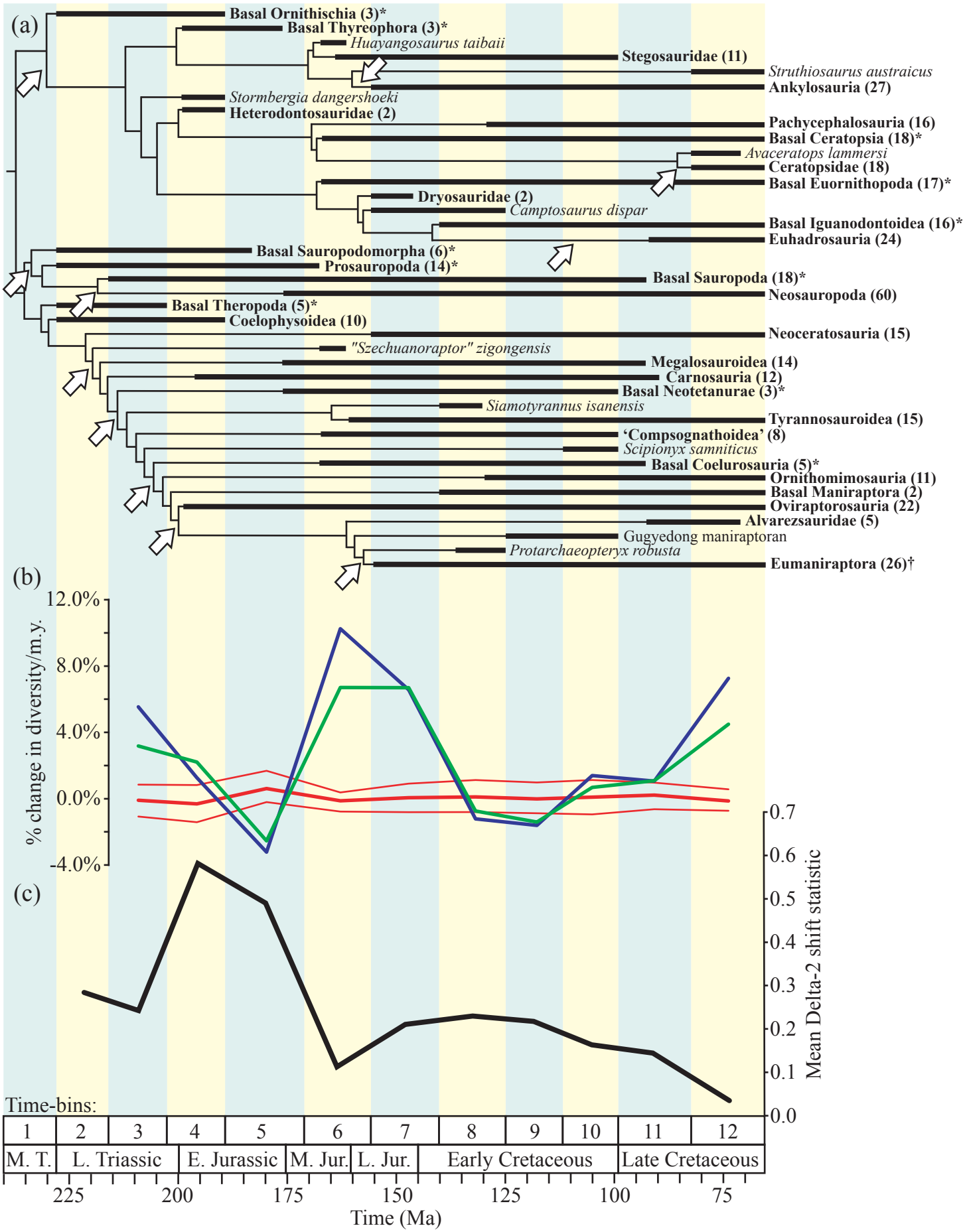
(a)
Basal Ornithischia (3)*
Basal Thyreophora (3)*
Huayangosaurus taibaii
Stegosauridae (11)
Struthiosaurus austraicus
Ankylosauria (27)
Stormbergia dangershoeki
Heterodontosauridae (2)
Pachycephalosauria (16)
Basal Ceratopsia (18)*
Avaceratops lammersi
Ceratopsidae (18)
Basal Euornithopoda (17)*
Dryosauridae (2)
Camptosaurus dispar
Basal Iguanodontoidea (16)*
Euhadrosauria (24)
Basal Sauropodomorpha (6)*
Prosauropoda (14)*
Basal Sauropoda (18)*
Neosauropoda (60)
Basal Theropoda (5)*
Coelophysoidea (10)
Neoceratosauria (15)
"Szechuanoraptor" zigongensis
Megalosauroidea (14)
Carnosauria (12)
Basal Neotetanurae (3)*
Siamotyrannus isanensis
Tyrannosauroidea (15)
'Compsognathoidea' (8)
Scipionyx samniticus
Basal Coelurosauria (5)*
Ornithomimosauria (11)
Basal Maniraptora (2)
Oviraptorosauria (22)
Alvarezsauridae (5)
Gugyedong maniraptoran
Protarchaeopteryx robusta
Eumaniraptora (26)†
(b)
12.0%
8.0%
4.0%
0.0%
-4.0%
% change in diversity/m.y.
(c)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Mean Delta-2 shift statistic
Time-bins:
1 2 3 4 5 6 7 8 9 10 11 12
M. T. L. Triassic E. Jurassic M. Jur. L. Jur. Early Cretaceous Late Cretaceous
225 200 175 150 125 100 75
Time (Ma)