

HFO Project Phase III(a) Heavy Fuel Oil & Other Fuel Releases from Shipping in the Arctic and Near-Arctic.



Final HFO III(a) Report prepared by USA, Finland, Russian Federation, Kingdom of Denmark, Norway, Iceland and submitted to the PAME II-2016 meeting (Sep 2016).

Appendix A: Shipping Incidents and Sources

Table A.1 – Shipping Incidents Involving Oil Releases and Liability from Such Releases

Vessel Flag Spill Date	• Spill Amount & Type • Spill Location	• Liability, If Any
Golden Trader ¹ 9/10/2011	<ul style="list-style-type: none"> • 205 tonnes of IFO spilled after bulk carrier Golden Trader collided with the fishing vessel Vidar. • 60 m³ recovered by Danish vessels. Larger amount of oil later went ashore on Swedish west coast and recovered by Swedish authorities. • Skagerak (Denmark and Sweden) 	<ul style="list-style-type: none"> • No liability allocation or enforcement found.
Godafoss ² Malaysia 2/17/2011	<ul style="list-style-type: none"> • Up to 200,000 gallons of HFO • Hvaler Islands off SE coast of Norway 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
Full City ³ Panama 7/31/2009	<ul style="list-style-type: none"> • 6,300-9,500 gallons (200-300 tons) of HFO and diesel fuel • Langesund, southern Norway 	<ul style="list-style-type: none"> • Norwegian authorities imposed a US \$39 million fine on the ship's owners.⁴ Unknown if fine paid yet. • On May 3, 2010 the Nedre Telemark District Court sentenced the master and third officer of the vessel to six months' and 60 days' imprisonment, respectively.⁵ Both were guilty of violating the Pollution Act due to their failure to take adequate measures to prevent pollution; the master was additionally guilty of violating the Ship Safety Act.⁶
Propontis Greece 02/2007	<ul style="list-style-type: none"> • No oil spilled (used to show how an ecological disaster was avoided) • West of Suursaari, Russia 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.

¹ ITOPF, In Action, GOLDEN TRADER, Denmark, 2011 available at <http://www.itopf.com/in-action/case-studies/case-study/golden-trader-denmark-2011/>.

² Norway Oil Spill Clean-up Products, ALASKA WILDERNESS LEAGUE (Feb. 17, 2011) available at http://www.alaskawild.org/wp-content/uploads/2014/10/Norway_Spill_Factsheet_070511.pdf.

³ Grounded ship's oil spill called the 'worst ever' in Norway, NEWSINENGLISH.NO (July 31, 2009) available at <http://www.newsinenglish.no/2009/07/31/grounded-ships-oil-spill-calledthe-worst-ever-in-norway/>

⁴ Robert A. Clark, IN HINDSIGHT: A COMPENDIUM OF BUSINESS CONTINUITY CASE STUDIES 44 (2014).

⁵ Morten Lund Mathisen et al., Court sentences crew in the aftermath of the Full City oil spill, INTERNATIONAL LAW OFFICE (2010) available at <http://www.internationallawoffice.com/newsletters/detail.aspx?g=7ec1888a-017b-4d36-9a74-cc7780c4d9ce#case>.

