

## Global Warming and Human Pollution as the Major Causes of Coral Bleaching

Department of Environmental, Earth & Ocean Sciences of University of Massachusetts, USA

## C , a B eac

Coral bleaching occurs while corals degrade or expel their dino agellate symbionts in reaction to environmental stressors inclusive of expanded sea oor temperature and elevated UV radiation[1]. Although corals can reacquire symbionts and recover in weeks to months, recovered corals may also grow slower and feature decreased fecundity in comparison to formerly unbleached corals, giving bleaching-resistant corals an ecological bene t a er bleaching events. In extreme cases, bleaching may also arise on the scale of hundreds to thousands of kilometres and radically modify coral cover and composition with coral mortality from bleaching events approaching 100% in extreme cases. Branching corals inclusive of acroporid and pocilloporid corals are o en more susceptible to bleaching and mortality than are massive corals, allowing the slowerdeveloping huge corals to be extra chronic on reefs a er bouts of robust bleaching [2]. Bleaching occasions now no longer only lower live coral cover however additionally o er large areas for seaweed colonization, and these seaweeds can prevent corals from re-establishing if herbivores aren't present in enough numbers to suppress seaweed colonization and growth. Additionally, large-scale bleaching and mortality of branching corals can suppress sh populations that are dependent on live coral for shelter and food.

Ca.e	fc,a	b eac	:	ba	, ą	ad.	a
· • •							
		0			5	ars, global wari	0

has caused seawater temperatures to rise, and the greenhouse e ect has also caused "ocean acidi cation" that weakened coral's absorption of calcium carbonate [3]. When coral reefs aren't strong enough to resist natural erosion, it will take longer for them to recover from bleaching. e optimal water temperature variety for coral increase is 20-28°C. If the water temperature is decrease than 18°C or more than 30°C, maximum corals will expel the symbiotic algae in their body, causing bleaching or even death [4]. If the range of typhoons in Taiwan this year is expected to live low, the situation of coral bleaching will seem pessimistic while the sea temperature remains high. It is worth noting that short-term changes in sea temperature will not cause bleaching. e main motive of massive-scale coral bleaching is o en the continuous abnormal warming of the seawater.

Cac, a, ec, e, f, b eac ?

Robyn Hannigan, Department of Environmental, Earth & Ocean Sciences of University of Massachusetts, USA, Tel: 8966452785; E-mail: robynhannigan@556gmail.com

 
 11-Jan-2022, Manuscript No: jmsrd-22-54172,
 13-Jan-2022, PreQC No: jmsrd-22-54172(PQ),
 18-Jan-2022, QC No: jmsrd-22-54172,
 24-Jan-2022, Manuscript No: jmsrd-22-54172(R)

 31-Jan-2022, DOI: 10.4172/2155-9910.1000321

Hannigan R (2022) Biosynthesis of Agar in Red Seaweeds and Biological Activities of Seaweeds. J Marine Sci Res Dev 12: 321.

© 2022 Hannigan R. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.