OLR minus zonal mean: FM98 minus JA98

\( W \, m^{-2} \)

Global Mean = 0.000
Reflected solar minus zonal mean: FM 98 minus JA 98

$W \text{ m}^{-2}$

Global Mean = 0.000
OLR minus zonal mean: FM 98 minus JA 98

$W \ m^{-2}$

Global Mean = 0.000

Mar 16, 2000
Reflected solar minus zonal mean: FM 98 minus JA 98

\( W \, m^{-2} \)

Global Mean = 0.000
Flying TRMM, TERRA, and AQUA in the CSU GCM

1. Investigate the sampling of CERES sensors
   What can one month of satellite data tell us?
   What are the impacts of adding TERA and AQUA?
   Can diurnal cycle of convection be captured?

2. Investigate partial coverage of grid cell by satellite swath
   A common problem when converting pixel data to grided data
BUGSrad

- Based on the radiation transfer code developed by Fu and Liou (1992).
- Gaseous absorption is calculated using the correlated k-distribution method in 6 shortwave and 12 longwave spectral intervals (Fu and Liou 1992).
- It uses a delta-two stream and adding methods to calculate the fluxes in the 18 spectral intervals.
- Uses ADT theory to calculate the optical properties of water and ice clouds (Stephens et al. 1990).