

Figure S1. Comparison of images captured on July 14, 2015 between (a) Sentinel-1 SAR, UTC 10:40, slick area 2.8 km², and (b) Landsat-8 OLI, UTC 02:52, slick area 2.9 km². The oil slick extended ~5 km to the northeast during the ~8 h time difference with some subtle changes in shapes. Images pair from (c) Sentinel-1 SAR, May 16, 2018, UTC 10:49, slick area 1.5 km², and (d) Landsat-8 OLI, May 17, 2018, UTC 3:04, slick area 2.1 km². The oil slick moved ~13 km to the southwest during the ~16 h time difference with minor changes in shape.

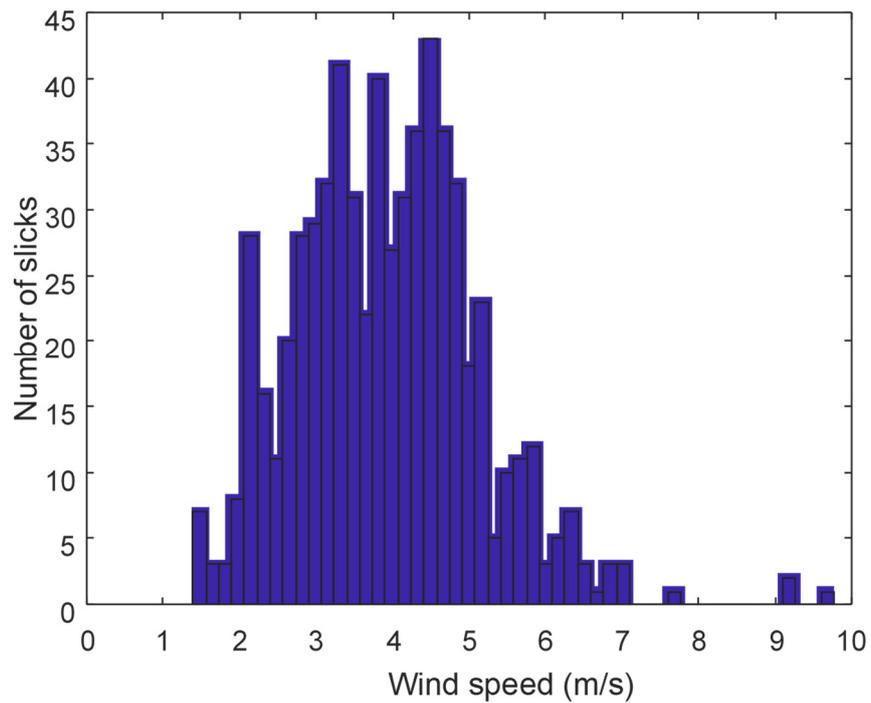


Figure S2. Histogram of wind speed with all the delineated slicks. The wind speed (at 10 m) data are from NOAA Climate Data Record (CDR) Ocean Near Surface Atmospheric Characteristics, Version 2 (<http://doi.org/10.7289/V55T3HH0>), with a time-interval of 3 h and spatial resolution of 0.25 degree. The wind data was interpolated spatially and temporarily on Google Earth Engine (GEE).