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In shallow waters, both benthic and planktonic algae are significant, but over deeper waters and throughout the open oceans, only the phytoplankton contributes, apart from the drifting masses of Sargassum weed that occur in some areas of the ocean. Among the algae, both benthic and planktonic, the variety is considerable.

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Even small variations in primary
productivity can affect carbon dioxide
concentrations, as well as influencing
biodiversity and fisheries. As ocean
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Productivity in the Oceans: Volume ...
Many models of ocean chemistry and
biology predict that as the ocean
surface warms in response to
increasing atmospheric greenhouse
gases, phytoplankton productivity will
decline. Productivity is expected to
drop because as the surface waters
warm, the water column becomes
increasingly stratified ; there is less
vertical mixing to recycle nutrients
from deep waters back to the surface.

What are Phytoplankton? - NASA
Model estimates of net primary
production (NPP) that are inclusive of
the Arctic Ocean (AO) are now
available or coming online, ranging
from simpler ones that largely address

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phytoplankton physiology or
phytoplankton-zooplankton
coupling, to general circulation
models that simulate the AO
circulation, including sea ice, and that
now incorporate biogeochemistry,
food webs, and, in some cases, even
sea-ice algae.

An assessment of phytoplankton
primary productivity in the ...
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Plankton and Productivity in the
Oceans: Phytoplankton v ...
Carbon dioxide emissions—like the

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kind that cars produce—are absorbed by phytoplankton on the ocean surface. "The plankton absorb the carbon dioxide like a tree," Barton says, "and when they die, they sink to the bottom of the ocean and that carbon is locked away for thousands of years. If not for phytoplankton, the carbon dioxide [in the atmosphere] would be higher, and the climate would be warmer."

Global Warming Is Putting the Ocean's Phytoplankton in ...
Phytoplankton are the autotrophic components of the plankton community and a key part of oceans, seas and freshwater basin ecosystems. The name comes from the Greek words *phytos*, meaning "plant", and *plankton*, meaning "wanderer" or "drifter". Most

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phytoplankton are too small to be individually seen with the unaided eye. However, when present in high enough numbers, some varieties may be noticeable as colored patches on the water surface due to the presence of chlorophyll within ...

Phytoplankton - Wikipedia

Plankton are the diverse collection of organisms that live in large bodies of water and are unable to swim against a current. The individual organisms constituting plankton are called plankters. They provide a crucial source of food to many small and large aquatic organisms, such as bivalves, fish and whales. Planktonic organisms include bacteria, archaea, algae, protozoa and drifting or floating animals that inhabit—for example—the pelagic zone of oceans,

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seas, or bodies of fresh water...

E. G. Raymond

Plankton - Wikipedia

If we had not lost 50% of the plankton productivity then the oceans would have been absorbing up to 24 Giga tones of carbon dioxide, and we would not be experiencing climate change.

Due to the inertia in the system we don't have 25 years, we only have about 10 years to eliminate plastic and toxic chemical pollution.

Life on earth depends on plankton in the oceans, in 25 ...

Description. Plankton and Productivity in the Oceans, Second Edition, Volume 1: Phytoplankton presents the different varieties of phytoplankton and nanoplankton forms; the types and temporal changes in phytoplankton

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communities; and the primary production of planktonic algae in the seas. Chapters discuss the physical and chemical characteristics of the marine environment in relation to plankton production; planktonic community temporal and spatial variations; and the taxonomy, horizontal and ...

Phytoplankton | ScienceDirect
Marine Biology: Ocean Primary Productivity Abiotic factors like solar radiation and nutrients, and biotic factors like zooplankton predation may affect ocean primary productivity. Productivity varies with the season, and also locally and globally.

Ocean Productivity
For World Oceans Day the BBC

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Unplugged Team explore how vital
Plankton really are. Subscribe to BBC
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Why are Plankton the Most Vital
Organisms on Earth? | BBC ...

The productivity in nearshore areas is always higher than the productivity in open oceans, even in comparatively productive areas of temperate and south subpolar zones. In response to the change in climate, the zones of high and low productivity change. In temperate zone, the typical productivity is about $120 \text{ gC/m}^2 \text{ /yr}$.

Where in the ocean is plankton
productivity the greatest ...

"The amount of productivity in the oceans roughly scales with how much phytoplankton you have. So this

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translates to 10 percent of the marine food base in this region that's been lost over the...

Phytoplankton decline coincides with warming temperatures ...

Phytoplankton, the major biomass producers in aqueous ecosystems play an important role in regulation of global climate. Several abiotic factors such as light, temperature, CO₂ concentration,...

(PDF) Phytoplankton productivity in a changing global climate

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The vast quantity of organic carbon fixed by phytoplankton in the sunlit layer of the ocean provides the primary source of energy for marine food webs and the global phytoplankton community grows, divides, and expires (to grazing or viral lysis) every few days (Behrenfeld and Falkowski, 1997a; Bidle, 2015). Approximately 85–90% of the carbon fixed through primary production in the euphotic zone will remain within the upper ocean, including the twilight zone, where it is remineralized and ...

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