

Interactive comment on “Caspian Sea level changes during the last millennium: historical and geological evidences from the south Caspian Sea” by A. Naderi Beni et al.

A. Naderi Beni et al.

amnaderi@inio.ac.ir

Received and published: 6 May 2013

Dear Prof. Eberhard Sauer

Many thanks for reading the article precisely and for your informative and encouraging remarks. Your vast knowledge on the history of the south-east Caspian Sea will help us to improve the manuscript.

Please see below for our responses to your precious comments.

Comment 1: In all citations, page numbers should be added.

Response: This comment will be followed as we have used a historical methodology.

C635

The page numbers were recorded in all of the historical notes by the authors. We will add these to the text during the revision.

Comment 2: “Evidence” is always singular!

Response: We will make this modification.

Comment 3: The Caspian Sea level rise to -19m in the 14th c. (p. 1418) cannot be correct as all observation on the ground, incl. our finding from the kiln in Trench I, only indicate a lesser rise?

Response: As it was mentioned in the manuscript (e.g., 1419/9-20), many researchers prefer to make their interpretations based on uncalibrated ages or on calibrated age data without considering the marine reservoir effect (RE). You followed a similar approach in interpreting chronological data in Rekavandi et al. (2007). Various RE have been reported for the Caspian Sea: from 290 to 400 yr by different researchers. If you apply a RE to the chronological data, then the recorded sea-level rise in Rekavandi et al. (2007) could be linked to younger events such as the 17th century sea-level rise with -22 to -23 m of water level, the same level that has been reported in Rekavandi et al. (2007) and that is supported by the results of this study.

Finally, we hope that these explanations adequately respond to the referee’s concerns.

Interactive comment on Clim. Past Discuss., 9, 1397, 2013.