Reasons for concern - AR5: 2. Extreme weather events

|  |  |
| --- | --- |
| (Description not yet available)Database id: 189 ([link](https://climrisk.org/cree/ember/189)).This ember is found in the following figure(s):Figure 19-4 of AR5-WGII-Chapter19; (as a rule, summaries are not listed here)The ember diagram included in this document is based on the assessment provided in the IPCC report and supplementary material listed below, but it does not come from the IPCC; all additional information is provided in view of helping to understand this diagram and is also based on, or reproduced from, the same IPCC sources. Please read the disclaimer notice at the end of this document. |  |

# Transition: undetectable to moderate

|  |  |  |
| --- | --- | --- |
| min | 0.61 | *high confidence* |
| max | 0.96 |

(Information on this transition is not available yet)

# Transition: moderate to high

|  |  |  |
| --- | --- | --- |
| min | 1.11 | *medium confidence* |
| max | 1.83 |

(Information on this transition is not available yet)

# Transition: high to very high

|  |  |  |
| --- | --- | --- |
| min | 4.61 | (Confidence level not shown on the diagram) |
| max | 6.61 |

(Information on this transition is not available yet)

# Supplementary information

Confidence levels are from O'Neill et al. 2017. There is no confidence level for high to very high risk (red to purple).

The data provided for the transitions is the result of software-based extraction from the figure published in AR5 (data doi: [10.5281/zenodo.8174853](https://doi.org/10.5281/zenodo.8174853)).

# Specific references

O’Neill, Brian C., Michael Oppenheimer, Rachel Warren, Stephane Hallegatte, Robert E. Kopp, Hans O. Pörtner, Robert Scholes, et al., 2017. “IPCC Reasons for Concern Regarding Climate Change Risks.” Nature Climate Change. doi: [10/f9tq3x](https://doi.org/10/f9tq3x).

# Reference for the source data:

Oppenheimer, M., M. Campos, R. Warren, J. Birkmann, G. Luber, B. O’Neill, and K. Takahashi, 2014: Emergent risks and key vulnerabilities. In: *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Field, C.B., V.R. Barros, D.J. Dokken, K.J. Mach, M.D. Mastrandrea, T.E. Bilir, M. Chatterjee, K.L. Ebi, Y.O. Estrada, R.C. Genova, B. Girma, E.S. Kissel, A.N. Levy, S. MacCracken, P.R. Mastrandrea, and L.L. White (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 1039-1099. url: <https://www.ipcc.ch/site/assets/uploads/2018/02/WGIIAR5-Chap19_FINAL.pdf>

# Disclaimer

The Embers Explorer project is not affiliated with the IPCC, is not approved or authorized by the IPCC, and is not an IPCC product. The figures presented herein are not IPCC figures, have not been subject to formal IPCC review processes and have not been endorsed by the IPCC. The IPCC does not assume any responsibility for their accuracy.

However, every effort is made to ensure that data resulting from IPCC assessments are accurately represented here, with due reference to sources.

An archive of the database on which this app is based is available on Zenodo ([doi.org/10.5281/zenodo.12626977](https://doi.org/10.5281/zenodo.12626977)) under the CC-BY 4.0 license. We have confirmed with the IPCC that this data can be distributed in this way.

[This file was generated by the Embers Explorer 1.4.0 on 2025-08-04.]