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: ITALY …………………………………………………...…

Principal Investigator[1]: Andrea Alessandri ………………………………….……

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Project title: Towards seamless development of land processes for Earth System prediction and projection

Project account: **SPITALES**

Additional computer resources requested for	2019
High Performance Computing Facility (units)	1000000
Data storage capacity (total) (Gbytes)	-

Continue overleaf

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

Technical reasons and scientific justifications why additional resources are needed

One of the objectives of the special project SPITALES is to perform and analyze climate projections following the LS3MIP protocol. The development of the EC-Earth version to be used for the LS3MIP experiments required additional extensive testing runs which were not considered in the original request. Furthermore, the LS3MIP interface caused a slight decrease of model performance with a corresponding 15% SBU increase for the runs. At present date we have already used all the available resources for current year. The set of LS3MIP scenario simulations planned by the end of 2019 are running and there are about 60 years of simulations remaining.

Considering that the model with the LS3MIP interface activated requires about 17000 SBUs per year, the overall amount of additional resources requested is 1000000 SBU. No change in the storage space is required.