



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

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Open-File Report 2014–1082

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U.S. Geological Survey**

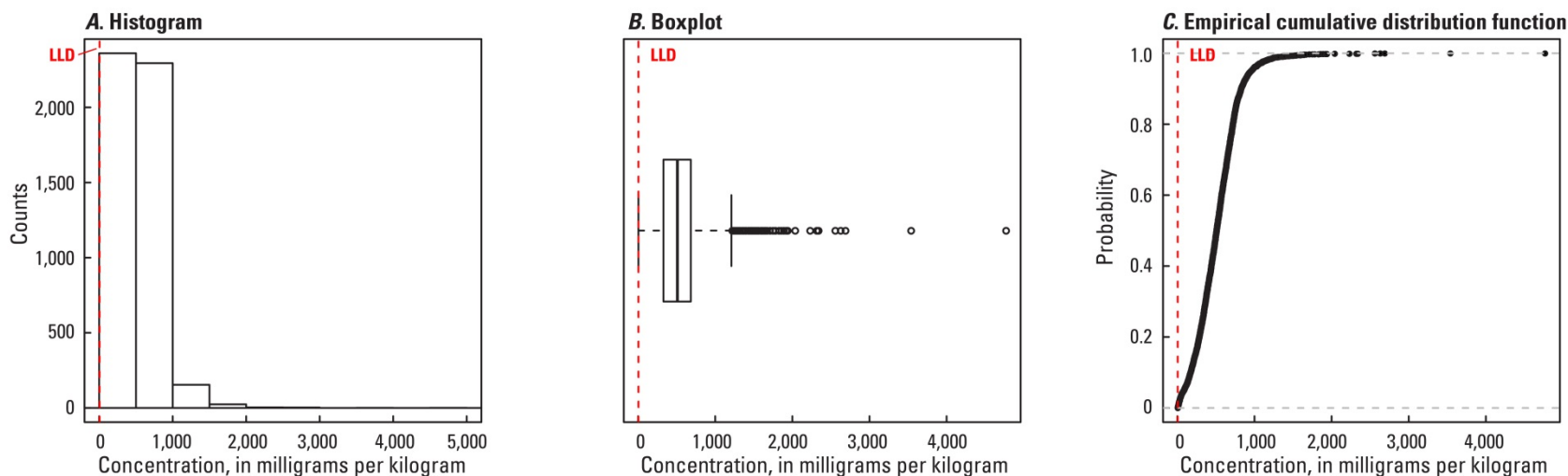
