

## ***Interactive comment on “Analysis of internal gravity waves with GPS RO density profiles” by P. Šácha et al.***

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This paper presents a method for the background separation from GPS RO density profiles. The idea behind this paper is original, and worthy of study. The paper is generally well written, the references are mainly useful and the figures are of good quality.

specific comments The topic is potentially interesting, but I think more evidence should be shown if this analysis pretends to replace the usual ones, based on temperature fluctuations. Maybe a larger statistic ( more than 60 cases) could help.

technical corrections:

C2511

Page 8312, Line 23: Internal gravity waves should be replaced by "IGW", as previously defined. Page 8313, Line 23: In that discussion Page 8315, Lines 8-11: The enhancement due to the tropopause kink should be clarified Page 8319, Line 2: Please detail the space-time criteria you adopted for consider two events to be close Page 8319, Line 3: Please explain the relevance of the Tohoku earthquake with respect to this work Page 8320, Line 3: Explain which definition of tropopause was used (cold point or WMO)

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