

## Specific Comments

In the section Geographic and geological setting the description of the investigation sites and the figure 1 are not well clear

<<Initial monitoring of radon in the Southern Avana indicate temporal variation....>> in which site exactly? Is it in A in picture?

The site of Gavnunim is not cited in this section.

Here you write that Roded is located between ELTGR and Amram while in the discussion you say that Roded is located between ELTGR and Gavnunim. Not clear

Figure 2 is not useful

## In the section results

The distribution of peak time of SDR signals (fig 8): this result is quite obvious soil radon usually trend in this way owing to atmospheric stability and barometric pressure variation.

According to the asymmetric sub-diurnal radon signals (Fig10) you haven't considered the detector limitations. The instrumentations you used for your investigations both operate in diffusion mode, and it isn't at direct contact with the rock but it is inside a chamber, so it means that when an increasing of radon happens in the surrounding area it takes time to diffuse inside the detector chamber, the radon mobility is not so high, and at the same time the decreasing is recorded with a delay owing to the time necessary to replace the measured gas in the chamber

## Technical comments

Fig 1 missing D in picture.

Page 6 line 16 add Dead Sea Transform before DST because is the first time you use it.

Steinitz and Piatibratova, 2009 not listed in references

Garfunkel et al., 2000 not cited in the text.