



TNA User Report

*The completed and signed form below should be returned by email to
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Project title	Development of monitoring and analysis techniques for atmospheric composition in Korea
Name of the accessed calibration center	WCCAP
Number of users in the project	1
Project objectives (max 100 words)	The objective of this project is to monitor and characterize long-term variation of atmospheric composition including aerosol. NIMS is operating three long-term monitoring stations. The data from this project are utilized to study aerosol characterization, source apportionment, long-range transported air pollutants and they also contribute to WMO/GAW program.
Description of work (max 100 words):	JGS station is registered as WMO/GAW regional stations. Condensation particle counter data at JGS will be submitted to World Data Centre for Aerosol from this year. Therefore, the instruments should be well-calibrated and quality assured. World Calibration Centre for Aerosol Physics provides a reliable calibration result and Q/A report for particle counter. We would like to participate in the WCCAP workshop for Condensation particle counter (CPC).

Principal Investigator's and group's information	
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Activity domain ¹	Earth Sciences & Environment
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User status ³	Researcher
New user	

User 1 Information ⁴	
First name	
Family name	
Nationality	
Activity domain	
Home institution	
Institution legal status	
Email	
Gender	
User status	
New user	

User 2 Information	
First name	
Family name	
Nationality	
Activity domain	
Home institution	
Institution legal status	
Email	
Gender	
User status	
New user	

¹ Physics; Chemistry, Earth Sciences & Environment; Engineering & Technology; Mathematics; Information & Communication Technologies; Material Sciences; Energy; Social sciences; Humanities.

² UNI= University and Other Higher Education Organisation;

RES= Public Research Organisation (including international research organisations and private research organisations controlled by public authority);

SME= Small and Medium Enterprise;

PRV= Other Industrial and/or Profit Private Organisation;

OTH= Other type of organization.

³ UND= Undergraduate; PGR= Post graduate; PDOC= Post-doctoral researcher; RES= Researcher EXP= Engineer; ACA= Academic; TEC= Technician.

⁴ Reproduce the table for each user who accessed the infrastructure

Trans-National Access (TNA) Scientific Report

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Name of the PI: Jeongeun KIM

Calibration center's name and location: WCCAP, Leipzig, Germany

Campaign name and period: Condensation particle counter intercomparison workshop (CPC-2019-5-5)

Text:

- Introduction and motivation

JGS station is registered as WMO/GAW regional stations. Condensation particle counter data at JGS will be submitted to World Data Centre for Aerosol from this year. Therefore, the instruments should be well-calibrated and quality assured.

- Scientific objectives

The objective of this project is to monitor and characterize long-term variation of atmospheric composition including aerosol. NIMS is operating three long-term monitoring stations

- Reason for choosing the calibration facility

World Calibration Centre for Aerosol Physics provides a reliable calibration result and Q/A report for condensation particle counter.

- Method and experimental set-up

- Data description

- Preliminary results and conclusions

Method, experimental set-up, and the results are well stated in the intercomparison report issued by WCCAP, TROPOS.

(<https://www.actris-ecac.eu/files/ECAC-report-CPC-2019-5-5.pdf>)

- Outcome and future studies

Data from the CPC will be submitted to World Data Centre for Aerosol (WDCA) and will be used to study aerosol characterization, source apportionment, and long-range transported air pollutants

We sent the instrument only without person to handle with. WCCAP scientist and staffs helped to calibrate the CPC in the workshop as well as shipping, packing, customs clearance, etc. We are very grateful to have an opportunity to attend the workshop and to confirm the performance of the instrument.