

Phanerozoic Zonations of Russian Basins Based on Chart series by T. Koren' et al., 2006

Russian names have been transliterated or translated; and the period-by-period chart sets merged into Cenoz., Mesoz., Lt. Paleoz., and E. Paleoz. Super-directories

Ages have been recalibrated to the GTS2020 age model (Feb2021)

Column

REFERENCES on Columns (see Koren' et al. 2006 for full reference)

Russian Cenozoic

International and Russian Standards (Cenozoic)

Cenozoic Microfossil Standards (as shown on Russian chart)

- Planktonic Foraminifers (Tethyan; Cenoz.)
 - Planktonic Foram zone (Tethyan; Cenoz.)
 - Planktonic Foram subzone
 - Planktonic Foram zone name (Tethyan; Cenoz.)
 - Planktonic Foram subzone name (Tethyan; Cenoz.)
- Calcareous Nannofossils (Cenozoic)
 - Martini nanno zone
 - Martini nanno zone name
 - Bukry nanno zone (Paleogene)
 - Bukry nanno subzone
 - Bukry nanno zone name
 - Bukry nanno subzone name

Diatoms (Neogene) -- North Pacific

- Diatom zone (N.Pacific)
- Diatom subzone (N.Pacific)
- Diatom datum

Russian Paleogene -- Standard Biostratigraphic Zones

- Planktonic Foraminifers (Russian Paleogene)
 - Planktonic Foram zones (Russian Paleogene)
 - Planktonic Foram subzones (Russian Paleogene)
- Benthic Foraminifers (Russian Paleogene)
 - Benthic Foram zones (Russian Paleogene)
 - Benthic Foram subzones (Russian Paleogene)
- Calcareous Nannofossils (Russian Paleogene)
 - Nanno zones (Russian Paleogene)
 - Nanno subzones (Russian Paleogene)
- Dinocysts (Russian Paleogene)
 - Dino zones (Russian Paleogene)
 - Dino subzones (Russian Paleogene)
- Radiolarians (Russian Paleogene)
 - Radiolarian zones (Russian Paleogene)
- Diatoms (Russian Paleogene)
 - Diatom zones (Russian Paleogene)
 - Diatom subzones (Russian Paleogene)
- Silicoflagellates (Russian Paleogene)
 - Silicoflagellate zones (Russian Paleogene)
- Spores and Pollen (Russian Paleogene)
 - Spore-Pollen zones (Russian Paleogene)
 - Spore-Pollen subzones (Russian Paleogene)

Central Russia -- Biostratigraphic zones (Paleogene)

- Planktonic Foraminifers (Central Russia; Paleogene)
 - Planktonic Foram zone (Central Russia; Paleog.)
 - Planktonic Foram subzone (Central Russia; Paleog.)
- Calcareous Nannofossils (Central Russia; Paleogene)
 - Nanno zone (Central Russia; Paleog.)
 - Nanno subzone (Central Russia; Paleog.)

European and SW Russia (Cenoz.)

North Caucasus and Precaucasus (Cenozoic)

- N. Caucasus stages
 - Suite (N. Caucasus)
 - Superstage (N. Caucasus)
 - Regional stage (N. Caucasus)
 - Substage (N. Caucasus)
 - Layer (N. Caucasus)
- Mollusks (N. Caucasus; Neogene)
 - Mollusks in West part (N. Caucasus)
 - Mollusks in Central part (N. Caucasus)
 - Mollusks in East part (N. Caucasus)
- Planktonic Foraminifers (N. Caucasus; Paleogene)
 - Planktonic Foram zone (N. Caucasus)
 - Planktonic Foram subzone (N. Caucasus)
- Benthic foraminifers (N. Caucasus)
 - Benthic foraminifer zones (N. Caucasus)
 - Benthic Foram subzone (N. Caucasus; Paleogene)

Mainly from Gradstein et al., eds., 2004

*Bolli, Sanders, 1985; Krashennnikov et al., 1999; Berggren, Miller, 1988; Berggren et al., 1995
Bolli, Sanders, 1985; Krashennnikov et al., 1999; Berggren, Miller, 1988; Berggren et al., 1995
Bolli, Sanders, 1985; Krashennnikov et al., 1999; Berggren, Miller, 1988; Berggren et al., 1995
Bolli, Sanders, 1985; Krashennnikov et al., 1999; Berggren, Miller, 1988; Berggren et al., 1995
Bolli, Sanders, 1985; Krashennnikov et al., 1999; Berggren, Miller, 1988; Berggren et al., 1995*

Martini, 1971; Berggren et al., 1995

Martini, 1971; Berggren et al., 1995

Bukry, 1973, 1975

Bukry, 1973, 1975

Bukry, 1973, 1975

Bukry, 1973, 1975

Barron, Gladenkov, 1995; Gladenkov, Barron, 1995; Gladenkov, 1998

Barron, Gladenkov, 1995; Gladenkov, Barron, 1995; Gladenkov, 1998

Barron, Gladenkov, 1995; Gladenkov, Barron, 1995; Gladenkov, 1998

Barron, Gladenkov, 1995; Gladenkov, Barron, 1995; Gladenkov, 1998

Resolutions MCK ... 1989, 2002 (with modifications)

Resolutions MCK ... 1989, 2002 (with modifications)

Resolutions MCK ... 1989, 2002 (with modifications)

E. M. Bugrova, 2005

E. M. Bugrova, 2005

E. M. Bugrova, 2005

Resolutions MCK ... 1989, 2002 (with modifications)

Resolutions MCK ... 1989, 2002 (with modifications)

Resolutions MCK ... 1989, 2002 (with modifications)

