**Solid Earth
Discussions**

Interactive comment on "Open Plot Project: an open-source toolkit for 3-D structural data analysis" by S. Tavani et al.

S. Tavani et al.

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General Comments: The aim of the paper and software development is interesting and I can easily see applications when upscaling data from a structural map to a 3D model. This could also be very useful when analysing the degradation of a 3D model depending on data density etc. . . . again a sampling/upscaling issue that is of interest at the moment. So, the software has definitely potential to be useful in the wider structural geology community and I can only commend the authors for their OpenSource approach.

A few comments about the paper: The abstract does not specify what the software does in term of structural analysis and how it could be used as part of the workflow in 3D modelling. This is only apparent in the main body of the paper.

Response: We agree with this criticism and the abstract will be more explicit about these points.

A figure illustrating some of the case studies would also be greatly appreciated to get an idea of the software capabilities without having to use it at first hand.

Response: A new figure will be added to illustrate the software capabilities.

In the introduction although I agree with the main limitations and use of structural data as per the authors opinion, the recently developed Geomodeler package should be mentioned and cited (Calcagno, P., Chilès, J.P., Courrioux, G., and Guillen, A., 2008, Geological modelling from field data and geological knowledge: Part I. Modelling method coupling 3D potential-field interpolation and geological rules, Physics of the Earth and Planetary Interiors, 171, 147-157). I understand however that the aim here is not to build models but analysed structural data both statistically through cross-plots and stereograms but also spatially with the 3D visualisation tool, so there is no need to expand too much on that topic.

Response: As pointed out by the reviewer the software is mostly oriented toward the analysis of structural data. However, recently developed software and methodologies for 3D reconstruction will be mentioned.