

# **Maps**

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## **Dominant Soil Orders in the United States**

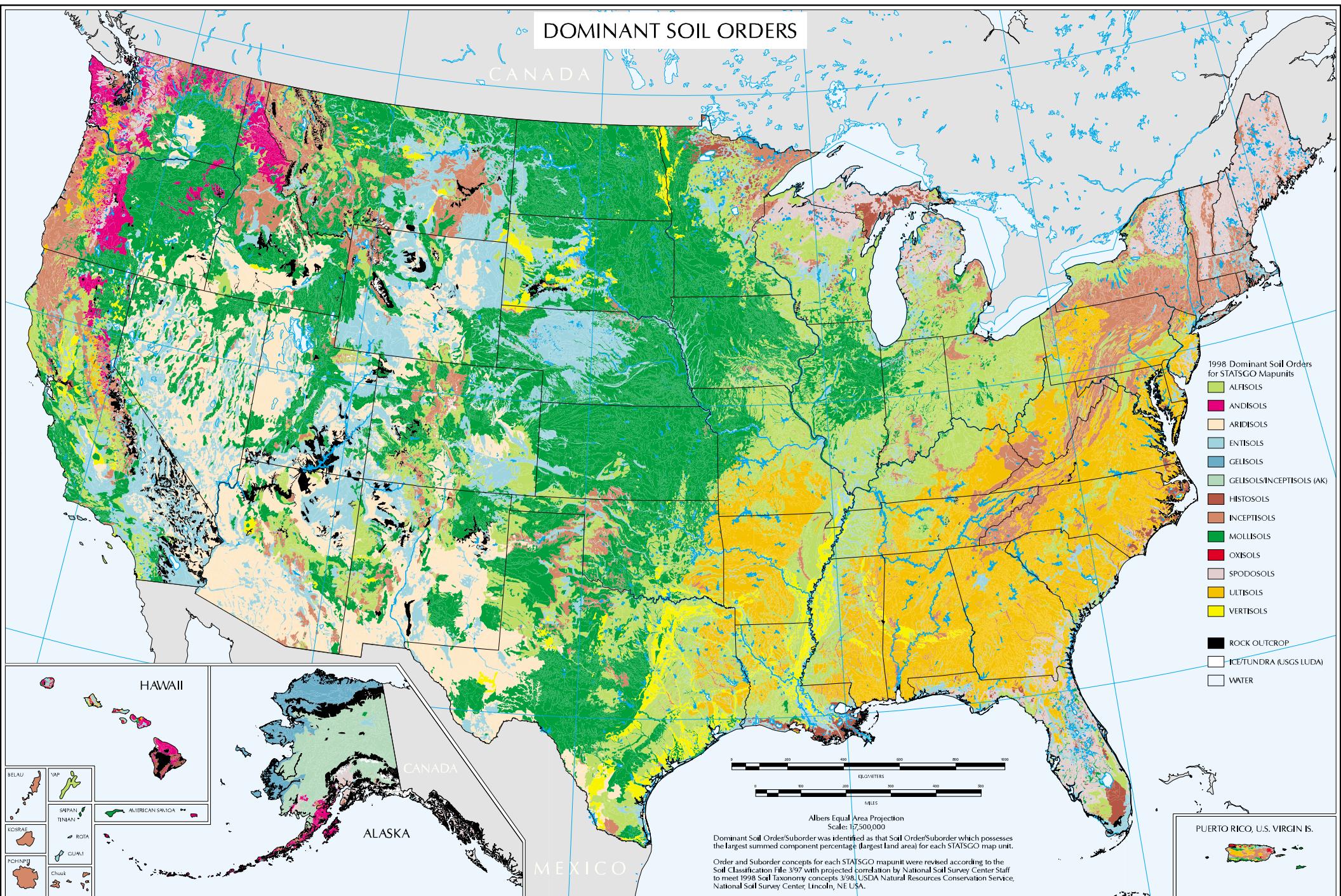
Dominant Suborders

- Alfisols
- Andisols
- Aridisols
- Entisols
- Gelisols
- Histosols
- Inceptisols
- Mollisols
- Oxisols
- Spodosols
- Ultisols
- Vertisols

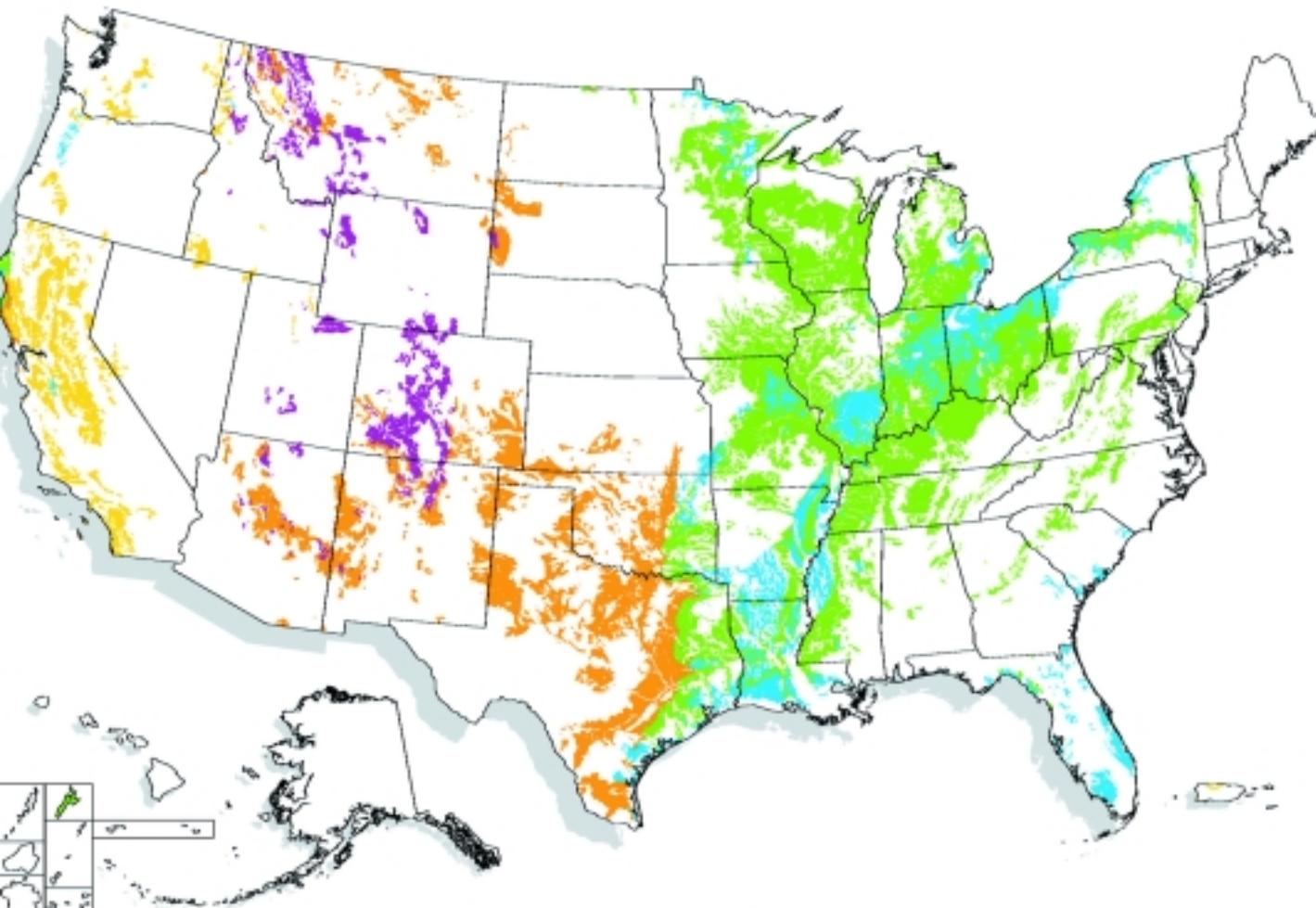
**Global Soil Regions** (To print this map on 8.5 x 11 inch paper, select File, Print, Fit to Page.)