Andreyeva - Grigorovich, 1991; Zaporozhete, 1999; Alexandrova, 2001

Andreyeva - Grigorovich, 1991; Zaporozhete, 1999; Alexandrova, 2001

Andreyeva - Grigorovich, 1991; Zaporozhete, 1999; Alexandrova, 2001

Kozlova, 1999, 2003, 2004***

Kozlova, 1999, 2003, 2004***

Z. I. Glezer, 2005

Z. I. Glezer, 2005

Z. I. Glezer, 2005

Z. I. Glezer, 2005

Z. I. Glezer, 2005

*Panova, Zaporozhets, 2003**

*Panova, Zaporozhets, 2003**

*Panova, Zaporozhets, 2003**

Decisions MCK ..., 1989, 2002

Decisions MCK ..., 1989, 2002

Decisions MCK ..., 1989, 2002

Decisions MCK ..., 1989, 2002

Decisions MCK ..., 1989, 2002

Decisions MCK ..., 1989, 2002

Decisions MCK ..., 1989, 2002

Layer (N. Caucasus)

S.V. popv, L.A. nevenskian, I. A. Goncharova, 2005

S.V. popv, L.A. nevenskian, I. A. Goncharova, 2005

S.V. popv, L.A. nevenskian, I. A. Goncharova, 2005

S.V. popv, L.A. nevenskian, I. A. Goncharova, 2005

Shchutskian, 1970; Krashennnikov, 1975; E. M. Bugrova, 2005

Shchutskian, 1970; Krashennnikov, 1975; E. M. Bugrova, 2005

Shchutskian, 1970; Krashennnikov, 1975; E. M. Bugrova, 2005

NEOGENE = Pinchuk, 1998; Practical guidance..., 2005; PALEOGENE = Ter - Grigoryants, 1977; E.

M. Bugrova, 2005

NEOGENE = Pinchuk, 1998; Practical guidance..., 2005; PALEOGENE = Ter - Grigoryants, 1977; E.

M. Bugrova, 2005

Ter - Grigoryants, 1977; E. M. Bugrova, 2005

Large Foraminifers (N. Caucasus; Paleogene)	<i>E. U. Zakrevskian, 2005</i>
Large foram zone (Caucasus)	<i>E. U. Zakrevskian, 2005</i>
Calcareous Nannofossils (N. Caucasus; Paleogene)	<i>Muzylev, 1980; Shcherbinina, 2003*; I. P. Tabachnikova, 2005</i>
Nanno zone (Caucasus)	<i>Muzylev, 1980; Shcherbinina, 2003*; I. P. Tabachnikova, 2005</i>
Nanno subzone (Caucasus)	<i>Muzylev, 1980; Shcherbinina, 2003*; I. P. Tabachnikova, 2005</i>
Ostracods (N. Caucasus)	<i>NEOGENE = L. V. Buryndina, E.A. Bondar, 2005; PALEOGENE = I. A. Nikolayeva, 2005</i>
Black sea basin (Neogene)	<i>L. V. Buryndina, E.A. Bondar, 2005</i>
Caspian sea basin (Neogene)	<i>L. V. Buryndina, E.A. Bondar, 2005</i>
Ostracod zone (N. Caucasus; Paleogene)	<i>I. A. Nikolayeva, 2005</i>
Ostracod subzone (N. Caucasus; Paleogene)	<i>I. A. Nikolayeva, 2005</i>
Dinocysts (N. Caucasus; Paleogene)	<i>Andreyeva - Grigorovich, 1991; Zaporozheth, 1999</i>
Dinocyst zone (Caucasus)	<i>Andreyeva - Grigorovich, 1991; Zaporozheth, 1999</i>
Dinocyst subzone (Caucasus)	<i>Andreyeva - Grigorovich, 1991; Zaporozheth, 1999</i>
Spores and Pollen (N. Caucasus; Paleogene)	<i>Panova, 1991; Panova, Zaporozheth, 2003*</i>
Spore-Pollen zone (Caucasus)	<i>Panova, 1991; Panova, Zaporozheth, 2003*</i>
Spore-Pollen subzone (Caucasus)	<i>Panova, 1991; Panova, Zaporozheth, 2003*</i>
Don basin (SE part; Paleogene)	
Don Basin Stage [Horizon]	
Don Stage [Horizon]	
Planktonic Foraminifers (Don)	<i>E.M. Bugrova, 2005</i>
Planktonic Foram zone (Don)	<i>E.M. Bugrova, 2005</i>
Benthic Foraminifers (Don)	<i>Nikitina, 1972; E.M. Bugrova, 2005</i>
Benthic Foram zone (Don)	<i>Nikitina, 1972; E.M. Bugrova, 2005</i>
Benthic Foram subzone (Don)	<i>Nikitina, 1972; E.M. Bugrova, 2005</i>
Calcareous Nannofossils (Don)	<i>I.P. Tabachnikova, 2005</i>
Nanno zone (Don)	<i>I.P. Tabachnikova, 2005</i>
Radiolarians (Don)	<i>Kozlova, 2003; OSTRACOD -- I.A. Nikolayeva, 2005</i>
Radiolarian zone (Don)	<i>Kozlova, 2003; OSTRACOD -- I.A. Nikolayeva, 2005</i>
Diatoms (Don)	<i>Radionova, 2003</i>
Diatom zone (Don)	<i>Radionova, 2003</i>
Dinocysts (Don)	<i>Zaporozhets, 2001, 2003*</i>
Dinocyst zone (Don)	<i>Zaporozhets, 2001, 2003*</i>
Spores and Pollen (Don)	<i>Zaporozhets, 2003*</i>
Spore-Pollen zone (Don)	<i>Zaporozhets, 2003*</i>
North Caspian basin (Paleogene) -- (I) Northwest of Pre-Caspian lowland, (II) Lower Volga, (III) Upper Volga (III) [NEED TRANSLATION]	
Caspian-Volga Stages [Horizon]	
Caspian Stage [Horizon]	
Lower Volga Stage [Horizon]	
Upper Volga Stage [Horizon]	
Planktonic Foraminifers (Caspian-Volga)	<i>Shutskian, 1960; E.M. Bugrova, 2005</i>
Planktonic foram zones (Caspian-Volga)	<i>Shutskian, 1960; E.M. Bugrova, 2005</i>
Benthic Foraminifers (Caspian-Volga)	<i>E.M. Bugrova, 2005</i>
Benthic foram zones (Caspian-Volga)	<i>E.M. Bugrova, 2005</i>
Benthic foram subzones (Caspian-Volga)	<i>E.M. Bugrova, 2005</i>
Large Foraminifers (Caspian-Volga)	<i>E. Yu. Zakrevskian, 2005; OSTRACODS: Nicolayeva, 2005</i>
Large Foraminifer zones (Caspian-Volga)	<i>E. Yu. Zakrevskian, 2005; OSTRACODS: Nicolayeva, 2005</i>
Calcareous Nannoplankton (Caspian-Volga)	<i>I.P. Tabachnikova, 2005</i>
Nanno zones (Caspian-Volga)	<i>I.P. Tabachnikova, 2005</i>
Dinocysts (Caspian-Volga)	<i>Zaporozhets, 1998b; Alexandrova, 2001</i>
Dinocyst zones (Caspian-Volga)	<i>Zaporozhets, 1998b; Alexandrova, 2001</i>
Dinocyst additional zones (Caspian-Volga)	<i>Zaporozhets, 1998b; Alexandrova, 2001</i>
Radiolarians (Caspian-Volga)	<i>Kozlova, 1999, 2003*, 2004**</i>
Radiolarian zones (Caspian-Volga)	<i>Kozlova, 1999, 2003*, 2004**</i>
Diatoms (Caspian-Volga)	<i>Z.I. Glezer, 2005</i>
Diatom zones (Caspian-Volga)	<i>Z.I. Glezer, 2005</i>
Diatom subzones (Caspian-Volga)	<i>Z.I. Glezer, 2005</i>
Silicoflagellates (Caspian-Volga)	<i>Z.I. Glezer, 2005</i>
Silicoflagellate zones (Caspian-Volga)	<i>Z.I. Glezer, 2005</i>
Spores and Pollen (Caspian-Volga)	<i>Zaporozhets, 2003*</i>
Spore-Pollen zones (Caspian-Volga)	<i>Zaporozhets, 2003*</i>
East-European Platform (EEP; Central part -- Voronezh anticline) (Paleogene)	
EEP Regional units (Paleogene)	
EEP Series (Paleogene)	
EEP Stage [Horizon] (Paleogene)	
EEP Substage [SubHorizon] (Paleogene)	
Planktonic Foraminifers (EEP; Paleogene)	<i>E.M. Bugrova, 2005</i>
Planktonic foram zones (EEP; Paleogene)	<i>E.M. Bugrova, 2005</i>
Benthic Foraminifers (EEP; Paleogene)	<i>E.M. Bugrova, 2005</i>
Benthic foram zones (EEP; Paleogene)	<i>E.M. Bugrova, 2005</i>
Calcareous Nannofossils (EEP; Paleogene)	<i>I.P. Tabachnikova, 2005</i>
Nanno zones (EEP; Paleogene)	<i>I.P. Tabachnikova, 2005</i>
Dinocysts (EEP; Paleogene)	<i>Zaporozhets, 2001</i>
Dinocyst zones (EEP; Paleogene)	<i>Zaporozhets, 2001</i>
Radiolarians (EEP; Paleogene)	<i>Kozlova, 1999, 2003*, 2004**</i>
Radiolarian (EEP; Paleogene)	<i>Kozlova, 1999, 2003*, 2004**</i>
Diatoms (EEP; Paleogene)	<i>Z.I. Glezer, 2005</i>

