



# **Geochemical and Mineralogical Maps for Soils of the Conterminous United States**

By David B. Smith, William F. Cannon, Laurel G. Woodruff, Federico Solano, and Karl J. Ellefsen

Open-File Report 2014–1082

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U.S. Geological Survey**

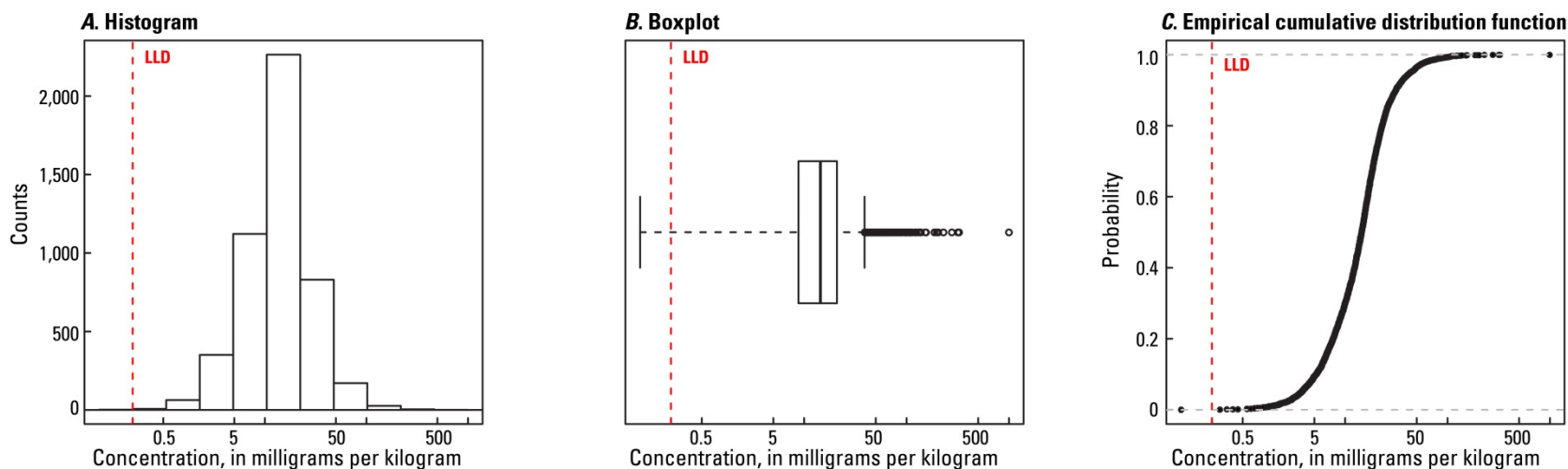
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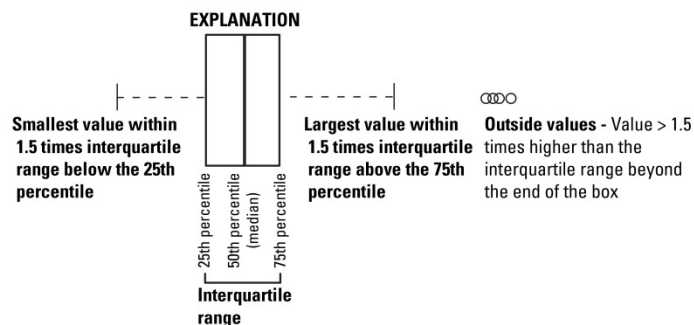
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These maps and statistical graphics were derived from data published in U.S. Geological Survey Data Series 801, downloadable from <http://pubs.usgs.gov/ds/801>.

