



Geochemical and Mineralogical Maps for Soils of the Conterminous United States

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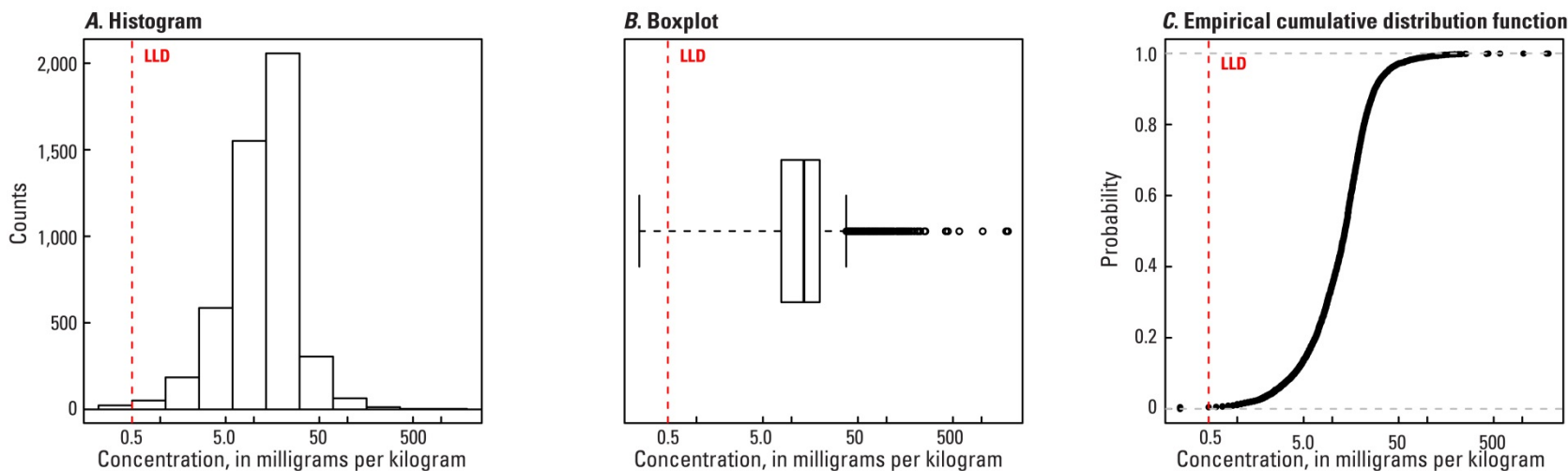
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These maps and statistical graphics were derived from data published in U.S. Geological Survey Data Series 801, downloadable from <http://pubs.usgs.gov/ds/801>.

Nickel (Ni) 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 = 23
 Minimum = <0.5 milligrams per kilogram
 5 percentile = 2.5 milligrams per kilogram
 25 percentile = 7.8 milligrams per kilogram
 50 percentile = 13.5 milligrams per kilogram
 75 percentile = 19.8 milligrams per kilogram
 95 percentile = 38.5 milligrams per kilogram
 Maximum = 1,890 milligrams per kilogram
 MAD = 8.9 milligrams per kilogram
 Robust CV = 65.9 %

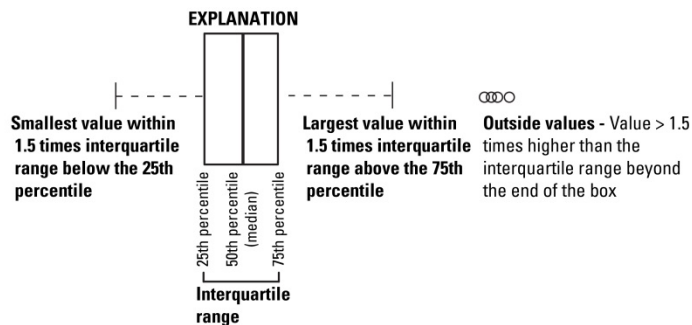


Figure 77. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of nickel (Ni) in surface soils collected from a depth of 0 to 5 centimeters, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram; cm, centimeters).

