

# Baltic Sea oil spill case test (Update after 48 hours)

Submitted 11:00CET 12 May 2016

The 48h simulation by using HIRLAM forcing gave the history and status of the oil drift in the past 48h. The results (animation) by SMHI can be found at <https://stw.smhi.se/oil/player/?id=960a41cc-615a-46fb-ba93-cefc12213a23>. Since the wind had been stronger during the 11<sup>th</sup> until 12<sup>th</sup> 08:15, compared to earlier 24 hours, the oil spill is now expected to move WSW-ward (Fig. 1). However, it is still not expected to reach any sensitive areas.

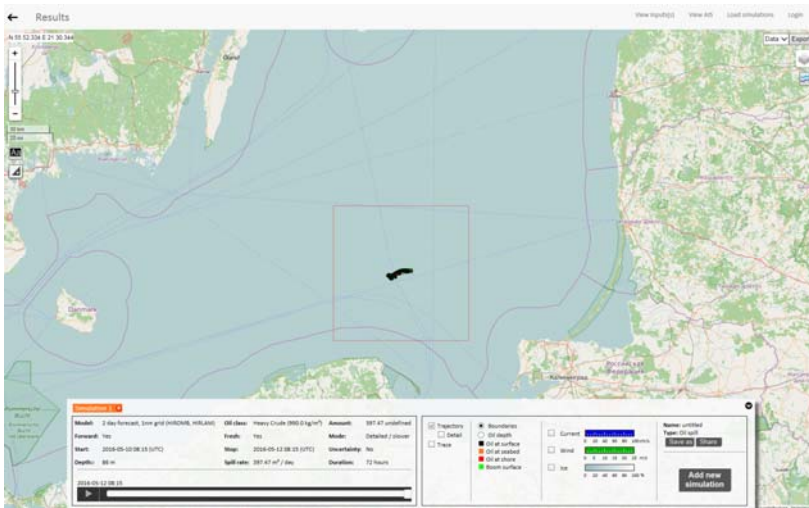


Figure 1 Simulated oil trajectories during the first 48hours of the oil spill (SMHI)

According to DMI simulation, at 8:15CET 12<sup>th</sup>, the oil has been drifted WSW-ward to about 30km away from the spill site. About 60% of the leaked oil is at the surface and 2.4% remain in the bottom. The oil film is spread to 1.2km in radius and covering an area of 5km<sup>2</sup>. The oil thickness has been decreased sharply in the first few hours of the spill.

A new simulation was made at 6:00UTC 12/05/2016. The results show that, for the next 24hours, the oil will drift SW-ward. At 8:00CET 13/05/2016, the oil is expected to reach (55.2N, 18.1E) (Fig. 2). The percentage of the oil at bottom is supposed to increase. The oil will not affect any sensitive areas in Natura2000.

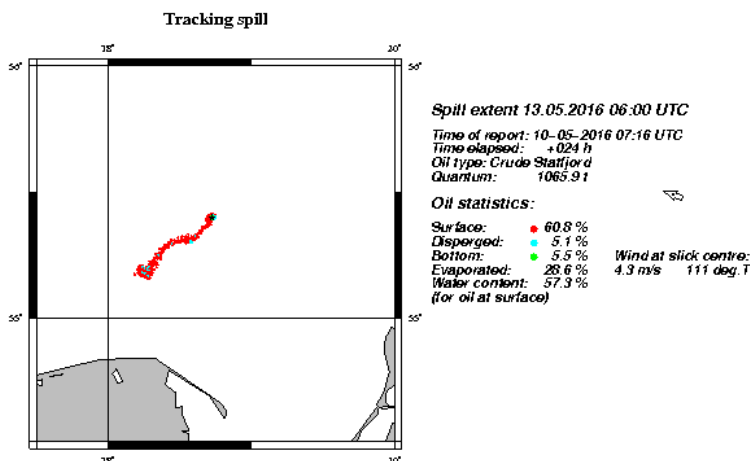


Figure 2 Simulated oil trajectories during the first 72hours of the oil spill (DMI)