[Click here to go to Table of Contents.](#)

## DOMINANT SOIL ORDERS

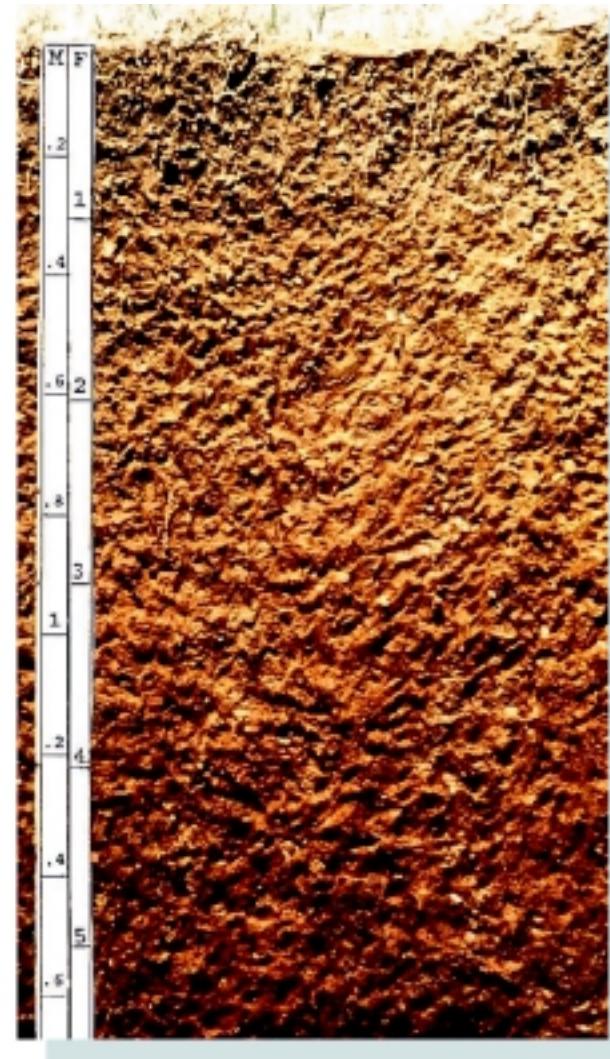


# ALFISOLS



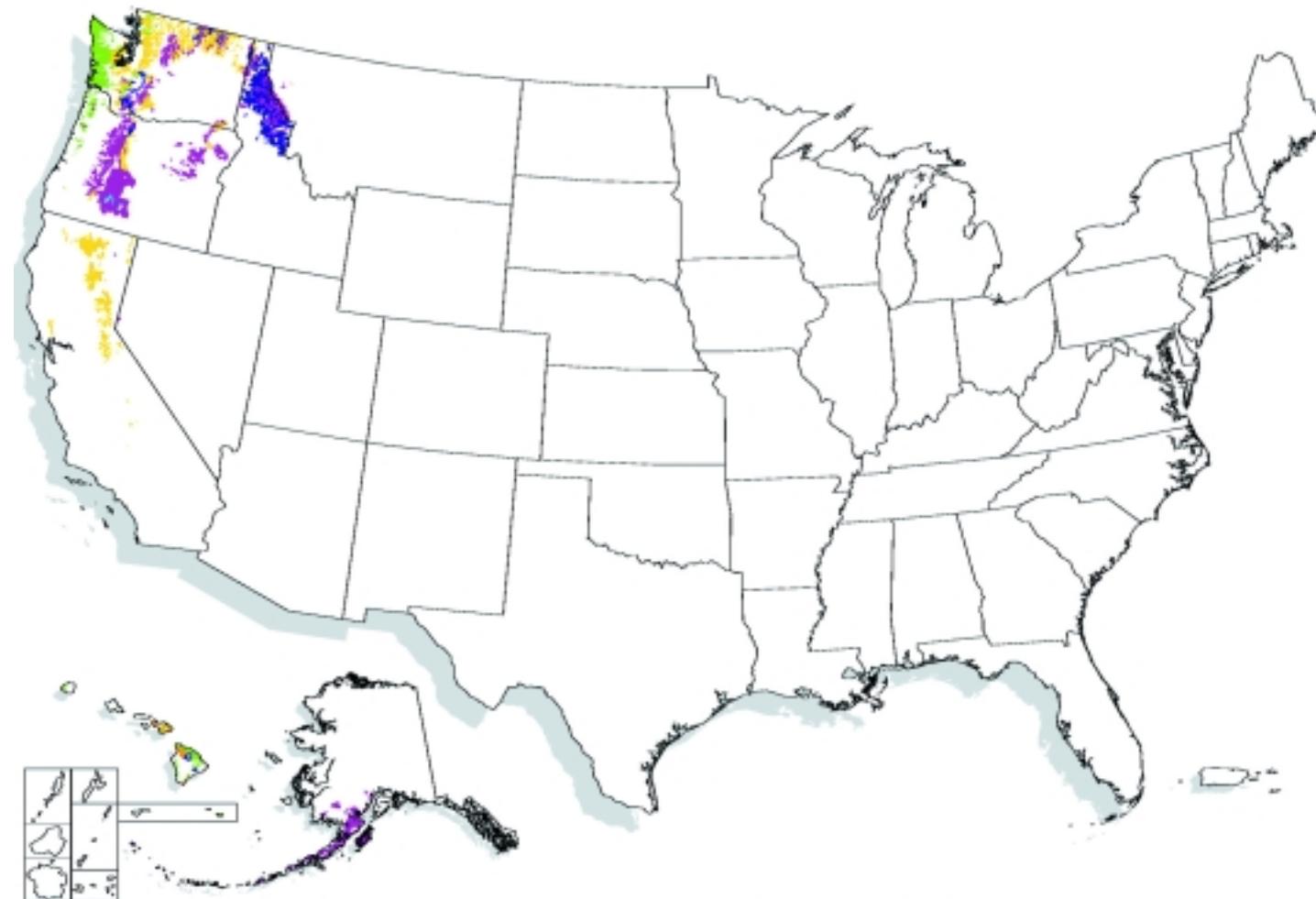
## DOMINANT SUBORDERS

- |  |         |  |         |
|--|---------|--|---------|
|  | Aqualfs |  | Ustalfs |
|  | Cryalfs |  | Xeralfs |
|  | Udalfs  |  |         |



Alfisols have an argillic, kandic, or natric horizon and a relatively high content of bases. They typically have an ochric epipedon. Some also have a duripan, a fragipan, or a petrocalcic horizon. Most formed under forest or savanna vegetation.

