

Artificial & Natural Ecosystems

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Natural vs. Artificial

- **Natural ecosystem** is a natural unit consisting of all plants, animals and microorganism .
- A place where plants and animals are dependent upon one another.

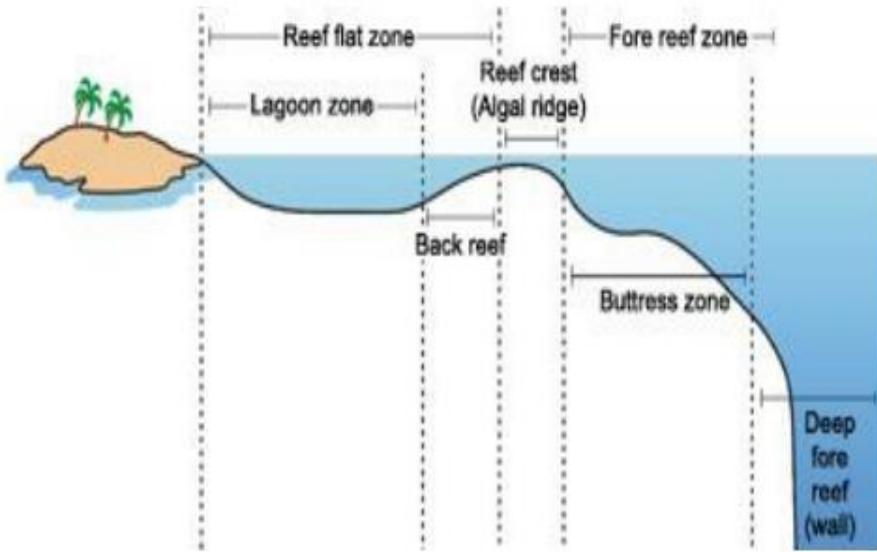


- **Artificial ecosystem** are created by human beings.
- Where management, balance of the nature is disturbed regularly.
- Examples; sugarcane, rice-fields, wheat, gardens, dams, and aquariums.
- The basic biotic and abiotic components are defined by man in artificial ecosystem.



