Marine Pollution

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Pollution

"The term pollution implies the occurance and inputs of wastes and the impact of these wastes on the environment"



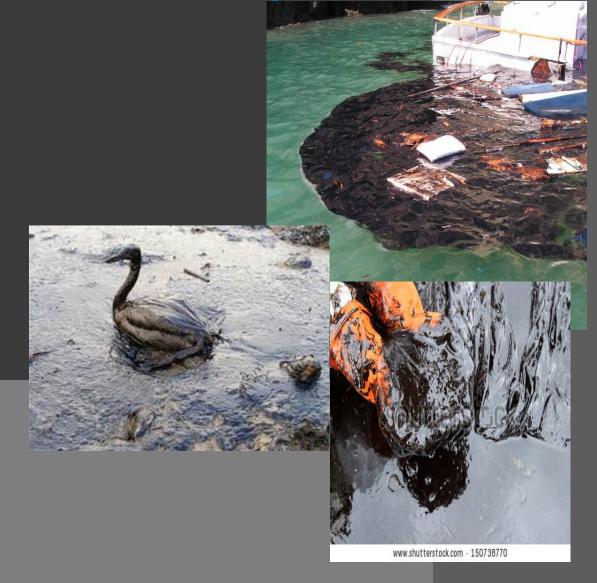
Definition

· "Introduction of substances to the marine environment directly or indirectly by man resulting in adverse effects such as hazardous to human health, obstruction to marine activities and lowering the quality of sea water."



Causes of marine pollution

(a) Large scale oil spills:

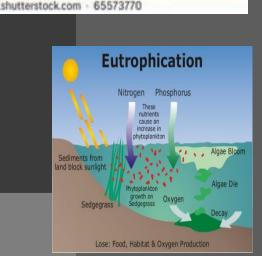


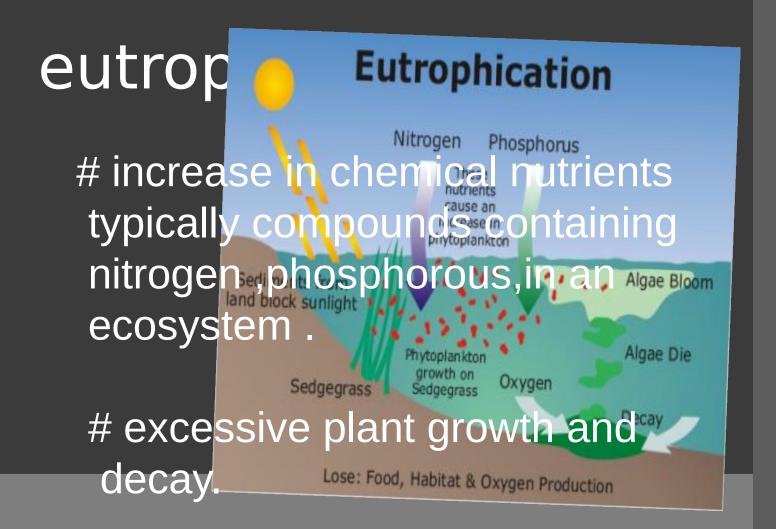
(b) Fertilizers:

runoff from farms

problem in coastal area

leads to eutrophication





deplete dissolved oxygen in water.

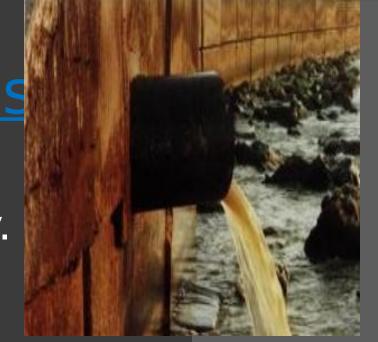
(c) Sewage dispos

deposited on water body.

deteriorate the quality of water.

ecological damage.

leads to eutrophication.





