

Weather Report (2010/03/11)

In March 11th, the observations made at Meteorological Facilities of CLA showed few clouds above Alcântara during the day, approximately 4/8. Few types of clouds were observed during this day, only cirrus and cumulus. The cumulus and cirrus base height was about 570 and 9000 m, respectively. The bars in Fig. 1 shows wind direction. Those were predominantly from Northeast – NE. In the same figure can be noted that the afternoon was the part of the day that presented the greatest wind speed values (grey line). During the morning the wind was near to zero. Hourly variations of the air temperature and mixing ratio are presented in Fig. 2. A minimum and a maximum of air temperature were observed, computing 5 °C difference between each one, with minimum along the morning and maximum in the afternoon. It can be noted in Fig. 2 that the mixing ratio showed little variation, except to minimum values between 16 and 18 UTC. The sea level pressure variation is shown in Fig. 3. No rain was observed all day including the radar. The global circulation to relate to El Niño did not change. Subsidence movement continued above the area. The Skew T – log P diagram obtained by the radiosondes at the Meteorological Facilities of CLA can be seen at Fig. 4.

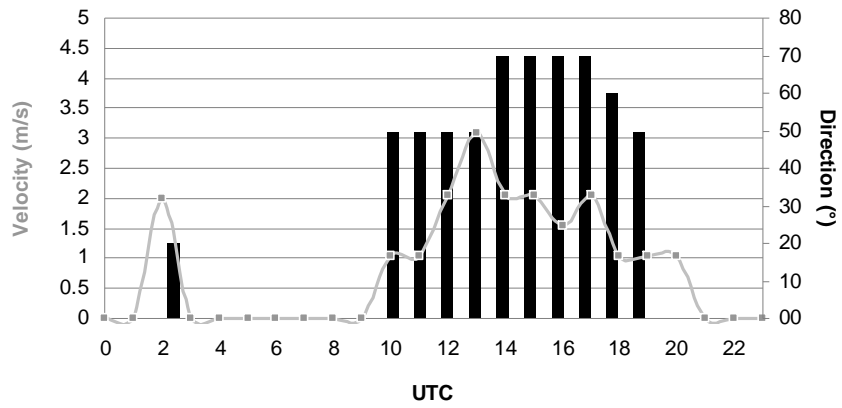


Figure 1 – Hourly wind direction and velocity for 2010/03/11.

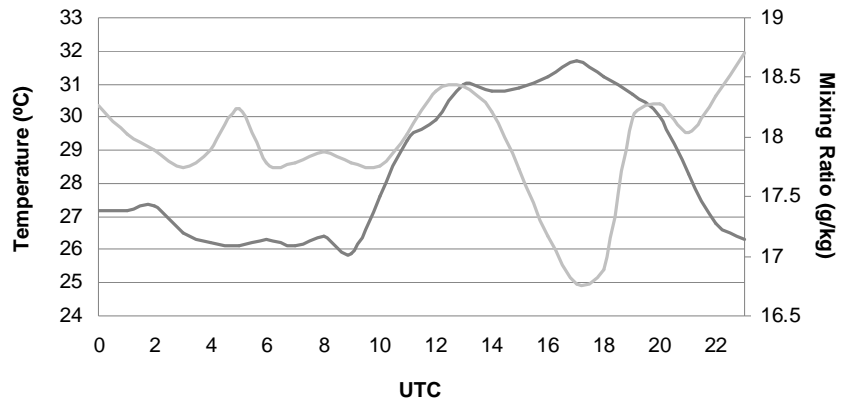


Figure 2 – Hourly temperature (black) and mixing ratio (gray) for 2010/03/11.

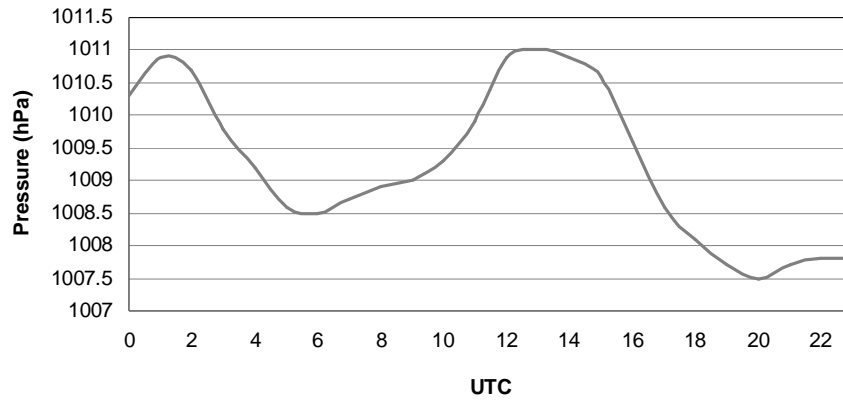


Figure 3 – Hourly sea level pressure for 2010/03/11.

