



# **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**

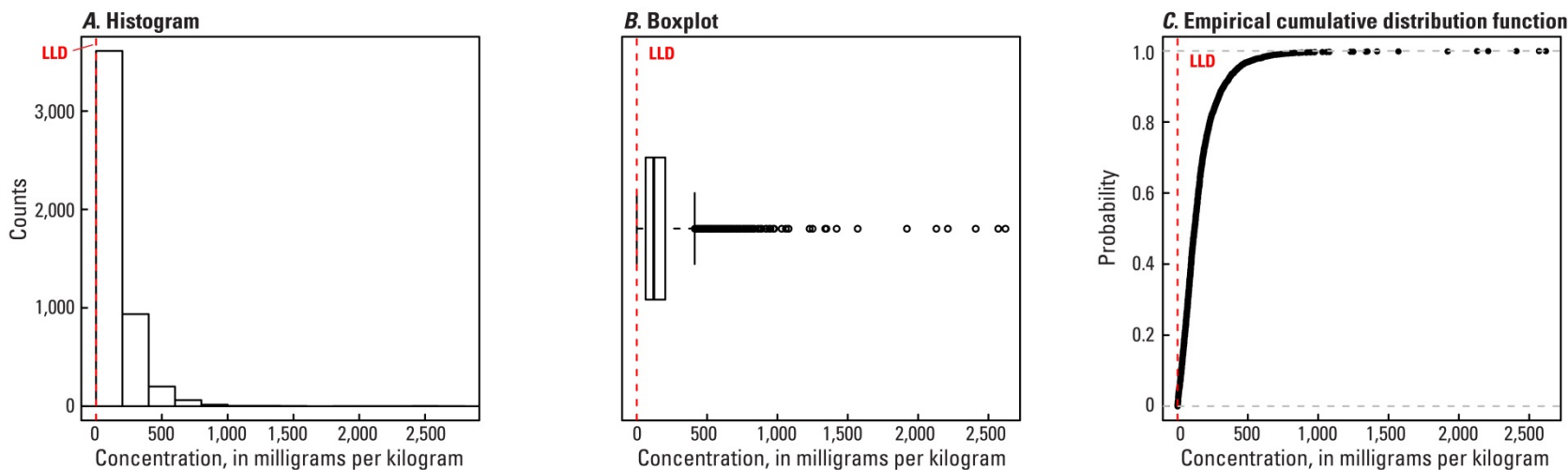
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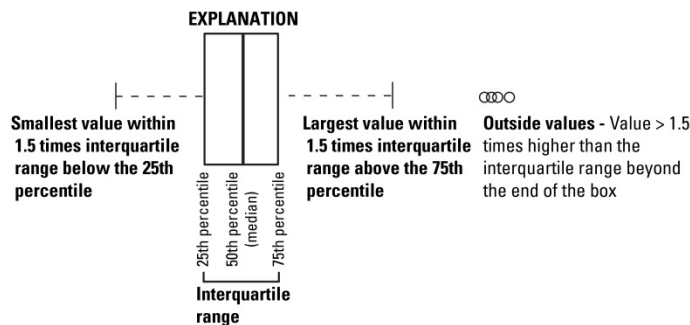
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These maps and statistical graphics were derived from data published in U.S. Geological Survey Data Series 801, downloadable from <http://pubs.usgs.gov/ds/801>.