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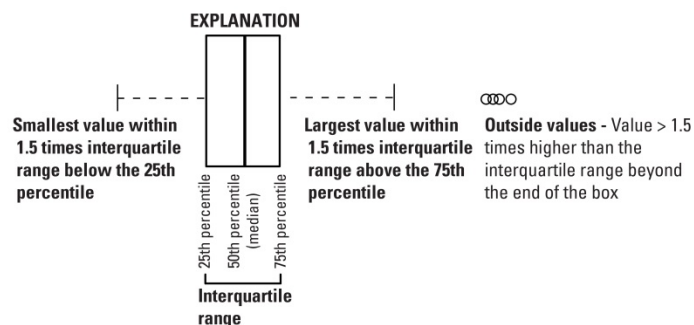
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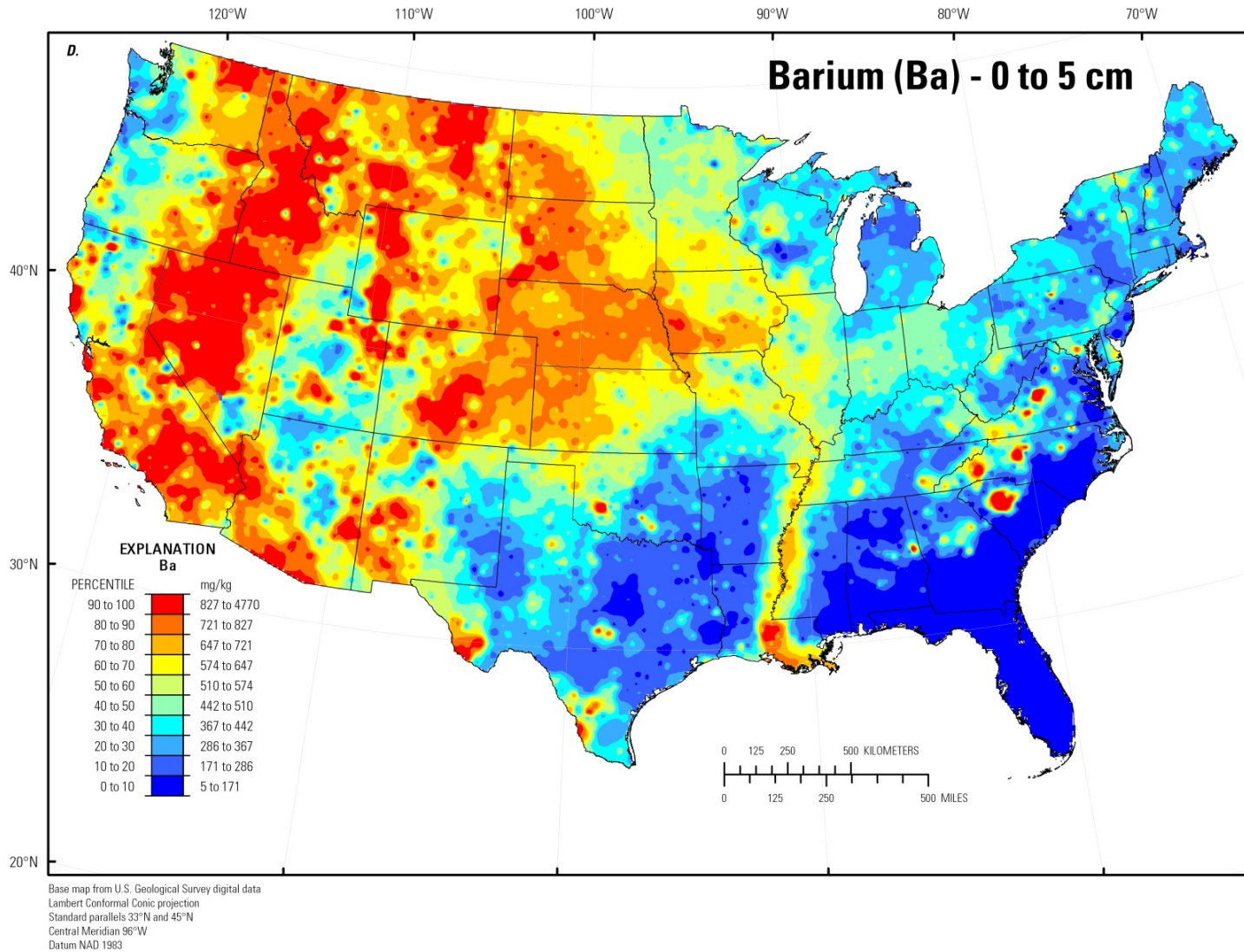
## Barium (Ba) in soil collected from a depth of 0 to 5 centimeters



