

SPARC Reanalysis Intercomparison Project (S-RIP)

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The climate research community uses global atmospheric reanalysis data sets to understand a wide range of processes and variability in the atmosphere. Different reanalyses may, however, give very different results for the same diagnostics. The Stratosphere–troposphere Processes And their Role in Climate (SPARC) Reanalysis Intercomparison Project (S-RIP; <https://s-rip.ees.hokudai.ac.jp/>; Fujiwara et al., 2017) is a coordinated activity to compare reanalysis data sets using a variety of key diagnostics. The objectives of this project are to identify differences among reanalyses and understand their underlying causes, to provide guidance on appropriate usage of various reanalysis products in scientific studies, particularly those of relevance to SPARC, and to contribute to future improvements in the reanalysis products by establishing collaborative links between reanalysis centres and data users. Several S-RIP studies have already been published in the ACP/ESSD inter-journal special issue (see links at the bottom of this abstract) and in other journals (see <https://s-rip.ees.hokudai.ac.jp/pubs/intercomp.html>). In the presentation, an overview of the S-RIP activity during 2013–2018 is made.

Key words: reanalysis, intercomparison, SPARC

References

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See also: The inter-journal special issue on "The SPARC Re analysis Intercomparison Project (S-RIP)" in Atmospheric Chemistry and Physics (ACP) and Earth System Science Data (ESSD):

https://www.atmos-chem-phys.net/special_issue829.html

https://www.earth-syst-sci-data.net/special_issue10_829.html