(d) Seas of garba

wastes like plastic bags, ballons,

glass bottles, pacling materials, etc.

can pollute beach and coastal habitats

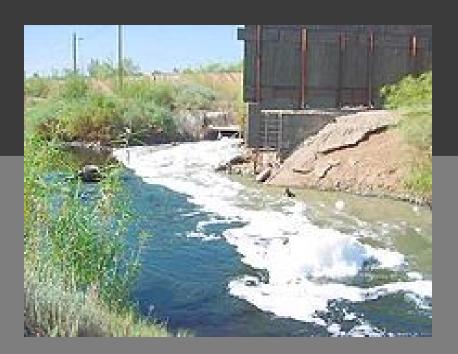






(e) <u>Land runoff:</u>

Occurs when water infiltrates the soil to its maximum and the excess water from rain, flooding or melting of polar ice floes over the land into the water.



(f) Other causes include:

- □ ship as a pollutant
- deep sea mining
- atmospheric pollution
- direct discharge





(d)Toxic chemic

pesticides and chemicals



#deliberate dumping:

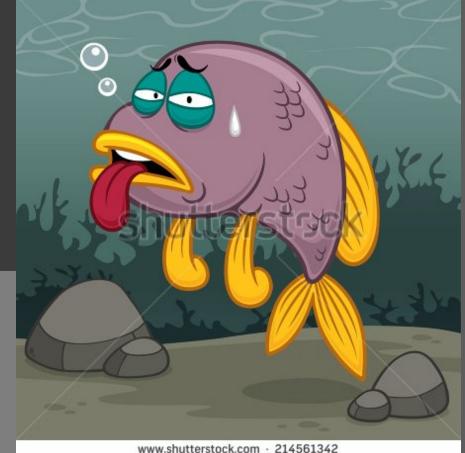
plankton: eaten by small animals:



eaten by larger animals



Effects of marine pollution



(1) Effect of toxic wastes on marine animals.







(2) Disruption to the cycle of coral re



(3) Depletes oxygen content in water____



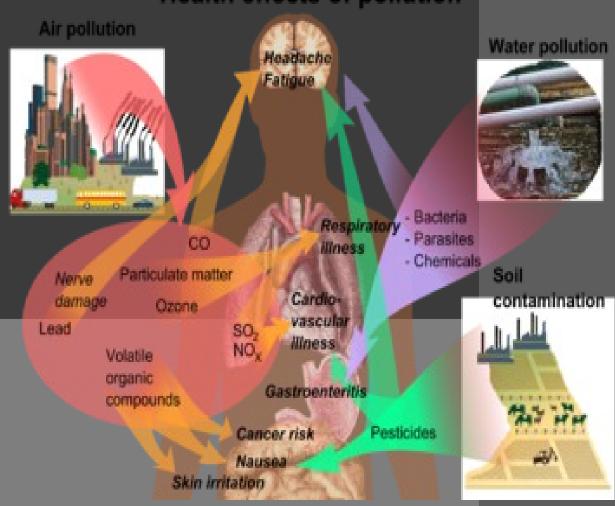
(4) Failure in the reproductive system of sea animals