# ANDISOLS



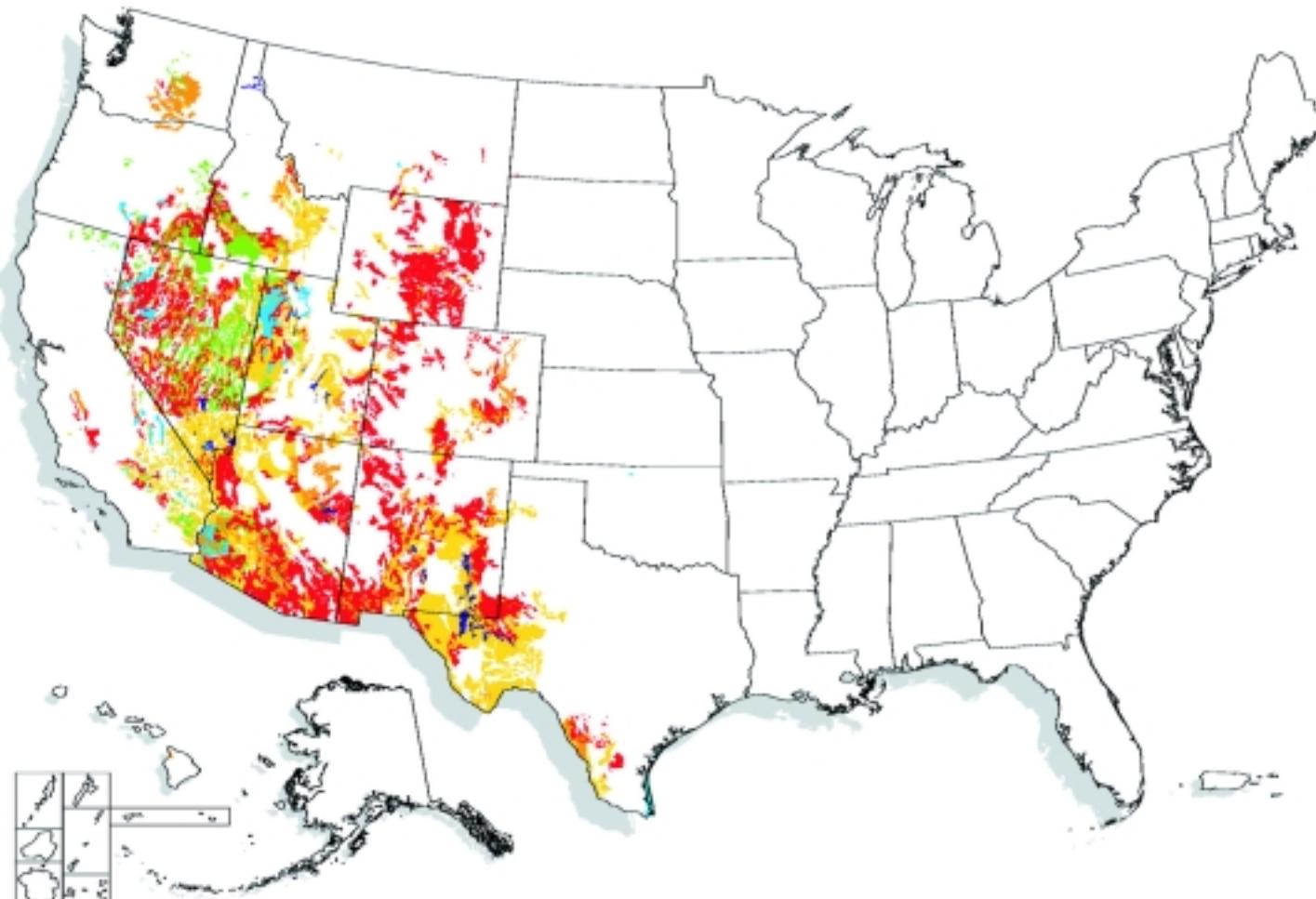
## DOMINANT SUBORDERS

- |  |          |  |          |  |         |
|--|----------|--|----------|--|---------|
|  | Aquands  |  | Udands   |  | Xerands |
|  | Cryands  |  | Ustands  |  |         |
|  | Torrands |  | Vitrands |  |         |



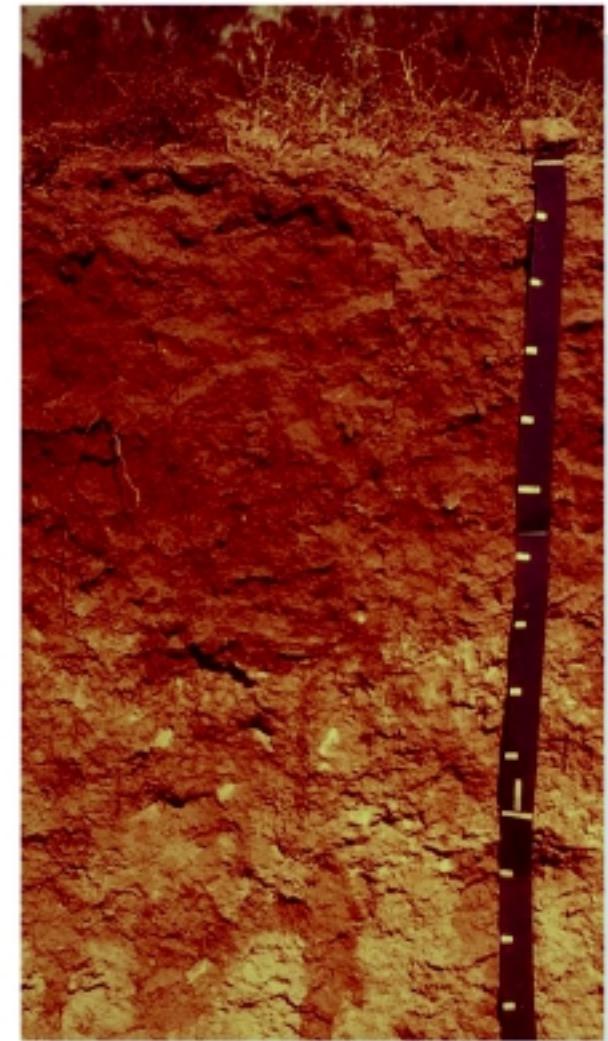
Andisols are dominated by short-range-order minerals or Al-humus complexes, and many have a large content of volcanic materials. The dominant soil-forming process is *in situ* mineral transformation. These soils commonly have a cambic horizon and can have any diagnostic epipedon.

# ARIDISOLS



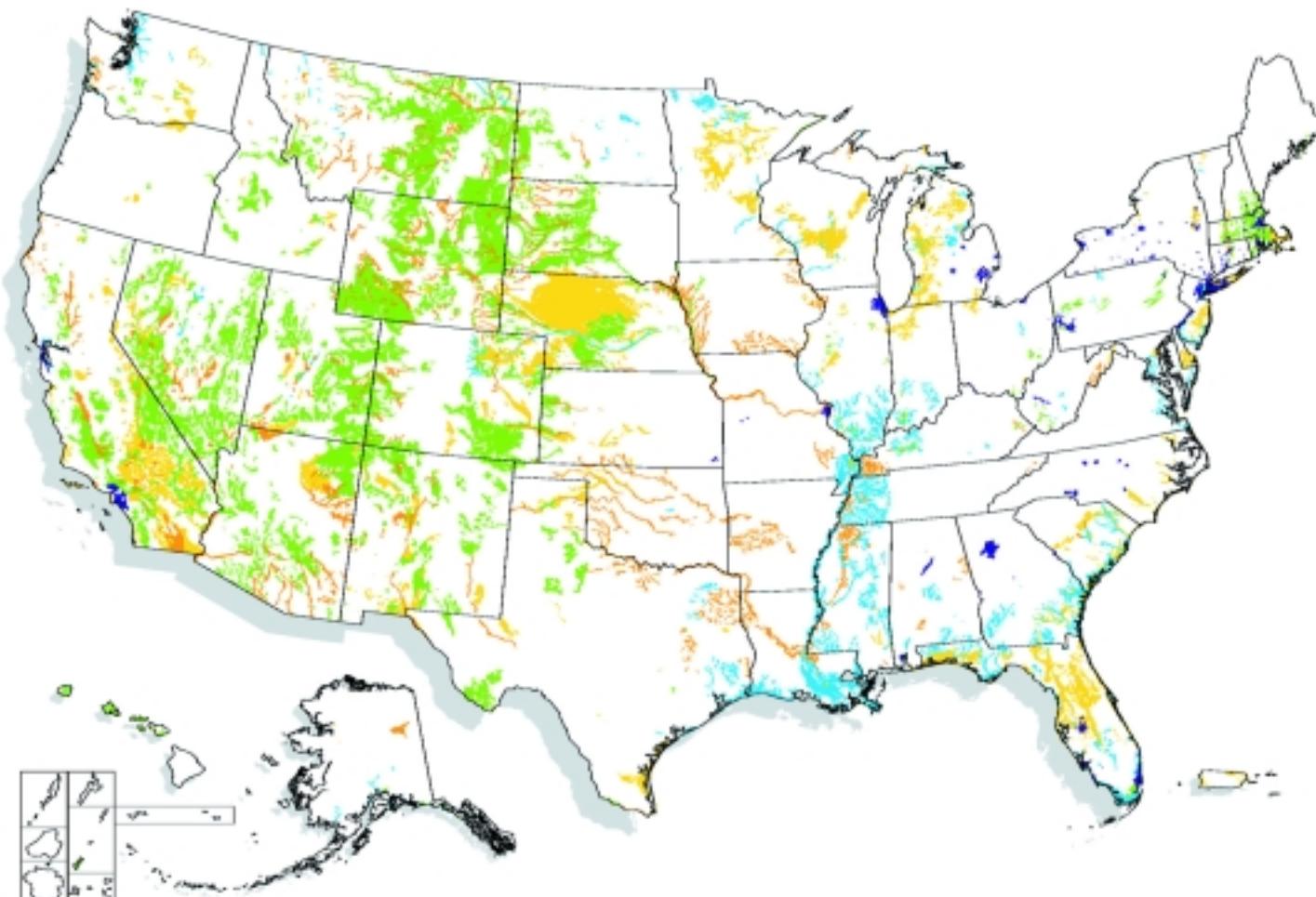
## DOMINANT SUBORDERS

- |                                       |         |   |         |                                     |        |
|---------------------------------------|---------|---|---------|-------------------------------------|--------|
| <span style="color: red;">■</span>    | Argids  | <span style="color: purple;">■</span>     | Cryids  | <span style="color: cyan;">■</span> | Salids |
| <span style="color: yellow;">■</span> | Calcids | <span style="color: lightgreen;">■</span> | Durids  |                                     |        |
| <span style="color: orange;">■</span> | Cambids | <span style="color: darkblue;">■</span>   | Gypsids |                                     |        |



