

Fiducial Reference Measurements for Greenhouse Gases (FRM4GHG): status of the project

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Fiducial Reference Measurements for Greenhouse Gases (FRM4GHG) is a European Space Agency (ESA) funded project aiming at the assessment of several ground-based spectrometer types for the precise measurement of greenhouse gases, with a focus on CH₄, CO and CO₂. To achieve this objective, several instruments have been collocated at Sodankyla, next to the TCCON Bruker 125HR instrument, and will be performing simultaneous measurements during a campaign covering all seasons during which there is enough sunlight. The ground-based spectrometric measurements are complemented with vertical profile data of the GHG from regular AirCore launches at the campaign site.

The campaign started in March 2017; since the end of April all instruments are up and running. The presentation will discuss the campaign set-up, the status of the instruments and the ongoing observations.