



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

**U.S. Department of the Interior
U.S. Geological Survey**

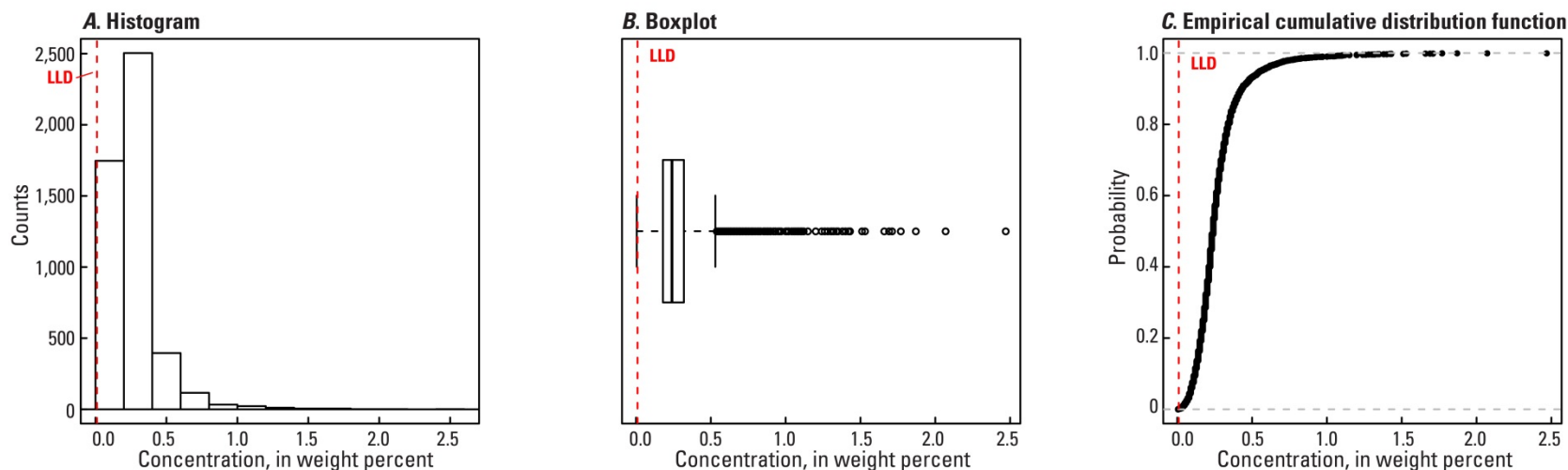
This is an excerpt from the original document.

It was downloaded from mrddata.usgs.gov/soilgeochemistry;

A link to download the full document (U.S. Geological Survey Open-File Report 2014-1082, 400 pages, 170 MB) can be found there or at <http://pubs.usgs.gov/of/2014/1082>.

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>.

Titanium (Ti) in soil collected from a depth of 0 to 5 centimeters



Number of samples = 4,841
 LLD = 0.01 weight percent
 Number below LLD = 2
 Minimum = <0.01 weight percent
 5 percentile = 0.09 weight percent
 25 percentile = 0.18 weight percent
 50 percentile = 0.24 weight percent
 75 percentile = 0.32 weight percent
 95 percentile = 0.56 weight percent
 Maximum = 2.47 weight percent
 MAD = 0.104 weight percent
 Robust CV = 43.2 %

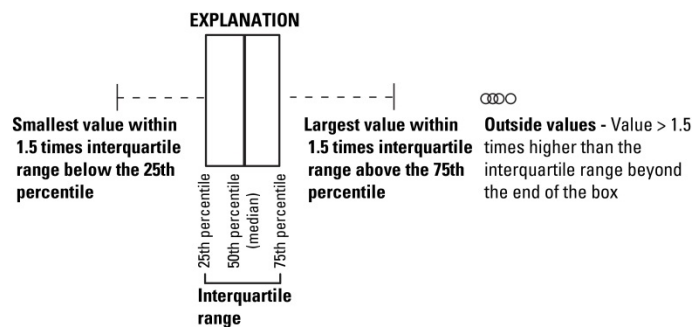


Figure 122. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of titanium (Ti) in surface soils collected from a depth of 0 to 5 centimeters, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; wt. %, weight percent; cm, centimeters).

