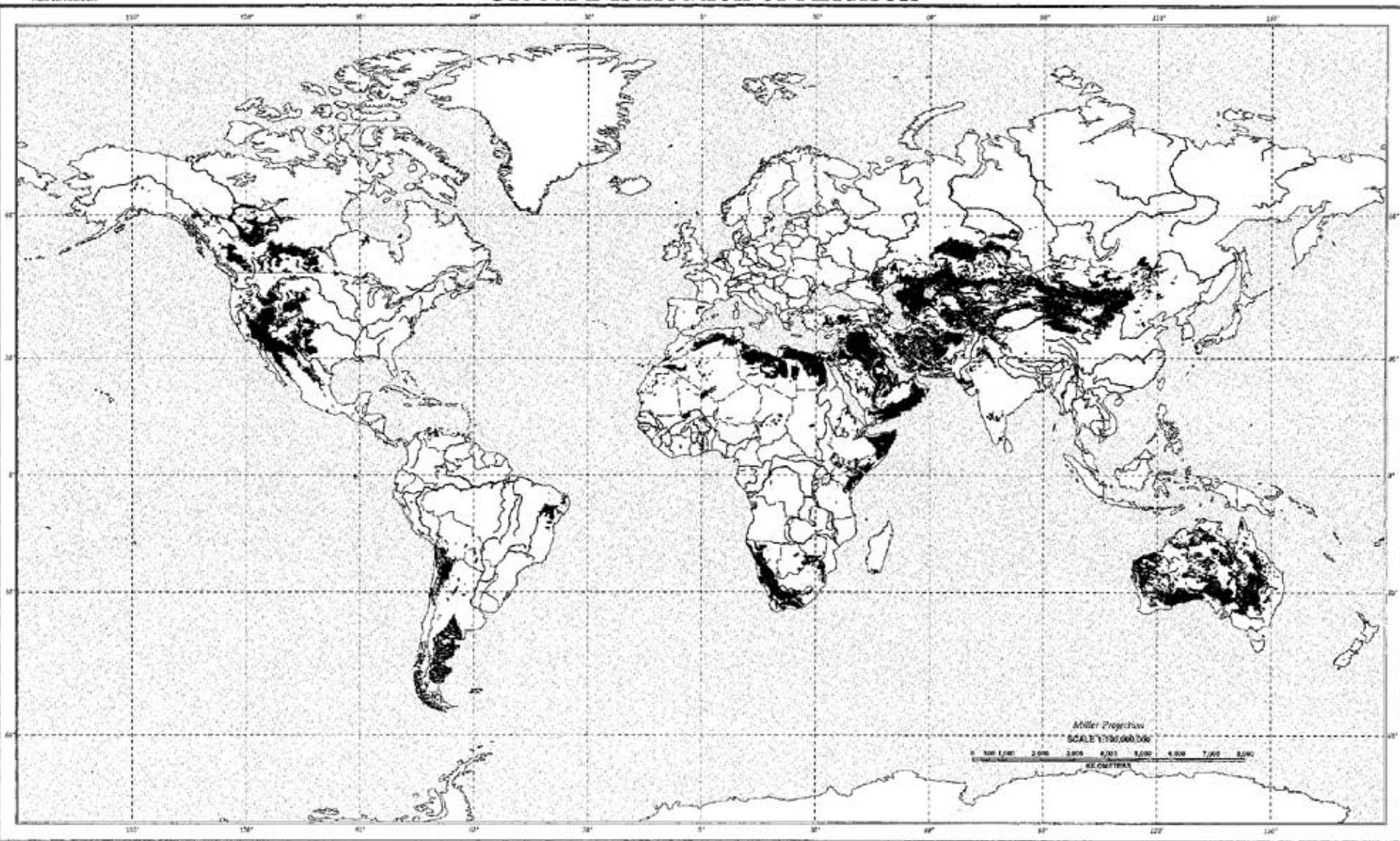


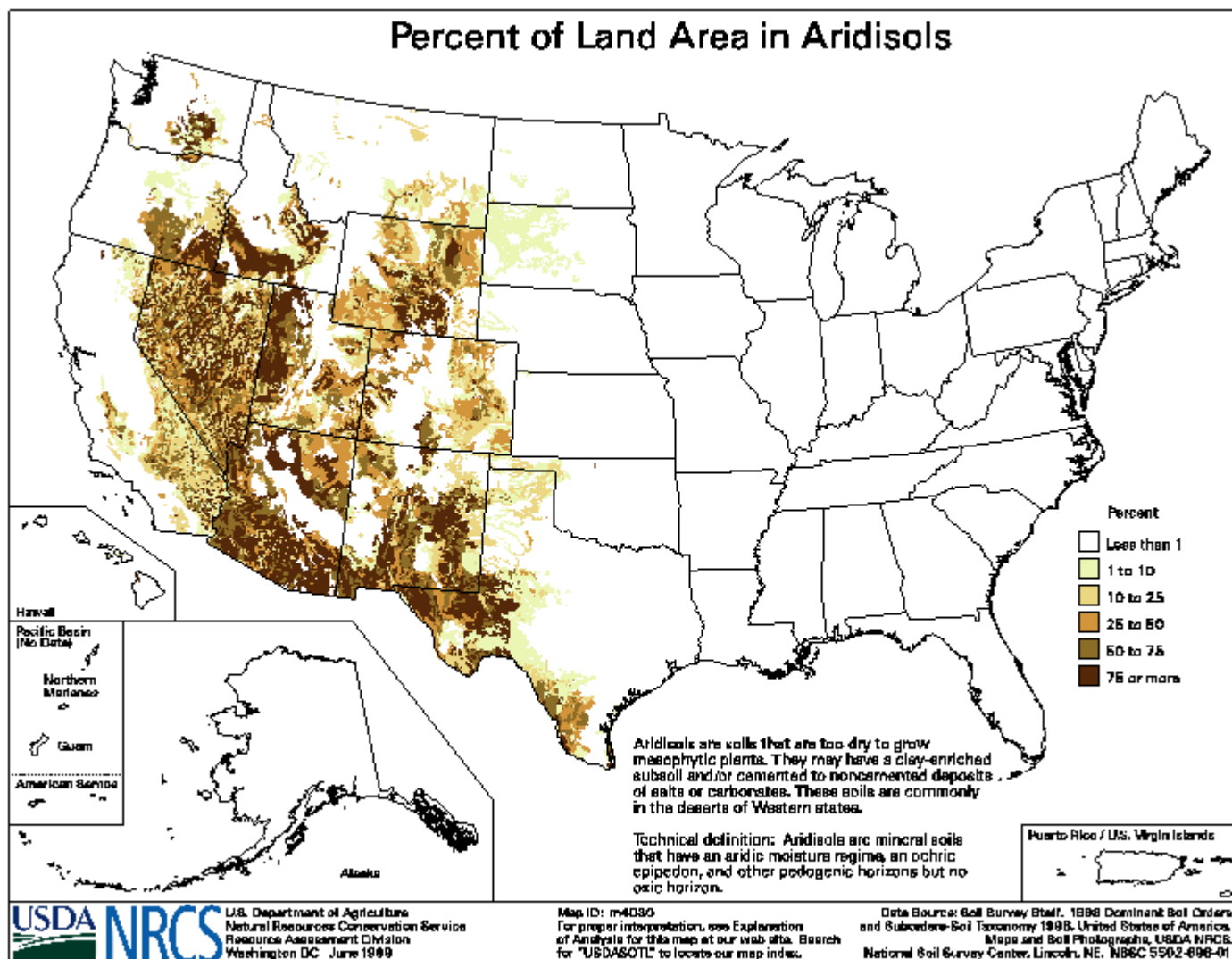
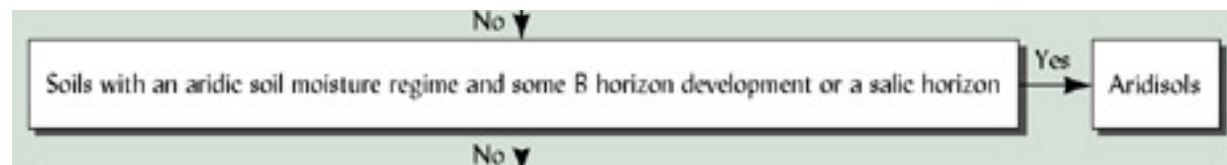
ARIDISOLS

Soils of arid region (classified by climate)

U.S. Dept. of Agriculture
Natural Resources Conservation Service
Soil Survey Division
World Soil Resources

