

# AIRBORNE AEROSOLS, DUST PROPERTIES AND DISTRIBUTION

## Size and density (local)

Airborne Particle Counter (or Dust Meter)  
(Pacific Scientific Instruments)

6 channels: 0,3 – 0,5 - 1 – 3 – 5- 10 $\mu$ m

Caudal: 1 c.f.m.

Light source: laser diode

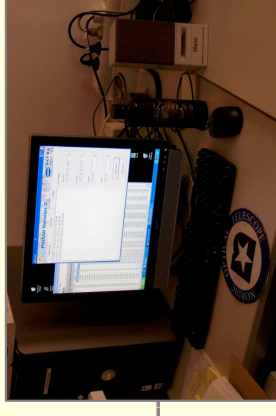


Fig 2e: Airborne particle counter at NOT telescope

- ❑ Similar to the Airborne Aerosols Counter at Paranal

<http://www.eso.org/gen-fac/pubs/astclim/paranal/aerosol/>

- ❑ Calibrated with the TNG dust counter.

*Cross calibration between particle counters operating at the Roque de los Muchachos Observatory.*

TNG Newsletter A.M. Varela & A. Ghedina. April 2005.

- ❑ Installed at the NOT service area since February 2007

- ❑ Sample rate of 1 data every minute.

- ❑ Access to data <http://www.not.iac.es/weather/dust.php> (no still public)

- ❑ Access to graphics click on **Airborne Dust Meter**

in <http://www.iac.es/project/sitesting/site.html>