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Late Holocene climate swings: forcings

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Although some internal variability cannot be excluded there are good reasons to assume that late Holocene climate swings are mainly due to greenhouse, solar and volcanic forcing. With the exception of orbital forcing which changes only on multimillennial time scales, all other forcing factors still suffer from considerable uncertainties. There are also significant discrepancies between different climate reconstructions.

In spite of these problems there is continuous progress and slowly a consistent picture emerges that shows that all forcings have to be taken into account, but that their respective importance is changing with time. Using solar forcing as an example we will discuss recent progress and address some of the open questions.