Diatom zones (EEP; Paleogene)	Z.I. Glezer, 2005
Diatom subzones (EEP; Paleogene)	Z.I. Glezer, 2005
Silicoflagellates (EEP; Paleogene)	Z.I. Glezer, 2005
Silicoflagellate zones (EEP; Paleogene)	Z.I. Glezer, 2005
Spores and Pollen (EEP; Paleogene)	Saporozhets, 2003*
Spore-Pollen zones (EEP; Paleogene)	Saporozhets, 2003*
Spore-Pollen subzones (EEP; Paleogene)	Saporozhets, 2003*
Siberian Basin and Platform (Paleogene)	
West Siberian Plain (Paleogene)	
Siberian Regional units (Paleogene)	
Siberian Stage [Horizon] (Paleogene)	
Siberian Substage [Subhorizon] (Paleogene)	
Dinocysts (Siberia; Paleogene)	Kulkova, Vasilieva, Iakovleva et al. 2001; Iakovleva, Kulkova, 2003
Dinocyst zones (Siberia; Paleogene)	Kulkova, Vasilieva, Iakovleva et al. 2001; Iakovleva, Kulkova, 2003
Radiolarians (Siberia; Paleogene)	Kozlova, 1999, 2001***
Radiolarian zones (Siberia; Paleogene)	Kozlova, 1999, 2001***
Radiolarian subzones (Siberia; Paleogene)	Kozlova, 1999, 2001***
Diatoms (Siberia; Paleogene)	Z.I. Glezer, 2005
Diatom zones (Siberia; Paleogene)	Z.I. Glezer, 2005
Diatom subzones (Siberia; Paleogene)	Z.I. Glezer, 2005
Silicoflagellates (Siberia; Paleogene)	Z.I. Glezer, 2005
Silicoflagellate zones (Siberia; Paleogene)	Z.I. Glezer, 2005
Spores and Pollen (Siberia; Paleogene)	Panova, 1991, 2001***
Spores-Pollen zones (Siberia; Paleogene)	Panova, 1991, 2001***
Shark's teeth (Siberia; Paleogene)	
Shark's teeth zones (Siberia; Paleogene)	Zhelezko, 1999
Far Southeast Russia (Neogene)	
Primorye (Neogene)	
Primorye Suite [Horizon] (Neogene)	Primorie (Continental slope of Japan sea). Stratigraphic columns by Tsoy, Shastina, 1999
Diatoms (Primorye; Neogene)	Tsoy, Shastina, 1999
Radiolarians (Primorye; Neogene)	Tsoy, Shastina, 1999
Sakhalin (Neogene)	
Sakhalin Stage [Horizon] (Neogene)	Resolution..., 1998
Sakhalin Substage [Sub-Horizon] (Neogene)	
Diatoms (Sakhalin; Neogene)	Resolution..., 1998
Diatom subzone (Sakhalin; Neogene)	Resolution..., 1998
Far Northeast Russia (Cenozoic)	
Koryak region (Paleogene)	
Koryak regional stage [Horizon] (Neogene)	Koryakian ridge is where Kamchatka connects to Siberia; Neogene stratigraphic summary by Reshenia ..., 1998
Diatoms (Koryak; Neogene)	Reshenia ..., 1998
Kamchatka - western part (Neogene)	
W. Kamchatka Stage [Horizon]	Resolutions..., 1998
Diatoms (W.Kamchatka)	Resolutions..., 1998
Benthic Foraminifers (W.Kamchatka)	T.V. Dmitriyeva, 2005
Benthic Foraminifer subzone (W.Kamchatka)	T.V. Dmitriyeva, 2005
Kamchatka - eastern part (Cenozoic)	
E. Kamchatka Stage [Horizon]	Resolutions..., 1998
Diatoms (E.Kamchatka; Neogene)	Resolutions..., 1998
Planktonic foraminifers (E.Kamchatka; Cenozoic)	Beniamovskian in Beniamovskian, Fregatova, 1992
Benthic foraminifers (E.Kamchatka; Cenozoic)	Fregatova in Foraminifers of Cainozae, 2005

