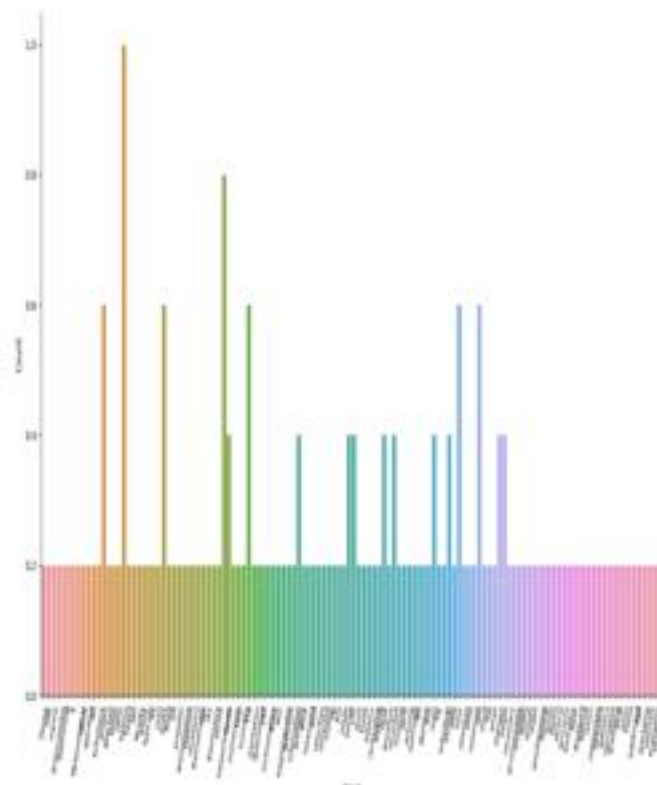


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The intention was to keep a minimum of one probe at or just above cloud top; small changes in balloon height were necessary to accommodate changes in inversion height. The ability of the balloon system to make simultaneous measurements at several levels allows the vertical structure of the boundary layer to be displayed without resort to composites. Turbulent statistics were calculated from 2 hour periods, one straddling local noon and one at night. Six probes were available for the daytime measurements, five for the night. Sufficient information is available to allow the measured wind velocities to be corrected for the motion of the balloon. Data were therefore recorded from morning to early evening, and again for a period overnight. Data were recorded at 4 Hz for individual periods of a little over an hour.



[illegible]