

Analyzed Report 12

Doppler wind profiler reflectivity recorded at two minute time resolution has provided the most continuous record and detail of small scale humidity fluctuations. The later period was chosen because of the significant descent with time of an elevated inversion indicated by the radar data. Doppler acoustic sounder (sodar) reflectivity data provided a good record of inversion height. The analysis in progress of the various data sets for two adjacent two day periods from 11 July to 14 July is described. Some additional data were available from instrumented aircraft although scheduling flights in the neighborhood of the island was difficult due to restrictions on the air space. The earlier period was chosen because the marine inversion was unusually high and there was increased frequency of rawinsonde launches at SNI. Other relevant data were collected at SNI near the radar and rawinsonde launch sites.



