

# Statement of the Coral Reef Crisis Working Group Meeting, The Royal Society 6 July 2009

Coral reefs are the most biologically diverse habitats of the oceans and provide essential ecosystem goods and services to hundreds of millions of people.

Temperature-induced mass coral bleaching causing widespread mortality on the Great Barrier Reef and many other reefs of the world started when atmospheric CO<sub>2</sub> exceeded 320ppm.

**At today's level of ~ 387ppm CO<sub>2</sub>, reefs are seriously declining and time-lagged effects will result in their continued demise with parallel impacts on other marine and coastal ecosystems.**

Proposals to limit CO<sub>2</sub> levels to 450ppm will not prevent the catastrophic loss of coral reefs from the combined effects of global warming and ocean acidification.

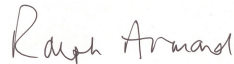
**To ensure the long-term viability of coral reefs the atmospheric CO<sub>2</sub> level must be reduced significantly below 350ppm.**

In addition to major reductions in CO<sub>2</sub> emissions, achieving this safe level will require the active removal of CO<sub>2</sub> from the atmosphere.

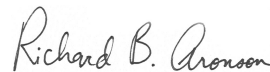
**Given the above, ecosystem-based management of other direct human induced stresses on coral reefs, such as over-fishing, destructive fishing, coastal pollution and sedimentation, will be essential for the survival of coral reefs on which so many people depend.**



Sir David Attenborough  
Working Group Co-Chair



Ralph Armond, Director General,  
Zoological Society of London



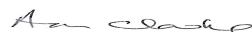
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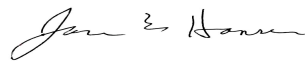
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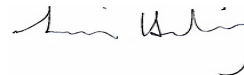
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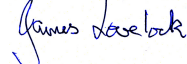
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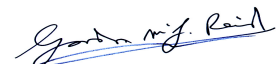
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Prof Justin Marshall, President,  
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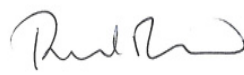
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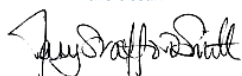
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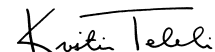
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