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Lizzie Buchen; published February 25, 2008

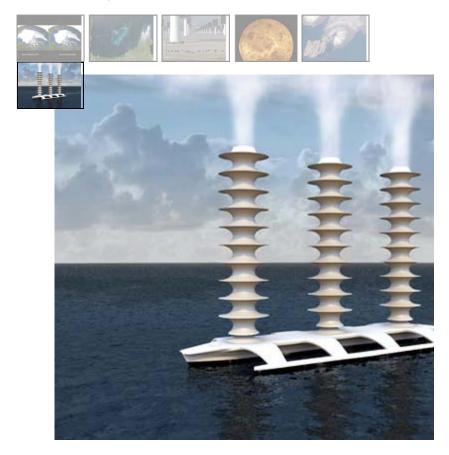


Image courtesy of John MacNeill

#### WELCOME TO PLANET SEATTLE

How it works: Marine stratocumulus clouds blanket about a third of the world's oceans, mostly around the tropics, reflecting sunlight and shading the seas. To give clouds a boost in reflectivity, University of Edinburgh engineer Stephen Salter and John Latham, an atmospheric physicist based at the National Center for Atmospheric Research in Colorado, have designed a fleet of vessels that would continuously spray a fine mist of saltwater into the air. As the ships moved through the ocean, Flettner rotors would draw seawater into the spraying system and geyser the droplets at high speed from the tops of the rotors. The water droplets would evaporate as they rose to the clouds; water vapor in the clouds would then condense on the remaining salt, making the clouds thicker and more reflective. Latham and the appropriately named Salter estimate that about 1,000 ships would be required to make the plan effective.

*Pros:* Effects are short-lived, so if there's some deleterious effect, the process could be stopped immediately. It's a relatively cheap system to maintain (no one's put a price on seawater yet), and the ships would be wind-powered, radio-controlled, and unmanned.

*Cons:* Effects are short-lived, so you'd have to spray continuously. Another fear is that salt particles could, ironically, impede the formation of rain clouds, causing droughts.

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