

# **EOS Common Grid Proposal**

Science Working Group for the EOS AM-1 Platform

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## Future of MODIS Gridding

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### ◇ At or Near Resolution Grids:

MODIS Land will work with EDC and NSIDC to look at errors from regridding from a common MODIS grid to Goodes and Polar grids.

Expect MODIS Oceans to continue using ISCCP grid.

Make L3 software flexible to allow for testing and incorporation of future grids.

Continue to examine usefulness of other grids.

### ◇ Coarser Grid for the Global Climate Modelers and Others:

Equal Angle Grid at 1/4, 1/2 and 1 degree resolutions.

Probably choose two of the three resolutions to generate products; most likely 1/4 and 1 degree.

Algorithms for aggregation from fine resolutions grids are in the current ATBD.

We need to work with user community to determine exact format and content.

## History of EOS AM Common Grid

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- ◇ Tentative agreement reached at last full SWAMP meeting based on binned sinusoidal (ISCCP) grid as proposal by CERES.
- ◇ MODIS proposed modifications to CERES grid based on strong need for equal area at fine resolutions.
- ◇ User community responses and Pathfinder lessons learned:
  - MODIS Land - EDC DAAC recommends Goodes Homolosine, NSIDC DAAC recommends Polar Stereographic.
  - MODIS Oceans - not satisfied with CERES approach.
  - MODIS Atmosphere - ~~???~~ coarse  $1/4^\circ$  equal angle
- ◇ Consensus was not reached so each instrument will choose own grid(s).
- ◇ MODIS Beta Software uses its own version of ISCCP grid.
- ◇ Some issues such as “data-day” were never fully addressed.