Russian Mesozoic

International and Russian Standards (Mesozoic)

Cretaceous Biostrat Standards (Russian version)

Cretaceous Ammonite Standard

Ammonites -- Russian standard zones

Ammonites -- Russian standard subzones

Cretaceous Microfossil Standards

Planktonic Foraminifers (Tethyan; Cret.)

Calcareous Nannofossils (Tethyan; Cret.)

CC subzone (Cret.)

Calcareous Nannofossils (Oceanic; Cret.)

Boreal macrofossil standard (mixed groups; Cret.)

Boreal macrofossil zones (Cret.)

Boreal macrofossil alternate zones (Cret.)

Standard Ammonite Zone (Jur.)

Stand. Ammon. Zones (Jur.)

Ammonites [Boreal standard; Jur.]

Boreal Standard Zones

Russian Tethyan Ammonoids (Tri.)

Cretaceous Microfossil Standards

Zones are from Russian chart (2006) which referenced: Olferev, Aleksev, 2002; Hoedemaeker et al., 2003

Zones are from Russian chart (2006) which referenced: Olferev, Aleksev, 2002; Hoedemaeker et al., 2003

Leymeriella tardefurcata

Caron, 1985; Robaszynski, Caron, 1995

Perch-Nielsen, 1985

Perch-Nielsen, 1985

Roth, 1995

Zakharov et al., 1997; Baraboshkin, 2004

Zakharov et al., 1997; Baraboshkin, 2004

Zakharov et al., 1997; Baraboshkin, 2004

Biostratigraphie du Jurassique Ouest-Europeen et Mediterranee, 1997; The Jurassic of Denmark and Greenland, 2003

Biostratigraphie du Jurassique Ouest-Europeen et Mediterranee, 1997; The Jurassic of Denmark and Greenland, 2003

I.I. Sey, E.D. Kalacheva, Yu.S. Repin, 2005

I.I. Sey, E.D. Kalacheva, Yu.S. Repin, 2005

I.I. Sey, E.D. Kalacheva, Yu.S. Repin, 2005

Krystyn in Zapfe, 1983; Krystyn, 1987; ETC ETC

- Standard Ammonoid Zone (Tethyan; Tri.)
Standard Ammonoid Subzone (Tethyan; Tri.)
- Standard Ammonoid Zone (Boreal; Tri.)**
Standard Zone (Boreal; Tri.)
Standard Ammonoid Subzone (Boreal; Tri.)
Standard Ammonoid Sub-subzone (Boreal; Tri.)
- European and SW Russia (Mesoz.)**
- N. Caucasus (Mesoz.)**
N. Caucasus Stage [Horizon] (Mesoz.)
N. Caucasus Series (Tri.)
N. Caucasus regional [Horizon] (Mesoz.)
Ammonite-Belemnite scheme of Cret. (N. Caucasus)
Ammonite-Belemnite zones (N. Caucasus; Cret.)
Ammonite subzone (N. Caucasus; Cret.)

Ammonoids (N. Caucasus; Jur-Tri.)

Echinoderms (N. Caucasus; Cret.)
Echinoderm zones (N. Caucasus)
Pelecypods (N. Caucasus; Meso.)
Pelecypod zones (N. Caucasus; Mesoz.)
Brachiopods (N. Caucasus; E.Cret.)
Brachiopod zones (N. Caucasus) -- E.Cret.
Brachiopod subzones (N. Caucasus) -- E.Cret.
Planktonic Foraminifers (N. Caucasus; Cret.)
Planktonic Foram zone (N. Caucasus; Cret.)
Planktonic Foram subzone (N. Caucasus; Cret.)

Benthic Foraminifers (N. Caucasus; Meso.)

