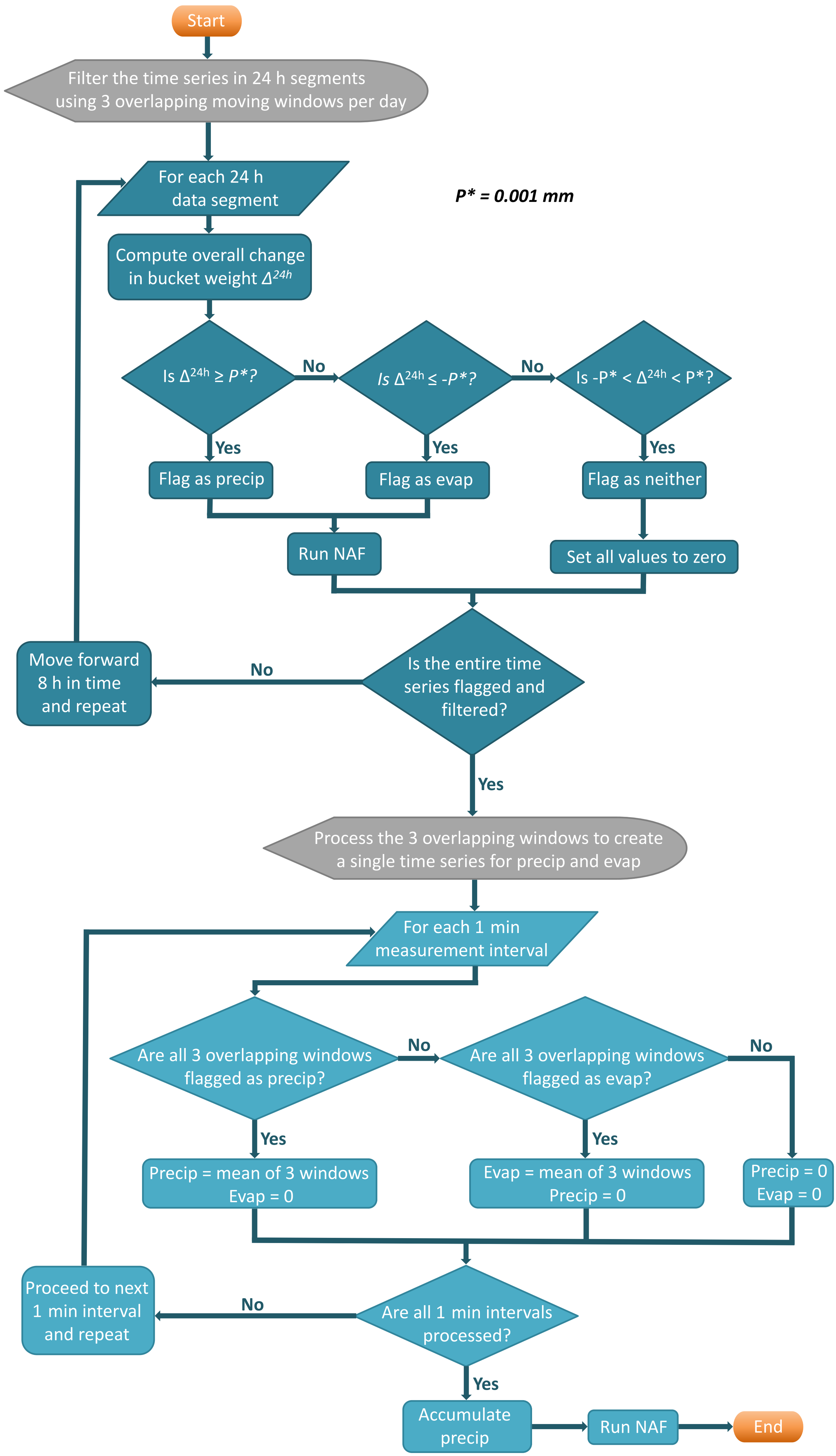
Start
Filter the time series in 24 h segments using 3 overlapping moving windows per day
For each 24 h data segment
P* = 0.001 mm
Compute overall change in bucket weight Δ24h
Is Δ24h ≥ P*?
No
Is Δ24h ≤ -P*?
No
Is -P* < Δ24h < P*?
Yes
Flag as precip
Yes
Flag as evap
Yes
Flag as neither
Run NAF
Set all values to zero
Move forward 8 h in time and repeat
No
Is the entire time series flagged and filtered?
Yes
Process the 3 overlapping windows to create a single time series for precip and evap
For each 1 min measurement interval
Are all 3 overlapping windows flagged as precip?
No
Are all 3 overlapping windows flagged as evap?
No
Yes
Precip = mean of 3 windows
Evap = 0
Yes
Evap = mean of 3 windows
Precip = 0
Precip = 0
Evap = 0
Proceed to next 1 min interval and repeat
No
Are all 1 min intervals processed?
Yes
Accumulate precip
Run NAF
End