EMADDC: high volume, high quality, and timely wind and temperature observations from aircraft surveillance data (Mode-S EHS)

We thank Bruce for reviewing!

Detailed comments

line 27. "Dedicated aircraft" - "Some commercial aircraft" would be better done

40 "preferred above" - "preferred to" done

40 "Since corrections" - "Corrections" (or combine the two sentences: "paramters, since corrections") done

191 "Using the found datum for an aircraft" - "Using this value for the aircraft" (also change datum to value line 189) done

200 "are not regular flying" - "are not flying regularly" done

201 "high correction datum values" - "large corrections" done

202 "datum corrections values" - "correction values" done

206 "The corrections for these aircraft are invalidated and hence not used." - I suspect you mean that the winds from these aircraft are not used. It could be read that they are used with zero correction. *done* Some words have been added

223 "many of observations" - "many observations" done

237 "few tenth meter per second" - "few tenths of a meter per second" done

320-321 "outliers are identified using linear regression over individual aircraft's 30-second time windows"

A colleague pointed out that looking at a time-series of hours for an individual aircraft there are some suspect points (outliers). Some checking over a time period longer than 30-seconds should be considered. we will consider this when working on the next version of heading and temperature correction

354 "historic NWP" - "past NWP" done

355 "operational available" - "current" (matches past better) done

360 "These values are all within the acceptable range for use in for example data assimilation." It is worth mentioning the WMO Rolling Review of Requirements, see https://space.oscar.wmo.int/observingrequirements (I haven't done any comparison of the two) done we added some words

370 "as anchor observation" - "as anchor observations" done

370 "are generally launched at the main synoptic hours 00 UTC \dots " they are usually launched 40 or 45 minutes earlier. Perhaps "provide profiles centred on the main synoptic hours 00 UTC \dots " done we added some words

376 "has mostly" - "mostly has" done

379 "Reason" - "The reason" done

381 "radiosonde soundings" done

Figure 9. I suggest removing the legend from the first and last panels as they partially obscure the lines. Add vertical zero line to the first panel. Caption "middle pane" - "middle panel" (or use 'pane' for all three) done

458 "National Meteorological Hydrological Institutes" - "National Hydrometeorological Institutes" (usual term) done

Ruijgrok, G. J. J.: Elements of Airplane Performance, Delftse University Pers, 1990. "Delft University Press" There is a second edition 2009 https://repository.tudelft.nl/record/uuid:9ff3c7e0-e221-4d8f-bf9e-e144d3cacdc1 not done thanks for the link, next time we will use this reference