Issues raised in the audit

1. Prior to the audit both MAAP and Nephelometer data for 2013 could not be found in the EBAS data base

This data has been submitted to EBAS way earlier, we do not know why it is not visible.

2. A whole air inlet may be a better solution instead of a PM10.

We have also whole air inlet at the site, it suffers similar problems with cloaking of snow and ice. We have to accept some level of data gaps due to this issue. We will certainly try to find improvements to this issue.

3. A bundle dryer Perma Pure type DD-600 is used an aerosol dryer for the Nephelometer. Bundle dryers are known to cause particle losses and are therefore not suitable for aerosol inlets. We recommend changing to another Nafion dryer.

We consider actions accordingly. DD-600 is also sold as an aerosol dryer (which is of course not a quarantee). We have not oberved any difference in the data before installation and afterwards. Dryer causes particle loses to bigger particles, concentration of these is very low at our site.

4. The DMPS however does not completely fulfill the required ACTRIS standards. Especially, since FMI is full partner in ACTRIS, recommendations should be followed.

Due to CPC3010s and other electronics will get old and no spare parts are available, new series is being built (with at ACTRIS standards) with new CPC's and electronics. This will be send to calibration/ intercomparison within ACTRIS-2 to Leipzig early 2016. With this in view old version has not being updated.

5. Again, we recommend the send the whole DMPS plus the additional CPC to the ECAC activity as soon as possible.

As this CPC series is getting old, it will be replaced with CPC of new series, the new one will be send to ECAC activity within ACTRIS_2.

6. At concentrations below 100 cm^{-3} concentrations show two distinct lines which cannot be explained by the dataset

We have not notice this earlier, have to check what is causing this and whether this occurs only in the test data.

7. Again, the integrating nephelometer and MAAP has to be sent once to a calibration activity of the ECAC.

These will be send to calibration/ intercomparison within ACTRIS-2.