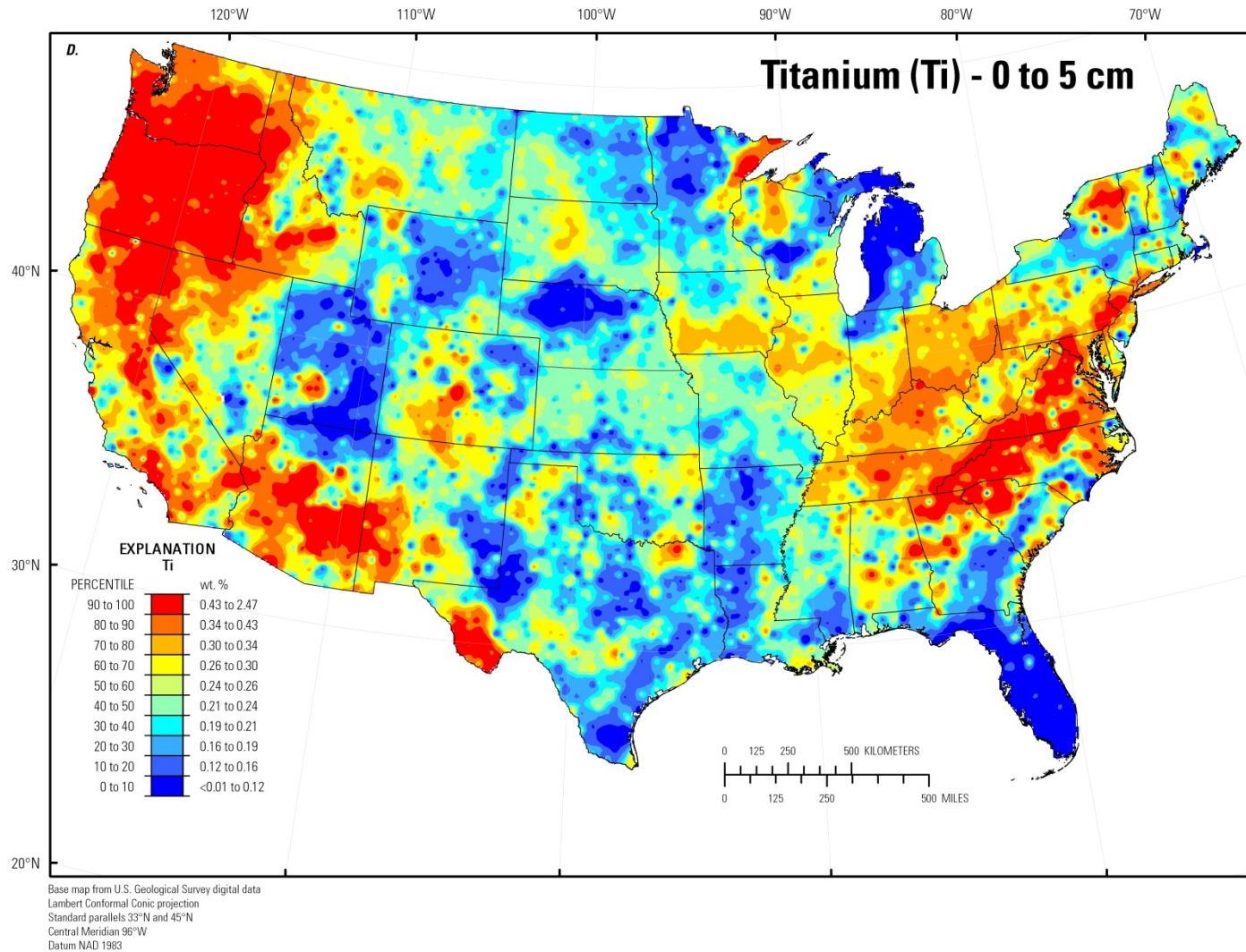
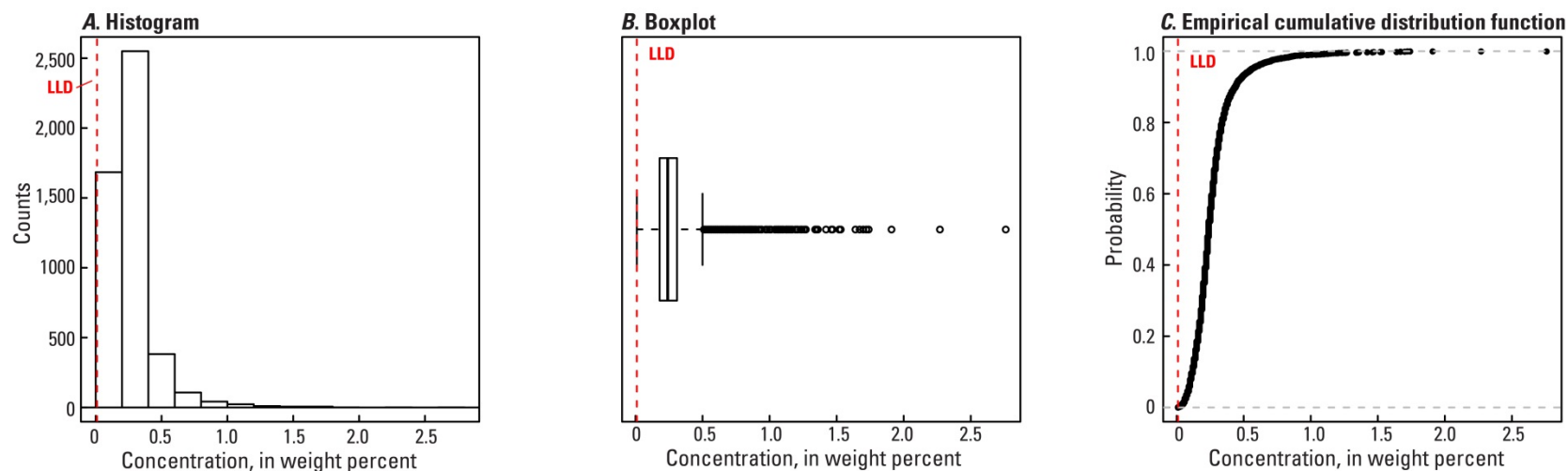


