Looking Ahead:
The Last 18 Months, and Beyond

Aspirations

We want to do interesting things.

We want to do them well.

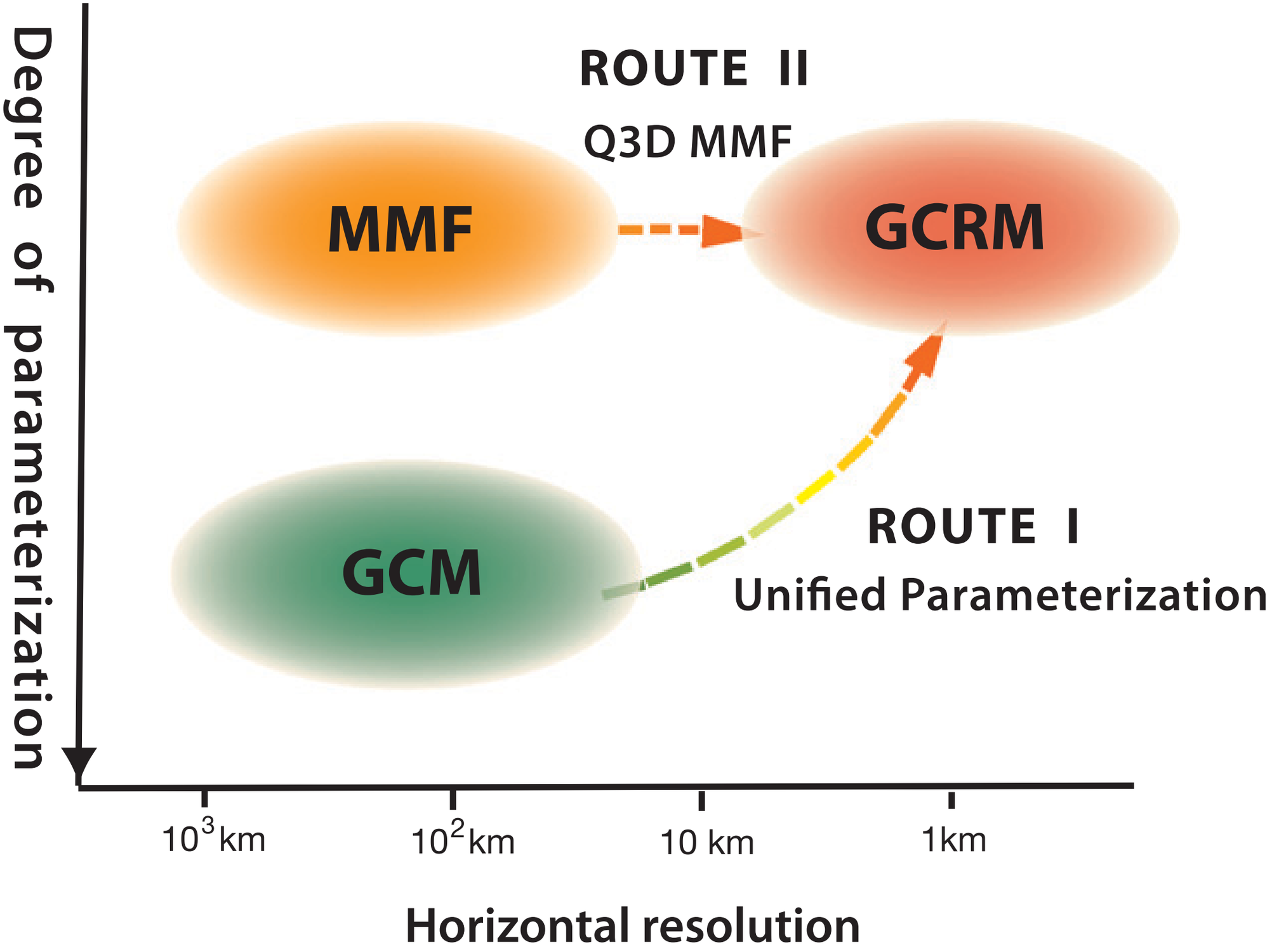
We want to “finish” them.

Once and Future Schemes

A sober assessment suggests that with current approaches the cloud-parameterization problem will not be "solved" in any of our lifetimes. We propose a *revolutionary new approach* that offers the potential for major progress on the cloud-climate problem. We will bring *much-needed focus and organization* to the modeling side of the cloud-climate research problem, coupled with a commitment to deliver to the community *both scientific understanding and practical applications*. We are going to pull the sword from the stone.

Tool Makers

- SP-CESM
- Q3D MMF
- Unified Parameterization
- GCRM
- Multi-scale land-surface coupling
- GigaLES
- VVM
- Unified System of equations
- Better turbulence parameterizations
- Outreach to ECMWF and NCEP


ROUTE II
Q3D MMF
MMF
GCRM
GCM
ROUTE I
Unified Parameterization
Degree of parameterization
10^3km
10^2km
10 km
1km
Horizontal resolution

Why did CMMAP do this?

Why not NCAR or GFDL?