

Intercomparison of Condensation Particle Counter

Project No.: CPC-2016-3-7

Basic information:

Location of the quality assurance: TROPOS, lab: 130

Delivery date: -

Setup in the laboratory: April 26, 2016

Comparison period: April 26, 2016

Principal Investigator	Home Institution	Participant	Instrument
Harald Flentje	DWD Albin-Schwaiger-Weg 10 D-82383 Hohenpeißenberg Germany	-	DE-DWD TROPOS MPSS Hohenpeißenberg TSI CPC Model 3772 # 70711210

TROPOS Reference Instrument: Electrometer: TSI model 3068B
3068133002
Last calibration in April 2016

Additional Equipment:

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

Summary of Intercomparison:

Pre-status:

The TSI CPC Model 3772 was in good condition.

Final status:

The TSI CPC Model 3772 passed the quality standards of ACTRIS and GAW.

On April 26, 2016, the DE-DWD CPC Hohenpeißenberg 3772 #70711210 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 TSI CPC Model 3772 reached 99% efficiency at 40 nm. The Dp50 is at 8.8 nm. The CPC efficiency curve corresponds to the standard.

pre-status: 26.04.2016

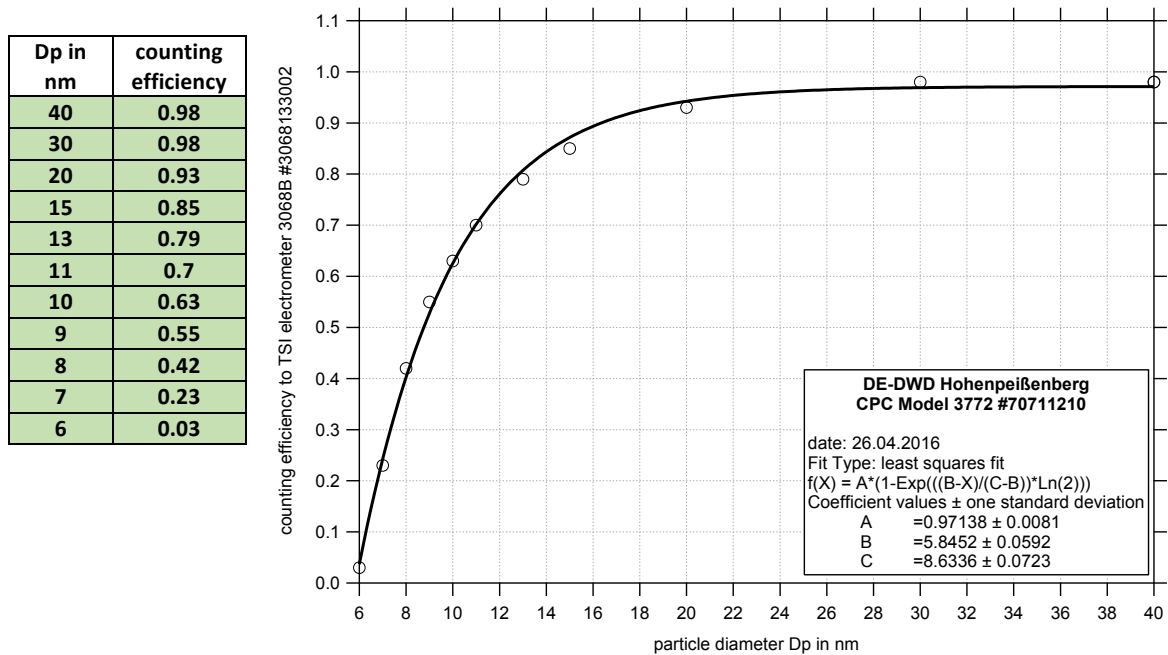


Figure 01: CPC efficiency curve. Based on Electrometer TSI 3068B. Serial number: 3068133002

final-status: 26.04.2016

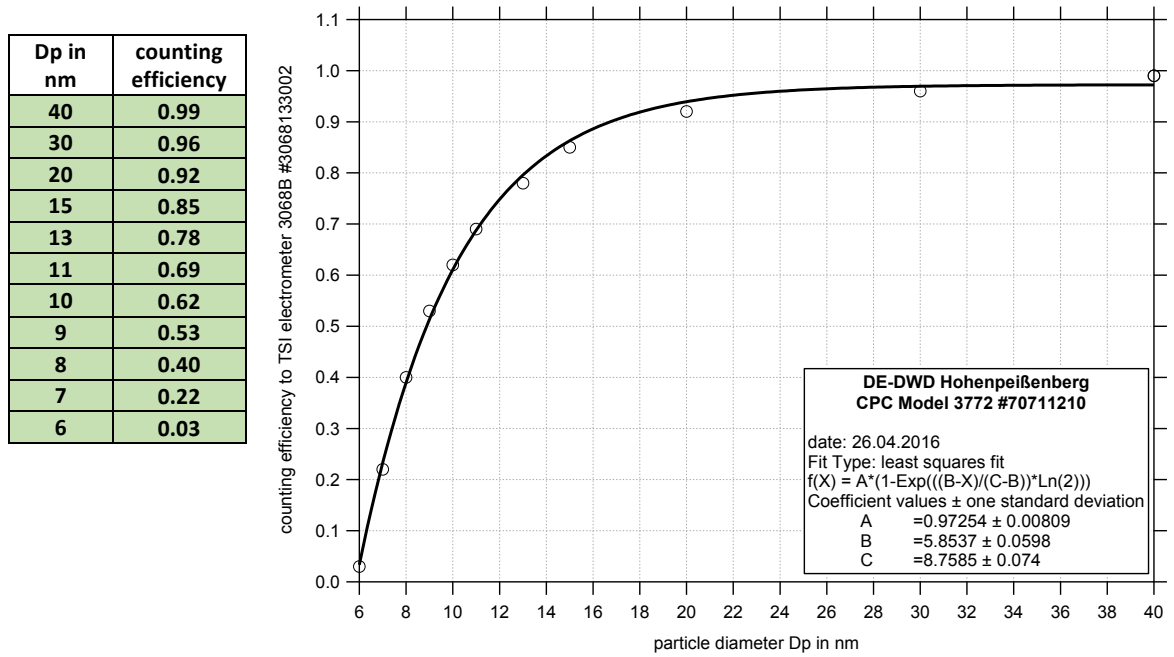


Figure 02: CPC efficiency curve. Based on Electrometer TSI 3068B. Serial number: 3068133002