⁶ *Id.*

Selendang Ayu ⁷ Malaysia 12/8/2004	<ul style="list-style-type: none"> • About 336,000 gallons: 321,052 of IFO & 14,680 of marine diesel/other oils⁸ • Bering Sea (near Unalaska Island, Alaska; just outside near-Arctic at 53° N)⁹ 	<ul style="list-style-type: none"> • In August 2007, the Selendang Ayu's Singaporean operator, IMC Shipping Co. Pte. Ltd. (IMC), pleaded guilty to two counts of violating the Refuse Act and one count of violating the Migratory Bird Treaty Act. IMC was fined \$10 million in U.S. District Court.¹⁰ • In April 2009, the state of Alaska settled with IMC and another party, Ayu Navigation. Both will pay the state almost \$845,000 to settle oil spill, wreck removal and lost fish tax claims.¹¹ • The vessel owners have paid at least \$9 million as of 2015.¹²
Fu Shan Hai ¹³ China 5/31/2003	<ul style="list-style-type: none"> • 1680 tons of HFO, 110 tons of diesel oil, 35 tons of lubricating oil¹⁴ • Remaining oil was recovered by the wreck in 2013. • Bulk carrier sank after colliding with Polish container ship Gdynia northwest of the Danish Island of Bornholm in the Baltic Sea.¹⁵ 	<ul style="list-style-type: none"> • Claims for pollution damage have been settled, including Swedish and Danish claims.
Baltic Carrier ¹⁶ Marshall Islands 3/29/2001	<ul style="list-style-type: none"> • 74,600 gallons (2350 tons) of HFO • Baltic Sea (East of Falster Island, Denmark) 	<ul style="list-style-type: none"> • As of 9/27/2002, claims for pollution damage have been settled for DKr 55 million (about \$7.9 million USD).¹⁷ Further claims totaling DKr 43 million (about \$6.2 million USD) are being assessed.¹⁸
Janra Germany	<ul style="list-style-type: none"> • 40 tons of heavy fuel oil • Sea of Aland, Finland 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.

⁷ Parker Associates Inc., *Report on the Selendang Ayu Incident* (2005) available at <http://www.alutiansriskassessment.com/documents/SelendangAyu.pdf>; see also [AMSA Report](#) at pp. 88-89.

⁸ National Transportation Safety Board, *Marine Accident Brief [for the Selendang Ayu]*, 1 (2009) available at <https://app.nts.gov/doclib/reports/2006/MAB0601.pdf>.

⁹ *Id.*

¹⁰ NOAA Incident News: <http://incidentnews.noaa.gov/incident/1242/518435> (“The penalty includes \$4 million in community service, including \$3 million to assess risks for shipping hazards where the Selendang Ayu went aground along the Great Circle Route and \$1 million for the Alaska Maritime National Wildlife Refuge”).

¹¹ *Selendang Ayu settlement reached*, KUCB (April 28, 2009) available at <http://kucb.org/news/article/selendang-ayu-settlement-reached/> (“The \$845,000 penalty is in addition to the \$100 million spent by the companies for the cleanup, a \$9 million federal criminal penalty and \$2.5 million reimbursed to the state for its cleanup costs.”).

¹² DJ Summers, *IMO lists Aleutian buffer zones; IUU task force releases plan*, ALASKA JOURNAL OF COMMERCE (Mar. 19, 2015) available at <http://www.alaskajournal.com/Alaska-Journal-of-Commerce/March-Issue-4-2015/IMO-lists-Aleutian-buffer-zones-IUU-task-force-releases-plan/>.

¹³ International Maritime Organization, *Are HNS Spills More Dangerous than Oil Spills?*, 56 (2009) available at

<http://www.imo.org/OurWork/Environment/PollutionResponse/Documents/White%20paper%20Interpill%202006%20R%20and%20D%20Forum.pdf>.

¹⁴ *Volume I. Improvement of the Emergency Oil Spill Response System under the Arctic Conditions for Protection of Sensitive Coastal Areas (Case Study: the Barents and the White Seas)*, UNEP/GEF Project Russian Federation – Support to the National Programme of Action for the Protection of the Arctic Marine Environment, 17 (2010) [hereinafter *Volume I*] available at http://www.nefco.org/sites/nefco.viestinta.org/files/Oil%20Spills%20Final%20Report_eng.pdf.

¹⁵ *Id.*

¹⁶ Gilles Vinent et al., *Accident of the Oil Tanker “Baltic Carrier” Off the Danish Coastline Final Report*, 2 (2001) available at http://csd.bg/fileadmin/user_upload/AnnexesCD/Annex%2078.pdf.