Global Distribution of Aridisols

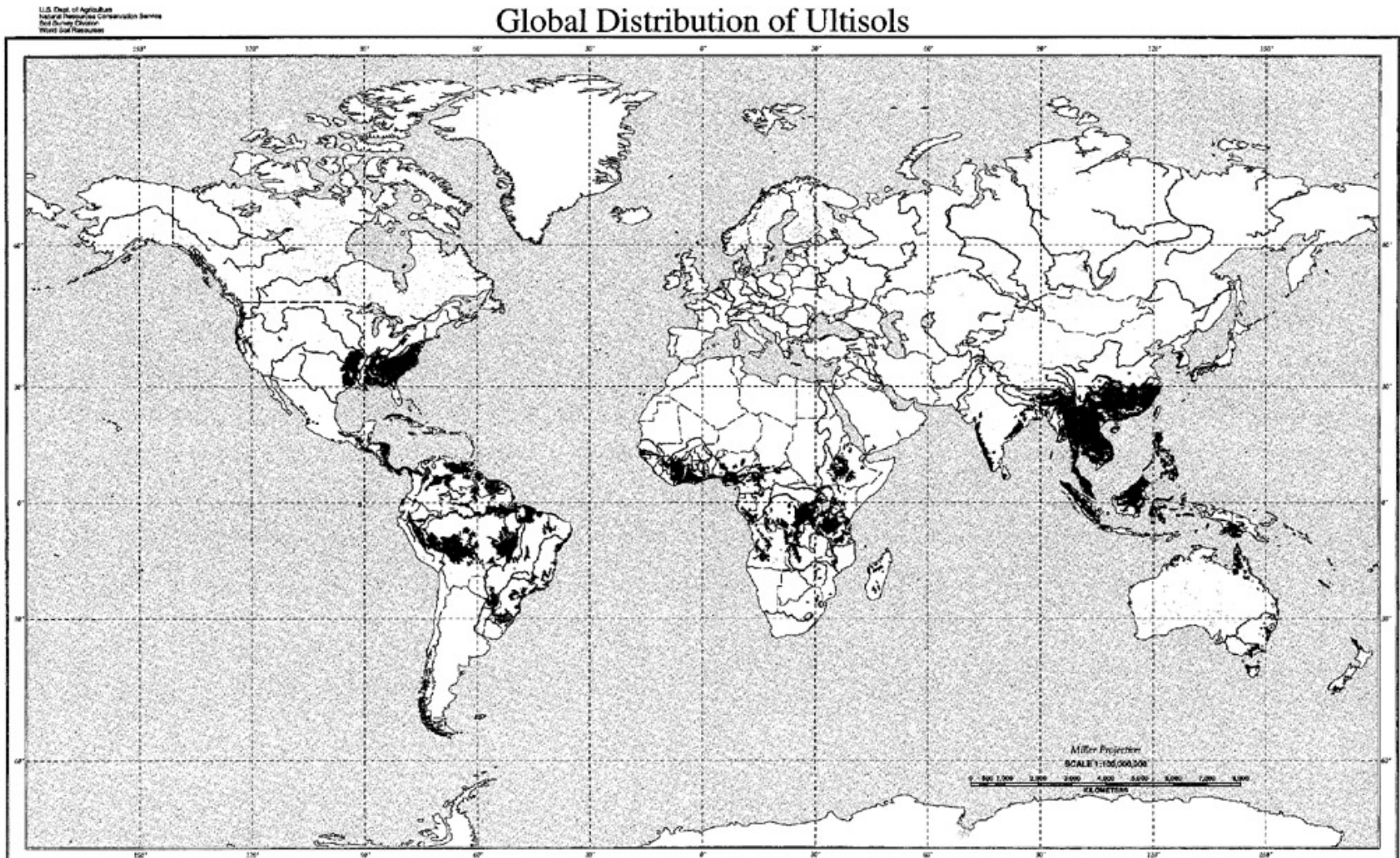




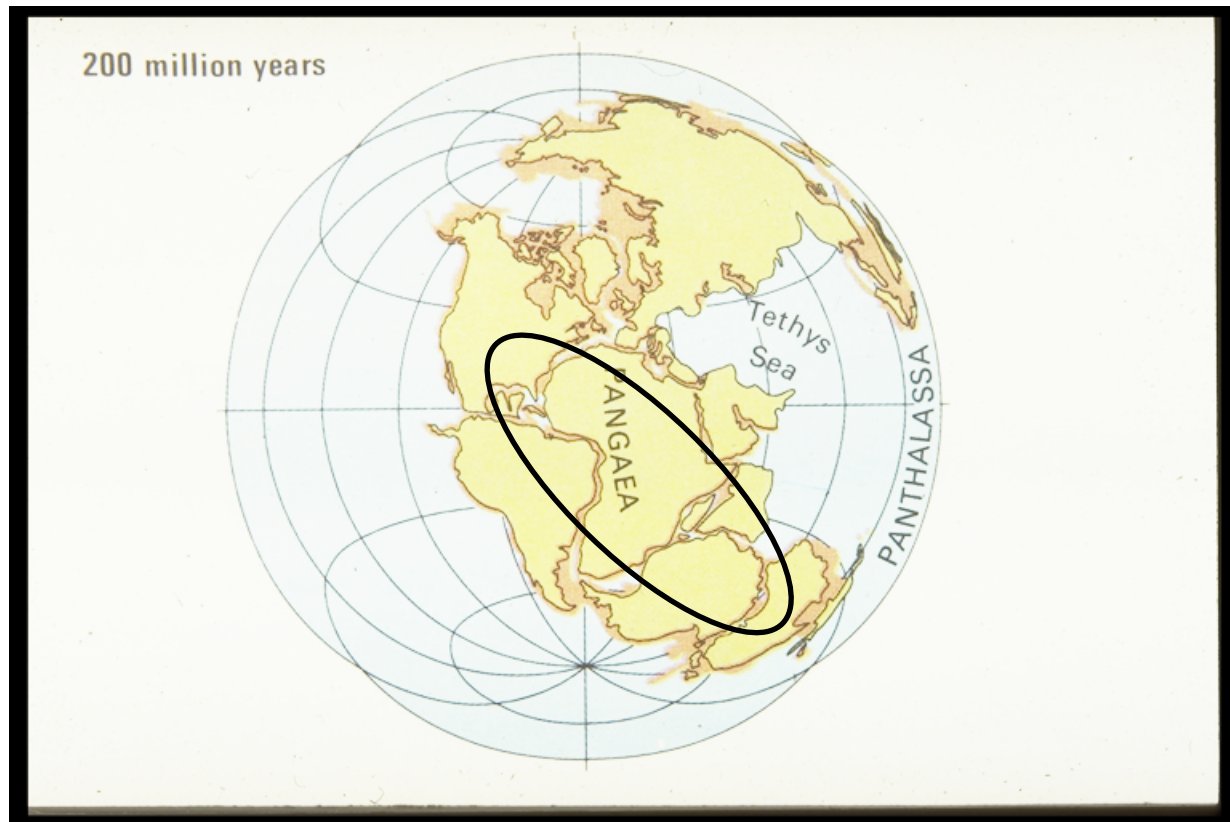
ULTISOLS

**Similar to Alfisol, but <35% base saturation
Result of more intense weathering & leaching,
or weathering over a longer time.
Often redder in color than Alfisol due to
oxides.**

