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## ***Interactive comment on* “Quantification of waves in lidar observations of noctilucent clouds at scales from seconds to minutes” by N. Kaifler et al.**

**N. Kaifler et al.**

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We agree that the differences in obtained spectral slopes from the different NLC parameters are likely to be caused by the complex nature of the quantities compared to direct measurements of velocity fluctuations, coupled with the setup of a fixed ground station resulting in an Eulerian view.

We thank the referee for the interest and recommendations regarding analysis for acoustic waves. This is certainly an interesting topic. Today, the resolution of temperature and wind measurements which can be obtained by radar or resonance lidar

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do not allow for analysis beyond 5 min resolution. As new instruments are developed, the opportunity for these studies will eventually arise.

We have changed the axis of Fig. 5 and 6 to SI-units.

We have changed the coloring of Fig. 9 choosing a light background for better visualization:

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Interactive comment on Atmos. Chem. Phys. Discuss., 13, 7397, 2013.

ACPD

13, C5685–C5687, 2013

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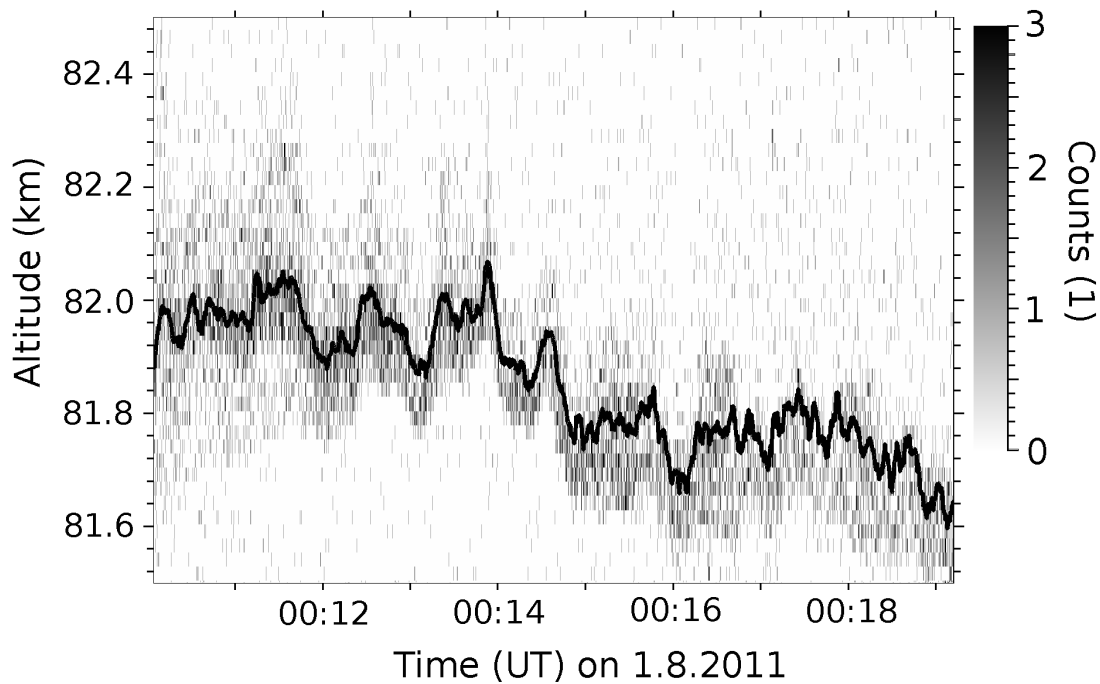
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**Fig. 1.** Fig. 9 with improved colors

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