

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

MEMBER STATE: Italy

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Project title: High-impact precipitation events prediction with a convection-permitting model nested in the ECMWF ensemble

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Project account: SPI TCAPE

Additional computer resources requested for	2017
High Performance Computing Facility (units)	3 000 000
Data storage capacity (total) (Gbytes)	/

Continue overleaf

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

Technical reasons and scientific justifications why additional resources are needed

Technical reasons:

1. A small portion, estimated to be less than 5%, of the total SBU requested, were consumed to perform some preliminary tests of the IFS forecasts for the second extreme weather event (Genoa, 4 November 2011) foreseen in the second year of the SP. In fact there was the need to adapt, and hopefully improve, the configuration of the ENS forecasts from the first extreme weather event (Cinque Terre 25 October 2011) to the second extreme weather event.
2. Moreover, as stated previously (see the request of additional resources forwarded during the first year of the SPITCAPE Special Project), additional resources are required because there was an error in the SBU requested in the SP Request form, namely SBU were largely under-estimated. This problem will be partially bypassed by reducing the length of the IFS forecast (length will be up to 10 days instead of 15 days).

At the moment no additional data storage capacity is required.