Figure 122. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of titanium (Ti) in surface soils collected from a depth of 0 to 5 centimeters, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; wt. %, weight percent; cm, centimeters).—Continued

Titanium (Ti) in soil A horizon



Number of samples = 4,813
 LLD = 0.01 weight percent
 Number below LLD = 0
 Minimum = 0.01 weight percent
 5 percentile = 0.09 weight percent
 25 percentile = 0.18 weight percent
 50 percentile = 0.24 weight percent
 75 percentile = 0.31 weight percent
 95 percentile = 0.56 weight percent
 Maximum = 2.76 weight percent
 MAD = 0.104 weight percent
 Robust CV = 43.2 %

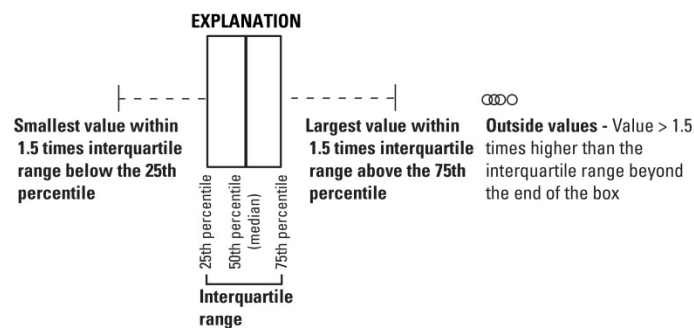


Figure 123. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of titanium (Ti) in the soil A horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; wt. %, weight percent).