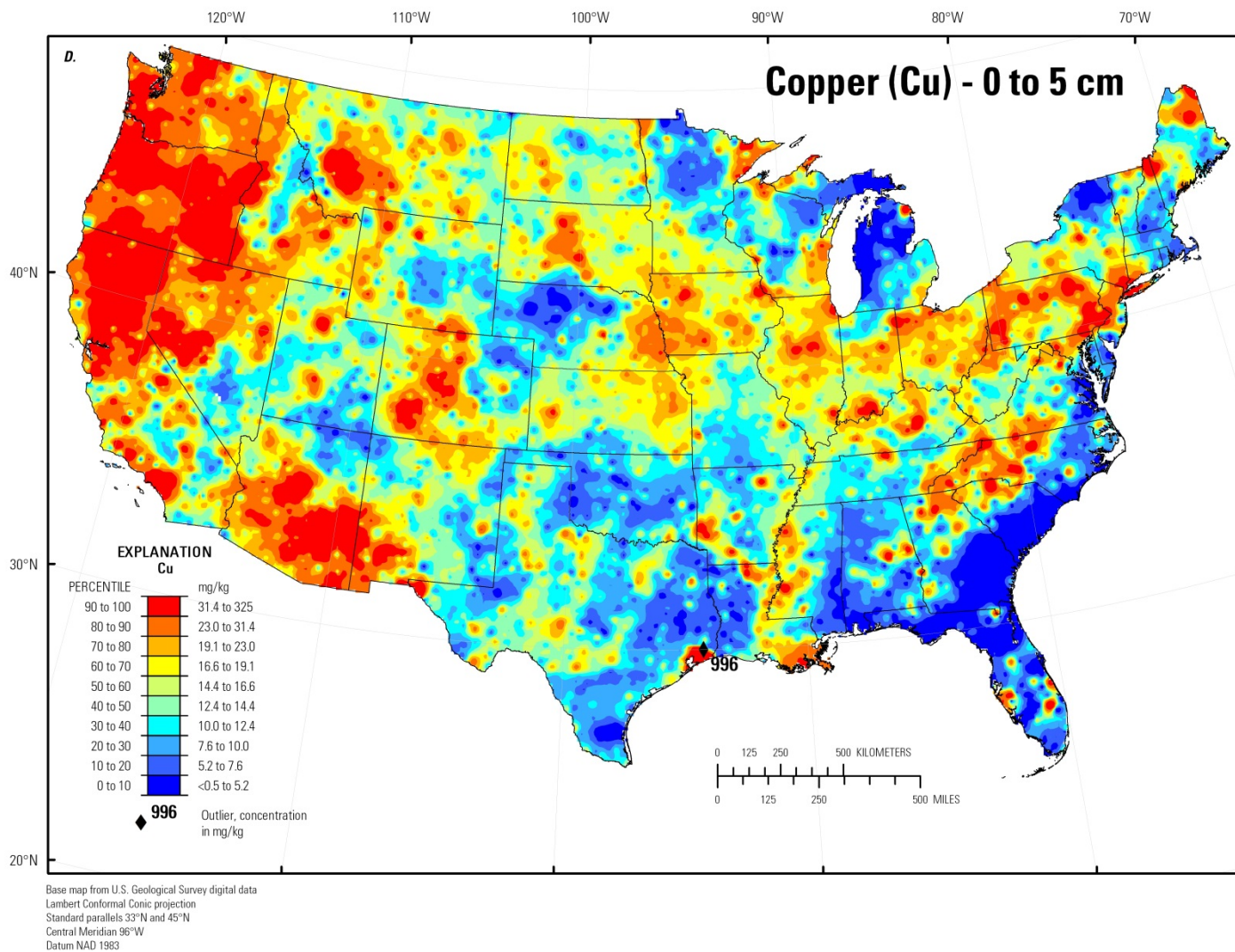
### Copper (Cu) in soil collected from a depth of 0 to 5 centimeters



Number of samples = 4,841  
 LLD = 0.5 milligrams per kilogram  
 Number below LLD = 2  
 Minimum = <0.5 milligrams per kilogram  
 5 percentile = 3.8 milligrams per kilogram  
 25 percentile = 8.8 milligrams per kilogram  
 50 percentile = 14.4 milligrams per kilogram  
 75 percentile = 20.9 milligrams per kilogram  
 95 percentile = 43.3 milligrams per kilogram  
 Maximum = 996 milligrams per kilogram  
 MAD = 8.75 milligrams per kilogram  
 Robust CV = 60.7 %

