**THE ISSUE OF CORAL BLEACHING**

Coral Bleaching is one of the most solemn problems that is currently affecting coral reefs, the most important component of oceans. When corals are under strain, they expel their algae and start to bleach. Unpredictably, bleaching events are not a dying process but they rather leave corals vulnerable to disease and famination, unhinge their growth, affect their repriduction. Even though corals are dispersing over a tiny amount of place on the ocean surface, they are a living resource to more than a quarter of all marine life. Thus, coral bleaching is able to dissipate these marine creatures which are depending on them such as some species of fish, seaweeds, reptiles, fungi etc. And this extinction may cause other ecosystems of World to go extinct in the long-term period.

Coral reefs are quite weighty to people as well as marine life. With a global economic value of $375 billion in a year , coral reefs provide income for approximately 500 millions of people in over 100 territories.

**THE LEADING CAUSES**

There are a variety of leading causes to coral bleaching. The most effective one is, as you may know, global temperature increase due to carbon pollution. However, coral reefs are at stake from contaminated waterfalls and overfishing as well.

The process of coral bleaching is triggered by overheating. Basically, when corals are overheat, they expel the algae that live in their tissues. Unfortunately oceans are maintaining to warm by external forces. In addition to that , the wild amounts of carbon dioxide which oceans absorb are changing the chemistry of the waterfalls and increasing aridification since oceans are absorbing %93 of the extra heat. Ocean aridification causes to hinder the rate of calcium carbonate generation which is helping coral reefs to build their skeletons.

Ocean pollution leads sediment to enter the water and intertwine with the other organisms of ocean. This may also be detrimental for coral reefs by smothering them.

According to a presentation at the ocean sciences meeting in San Diego, we’ve lost %50 of coral reefs in the past 20 years, more than %90 are expected to go extinct by 2050 if we dont act fast.

**TAKING ACTION**

Now lets talk about taking action... As it was stated before, coral reefs are chiefly bleaching due to climate change. So we have to take a global action to both impede bleaching and recover bleached corals. Well you might think that it is almost impossible to take a nation wide action because of some for-profit organisations and greedy governments. Our minute labors to prevent coral bleaching may seem trifling but many a mickle makes a muckle! So we should consider this catastrophic situation in a more sanguine way.

Well of course the first step to contribute taking action is to diffuse the issue. There are a variety of options for you to diffuse the issue. You can at least talk to your friends or your family about it. Our main purpose is spreading the information through younger people so if you are a high school, university or even a middle school student, you can give a speech to your class and then send us the record of it. But if you are not okay with the idea of giving speech to a crowd or if you are too old to go to a school then it is okay! You can also give a speech to your family or friends and send the record of it to our e-mail!