Appendix

Description of satellite data product levels, list taken from the NASA-DAAC parameter data product glossary at the search and order wep page (http://eosdata.gsfc.nasa.gov/data/).

Raw data: Data in their original packets, as received from the observer.

Level 0: Raw instrument data at original resolution, time ordered, with duplicate packets removed.

Level 1A: Reconstructed unprocessed instrument/payload data at full resolution; any and all communications artifacts (e.g. synchronization frames, communications headers) removed.

Level 1B: Level 1A data that have been processed to sensor units and radiometrically corrected and geolocated.

Level 2: Derived geophysical variables at the same resolution and location as the Level 1 source data.

Level 3: Variables mapped on uniform space-time grid scales, usually with some completeness and consistency.

Level 4: Model output or results from analyses of lower level data (i.e., variables derived from multiple measurements).

Units for integrated columnar water vapour

Columnar water vapour is measured in different units which are converted as follows:

y = ? * x	mm	cm	g/cm^2	kg/m^2
mm	1	10	10	1
cm	0.1	1	1	0.1
g/cm^2	0.1	1	1	0.1
kg/m^2	1	10	10	1