Public Comments on the U.S. Commission on Ocean Policy’s Preliminary Report

Topic Area: Marine Debris

Comments Submitted by:

- Charles Moore, Algalita Marine Research Foundation
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FROM: Captain Charles Moore  
Founder, Algalita Marine Research Foundation  
148 N. Marina Drive  
Long Beach, CA 90803  
562-598-4889  
email: cmoore@algalita.org

TO: Reviewer of Public Comments  
U.S. Commission on Ocean Policy  
1120 20th Street, NW  
Suite 200 North  
Washington, D.C. 20036  
Fax: 202-418-3475

SUBJECT: Public Comment on Preliminary Report  
Chapter 18: Reducing Marine Debris

Algalita Marine Research Foundation has been studying the problem of marine debris for the past decade. While we find the information in Chapter 18 of the Commission's Preliminary Report "Reducing Marine Debris," to be extremely valuable, we believe the most significant component of marine debris has been completely overlooked.

Both pre and post-consumer plastic particulates in our oceans outweigh and in some cases even outnumber the zooplankton with which they are intermixed.¹ These particulates have been increasing since at least the 1960’s, and are readily ingested by marine invertebrates.² The particles, which are the breakdown products of consumer plastics and industry feedstock, may be a greater threat to the marine environment than whole objects which are picked up during beach cleanups; indeed they probably outweigh and surely outnumber them, and are found throughout the water column.³

Since plastics in the marine environment concentrate persistent hydrophobic pollutants, they have the potential to transport them throughout marine food webs.⁴

Any assessment of marine debris should take these findings into account, and any monitoring plan should include monitoring of plastic particulates.

Captain Charles Moore  
2) Thompson et al, "Lost at Sea: Where Is All the Plastic?” Science 304, 7 May, 2004  
3) Lattin et al, "A comparison of neustonic plastic and zooplankton at different depths near the southern California Shore," Article in Press  