

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

Please submit the completed form via <https://www.ecmwf.int/en/support>

MEMBER STATE:ITALY.....

Principal Investigator¹:Stefano Federico.....

Affiliation:

CNR-ISAC (National Research Council – Institute of Atmospheric Sciences and Climate)... ..

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Project title: Improvement on NWP prediction at the short-range for high impact meteorological events
.....

Project account: **SPITFEDE**

Additional computing resources requested for year		2025
High Performance Computing Facility	[SBU]	2,000,000
Total DHS Data storage capacity	[GB]	0
EWC resources		
Number of vCPUs	[#]	
Total memory	[GB]	
Storage	[GB]	
Number of vGPUs ³	[#]	

Continue overleaf

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

Technical reasons and scientific justifications why additional resources are needed

We are involved in the project AMOS (ESA Contract No. 4000146121/24/NL/GM/lf) and we were asked for simulations of the meteorological model WRF in correspondence of Cerro Paranal astronomical observatory for 1 year (2023). These simulations could be afforded using a version of the WRF model we have installed at ECMWF.

The 2,000,000 SBU request is enough for the simulation of 3 months at Cerro Paranal (estimate based on simulations with WRF model on the ECMWF HPC). This request will ensure continuity with the SPITFEDE project of the next year, when the simulations will be continued for the remaining 9 months.