



Units of Pressure

meteorologists use millibars

Helper Menu

exit helper
 helper page
 more detail

Inches of Mercury → **(^oHg)**

Atmospheres → **(atm)**

Kilopascals → **(kPa)**

Millibars → **(mb)**

29.92 ^oHg = 1.0 atm = 101.325 kPa = 1013.25 mb

In aviation and television weather reports, pressure is given in inches of mercury (^oHg), while meteorologists use millibars (mb), the unit of pressure found on weather maps.

As an example, consider a "unit area" of 1 square inch. At sea level, the weight of the air above this unit area would (on average) weigh 14.7 pounds! That means pressure applied by this air on the unit area would be 14.7 pounds per square inch. Meteorologists use a metric unit for pressure called a millibar and the average pressure at sea level is 1013.25 millibars.

[Terms](#) for using data resources. [CD-ROM](#) available.

[Credits and Acknowledgments](#) for WW2010.
[Department of Atmospheric Sciences \(DAS\)](#) at
 the University of Illinois at Urbana-Champaign.