



Geochemical and Mineralogical Maps for Soils of the Conterminous United States

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U.S. Geological Survey**

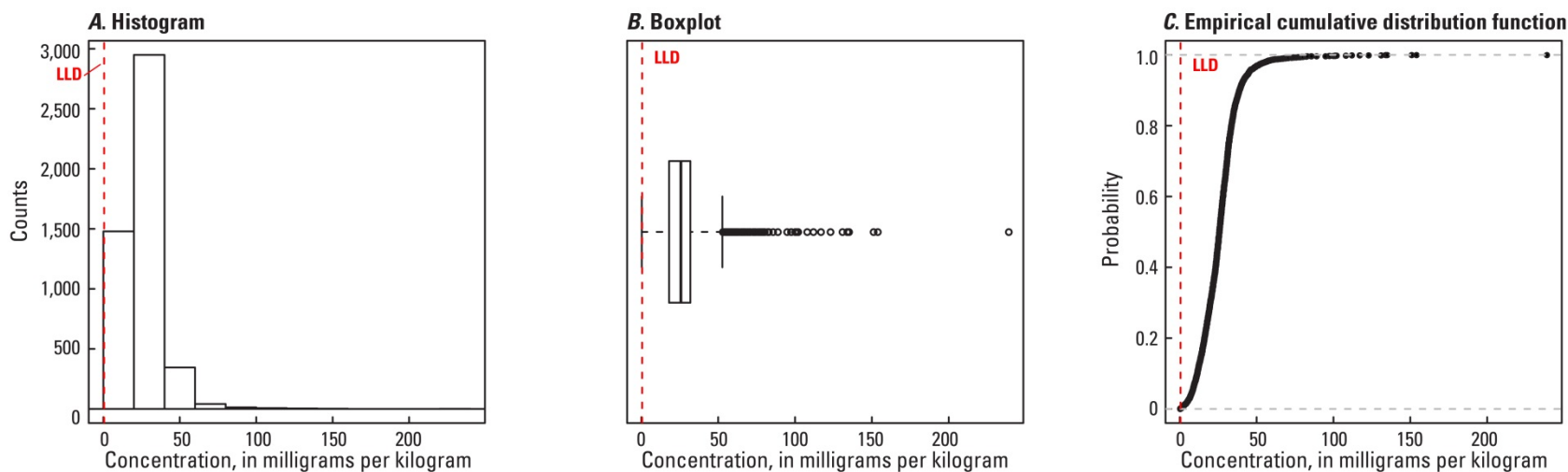
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These maps and statistical graphics were derived from data published in U.S. Geological Survey Data Series 801, downloadable from <http://pubs.usgs.gov/ds/801>.

Lanthanum (La) 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 = 5

Minimum = <0.5 milligrams per kilogram

5 percentile = 8.2 milligrams per kilogram

25 percentile = 18.0 milligrams per kilogram

50 percentile = 25.7 milligrams per kilogram

75 percentile = 31.9 milligrams per kilogram

95 percentile = 44.9 milligrams per kilogram

Maximum = 239 milligrams per kilogram

MAD = 10.2 milligrams per kilogram

Robust CV = 39.8 %

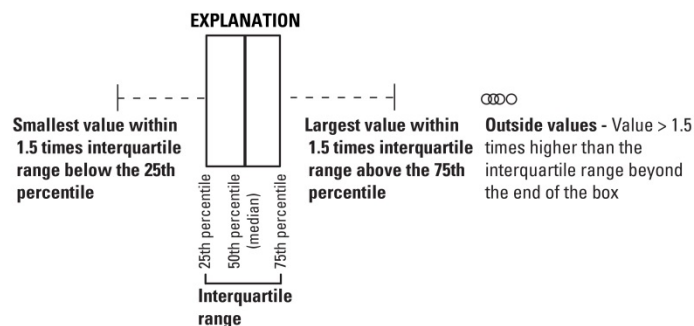


Figure 56. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of lanthanum (La) in surface soils collected from a depth of 0 to 5 centimeters, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram; cm, centimeters).

