

REMOTELY MEASURED TEMPERATURE COMPARABILITY

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There may exist questions concerning the agreement between temperature retrieved from satellites monitoring the upper stratosphere and mesosphere. The indication is that they do provide reasonably similar temperature profiles, i.e., differences exist but may be insignificant. It is unavoidable that the satellite soundings are not coincidental in time or in location and as a result comparison of these profiles are inexact. We will compare early comparisons of conjunctive inflatable falling sphere and satellite measurements, e.g., HALOE, AIRS, SABER, and possibly others as a surrogate method to infer accuracy between temperature retrievals. Comparison of measurements mainly in polar latitudes will establish the retrieval comparability. Our emphasis is to illustrate how well the retrievals representative the polar summer mesosphere. Whether large differences between remotely sensed temperatures are within expected accuracy bounds will be discussed using profiles between 60-90 km.

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