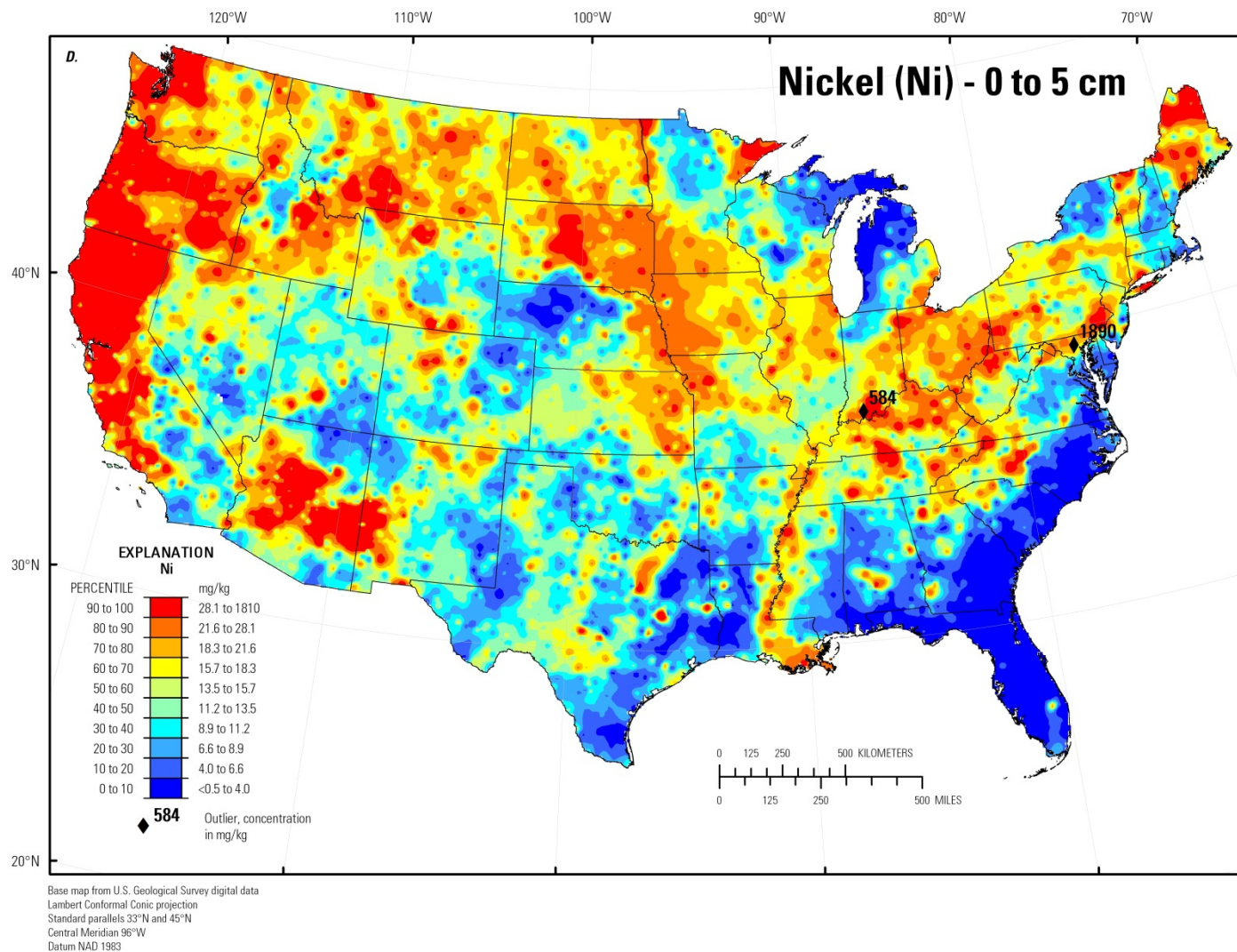
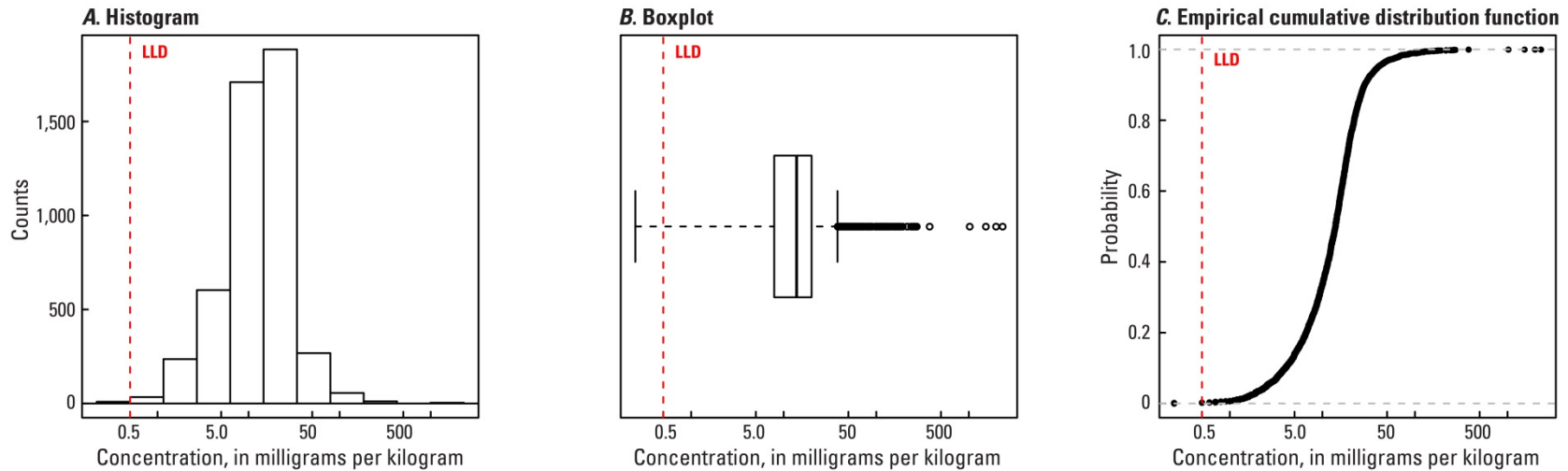