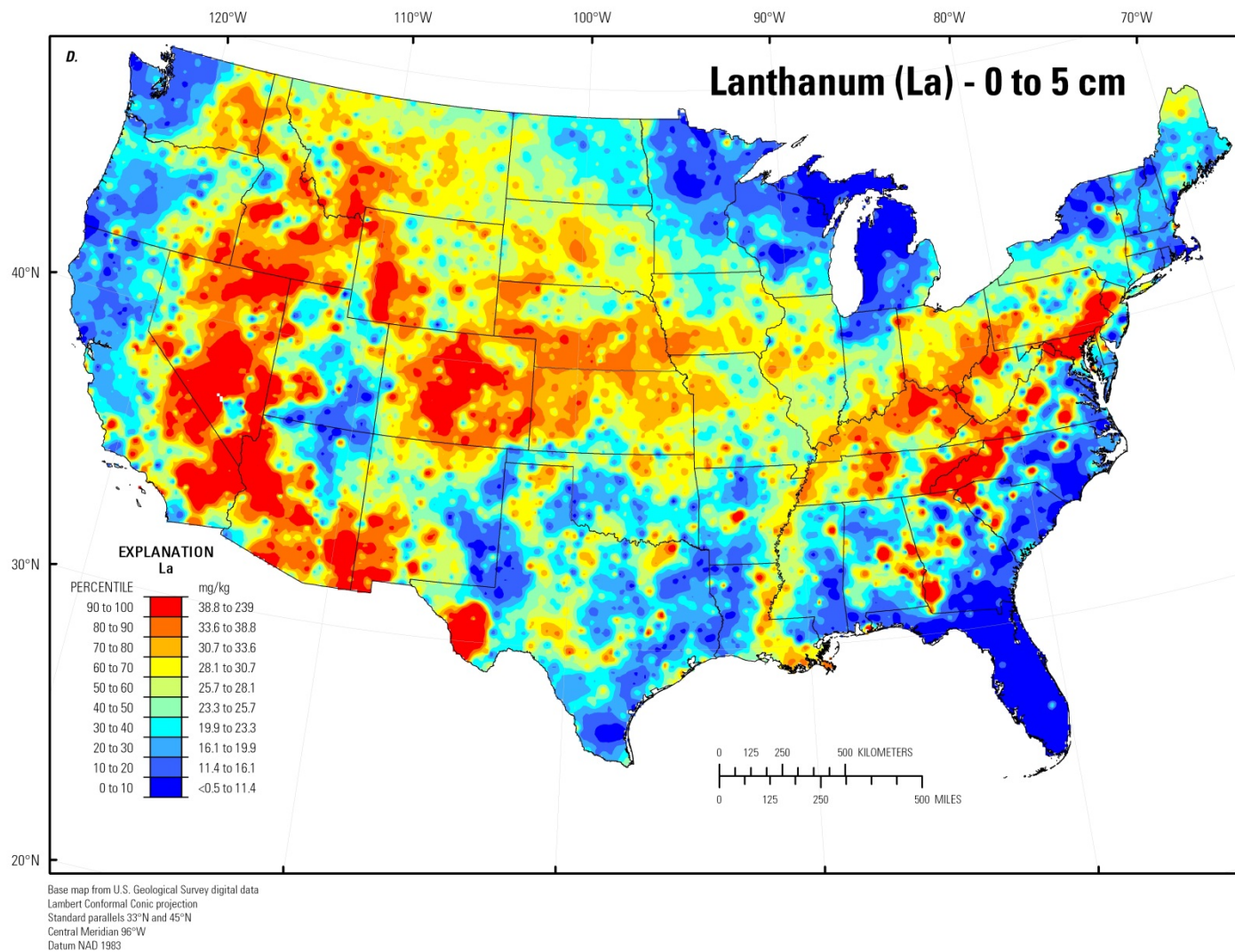
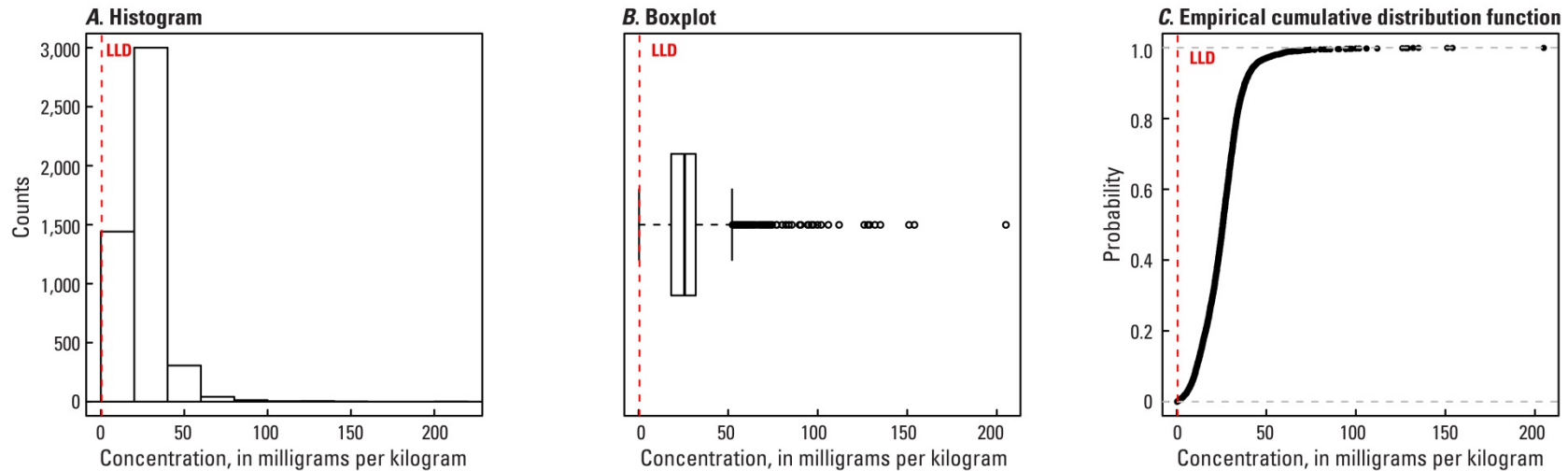


