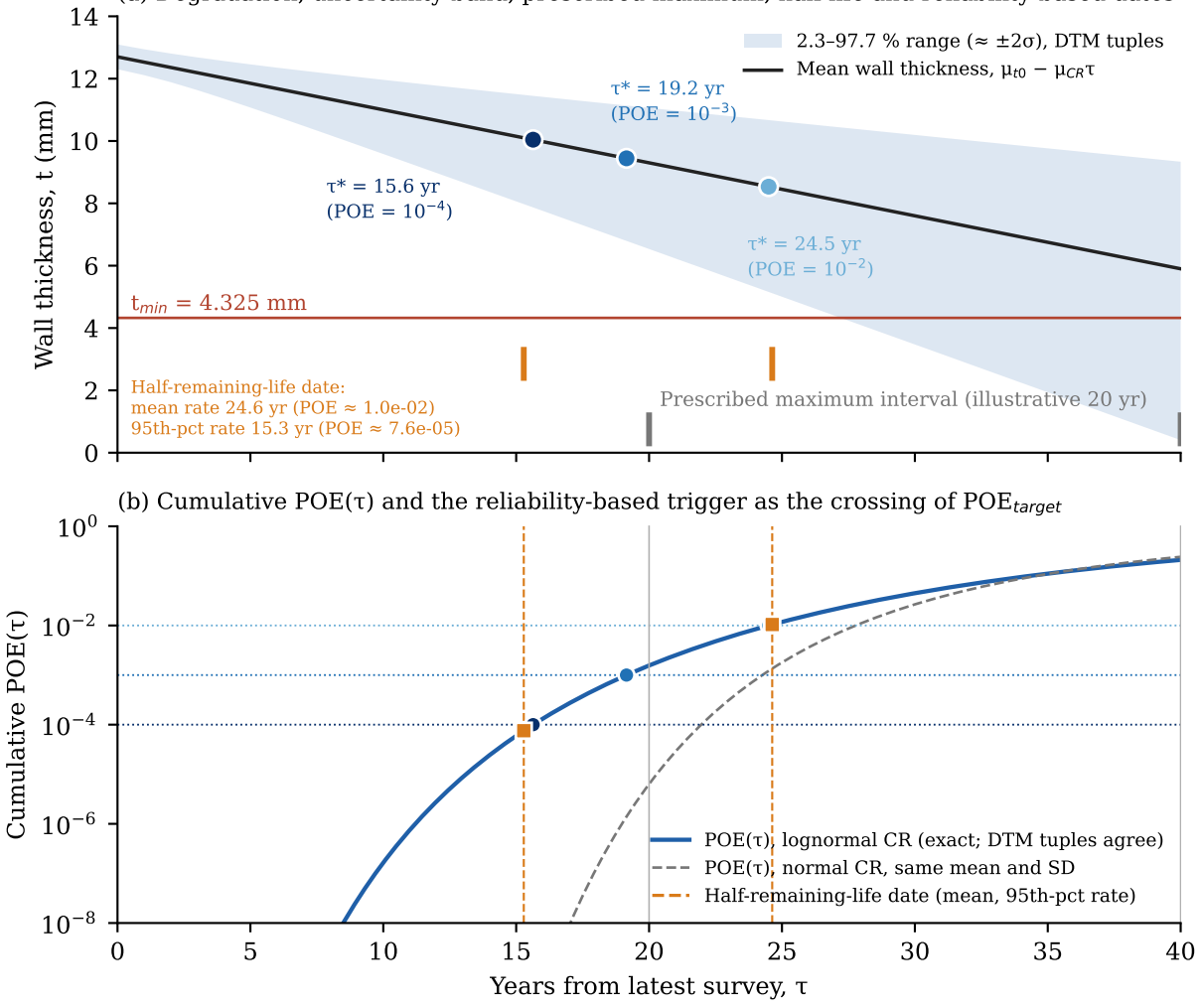
(a) Degradation, uncertainty band, prescribed maximum, half-life and reliability-based dates
2.3–97.7 % range (≈ ±2σ), DTM tuples
Mean wall thickness, μt0 − μCRτ
τ* = 19.2 yr
(POE = 10−3)
τ* = 15.6 yr
(POE = 10−4)
τ* = 24.5 yr
(POE = 10−2)
tmin = 4.325 mm
Half-remaining-life date:
mean rate 24.6 yr (POE ≈ 1.0e-02)
95th-pct rate 15.3 yr (POE ≈ 7.6e-05)
Prescribed maximum interval (illustrative 20 yr)
Wall thickness, t (mm)
(b) Cumulative POE(τ) and the reliability-based trigger as the crossing of POEtarget
POE(τ), lognormal CR (exact; DTM tuples agree)
POE(τ), normal CR, same mean and SD
Half-remaining-life date (mean, 95th-pct rate)
Cumulative POE(τ)
Years from latest survey, τ