

## ***Interactive comment on “Countergradient heat flux observations during the evening transition period” by E. Blay-Carreras et al.***

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Received and published: 2 June 2014

Dear authors,

Due to the lack of response from several nominated second reviewers, I have had to intervene in the interest of time. I have read through the script and agree with reviewer 1 that it is well written and structured. I would ask you to heed each of reviewer 1's comments on the observational side. In addition, from the modelling side I would consider:

\* Relating your delayed transition idea to the 'demixing' idea of Nieuwstadt and Brost 1986. Are the two related?

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\* There are several existing parametrizations in weather and climate models that use counter-gradient mixing (e.g. Lock et al 2000, Holtslag and Boville 1993). Can you relate your observational results to these parametrizations?

Yours,

Bob Beare

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Interactive comment on Atmos. Chem. Phys. Discuss., 14, 7711, 2014.

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