Figure 56. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of lanthanum (La) in surface soils collected from a depth of 0 to 5 centimeters, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram; cm, centimeters).—Continued

Lanthanum (La) 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 = 8.2 milligrams per kilogram
 25 percentile = 18.2 milligrams per kilogram
 50 percentile = 25.7 milligrams per kilogram
 75 percentile = 31.9 milligrams per kilogram
 95 percentile = 43.6 milligrams per kilogram
 Maximum = 205 milligrams per kilogram
 MAD = 10.1 milligrams per kilogram
 Robust CV = 39.2 %

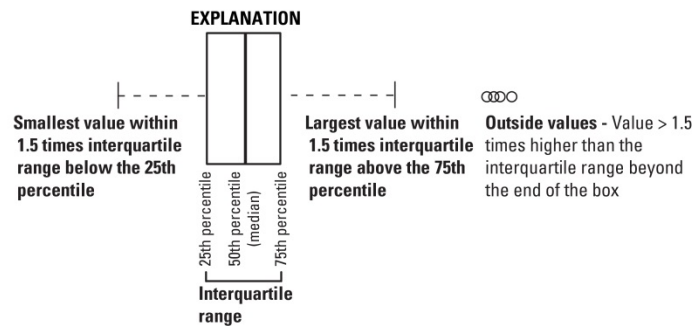


Figure 57. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of lanthanum (La) in the soil A horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).

