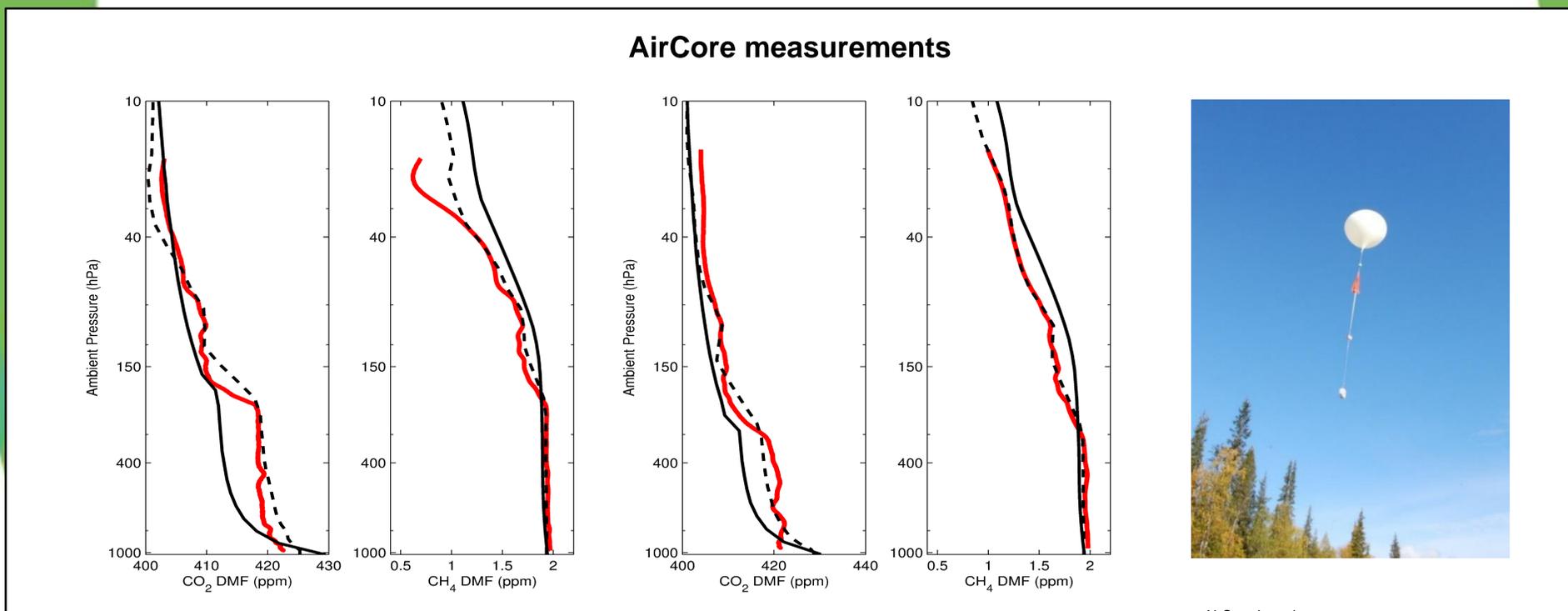
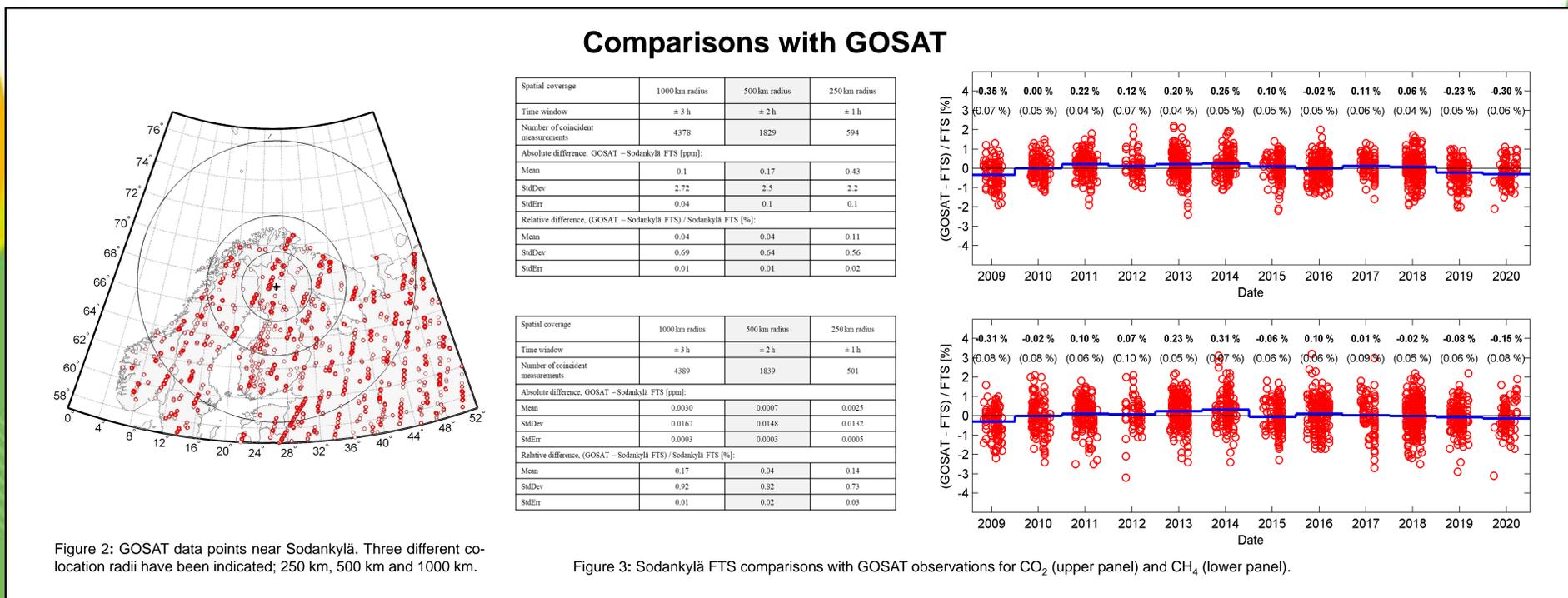
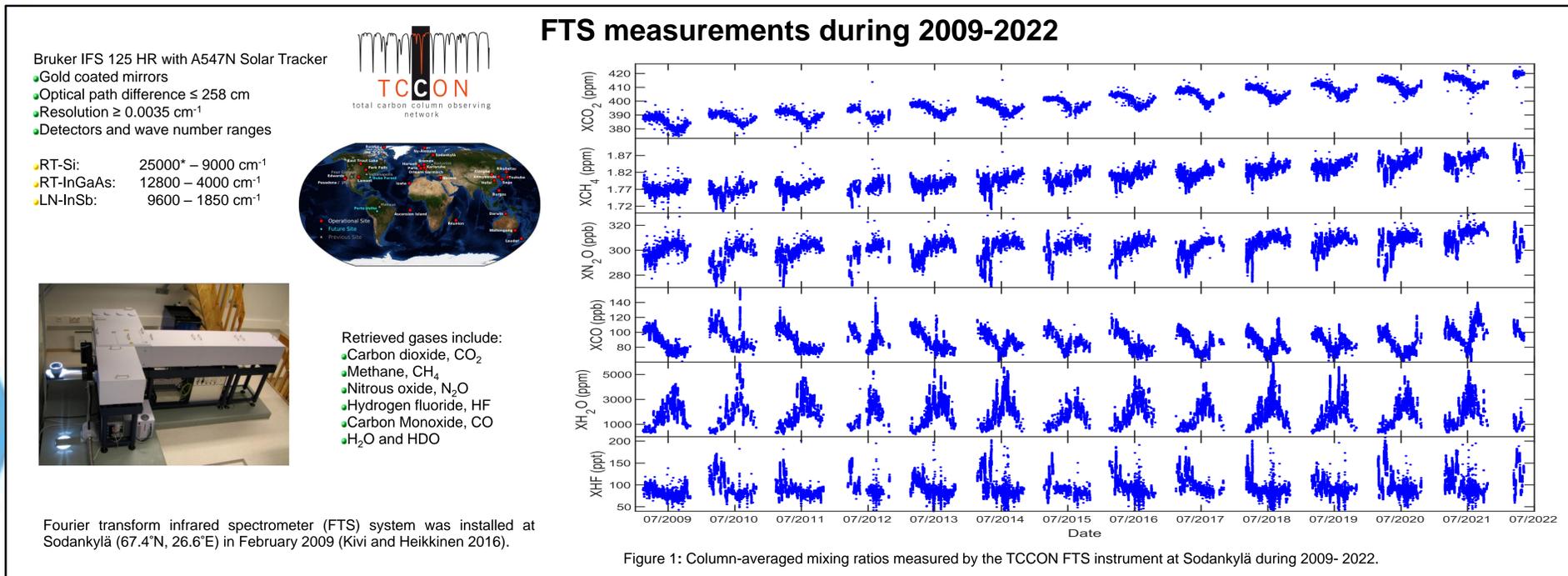


# FTS and AirCore measurements at Sodankylä

Rigel Kivi (1), Pauli Heikkinen (1), Juha Hatakka (1), Tuomas Laurila (1), Huilin Chen (2)

(1) Finnish Meteorological Institute, Finland, (2) Center for Isotope Research, University of Groningen, Groningen, Netherlands



**AirCore** is an atmospheric sampling system to measure vertical profiles of greenhouse gases in the troposphere and stratosphere (Karion et al., 2010). AirCore profile measurements of  $\text{CO}_2$ ,  $\text{CH}_4$  and CO have been performed at Sodankylä during all seasons.

#### Conclusions

FTS measurements have been performed at Sodankylä since early 2009. Here, GOSAT  $x\text{CO}_2$  and  $x\text{CH}_4$  values were compared to our FTS measurements. Within the 500 km  $\pm$  2 h coincidence criteria the mean difference was found to be 0.04 %  $\pm$  0.01 % for  $x\text{CO}_2$  and 0.04 %  $\pm$  0.02 % for  $x\text{CH}_4$ . We have performed year around AirCore measurements at Sodankylä. GGG2020 a priori profiles are generally in good agreement with our AirCore measurements.

#### References

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