

3.4.6

BIOL

Potential effects of global warming

Higher temps + more CO_2 = more photosynthesis.
 Plants grow more: more food for insect pests.
 Also, $\uparrow T$ = $\uparrow$ enzyme activity, so life cycles of organisms happen faster. Habitats of pests expanded due to $\uparrow T$: mosquitoes: range of infectious diseases changed.
 Sea levels rise by melting of glaciers and expansion of water: ice albedo effect on ice to reflect sunlight so more absorbed by land.
 Higher ocean surface temp. more storms/hurricanes.
 Drier atmosphere may lead to more forest fires.
 Climate can affect rain $\rightarrow$ affects agriculture.

3.4.6

For wood/clearance

BIOL

Effects of deforestationSOIL FERTILITY

Soil structure not stabilised by roots/no shelter from wind/rain. Nutrients not replaced.

FLOODING / LANDSLIPS

Rainfall not absorbed by roots/foliage so H₂O accumulates.

RECYCLING OF MATERIALS

Less CO_2 in photosynthesis so $\uparrow$.

O_2 diminished.

CLIMATIC CHANGES

Reduced transpiration = drier atm. Heat absorption by land