

- Timeframe between landing and take off : 50 minutes



Various activities :

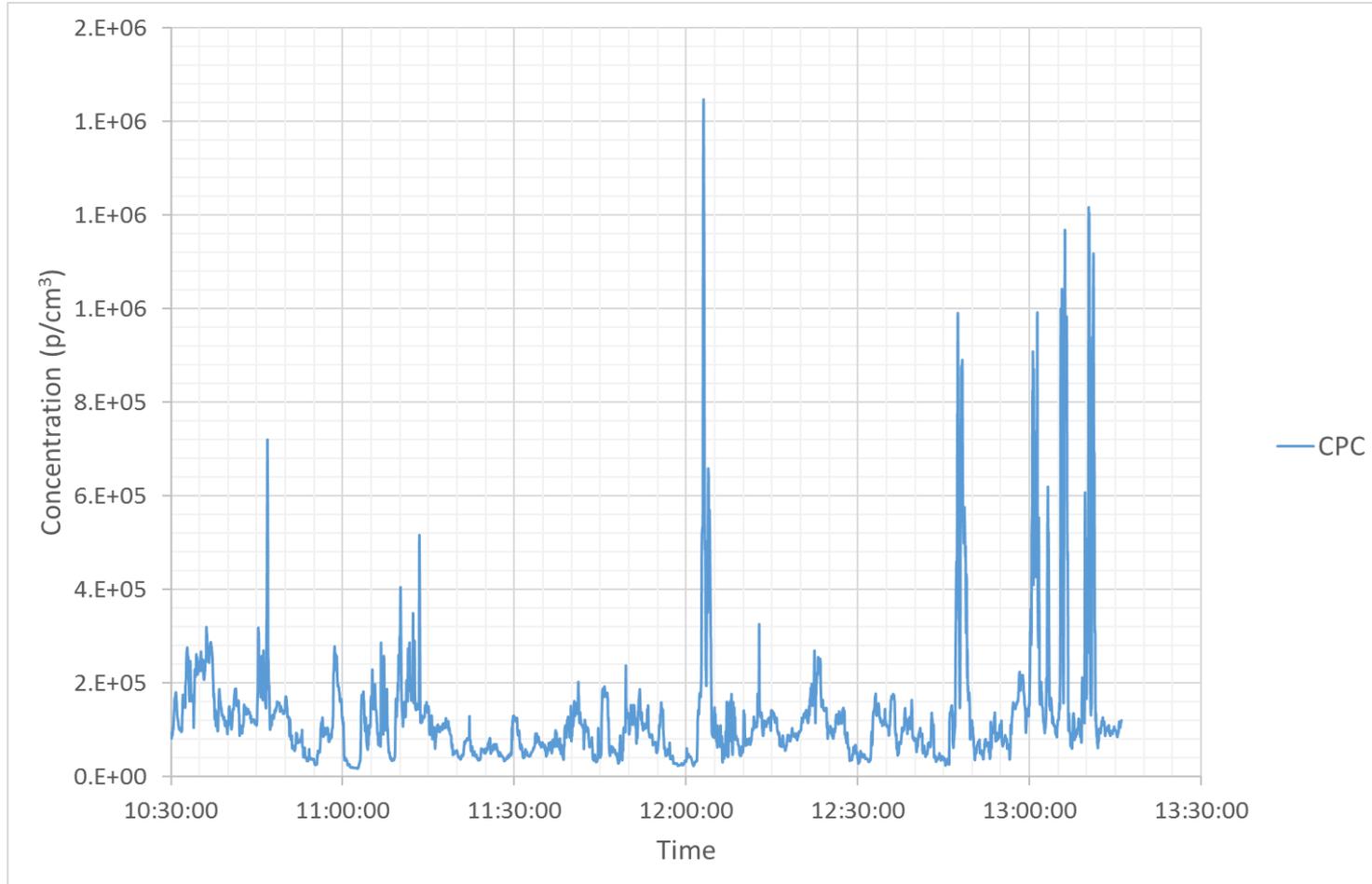
- Luggage unloading and loading
- Food loading
- Cleaning
- Fuelling

