

REQUEST FOR ADDITIONAL RESOURCES IN THE CURRENT YEAR FOR AN EXISTING SPECIAL PROJECT

Please email the completed form to special_projects@ecmwf.int.

MEMBER STATE: Switzerland.....

Principal Investigator¹: Hanna Joos, Hanin Binder.....

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Other researchers: Dominik Büeler, Maxi Böttcher, Franco Lee, Franziska Scholder-Aemisegger, Heini Wernli, Annika Oertel, Leonie Villiger, Michael Sprenger

Project title: Diabatic heating rates and moist tendencies along airstreams associated with different weather systems

Project account: SPCHBOJO _ _ _ _ _

Additional computer resources requested for	2023
High Performance Computing Facility (units)	600 000
Data storage capacity (total) (Gbytes)	15 Tb

¹ The Principal Investigator is the contact person for this Special Project

Continue overleaf

Technical reasons and scientific justifications why additional resources are needed

As our special version of the IFS, which provides hourly output of all temperature and momentum tendencies is not yet running on the new system, the simulations related to work package 3 (Stratosphere – Troposphere exchange) in the special project SPCHBOJO “Diabatic heating rates and moist tendencies along airstreams associated with different weather systems” have to be moved to 2023. Franco Lee, a PhD student in our group is working together with Richard Forbes on this problem and we plan to do the first simulations in spring 2023.