

Oil in the Ocean: M/V *Hebei Spirit*



Location: Yellow Sea off Taean County, South Korea
Date: December 7, 2007

Lat./Long.: 36°53'34.97"N, 126° 3'31.70"E
 Material spilled: Light crude oil
 Amount spilled: est. 12,547 tons
 Spill extent: more than 450 miles of shoreline

On December 7, 2007, a barge carrying a crane hit the oil tanker *Hebei Spirit* off the west coast of South Korea. The crane punctured tanks 1, 3, and 5 on the port side of the tanker causing the spill of an estimated 12,547 tons of three different types of crude oil: United Arab Emirates Upper Zakum, Kuwait Export Crude, and Iranian Heavy Crude.

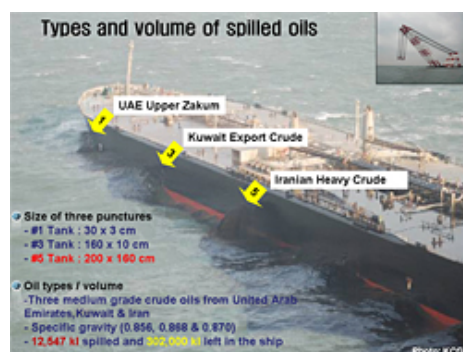
The ship was at anchor in the Yellow Sea approximately six miles off the coast Taean County in the province of Chungnam, which contain popular tourist destinations, important aquaculture operations and migratory bird habitats. Weather conditions immediately after the collision were poor, with gale-force winds from the northwest and 13 foot (4 meter) waves pushing the oil to the south.

Eventually, more than 90 miles of coastline were identified as having been impacted ten days later. Two-dimensional gas chromatography (GCxGC) helped identify and distinguish oil from the three different tanks that leaked oil into the water.

Last updated: July 28, 2014

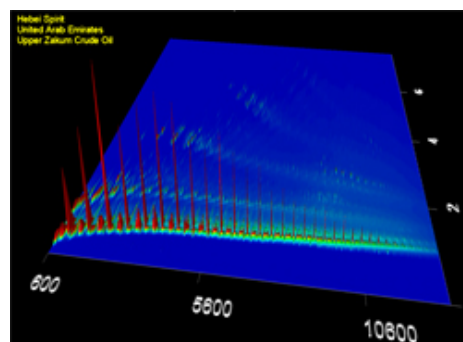


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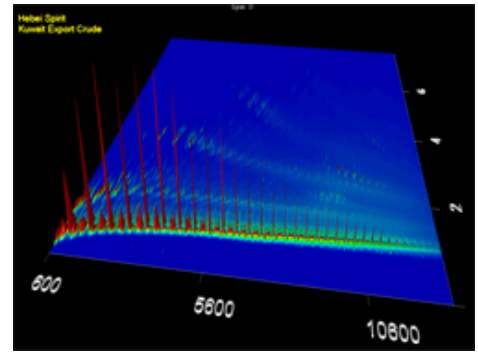
On December 7, 2007 the Super Tanker M/V *Hebei Spirit* collided with a crane-carrying barge approximately 10 kilometers off of Taean, South Korea. The *Hebei Spirit* spilled three medium grade crudes originating from the United Arab Emirates, Kuwait, and Iran. The spill totaled approximately 18,800 metric tons of product (~1/3 the size of the Exxon Valdez Spill).



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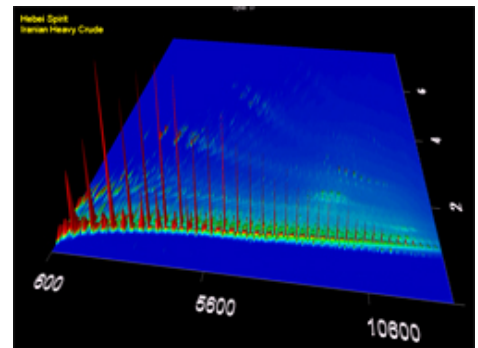
Hebei Spirit Oil Spill
 United Arab Emirates

Upper Zakum Crude Oil (Courtesy Robert Nelson, Woods Hole Oceanographic Institution)



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Hebei Spirit Oil Spill
Kuwait Export Crude
(Courtesy Robert Nelson, Woods Hole Oceanographic Institution)



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Hebei Spirit Oil Spill
Iranian Heavy Crude (Courtesy Robert Nelson,
Woods Hole Oceanographic Institution)

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