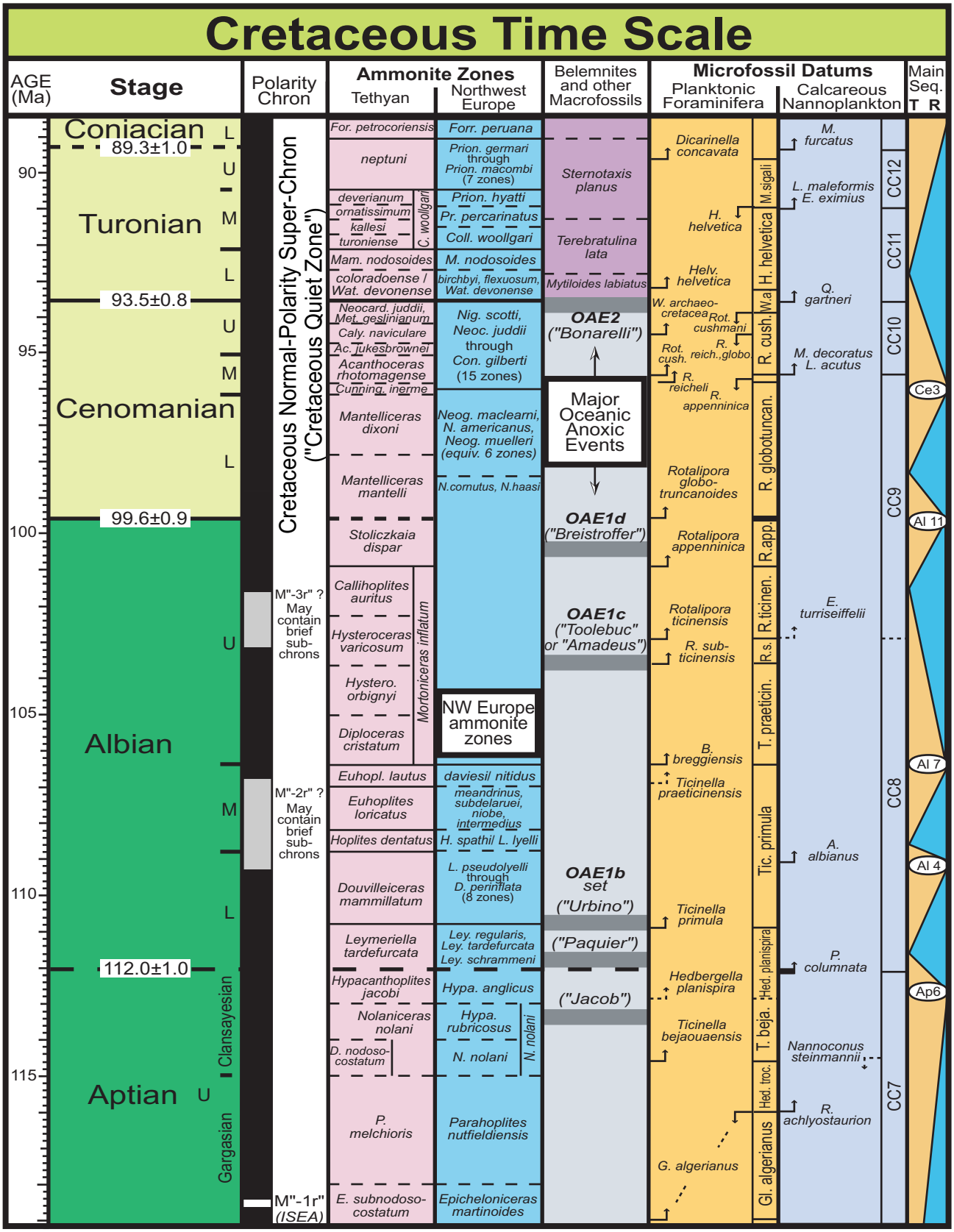
Cretaceous Time Scale
AGE (Ma)
Stage
Polarity Chron
Ammonite Zones
Tethyan
Northwest Europe
Belemnites and other Macrofossils
Microfossil Datums
Planktonic Foraminifera
Calcareous Nannoplankton
Main Seq.
T R
Coniacian
89.3±1.0
Turonian
93.5±0.8
Cenomanian
99.6±0.9
Albian
112.0±1.0
Aptian
Clansayesian
Gargasian
Cretaceous Normal-Polarity Super-Chron ("Cretaceous Quiet Zone")
M"-3r" ? May contain brief sub-chrons
M"-2r" ? May contain brief sub-chrons
M"-1r" (ISEA)
For. petrocoriensis
neptuni
deverianum
ornatissimum
kallesi
turoniense
C. woollgari
Mam. nodosoides
coloradoense / Wat. devonense
Neocard. juddii, Met. geslinianum
Caly. naviculare
Ac. jukesbrownei
Acanthoceras rhotomagense
Cunning. inerme
Mantelliceras dixoni
Mantelliceras mantelli
Stoliczkaia dispar
Callihoplites auritus
Hysteroceras varicosum
Hystero. orbignyi
Diploceras cristatum
Mortoniceras inflatum
Euhopl. lautus
Euhoplites loricatus
Hoplites dentatus
Douvilleiceras mammillatum
Leymeriella tardefurcata
Hypacanthoplites jacobi
Nolaniceras nolani
D. nodoso-costatum
P. melchioris
E. subnodoso-costatum
Forr. peruana
Prion. germari through Prion. macombi (7 zones)
Prion. hyatti
Pr. percarinatus
Coll. woollgari
M. nodosoides
birchbyi, flexuosum, Wat. devonense
Nig. scotti, Neoc. juddii through Con. gilberti (15 zones)
Neog. maclearni, N. americanus, Neog. muelleri (equiv. 6 zones)
N.comutus, N.haasi
NW Europe ammonite zones
daviesi/ nitidus
meandrinus, subdelaruei, niobe, intermedius
H. spathi/ L. lyelli
L. pseudolyelli through D. perinflata (8 zones)
Ley. regularis, Ley. tardefurcata
Ley. schrammeni
Hypa. anglicus
Hypa. rubricosus
N. nolani
N. nolani
Parahoplites nutfieldiensis
Epicheloniceras martinoides
Sternotaxis planus
Terebratulina lata
Mytiloides labiatus
OAE2 ("Bonarelli")
Major Oceanic Anoxic Events
OAE1d ("Breistroffer")
OAE1c ("Toolebuc" or "Amadeus")
OAE1b set ("Urbino")
("Paquier")
("Jacob")
Dicarinella concavata
H. helvetica
Helv. helvetica
W. archaeo-cretacea
Rot. cushmani
Rot. cush.
R. reich.,globo
R. reicheli
R. appenninica
Rotalipora globo-truncanoides
Rotalipora appenninica
Rotalipora ticinensis
R. sub-ticinensis
B. breggiensis
Ticinella praeticinensis
Ticinella primula
Hedbergella planispira
Ticinella bejaouaensis
G. algerianus
M.sigali
H. helvetica
W.a
R. cush.
R. globotuncan.
R.app.
R.ticinen.
R.s.
T. praeticin.
Tic. primula
Hed. planispira
T. beja.
Hed. troc.
Gl. algerianus
M. furcatus
L. maleformis
E. eximius
Q. gartneri
M. decoratus
L. acutus
E. turriseiffelii
A. albianus
P. columnata
Nannoconus steinmannii
R. achlyostaurion
CC12
CC11
CC10
CC9
CC8
CC7
Ce3
Al 11
Al 7
Al 4
Ap6