Number of samples = 4,841  
 LLD = 5 milligrams per kilogram  
 Number below LLD = 0  
 Minimum = 5 milligrams per kilogram  
 5 percentile = 86 milligrams per kilogram  
 25 percentile = 329 milligrams per kilogram  
 50 percentile = 510 milligrams per kilogram  
 75 percentile = 683 milligrams per kilogram  
 95 percentile = 956 milligrams per kilogram  
 Maximum = 4,770 milligrams per kilogram  
 MAD = 262 milligrams per kilogram  
 Robust CV = 51.5 %

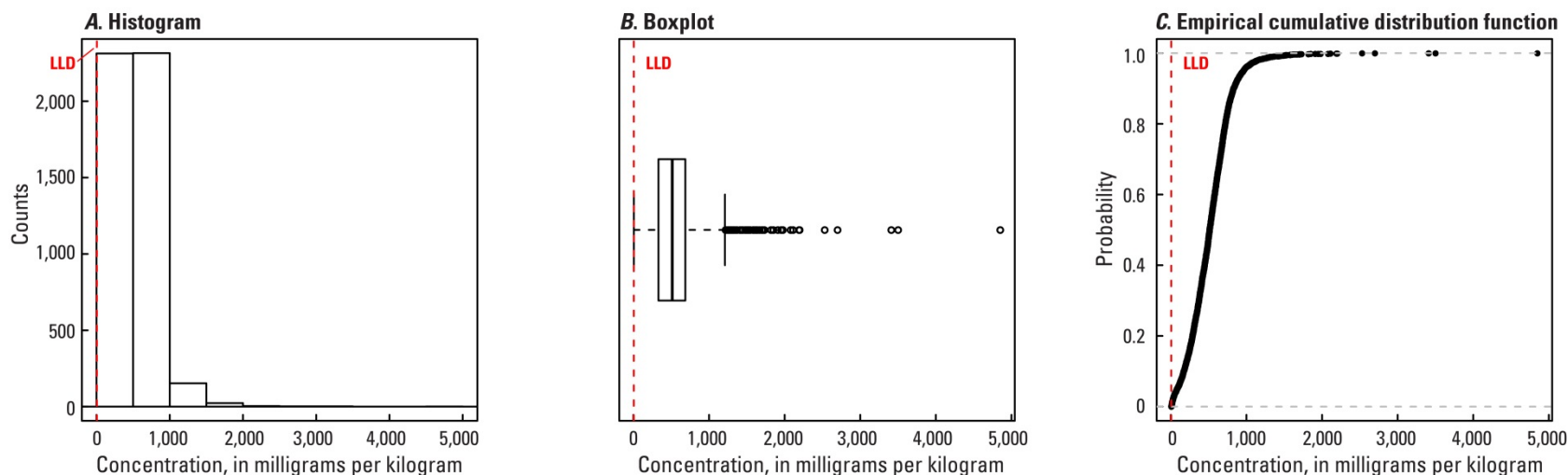


**Figure 11.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of barium (Ba) in surface soils collected from a depth of 0 to 5 centimeters, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram; cm, centimeters).

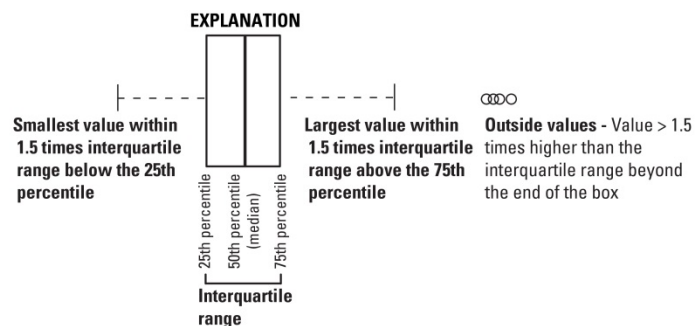


**Figure 11.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of barium (Ba) in surface soils collected from a depth of 0 to 5 centimeters, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram; cm, centimeters).—Continued

