

## FALL3D

**Fall 3D** is a serial/parallel (MPI) Eulerian model for the transport and deposition of volcanic tephra developed and maintained at CASE Department of the BSC-CNS. The model solves the advection-diffusion-sedimentation equation using a Finite Differences (FD) explicit scheme and can be used both to reproduce past events and to forecast on-going events (operational mode). The model has a wide community of users worldwide, including academia, research and operational institutions (e.g. the Buenos Aires Volcanic Ash Advisory Center in Argentina).

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

---

**Source URL (retrieved on 17 Jul 2024 - 15:32):** <https://www.bsc.es/es/research-and-development/software-and-apps/software-list/fall3d>