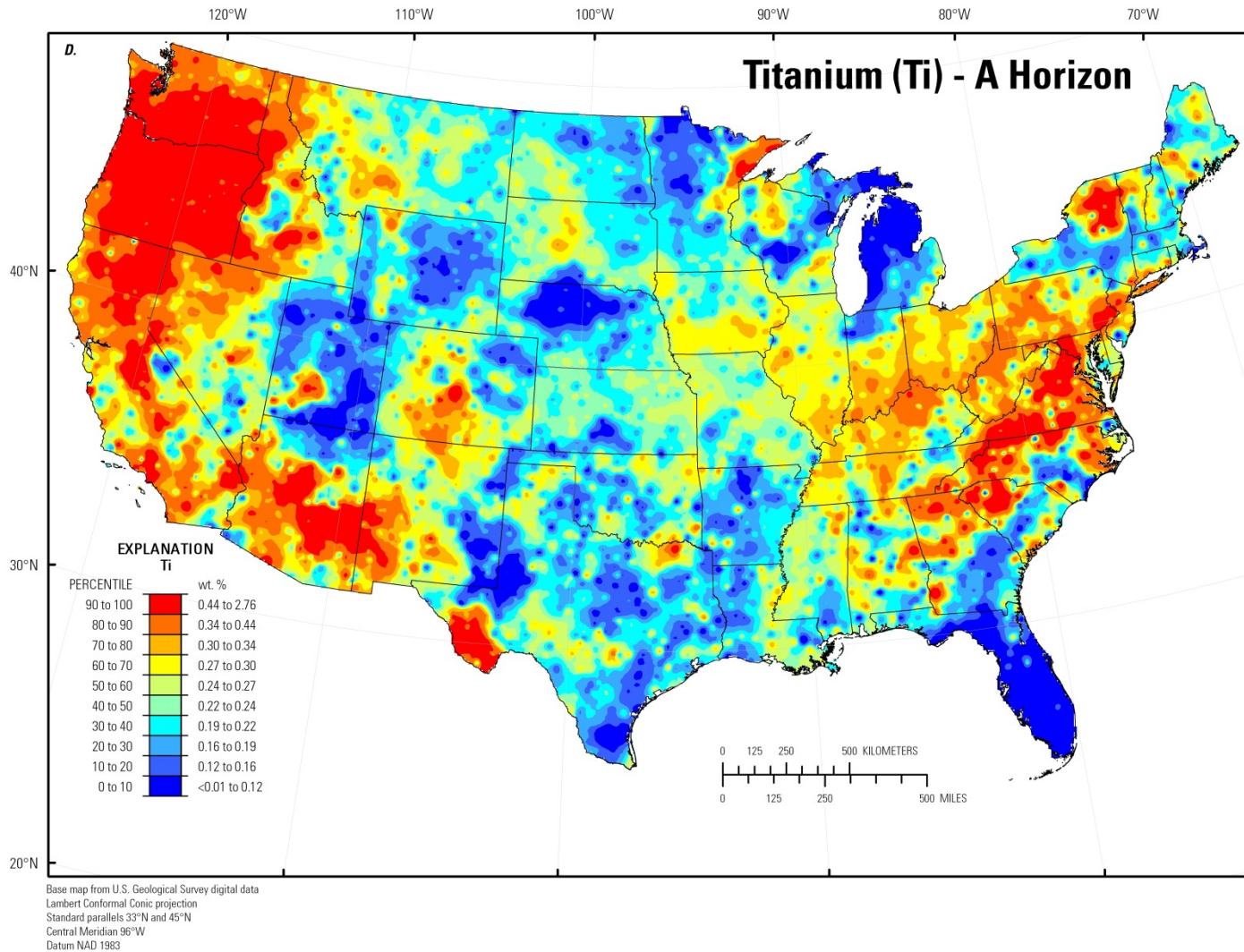
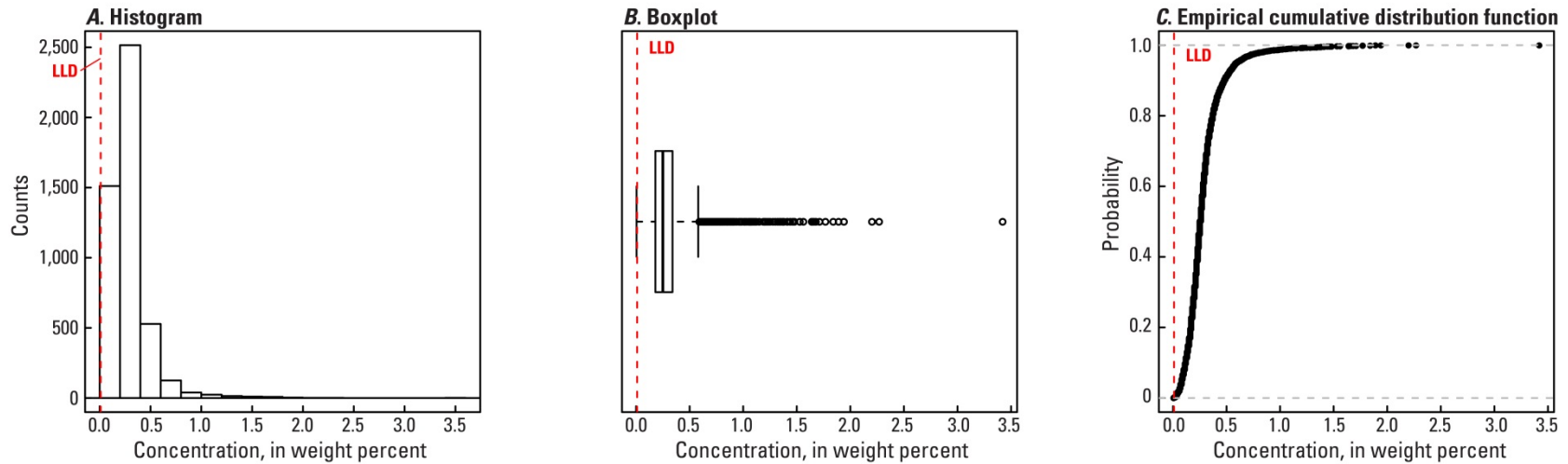


