

From: Douglas Grandt answerthecall@mac.com
Subject: Marine Cloud Brightening and much more (#2 follow-up)
Date: April 18, 2023 at 4:37 PM
To: Dave Borlace justhaveathink@gmail.com
Cc: Rebecca Bishop rebeccab9@gmail.com



Dear Dave,

This is a follow-up to my previous letter sent moments ago, with additional information suggested by **Rebecca Bishop**. The following are predominantly her words (I've made a few minor alterations) which complement and expand upon mine.

Many people are trying to encourage purposeful action by governments, industry and individuals, and to overcome the fear engendered by the terrible state we are in, and your work does this so well.

As Rebecca mentioned, she and I are both participating in several google groups with a focus on **cooling the planet**, primarily through **brightening (albedo enhancement)** but also including biochar and other **natural methods of increasing drawdown**.

A bit more on the five Google Groups* which have overlapping membership and deliberate the gamut from highly technical minutiae to policy and communication strategies. **We target 300ppm (0.0°C)**, specifically sharing knowledge and ideas pertaining to:

- a. climate and earth sciences, to show that planetary cooling can be done before tipping points are reached,
- b. scoping and intellectually testing various options for planetary cooling, especially the work of group members such as Emeritus Professor Stephen Salter, and
- c. trying to reach decision-makers and the public so that development and field testing of the options can be ramped up.

Our frustration (almost tending to a kind of despair) is that key messages aren't understood or acted on by the climate change movement.

These key messages include:

- a. **Cooling the Arctic** can be expected to slow or prevent tipping points in the polar region, with positive impacts on other tipping points – we have explanations of the planetary dynamics that you are very familiar with
- b. **The risk of not acting** (at least by field testing) is far greater than the risk of waiting for Net Zero (decarbonisation and drawdown) to be achieved
- c. **Nature-based oceanic cooling and sequestration** measures (particularly Marine Cloud Brightening) seem effective and with few or no side effects.
- d. Therefore, in summary, achieving a safe climate and ecological restoration should have three streams of activity, with **planetary cooling an immediate action alongside decarbonisation and drawdown**.

We will continue to advocate about this, and we think that some time (we hope soon), there will be a change in zeitgeist (or a scientific revolution) and hence in permission for collective actions.

Regarding climate science, we do spend time looking at the implications of differences between (for example) James Hansen and Michael Mann, but this does not affect the **key message: we must act now to prevent tipping points**. Further, we know that humankind can find the resources if needed.

Finally, we know we are sympatico with the mainstream climate movement in intent (represented so well by 350.org founded by **Bill McKibben** and seven Middlebury College (VT) students, and we are on collaborative terms with many. But we find a mixed set of messages and **no clear focus on cooling the planet as a short term, emergency measure**.

My reason for setting it out here is to help you look at your messaging, and also to invite you to a meeting focusing on communications and strategy. Clive Elsworth says he has spoken with you and we all recognise your expertise technically and in communicating.

Restating our proposal: We would love to answer questions you may have about our message and include you in one of the zoom meetings, which are conveniently scheduled on Monday, Thursday and Saturday **evening (UK)**, afternoon (US east coast), noon (US west coast), and morning (Australia).

Cheers,
Doug Grandt
Putney, Vermont, USA

* [Healthy Climate Alliance](#) (zoom meetings fortnightly Saturdays)
[Healthy Planet Action Coalition](#) (zoom meetings fortnightly Thursdays)
[Planetary Restoration Action Group](#) (zoom meetings fortnightly Mondays)
[Nature-based Ocean & Atmospheric Cooling](#) (zoom meetings fortnightly Mondays)
[Carbon Dioxide Removal](#) (no zoom meetings)

Reference websites:

HPAC home page: <https://HealthyPlanetAction.org>

PRAG home page: <https://PlanetaryRestoration.net>

PRAG archives: Bit.ly/PRAGarchive & Bit.ly/PRAGfundamentals)