1) kriging of crustal parameters: did you observe any anisotropy in the variograms estimated along the vertical direction and along the horizontal axis?

2) how did you choose the width of the gaussian filter applied to the Moho interface?

3) It could be interesting to analyze how your model is different from European scale models (e.g. EPCrust).

4) Petrinja earthquake:
   a) which hypocenter did you used? You did not report the reference in the text.
   b) Fig 9 shows that the use of the 3D model removed the dependency of the residuals on the distance and greatly reduced the residual dispersion; on the other side the mean residual (for Pg and also Pn)) is about -0.5s: why did you not re-localize the event with the new velocity model?

- lines 255-266: not clear
- line 330: “we specified a relatively large area between 10° and 20° east longitude” -> from the maps (fig 3, …) it seems that the interpolated area reaches 20.5° E longitude
- lines 798-799: Handy 2010 is in the References but not cited in the text
- lines 813-815: Kennet et al 1995 is in the References but not cited
- lines 816-818: Korbar 2009 is in the References but not cited
- lines 886-888: Tari 1998 is in the References but not cited