Benthic Foram zone (N. Caucasus; Mesoz.)
Benthic Foram subzone (N. Caucasus; Mesoz.)
- Precaucasus (Tri.)**
Precaucasus Suite (Trias.)
Ammonoids (Precaucasus; Tri.)
Pelecypods (Bivalves) (Precaucasus; Tri.)
Benthic Foraminifers (Precaucasus; Tri.)
Conodonts (Precaucasus; Tri.)
- East-European Platform (Mesoz.)**
EEP Stage [Horizon] (Jur-Cret.)
EEP Series (Super-Horizon)
EEP regional [Horizon]
Ammonites (EEP; Jur-Cret.)
Ammonite zones (EEP; Jur-Cret.)
Ammonite subzones (EEP; Jur-Cret.)
Belemnites, Molluscs and Echinoderms (EEP; Cret.)
Belemnite, Mollusc and Echinoderm zones (EEP)
Belemnite superzones (EEP)
Belemnites (EEP; Jur.)
Pelecypods (Bivalves) (EEP; Jur.)
Planktonic Foraminifers (EEP; Cret.)
Planktonic Foram zone (EEP)
Benthic Foraminifers (EEP; Jur.)
Calcareous Nannoplankton (EEP; Cret.)
Nannoplankton zone (EEP)
Dinoflagellate cysts (EEP; Jur.)
- West Urals and West Arctic (Mesoz.)**
- Timan-Pechora basin (Jur.)**
Timan-Pechora basin Stage (Suite) (Jur.)
Ammonites (Timan-Pechora; Jur.)
Benthic Foraminifers (Timan-Pechora; Jur.)
Benthic Forams (Timan-Pechora) -- parallel zones (U.Jur.)
- Eastern Barents Sea -- Franz-Joseph Land (Jur-Tri)**
Franz-Joseph Stage (Horizon)
Ammonites (Franz-Joseph)
Benthic Foraminifers (Franz-Joseph)
- Kotelniy Island (Arctic; Tri.)**
Benthic Forams (Kotelnian)
- Siberian Basin and Platform (Mesoz.)**
- West Siberia (Mesoz.)**
W. Sibe:
West Siberia regional [Horizon]
Ammonites (W. Siberia; Jur-Cret.)
Ammonite zones (West Siberia)
Ammonite subzones (West Siberia)
Ammonite -- Other zones (W. Siberia; Jur.)
Belemnites (W. Siberia; Jur-Cret.)
- Tozer, 1994
Tozer, 1994
Tozer, 1994
Tozer, 1994
- Regional biostratigraphic subdivisions of the Tethys region (zones, layers with faunas)
- JUR = The Jurassic Ammonite Zones of the Soviet Union, 1998 (edited by G. Ya. Krymholts, M.S. Mesezhnikov, and G.E.G. Westermann). GSA V Series: Spec. Paper, 116 pp.; AND Jurassic of the Caucasus, 1992.; TRI = Shevryev, 1995, 1996
- TRI = Atlas of Important ..., 2004
TRI = Atlas of Important ..., 2004
- JUR = Makar'eva, Matsieva, 1985; Practical Manual ..., 1991; TRI = Yefimova, 1991; V.Ya. Vuks, 2005
JUR = Makar'eva, Matsieva, 1985; Practical Manual ..., 1991; TRI = Yefimova, 1991; V.Ya. Vuks, 2005
- Atlas of importanta..., 2004
I.I. Sey, E.D. Kalacheva, Yu.S. Repin, 2005
Yetimova, 1991; Vuks, 2000
Pyatakova et al., 1983; Gavnilova 1994
Unified Stratigraphic Scheme ..., 1993; Resolutions of MSK ..., 1997, 2001.
- Olferev, Aleksev, 2003
- CRET = Olferev, Aleksev, 2003; JUR = Unified Stratigraphic Scheme ..., 1993; Resolutions of MSK ..., 1997, 2001.
Olferev, Aleksev, 2003
- Unified Stratigraphic Scheme ..., 1993; Resolutions of MSK ..., 1997, 2001.
Unified Stratigraphic Scheme ..., 1993; Resolutions of MSK ..., 1997, 2001.
- Unified Stratigraphic Scheme ..., 1993; Resolutions of MSK ..., 1997, 2001.
M.N. Ovechkina, 2005
M.N. Ovechkina, 2005
Unified Stratigraphic Scheme ..., 1993; Resolutions of MSK ..., 1997, 2001.
- Mesezhnikov, 1984; Mesezhnikov et al, 1989; Meledina, 1994; Repin, 2002
Unified Stratigraphic Scheme ..., 1993.
Unified Stratigraphic Scheme ..., 1993.
- Chulgina, Brudikina, 1992; Repin, 1999a
JUR = Barents Sea Shelf Plate, 1988; TRI = Kasatkina, 1989
Kasatkina, 1989
Kasatkina, 1989
- Regional stratigraphic schemes ..., 2004; Stratigraphy of Oil-Bearing ..., 2000
Regional stratigraphic schemes ..., 2004; Stratigraphy of Oil-Bearing ..., 2000
Regional stratigraphic schemes ..., 2004; Stratigraphy of Oil-Bearing ..., 2000
Regional stratigraphic schemes ..., 2004; Stratigraphy of Oil-Bearing ..., 2000
Regional stratigraphic schemes ..., 2004; Stratigraphy of Oil-Bearing ..., 2000
- Regional stratigraphic schemes ..., 2004; Stratigraphy of Oil-Bearing ..., 2000

