# *Interactive comment on* "Design and Applications of Drilling Trajectory Measurement Instrumentation in Ultra-deep Borehole Based on Fiber Optic Gyro" *by* Yimin Liu et al.

**Yimin Liu et al.**

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Dear reviewer 1#ïïjŽ

We are very grateful to this referee comments, and we have carefully read and considered the referee's comments, and these comments are important for improving the quality of this manuscript. Based on these comments, we have made carefully modification and proofreading on the original manuscript, the detail modifications are shown in next chapter.

Thank you very much for your suggestion and consideration, and we look forward to

hearing from you.

Best regards,

Yimin Liu and Chenghu Wang.

Detailed revision:

(1) The Figure 1 is not clear. It's better to be replaced by a clearer one.

Modification: In the previous manuscript, Figure 1 is created by Microsoft Visio, so when it is directly converted to PDF, it is not clear. We will convert it into JPG format and it will be much clearer than before.

(2) Page 4, Line 8: "... in figure 2." to "... in Figure 2.", The similar typos should be also corrected.

Modification: We have corrected these similar typos according to review's comment.

(3) The appropriate punctuation is required behind the mathematical formulas. For example, a period is needed behind Equation 1.

Modification: We added a period behind the mathematical formulas in the manuscript.

(4). Below Equation 4, please delete some expressions with Chinese words. The same problems occur below Figure 17 and in Equation 7.

Modification: We have made carefully proofreading to avoid Chinese words in the revised manuscript.

(5). Check the formats of Reference carefully, and unify the formats.

Modification: We checked the formats of Reference according to the requirement of GI.

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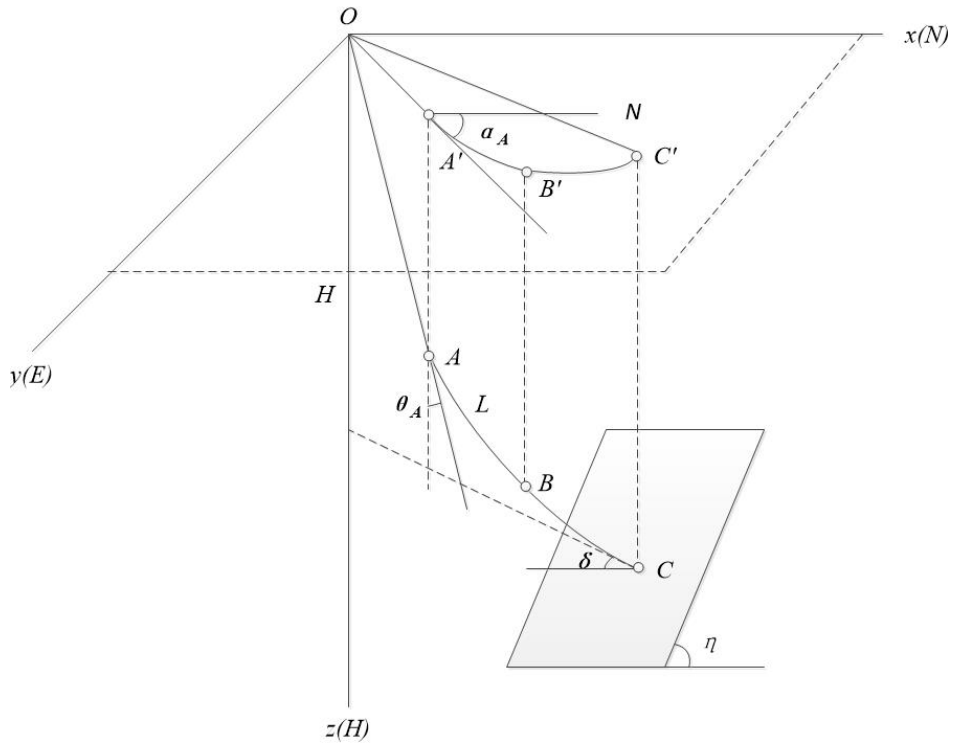
**Fig. 1.** Coordinate system of borehole trajectory