

Interactive comment on “Stochastic heterogeneity mapping around a Mediterranean salt lens” by G. G. Buffett et al.

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Review of “Stochastic heterogeneity mapping around a Mediterranean salt lens”, by Buffett et al.

General Comments: This paper presents some interesting and very unique results that should be of interest to the readership of Ocean Science. I have reviewed this paper in prior incarnations, and at this stage it is a well-polished manuscript that requires only very minor modification before publication. The only critical issue raised in my comments below is the unreadability, due to small size, of the annotation in figures 2 and 3.

Specific Comments: (1) The abstract should probably mention something about the

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results for scale lengths

- (2) Page 3, line22: suggest a comma after “but”
- (3) Equation 4: Need to define the gamma function
- (4) Page 5, line 13: suggest a comma after “because”
- (5) Page 5, line 14: suggest a comma after “fields”
- (6) Page 5, lines 13-14: Could also note that the decorrelation length is the dominant visual scale of the morphology, which helps justify use of the term “scale length”.
- (7) Page 5, line 20: suggest replacing “which generates” with “from which we derive”
- (8) Page 6, line 8: suggest a comma after “that”
- (9) Page 9, line 6: I think it should read “. . .on the order of 5-75 m (Widesss, 1973)” rather than “. . .on the order of 5-75 m, Widess (1973)”.
- (10) Speaking as a member of the significant portion of the population that is red-green color blind: please change the color of the trajectory arrow, which largely sits on a green background, to something other than red.
- (11) Figure 2: all the scale annotation is too small to read, either on my printed version or the on-line version.
- (12) Figure 2 caption: replace “showing” with “along with”, and delete “plotted as histograms in Fig. 3”. The latter is getting ahead of yourself. Only need to reference figure 2 from figure 3.
- (13) Figure 3: ditto comment #11

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