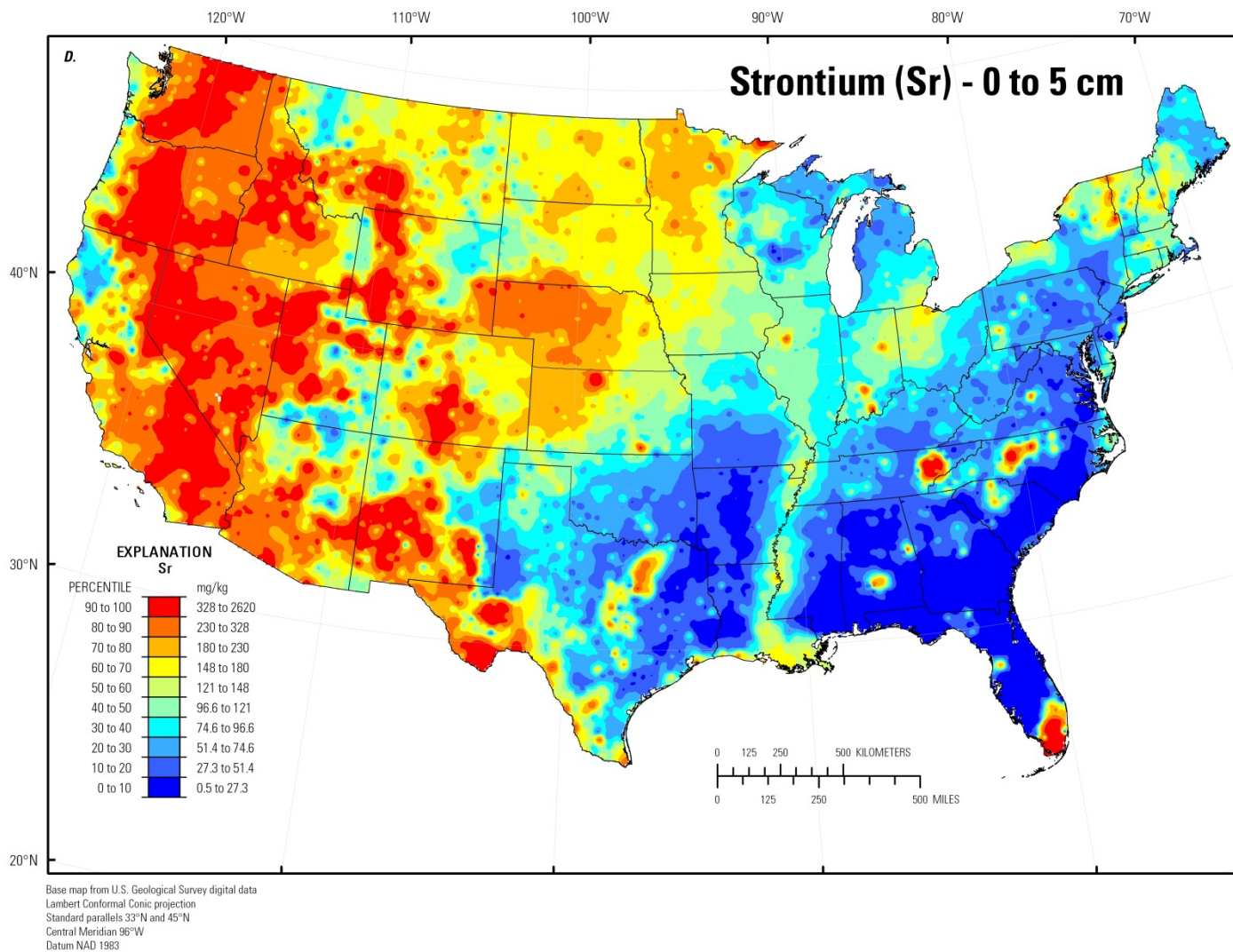
### Strontium (Sr) in soil collected from a depth of 0 to 5 centimeters



Number of samples = 4,841  
 LLD = 0.5 milligrams per kilogram  
 Number below LLD = 0  
 Minimum = 0.5 milligrams per kilogram  
 5 percentile = 12.7 milligrams per kilogram  
 25 percentile = 63.4 milligrams per kilogram  
 50 percentile = 121 milligrams per kilogram  
 75 percentile = 203 milligrams per kilogram  
 95 percentile = 426 milligrams per kilogram  
 Maximum = 2,620 milligrams per kilogram  
 MAD = 96.5 milligrams per kilogram  
 Robust CV = 79.8 %

