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Sea-going hardware for Latham's albedo control.

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This paper describes some aspects of the design of practical sea-going hardware to implement John Latham's proposal for the exploitation of the Twomey effect to increase cloud albedo. Two new ideas promise large reductions in the energy requirement for spray generation. One involves the use of micro-fabrication technology to make a billion 'watering can' nozzles in a 4 inch silicon wafer. This will let us produce 30 kg a second of 0.8 micron drops. The second is the use of Pelton wheels to drive the Flettner rotors used for driving the sailing ships. This avoids the need for the development of a special new electric motor with a one metre diameter central hole. The wheels can be driven by the by-pass flow from the three-port cross-flow filters. I would hope also to report results of sea trials of a Flettner conversion of a Searunner 34 trimaran being carried out by John Marples.