

Isolating Stratospheric Warmings – From the Mesosphere to the Troposphere

K. Coughlin

University of Reading (k.coughlin@rdg.ac.uk)

Stratospheric Warming events exhibit the most drastic changes seen in the stratosphere and yet the categorization of these events continues to be adhoc. Understandably, the definitions of major warming, minor warmings and/or Canadian warmings often depend on the scientific problem at hand. And yet, we show here that these events are statistically separated from the rest of the days in the winter stratosphere. We show how warmings can be isolated and defined in a objective manner. Furthermore, we are then able to show the effect of these warmings from the mesosphere down to the troposphere.