

Interactive comment on “MEDSLIK-II, a Lagrangian marine oil spill model for short-term forecasting – Part 1: Theory” by M. De Dominicis et al.

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The Authors thank Referee #2 for the helpful comments that will contribute to place the work in the state-of-the-art context of oil spill model development.

In the following we list our answers:

Specific comments:

- (1) The title has been modified according to the Referee #2 comment into “MEDSLIK-II, a Lagrangian marine surface oil spill model for short-term forecasting.”
- (2) The publication related to MEDSLIK (Lardner et al., 1998, 2006; Zodiatis et al.,

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2008a) were cited at page 1951, now they have been repeated again at page 1952 line 8.

(3) The sentence has been rephrased and the Liu et al. (2011a) publication has been cited: “In the case of an oil spill for which leakage last for several hours or even months (Liu et al. 2011a), . . .”

(4) We totally agree with the Referee and in fact we have acknowledged the fact that: the wind correction may not be needed. The Liu et al. 2011b, 2011c publications will be cited at page 1969.

(5) We agree with the Referee and the Pugliese Carratelli et al. (2011) publication will be cited at page 1969.

Technical errors:

For the technical corrections we have made all the suggested changes.

New references included in the manuscript:

Liu, Y., A. MacFadyen, Z.-G. Ji, and R.H. Weisberg (Editors), 2011a: Monitoring and Modeling the Deepwater Horizon Oil Spill: A Record-Breaking Enterprise, Geophysical Monograph Series, 195, 271 PP., AGU/geopress, Washington D.C., doi:10.1029/GM195.

Liu, Y., R. H. Weisberg, C. Hu, and L. Zheng, 2011b, Tracking the Deepwater Horizon oil spill: A modeling perspective, Eos Trans. AGU, 92(6), 45-46, doi:10.1029/2011EO060001.

Liu, Y., R.H. Weisberg, C. Hu, and L. Zheng, 2011c: Trajectory forecast as a rapid response to the Deepwater Horizon oil spill, in Monitoring and Modeling the Deepwater Horizon Oil Spill: A Record-Breaking Enterprise, Geophys. Monogr. Ser., 195, 153-165, doi:10.1029/2011GM001121.

Pugliese Carratelli, E., F. Dentale, and F. Reale, 2011: On the effects of wave-induced

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drift and dispersion in the Deepwater Horizon oil spill, in *Monitoring and Modeling the Deepwater Horizon Oil Spill: A Record-Breaking Enterprise*, Geophys. Monogr. Ser., 195, 197–204, doi:10.1029/2011GM001109.

Interactive comment on *Geosci. Model Dev. Discuss.*, 6, 1949, 2013.