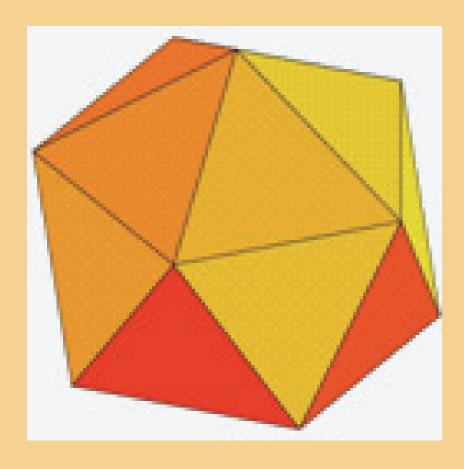


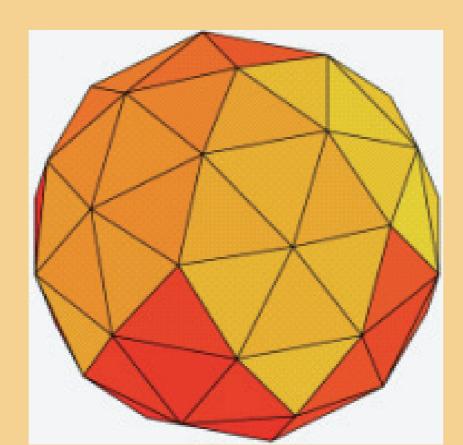


About the NICAM model

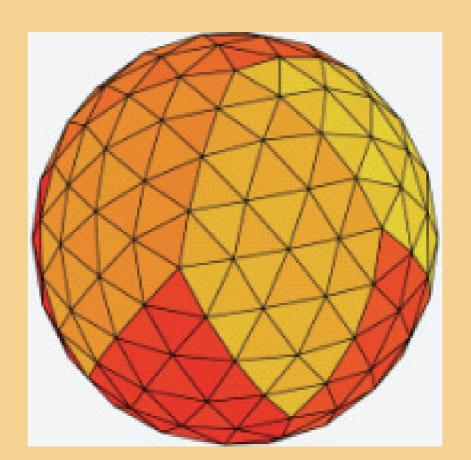
The NICAM is an icosahedral global-scale atmospheric model using the non-hydrostatic system. The original icosahedron consists of 20 triangles, which is called "glevel-0". By dividing each triangles into four small triangles recursively, one-higher resolution with "glevel-n" is obtained. The total number of grid point is $10 \times (2^{n})^{2} + 2$.







Glevel-1



Glevel-2



Glevel-5

Hurricane Simulation by Global Cloud Resolving Model, NICAM

Two tropical cyclones are simulated in the South China Sea and west of the Gulf of Mexico by NICAM with glevel-10 (7-km horizontal resolution).

The initial time of this simulation is 12Z 08 Sep 2008, and the figure shown below is a snapshot after 4 and a half days (00Z 13 Sep 2008).

About the Weather Research and Forecasting model

The Weather Research and Forecasting (WRF) model is a regional-scale numerical weather prediction and simulation model. WRF is suitable for various phenomena whose scale ranges from tens meters to thousands kilometers.

Numerical Simulation of the Explosive Mid-latitude Cyclone around Japan Island on 8 January 2007.