Global Distribution of Ultisols



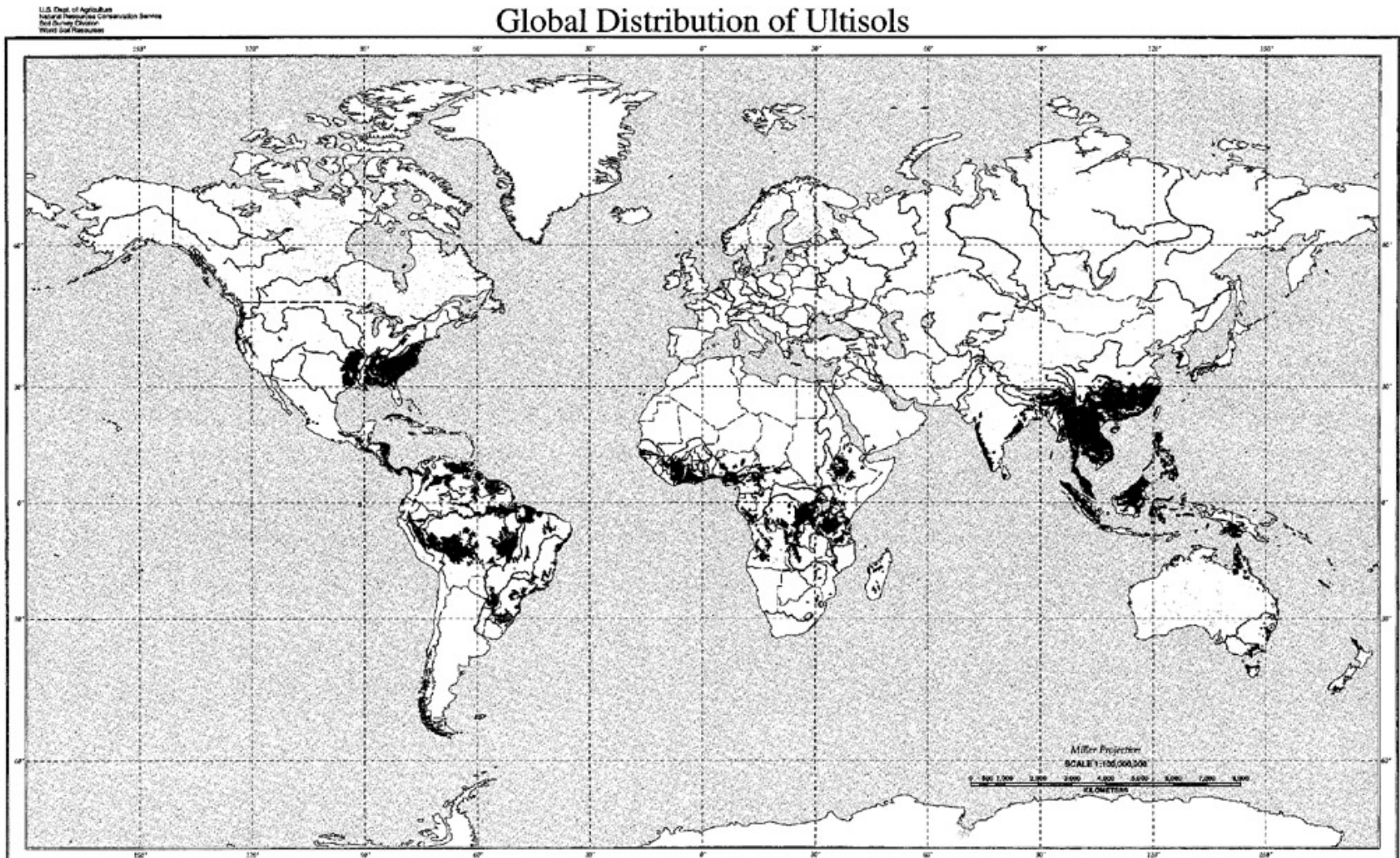
The region inside the black oval was
the continental interior of Pangaea 200
million years ago

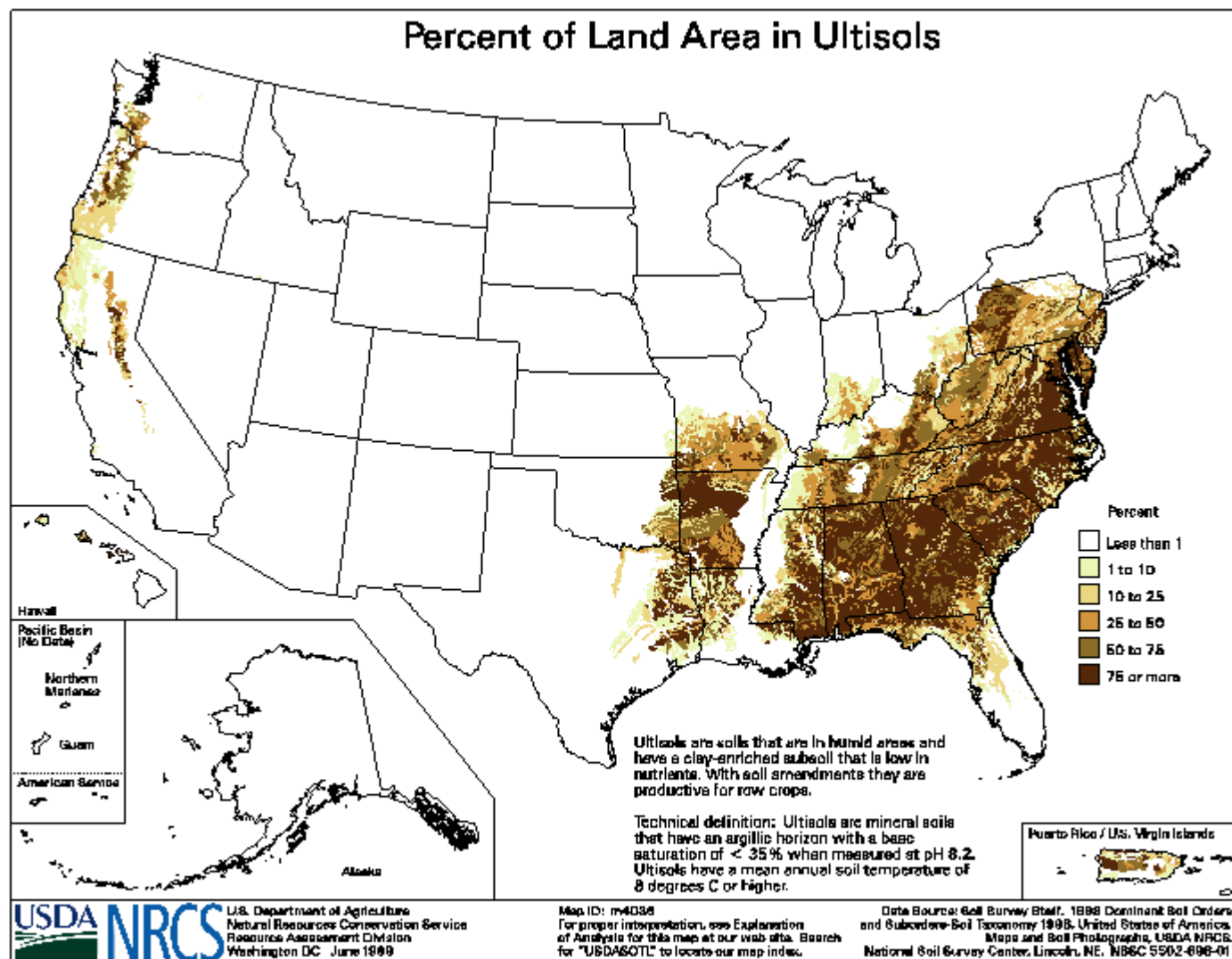
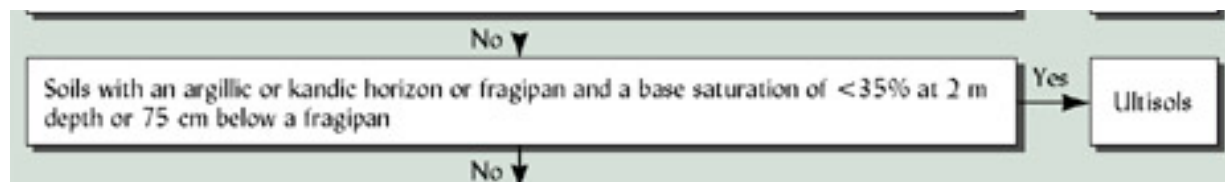


ULTISOLS

**Similar to Alfisol, but <35% base saturation
Result of more intense weathering & leaching,
or weathering over a longer time.
Often redder in color than Alfisol due to
oxides.**

