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CONTROL AND MANAGEMENT OF MARINE ENVIRONMENT



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CHAPTER 1. POLLUTION OF THE MARINE ENVIRONMENT

1.1. Pollution of the marine environment

1.1.1. The concept of marine pollution

- Some definitions of marine pollution
- Sources of marine pollution

1.1.2. Some sources of frequent marine pollution



1.2. Marine pollution due to mineral oil

1.2.1. Large oil spills at sea in the world and Vietnam in recent years

1.2.2. Current status of management and treatment of marine oil pollution in the world and in Vietnam

- Management and treatment of oil pollution at sea in some countries around the world
- Management and treatment of oil spills and oil pollution at sea in Vietnam



CHAPTER 2. LAWS AND POLICIES

ON MARINE ENVIRONMENTAL PROTECTION

2.1. International Convention on the Protection of the Marine Environment

2.1.1. United Nations Convention on the Law of the Sea 1982 (UNCLOS 82)

2.1.2. The International Convention for the Prevention of Pollution from Ships (MARPOL)

2.1.3. London Dumping Convention, 1972 and Protocol 1996

2.1.4. The International Convention for the Safety of Life at Sea 1974 (SOLAS 74)

2.1.5. International Convention on Civil Liability for Oil Pollution Damage (CLC)

2.1.6. Protocol of 1992 to amend the international convention on the establishment of an international fund for compensation for oil pollution damage, 1971 (FUND PROT 1992)

2.1.7. International Convention on Liability and. Compensation for Damage in Connection with the Carriage of Hazardous and. Noxious Substances by Sea, 1996.

2.1.8. Conventions; International Convention on Oil Pollution Preparedness, Response and Co-operation 1990 (OPRC 90)

2.1.9. Basel Convention 1989

2.1.10. Memorandum of Understanding on Port State Control in the Asia-Pacific Region 1993 (TOKYO MOU, 1993)

2.1.11. Other international regulations on marine environmental protection

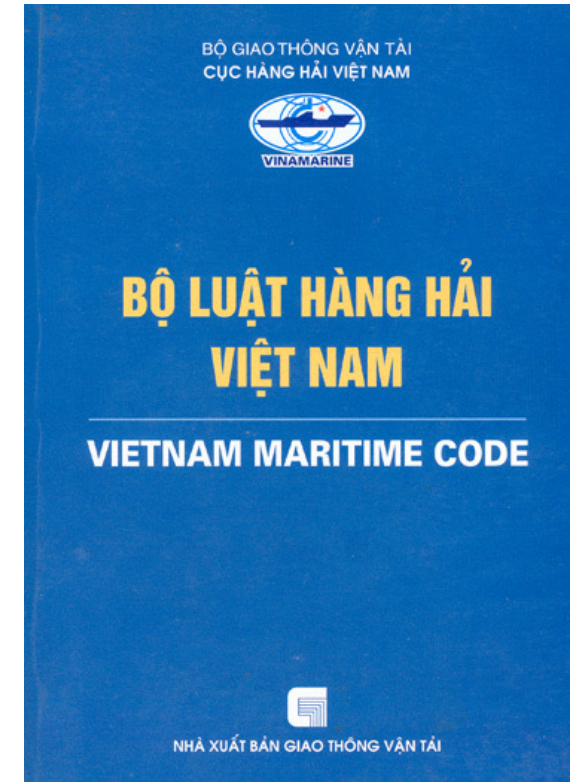
2.2. Vietnamese law on marine environment protection

