WHAT IS OCEAN ACIDIFICATION?

Ocean acidification (OA) is a climate-ocean impact. Carbon dioxide emissions are being absorbed by the ocean and altering the chemical balance of seawater which marine life depends upon for survival.

We must dramatically reduce carbon dioxide emissions.

Multiple impacts of climate change to our ocean:
- Ocean warming
- More frequent and intense storms
- Loss of marine and shoreline habitat
- Sea-level rise
- Sea ice melt
- Climate variability
- Changing ocean circulation
- Hypoxia

Together, these impacts are causing harm by displacing people, damaging coastal communities and property, decreasing food security and impacting jobs.

THE OCEAN HAS BUFFERED US FROM THE WORST IMPACTS OF CLIMATE CHANGE BY:
- Absorbing 93% excess heat
- Absorbing 30% carbon emissions

RESULTING IN A MORE ACIDIFIED + WARMER + LESS OXYGENATED OCEAN

THESE CHANGING OCEAN CONDITIONS HAVE COMBINED IMPACTS:
- Marine heat waves
- Harmful algal blooms
- Coral bleaching
- Increased stratification

WE ARE SEEING HARMFUL IMPACTS:
- Weakening and reduced growth of shell forming species
- Impacts to behaviour and survival
- Changes to natural food webs
- Weakening and slower growth of coral reef

OA IS THREATENING ECOSYSTEM SERVICES THAT HUMANS DEPEND ON:
- Fisheries & aquaculture
- Food security
- Economies & livelihoods
- Cultural practices & traditions

Learn more at: www.OAAlliance.org