¹⁷ Note by the Director, *Incidents Involving the 1992 Fund Baltic Carrier*, International Oil Pollution Compensation Fund 1992, Executive Committee 18th session (FUND/EXC.18/10), 1 (2002).

¹⁸ *Id.*

12/23/2000		
Nefterudovoz-7 Russia 10/09/1999	<ul style="list-style-type: none"> ● 75 tons of fuel oil ● St. Petersburg, Russia 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Volgo-Don 5088 Russia 06/1999	<ul style="list-style-type: none"> ● 12 tons of chemicals ● St. Petersburg, Russia 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Omsky Russia 05/1999	<ul style="list-style-type: none"> ● 10 tons of oil ● St. Petersburg, Russia 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Nunki Malta 1998	<ul style="list-style-type: none"> ● 100 tons of oil ● Kalundborg Fjord, Denmark 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Kotlin 1998	<ul style="list-style-type: none"> ● 37,5 tons of oil ● Kronshtadt, Russia 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Tosna 1998	<ul style="list-style-type: none"> ● 25 tons of oil ● St. Petersburg, Russia 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Dar-20 1998	<ul style="list-style-type: none"> ● 17 tons of oil ● Jaroslawiec, Poland 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Halsingland 1997	<ul style="list-style-type: none"> ● 70 tons of oil ● Kalajoki, Finland 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
M/V Kuroshima ¹⁹ Panama 11/26/1997	<ul style="list-style-type: none"> ● 38,976 gallons of Bunker ● Summer Bay near Unalaska Island, Alaska (just outside near-Arctic at 54°N)²⁰ 	<ul style="list-style-type: none"> ● The “Kuroshima Restoration Plan” was developed by federal and state natural resource trustees in consultation with the Qawalangin Tribe of Unalaska to restore native seabird populations impacted by the spill.²¹ Kuroshima Shipping, the vessel owner, agreed to stipulations with government authorities about its participation in the restoration.²²
Hual Trooper Germany 1995	<ul style="list-style-type: none"> ● 180 tons of heavy fuel oil ● The Sound, Sweden 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Oden Sweden 1995	<ul style="list-style-type: none"> ● 12,5 tons of oil ● Stockholm, Sweden 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Oihonna Finland 1995	<ul style="list-style-type: none"> ● 81,25 tons of heavy fuel oil ● Kotka, Finland 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Kreva 3/19/1995	<ul style="list-style-type: none"> ● 27,5 tons of diesel fuel and heavy fuel oil ● Husum, Sweden 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Kihnu Estonia 1/16/1993	<ul style="list-style-type: none"> ● 1000 tons heavy fuel oil and 460 tons diesel fuel ● Tallinn, Estonia 	<ul style="list-style-type: none"> ● Finnish government submitted a claim for 90,000 euros relating to clean-up operations carried out in Estonian waters ● Claim was reduced to 69,000, provided an out of court settlement would be reached.
Frank Michael	<ul style="list-style-type: none"> ● 1703 tons of chemical fertilizer 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action

¹⁹ Alaska Department of Environmental Conservation Division of Spill Prevention and response, *Summary of Oil and Hazardous Substance Spills by Subarea (July 1, 1995 – June 30, 2005)*, 6 (2007) [hereinafter ADEC Summary] available at https://dec.alaska.gov/spar/perp/docs/10year_rpt/10Yr_Subareas_FINAL.pdf.

²⁰ *Summer Bay: United States*, GEOGRAPHICAL NAMES available at http://www.geographic.org/geographic_names/usaname.php?uni=1419304&fid=usageo_1319.

²¹ NOAA et al., *Final Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill Summer Bay, Unalaska, Alaska*, (2002) available at <http://www.darrp.noaa.gov/northwest/kuro/pdf/kurofrp0.pdf>.

