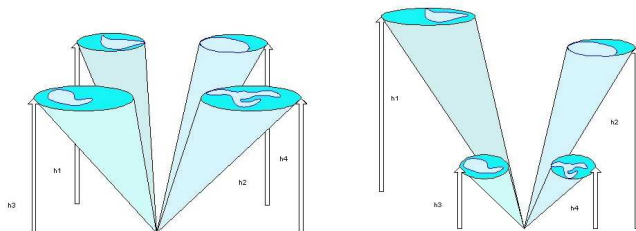


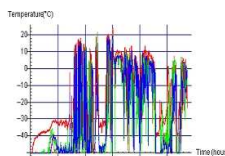
CIR4 cloud cover and height of cloud layers estimations



Sensor and one pyrometric card (T sky and T air)



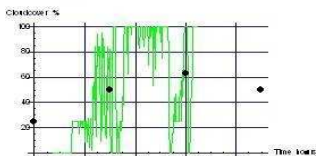
1) T1,...T4 sky brightness and T air measurement with 4 pyrometrics sensors and



4 T sky temperatures

2) Statistic precessing

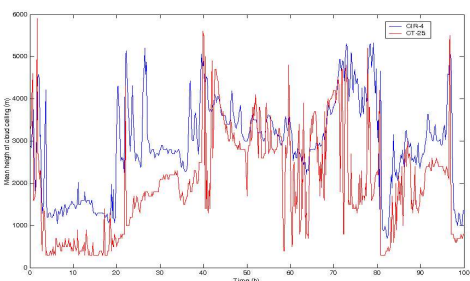
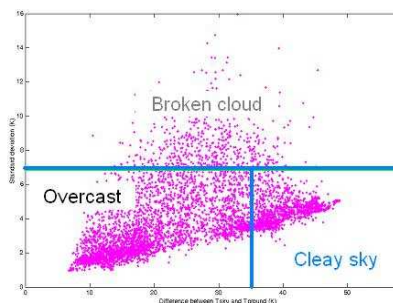
3) Calcul of nebulosity using time serial variations (10 min)



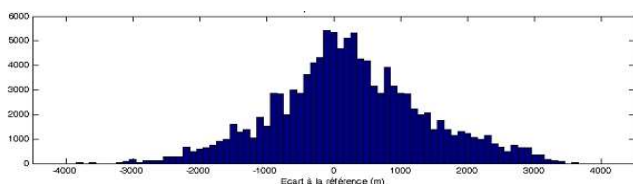
Black points are human observations

4) Using vertical atmosphere adiabatic profile (5,5° / 1000 m), evaluation of the different cloud cover levels

5) Point (T sky – Tair, Standard deviation) location in graph to determine correction and to calculate cloud level height



Blue curve) in comparison with CT25K ceilometer (Red curve)



Differences (H CT25K / CIR4 in meters) Histogram

Ways of improvement : ventilated pyrometrics blocs

