

***Interactive comment on* “Tracking the Choco jet since the 19th Century by using historical wind direction measurements” by David Gallego et al.**

Anonymous Referee #1

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The use of ICOADS data wind direction data to document long time variability of the Choco Jet seems to be OK, but the uncertainties in the use of this data in the the long term trend analysis starting ion the XIX Century may be complicated by uncertainties in this early data, as compared to the NCEP reanalyses. I have marked directly on the PDF version some comments, doubts and questions I have for the authors. I am not sure if with this merging of ICOAS and NCEP reanalyses one is able to study trend, decadal var5iations or even the stability of interconnection patterns. There is a need for some physical explanations of some of the correlation patterns I9investigated here, for instance, that correlation between the Choco jet and SST in Nino3.4 months later. Figure 7 needs some indicators of uncertainties in the ICOADS data, because these uncertainties are perhaps higher that those from recent decades from the reanalysis.

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Discussion paper



Minor and major comments are included directly in the PDF version of the paper.

Please also note the supplement to this comment:

<https://www.earth-syst-dynam-discuss.net/esd-2018-54/esd-2018-54-RC1-supplement.pdf>

Interactive comment on Earth Syst. Dynam. Discuss., <https://doi.org/10.5194/esd-2018-54>, 2018.

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