²² *Id.*

Germany 10/10/1993	<ul style="list-style-type: none"> ● Faro, Sweden 	found.
Konstantin T. Greece 1992	<ul style="list-style-type: none"> ● 12,5 tons of oil ● Husum, Sweden 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Valyr 1992	<ul style="list-style-type: none"> ● 15 tons of oil ● Vysotsk, Russia 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Pamisos Greece 1992	<ul style="list-style-type: none"> ● 12,5 tons of heavy fuel oil ● Aland, Finland 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Antares 1991	<ul style="list-style-type: none"> ● 15 tons of oil ● Rauma, Finland 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Sterno 1990	<ul style="list-style-type: none"> ● 15 tons of oil ● Glan, Sweden 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Volgoneft 263 ²³ USSR 5/14/1990	<ul style="list-style-type: none"> ● 25, 400 gallons (800 tons) HFO ● Baltic Sea, Sweden 	<ul style="list-style-type: none"> ● As of August 1990, the Swedish Government has taken legal action against the vessel owner in the Court of Kalmar, claiming compensation for oil pollution damage of an undisclosed amount.²⁴ ● The vessel was covered by a State guarantee in accordance with Article VII.12 of the Civil Liability Convention and the limitation amount is estimated at SKr3 million (\$350,000 USD)²⁵
Finn-Baltic 12/27/1990	<ul style="list-style-type: none"> ● 37,5 tons of oil ● Hanko, Finland 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Milos Reefer ²⁶ Greece 11/15/1989	<ul style="list-style-type: none"> ● 237,343 gallons of IFO & diesel fuel ● Bering Sea (near NE corner of St. Matthew Island, Alaska) 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
T/V Oriental Crane ²⁷ Sierra Leone 12/12/1988	<ul style="list-style-type: none"> ● 7,600 gallons of Bunker oil ● Nikiski, Alaska 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Sotka Finland 09/09/1985	<ul style="list-style-type: none"> ● 370 tons of heavy fuel oil ● Market, Finland 	<ul style="list-style-type: none"> ● Claims relating to fishery damage (5Kr300,000) and clean-up costs (FM600 000) totaled £105,000. However, if the oil still in the sea reaches the shore, considerable costs for clean-up operations may arise
Eira Finland 08/31/1984	<ul style="list-style-type: none"> ● 300 tons of heavy fuel oil ● Qvarken, Finland 	<ul style="list-style-type: none"> ● No liability allocation or enforcement action found.
Globe Asimi ²⁸ Gibraltar 11/22/1981	<ul style="list-style-type: none"> ● Several thousand tons of HFO spilled into the Port of Klaipeda, USSR. The HFO later drifted out to sea ● Port of Klaipeda, USSR 	<ul style="list-style-type: none"> ● Pollution damage reported to be approximately £ 800 million but no damage suffered in the territory of any Fund Member State.
Antonio Gramsci ²⁹ USSR	<ul style="list-style-type: none"> ● 600-700 tons of crude oil released after tanker grounded near Borga on 	<ul style="list-style-type: none"> ● USSR claims for environmental damage settled for £426,430.

²³ International Oil Pollution Compensation Funds, *Incidents Involving the IOPC Funds 2012*, 91 (2012) available at http://www.iopecfunds.org/uploads/tx_iopecpublications/incidents2012_e.pdf.

²⁴ Note by the Director, *Information on And Approval of Settlement of Claims*, International Oil Pollution Compensation Fund 1992, Executive Committee 24th session (FUND/EXC.24/4), 18 (1990).

²⁵ *Id.*

²⁶ David H. Dickey, *Notable Oil Spills in U.S. Waters Calendar Years 1989-2011*, Dep't of homeland Security & US Coast Guard (2012).

²⁷ ADEC Summary, *supra* note 79, at 23.

²⁸ International Oil Pollution Compensation Fund, Annual Report 1984, at p. 8, available at http://www.iopecfunds.org/uploads/tx_iopecpublications/1984_ENGLISH_ANNUAL_REPORT.pdf.

