

SUPPLEMENTARY TABLE S1. Examples of Effects of Spilled Oil on Marine Organisms

1. Coating of marine mammals and birds
 - Direct toxicity—death by smothering
 - Reduced resistance to other environmental stresses, for example, temperature changes, infectious diseases, and other pollutants

2. Oil ingested or dissolved oil incorporated in the body across membranes (e.g., gill surfaces)
 - Direct lethal toxicity
 - Sublethal effects
 - Reproductive failure
 - Chemical communications (chemotaxis) failure, for example, male lobster cannot find female lobster for mating or predator cannot “smell” prey
 - Physiological stress—placing species at disadvantage to other species
 - Disruption of migration

3. Adverse effects on marketing of commercially valuable species
 - Oil taint in product destined for market
 - Elevated concentrations of oil chemicals in product destined for market trigger human health concerns
