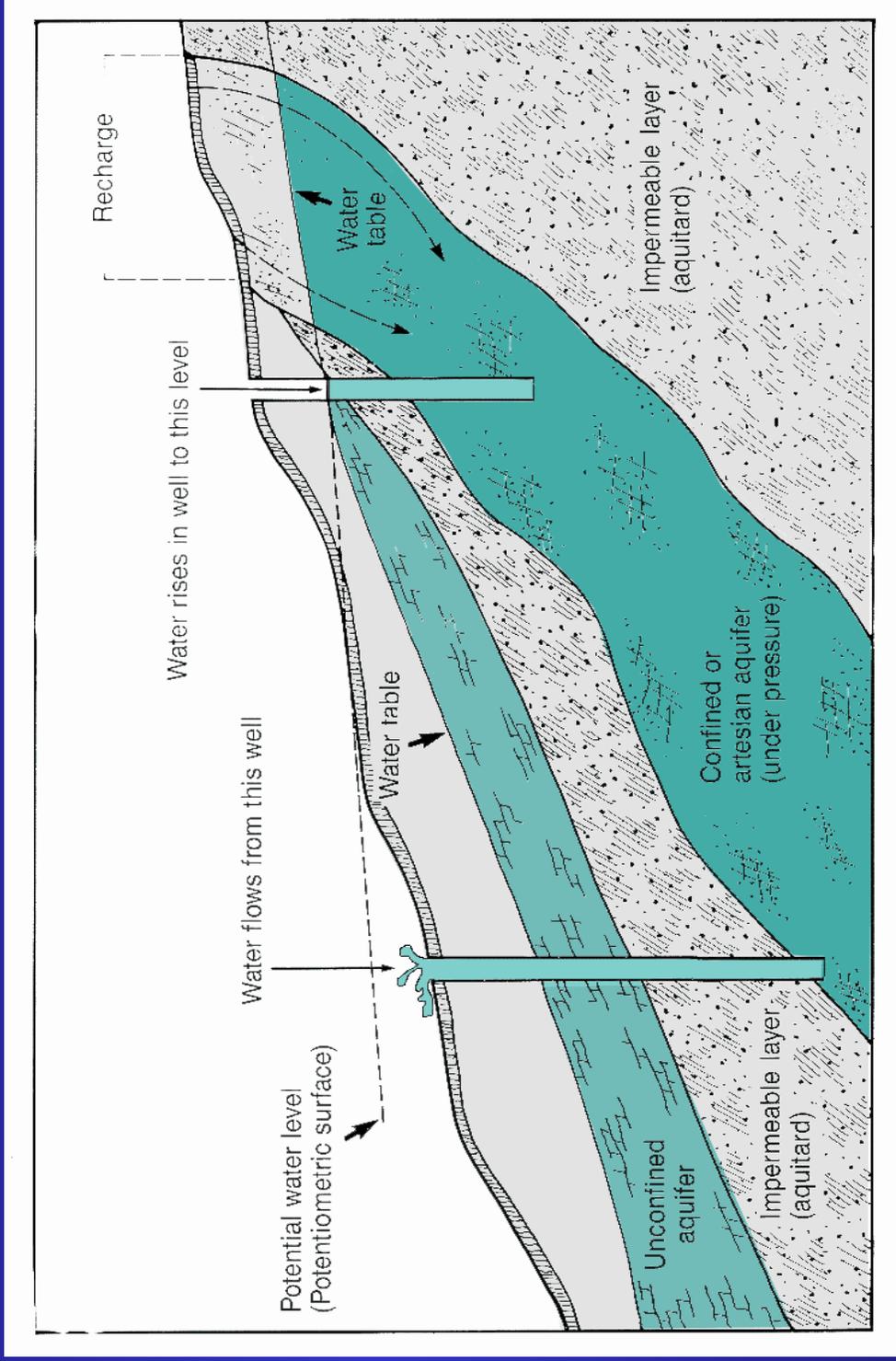
- **Aquifer:** a saturated permeable geologic unit that can transmit significant quantities of water under ordinary hydraulic gradients.
- **Aquiclude:** a geologic unit that is incapable of transmitting significant quantities of water under ordinary hydraulic conditions.
- **Aquitard:** the less-permeable beds in a stratigraphic sequence.
- **Confined aquifer:** an aquifer that is confined between two aquitards.