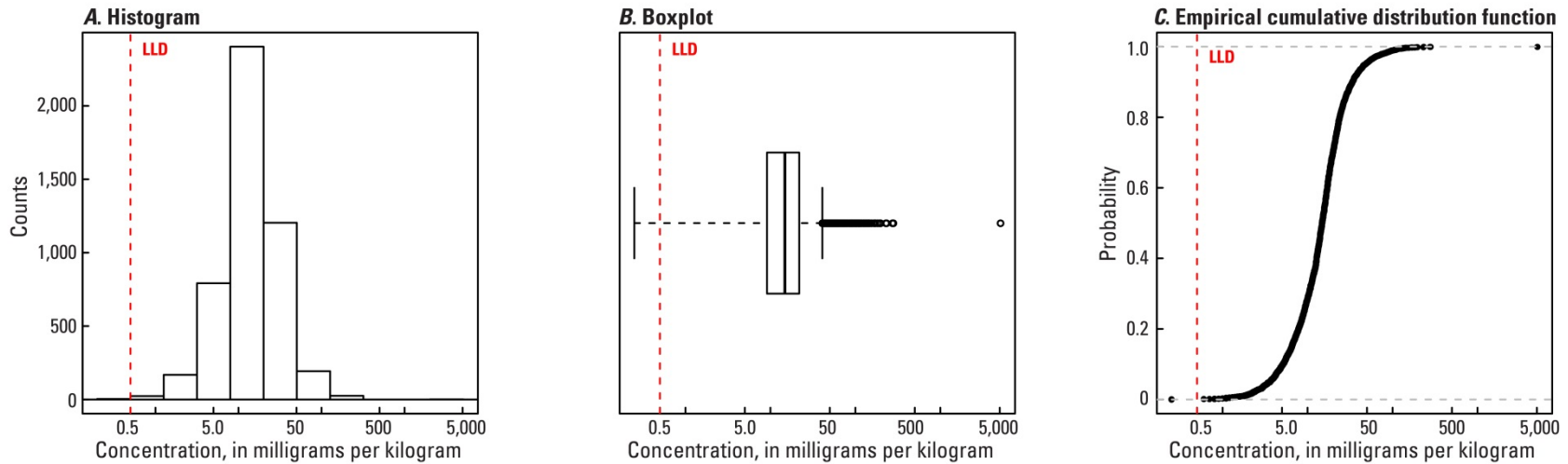


**Figure 44.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of copper (Cu) in surface soils collected from a depth of 0 to 5 centimeters, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram; cm, centimeters).

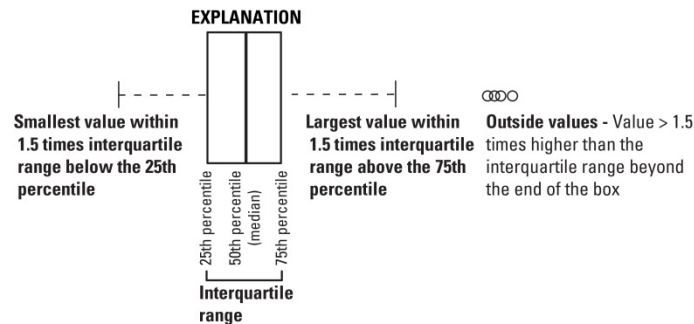


**Figure 44.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of copper (Cu) in surface soils collected from a depth of 0 to 5 centimeters, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram; cm, centimeters).—Continued