Figure 123. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of titanium (Ti) in the soil A horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; wt. %, weight percent).—Continued

Titanium (Ti) in soil C horizon



Number of samples = 4,780
 LLD = 0.01 weight percent
 Number below LLD = 2
 Minimum = <0.01 weight percent
 5 percentile = 0.08 weight percent
 25 percentile = 0.18 weight percent
 50 percentile = 0.25 weight percent
 75 percentile = 0.34 weight percent
 95 percentile = 0.59 weight percent
 Maximum = 3.42 weight percent
 MAD = 0.119 weight percent
 Robust CV = 47.4 %

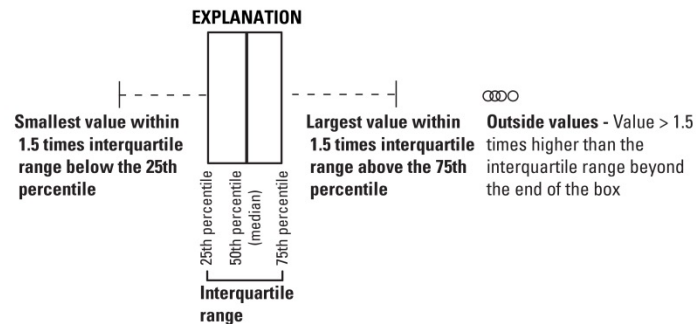


Figure 124. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of titanium (Ti) in the soil C horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; wt. %, weight percent).