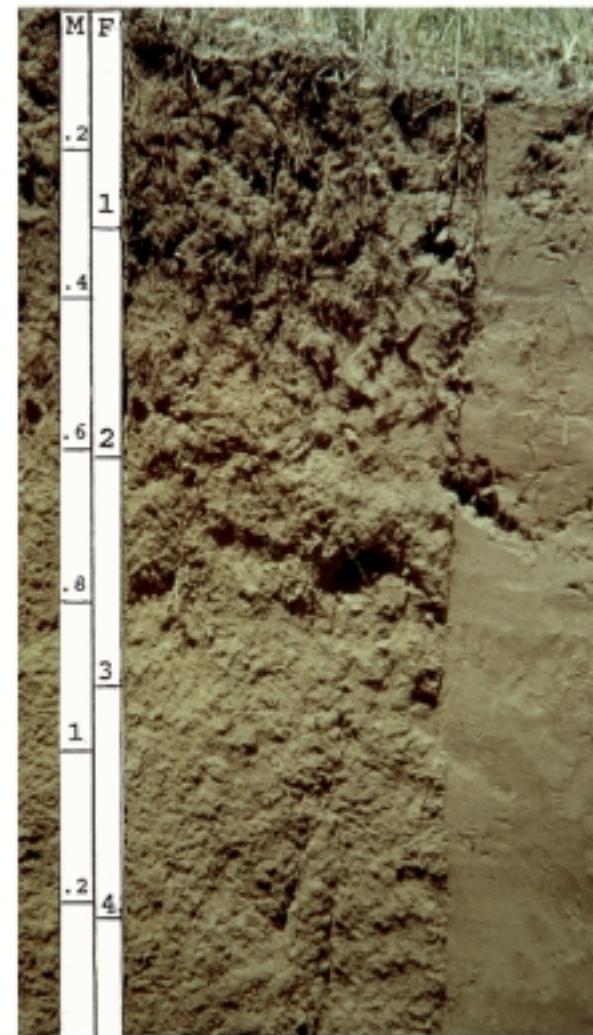
Aridisols have an aridic moisture regime. They also have one or more of the following diagnostic horizons: an argillic, calcic, cambic, gypsic, natic, petrocalcic, petrogypsic, or salic horizon or a duripan. These soils typically have an ochric epipedon.

# ENTISOLS



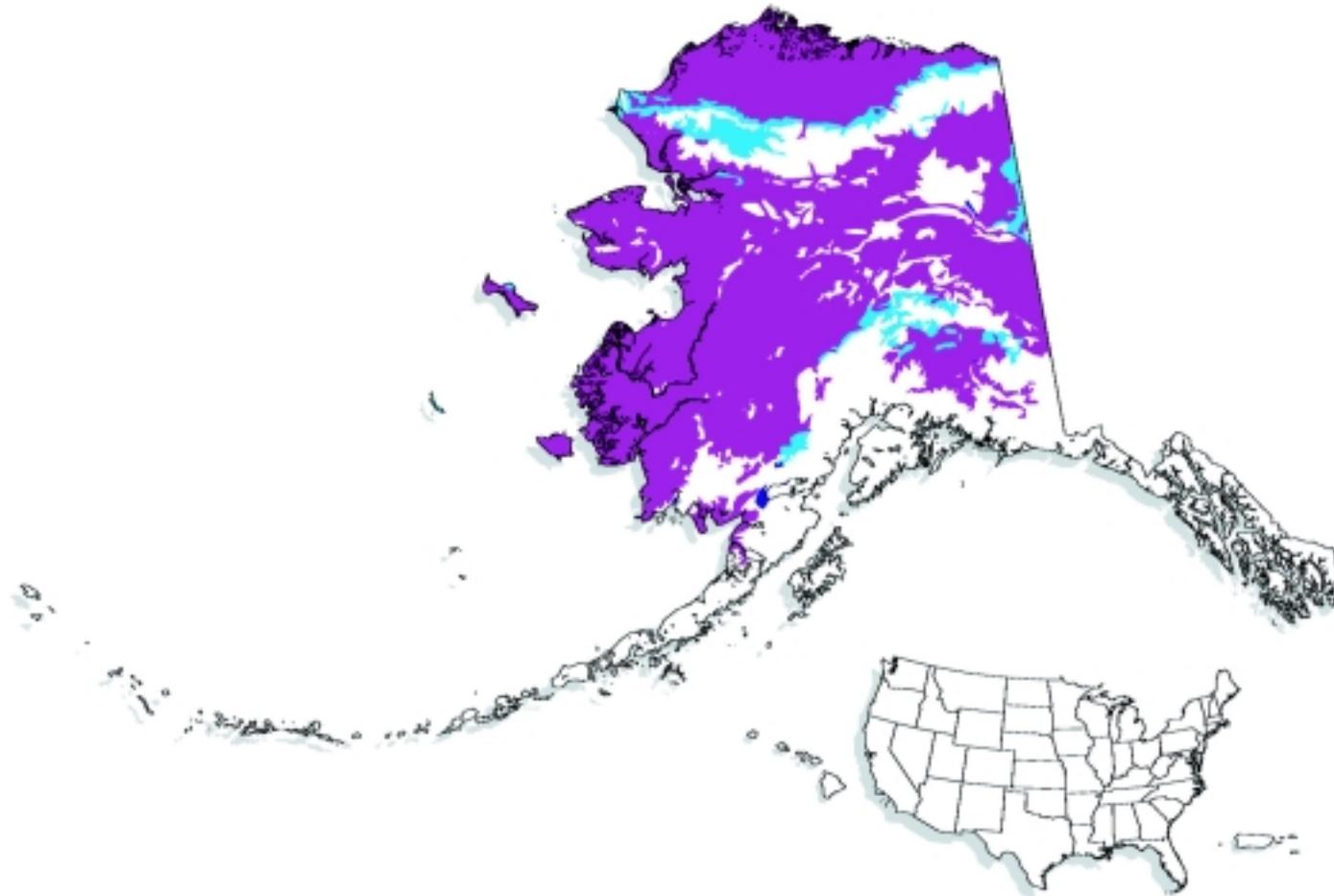
## DOMINANT SUBORDERS

- |  |          |  |           |
|--|----------|--|-----------|
|  | Aquents  |  | Orthents  |
|  | Arents   |  | Psamments |
|  | Fluvents |  |           |



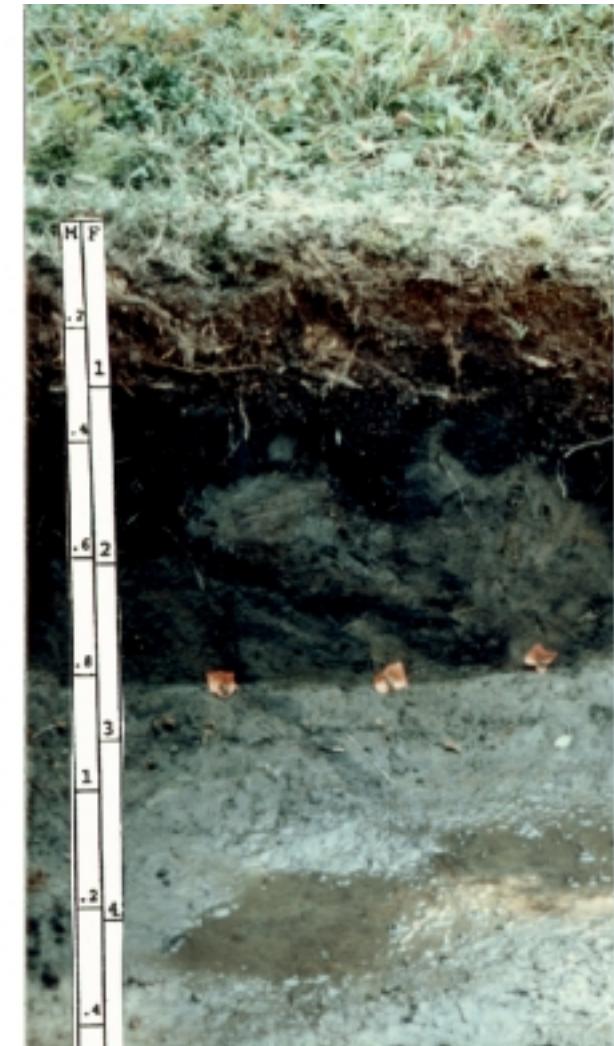
Entisols have little or no evidence of the development of diagnostic horizons. Many have an ochric epipedon. Many are sandy or very shallow.

