Comparison of May 1998, Total SW Down at The Surface Using GFDL and Collins/Rasch Aerosols
Clear sky Defined (Long/Ackerman CF <= 0.10, VIRS CF <= 0.05)
CERES/SARB UnTuned Calculations

**All Sky**

\[ X \text{ Mean} = 537.3 \]
\[ Y \text{ Mean} = 527.7 \]
\[ \text{Bias} = 9.6 \]
\[ \Delta \sigma = 6.8 \]
\[ N = 1100 \]

**Clear Sky**

\[ X \text{ Mean} = 782.6 \]
\[ Y \text{ Mean} = 764.5 \]
\[ \text{Bias} = 18.1 \]
\[ \Delta \sigma = 3.7 \]
\[ N = 115 \]
Downward SW Flux (W/m²) Error Clear Sky (VIRS Cld Frac = 0.0)

Error vs Cos(SZA)

May, Jul, Aug, 1998

Error (CAVE Obs – Fu & Liou)

Error Normalized To Cave Flux
Downward SW Flux (W/m²) Error Clear Sky (VIRS Cld Frac = 0.0) Error vs Initial Aerosol Optical Depth

May, Jul, Aug, 1998
Error (CAVE Obs − Fu & Liou)

May, Jul, Aug, 1998
Error Normalized To Cave Flux
Downward SW Flux (W/m²) Error Clear Sky (VIRS Cld Frac = 0.0)
Error vs Initial Precipitable Water

May, Jul, Aug, 1998
Error (CAVE Obs – Fu & Liou)

May, Jul, Aug, 1998
Error Normalized To Cave Flux
Downward SW Flux (W/m²) Error Clear Sky (VIRS Cld Frac = 0.0)

Error vs Distance From Surface Site

May, Jul, Aug, 1998
Error (CAVE Obs – Fu & Liou)

CAVE Dn SW – F&L Dn SW

Distance From Sfc Site (km)

Distance From Sfc Site (km)

(CAVE Dn SW – F&L Dn SW)/CAVE Dn SW

Error Normalized To Cave Flux

May, Jul, Aug, 1998

Distance From Sfc Site (km)
Downward SW Flux (W/m²) Error Clear Sky (VIRS Cld Frac = 0.0)
Error vs CAVE Obs Time minus CERES Obs Time

May, Jul, Aug, 1998
Error (CAVE Obs - Fu & Liou)

May, Jul, Aug, 1998
Error Normalized To Cave Flux