

# Final response to minor edits

13: 'its' is not defined. Suggest: "Despite the limited spatiotemporal coverage of the observations..."

> "Despite the limited spatio-temporal coverage of the observations, we were able to identify the best performing transport [...]" l.13-14

Figure 1: Consider using a color for the ATR42 flight track that is different than Sea and Ocean landcover type

> New ATR42 trajectory color is black

85: Hall et al. 2021 is about CO<sub>2</sub> and this paper is about CH<sub>4</sub> so the reference is not appropriate.

> Changed the reference to Dlugokencky et al., 2005, "*Conversion of NOAA atmospheric dry air CH<sub>4</sub> mole fractions to a gravimetrically prepared standard scale*", DOI:10.1029/2005JD006035

125: The Picarro G2401 also measures CO, but the G5310 measures CO with higher precision. The 5310 also measures N<sub>2</sub>O.

> "After sampling, AirCores were retrieved and analysed on the ground, using the G2401 instrument from Picarro© (Picarro, 2008) which measured CH<sub>4</sub>, CO<sub>2</sub>, CO and H<sub>2</sub>O." l.106-107

and

"Also on board the ATR42 were two Picarro™ models. One was the previously mentioned G2401 and the other was the G5310 that measures CO with higher precision as well as N<sub>2</sub>O. Other instruments installed on the aircraft also gathered additional meteorological data." l. 121-124