²⁹ International Oil Pollution Compensation Fund, *Information on and Approval of Settlement of Claims (Antonio Gramsci Incident)*, FUND/EXC.24/3 (1 August 1990).

2/6/1987	<ul style="list-style-type: none"> • south coast of Finland • Borga, Finland 	
M/V Kurdistan ³⁰ Britain 3/15/1979	<ul style="list-style-type: none"> • 6,000 tons (43,900 barrels) of Bunker C • Cabot Strait, Newfoundland, Canada 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
Antonio Gramsci ³¹ USSR 2/27/1979	<ul style="list-style-type: none"> • 5,500 tons of crude oil spilled after tanker grounded. • Ventspils, USSR in the Baltic Sea 	<ul style="list-style-type: none"> • Sweden claimed 112 million Swedish crowns for clean-up operations; IOPC paid 90 million Swedish Crowns, minus the Swedish share in the shipowner's sum (about 4 million Swedish Crowns), plus interest.³² • Environmental impacts were small although a large area was contaminated.³³
T/V Tsesis ³⁴ Russia (Soviet Union) 10/26/1977	<ul style="list-style-type: none"> • 1100 tons of #5 Fuel Oil and Bunker C • Sodertalje, Sweden 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
Arrow ³⁵ Liberia 2/4/1970	<ul style="list-style-type: none"> • 10,000 tons of Bunker C • Chedabucto Bay, Nova Scotia, Canada 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
Esso Nordica 09/25/1970	<ul style="list-style-type: none"> • 600 tons of light fuel oil • Pellinki, Finland 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
Pensa 12/06/1970	<ul style="list-style-type: none"> • 500 tons of light fuel oil • Hailuoto, Finland 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
Palva Russia 05/01/1969	<ul style="list-style-type: none"> • 200 tons of crude oil • Uto, Finland 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
Tug Aries ³⁶ US 6/26/2011	<ul style="list-style-type: none"> • 29,000 gallons of diesel, lube oil, & hydraulic oil • Bering Sea (95 miles east of St. Paul Island, Alaska) 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
Petrozavodsk ³⁷ Russia 5/11/2009	<ul style="list-style-type: none"> • 2400 gallons (75 tons) of fuel (unspecified if HFO) • Barents Sea (Bear Island, Norway) 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
Collision between Tug Pacific Challenger & Barge SCT282 ³⁸	<ul style="list-style-type: none"> • 125 gallons of fuel • Cook Inlet, Nikiski, Alaska 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.

³⁰ *Kurdistan*, CENTER FOR TANKSHIP EXCELLENCE available at http://www.c4tx.org/ctx/job/cdb/precis.php5?key=19790315_001.

³¹ International Oil Pollution Compensation Fund, Report on the Activities of the International Oil Pollution Compensation Fund during 1978 and 1979, at p. 2, available at http://www.iopcfunds.org/uploads/tx_iopcpublishations/1978_1979_ANNUAL_REPORT.pdf.

³² International Oil Pollution Compensation Fund, Report on the Activities of the International Oil Pollution Compensation Fund During 1980, at p. 2, available at http://www.iopcfunds.org/uploads/tx_iopcpublishations/1980_ENGLISH_ANNUAL_REPORT.pdf.

³³ Erik Bonsdorff, *The Antonio Gramsci Oil Spill: Impact on the Littoral and Benthic Ecosystems*, Marine Pollution Bulletin, Vol. 12, No. 9, pp. 301-305 (1981), available at https://www.abo.fi/fakultet/media/16577/bonsdorff1981_marpollutbull12.pdf.

³⁴ James S. Mattson, *Oil Spills*, MATTSONLAW.COM available at http://mattsonlaw.com/environment/oil_spills/oil_spills.htm.

³⁵ Potomac Research, Incorporated, *Arrow Navships 0995-008-1010*, Dep't of the Navy Naval Ship systems Command available at <http://www.supsalv.org/SalvReports/ARROW.pdf>.