# GELISOLS



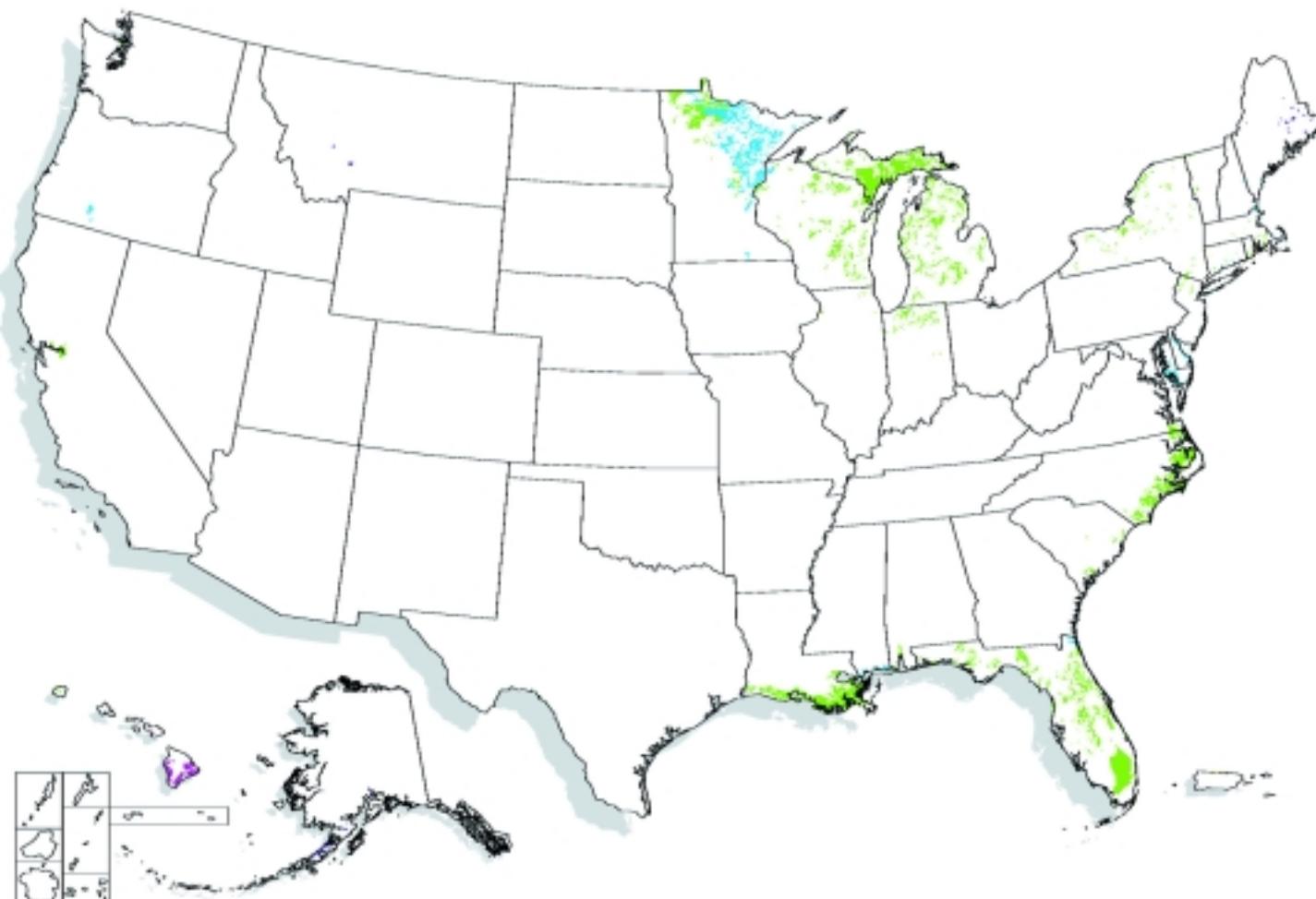
## DOMINANT SUBORDERS

- █ Histels
- █ Orthels
- █ Turbels



Gelisols have permafrost, and many are cryoturbated. These soils consist of mineral or organic soil materials, or both. They commonly have layers of gelic materials and a histic or ochric epipedon.

# HISTOSOLS



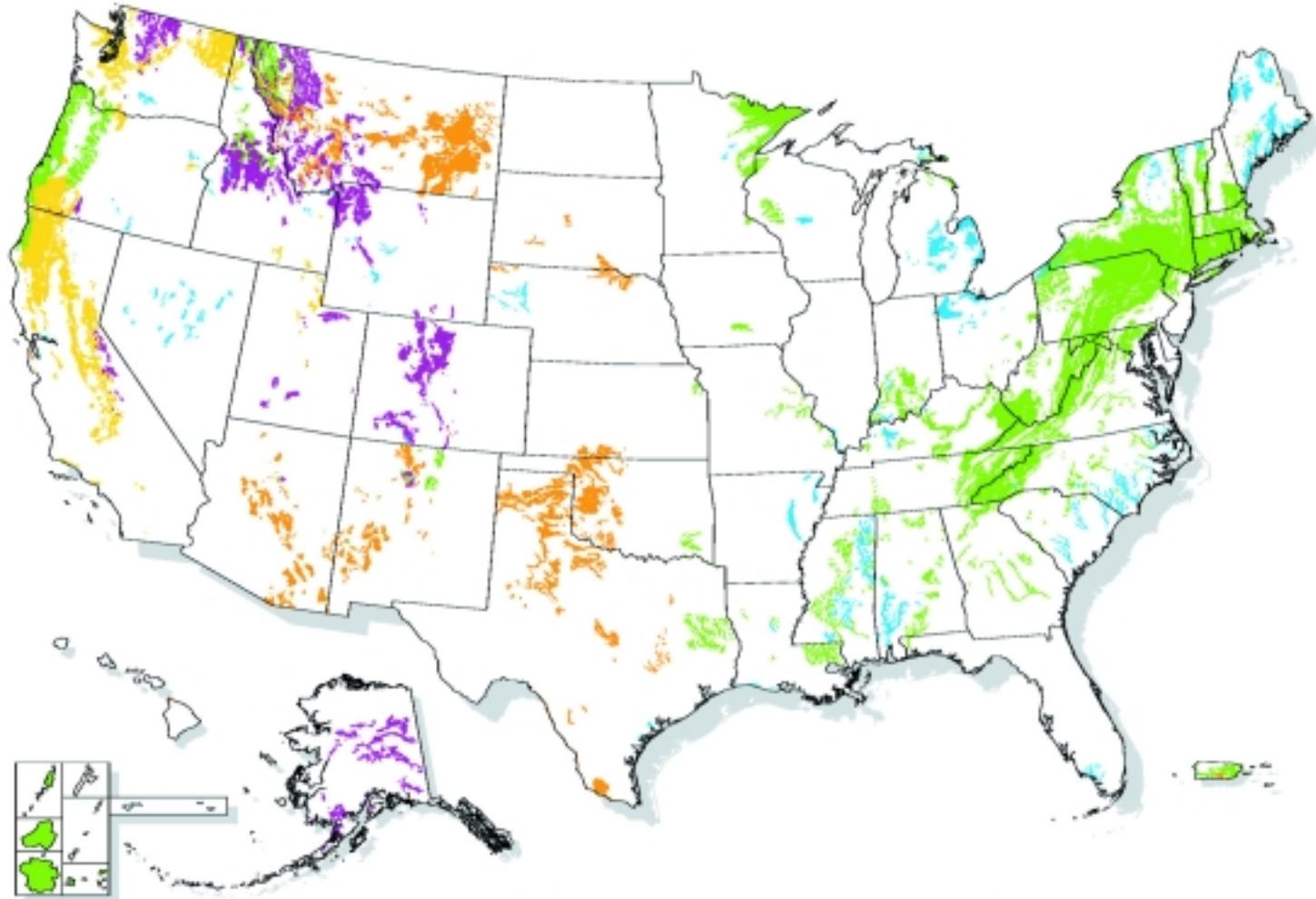
## DOMINANT SUBORDERS

- █ Fibrists    █ Saprists
- █ Folists
- █ Hemists



Histosols are dominated by organic soil materials. They are mostly soils commonly called bogs, moors, peats, or mucks. Some consist of a thin layer of organic materials over a root-limiting layer or fragmental materials.

