

Q3D MMF and GCSM I

◆ Talk by Joon-Hee Jung.

▲ Q3D model is being tested in stages

▲ Issues

■ Convert to CP grid -- after fully prognostic test

■ Parallelize soon after -- perhaps by JHJ

■ Introduce topography

■ Subject to wider range of tests, e.g., LES

■ Convert to hexagonal and then geodesic grid

▲ Goal is to have fully prognostic test by the next meeting

Q3D MMF and GCSM 2

◆ Talk by Celal Konor on Global Geodesic CRM based on Vector Vorticity

▲ Explains vector vorticity dynamics

- Basic equations
- Adaptation to hexagonal grid
- Discusses introduction of topography

▲ Goals

- Short-term, VVCM on hexagonal grid
 - Intermediate, VVCM on geodesic grid, with height coordinate and simple physics
 - Ultimate goal, include sophisticated physics and a hybrid coordinate
- ### ▲ For next 6 months, build dry dynamical core on perfect hexagonal grid
- Parallelize “immediately after some time”