³⁶ NOAA Incident News: <http://incidentnews.noaa.gov/incident/8329>.

³⁷ *Volume I supra* note 74, at 18.

³⁸ Naomi Klouda, *Barge spills fuel near Kikiski – Incident demonstrates how even small oil spills are treated*, THE MOUTH OF THE KENAI (June 3, 2009) available at <https://redoubtreporter.wordpress.com/2009/06/03/barge-spills-fuel-near-nikiski—incident-demonstrates-how-even-small-oil-spills-are-treated/>.

Tug & Barge: US 5/27/2009		
F/V Icy Mist ³⁹ US 2/25/2009	<ul style="list-style-type: none"> • 2,850 gallons of diesel fuel & hydraulic oil • North of Akutan Island, Alaska 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
Monarch ⁴⁰ US 2/15/2009	<ul style="list-style-type: none"> • 38,000 gallons of diesel fuel & 2,000 gallons of lubricating oil • Granite Point Platform in Cook Inlet, Alaska 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
F/V American Way ⁴¹ US 1/6/2009	<ul style="list-style-type: none"> • 200-500 gallons of diesel fuel; • Aghiyuk Island, SW of Kodiak Island, Alaska 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
M/V Nunaniq ⁴² US 10/2/2008	<ul style="list-style-type: none"> • 50-300 gallons of diesel #1 fuel (not HFO) • Mekoryuk Bay, Alaska 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
L/C Saltery Provider ⁴³ [Unknown] 8/18/2008	<ul style="list-style-type: none"> • 100 gallons of diesel fuel • West side of Clarence Strait in Saltery Cove, Alaska 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
F/V Nordic Viking ⁴⁴ US 7/22/2007	<ul style="list-style-type: none"> • 3500 gallons diesel fuel • Prince William Sound, Alaska 	<ul style="list-style-type: none"> • In 2008, Nordic Viking, LLC, the vessel owner, reached an agreement with the state of Alaska. It paid a \$17,500 fine to Alaska's oil spill response fund, implemented drug and alcohol testing on other fishing boats operated by its members, and engaged in a supplemental environmental project that contributed \$10,000 to the Gulf of Alaska Keeper's marine debris clean-up program. • In the same year, Captain Dale R. Pruitt pled guilty to criminal charges of (1) operating a boat in a negligent or reckless manner and (2) oil pollution. For the two charges, he was sentenced to a one-year suspended imposition of sentence, had to successfully complete a state-approved alcohol treatment program, in addition to 15 days of jail time (plus 75 days of suspended jail time), 40 hours of community work service and four years of probation (SOA v. Dale R. Pruitt, 3CO-S08-098 CR).⁴⁵
T/V Seabulk Pride ⁴⁶ US 2/2/2006	<ul style="list-style-type: none"> • 84 gallons of gasoline • Cook Inlet, Alaska 	<ul style="list-style-type: none"> • Companies involved, Seabulk Tankers and Tesoro, have signed an agreement with the State of Alaska to address civil oil spill claims and alleged violations of the Cook Inlet winter ice rules. Under the agreement's terms, Seabulk and Tesoro have paid the state

³⁹ NOAA Incident News: <http://incidentnews.noaa.gov/incident/7983>.

⁴⁰ Dickey, *supra* note 86.

⁴¹ NOAA Incident News: <http://incidentnews.noaa.gov/incident/7945>.

⁴² NOAA Incident News: <http://incidentnews.noaa.gov/incident/>.

⁴³ NOAA Incident News: <http://incidentnews.noaa.gov/incident/>.

⁴⁴ State of Alaska Office of Special Prosecutions & Dep't of Environmental Conservation, *Dale R.*

Pruitt Pleads Guilty to Prohibited Operation and Oil Pollution Charges Related to F/V Nordic Viking Grounding (Aug. 8, 2008) available at

<https://dec.alaska.gov/das/ecu/newsItems/Dale%20Pruitt%20press%20release.pdf>.