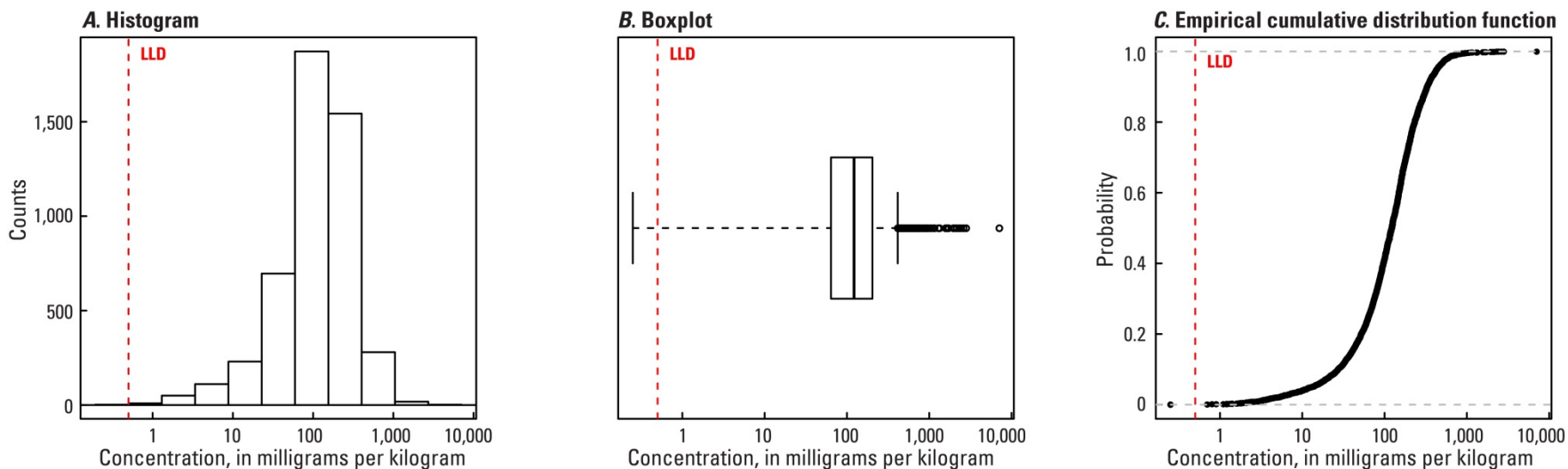


**Figure 104.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of strontium (Sr) in surface soils collected from a depth of 0 to 5 centimeters, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram; cm, centimeters).

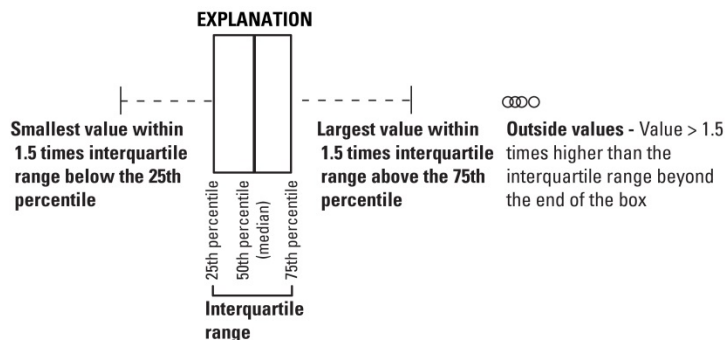


**Figure 104.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of strontium (Sr) in surface soils collected from a depth of 0 to 5 centimeters, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram; cm, centimeters).—Continued