2.2.1. Law on Environmental Protection

2.2.2. Vietnam Maritime Code

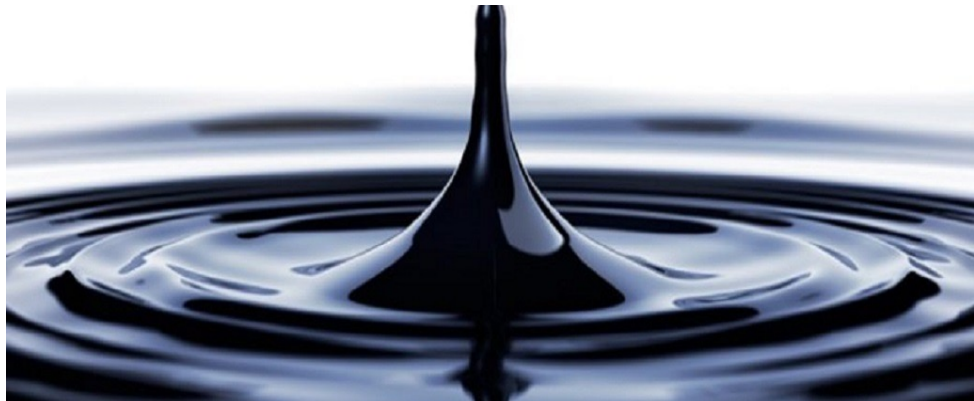
2.2.3. Petroleum Law

2.2.4. Other legal documents



CHAPTER 3. PETROLEUM AND PETROLEUM PRODUCTS

- 3.1. Origin of petroleum and gas
- 3.2. Chemical composition of petroleum
- 3.3. Classification of oil and gas
- 3.4. Petroleum products and applications
- 3.5. Physical characteristics of petroleum fractions

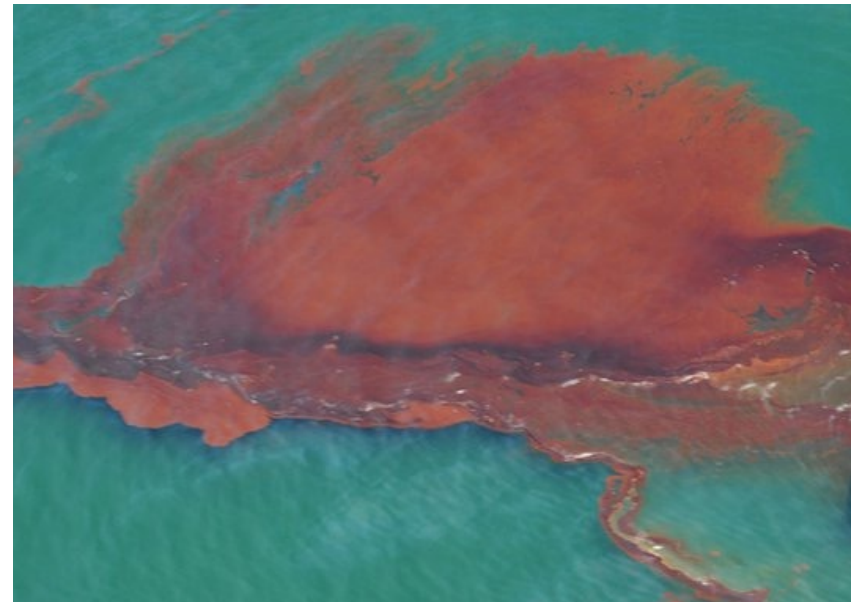
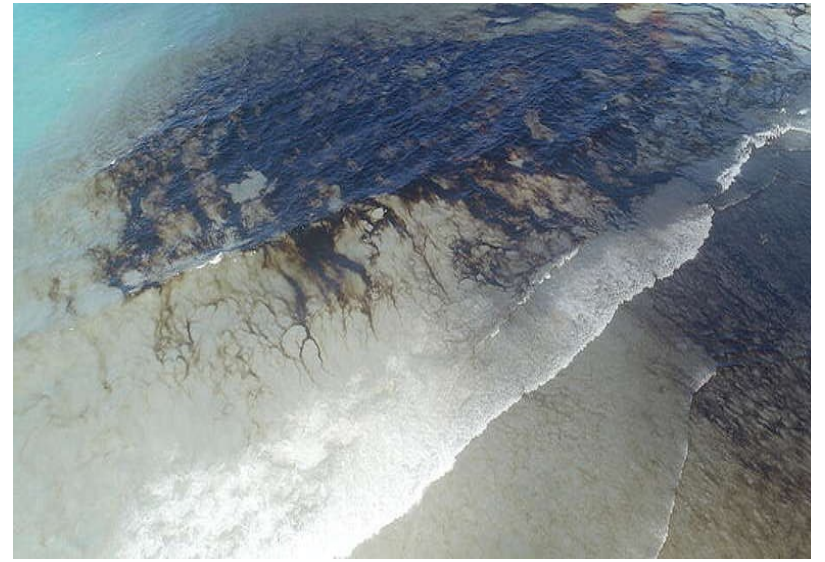