Figure 77. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of nickel (Ni) in surface soils collected from a depth of 0 to 5 centimeters, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram; cm, centimeters).—Continued

Nickel (Ni) in soil A horizon



Number of samples = 4,813

LLD = 0.5 milligrams per kilogram

Number below LLD = 9

Minimum = <0.5 milligrams per kilogram

5 percentile = 2.5 milligrams per kilogram

25 percentile = 7.9 milligrams per kilogram

50 percentile = 13.8 milligrams per kilogram

75 percentile = 20.0 milligrams per kilogram

95 percentile = 39.9 milligrams per kilogram

Maximum = 2,310 milligrams per kilogram

MAD = 8.9 milligrams per kilogram

Robust CV = 64.5 %

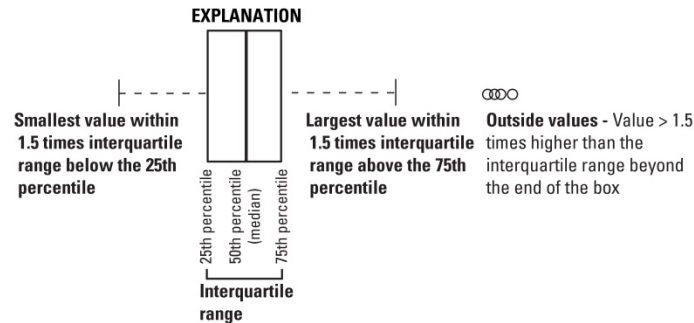


Figure 78. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of nickel (Ni) in the soil A horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).