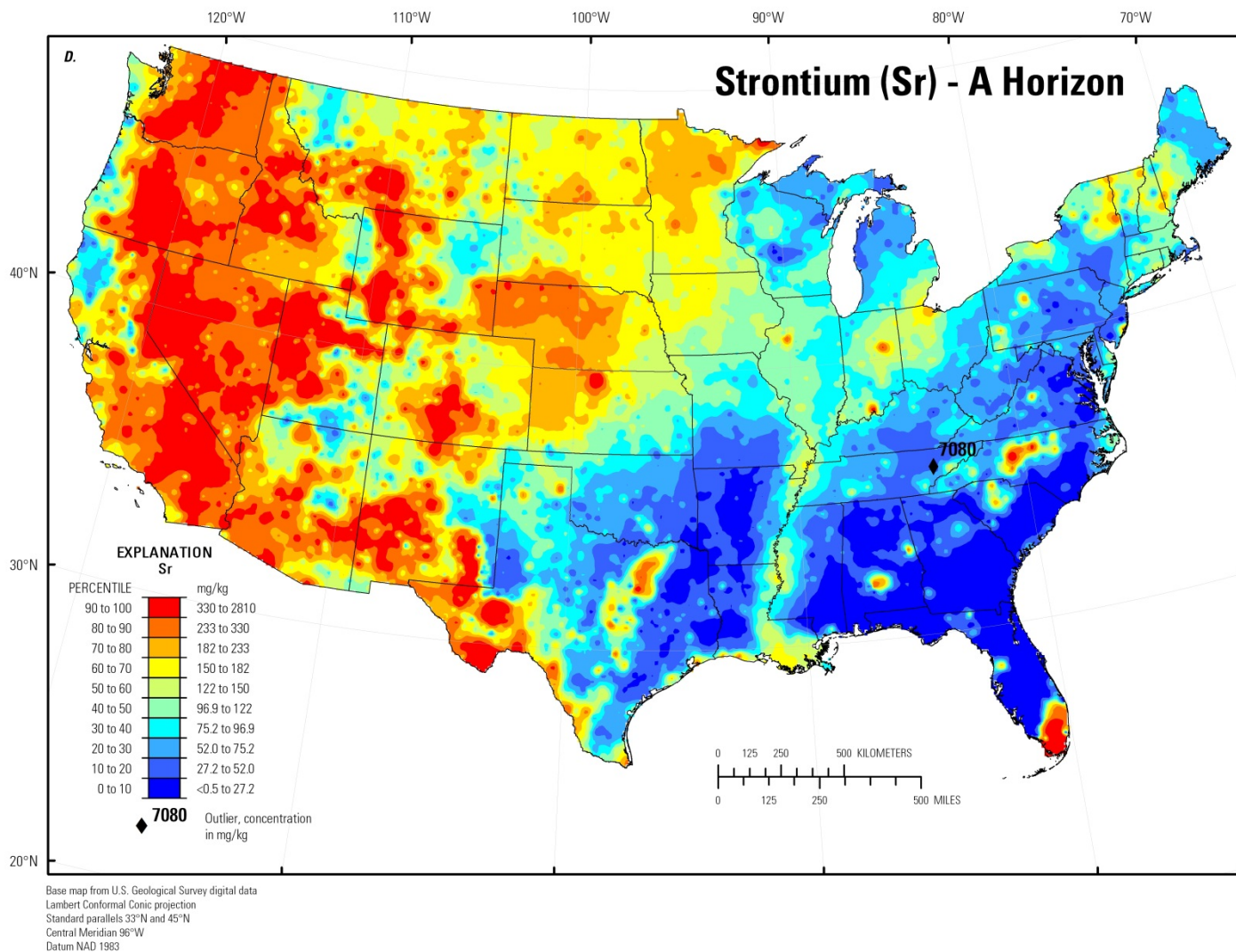
## Strontium (Sr) in soil A horizon



Number of samples = 4,813  
 LLD = 0.5 milligrams per kilogram  
 Number below LLD = 2  
 Minimum = <0.5 milligrams per kilogram  
 5 percentile = 13 milligrams per kilogram  
 25 percentile = 64 milligrams per kilogram  
 50 percentile = 122 milligrams per kilogram  
 75 percentile = 204 milligrams per kilogram  
 95 percentile = 432 milligrams per kilogram  
 Maximum = 7,080 milligrams per kilogram  
 MAD = 97.9 milligrams per kilogram  
 Robust CV = 80.2 %