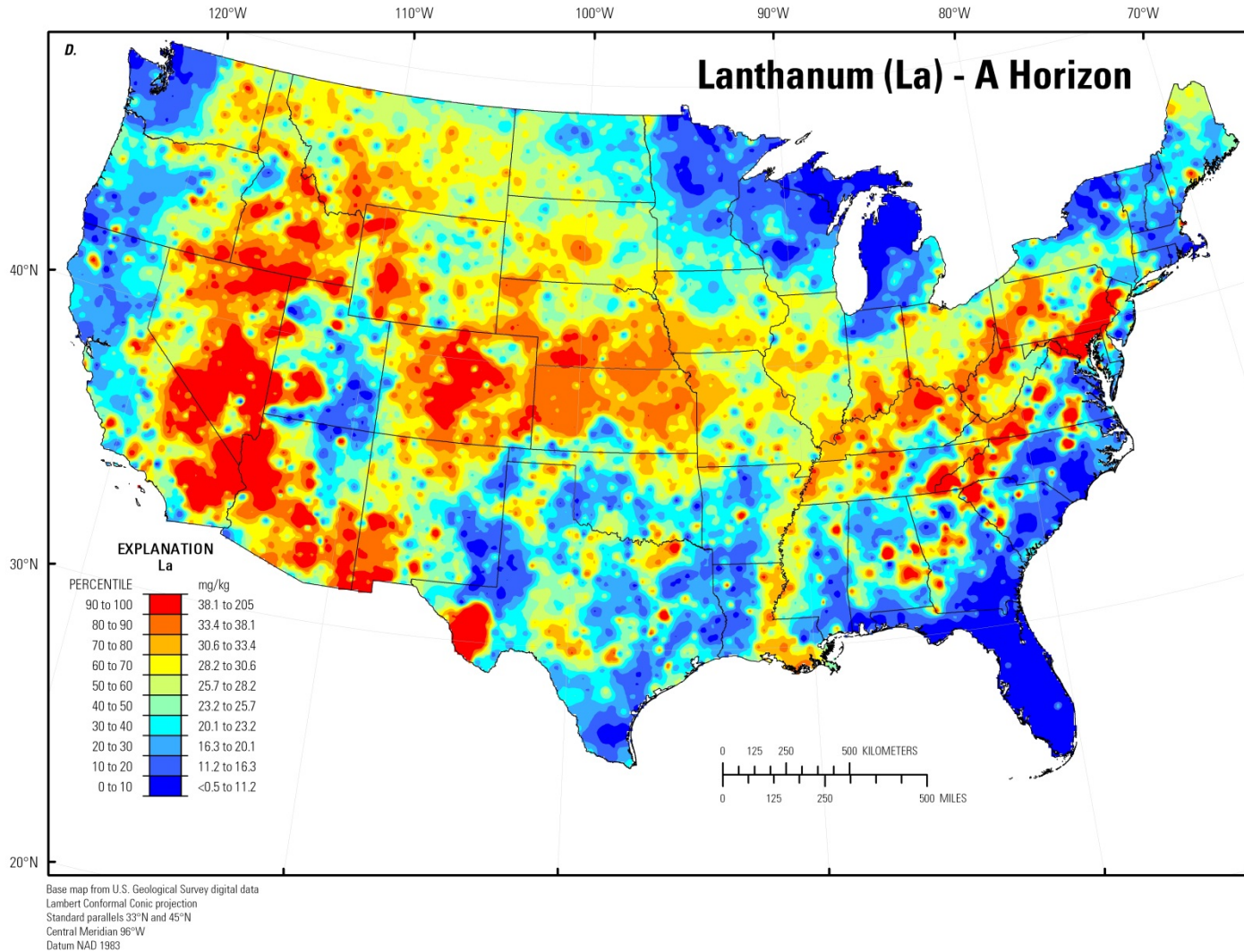
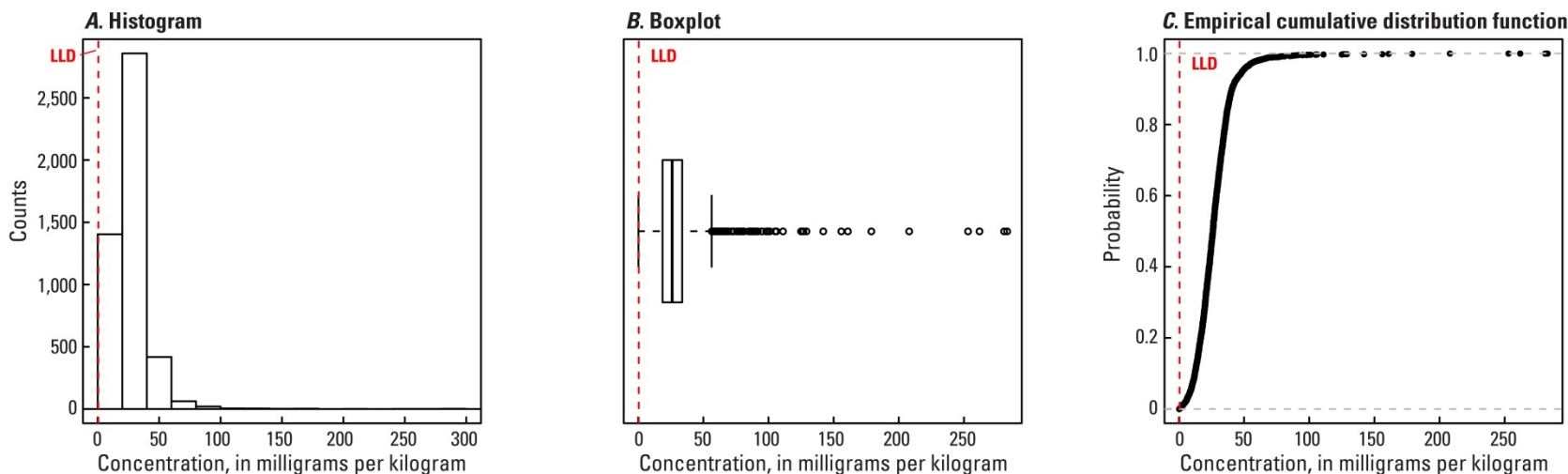


