

Queries to author

AU1 – Long affiliation is OK except for the postal code. The correct postal code should be 06269-3046

AU1a – OK, remove “seismic instrumentation” as a possible Treatise cross reference

AU2 – Please make upper case “V” to make consistent with previous sentences

AU3 – Change in type setting to “100-300 km on both sides” is OK and is what I intended

AU4 -- The COSY Project web site had to be shut down due to a conflict with COSY name being used by another group. I exchanged e-mails with one of the web organizers, Werner Igel, who says he plans on reinstalling a link. I suggest for now that the link be changed to www.geophysik.uni-meunchen.de (main site active) in the hope that visitors to that site can either be eventually directed to a new link for the COSY Project, which will be set up by Werner Igel.

AU5 – This should be a “k” with a subscript x, i.e. “ k_x ”. Paragraph 0160, line 15 should consequently change the typesetting so that “k” has the subscript “x” rather than the subscript “z”, i.e., “ k_x ”

AU6 – Yes, those are the titled sections that I wish to cross reference here

AU7 – Yes, I supplied via e-mail correspondence I had with the authors of figs 15 (Jeroen Tromp) 19, and 20 (George Choy) to Zoe Kruze. I will include copies of these e-mails again with this return of proofs.

AU8 – Phrase is OK as is and makes sense. No change needed.

AU9 – Phrase OK. No change needed

AU10 – page numbers are 419-518

Corrections to Proofs

COR1 -- p0046, line 3 “curl of the equation of motion [11]..” Change to “curl of the equation of motion [1]..”

COR2 -- The caption to figure 18 needs revision to correspond to the arrangement of images. A revised caption should read:

Figure 18 Top left: a comparison of the PREM model parameterized by continuous polynomials in radius versus the EFA and discrete homogeneous layers and discrete parameterization back-transformed to a spherical model (Müller 1973; Aki and Richards 1980). Top right: a 3-D model of the crust and uppermost mantle beneath Nilore, Pakistan parameterized by Delauney tetrahedra constructed from codes by (Sambridge and Gudmundsson 1998). Bottom: a 3-D model for testing the effects of possible structure near the core-mantle boundary having P velocity perturbations with both isotropic and anisotropic spatial distributions, constructed using the techniques described by Frankel and Clayton (1986).

COR3 – p0595, line 2 Change “..support on problem..” to “... support on problems”