Global Distribution of Ultisols





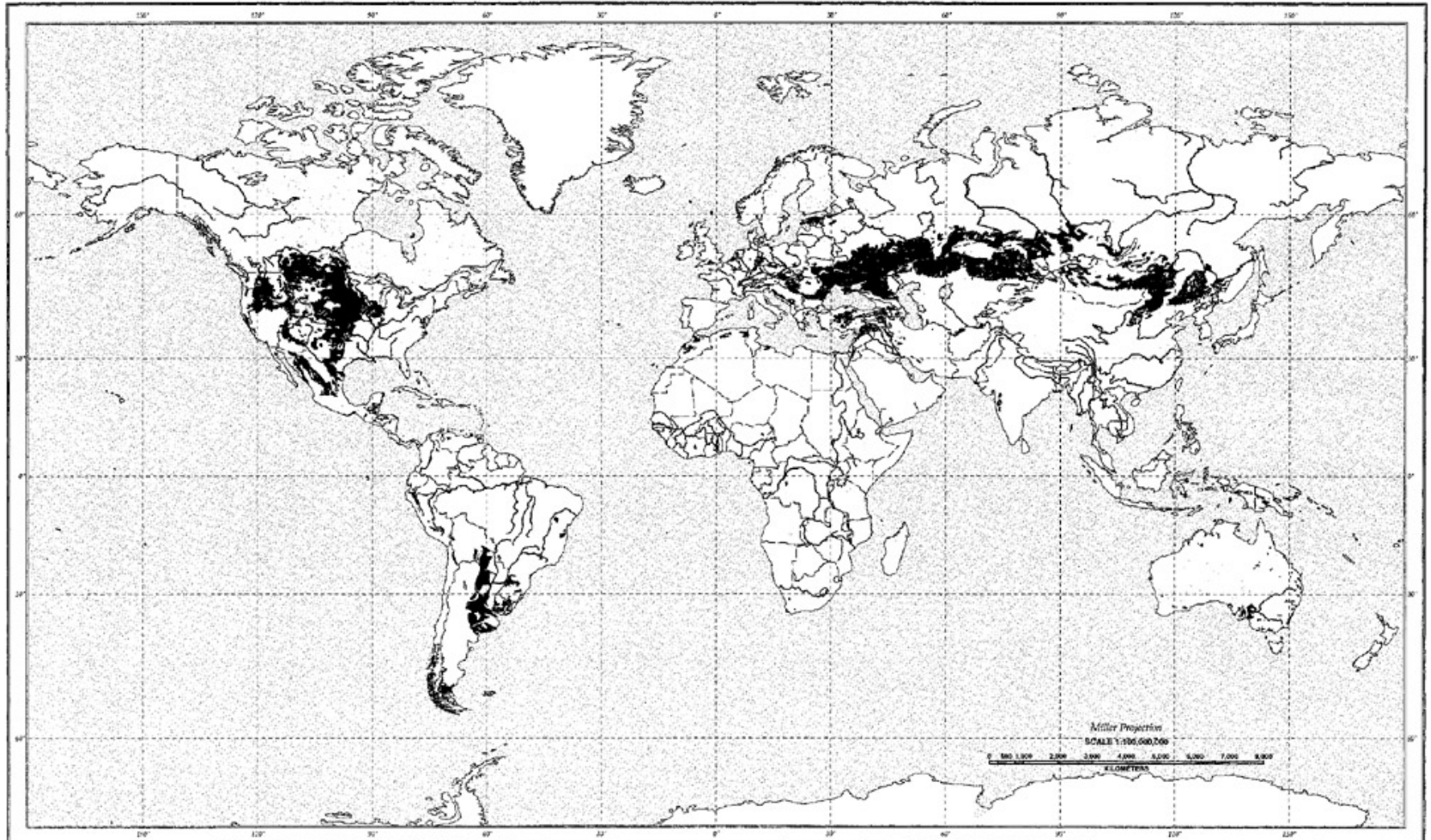
MOLLISOLS

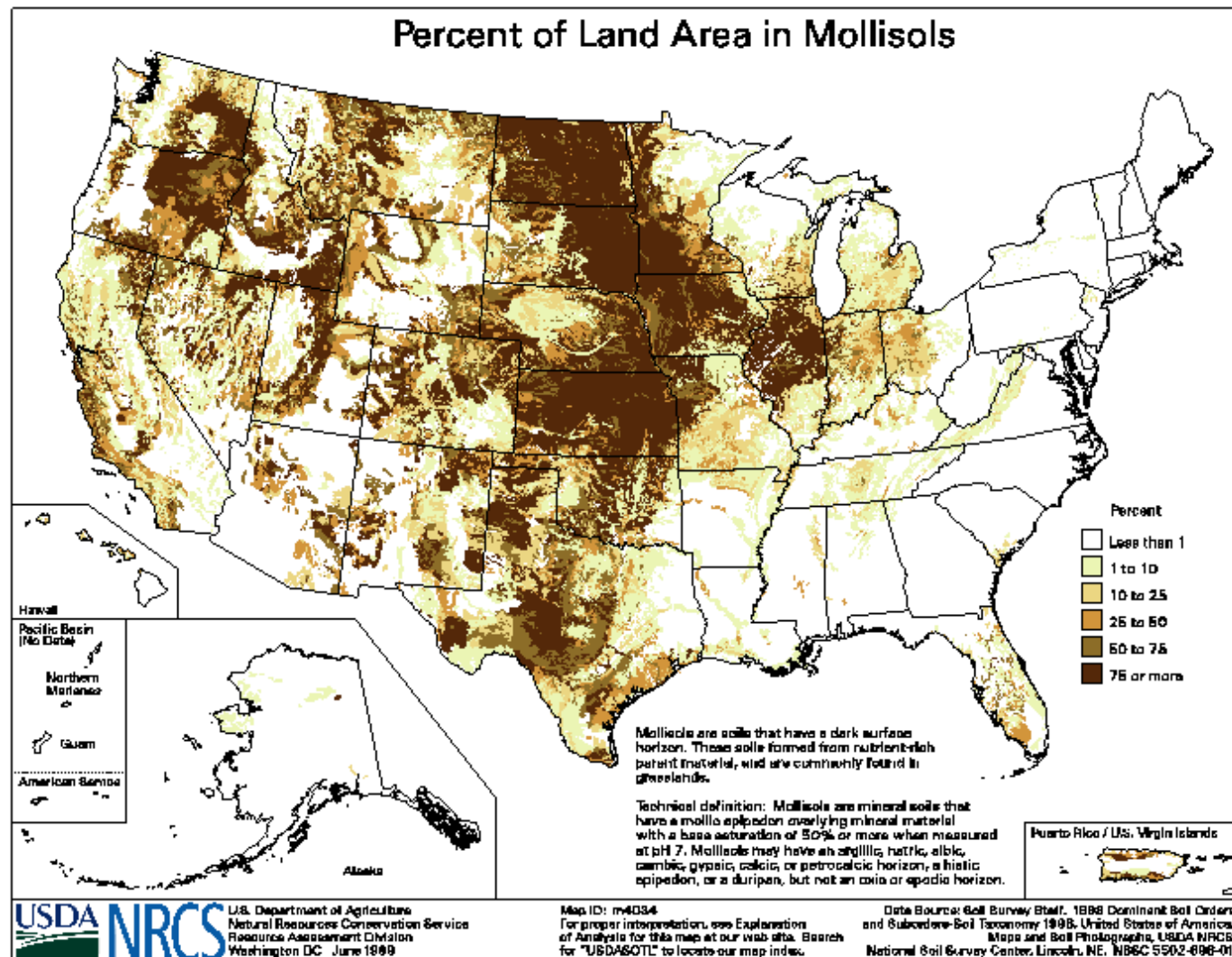
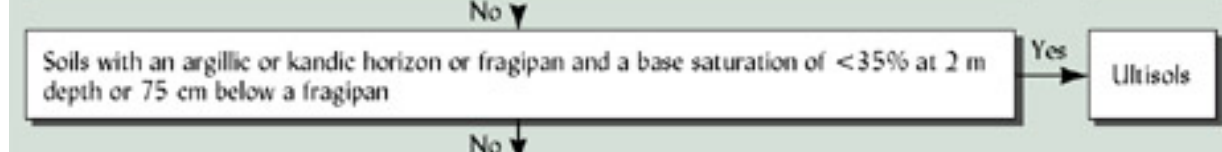
High surface accumulation of organic matter
Surface horizon is dark, high in bases, well-structured