Belemnite zones (West Siberia)	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
Pelecypods (W. Siberia; Jur-Cret)	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
Pelecypod zones (West Siberia)	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
Pelecypod alternate zones (West Siberia)	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
Ostracods (W. Siberia; Jur.)	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
W. Siberia ostracodes	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
Benthic Foraminifers (W. Siberia; Jur-Cret)	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
Benthic Foraminifer zones (West Siberia)	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
Benthic Foraminifer alternate zones (West Siberia)	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
Benthic Foraminifer alternate zone 2 (West Siberia)	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
Dinoflagellates (W. Siberia; Jur.)	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
W. Siberia dinocysts	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
Radiolarians (W. Siberia; Cret.)	
Radiolarian zones (West Siberia)	
East Siberia (NE Russia) (Mesoz.)	
E. Siberia Stage [Horizon] (Tri)	<i>Regional Stratigraphic Scheme ...</i> , 2002; <i>Resolutions MCK ...</i> , 2003
Siberia Series (Super-Horizon) (Tri.)	<i>Regional Stratigraphic Scheme ...</i> , 2002; <i>Resolutions MCK ...</i> , 2003
Siberia Stage (Horizon) (Tri)	<i>Regional Stratigraphic Scheme ...</i> , 2002; <i>Resolutions MCK ...</i> , 2003
Siberia Substage (Sub-Horizon) (Tri.)	<i>Regional Stratigraphic Scheme ...</i> , 2002; <i>Resolutions MCK ...</i> , 2003
Conodonts (E. Siberia; Tri.)	<i>Regional Stratigraphic Scheme ...</i> , 2002; <i>Resolutions MCK ...</i> , 2003
Conodont zone (Siberia; Tri.)	<i>Regional Stratigraphic Scheme ...</i> , 2002; <i>Resolutions MCK ...</i> , 2003
Conodont subzone (Siberia; Tri.)	<i>Regional Stratigraphic Scheme ...</i> , 2002; <i>Resolutions MCK ...</i> , 2003
Ammonoids (E. Siberia; Mesoz.)	<i>CRET = Yazykova, 2004; JUR = Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000; <i>TRI = Regional Stratigraphic Scheme ...</i> , 2002; <i>Resolutions MCK ...</i> , 2003
Ammonite zones (NE Russia; Mesoz.)	<i>CRET = Yazykova, 2004; JUR = Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000; <i>TRI = Regional Stratigraphic Scheme ...</i> , 2002; <i>Resolutions MCK ...</i> , 2003
Ammonite super- or subzone (NE Russia)	<i>CRET = Yazykova, 2004; JUR = Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000; <i>TRI = Regional Stratigraphic Scheme ...</i> , 2002; <i>Resolutions MCK ...</i> , 2003
Ammonite alternate zones (NE Russia)	<i>Yazykova, 2004</i>
Turritiles zone (NE Russia)	<i>Yazykova, 2004</i>
Nautiloid Zone (Siberia)	<i>Regional Stratigraphic Scheme ...</i> , 2002; <i>Resolutions MCK ...</i> , 2003
Nautiloid Subzone (Siberia)	<i>Regional Stratigraphic Scheme ...</i> , 2002; <i>Resolutions MCK ...</i> , 2003
Belemnites (E. Siberia; Jur-Cret)	
Belemnite zones (East Siberia)	
Pelecypods (Bivalves, Inoceramids) (W. Siberia; Mesoz.)	<i>CRET = Zonova, 2005; JUR = Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
Inoceramid zones (NE Russia)	<i>Zonova, 2005</i>
Inoceramid alternate zones (NE Russia)	<i>Zonova, 2005</i>
Pelecypod zones (East Siberia)	<i>CRET = Zonova, 2005; JUR = Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000; <i>TRI = Regional Stratigraphic Scheme ...</i> , 2002; <i>Resolutions MCK ...</i> , 2003
Pelecypod Subzone (Siberia; Tri.)	<i>Regional Stratigraphic Scheme ...</i> , 2002; <i>Resolutions MCK ...</i> , 2003
Pelecypod Sub-subzone (Siberia; Tri.)	<i>Regional Stratigraphic Scheme ...</i> , 2002; <i>Resolutions MCK ...</i> , 2003
Pelecypod superzone (East Siberia)	
Bivalves (E. Siberia) - parallel zones (M.Jur.)	
Brachiopods (E. Siberia; Tri)	<i>Regional Stratigraphic Scheme ...</i> , 2002; <i>Resolutions MCK ...</i> , 2003
Brachiopod zone (Siberia; Tri.)	<i>Regional Stratigraphic Scheme ...</i> , 2002; <i>Resolutions MCK ...</i> , 2003
Ostracods (E. Siberia; E. Jur.)	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
E. Siberia Ostracod zones (E. Jur.)	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
Benthic Foraminifers (E. Siberia; Mesoz.)	<i>JUR = Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000; <i>TRI = Stratigraphy of Gas- and Oil-Bearing ...</i> , 2002
Benthic Forams zones (E. Siberia; Mesoz.)	<i>JUR = Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000; <i>TRI = Stratigraphy of Gas- and Oil-Bearing ...</i> , 2002
Benthic Forams (E. Siberia) -- Trochammina zones	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
Benthic Forams E. Siberia -- other zone	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
Radiolarians (W. Siberia; Cret.)	<i>Vishnevskian, 2001</i>
Radiolarian zones (NE Russia)	<i>Vishnevskian, 2001</i>
Dinoflagellates (W. Siberia; Jur.)	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
E. Siberia DinocystZones	<i>Regional stratigraphic schemes ...</i> , 2004; <i>Stratigraphy of Oil-Bearing ...</i> , 2000
Dinocysts (E. Siberia) -- parallel zones (E. Jur.)	
Northeast Russia (Jur.)	
NE Russia Stages (Horizons) (Jur.)	<i>Regional stratigraphic scheme ...</i> , 2003; <i>Resolutions of MSK ...</i> , 2003
Ammonites (NE Russia; Jur.)	<i>Regional stratigraphic scheme ...</i> , 2003; <i>Resolutions of MSK ...</i> , 2003
Belemnites (NE Russia; Jur.)	<i>Regional stratigraphic scheme ...</i> , 2003; <i>Resolutions of MSK ...</i> , 2003
Pelecypods (Bivalves) (NE Russia; Jur.)	<i>Regional stratigraphic scheme ...</i> , 2003; <i>Resolutions of MSK ...</i> , 2003
Brachiopods (NE Russia; Jur.)	<i>Regional stratigraphic scheme ...</i> , 2003; <i>Resolutions of MSK ...</i> , 2003
Radiolarians (NE Russia; Jur.)	<i>Regional stratigraphic scheme ...</i> , 2003; <i>Resolutions of MSK ...</i> , 2003
South-central Russia (SW Siberia; Mesoz.)	
Transbaikal (Tri-Jur)	
Eastern Russia stages [Horizons] (Tri.)	<i>Atlas of Mesozoic ...</i> , 2004
Eastern Russia stages (Tri.)	<i>Atlas of Mesozoic ...</i> , 2004
Eastern Russia substages (Tri.)	<i>Atlas of Mesozoic ...</i> , 2004
Ammonoids (Transbaikal; Tri-Jur)	
Ammonoid zones (Transbaikal; Tri-Jur)	<i>Atlas of Mesozoic ...</i> , 2004
Pelecypods (Bivalves) (Transbaikal; Tri-Jur)	
Pelecypods (Bivalves) (Transbaikal; Tri-Jur)	<i>Atlas of Mesozoic ...</i> , 2004
Pelecypod subzones (Transbaikal; Tri-Jur)	<i>Atlas of Mesozoic ...</i> , 2004
Far Southeast Russia (Mesoz.)	
Sikhote - Alin (E. Cret.) - Sakhalin (Lt. Cret.)	
Sikhote-Alin regional stage (Cret.)	

