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: Germany

Principal Investigator¹: Hendrik Elbern
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Other researchers: Elmar Friese

Project title: Copernicus Atmospheric Monitoring Service – Air Quality and Composition – Regional Component (CAMS_50)

Project account: SPDEFRIU

<table>
<thead>
<tr>
<th>Additional computer resources requested for</th>
<th>2019</th>
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<tbody>
<tr>
<td>High Performance Computing Facility (units)</td>
<td>200,000</td>
</tr>
<tr>
<td>Data storage capacity (total) (Gbytes)</td>
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</tbody>
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¹ The Principal Investigator is the contact person for this Special Project

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Continue overleaf
Technical reasons and scientific justifications why additional resources are needed

With the regular update of the CAMS_50 operational service in November 2018 the horizontal resolution of the EURAD_IM regional air quality forecast as well as air quality analysis has been increased from 15 km to 9 km. More computing time than expected at the time of application for this special project is needed for the daily model simulations with increased resolution.