3.6. The change of oil in the sea

3.7. Oil spill damages to seas and oceans

3.8. Consequences of an oil spill at sea

3.9. Some typical oil spills at sea



CHAPTER 4. CONTROL AND HANDLING OF OIL SPILLS AND CHEMICAL SPILLS AT SEA OF VIETNAM

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5.1.1. Float

5.1.2. Oil recovery equipment at sea

5.2. Oil recovery materials

5.2.1. Oil collection tank

5.2.2. Oil spill response canoes



5.3. Chemical dispersion, oil condensate

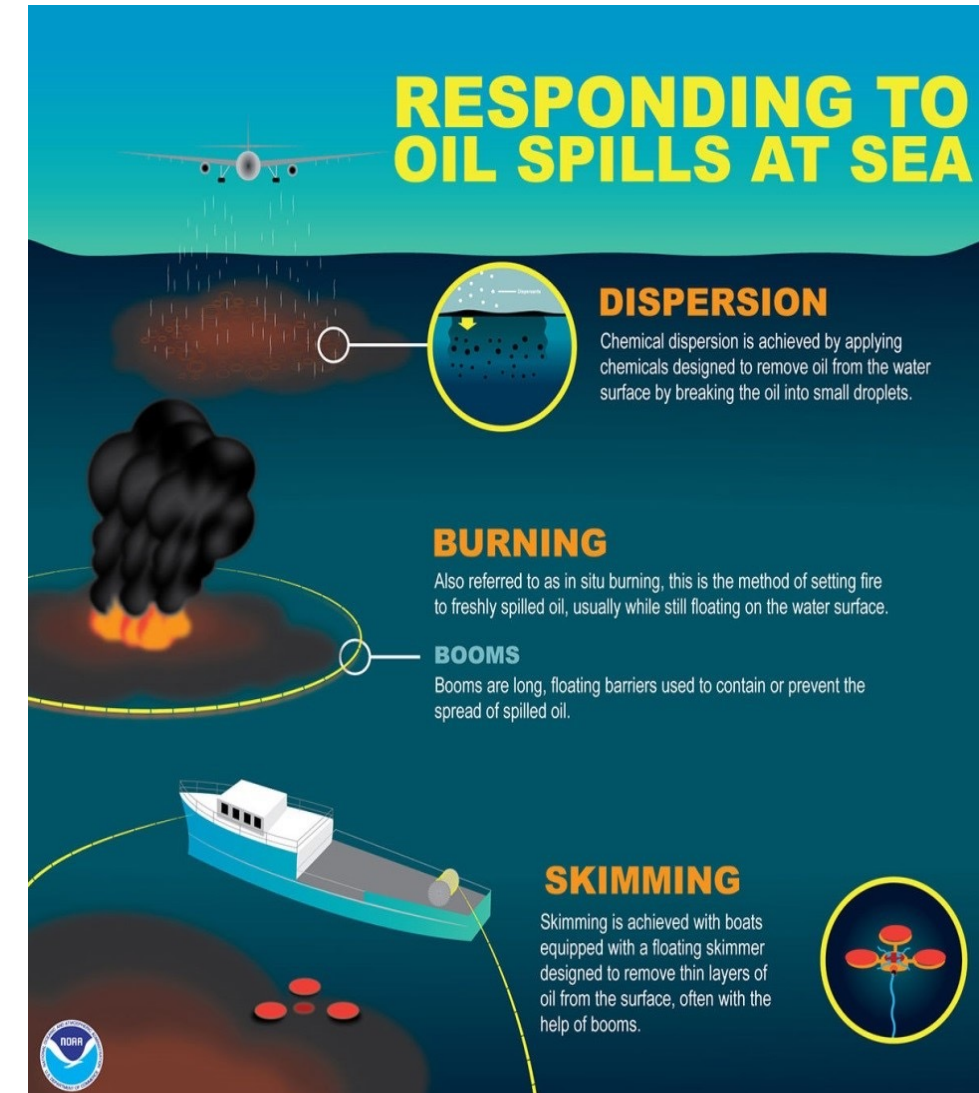
5.3.1. Dispersant

5.3.2. Oil absorbent material

5.4. Activities to respond to oil spills at sea

5.4.1. Organize communication

5.4.2. Stages of implementing an oil spill response plan at sea



CHAPTER 6. COASTAL CLEANING AND ENVIRONMENTAL REHABILITATION, TREATMENT OF RECOVERED OIL AND OILY MATERIALS

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7.1.1. Spectral analysis methods

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7.2. Legal basis of compensation and claim for damages after the oil spill

7.2.1. The provisions of Vietnamese law

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7.3. Compensation for an oil spill

A. Environmental Damage Compensation for an Oil Spill

7.3.1. General provisions on compensation for environmental damage for an oil spill

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7.3.3. Calculation of damage caused by oil spill to the environment

7.3.4. Determining liability for environmental damages for an oil spill

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7.3.5. Cost of investigating and determining the cause of an oil spill at sea

7.3.6. Resolving the consequences of an oil spill

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Thank you



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