

***Interactive comment on “Influence of a component of solar irradiance on radon signals at 1 km depth, Gran Sasso, Italy” by G. Steinitz et al.***

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Received and published: 3 March 2013

We thank the reviewer for his comments and suggestion. Our response is as follows:

1. In the abstract, we added the phase of the diurnal variation.
2. We clarified in the text (in reference to Fig.5) what is meant by signal forms which are "symmetric and asymmetric forms".
3. In the text we added an explanation why the periodicities in pressure (Fig. 10) are suggesting a geophysical feature.
4. In the text (and Figures) we clarified the reference to the term "gradients".
5. In the text we added explanation and a reference to the term "solar periodicities".

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6. We improved the color scheme in Fig 3. for radon and air pressure.
7. In Fig 14 we clarified the meaning of the individual curves and added a yearly scale.
8. In Fig 15 we marked the hour of the curves (HID) on the plot.

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Interactive comment on Solid Earth Discuss., 4, 1511, 2012.