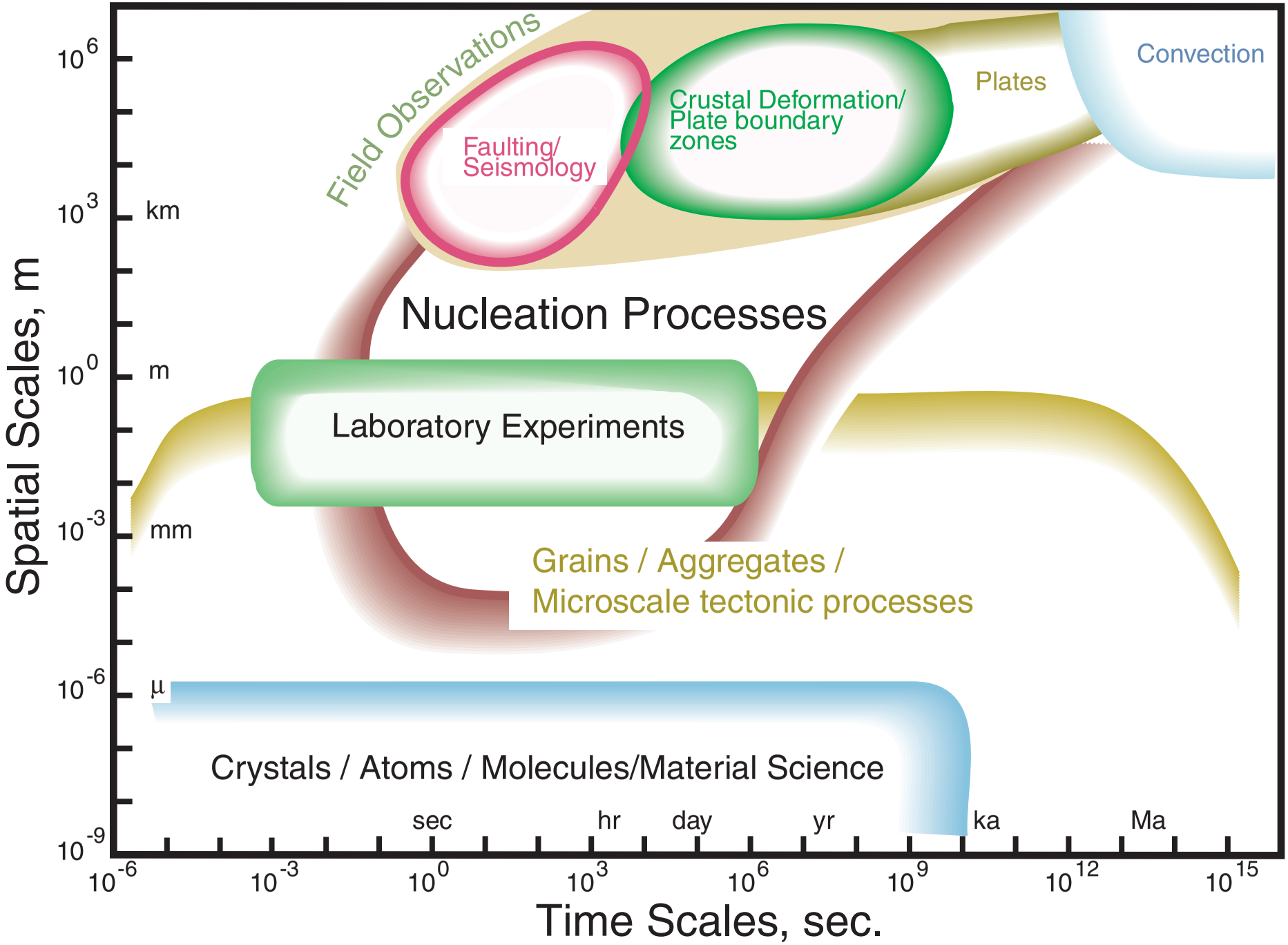
Field Observations
Faulting/
Seismology
Crustal Deformation/
Plate boundary
zones
Plates
Convection
Nucleation Processes
Laboratory Experiments
Grains / Aggregates /
Microscale tectonic processes
Crystals / Atoms / Molecules/Material Science
Spatial Scales, m
10^{6}
10^{3}
km
10^{0}
m
10^{-3}
mm
10^{-6}
μ
10^{-9}
sec
hr
day
yr
ka
Ma
10^{-6}
10^{-3}
10^{0}
10^{3}
10^{6}
10^{9}
10^{12}
10^{15}
Time Scales, sec.