# INCEPTISOLS



Inceptisols have many kinds of diagnostic horizons but cannot have an argillic, kandic, natric, oxic, or spodic horizon. They commonly have a cambic horizon and an ochric or umbric epipedon.

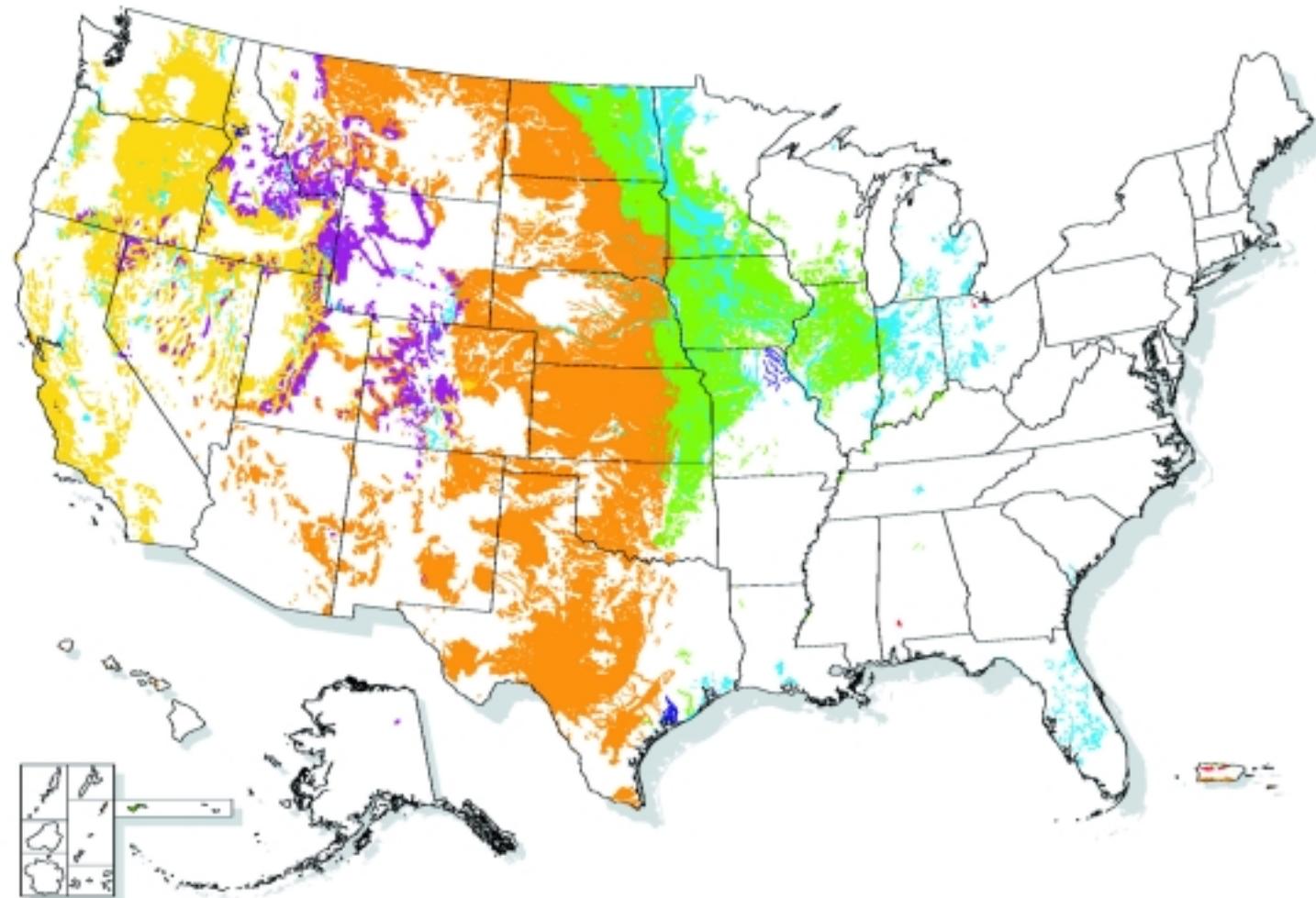
## DOMINANT SUBORDERS

	Anthrepts		Udepts
	Aquepts		Ustepts
	Cryepts		Xerepts



Mollisols have a mollic epipedon and a relatively high content of bases. Many also have an argillic, natic, or calcic horizon. Some have a duripan or a petrocalcic horizon. Most formed under grass or savanna vegetation.

