

## ***Interactive comment on “CranSLIK v2.0: improvements on the stochastic prediction of oil spill transport and fate using approximation methods” by R. Rutherford et al.***

**Anonymous Referee #2**

Received and published: 17 August 2015

This paper describes an improvement to the Cranslik V1.0 model by adding further variables to improve the stochastic model's accuracy, and also adding the ability to break up the slick into minislicks to better capture the slick shape. By providing the software as an open source code, the results can be easily reproduced and validated by other researchers. The new model has been validated both against the older version and also against the MEDSLIK-II oil spill model. The quick performance of such stochastic models vs physics-based models such as MEDSLIK-II allows the prediction of likelihood regions of the oilspill travel for rapid deployment of spill control measures. To this effect, it would be interesting to see the model extended to take into account not only beaching of the oil spill, as described by the authors, but also interactions of the

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oil spill with response equipment like booms and chemical dispersants.

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Interactive comment on Geosci. Model Dev. Discuss., 8, 4949, 2015.

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