Sikhote-Alin Stage [Horizon] (Cret.)	
Ammonites (Sikhote-Sakhalin; Cret.)	Yazkyova, 2004
Ammonite zones (Sikhote-Sakhalin; Cret.)	Yazkyova, 2004
Ammonite subzones (Sikhote-Sakhalin; Cret.)	Yazkyova, 2004
Inoceramids an Pelecypods (Sikhote-Sakhalin; Cret.)	Zonova, 2004
Inoceramid zones (Sakhalin)	Zonova, 2004
Inoceramid alternate zones (Sakhalin)	Zonova, 2004
Pelecypods (Sikhote-Alin)	
Pelecypod alternate zones (Sikhote-Alin)	
Radiolarians (Sakhalin; Lt. Cret.)	Kazincova, 2000
Radiolarian zones (Sakhalin)	Kazincova, 2000
Far-East Russia (Tri-Jur)	
NE Asia Triassic stages	
NE Asia stage (Tri.)	
NE Asia substage (Tri.)	
Conodonts (S. Primorie; Tri.)	Bragin, 1991
Ammonites (Far-East Russia; Tri-Jur)	JUR ("Far-East Asia) = Atlas of Mesozoic ..., 2004; TRI ("NE Asia") = Resolutions of MSK ..., 2003.
Ammonite zones (Far-East Russia; Tri-Jur)	Atlas of Mesozoic ..., 2004
Ammonite subzones (NE Asia; Tri)	Resolutions of MSK ..., 2003.
Pelecypods (Bivalves) (Far-East Russia; Jur.	Atlas of Mesozoic ..., 2004
Radiolarians (S. Primorie; Tri.)	Bragin, 2000
Far Northeast Russia (Mesoz.)	
Koryak region (N of Kamchatka; Cret; Tri.)	
Far-Northeast Russia Stage (Cret; Tri.)	
Far-NE Russia stage (Mesoz.)	TRI = Regional Stratigraphic ..., 2002; Resolutions MSK ..., 2003
Ammonoids (Koryak; Cret; Tri.)	TRI = Regional Stratigraphic ..., 2002; Resolutions MSK ..., 2003
Ammonoid zones (Koryak; Cret; Tri.)	TRI = Regional Stratigraphic ..., 2002; Resolutions MSK ..., 2003
Pelecypods (Koryak; Cret; Tri.)	TRI = Regional Stratigraphic ..., 2002; Resolutions MSK ..., 2003
Pelecypod zone (Koryak; Cret; Tri.)	TRI = Regional Stratigraphic ..., 2002; Resolutions MSK ..., 2003
Pelecypod -- Aucellina zone (NE Russia)	TRI = Regional Stratigraphic ..., 2002; Resolutions MSK ..., 2003
Radiolarians (Koryak; Tri.)	
Radiolarian zone (Koryak; Tri.)	Bragin, 2000; Resolutions MSK ..., 2003
Radiolarian subzone (Koryak; Tri.)	Bragin, 2000; Resolutions MSK ..., 2003

Russian Late Paleozoic

International and Russian Standards (Lt. Paleozoic)

Standard Biostratigraphic Zones (Permian)

Russian Permian Series [Otdel]
 Russian Permian Stage [Yaris]
 Russian Permian Substage [Super-Horizon]
 Conodonts -- Russian Permian standard zones

Zones are from Russian chart (2006) which referenced: Chernik and Chuvashov et al., 2002; Jin et al., 1997

Russian Tethyan Permian Chronostratigraphy

Series (Russian Tethyan)
 Stage (Russian Tethyan)
 Fusulinid Standard (Russian Tethyan)

Resolutions, MCK ..., 1981
 Resolutions, MCK ..., 1981
 Resolutions, MCK ..., 1981
 Leven, 1980, 1998; Jin et al., 2003b

Standard Chronostratigraphy and Zones (Carboniferous; Russian version)

Stage (Yaris) - Russia version
 Substage (Pod-yaris) - Russia version
 Standard Benthic Foraminifer Zone
 Ammonoid standard zones (Carb.)
 Conodont standard zones (Carb.)

Zones are from Russian chart (2006) which referenced: Postanovlenia MSK ..., 2003
 Zones are from Russian chart (2006) which referenced: Postanovlenia MSK ..., 2003
 Zones are from Russian chart (2006) which referenced: Postanovlenia MSK ..., 2003

Standard Biostratigraphic Zones (Devonian)

Devonian standard stages and substages (Russian version)

Devonian Stage (Yaris) - Russia version
 Devonian Substage (Pod-yaris) - Russia version

Conodonts (Devonian)

Devonian Conodont Zone (TS-Creator)
 Devonian Conodont Subzone (TS-Creator)
 Standard Devonian Conodont Zone (Russian)
 Standard Devonian Conodont Subzone (Russian)

Ziegler, Sandberg, 1990

Graptolite Standard (Devonian)

Graptolite Zone (Devonian)

Ziegler, Sandberg, 1990
 Ziegler, Sandberg, 1990
 Alberti, Maletz in Weddige, 1996
 Alberti, Maletz in Weddige, 1996

Ammonoid Standard (Devonian)

Ammonite zone number (Dev.)
 Ammonite subzone letter (Dev.)
 Ammonite zone name (Dev.)
 Ammonite subzone name (Dev.)

