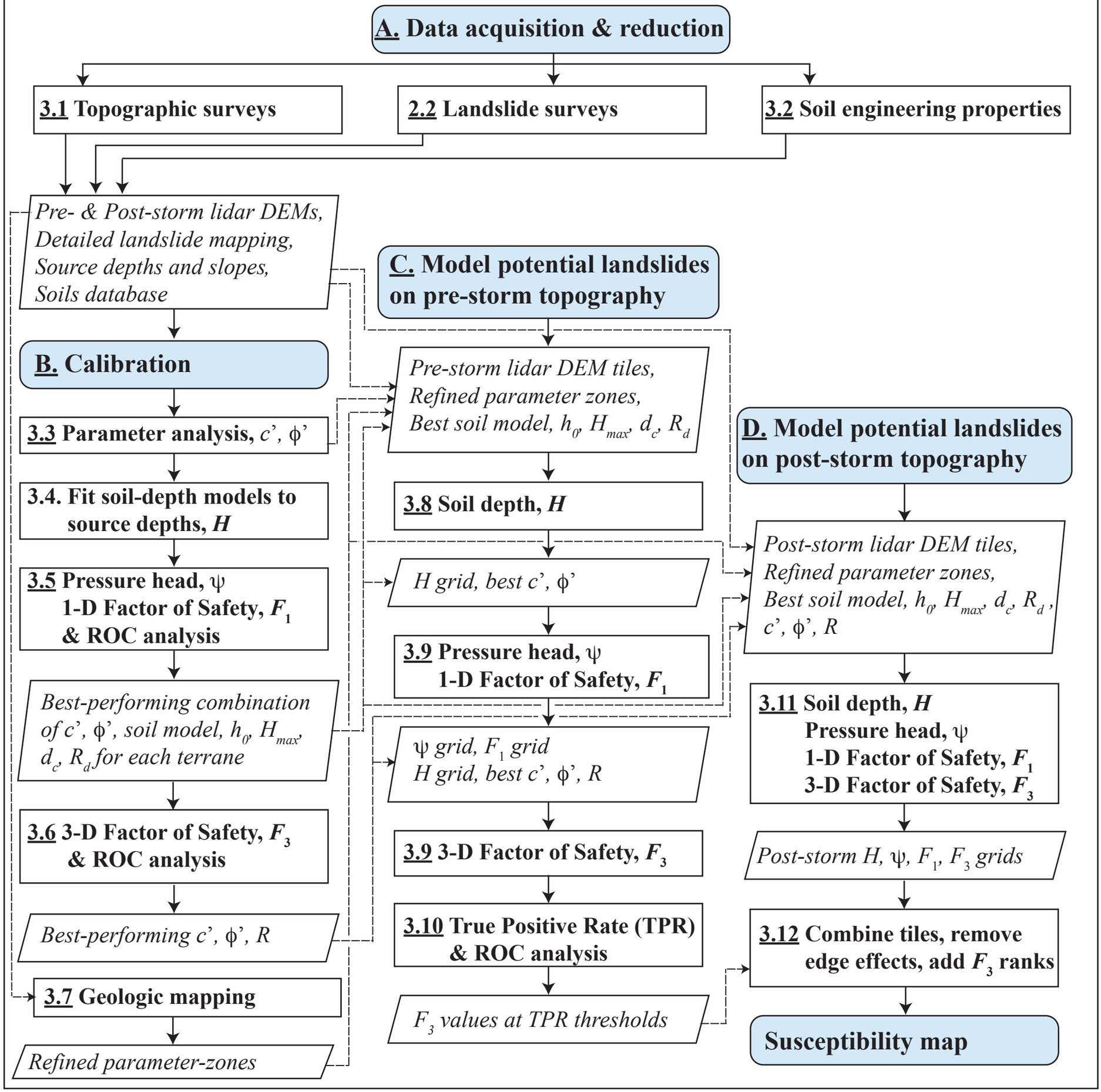
A. Data acquisition & reduction
3.1 Topographic surveys
2.2 Landslide surveys
3.2 Soil engineering properties
Pre- & Post-storm lidar DEMs, Detailed landslide mapping, Source depths and slopes, Soils database
B. Calibration
3.3 Parameter analysis, c', ϕ'
3.4. Fit soil-depth models to source depths, H
3.5 Pressure head, ψ 1-D Factor of Safety, F1 & ROC analysis
Best-performing combination of c', ϕ', soil model, h0, Hmax, dc, Rd for each terrane
3.6 3-D Factor of Safety, F3 & ROC analysis
Best-performing c', ϕ', R
3.7 Geologic mapping
Refined parameter-zones
C. Model potential landslides on pre-storm topography
Pre-storm lidar DEM tiles, Refined parameter zones, Best soil model, h0, Hmax, dc, Rd
3.8 Soil depth, H
H grid, best c', ϕ'
3.9 Pressure head, ψ 1-D Factor of Safety, F1
ψ grid, F1 grid H grid, best c', ϕ', R
3.9 3-D Factor of Safety, F3
3.10 True Positive Rate (TPR) & ROC analysis
F3 values at TPR thresholds
D. Model potential landslides on post-storm topography
Post-storm lidar DEM tiles, Refined parameter zones, Best soil model, h0, Hmax, dc, Rd, c', ϕ', R
3.11 Soil depth, H Pressure head, ψ 1-D Factor of Safety, F1 3-D Factor of Safety, F3
Post-storm H, ψ, F1, F3 grids
3.12 Combine tiles, remove edge effects, add F3 ranks
Susceptibility map