

Intercomparison of Condensation Particle Counter

Project No.: CPC-2016-2-12

Basic information:

Location of the quality assurance: TROPOS, lab: 130

Delivery date: -

Setup in the laboratory: April 05, 2016

Comparison period: April 05, 2016

Principal Investigator	Home Institution	Participant	Instrument
Alfred Wiedensohler	TROPOS	-	DE-TROPOS total TSI CPC Model 3010 # 2353

TROPOS Reference Instrument: Electrometer: TSI model 3068B
70838596

Additional Equipment:

- Bubble flow meter 'Giliblator', Gilian (Sensidyne)

Summary of Intercomparison:

Pre-status:

The TSI CPC Model 3010 was in good condition.

Final status:

The TSI CPC Model 3010 passed the quality standards of ACTRIS and GAW.

On April 05, 2016, the DE-TROPOS total TSI-CPC 3010 #2353 participated in the TROPOS ACTRIS-2 CPC-Workshop.

1. Status of the wick: The wick was clean.
2. Status of the CPC: The CPC was working properly.
3. Final CPC-Workshop: The CPC 3010 reached 99% efficiency at 40 nm. The Dp50 is at 13.9 nm. The CPC efficiency curve corresponds to the standard.

final-status: 05.04.2016

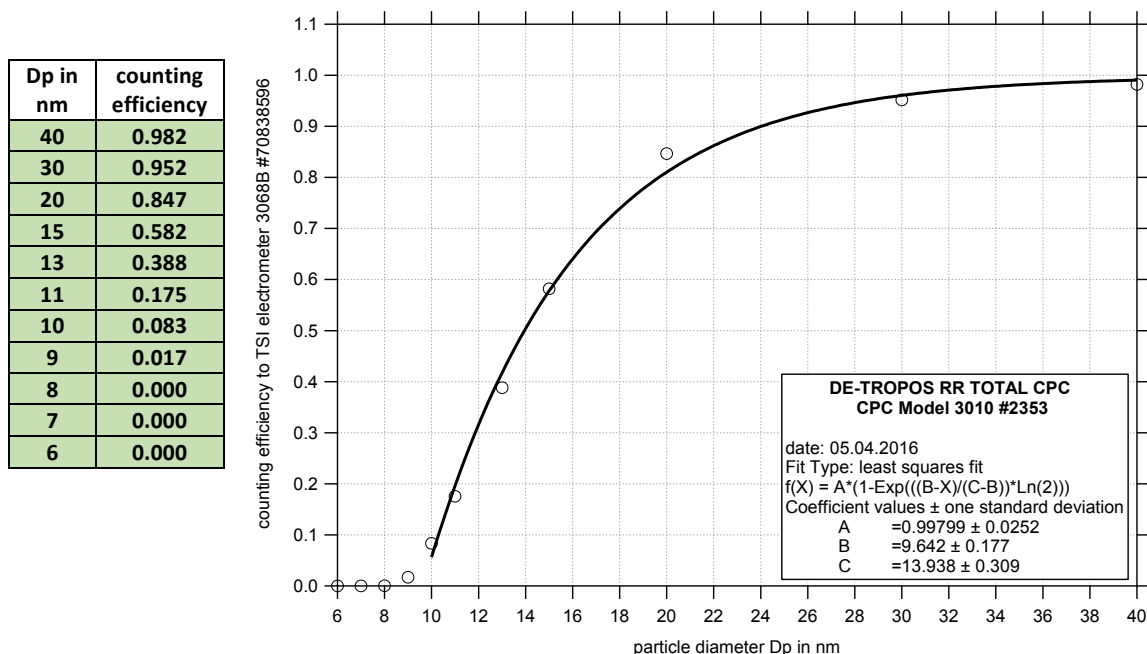


Figure 01: CPC efficiency curve. Based on Electrometer TSI 3068B. Serial number: 70838596