

**From:** [REDACTED] >  
**Date:** Tuesday, 4 May 2021 at 09:31  
**To:** Wendy McGuinness <[wmcg@mcguinnessinstitute.org](mailto:wmcg@mcguinnessinstitute.org)>  
**Subject:** RE: OIA request 2021/10: Natural GHG emissions - three questions

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Dear Wendy,

Thank you for your OIA request. We respond as follows:

Question 1. Greenhouse gas emissions associated with natural hazards is not an area in which NIWA has done extensive research. Attached are the two relevant papers we were able to locate.

Question 2. We do not hold this information. I suggest contacting other relevant agencies, such as GNS Science and Scion, to ask whether they have any relevant papers authored by their scientists. I would also suggest examining the references in the attached papers for any other papers that may be helpful to you. For example, the paper <https://doi.org/10.1002/2016GC006643>, co-authored by a scientist from GNS Science, is referenced in one of the attached papers and may be relevant.

Question 3. Attached are the monthly average baseline CO<sub>2</sub> data for Baring Head from 1973 to 2020. Please read the explanatory notes in the file. You will find the data in the second sheet of the document.

Please note, under section 28(3) of the Act, you have the right to seek an investigation and review by the Ombudsman of this decision.

Kind regards,

[REDACTED]