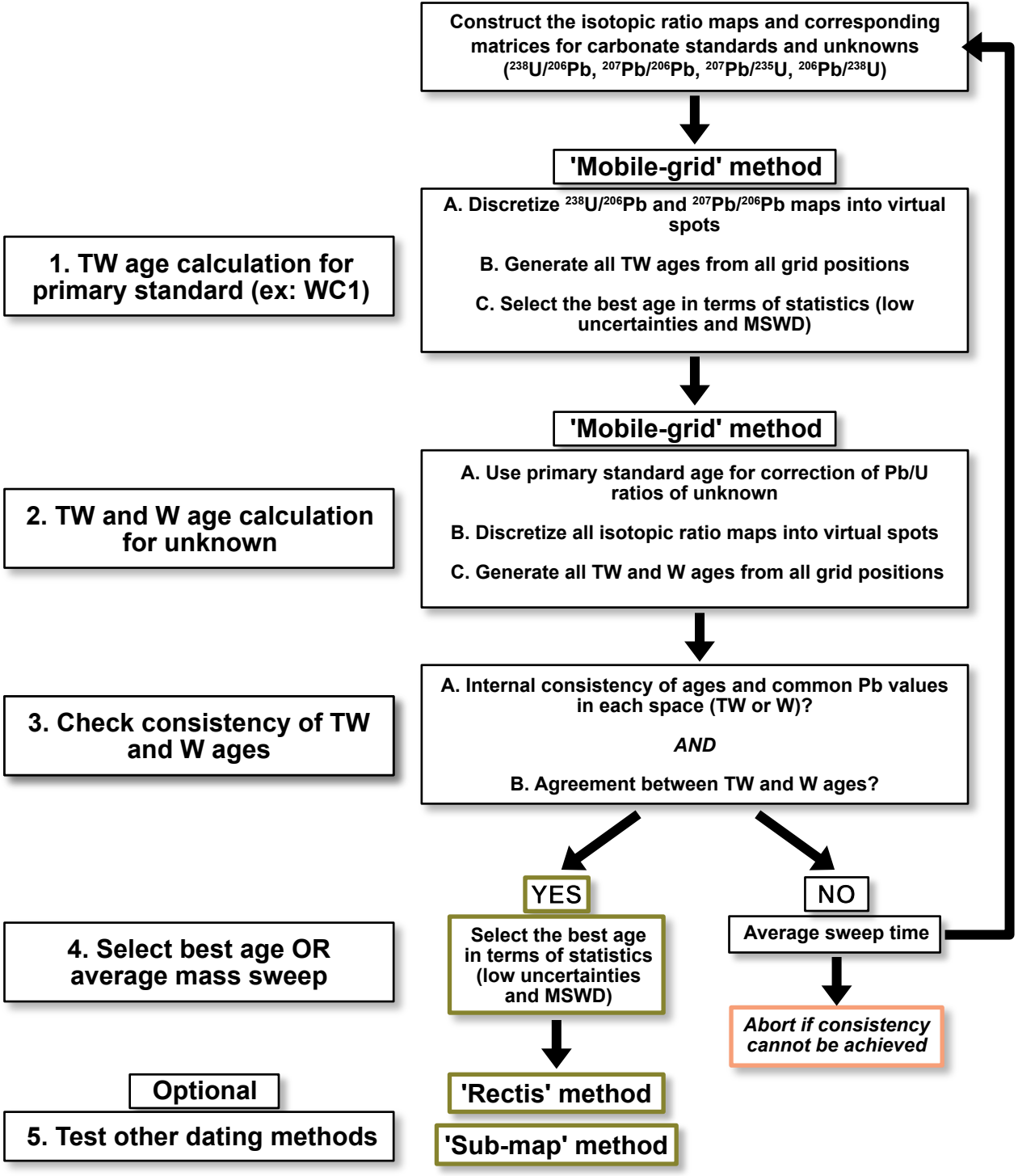
Construct the isotopic ratio maps and corresponding matrices for carbonate standards and unknowns ($^{238}U/^{206}Pb$, $^{207}Pb/^{206}Pb$, $^{207}Pb/^{235}U$, $^{206}Pb/^{238}U$)
'Mobile-grid' method
A. Discretize $^{238}U/^{206}Pb$ and $^{207}Pb/^{206}Pb$ maps into virtual spots
B. Generate all TW ages from all grid positions
C. Select the best age in terms of statistics (low uncertainties and MSWD)
1. TW age calculation for primary standard (ex: WC1)
'Mobile-grid' method
A. Use primary standard age for correction of Pb/U ratios of unknown
B. Discretize all isotopic ratio maps into virtual spots
C. Generate all TW and W ages from all grid positions
2. TW and W age calculation for unknown
A. Internal consistency of ages and common Pb values in each space (TW or W)?
AND
B. Agreement between TW and W ages?
3. Check consistency of TW and W ages
YES
Select the best age in terms of statistics (low uncertainties and MSWD)
NO
Average sweep time
Abort if consistency cannot be achieved
4. Select best age OR average mass sweep
Optional
'Rectis' method
'Sub-map' method
5. Test other dating methods