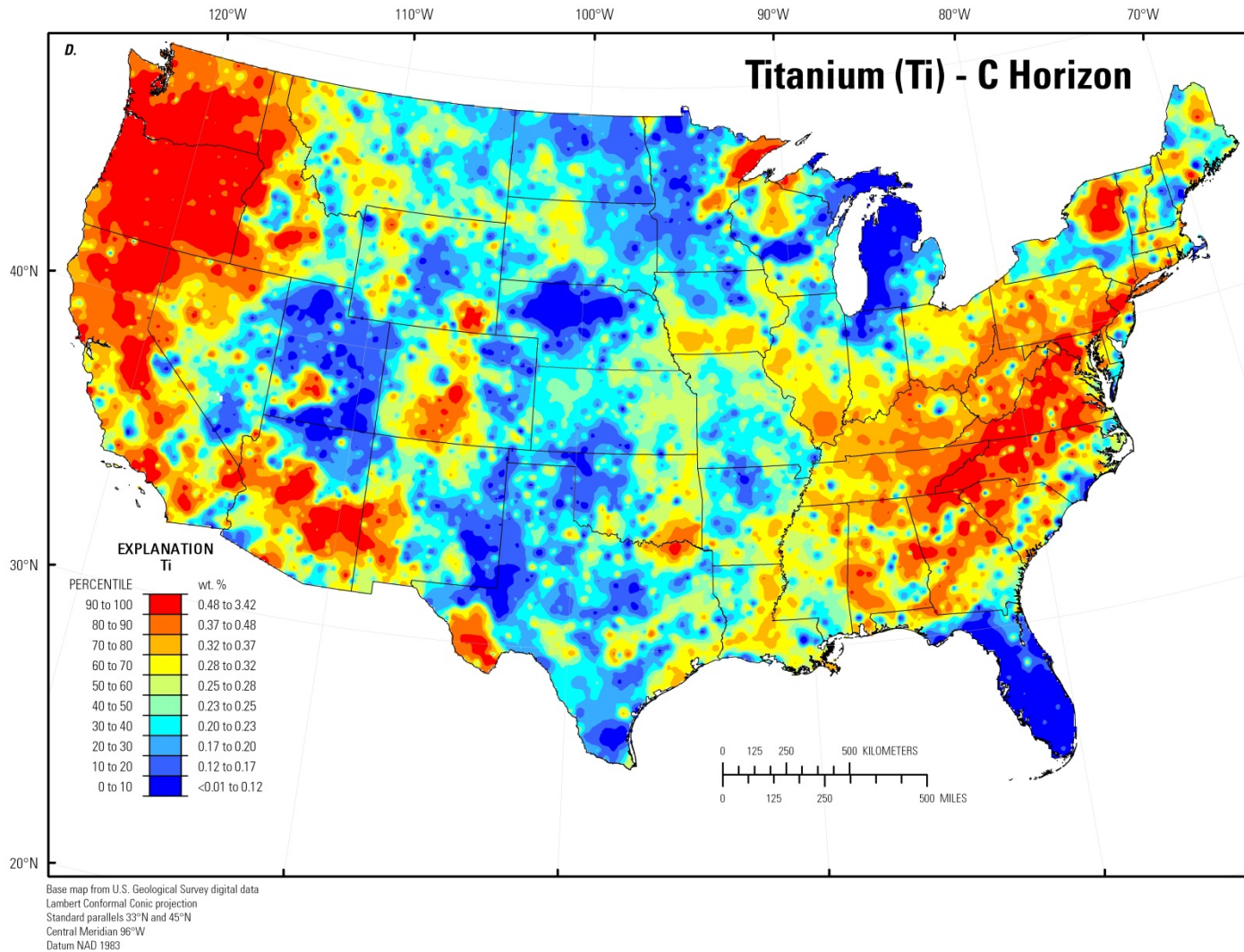


Figure 124. A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of titanium (Ti) in the soil C horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; wt. %, weight percent).—Continued