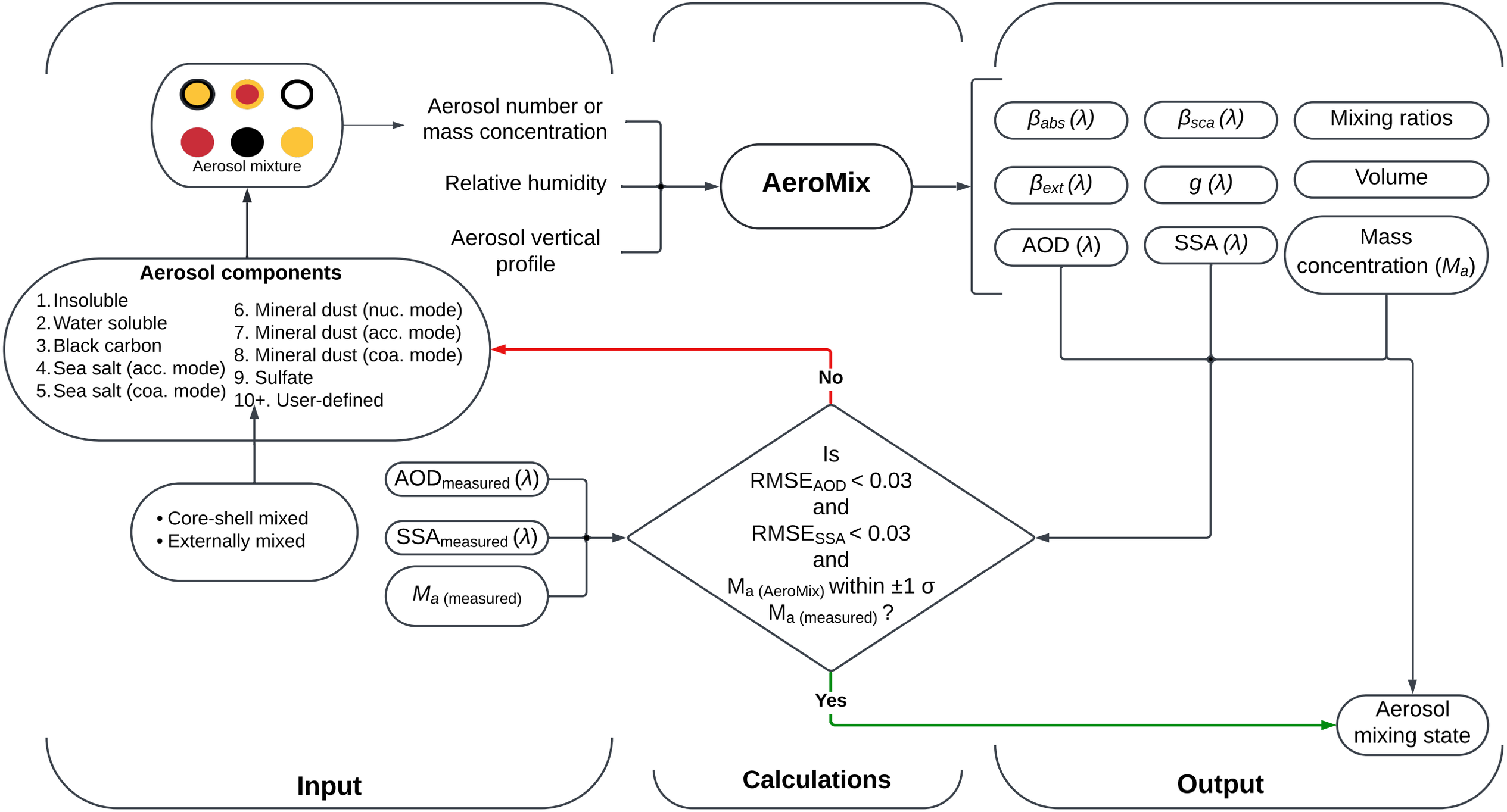
Aerosol mixture
Aerosol number or mass concentration
Relative humidity
Aerosol vertical profile
AeroMix
β_{abs} (λ)
β_{sca} (λ)
Mixing ratios
β_{ext} (λ)
g (λ)
Volume
AOD (λ)
SSA (λ)
Mass concentration (M_a)
Aerosol components
1. Insoluble
2. Water soluble
3. Black carbon
4. Sea salt (acc. mode)
5. Sea salt (coa. mode)
6. Mineral dust (nuc. mode)
7. Mineral dust (acc. mode)
8. Mineral dust (coa. mode)
9. Sulfate
10+. User-defined
• Core-shell mixed
• Externally mixed
$AOD_{measured}$ (λ)
$SSA_{measured}$ (λ)
M_a (measured)
No
Is $RMSE_{AOD} < 0.03$ and $RMSE_{SSA} < 0.03$ and $M_{a\ (AeroMix)}$ within ±1 σ $M_{a\ (measured)}$?
Yes
Aerosol mixing state
Input
Calculations
Output