Co-activity :

During this timeframe, simultaneous landing / take off of numerous other planes

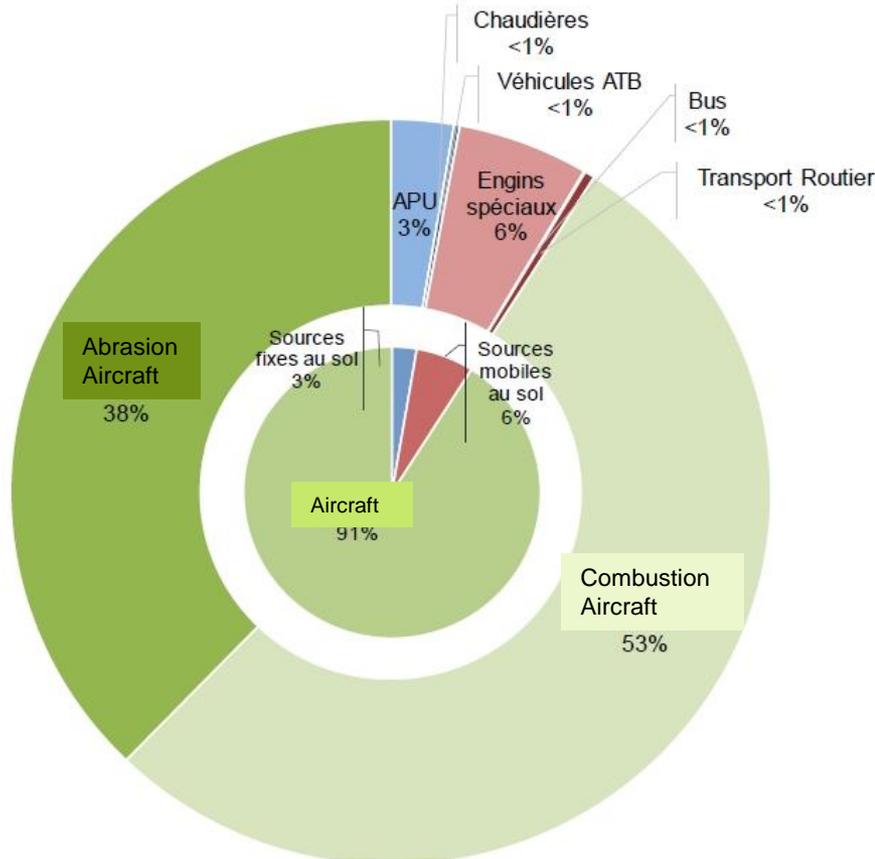
Concentration evolution recorded by CPC

- Each peak corresponds to a landing or a take off



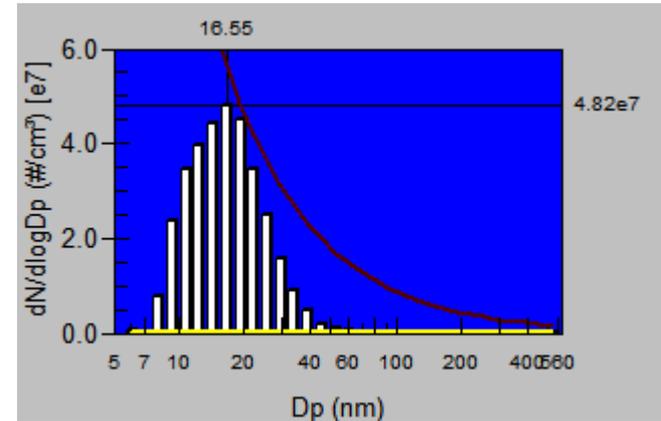
SURVEY OF ATMOSPHERIC POLLUTION

91 % of emissions of PM10 is due to aircraft in airport environment



PM10 emissions by type of sources

Source Act'air_2014_V3.2



PSD of a medium-haul aircraft at take off

Modal diameter : 17 nm

Concentration in number: $2 \cdot 10^7$ p/cm³

For Survey what is the best metric :
Mass (PM) or Number ?