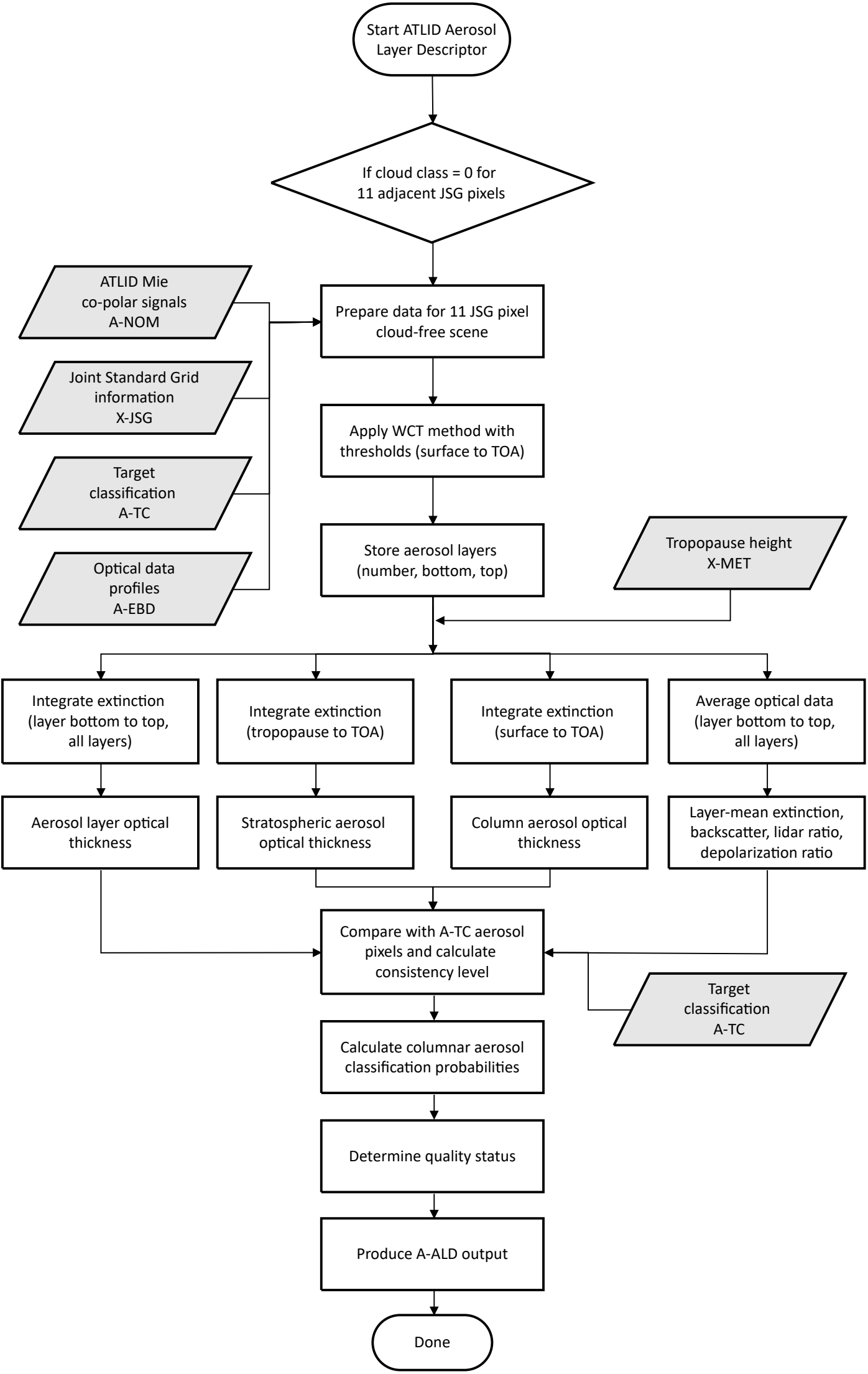
Start ATLID Aerosol Layer Descriptor
If cloud class = 0 for 11 adjacent JSG pixels
ATLID Mie co-polar signals A-NOM
Joint Standard Grid information X-JSG
Target classification A-TC
Optical data profiles A-EBD
Prepare data for 11 JSG pixel cloud-free scene
Apply WCT method with thresholds (surface to TOA)
Store aerosol layers (number, bottom, top)
Tropopause height X-MET
Integrate extinction (layer bottom to top, all layers)
Integrate extinction (tropopause to TOA)
Integrate extinction (surface to TOA)
Average optical data (layer bottom to top, all layers)
Aerosol layer optical thickness
Stratospheric aerosol optical thickness
Column aerosol optical thickness
Layer-mean extinction, backscatter, lidar ratio, depolarization ratio
Compare with A-TC aerosol pixels and calculate consistency level
Target classification A-TC
Calculate columnar aerosol classification probabilities
Determine quality status
Produce A-ALD output
Done