

Atmospheric temperature profiles of the Northern Hemisphere : a compendium of data

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Abstrak

This book is a global augmentation of the climatological tropospheric temperature profiles in the Northern Hemisphere for different latitude belts and seasons. There are 72 mean temperature profile tables from the surface up to 10 kilometers in height that represent the four seasons for different latitudinal belts (5° N, 10° N, 15° N, 20° N, 25° N, 30° N, 35° N, 40° N, 45° N, 50° N, 55° N, 60° N, 65° N, 70° N, 75° N, 80° N, 85° N). The model is based on a neural network algorithm that uses archived radiosonde data, retrieved temperature profiles from remote sensors, and the solar insolation at the top of the earth's atmosphere.