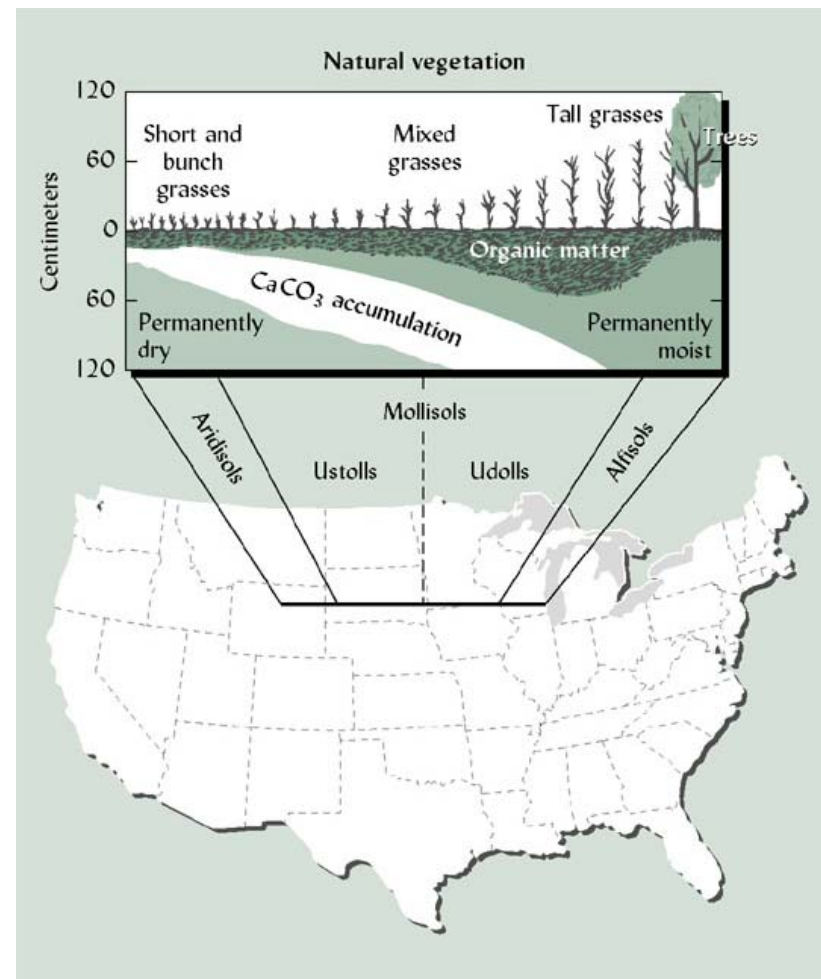
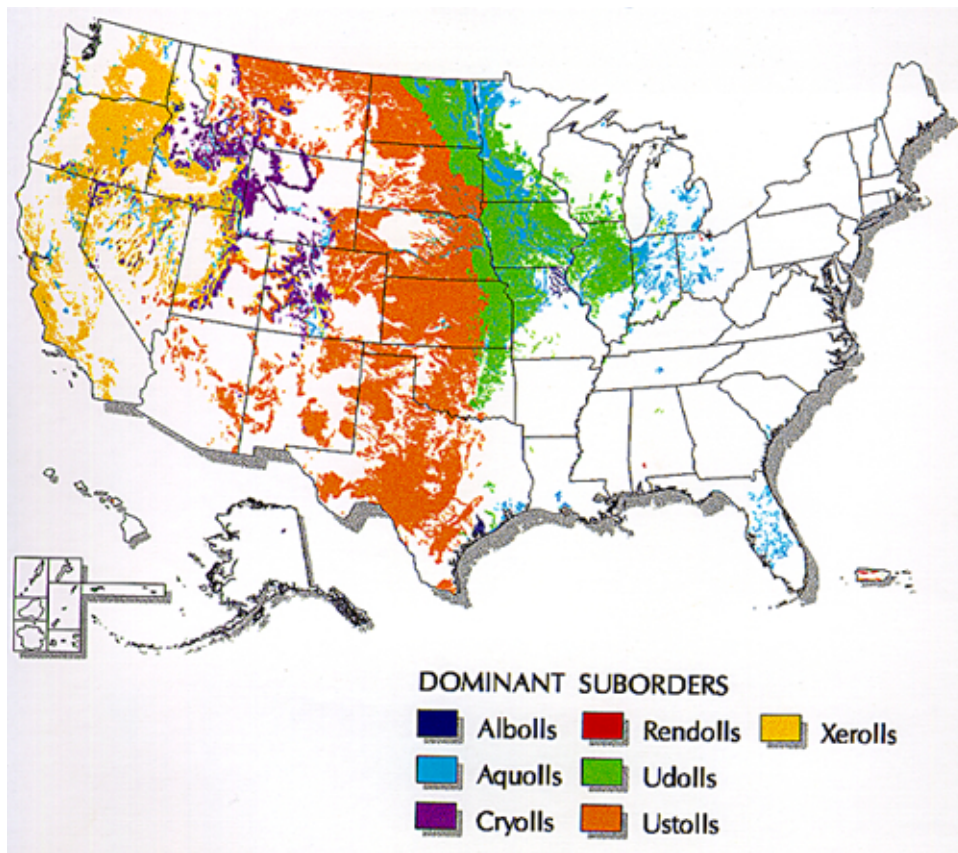
Dominant natural vegetation is prairie grasses

U.S. Dept. of Agriculture
Natural Resources Conservation Service
Soil Survey Center
World Soil Resources

Global Distribution of Mollisols







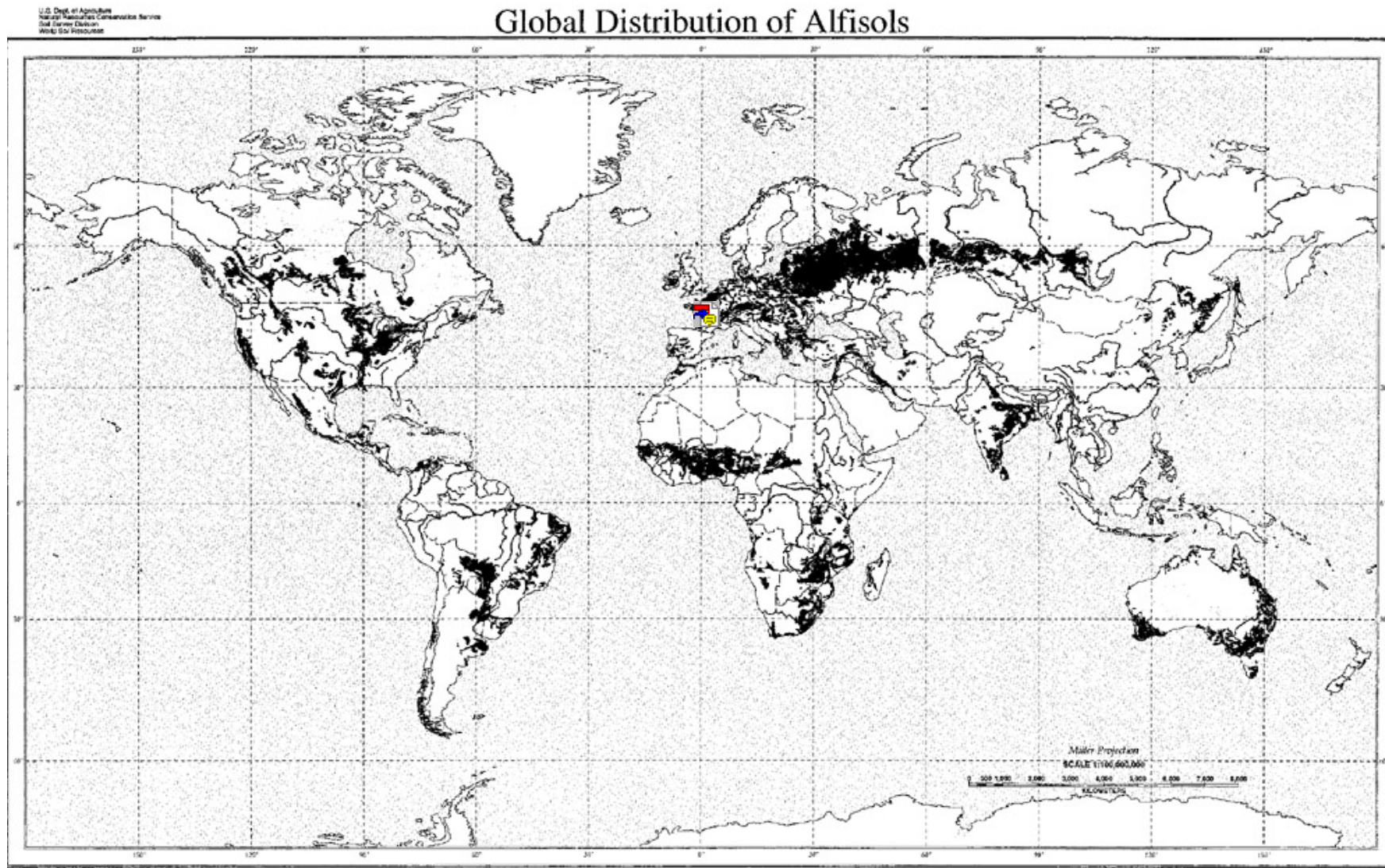
ALFISOLS

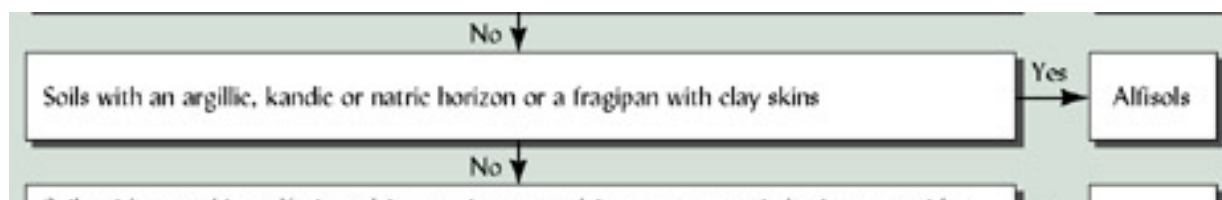
**Accumulations of translocated clay in subsoil
(B_t)**