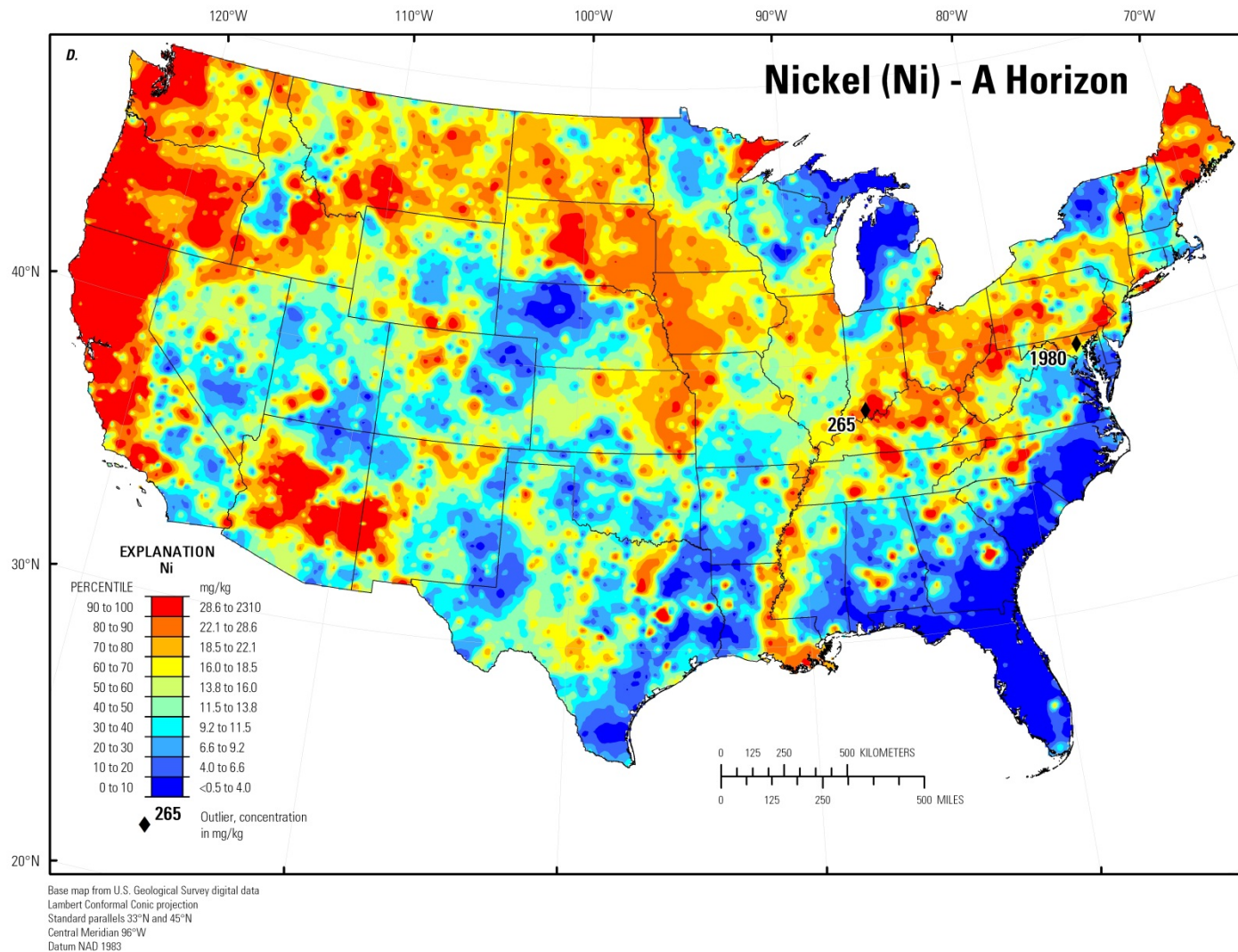
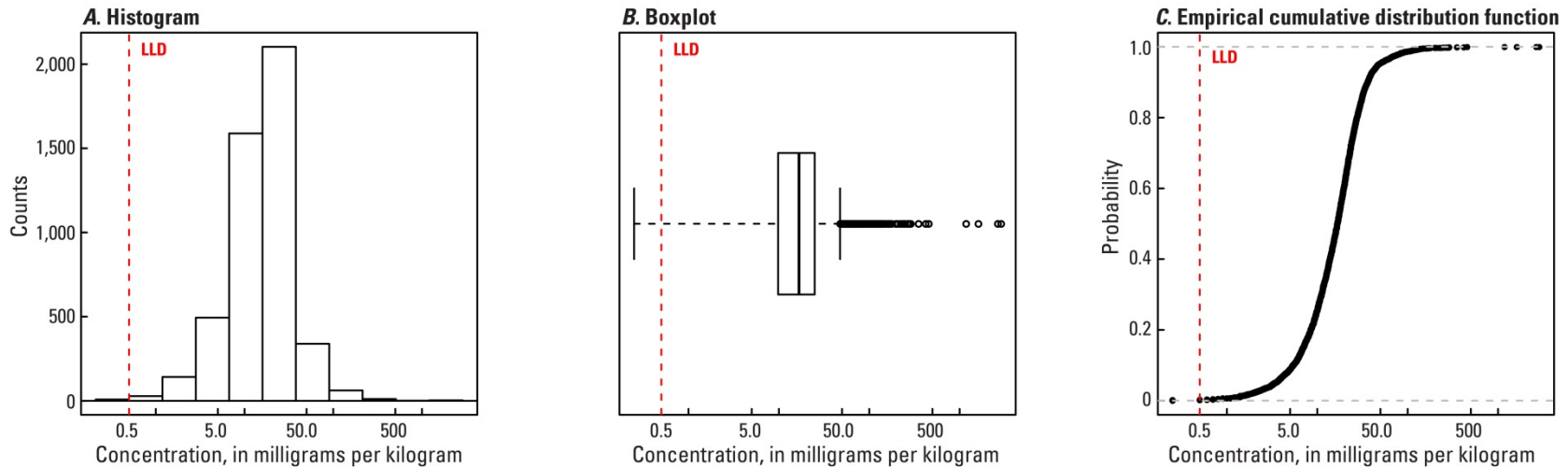


