

## RECOMMENDATION ITU-R P.1510

**ANNUAL MEAN SURFACE TEMPERATURE**

(Question ITU-R 201/3)

(2001)

The ITU Radiocommunication Assembly,

*considering*

- a) that information on annual mean surface temperature is needed for propagation modelling purposes;
- b) that the information is needed for all locations of the globe, especially when regional or continental calculations are necessary,

*recommends*

**1** that the data in Annex 1 be used to obtain the annual mean surface temperature when no local data are available. For easy reference the data are also shown in Fig. 1.

**ANNEX 1****1 Surface mean annual temperature**

The data file ESATEMP.TXT contains the annual mean surface temperature (°C) at 2 m above the surface of the Earth with a resolution of 1.5° in both latitude and longitude. The companion data files ESALAT.TXT and ESALON.TXT contain respectively the latitudes and longitudes of the corresponding entries (gridpoints) in data file ESATEMP.TXT.

The data are from 0° to 360° in longitude and from +90° to -90° in latitude. For a location different from the gridpoints, the temperature at the desired location can be derived by performing a bi-linear interpolation on the values at the four closest grid points.

The data files can be obtained from the ITU Radiocommunication Bureau (BR).

FIGURE 1  
Annual mean surface temperature (°C)

