

Interactive comment on “Heat-flow and subsurface temperature history at the site of Saraya (eastern Senegal)” by F. Lucazeau and F. Rolandone

V. Cermák (Referee)

cermak@ig.cas.cz

Received and published: 12 June 2012

Authors measured and interpreted temperature vs. depth profiles in several boreholes in western Africa. This region is generally very poorly covered by most geophysical data and the papers thus suitable reveals important information for anybody interested in both geothermics as well as borehole climatology. The manuscripts is well written, briefly summarizes measured field temperature data completed with laboratory determined thermal conductivity data and clearly interpret them. The authors address two topics (a) terrestrial heat flow and its interpretation in terms of crustal structure and (b) inversion of the temperature-depth profiles in terms of recent climate change. Both sets of data in principle well confirm older findings and further complement them. The structure of the manuscripts is reasonably balanced and have all necessary proprieties,

C226

such as list of references, tables and figures. I am happy to recommend the manuscript for publication "accepted as is".

Interactive comment on Solid Earth Discuss., 4, 599, 2012.