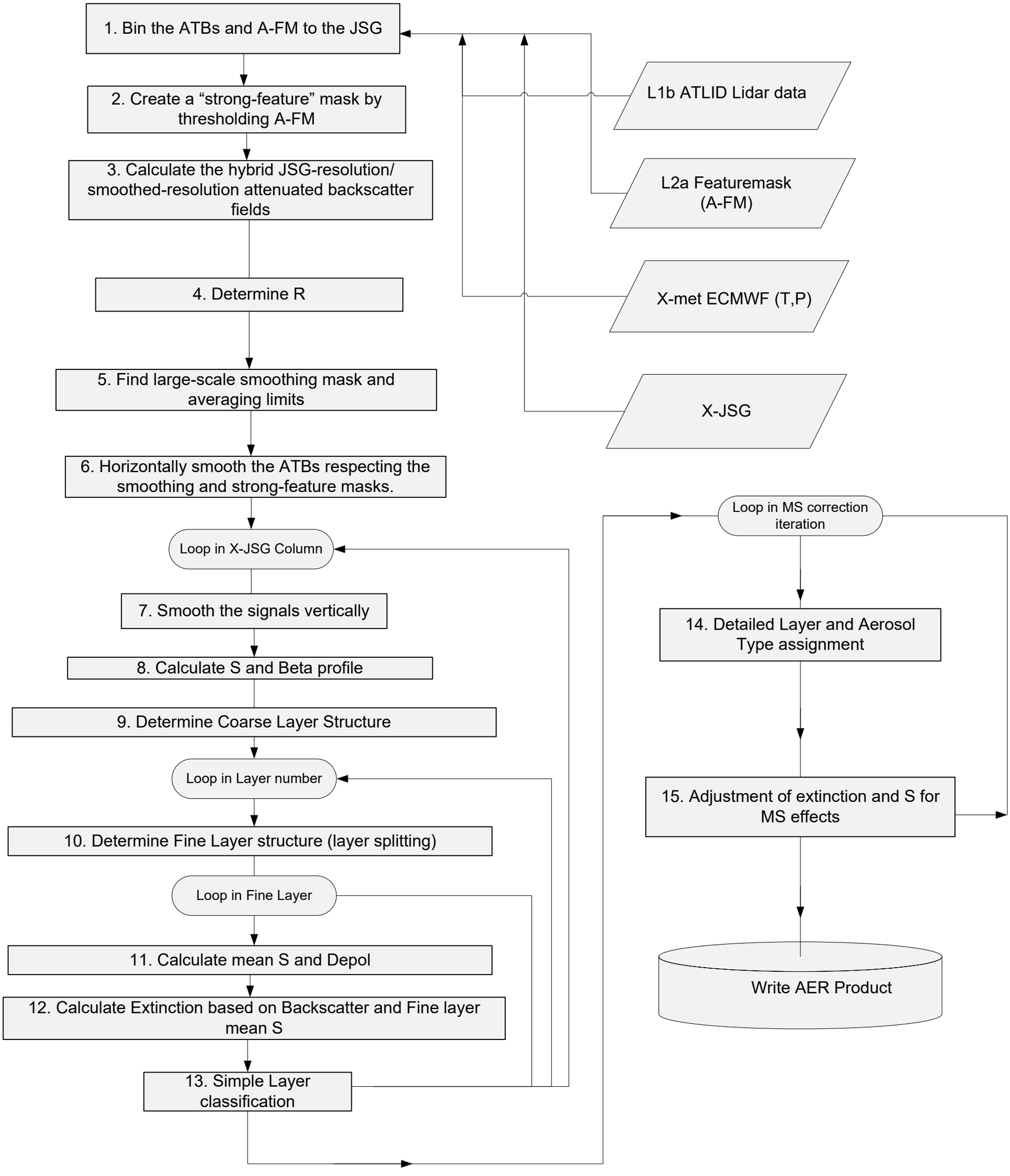
1. Bin the ATBs and A-FM to the JSG
2. Create a “strong-feature” mask by thresholding A-FM
3. Calculate the hybrid JSG-resolution/ smoothed-resolution attenuated backscatter fields
4. Determine R
5. Find large-scale smoothing mask and averaging limits
6. Horizontally smooth the ATBs respecting the smoothing and strong-feature masks.
Loop in X-JSG Column
7. Smooth the signals vertically
8. Calculate S and Beta profile
9. Determine Coarse Layer Structure
Loop in Layer number
10. Determine Fine Layer structure (layer splitting)
Loop in Fine Layer
11. Calculate mean S and Depol
12. Calculate Extinction based on Backscatter and Fine layer mean S
13. Simple Layer classification
L1b ATLID Lidar data
L2a Featuremask (A-FM)
X-met ECMWF (T,P)
X-JSG
Loop in MS correction iteration
14. Detailed Layer and Aerosol Type assignment
15. Adjustment of extinction and S for MS effects
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