⁴⁵ *Id.*

⁴⁶ State of Alaska Department of Law, *State Reaches Settlement on Seabulk Pride Spill & Grounding* (July 1, 2010) available at <http://law.alaska.gov/press/releases/2010/070110-SeabulkPride.html>.

		\$429,870 (representing an oil spill civil assessment of \$5,000; civil assessments of \$360,000; and \$64,870 reimbursing the state's response and investigation costs). The companies do not admit to any violations. ⁴⁷
P/V Clipper Odyssey [Unknown] ⁴⁸ 8/1/2004	<ul style="list-style-type: none"> • 3,000-5,000 gallons of diesel fuel • Baby Islands just east of Unalaska Island, Alaska 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
F/V Windy Bay ⁴⁹ US 8/4/2001	<ul style="list-style-type: none"> • 35,000 gallons of diesel fuel • Prince William Sound, Alaska 	<ul style="list-style-type: none"> • Oil Spill Liability Trust Fund (OSLTF) bore entire cost of cleaning up spill: \$3,396,000. No liability mentioned.⁵⁰
Tug Barge Annahootz ⁵¹ US 9/1/1994	<ul style="list-style-type: none"> • 500 gallons of diesel fuel • Cook Inlet, Alaska 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
T/V Eastern Lion ⁵² [Unknown] 5/21/1994	<ul style="list-style-type: none"> • 8,400 gallons of crude oil (unknown if HFO) • Port Valdez, Alaska 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
Braer ⁵³ [Unknown] 1/5/1993	<ul style="list-style-type: none"> • 25,000,000 gallons (85,000 tons) of Norwegian light crude • Shetland Islands, United Kingdom 	<ul style="list-style-type: none"> • Under the UK's Civil Liability Convention, "the liability limit for [Braer] owners could be \$8 million for pollution damage, including cleanup costs. . . . [An] agreement that victims of . . . a spill should be compensated from the International Oil Pollution Compensation Fund [IOPCF] [also exists]."⁵⁴ • By 2005, at least GBP47 million paid by IOPCF; the ship's liability insurer Skuld, had paid GBP 6.2 million (about \$11.22 million USD) to claimants.⁵⁵
Shin Yang Ho ⁵⁶ South Korea 6/27/1990	<ul style="list-style-type: none"> • 60,000 gallons of fuel oil • Bristol Bay, Alaska 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.

⁴⁷ *Id.*

⁴⁸ NOAA Incident News: <http://incidentnews.noaa.gov/incident/1200>.

⁴⁹ Alaska Dep't of Environmental Conservation Division of Spill Prevention and Response, *Major Oil Spills to Coastal Waters* available at <https://dec.alaska.gov/spar/perp/bigspills.htm>.

⁵⁰ U.S. Coast Guard, *Oil Pollution Act Liability Limits in 2013*, Report to Congress, 18 (2013) available at https://www.uscg.mil/npfc/docs/PDFs/Reports/Liability_Limits_Report_2013.pdf.

⁵¹ John Whitney, *Cook Inlet, Alaska Oceanographic and Ice Conditions and NOAA's 18-Year Oil Spill Response History 1984-2001*, HAZMAT Report 2003-01, 92 (2002) available at http://docs.lib.noaa.gov/noaa_documents/NOS/HMRA/HAZMAT_report_2003-01.pdf.

⁵² *Major Oil Spills to Coastal Waters*, *supra* note 115.

⁵³ *Shetland Oil Spill*, TED CASE STUDIES (1997) available at <http://www1.american.edu/ted/SHETLAND.HTM>.

⁵⁴ *Id.* (citing *Braer Crude Oil Tanker Splits as Weather Hinders Containment*, *Oil & Gas Journal*, 27 (1993)).

⁵⁵ *Braer*, TANKERS, BIG OIL AND POLLUTION available at <http://www.oilpollutionliability.com/braer/>.