## MOLLISOLS

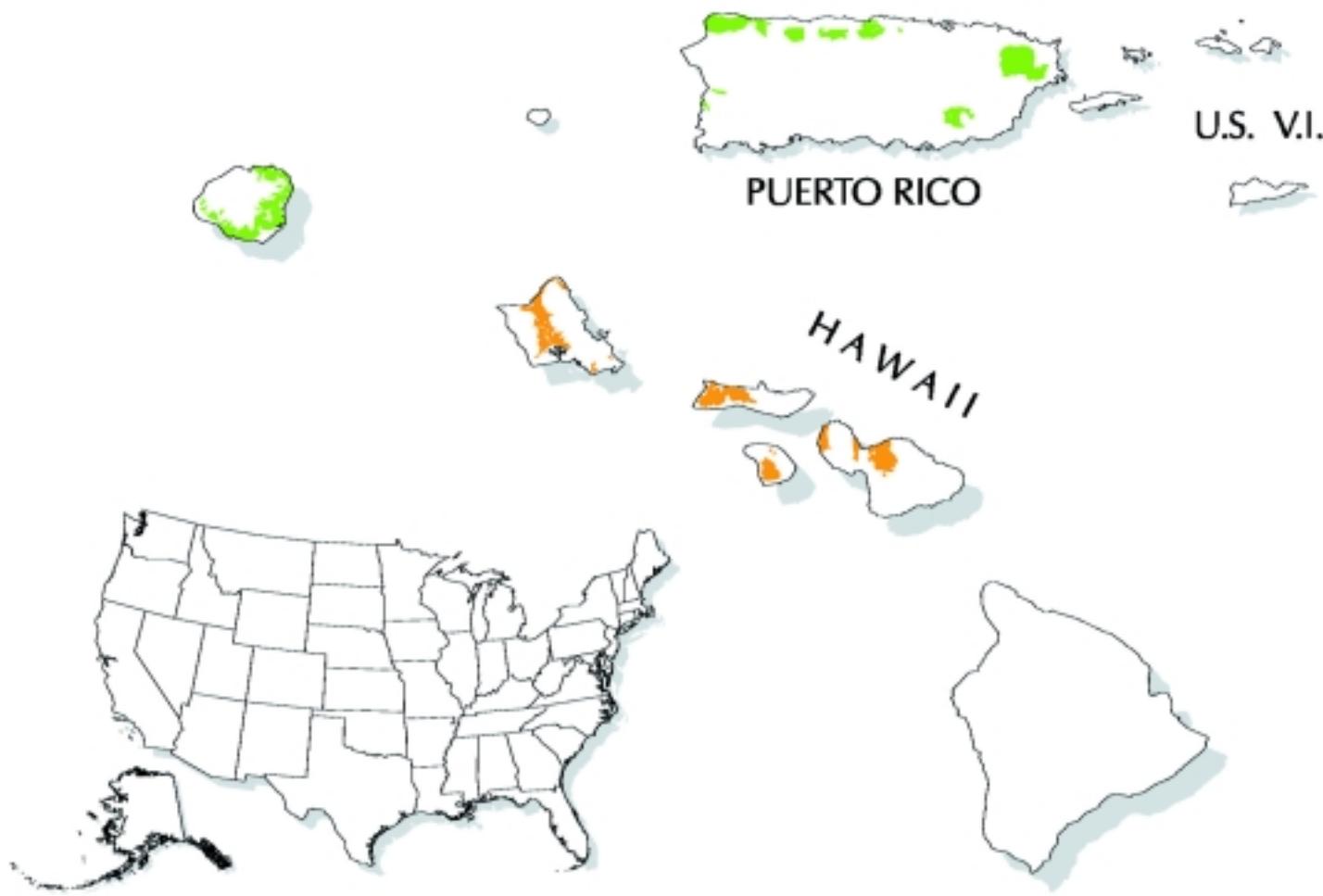


### DOMINANT SUBORDERS

Albolls	Rendolls	Xerolls
Aquolls	Udolls	
Cryolls	Ustolls	



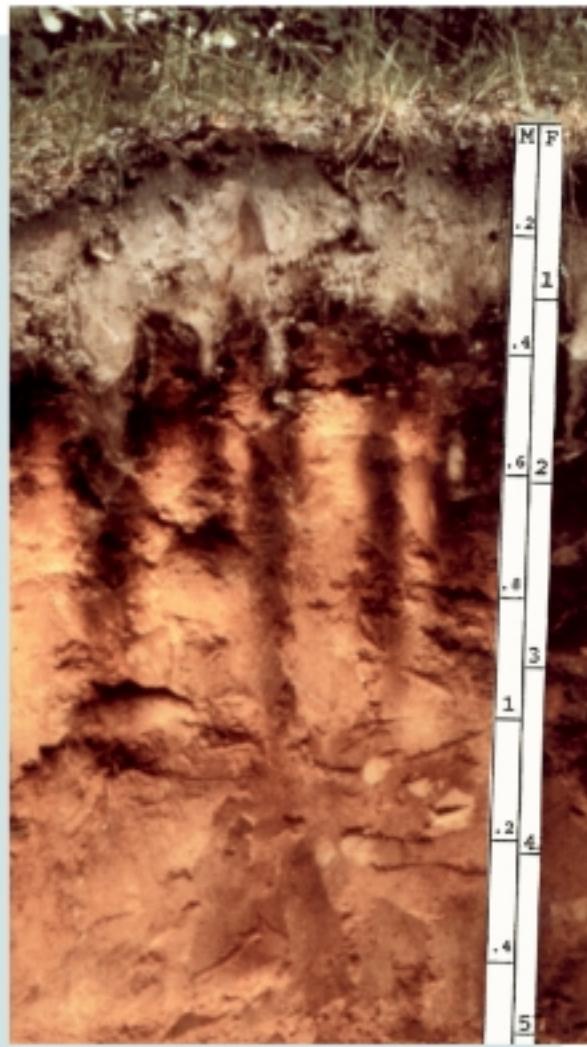
## OXISOLS



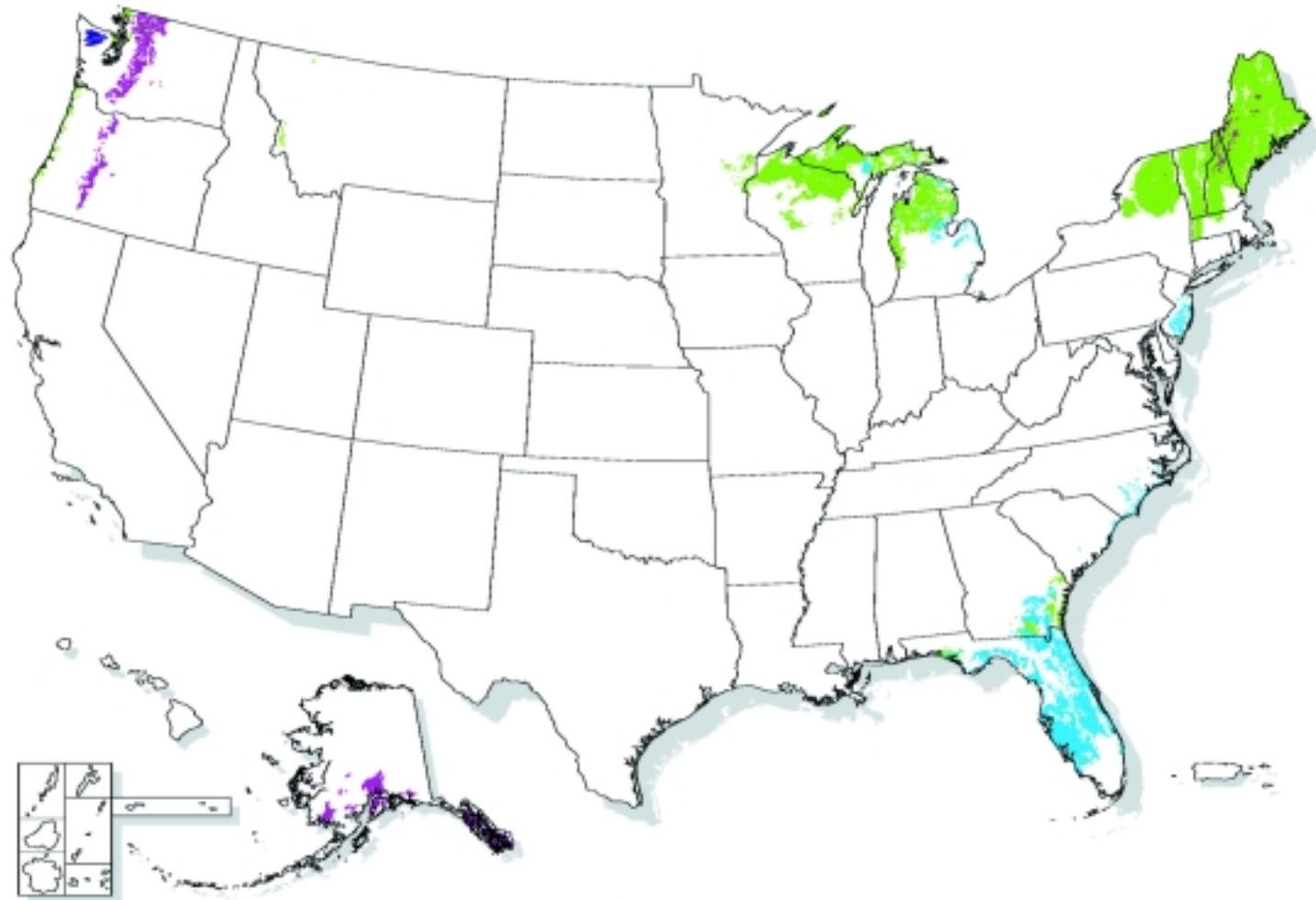
Oxisols have a clay fraction with a low cation-exchange capacity and have very few weatherable minerals. They have an oxic or kandic horizon and commonly have an ochric epipedon. Most formed under tropical forest vegetation.

### DOMINANT SUBORDERS

Aquox	Udox
Perox	Ustox
Torrox	



## SPODOSOLS

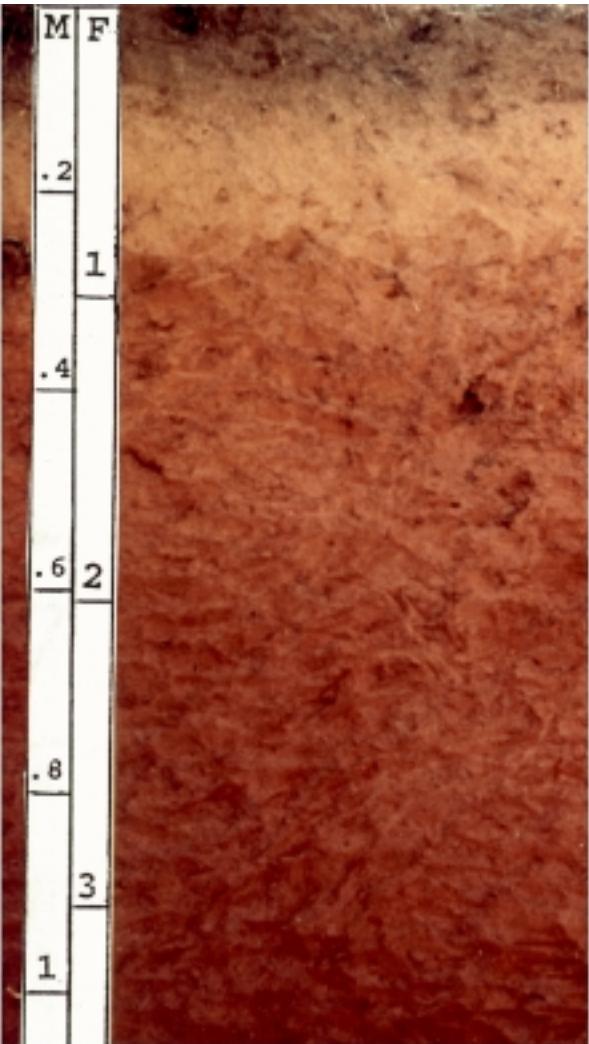


Spodosols have a spodic horizon and commonly an albic horizon and an ochric epipedon. Most formed under forest vegetation. Dominant processes are weathering and translocation of minerals. The colloidal fraction is dominated by Al-humus complexes and short-range-order minerals.