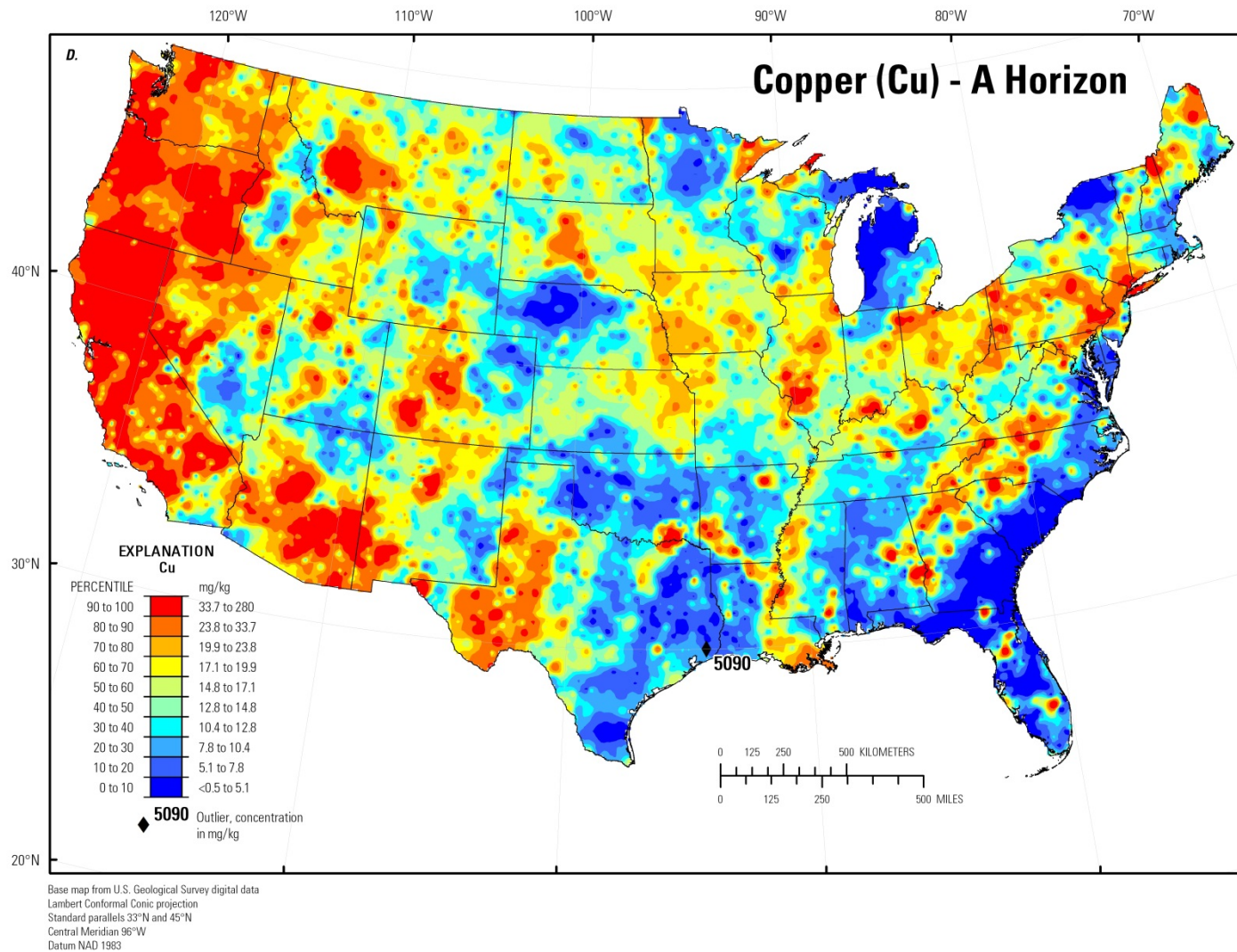
### Copper (Cu) in soil A horizon



Number of samples = 4,813  
 LLD = 0.5 milligrams per kilogram  
 Number below LLD = 4  
 Minimum = <0.5 milligrams per kilogram  
 5 percentile = 3.6 milligrams per kilogram  
 25 percentile = 9.1 milligrams per kilogram  
 50 percentile = 14.8 milligrams per kilogram  
 75 percentile = 21.8 milligrams per kilogram  
 95 percentile = 47.7 milligrams per kilogram  
 Maximum = 5,090 milligrams per kilogram  
 MAD = 9.19 milligrams per kilogram  
 Robust CV = 62.1 %