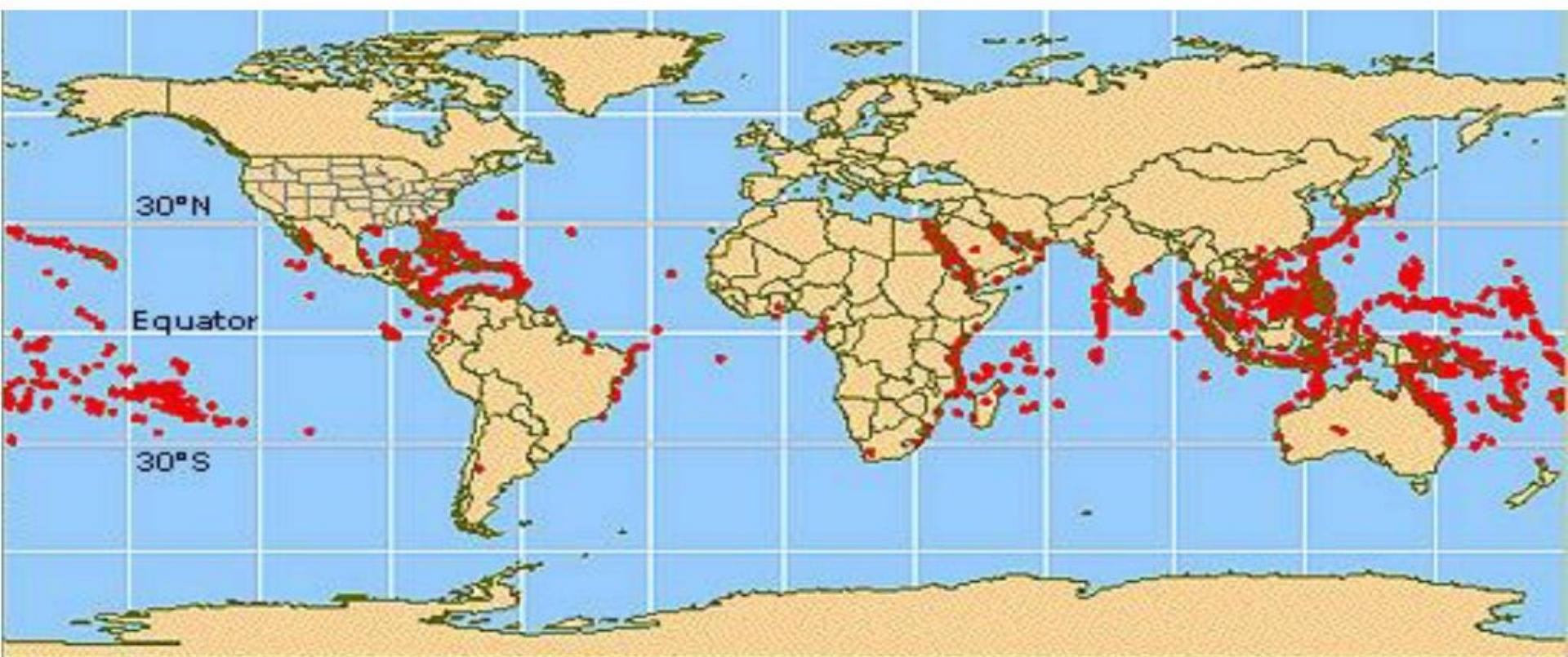
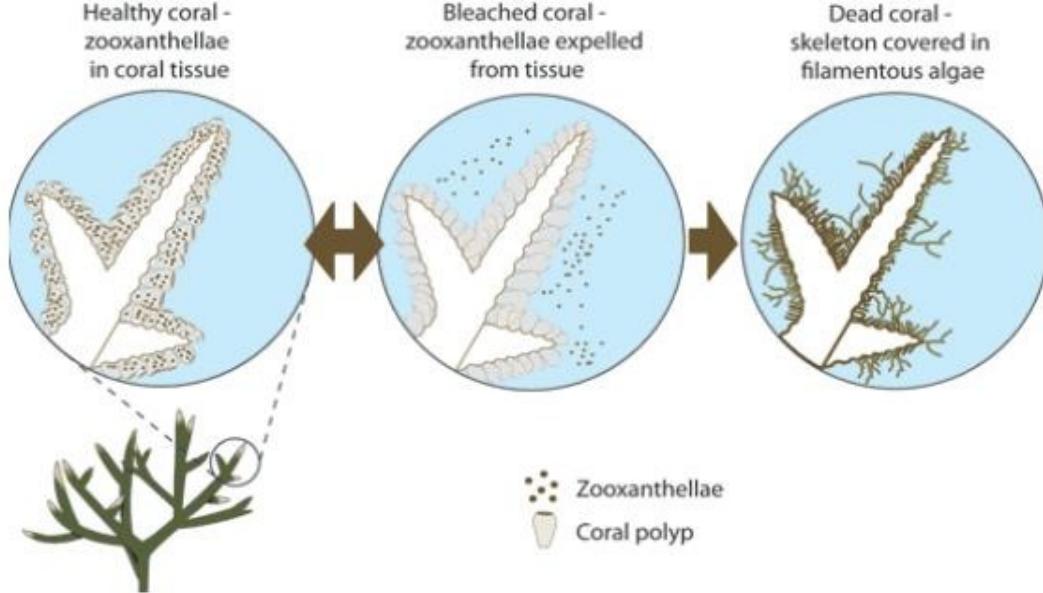


Natural Coral Reefs



Coral reefs are underwater structures made from calcium carbonate secreted by corals.

- **Coral reefs** are underwater structures made from calcium carbonate.
- Corals are colonies of tiny living animals
- Coral is formed by polyps
- Carbonate which provides the structure for the body of the coral.
- Coral reefs are among the oldest ecosystems on Earth
- Coral reefs are the largest living structure on the planet.
- Without the existence of coral reefs, parts of Florida would be under water.



Artificial Coral Reefs

- An artificial reef is a human-made underwater structure.
- Artificial reefs can be built in a number of different methods. Many reefs are built by deploying existing materials in order to create a reef.
- Some man made coral reefs conduct a charge to attract calcium.
- Examples; old wrecked cars, huge bridges, military tanks, docks, old boats, decommissioned ships, and obsolete oil rigs!





