

Interactive comment on “Autonomous underwater vehicle based marine multi-component self-potential method: observation scheme and navigational correction” by Zhongmin Zhu et al.

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The authors establish a novel SP measurement system using AUV that is an interested solution for marine SP explorations. And an experimental verification of navigational information rotation in SP measurement is presented. The manuscript could be published in the journal after minor revision. 1 Line 130, the detail of SP source did not given, such as current magnitude. 2 Section 3.1 said that switching on and off manual power, changing navigation speed and steering will disturb SP measurement, but I can't find the related descriptions in the result analysis about lake test 3 Please demonstrating the accuracy of direction, pitch and roll measurement to the SP when corrected

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using a rotation transform in section 3.2. Minor comments: Line 64 “four electric field receivers” should be revised to “four channel electric field receivers”. Line 67 “human interference” should be revised to “artificial interference”. Line 77 “electric field receivers” should be revised to “electrode” or “electric field sensor”. Line 100 “electrode spacing” should be revised to “Electrode dipole length”. Line 103 “electrode distance.” should be revised to “Electrode dipole length” Finally, my personal recommendation the manuscript should be proofread by native English speaking before resubmission.

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