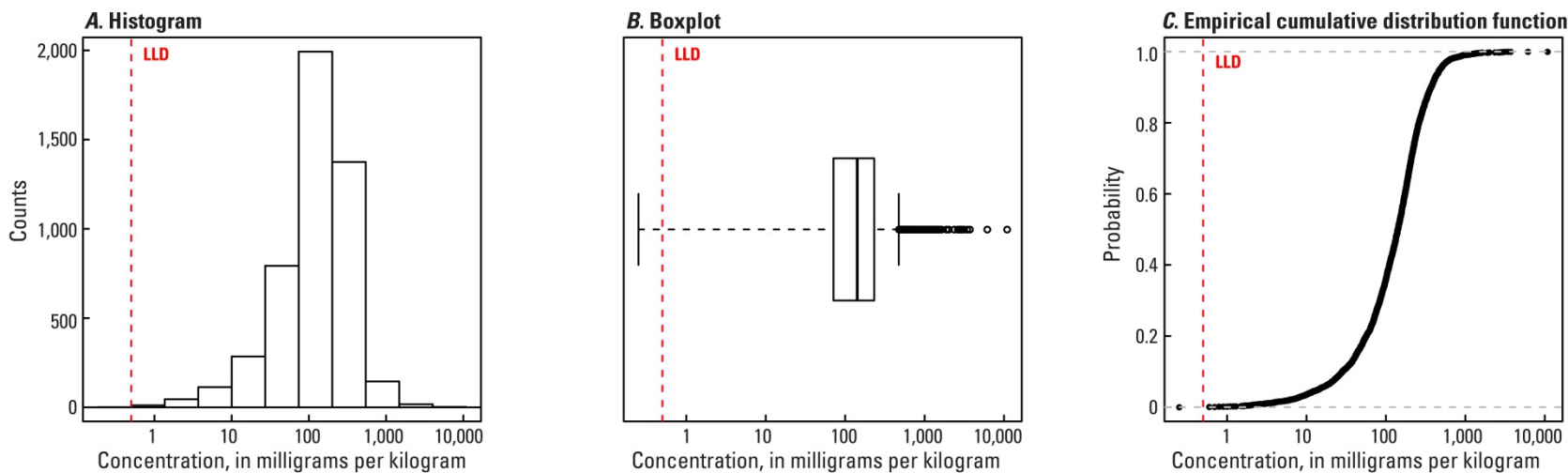


**Figure 105.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of strontium (Sr) in the soil A horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).

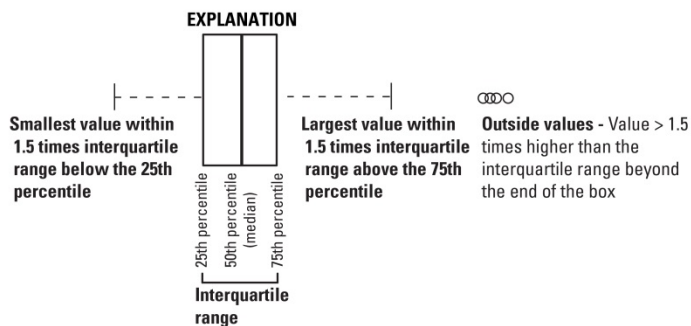


**Figure 105.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of strontium (Sr) in the soil A horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).—Continued