(Freeze and Cherry, 1979)

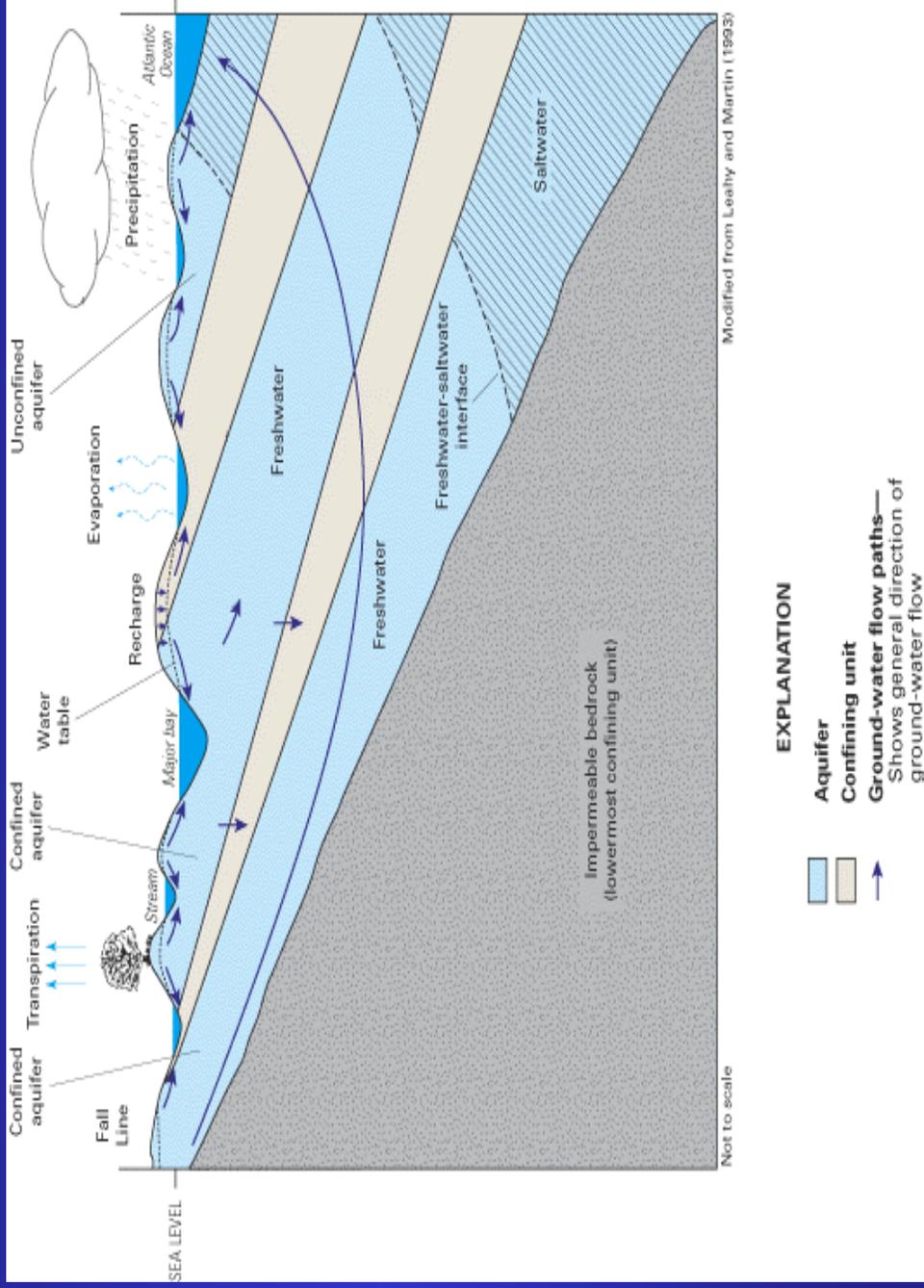
# Coastal Plain Aquifers



# Potentiometric Surface



# Recharge to the aquifers



## **Additional information:**

<http://water.usgs.gov/ogw/pubs.html>

[http://www.wm.edu/geology/virginia/coastal\\_plain.html](http://www.wm.edu/geology/virginia/coastal_plain.html)

<http://www.mgs.md.gov/coastal/index.html>

*Among many others*

**Jim Palmer**

**[jpalmer@icprb.org](mailto:jpalmer@icprb.org)**

