

A Meteorological Overview of the POSIDON Campaign

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This paper will examine the relevant meteorology for the Tropical Tropopause Layer in the Guam region during the October 2016 period of the POSIDON campaign. The paper will characterize the temperature variations in the TTL and relate it to TTL waves and tropospheric convection. Another important question is how "typical" October 2016 is in terms of important TTL features, such as temperature distribution and convection. Finally, the paper will examine a history of convective influence in the TTL over the region covered by the B-57, showing a day-by-day broad picture of the convective origin of TTL air (both where and how recently the convection occurred).