

Intercomparison of Condensation Particle Counter

Project No.: CPC-2016-1-4

Basic information:

Location of the quality assurance: TROPOS, lab: 130

Delivery date: -

Setup in the laboratory: January 25, 2016

Comparison period: January 26, 2016

Principal Investigator	Home Institution	Participant	Instrument
Andreas Massling	Aarhus University Department of Environmental Science Frederiksborgvej 399 Denmark	Andreas Massling	DK-ENVS TSI CPC Model 3010 # 2405

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 send by ENVS for cleaning and repair.

Final status:

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

On January 26, 2016, the DK-ENVS 3010 #2405 participated in the TROPOS ACTRIS-2 CPC-Workshop.

1. Status of the wick: We cleaned the saturator.
2. Status of the CPC: The TSI CPC Model 3010 was send by ENVS for cleaning and repair.
3. Final CPC-Workshop: The TSI CPC Model 3010 reached 100% efficiency at 30 nm. The Dp50 is at 11.7 nm. The CPC efficiency curve corresponds to the standard.

final-status: 26.01.2016, Tuesday

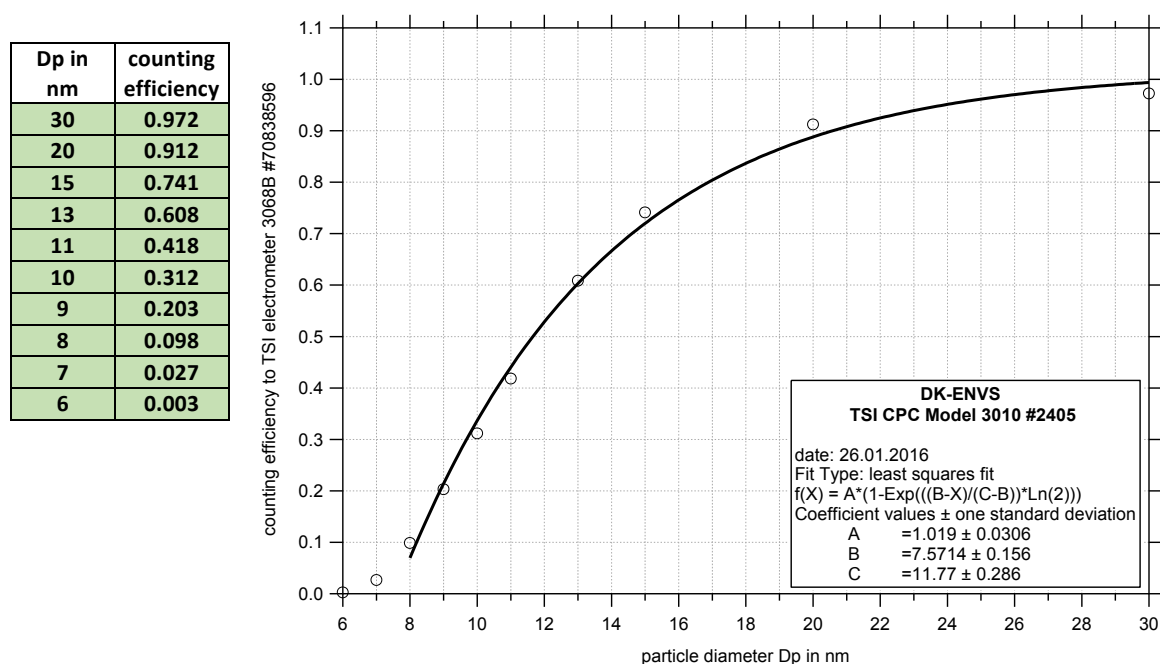


Figure 01: CPC efficiency curve. Based on Electrometer TSI 3068B. Serial number: 70838596