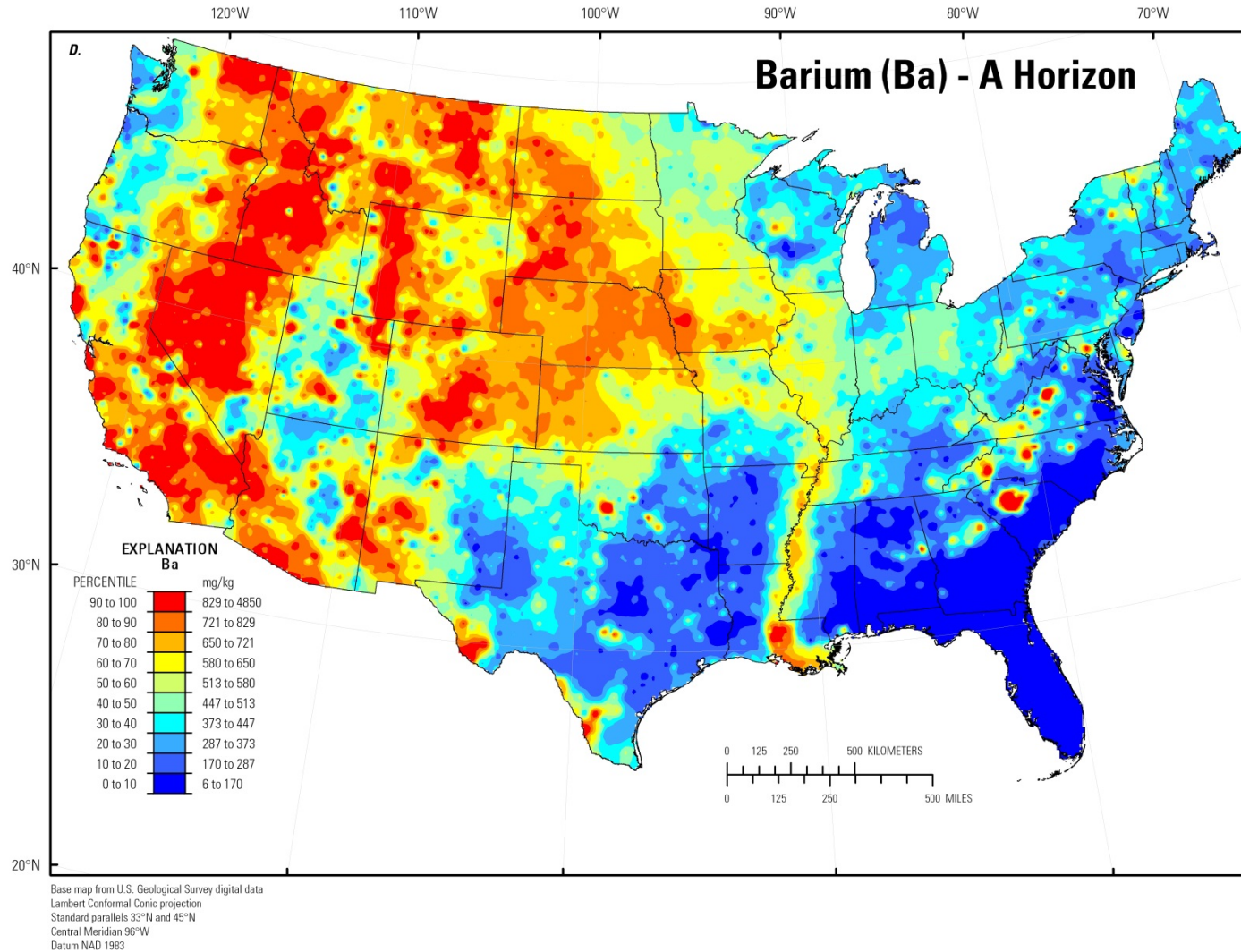
## Barium (Ba) in soil A horizon



Number of samples = 4,813  
 LLD = 5 milligrams per kilogram  
 Number below LLD = 0  
 Minimum = 6 milligrams per kilogram  
 5 percentile = 83 milligrams per kilogram  
 25 percentile = 331 milligrams per kilogram  
 50 percentile = 513 milligrams per kilogram  
 75 percentile = 686 milligrams per kilogram  
 95 percentile = 959 milligrams per kilogram  
 Maximum = 4,850 milligrams per kilogram  
 MAD = 261 milligrams per kilogram  
 Robust CV = 50.9 %

