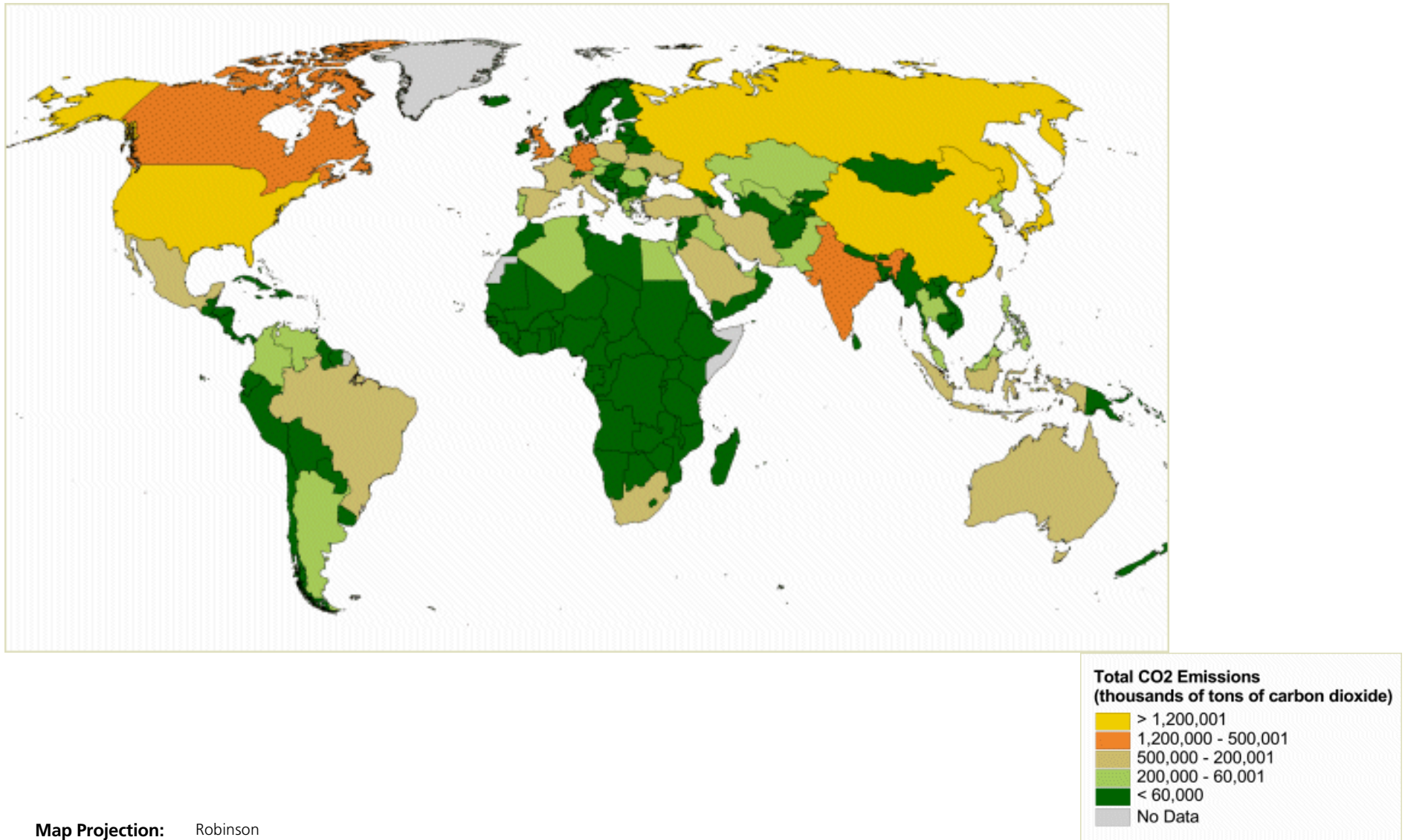


Total CO2 Emissions, Excluding Land Use Change, 2000



Map Projection: Robinson

Citation: WRI, 2003. Carbon Emissions from Energy Use and Cement Manufacturing, 1850 to 2000. Available on-line through the Climate Analysis Indicators Tool (CAIT) at <http://cait.wri.org>. Washington, DC: World Resources Institute.

Analytical Overview:

Carbon dioxide (CO₂) emissions data were compiled by WRI in its Climate Analysis Indicators Tool (CAIT) from several sources: the Carbon Dioxide Information Analysis Center (CDIAC), the International Energy Agency (IEA), and the Energy Information Administration (EIA).

The complete methodology used to calculate CO₂ emissions is described on-line in the CAIT Indicator Framework paper.

Description:

Total emissions of carbon dioxide, excluding land-use, represents the mass of carbon dioxide (CO₂) produced during the combustion of fossil fuels, as well as from gas flaring and the manufacture of cement.

Roughly 75% of global CO₂ emissions are from the burning of fossil fuels and cement manufacturing. These emissions, together with CO₂ from land-use changes and the emissions of five non-CO₂ gases--methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆)--constitute the main sources contributing to climate change.

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Here, data covering the past few decades are mostly from IEA; however 53 countries' emissions are reported using CDIAC data, and one country's emissions are reported using EIA data. Comparability can be endangered when data points from different sources, using different methodologies, are placed side-by-side. However, most countries using CDIAC data are relatively small emitters, together constituting about 0.2 percent of global emissions.