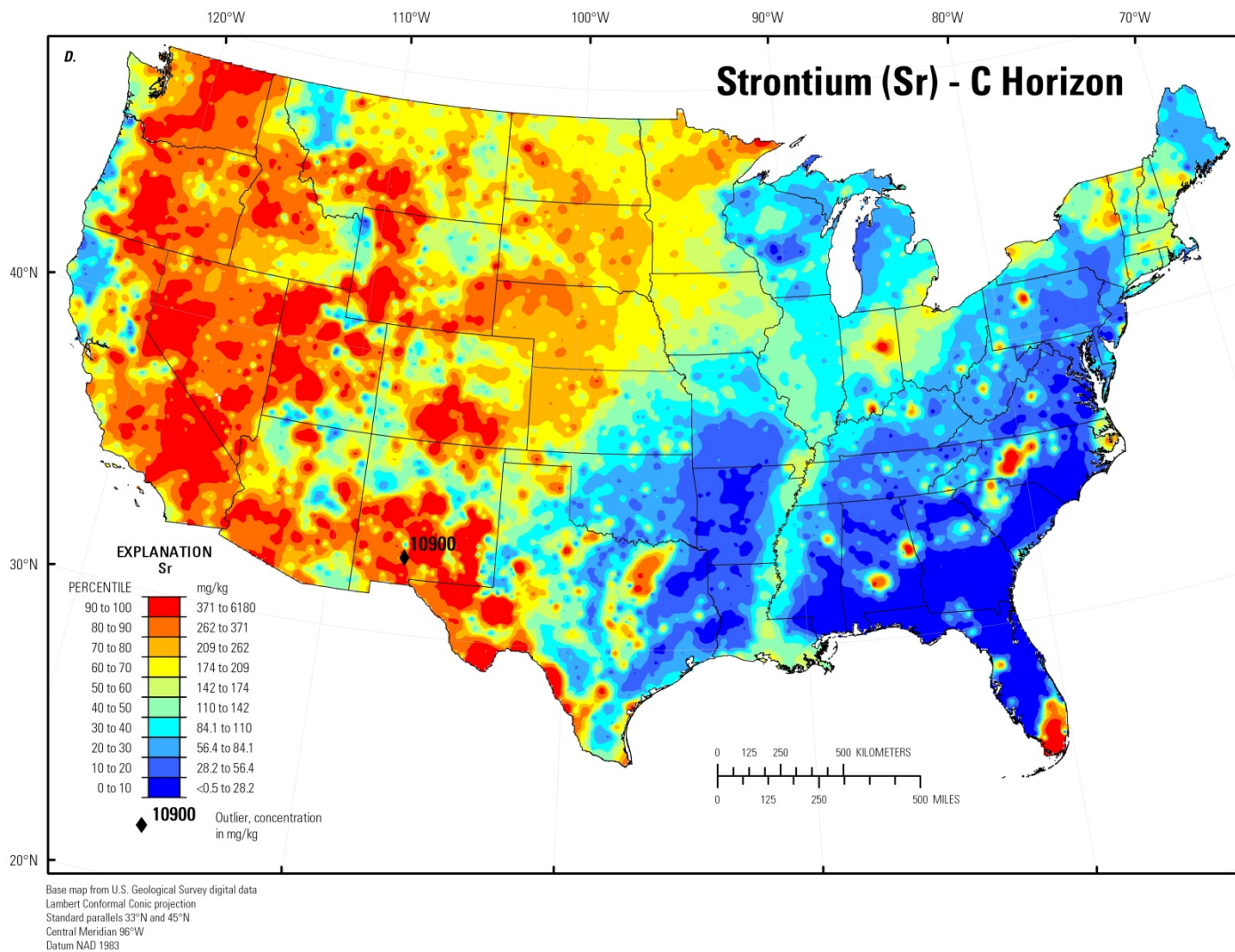
## Strontium (Sr) in soil C horizon



Number of samples = 4,780  
 LLD = 0.5 milligrams per kilogram  
 Number below LLD = 1  
 Minimum = <0.5 milligrams per kilogram  
 5 percentile = 14.4 milligrams per kilogram  
 25 percentile = 71.2 milligrams per kilogram  
 50 percentile = 142 milligrams per kilogram  
 75 percentile = 232 milligrams per kilogram  
 95 percentile = 479 milligrams per kilogram  
 Maximum = 10,900 milligrams per kilogram  
 MAD = 115 milligrams per kilogram  
 Robust CV = 81.2 %



**Figure 106.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of strontium (Sr) 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 106.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of strontium (Sr) 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