

Aerosol profiles from a balloon flight from Niamey, Niger, (13.5°N , 2.2°E) on 18 August 2006 (09:00-12:20 UT). The measurements included aerosol between 0.15 and $10.0\ \mu\text{m}$ in radius in 12 sizes, and pressure/temperature. The aerosol instruments are built by the University of Wyoming, and the pressure/temperature sensor is from Vaisala.

The 1 figure shows the ascent and descent aerosol concentration, temperature and frost point profiles vs altitude.

The oscillations in temperature occur as ventilation of the sensor decreases on slow descent, and the temperature sensor swings into and out of the sun.

The large particles observed on descent appear to an artifact of the descent sampling environment. It appears that something was being released from the balloon/ballast system to cause the contamination.

The ascent file is quite normal.

There was no position information on the instrument. The flight track can be obtained from CNES.