(5) Affects human health

Health effects of pollution

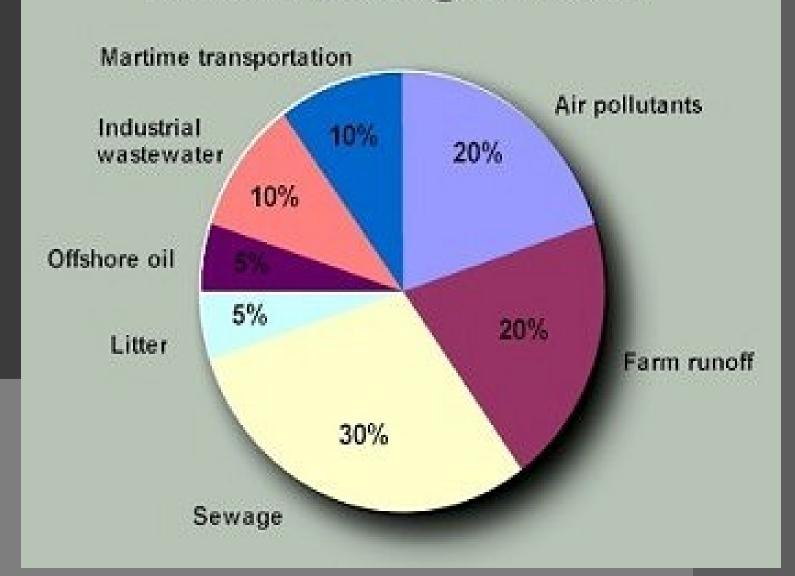


Solutions

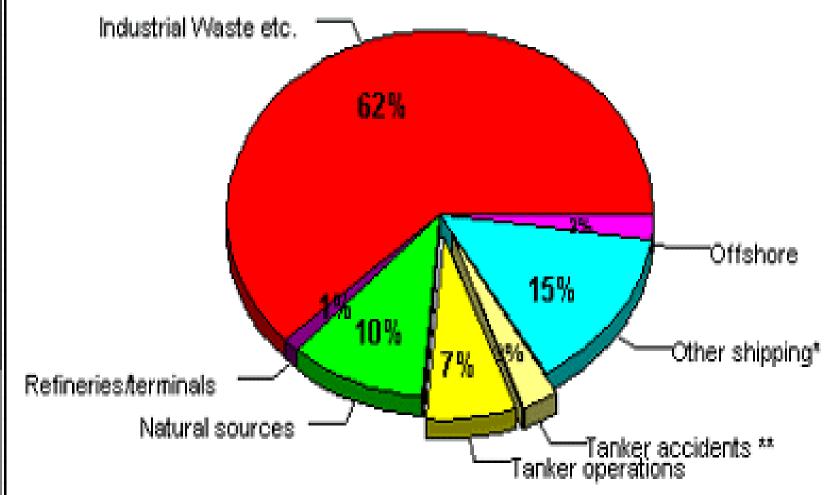
- 1) Use fewer plastic products.
- 2)Help to take care of beach.
- 3) Do not purchase items that exploit marine life.
- 4)Be an ocean friendly pet owner.
- 5)Support organizations working to protect the ocean.
- 6)influence change in your community.

7)Travel the ocean responsibly.
8)educate yourself about oceans and marine life.

Pollutants Entering the Oceans



Source of oil pollution into the sea



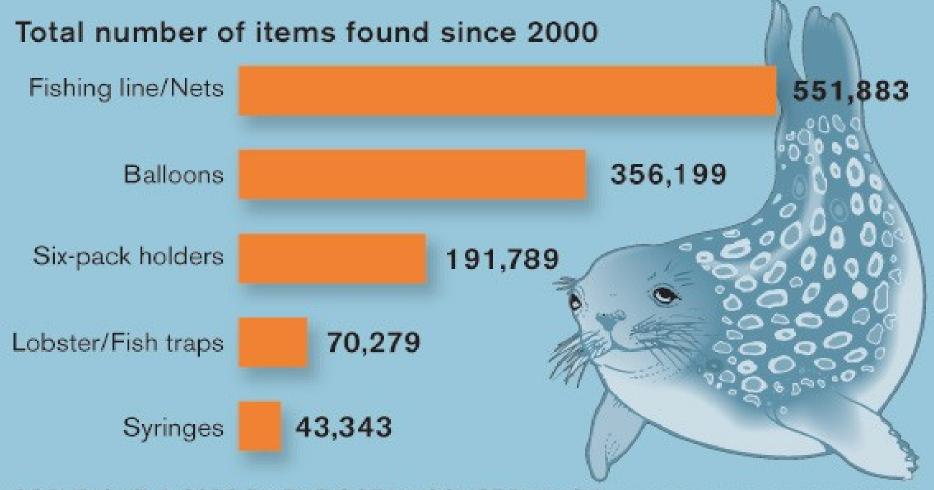
** 1997

Source: UN Environmental Programme (UNEP), 1990.

Non-tanker accidents, Bilge and Fuel oil, Dry-docking

Dangerous Debris

Some types of marine litter can hurt or kill marine wildlife, through entanglement or ingestion. Listed below are some of the harmful items found during The Ocean Conservancy's International Coastal Cleanup.



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Thank you