Figure 78. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of nickel (Ni) in the soil A horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).—Continued

Nickel (Ni) in soil C horizon



Number of samples = 4,780
 LLD = 0.5 milligrams per kilogram
 Number below LLD = 8
 Minimum = <0.5 milligrams per kilogram
 5 percentile = 3.4 milligrams per kilogram
 25 percentile = 9.8 milligrams per kilogram
 50 percentile = 16.7 milligrams per kilogram
 75 percentile = 24.9 milligrams per kilogram
 95 percentile = 47.5 milligrams per kilogram
 Maximum = 2,870 milligrams per kilogram
 MAD = 10.9 milligrams per kilogram
 Robust CV = 65.3 %

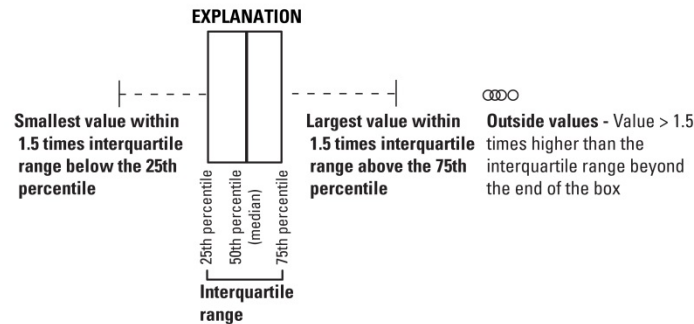


Figure 79. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of nickel (Ni) in the soil C horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).