⁵⁶ Dickey, *supra* note 84.

Exxon Valdez ⁵⁷ US 3/24/1989	<ul style="list-style-type: none"> • 10, 900,000 gallons of Prudhoe Bay Crude (unknown if HFO) • Bligh Reef in Prince William Sound, Alaska 	<ul style="list-style-type: none"> • In 2008 the United States Supreme Court further reduced estimated damages to just over \$500 million. More than \$2 billion has been spent by Exxon on cleanup and recovery. Exxon has paid at least \$1 billion in damages.⁵⁸
Yardarm Knot ⁵⁹ [Unknown] 2/19/1989	<ul style="list-style-type: none"> • 97,000 gallons of diesel fuel • Bering Sea (near St. Paul Island, Alaska) 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
Thompson Pass ⁶⁰ US 1/3/1989	<ul style="list-style-type: none"> • 71,400 gallons of crude oil (unknown if HFO) • Prince William Sound, Alaska 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
T/V Glacier Bay ⁶¹ US 7/2/1987	<ul style="list-style-type: none"> • 207,000 gallons of crude oil (unknown if HFO) • Cook Inlet, Alaska 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.
M/V Vashon ⁶² [Unknown] 6/7/1986	<ul style="list-style-type: none"> • 5,200 gallons of diesel fuel • Johnson Cove, Prince of Wales Island, Alaska 	<ul style="list-style-type: none"> • No liability allocation or enforcement action found.

⁵⁷ NOAA Incident News: <http://incidentnews.noaa.gov/incident/6683>.

⁵⁸ *Exxon Valdez Oil Spill (1989)*, THE NEW YORK TIMES (Aug. 3, 2010) available at http://topics.nytimes.com/top/reference/timestopics/subjects/e/exxon_valdez_oil_spill_1989/index.html

⁵⁹ Dickey, *supra* note 84.

⁶⁰ *Id.*

⁶¹ *Major Oil Spills to Coastal Waters*, *supra* note 115.

⁶² NOAA Incident News: <http://incidentnews.noaa.gov/incident/6365>.

Table A.2 – Main Sources for Table A.1

Sources	
1.	NOAA Incident News: http://incidentnews.noaa.gov/ (last visited April 16, 2015).
2.	David H. Dickey, <i>Notable Oil Spills in U.S. Waters Calendar Years 1989-2011</i> , Dep't of Homeland Security & US Coast Guard (2012).
3.	Alaska Department of Environmental Conservation Division of Spill Prevention and Response, <i>Summary of Oil and Hazardous Substance Spills by Subarea (July 1, 1995 – June 30, 2005)</i> (2007) [hereinafter ADEC Summary] available at https://dec.alaska.gov/spar/perp/docs/10year_rpt/10Yr_Subareas_FINAL.pdf (last visited April 16, 2015).
4.	<i>Volume I. Improvement of the Emergency Oil Spill Response System under the Arctic Conditions for Protection of Sensitive Coastal Areas (Case Study: the Barents and the White Seas)</i> , UNEP/GEF Project Russian Federation – Support to the National Programme of Action for the Protection of the Arctic Marine Environment (2010) [hereinafter <i>Volume I</i>] available at http://www.nefco.org/sites/nefco.viestinta.org/files/Oil%20Spills%20Final%20Report_eng.pdf (last visited April 16, 2015).
5.	<i>Major Oil Spills to Coastal Waters</i> , Dep't of Environmental Conservation Division of Spill Prevention and Response available at https://dec.alaska.gov/spar/perp/bigspills.htm (last visited April 16, 2015).

PAME

Protection of the Arctic Marine Environment

PAME INTERNATIONAL SECRETARIAT
BORGIR
NORDURSLOD
600 AKUREYRI
ICELAND

TEL.: +354 4611355
EMAIL: PAME@PAME.IS
WWW.PAME.IS

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