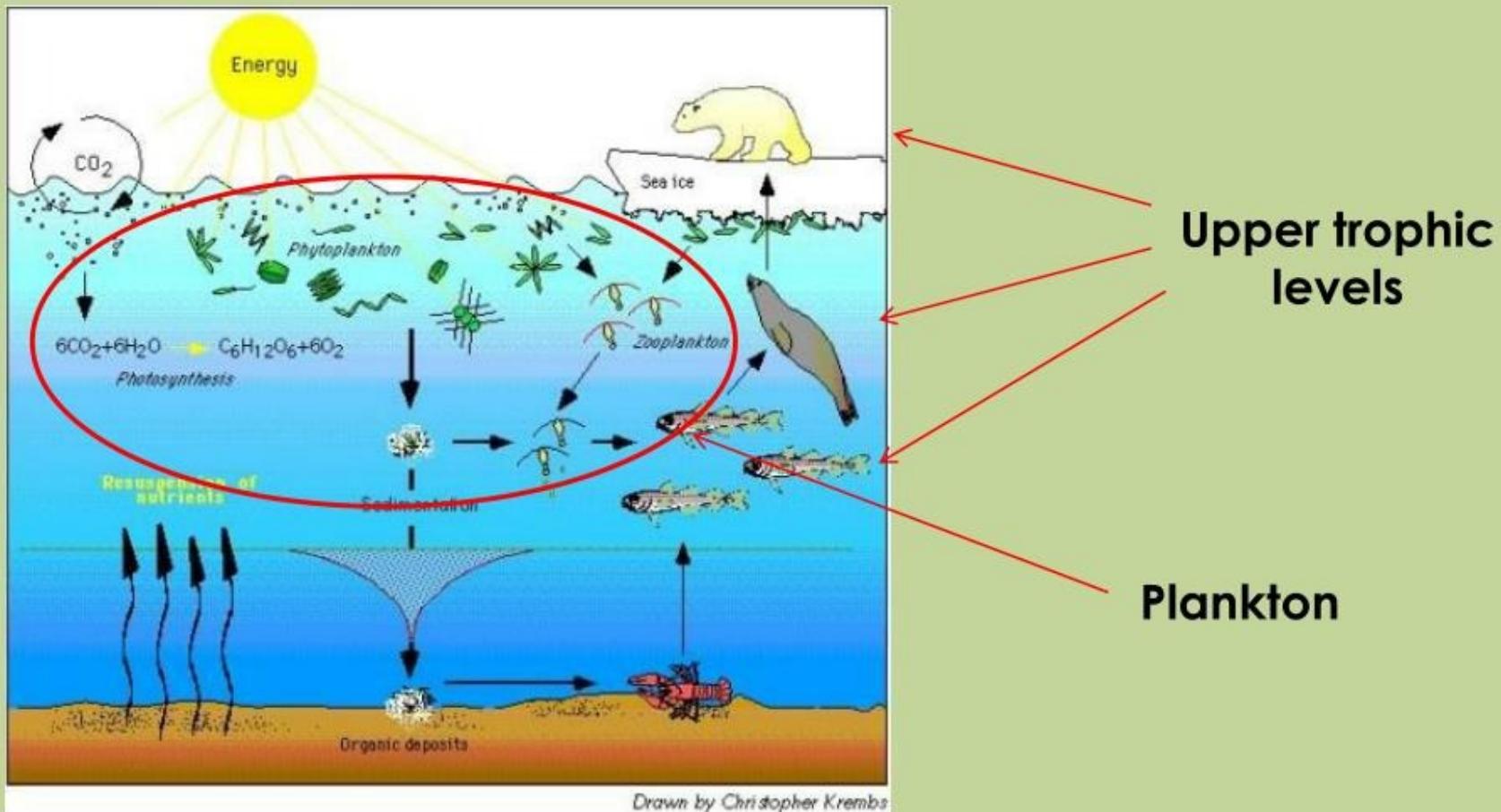
Natural Arctic Ocean

- Many species that live in the Arctic Ocean environment are unique and can't be found anywhere else in the world.
- The arctic is high in oxygen.
- Many known resources are not exploited because of their inaccessibility.
- The arctic region of Russia, the most developed of all the arctic regions.





Arctic Food Web



Artificial Arctic

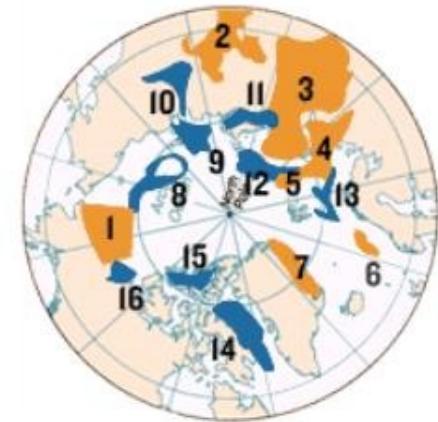
- A more sustainable environment in the Arctic.
- Drifting ice and water currents are effecting the ocean.
- Structures like oil rigs potentially having a impact on the natural environment.

"We have to think about using some... constructions, instead of blocks of drifting ice as platforms," **Alexander Frolov said.**



ARCTIC OIL BONANZA

Twenty-five percent of the world's reserves could lie buried under these areas.



Assessed Arctic Provinces

- 1. North Slope
- 2. East Siberia
- 3. West Siberia
- 4. Timan-Pechora
- 5. South/North Barents
- 6. Vestford Helgeland
- 7. East Greenland

Potential Arctic Provinces

- 8. Vilkitsky
- 9. Laptev Sea
- 10. Vilyuy
- 11. Khatanga
- 12. North Kara Sea
- 13. West Barents
- 14. West Greenland
- 15. Sverdrup
- 16. Beaufort-Mackenzie