



## Audit Report „Chacaltaya“, Bolivia



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Date: June 20 to June 28, 2014

The third official audit on the mountain station “Chacaltaya”.

### General

I found the station in good condition. Manuals for the instruments and written logbooks have been available at the station. Last year we had the following problems: “After the trouble with the flooding of the whole system last year, I checked the DMA of the SMPS system. I realised that the DMA is not in a good condition, inside the head was burnt. We decided to produce new parts of the DMA and bring them the next time.” We changed the DMA in the SMPS System. The system worked well again.

We used the time and gave the whole group of “Chacaltaya” a third SMPS and MAAP instruction.

Listing all operating systems:

- **Scanning Mobility Particle Sizer (SMPS)**
  - **SMPS system is working well after change DMA. We did a whole check of the system and calibrated the flow. During 2014 we had no problems anymore.**
- **Multi-Angle Absorption Photometer (MAAP)**
  - **It is working well. We did a whole check of the system and calibrated the flow. We have no problems in 2013.**
- Aethalometer (Magee Sci.)
- Nephelometer (Aurora Tech.)
- Neutral Cluster and Air Ion Spectrometer (NAIS)
- Thermo Scientific Model 49i Ozone Analyzer
- Carbon monoxide analyzer Horiba APMA-370
- High-Volume Sampler
- Carbon dioxide analyzer
- Automatic Weather Station (AWS)

### Conclusion:

The station is working properly. We changed the size range back to the maximum after DMA repair.