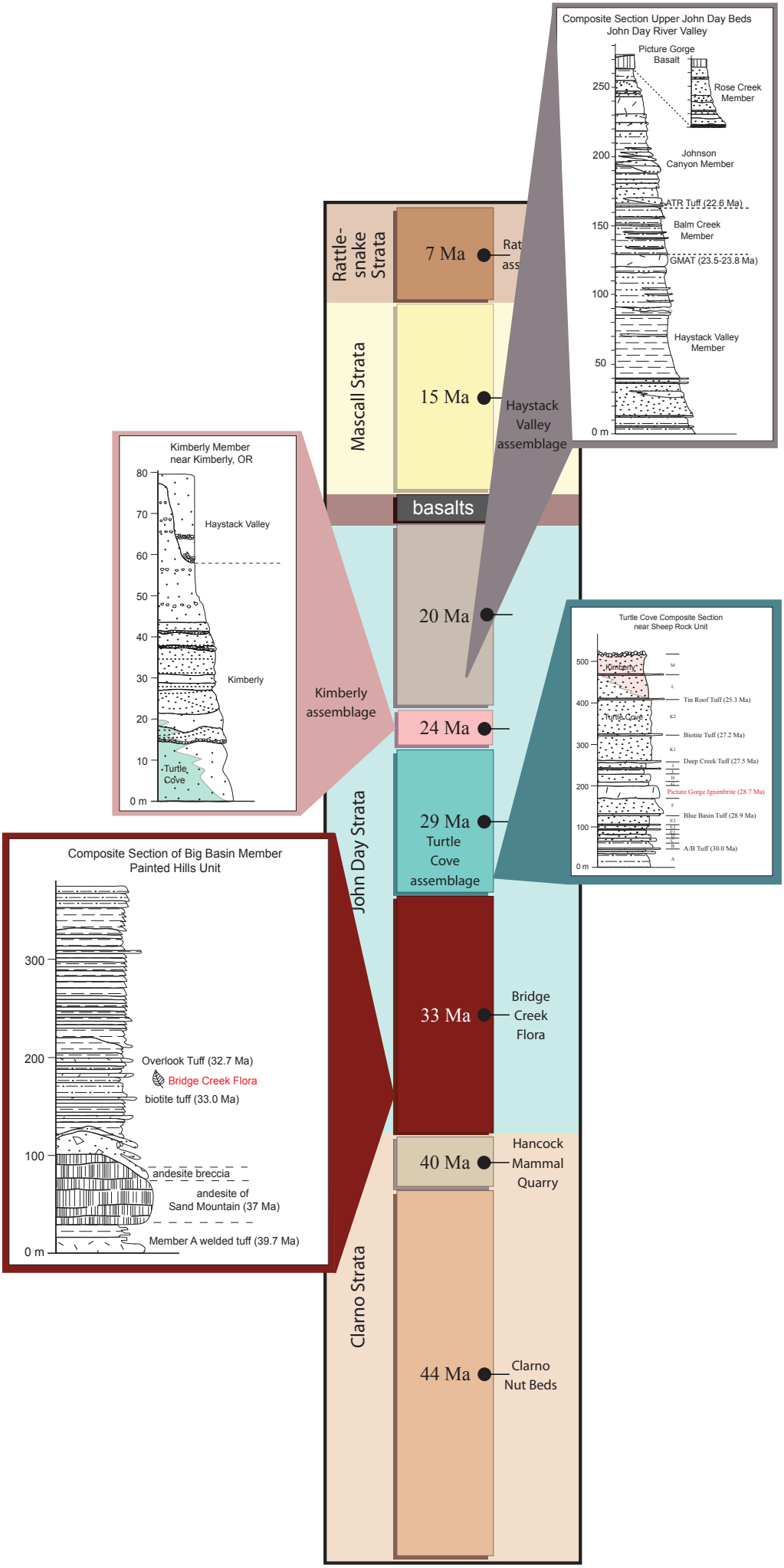
Composite Section Upper John Day Beds
John Day River Valley
Picture Gorge Basalt
Rose Creek Member
Johnson Canyon Member
ATR Tuff (22.6 Ma)
Balm Creek Member
GMAT (23.5-23.8 Ma)
Haystack Valley Member
250
200
150
100
50
0 m
Rattle-snake Strata
7 Ma
Mascall Strata
15 Ma
Haystack Valley assemblage
basalts
20 Ma
Kimberly Member
near Kimberly, OR
Haystack Valley
Kimberly
Turtle Cove
80
70
60
50
40
30
20
10
0 m
Kimberly assemblage
24 Ma
Turtle Cove Composite Section
near Sheep Rock Unit
Kimberly
Turtle Cove
Tin Roof Tuff (25.3 Ma)
Biotite Tuff (27.2 Ma)
Deep Creek Tuff (27.5 Ma)
Picture Gorge Ignimbrite (28.7 Ma)
Blue Basin Tuff (28.9 Ma)
A/B Tuff (30.0 Ma)
500
400
300
200
100
0 m
John Day Strata
29 Ma
Turtle Cove assemblage
Composite Section of Big Basin Member
Painted Hills Unit
Overlook Tuff (32.7 Ma)
Bridge Creek Flora
biotite tuff (33.0 Ma)
andesite breccia
andesite of Sand Mountain (37 Ma)
Member A welded tuff (39.7 Ma)
300
200
100
0 m
33 Ma
Bridge Creek Flora
40 Ma
Hancock Mammal Quarry
Clarno Strata
44 Ma
Clarno Nut Beds