

## **Deep crustal structure of the southern Baltic Sea in the light of seismic and potential field data**

by Ponikowska et al.

### **Response to Reviewers**

We sincerely thank the Guest Editor, **Christopher Juhlin**, and **Reviewer #1** for their careful reading of the manuscript and for comments that helped us resolve the remaining inaccuracies.

### **Guest Editor**

Line 185:

*Comment:* The reference should be changed from “Seidel, 2019” to “Schlüter et al., 1997,” which is the original source of the well data used in the PhD thesis.

*Response:*

We have replaced the citation of Seidel (2019) with **Schlüter et al. (1997)** in line 185. The full bibliographic entry for Schlüter et al. (1997) has been added to the reference list. At the same time, two references—Seidel (2019) and Schlüter et al. (1998)—have been removed. The caption of Figure 2 has also been updated to cite Schlüter et al. (1997).

### **Reviewer #1**

Former comment L371, new L395:

*Comment:* The reviewer noted a possible misunderstanding: although the text stated that the BGR16-257 profile lies entirely east of the Koszalin Fault, it should be south/west of the fault.

*Response:*

We apologize for this oversight. It was a typographical error, which has now been corrected. The BGR16-257 line is indeed located entirely southwest of the Koszalin Fault.

Former comment L616:

*Comment:* Expand the discussion of the TTZ and the EEC margin by incorporating additional studies of lithospheric structure. Suggested references include:

- Janutyte et al. (2015)
- Knapmeyer-Endrun et al. (2017)
- Shomali et al. (2006)  
(Some of these could also be cited in the Introduction, where lithospheric thinning is discussed.)

*Response:*

We have incorporated all three recommended studies. They are now cited in the **Geological Setting** section (lines 113–114). In addition, Shomali et al. (2006), Janutyte et al. (2015), and

Knapmeyer-Endrun et al. (2017) are also referenced in the **Discussion** (lines 678–679), where their insights on deep lithospheric structure enhance the regional interpretation.