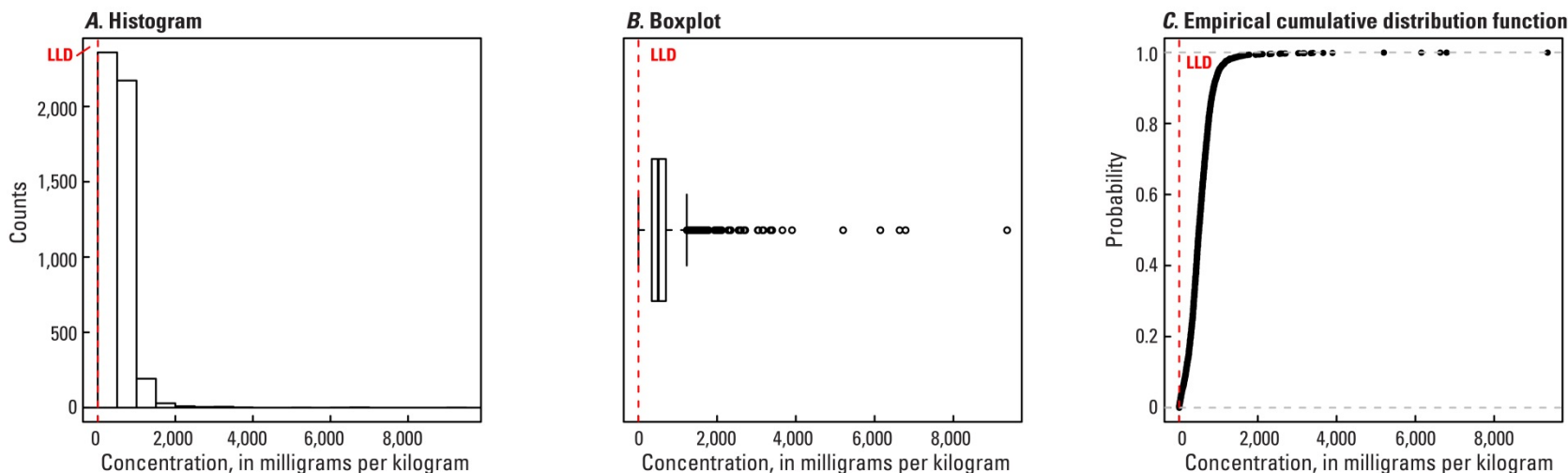


**Figure 12.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of barium (Ba) in the soil A horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).

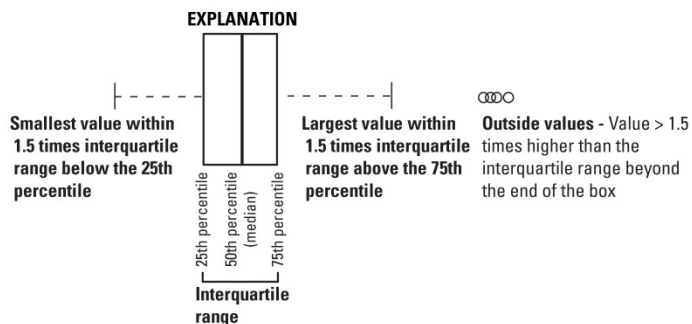


**Figure 12.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of barium (Ba) in the soil A horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).—Continued