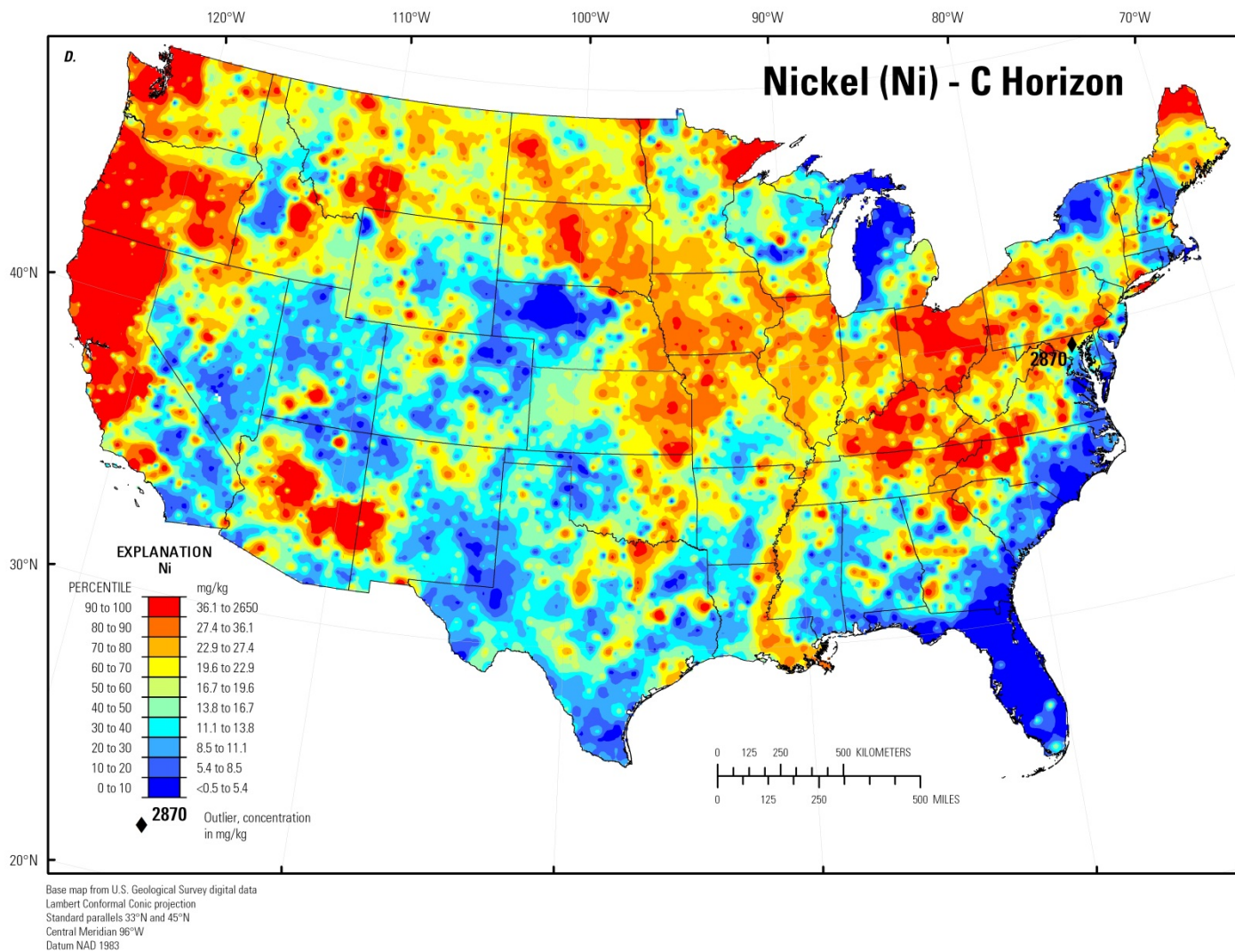


Figure 79. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of nickel (Ni) in the soil C horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).—Continued