

Global Energy Policy Research | GEPR

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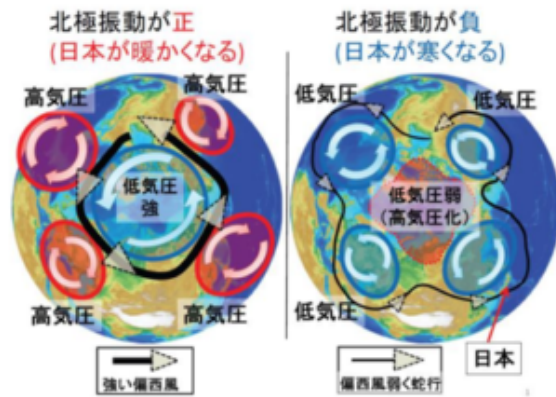
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情報提供について（お知らせ）

日本の異常気象が遠く南極に関係がある
—北極振動と南極振動が一緒に変動していることを発見—

1. 研究の概要

北極振動^{#1}と南極振動^{#1}が同期して変動^{#2}していることを発見しました。北極振動は日本の寒冬^{#3}や猛暑を引き起こし、南極振動はオゾンホールと関連します。北極と南極は地理的に互いに最も遠くに位置していることから、北極振動と南極振動の同期した変動を調べた研究はこれまでありませんでした。多発する異常気象のいくつかは北極振動が原因であり、日本の異常気象が遠い南極と関係を持つことを初めて示唆した研究です。上空のオゾン層が北極振動と南極振動の同期の仲立ちとなっていると考えています。



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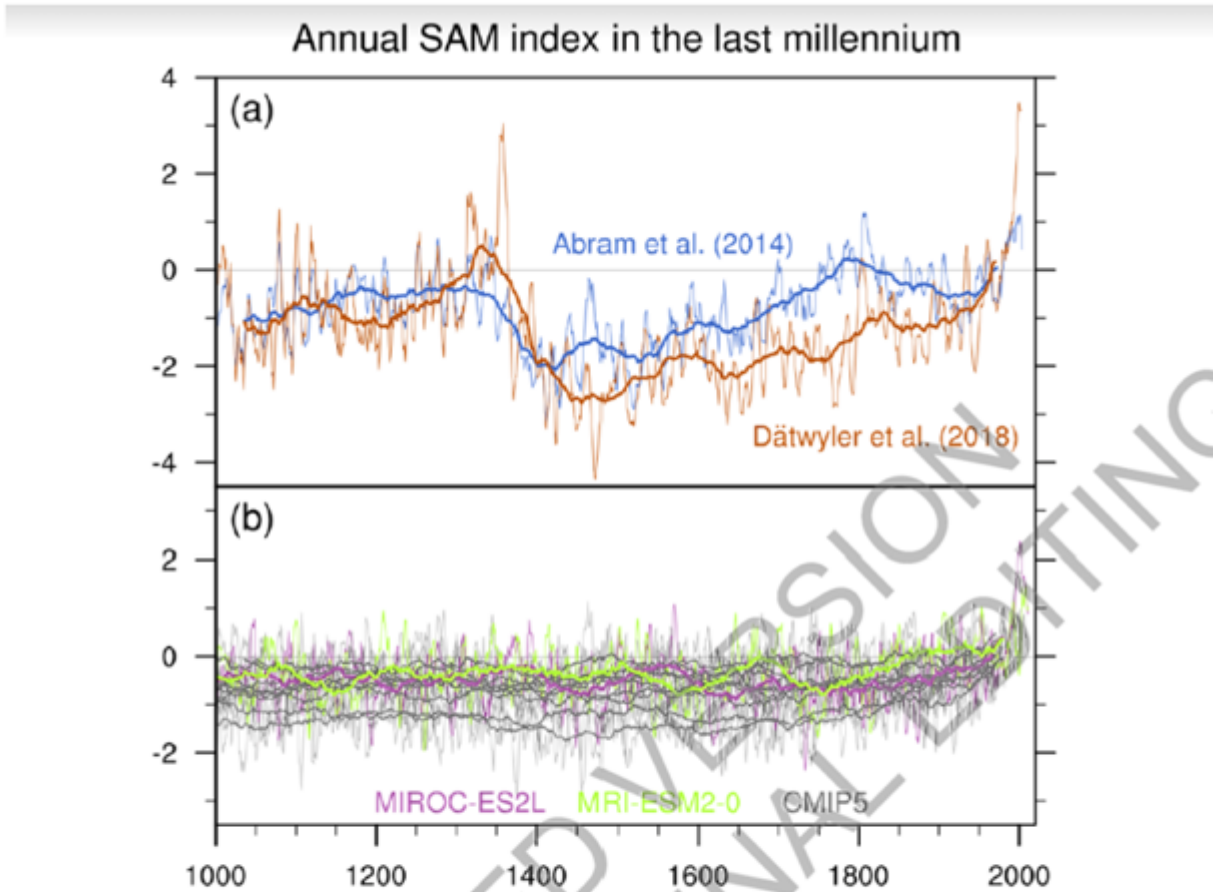


Figure 3.35: Southern Annular Mode (SAM) indices in the last millennium. (a) Annual SAM reconstructions by Abram et al. (2014) and Dätwyler et al. (2018). (b) The annual-mean SAM index defined by Gong and Wang (1999) in CMIP5 and CMIP6 Last Millennium simulations extended by historical simulations. All indices are normalized with respect to 1961-1990 means and standard deviations. Thin lines and thick lines show 7-year and 70-year moving averages, respectively. Further details on data sources and processing are available in the chapter data table (Table 3.SM.1).

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