

Joint Atmosphere (MODATML2)

The Joint Atmosphere Product code (PGE83) is now updated with changes to include the addition of the following arrays:

Cloud_Effective_Radius_Difference
Cloud_Optical_Thickness_1621
Cloud_Effective_Radius_1621
Cloud_Optical_Thickness_Uncertainty
Cloud_Effective_Radius_Uncertainty
Cloud_Water_Path_Uncertainty
Cloud_Optical_Thickness_Uncertainty_1621
Cloud_Effective_Radius_Uncertainty_1621
Cloud_Water_Path_Uncertainty_1621

As well as the addition of a second byte as a new second dimension of the Cloud_Quality_Assurance SDS array, whereby this new byte contains, counting up from 0 in order from least to most significant bits:

- Bit 0: If MOD06 Cloud_Multi_Layer_Flag is greater than 0 and less than 10 exclusive, then 1 else 0. In other words, a 1 indicates multi-layer clouds were detected, a 0 indicates no multi-layer cloud detection.
- Bits 1-2: Bits 1 and 2 of MOD06 Cloud_Quality_Assurance_1km byte 3 (1.6-2.1um cloud optical thickness quality assurance bits).
- Bits 3-4: Bits 4 and 5 of MOD06 Cloud_Quality_Assurance_1km byte 3 (1.6-2.1um cloud effective particle radius quality assurance bits).
- Bits 5-7: Unused.

Further details and discrepancies with respect to previous versions can be found in the HISTORY.txt file of the baselined source code.