At least 35% base saturation

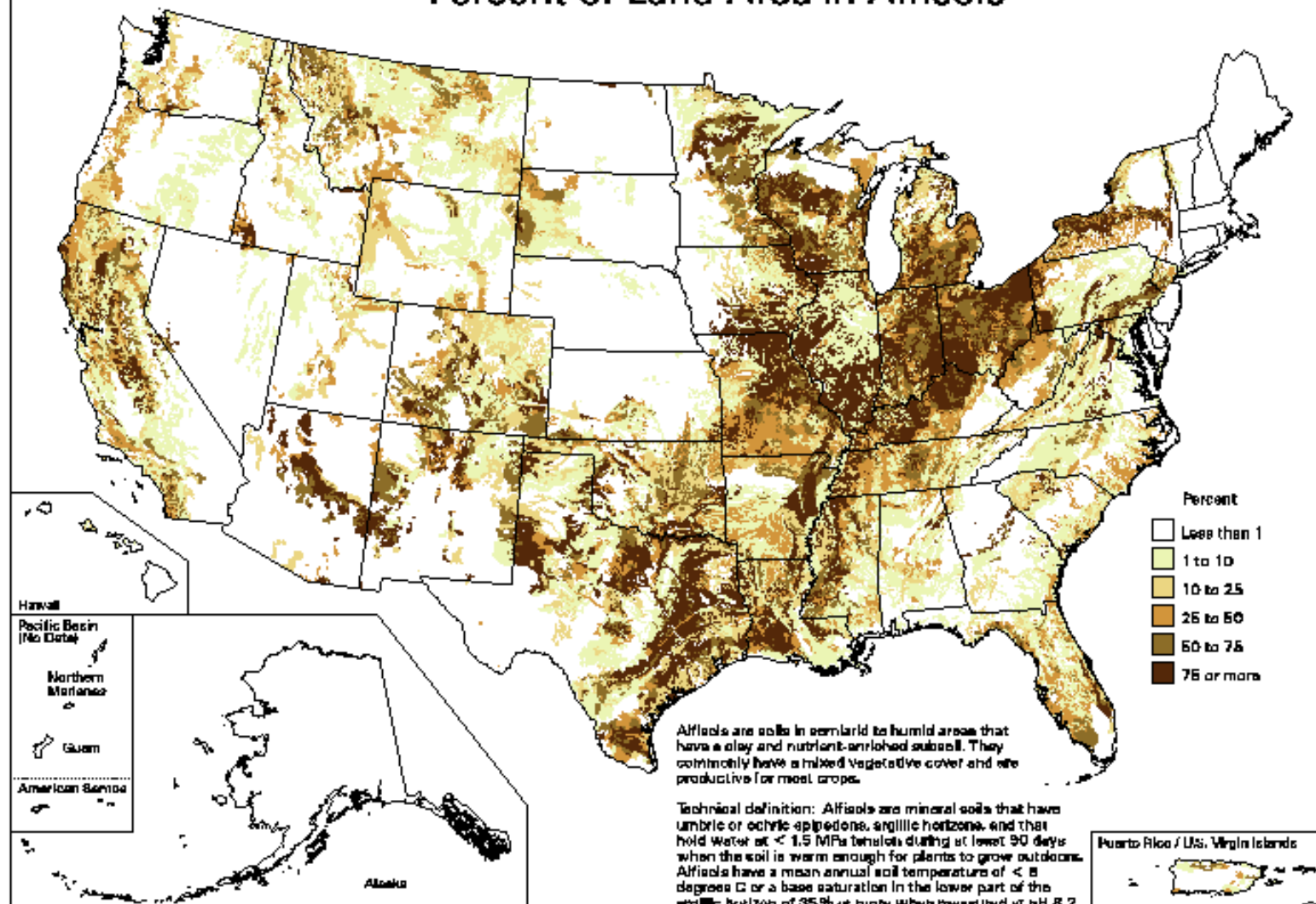
Little organic matter accumulation in surface

Global Distribution of Alfisols





Percent of Land Area in Alfisols



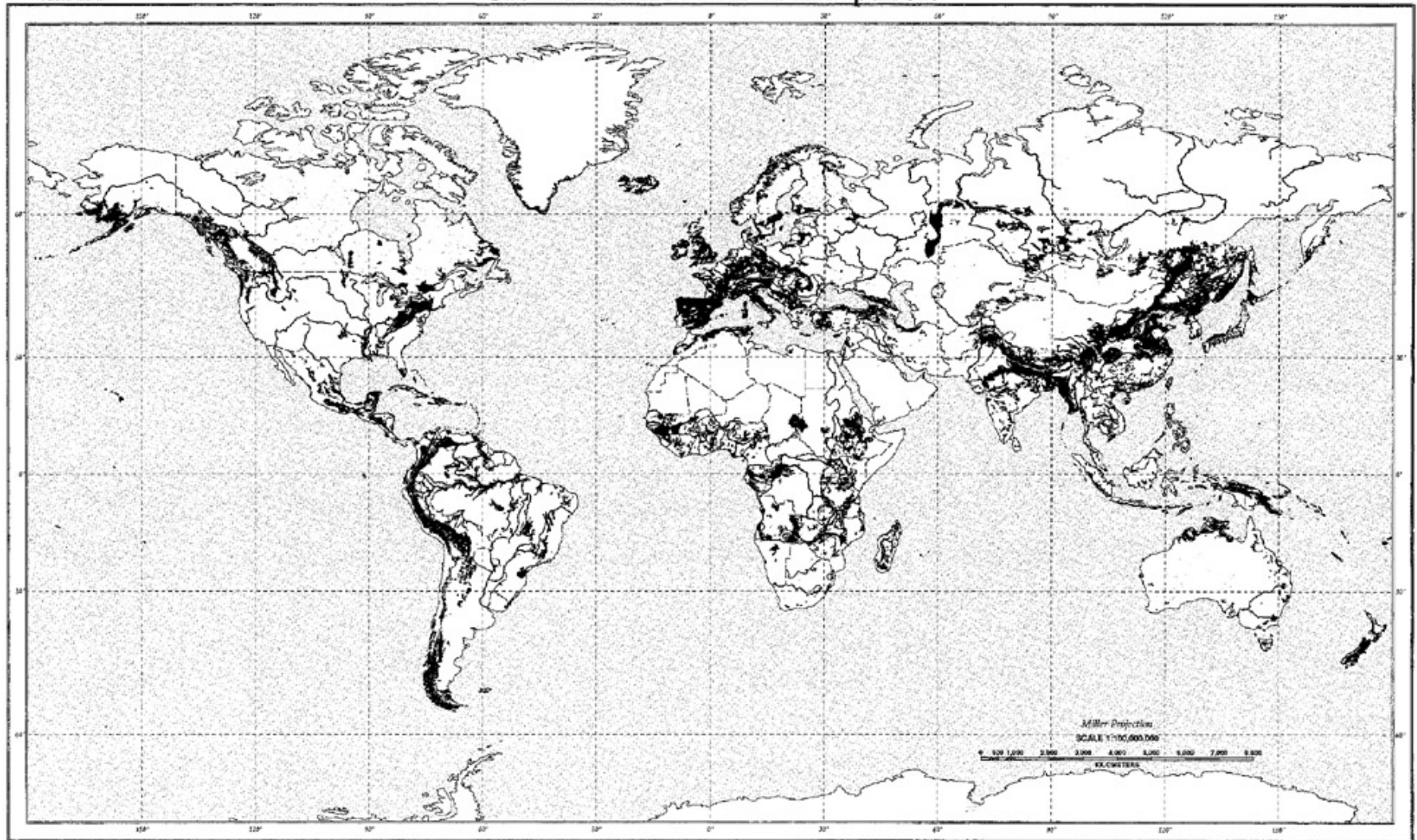
INCEPTISOLS

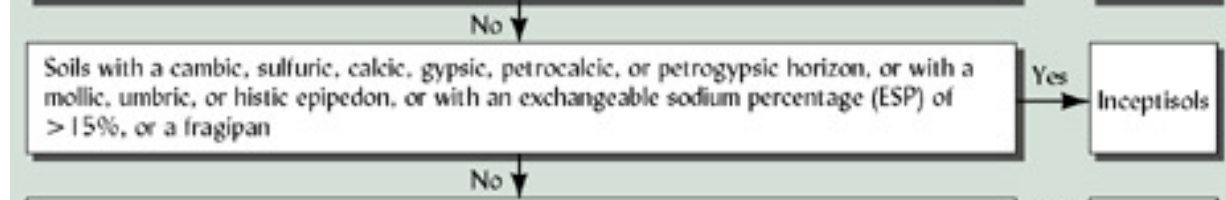
Horizons of alteration (cambic = structure or color)

Insufficient eluviation/illuviation to have an argillic horizon.

