



9(2)a

Tēnā koe 9(2)a,

Thank you for your email of 11 February 2024 to the Ministry for the Environment (the Ministry) requesting the following under the Official Information Act 1982 (the Act):

Can you please advise whether:

- 1. MfE holds any information about the prospect of Amoc breaking down. If so please provide that information.*
- 2. MfE holds any information about the implications for the environment if a breakdown of Amoc does occur. If so please provide that information.*
- 3. MfE holds any information about the implications for world food production and world food trade if a breakdown of Amoc does occur. If so please provide that information.*
- 4. MfE has provided any advice to ministers, either formally or informally and either orally or in written form (either draft or final) about the implications of a breakdown of Amoc.*

The Ministry has identified 16 documents in total in scope of your request, as listed in the attached table. 10 of these documents are publicly available and the links have been provided to you in the document table. The remaining 6 documents have been provided to you in full.

In response to question 1 of your request, the Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report falls in scope of this part of your request. This report is publicly available here: <https://www.ipcc.ch/assessment-report/ar6/>. You may also find it helpful to know that the final government draft versions of the Fifth and Fourth Assessment Reports of the IPCC are publicly available here: <https://www.ipcc.ch/assessment-report/ar5/> and <https://www.ipcc.ch/assessment-report/ar4/>.

In response to question 4 of the request, the Ministry has not provided advice to ministers, either formally or informally and either orally or in written form (either draft or final) about the implications of a breakdown of Amoc. Therefore, we must refuse this part of the request under section 18(g) of the Act as the Ministry does not hold the information requested and we cannot think of any other agency that would hold it, or whose functions would be more closely connected to it.

You have the right to seek an investigation and review by the Office of the Ombudsman of my decision to withhold information relating to this request, in accordance with section 28(3) of the Act. The relevant details can be found on their website at: www.ombudsman.parliament.nz.

Please note that due to the public interest in our work the Ministry for the Environment publishes responses to requests for official information on our [OIA responses page](#) shortly

after the response has been sent. If you have any queries about this, please feel free to contact our Ministerial Services team: ministerials@mfe.govt.nz.

Nāku noa, nā,

A handwritten signature in blue ink, appearing to read 'S. Heighway', with a long horizontal flourish extending to the right.

Sophie Heighway
Manager – Climate Impacts
Ministry for the Environment | Manatū Mō Te Taiao

Document schedule

No.	Document date	Content	Decisions	OIA sections applied
Question 1				
1	January 2006	Avoiding Dangerous Climate Change: https://www.cambridge.org/gb/universitypress/subjects/earth-and-environmental-science/climatology-and-climate-change/avoiding-dangerous-climate-change?site_view=desktop	Refused in full	18(d)
2	June 2005	Currie - dilution of Atlantic ocean - Science June 2005 (53367)_874588.pdf	Released in full	N/A
3	February 2009	Economic valuations of marine ecosystems - Fondazione Eni Enrico Mattei (900476)_2371228.pdf	Released in full	N/A
4	November 2009	Ensembles_final_report_Nov09 (706870)_2019480.pdf: https://www.researchgate.net/publication/258437973_ENSEMBLES_climate_change_and_its_impacts_summary_of_research_and_results_from_the_ENSEMBLES_project	Refused in full	18(d)
5	March 2005	Global warming commitment - Wigley, Meehl - Science (March 2005) (52811)_874299.pdf	Release in full	N/A
6	May 2019	Haustein_et_al_2019_A limited role for unforced internal variability in 20th c warming_12959924.pdf: https://journals.ametsoc.org/view/journals/clim/32/16/jcli-d-18-0555.1.xml	Refused in full	18(d)
7	April 2004	McManus_et_al-AtlanticMeridionalCirc-Nature21apr04 (53407)_874626.pdf	Release in full	N/A
8		Review of climate science developments since IPCC AR4 (921339)_2402642.pdf: https://www.academia.edu/1202716/An_updated_review_of_developments_in_climate_science_research_since_the_IPCC_Fourth_Assessment_Report	Refuse in full	18(d)
9	November 2011	SOER-2010-Synthesis-EN-final-web-single-pages-new_5431736.pdf: https://www.eea.europa.eu/soer/2010	Refuse in full	18(d)
10	December 2005	UKCIP guidance note on MOC changes (133525)_953074.pdf	Release in full	N/A
11	2017	Valuing Climate Damages - Updating Estimation of the Social Cost of Carbon Dioxide_9772329.pdf :	Refuse in full	18(d)

		https://nap.nationalacademies.org/catalog/24651/valuing-climate-damages-updating-estimation-of-the-social-cost-of		
12	2019	Willeit et al 2019 Mid-Pleistocene transition in glacial cycles explained by declining CO2 and regolith r_12958600.pdf	Release in full	N/A

Question 2

13	May 2006	Convention on biodiversity - technical series No.25 (254288)_1184459.pdf: https://www.cbd.int/doc/publications/cbd-ts-25.pdf	Refuse in full	18(d)
14	May 2023	Net Zero+.pdf: https://www.oecd.org/environment/net-zero-da477dda-en.htm	Refuse in full	18(d)
15	November 2021	the_cost_of_delaying_action_to_stem_climate_change (1602700)_4461627.pdf: https://www.oecd.org/publications/managing-climate-risks-facing-up-to-losses-and-damages-55ea1cc9-en.htm	Refuse in full	18(d)

Question 2 and 3

16	July 2014	OECD climate change adaptation document.pdf: https://scholar.harvard.edu/files/stock/files/cost_of_delaying_action.pdf	Refuse in full	18(d)
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