Liquid-in-glass Thermometers

Mercury-in-glass thermometer

Gallileo thermometer
Bi-metallic Thermometer

When heated

Diagram showing the expansion and contraction of a bi-metallic strip.
Rutgers Weather Station

New Brunswick, NJ
Remote Weather Station
Installed: May 23, 2006

- 10 Meter Tower
- 3' locked main gate
- 6' High Chain Link Fence 40' by 60'
- Met 1 42” Heated Precipitation Gauge
- Nema enclosure houses data logger, cdma modem etc.
- Temperature / Humidity Sensor
- Wind Speed and Direction
- Yagi antenna for wireless communications

3' gate used for tilting down tower
Stevenson screen

Interior showing instrumentation
Radiosondes
Integrated Global Radiosonde Archive

National Climatic Data Center, NOAA
Comparison of temperature profiles for Green Bay, WI (12Z 25 Aug 2005) plotted on an emagram (left) and skew-T (right)
Skew-T Diagram (cont’d)