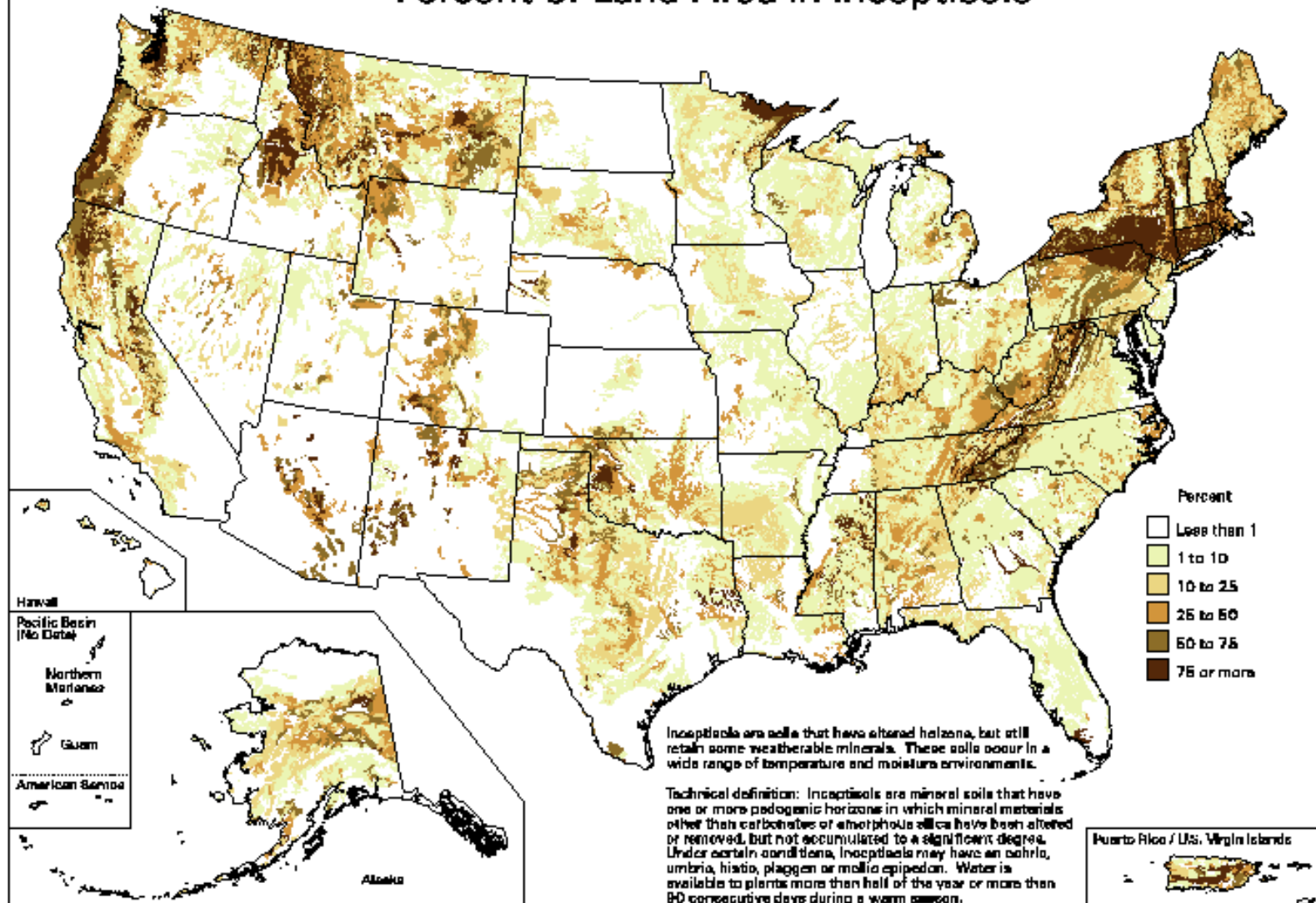
U.S. Dept. of Agriculture
Natural Resources Conservation Service
Soil Survey Center
World Soil Resources

