

Vertical structure contrasts between precipitation and latent heating over southeastern Mediterranean Sea and surrounding continental areas

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The TRMM Precipitation Radar (PR) observes the southeastern Mediterranean basin over which there is active precipitation activity during the Autumn-Winter wet season. Because there has been little emphasis on understanding precipitation structures directly over the Mediterranean Sea itself (virtually all studies have focused on land-based radar and rain gauge datasets), this talk will focus on contrasting the vertical structures of precipitation, found within storm episodes, between land and sea environments. We also compare the passive microwave signatures of precipitation systems and their correlations with the vertical radar observations over the Mediterranean with those of systems over 4 other mid-latitude regions: the Atlantic coast of the Maghreb, the Eastern Seaboard of the South-Eastern United States, frontal and pineapple-express systems off Southern California, and the Yellow Sea between China and Japan.