

## **54) POSTER**

### **The meteorological conditions during the LBA CLAIRE - 2001 Mission**

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The Claire mission was held in Manaus area in July 2001. This mission had the objectives to collect atmospheric chemistry data in order to characterize the convective processes in Amazonia. This work deals with the meteorological condition during this experiment. The solar radiation show pulses of low and high values associated with the presence of mesoscale systems. The Bowen ration was tipically around 0.30. On days July 8, 16, 22-23 e 28-29 the solar radiation were low, with high rate of precipitation: 16.8, 14.2, 13.8, 34.2mm respectively. The CAPE (Convective Available Potential Energy) was typically around 1600 J.kg<sup>-1</sup>, with the exception for the rainy days. The liquid water content was around 4.5 g.cm<sup>-2</sup> for the whole experiment. During the period from July 3 – 13 the windflow was from east at 1000hPa. On days July 15 – 18, a squall line crossed Manaus changed the wind direction to the North. The wind at 500hPa is from east for the whole Amazonia. The squall line conditions will be full described.