

Interactive
Comment

***Interactive comment on* “Observation of a mesospheric front in a dual duct over King George Island, Antarctica” by J. V. Bageston et al.**

J. V. Bageston et al.

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Minor comments Pg. C6848 1) General questions: a) About the description of the evolution of the event.

REPLY: Same answer as before.

b) Does the event propagate into the imagers FOV or does it form inside the FOV?

REPLY: Same answers as before.

c) Is there any variation in the observed wave parameters or intensity? REPLY: Same answers as before.

d) Does the front steepen as it progress across the FOV?

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REPLY: No, we could not verify this characteristic through the cross sections of the event obtained at three different times. Because of this result we are not qualifying the front as a bore anymore, but we are just calling of a Mesospheric Front in a Thermal-Doppler duct.

2) Since the vertical wavenumber is estimated, could the author also estimate the vertical wavelength? For a bore to fit inside the duct, I would imagine the vertical wavelength of the trapped signature should match the depth of the duct.

REPLY: Same answer of the previous version.

Questions 3-5: Same answers as before.

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 16185, 2011.

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