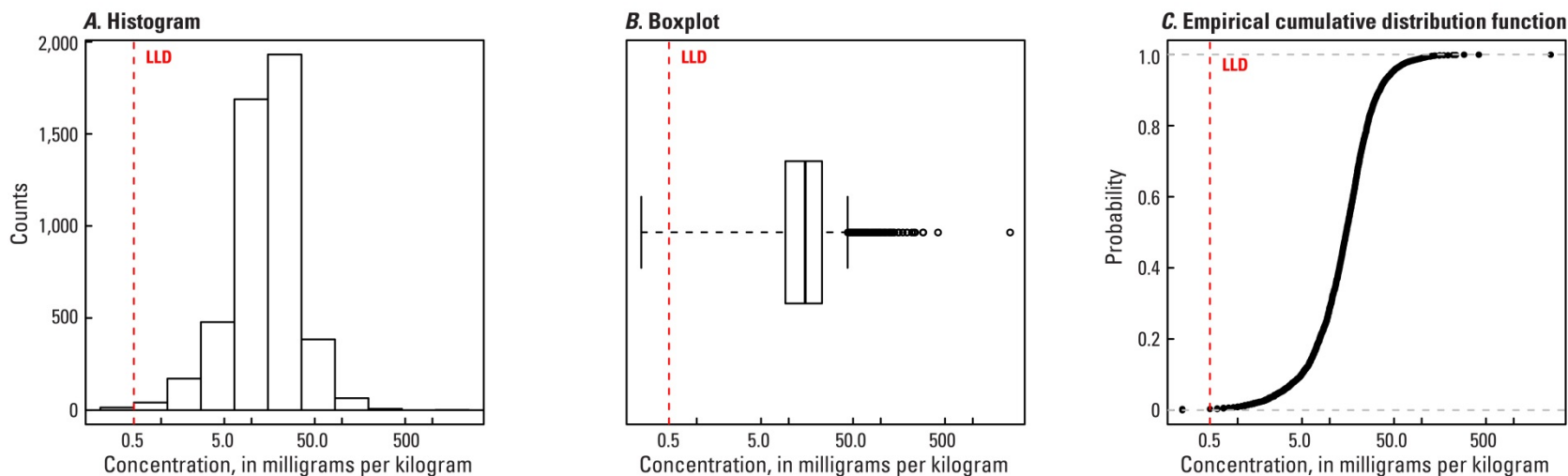


**Figure 45.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of copper (Cu) in the soil A horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).

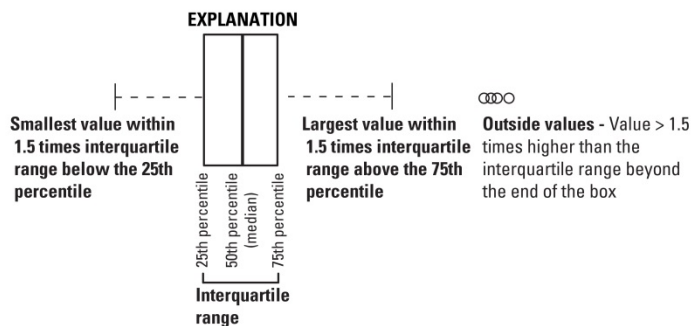


**Figure 45.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of copper (Cu) in the soil A horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).—Continued

