

**Figure S1: Particle distribution after 4 (a, b), 8 (c, d) and 12 (e, f) years simulation for runs 6 (left) and 1 (right). Eastern (ER) and western release (WR) points are marked in red.**

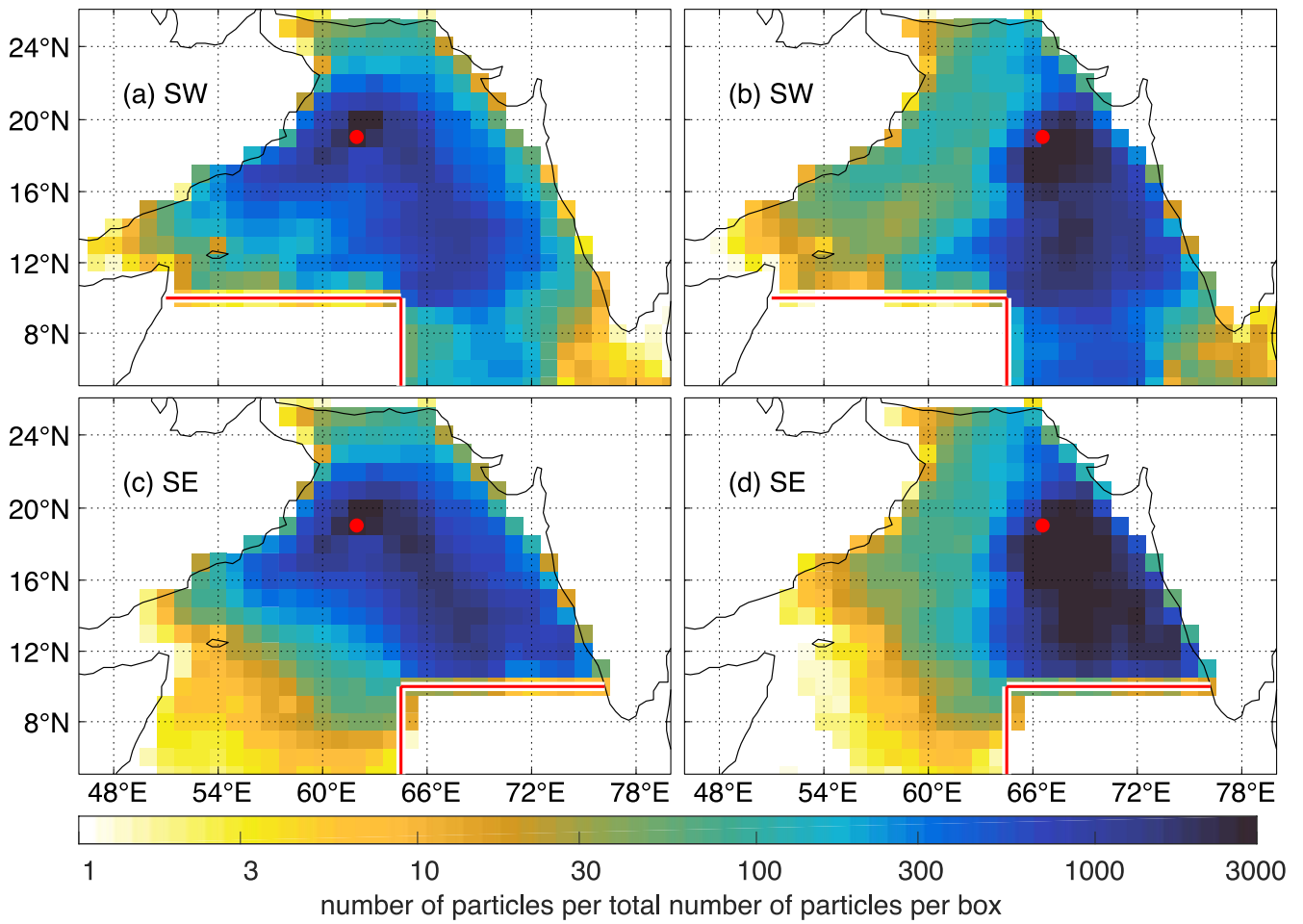


Figure S2: Particle position maps showing the most pronounced pathways of fluid particles for the backward trajectory analysis, entering the Arabian Sea from the south west (a, b) and the south east (c, d) streaming into the eastern (right, run 1) and western (left, run 6) basin. Eastern (ER) and western release (WR) points in the OMZ are marked in red, as well as the sections to define the source regions.

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