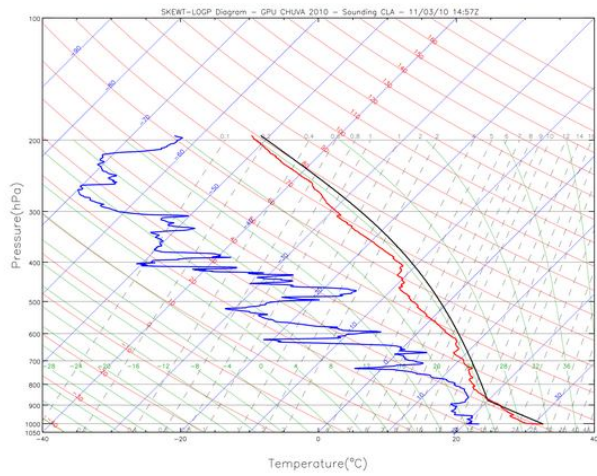
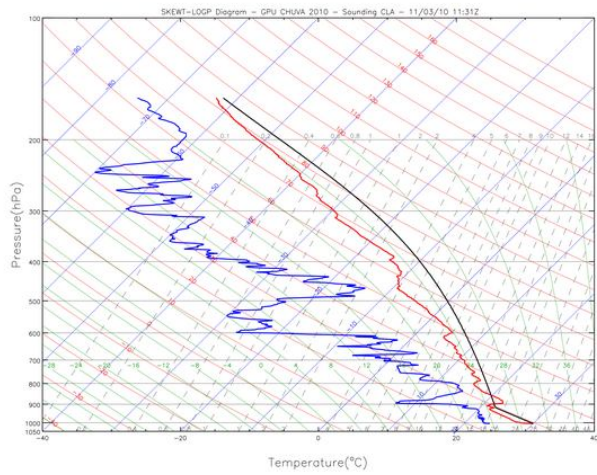
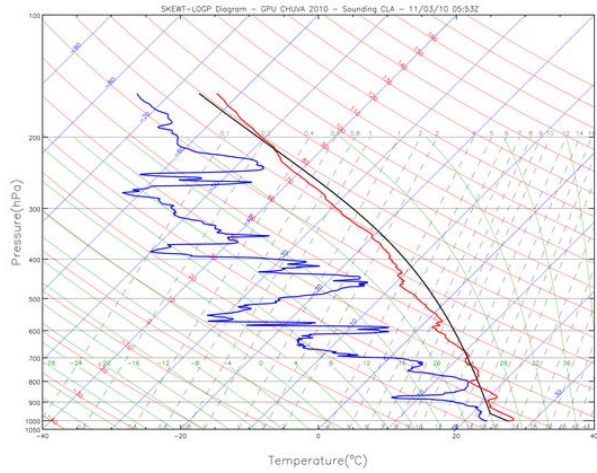


Figure 4 – Sequence of SkewT LogP diagrams. Continue.

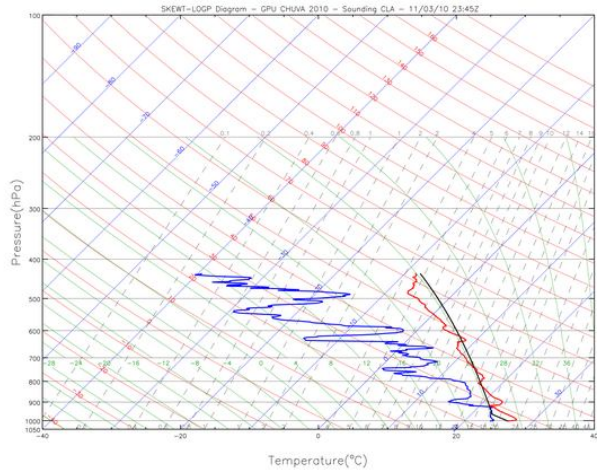


Figure 4 – Conclusion.