Figure 57. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of lanthanum (La) in the soil A horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).—Continued

Lanthanum (La) in soil C horizon



Number of samples = 4,780

LLD = 0.5 milligrams per kilogram

Number below LLD = 4

Minimum = <0.5 milligrams per kilogram

5 percentile = 8.9 milligrams per kilogram

25 percentile = 18.7 milligrams per kilogram

50 percentile = 26.1 milligrams per kilogram

75 percentile = 33.8 milligrams per kilogram

95 percentile = 48.7 milligrams per kilogram

Maximum = 283 milligrams per kilogram

MAD = 11.3 milligrams per kilogram

Robust CV = 43.2 %

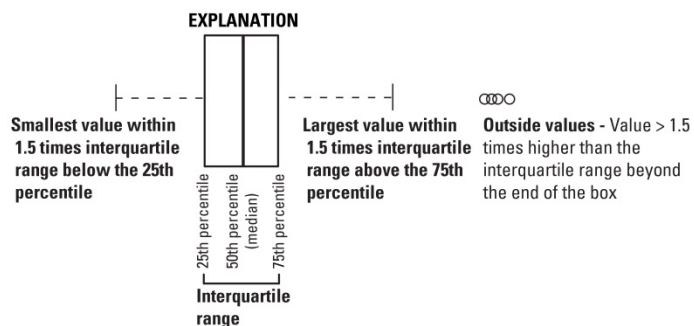


Figure 58. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of lanthanum (La) in the soil C horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).