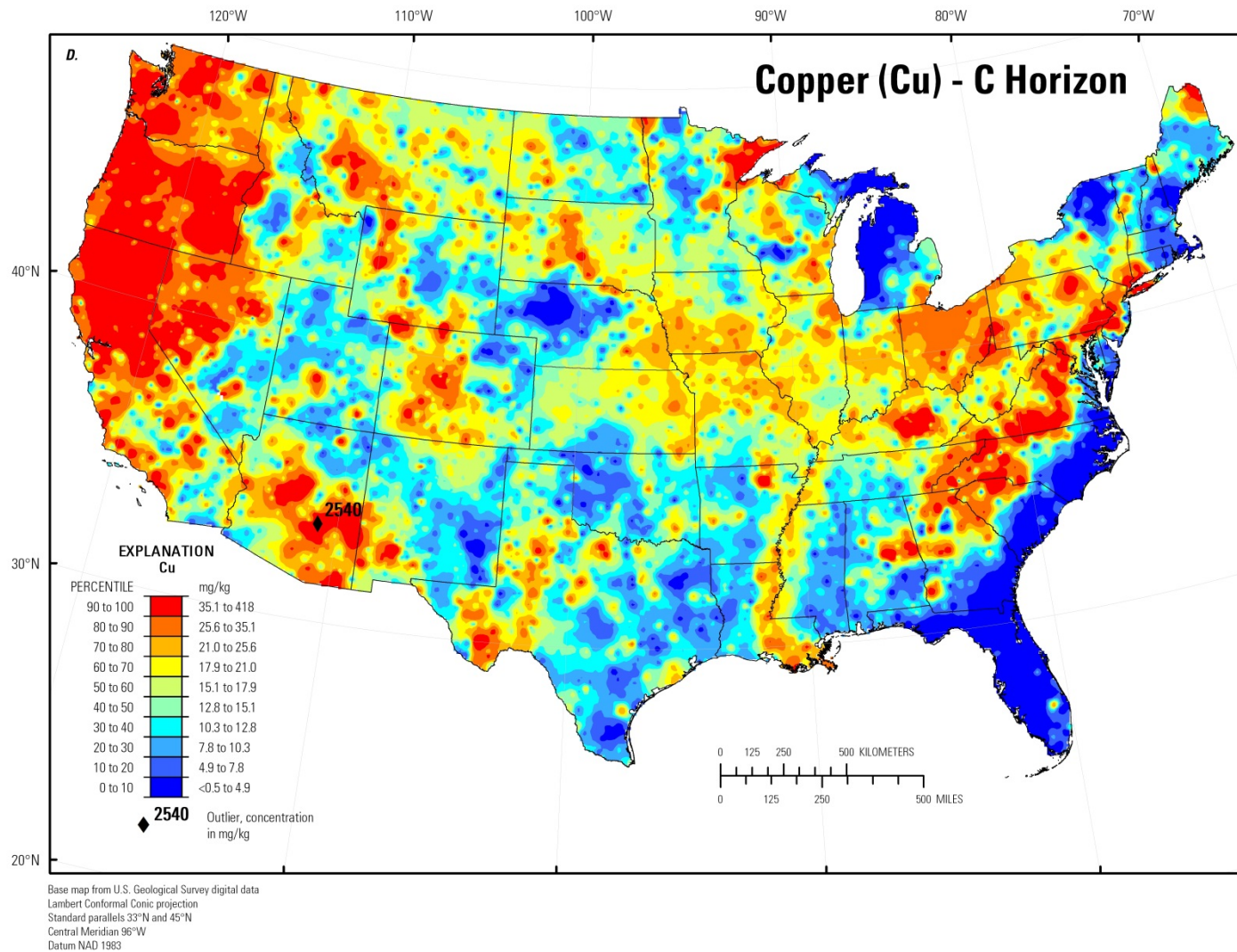
## Copper (Cu) in soil C horizon



Number of samples = 4,780  
 LLD = 0.5 milligrams per kilogram  
 Number below LLD = 14  
 Minimum = <0.5 milligrams per kilogram  
 5 percentile = 2.9 milligrams per kilogram  
 25 percentile = 9.2 milligrams per kilogram  
 50 percentile = 15.1 milligrams per kilogram  
 75 percentile = 23.0 milligrams per kilogram  
 95 percentile = 47.7 milligrams per kilogram  
 Maximum = 2,540 milligrams per kilogram  
 MAD = 9.93 milligrams per kilogram  
 Robust CV = 65.8 %



**Figure 46.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of copper (Cu) in the soil C horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).



**Figure 46.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of copper (Cu) in the soil C horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).—Continued