

EMI R&D PROJECT PROGRESS REPORT

All the following mandatory information needs to be provided. The length should *reflect the complexity and duration* of the project.

Reporting year 2026

Project Title: High resolution regional reanalysis ensemble for Austria

Computer Project Account: spatawan

Principal Investigator(s): Dr. Nauman Khurshid AWAN

Affiliation: GeoSphere Austria

Name of ECMWF scientist(s) collaborating to the project
 (if applicable)

Start date of the project: 01.06.2026

Expected end date: 31.05.2029

Computer resources allocated/used for the current year and the previous one
 (if applicable)

Please answer for all project resources

		Previous year		Current year	
		Allocated	Used	Allocated	Used
High Performance Computing Facility	(units)			56.000.000	5.823.609
Data storage capacity	(Gbytes)			50000	1000

Summary of project objectives (10 lines max)

This special project extends the Austrian high-resolution regional reanalysis ensemble (ARA) from 2023 to 2028 while maintaining consistency with the existing 2012–2022 dataset.

Summary of problems encountered (10 lines max)

The project officially started only in June 2026. Consequently, no scientific simulations were performed before that date. No major technical problems have been encountered.

Summary of plans for the continuation of the project (10 lines max)

Continue production simulations for the 2023–2028 period, monitor quality, archive outputs, and perform verification.

List of publications/reports from the project with complete references

None yet. The project has only recently commenced.

Summary of results

If submitted **during the first project year**, please summarise the results achieved during the period from the project start to June of the current year. A few paragraphs might be sufficient. If submitted **during the second project year**, this summary should be more detailed and cover the period from the project start. The length, at most 8 pages, should reflect the complexity of the project. Alternatively, it could be replaced by a short summary plus an existing scientific report on the project attached to this document. If submitted **during the third project year**, please summarise the results achieved during the period from July of the previous year to June of the current year. A few paragraphs might be sufficient.

Although the project started in June 2026, substantial preparatory technical work has been completed. The complete scripting framework and e-suite workflow have been implemented and tested for automated preprocessing and post-processing. This includes preparation of observational datasets, generation and handling of lateral boundary condition data, workflow automation, job submission, monitoring, and output processing. The production environment has been migrated to the new ECMWF special project account “spatawan”, and the first production simulations are now running successfully. The project is therefore on schedule, with the initial reporting period focusing on establishing a robust and reproducible production system rather than scientific results.