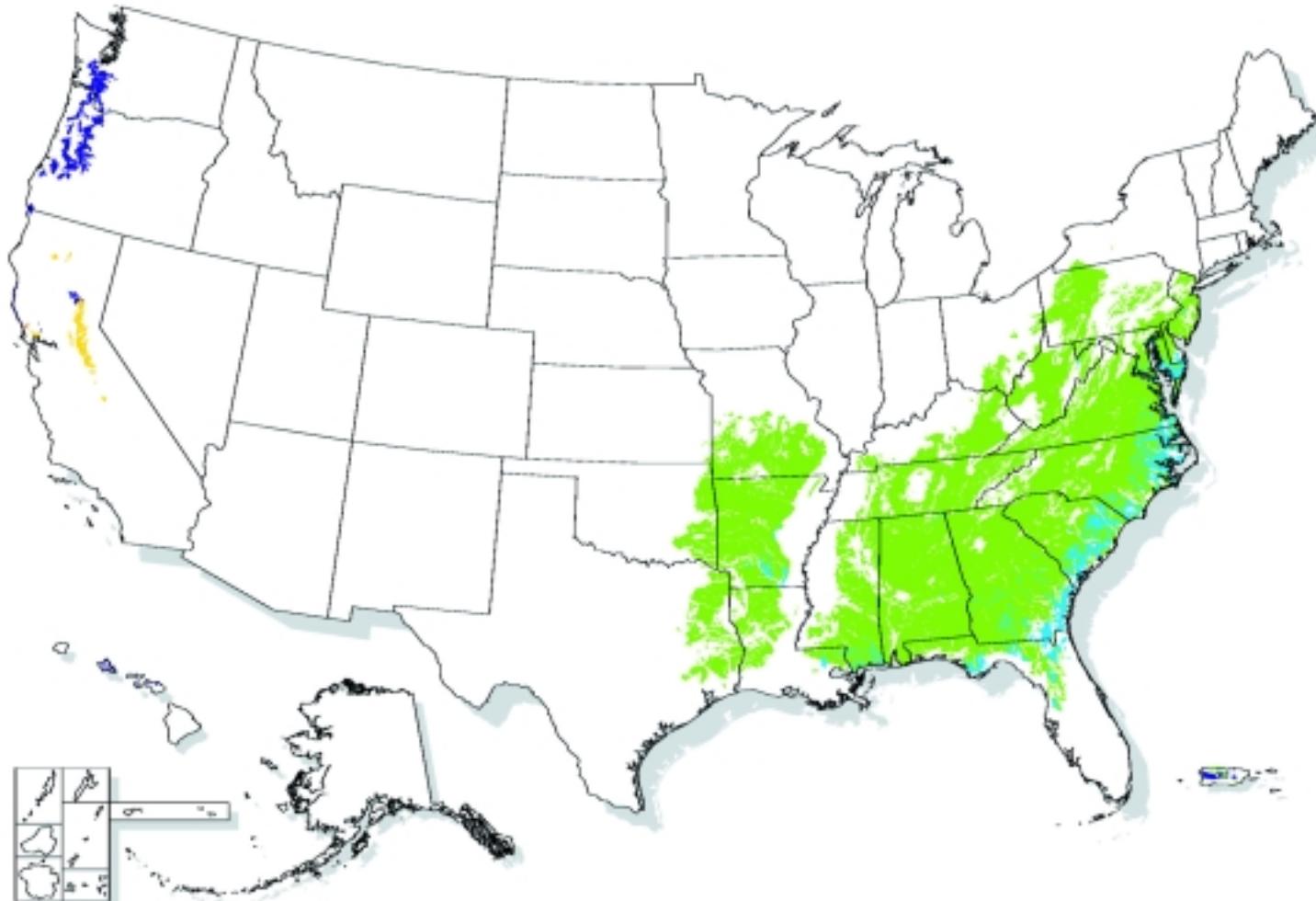
### DOMINANT SUBORDERS

- Aquods      Orthods
- Cryods
- Humods

# ULTISOLS



Ultisols have an argillic or kandic horizon and a relatively low content of bases. They typically have an ochric epipedon. Some also have a fragipan. Most formed under forest vegetation.



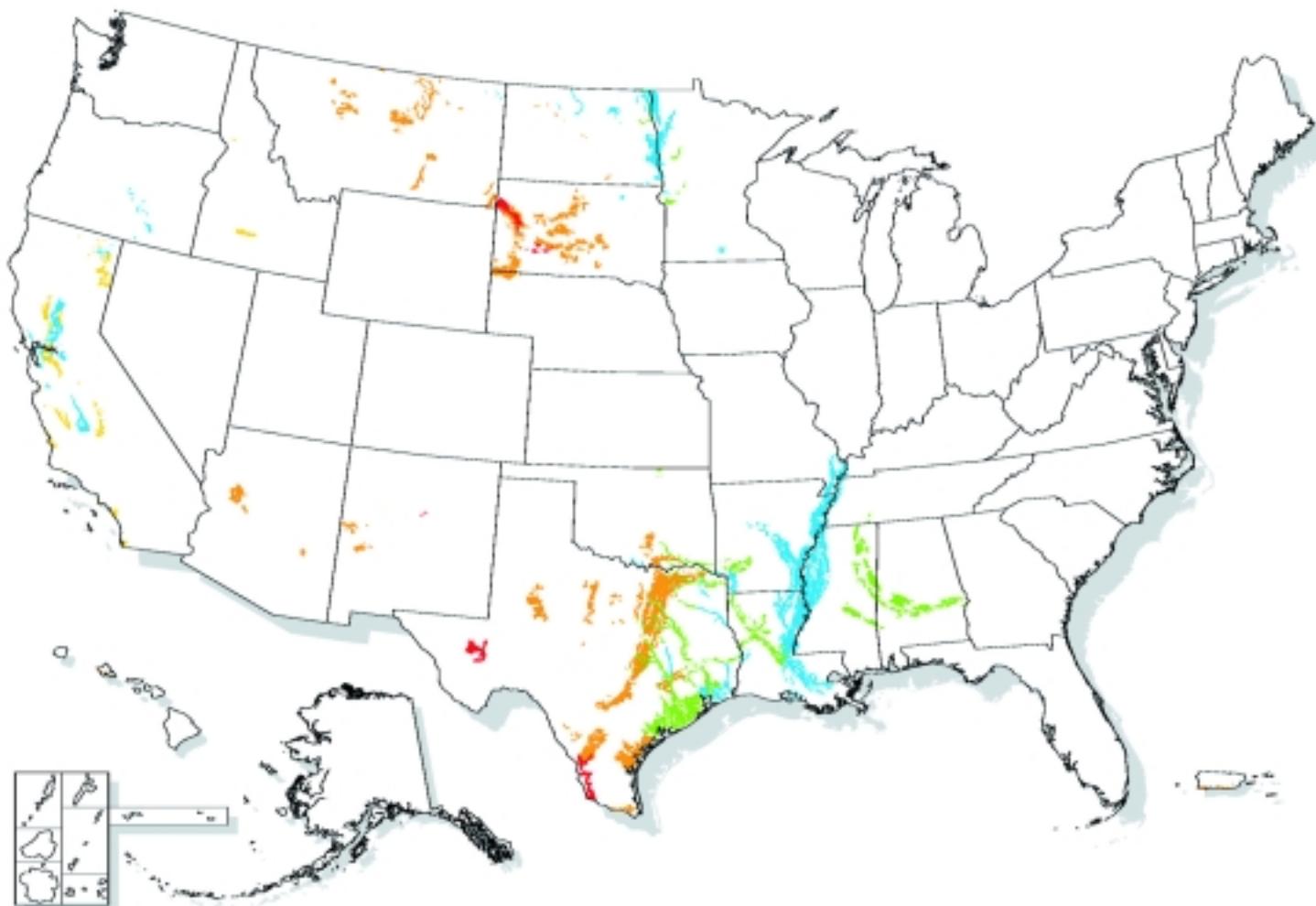
## DOMINANT SUBORDERS

- |         |         |
|---------|---------|
| Aquults | Ustults |
| Humults | Xerults |
| Udupts  |         |

# VERTISOLS



Vertisols are high in expanding clays that shrink when the soils become dry and swell when they become moist. Vertisols commonly have slickensides and develop deep, wide cracks when dry.



## DOMINANT SUBORDERS

Cryerts	Aquerts	Uderts
Torerts	Usterts	Xererts

# Global Soil Regions