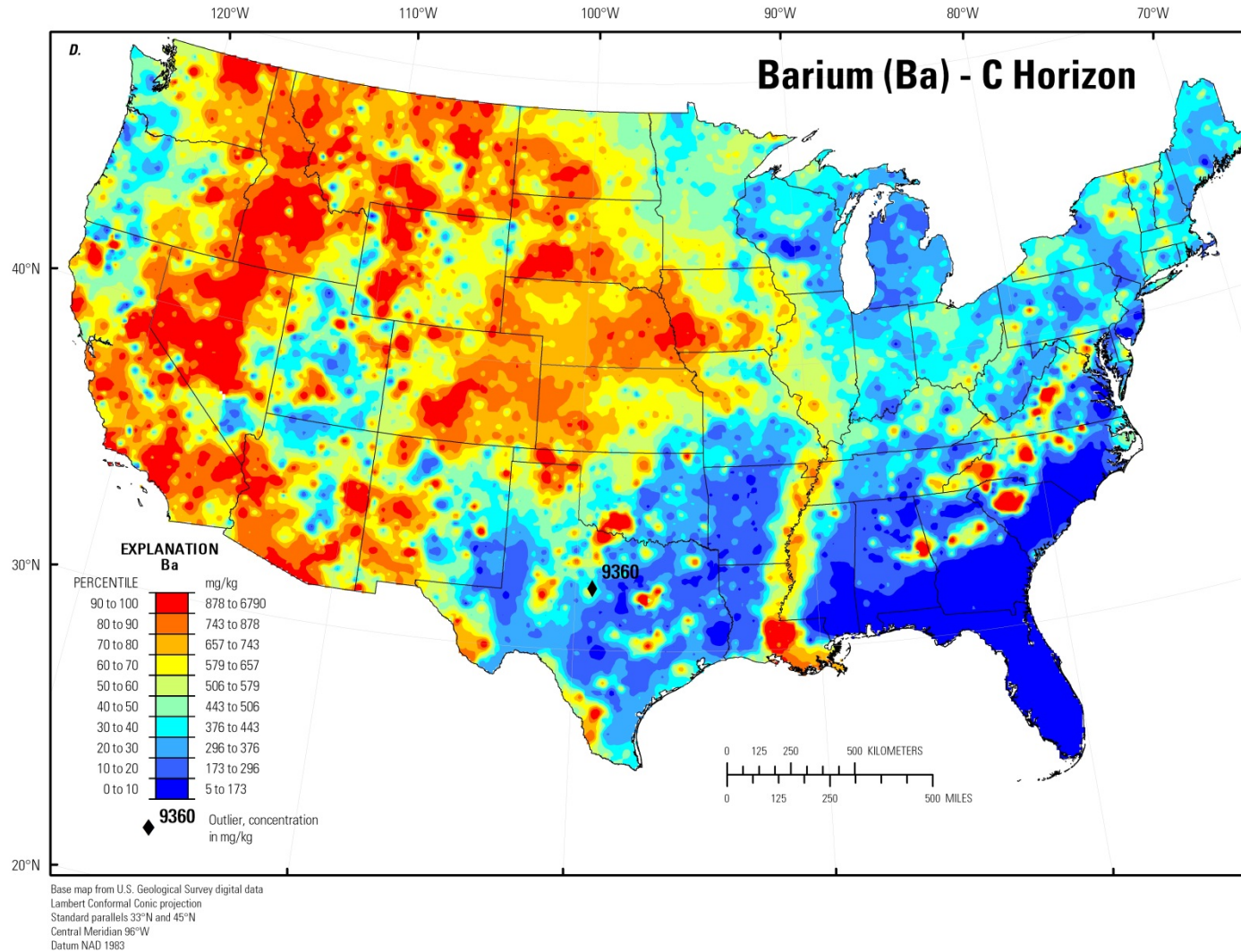
## Barium (Ba) in soil C horizon



Number of samples = 4,780  
 LLD = 5 milligrams per kilogram  
 Number below LLD = 0  
 Minimum = 5 milligrams per kilogram  
 5 percentile = 81 milligrams per kilogram  
 25 percentile = 343 milligrams per kilogram  
 50 percentile = 506 milligrams per kilogram  
 75 percentile = 701 milligrams per kilogram  
 95 percentile = 1,020 milligrams per kilogram  
 Maximum = 9,360 milligrams per kilogram  
 MAD = 265 milligrams per kilogram  
 Robust CV = 52.4 %



**Figure 13.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of barium (Ba) 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 13.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of barium (Ba) 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