Atmos. Meas. Tech. Discuss.,
doi:10.5194/amt-2020-213-AC4, 2020

Atmospheric Measurement Techniques Discussions

Interactive comment on "Evaluation and optimization of ICOS atmospheric station data as part of the labeling process" *by* Camille Yver-Kwok et al.

Camille Yver-Kwok et al.

camille.yver@lsce.ipsl.fr

Received and published: 12 October 2020

We would like to correct our answer for one of the comments:

P13 L11-13: What were the sources of leaks for GAT and STE? It is not often that papers include lessons learned information, which is often very useful to other stations in diagnosing problems of their own.

There seems to be a misunderstanding in regards to potential leakages at GAT and STE stations. During the period with longer stabilisation times, leakages were neither confirmed nor disproven due to missing leak tests. Leakages affecting the stabilisation

time have to be located between the calibration cylinder, the rotary valve and the instrument. Therefore ambient air measurements are not affected. However, the potential leak would have been minor resulting in valid calibrations. This was independently confirmed by the agreement of the target tank value within the WMO compatibility goal for CO2 and CH4. The implementation of the first ICOS stations and their labelling process showed that the communication between ATC and stations PIs needs to be improved. Therefore, a better feedback mechanism will be established to track the fulfilment of the ATC's recommendations by the stations.

Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2020-213, 2020.