Global Distribution of Inceptisols





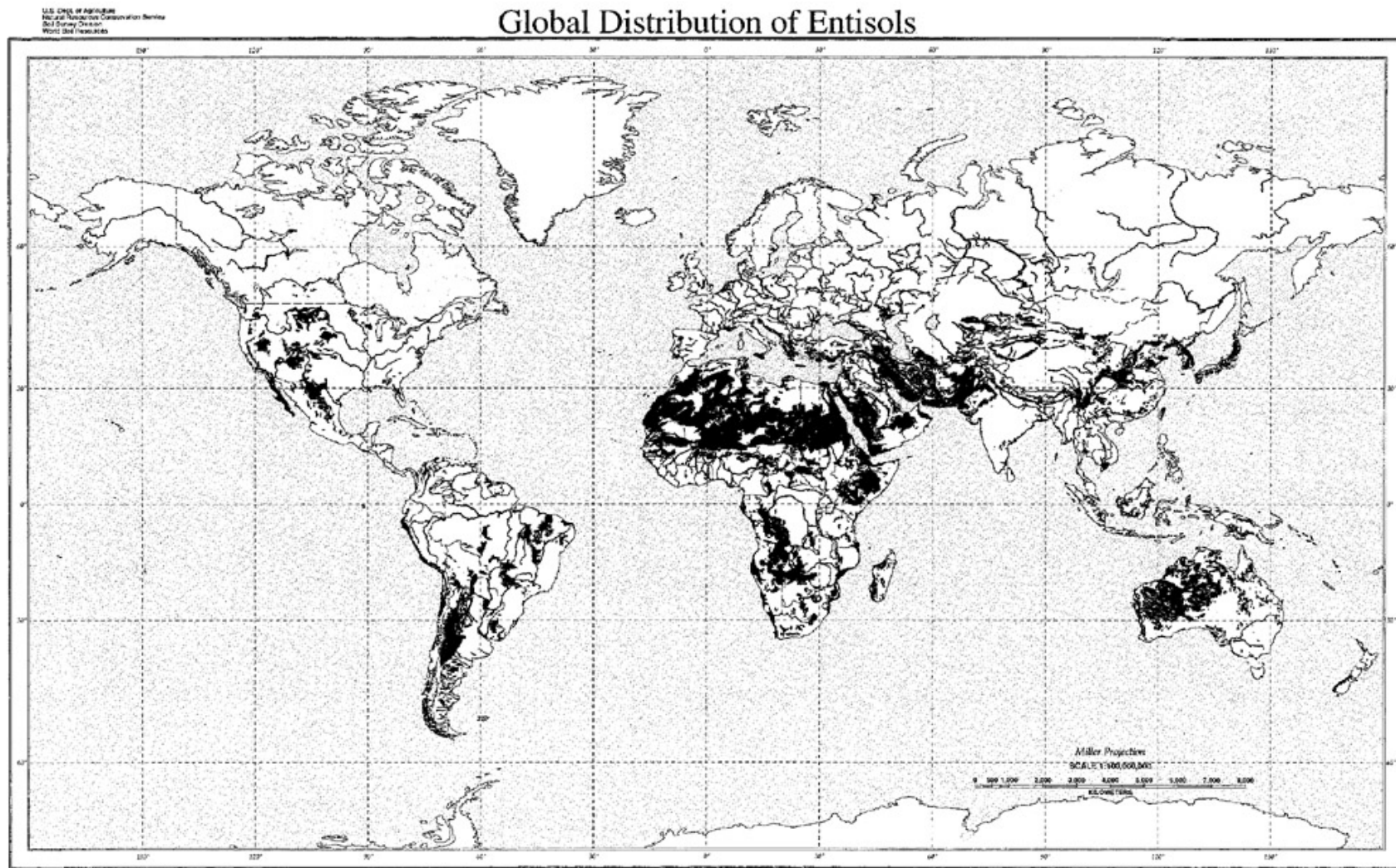
Percent of Land Area in Inceptisols



ENTISOLS

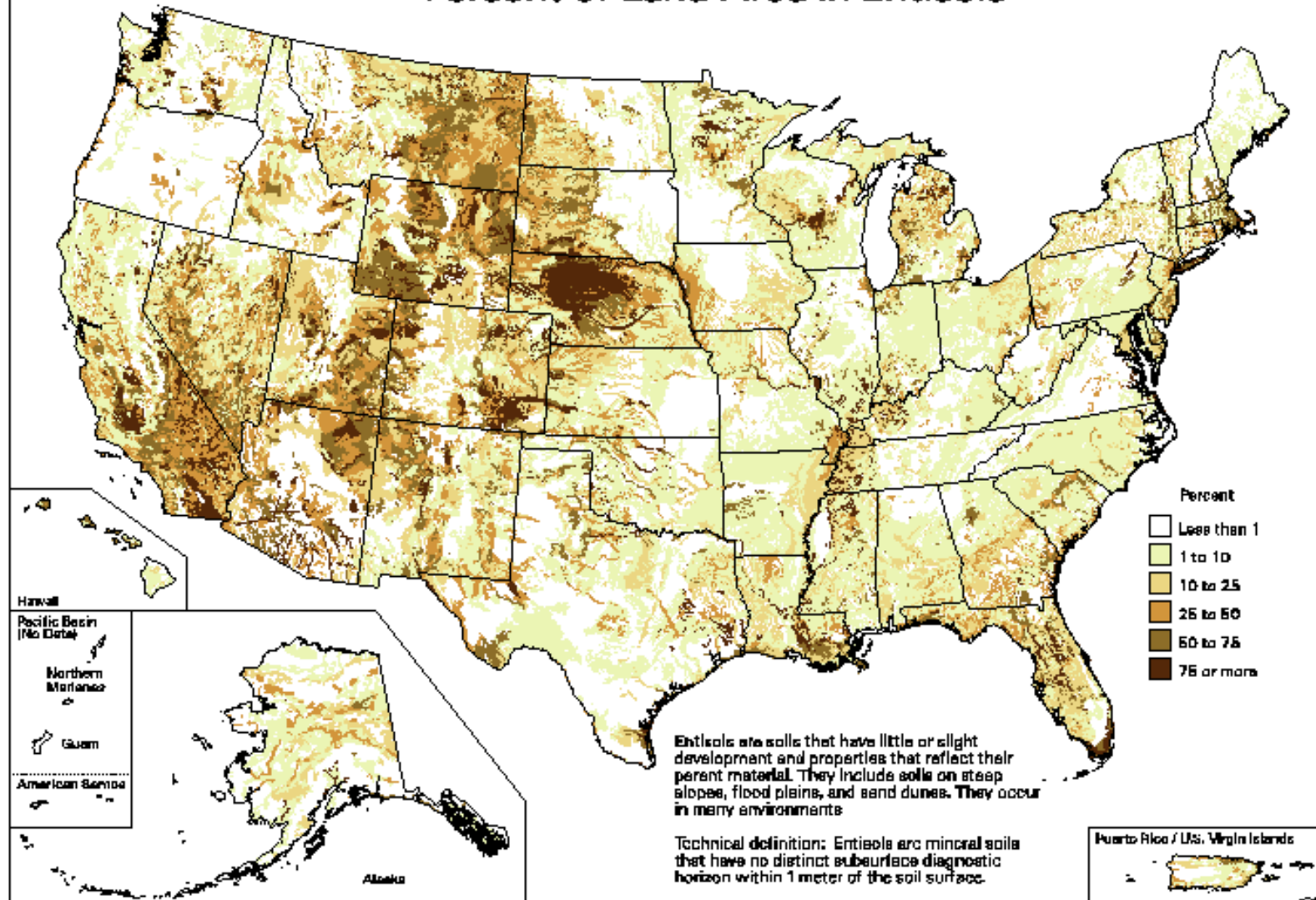
Do not shrink-swell
Not well-developed, young soils
Found in all climates, vegetation

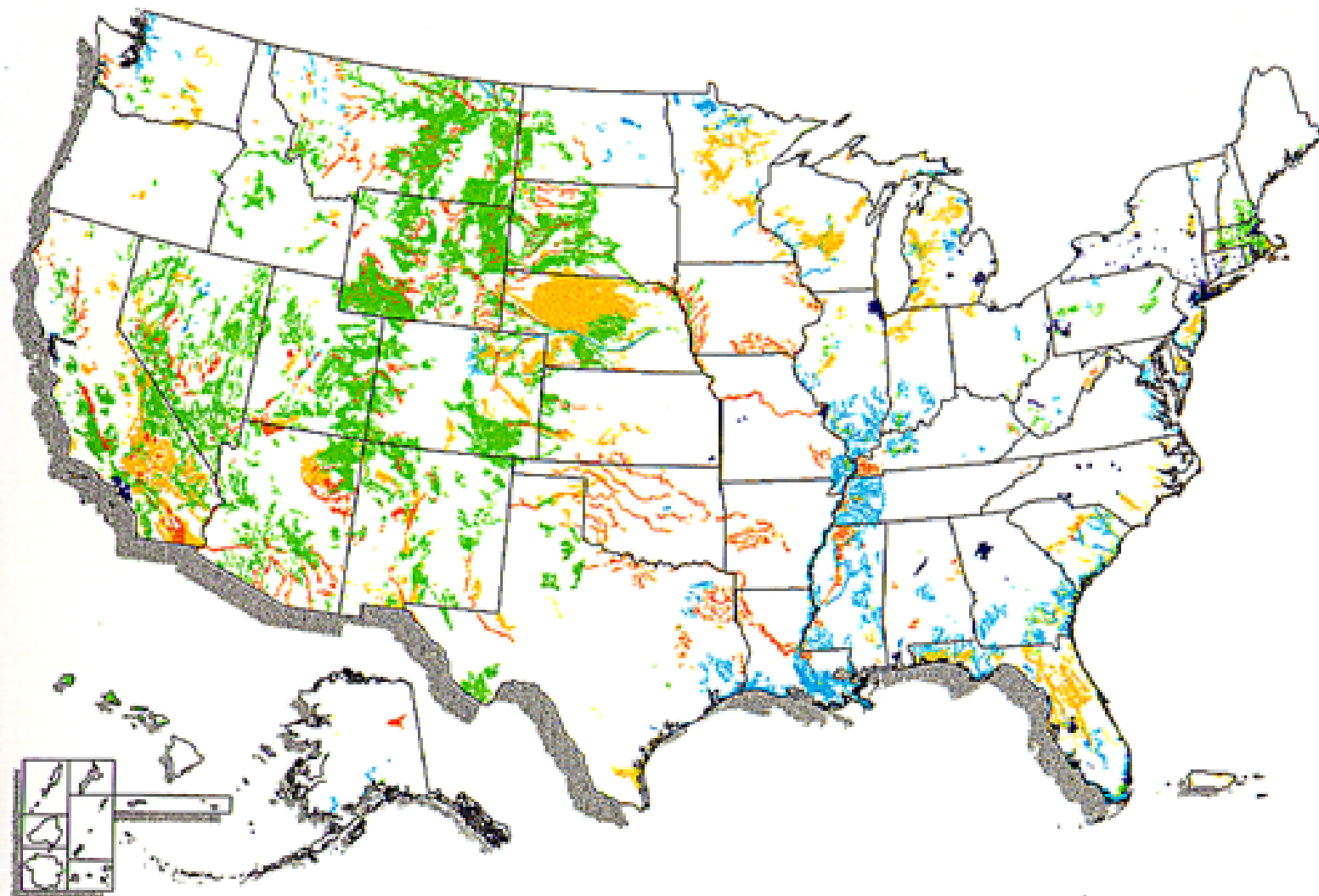
Global Distribution of Entisols





Percent of Land Area in Entisols





DOMINANT SUBORDERS

- | | |
|--|--|
|  Aquents |  Orthents |
|  Arenets |  Psammments |
|  Fluvents | |

TABLE 3.4 Approximate Land Areas of Different Soil Orders as Percentages of the Ice-Free Land in the World and in the United States

The major land use and natural fertility status of these soils are also given.

Soil order	Percent of ice-free land ^a		Major land uses	Natural fertility
	Global ^b	United States ^c		
Alfisols	9.65	14.51	Crops, forests, range	High
Andisols	0.70	1.74	Tundra, forests, crops	Moderate to high
Aridisols	12.10	8.78	Range, crops	Low to moderate
Entisols	16.29	12.16	Range, forest, crops, wetlands	Low to moderate
Gelisols	8.61	7.50	Tundra, bogs	Moderate
Histosols	1.18	1.28	Wetlands, crops	Moderate to high
Inceptisols	9.91	9.11	Forests, range, crops	Low to High
Mollisols	6.94	22.40	Crops, range, wetlands	High
Oxisols	7.56	<0.01	Forests, crops	Low
Spodosols	2.58	3.27	Forests, crops	Low
Ultisols	8.52	9.61	Forests, crops	Low to moderate
Vertisols	2.44	1.72	Crops, range, wetlands	High
Shifting sands or rock	14.07	7.81		

^a Total global ice-free land area = 129,788,231 km². Total U.S. land area estimated from STATSGO as 8,739,275 km².

^b Global areas calculated from FAO world database by USDA/NRCS Soil Survey Division, World Soils Resources, Washington, D.C.

^c U.S. areas calculated from State Soil Geographic Data Base (STATSGO) taxonomically amended in 1997 by USDA/NRCS Soil Survey Division, National Soil Survey Center, Lincoln, Nebraska.