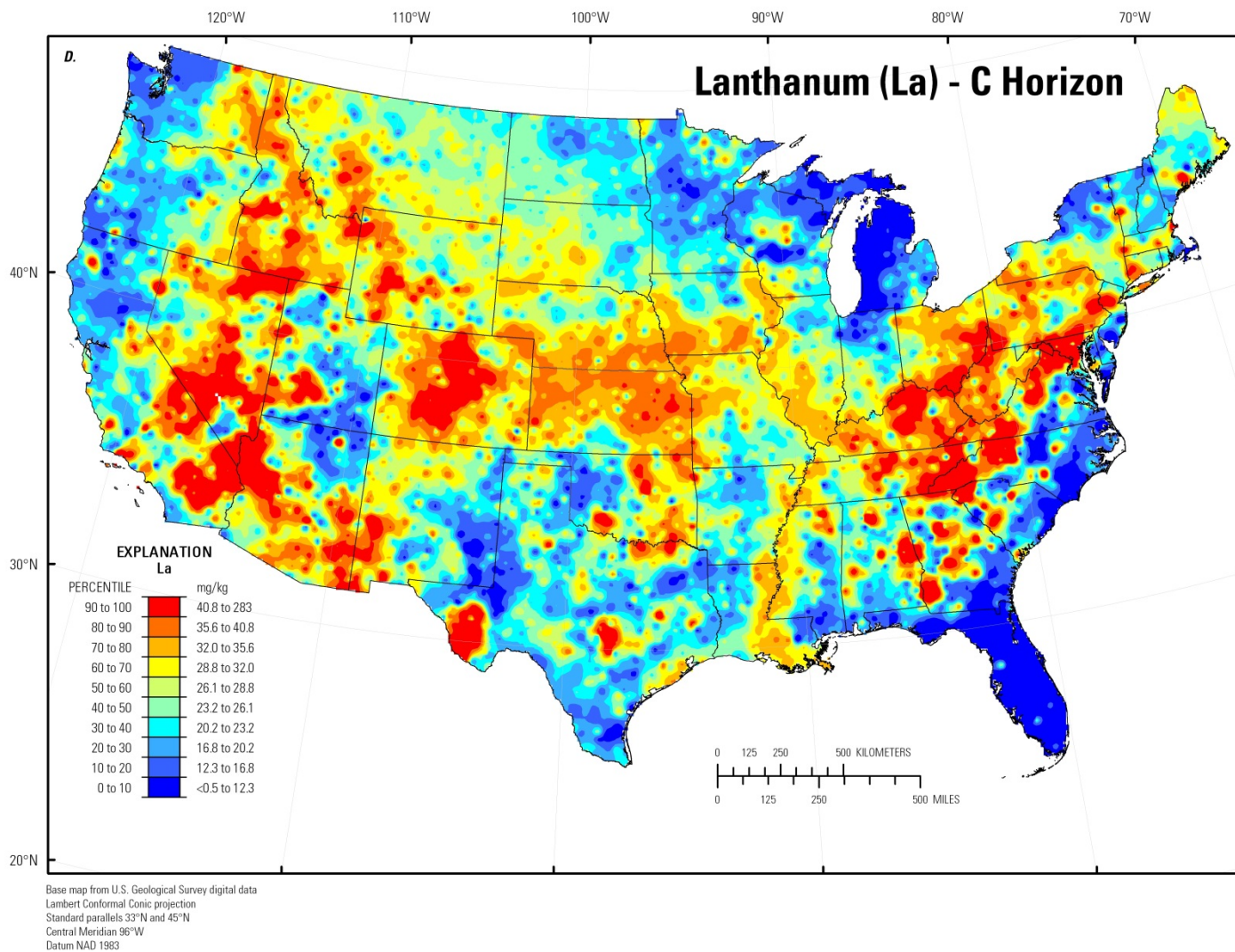


Figure 58. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of lanthanum (La) in the soil C horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).—Continued