Becker in Weddige, 1996; Becker, House, 2000
 Becker in Weddige, 1996; Becker, House, 2000
 Becker in Weddige, 1996; Becker, House, 2000
 Becker in Weddige, 1996; Becker, House, 2000
 Ammonite subzone name (Dev.)

Other Major Biostratigraphic Zonations (Devonian)

Ostracods (Devonian)

Main Ostracod zones (Dev.)
 Additional Ostracod zone

Groos-Uffendorde, Wang, 1989; Groos-Uffendorde, Lethiers, Blumenstengel, 2000
 Groos-Uffendorde, Wang, 1989; Groos-Uffendorde, Lethiers, Blumenstengel, 2000
 Groos-Uffendorde, Wang, 1989; Groos-Uffendorde, Lethiers, Blumenstengel, 2000

Vertebrates (Devonian)

Vertebrate zones (Dev.)

Ginter, Ivanov, 2000
 Ginter, Ivanov, 2000

Dacryoconarids (Devonian)	<i>Dacryoconarid are within the Class Cricoconarida of molluscs, relative of tentaculitids</i>
Dacryoconarid zone	<i>Koren, Klishevich, 1982; Alberti in: Weddige, 1996; Becker, House, 2000</i>
Dacryoconarid subzone	<i>Koren, Klishevich, 1982; Alberti in: Weddige, 1996; Becker, House, 2000</i>
European and SW Russia (Lt. Paleoz.)	
East European Platform (EEP; Lt. Paleoz.)	
EEP regional stage (Horizon; Lt. Paleoz.)	
EEP Series (Super-Horizon) (Dev.)	
EEP regional stage (Horizon)	
EEP Substage (Sub-Horizon) (Dev.)	
Conodonts (EEP; Lt. Paleoz.)	<i>PERM = Chernikh, Silantyev, 2004; CARB = Goreva, Alekseev in: Makhlina et al., 2001; Alekseev et al., 2004; Sugatullina, 2002; Makhlina et al., 1993; Alekseev et al., 2004; DEVON = PERM = Chernikh, Silantyev, 2004; CARB = Goreva, Alekseev in: Makhlina et al., 2001; Alekseev et al., 2004; Sugatullina, 2002; Makhlina et al., 1993; Alekseev et al., 2004; DEVON = Aristov, 1994; Ovantanova, Kononova, 2001; Aristov, Ovantanova, 1985; Khalmalsba, 1981</i>
Conodont zones (EEP)	<i>Ovantanova, Kononova, Menner, 2005</i>
Shallow-water sediments (Dev.) (central region of EEP)	<i>PERM = Pronina, 1999; Klevcov, 2004; CARB = Zaitzeva 2003; Isakova in: Makhlina et al., 2001; Achmetshina, Gibshman, 2002; Alekseev et al., 2004; Kulagina et al., 2001 Makhlina et al., 1993; Alekseev et al., 2004; Gibshman, 2001; Zaytzeva, 2002; DEVON = Chizhova, 2005</i>
Deep-water sediments (Dev.) (eastern regions of EEP)	<i>PERM = Pronina, 1999; Klevcov, 2004; CARB = Zaitzeva 2003; Isakova in: Makhlina et al., 2001; Achmetshina, Gibshman, 2002; Alekseev et al., 2004; Kulagina et al., 2001 Makhlina et al., 1993; Alekseev et al., 2004; Gibshman, 2001; Zaytzeva, 2002; DEVON = Chizhova, 2005</i>
Benthic Foraminifers (EEP; Lt. Paleoz.)	<i>Zaitzeva 2003; Isakova in: Makhlina et al., 2001; Achmetshina, Gibshman, 2002; Alekseev et al., 2004; Kulagina et al., 2001 Makhlina et al., 1993; Alekseev et al., 2004; Gibshman, 2001; Zaytzeva, 2002</i>
Benthic Foraminifer zones (EEP)	<i>Leonova, Shilovskian, 2004</i>
Benthic Foraminifer subzones (Carb.; EEP)	<i>Leonova, Shilovskian, 2004</i>
Ammonoids (EEP; Lt. Paleoz.)	<i>PERM = Kotlyar et al., 2004; CARB = Lazarev, 2001, 2002; DEVON = Rzhonsnitskaya, 2000; Solution..., 1990a</i>
Ammonoid zones (Perm.; EEP)	<i>PERM = Kotlyar et al., 2004; CARB = Lazarev, 2001, 2002; DEVON = Rzhonsnitskaya, 2000; Solution..., 1990a</i>
Brachiopods (EEP; Lt. Paleoz.)	<i>Cyrtospirifer zadonicus - Ripidiorhynchus huotinus</i>
Brachiopod zones (EEP)	<i>Gusev, 1996; Silantyev, 2004</i>
Brachiopod subzone (EEP)	<i>Gusev, 1996; Silantyev, 2004</i>
Pelecypods (EEP; Lt. Paleoz.)	<i>PERM = Molostovskaya, 1999; CARB = Resheuiya, 1990b; Chizhova et al., 1997; DEVON = Solution..., 1990a; Chizhova, 2002, 2005</i>
Pelecypod zones (EEP)	<i>PERM = Molostovskaya, 1999; CARB = Resheuiya, 1990b; Chizhova et al., 1997; DEVON = Solution..., 1990a; Chizhova, 2002, 2005</i>
Ostracods (EEP; Lt. Paleoz.)	<i>Yesaulova, 1998</i>
Ostracod zones (EEP)	<i>Yesaulova, 1998</i>
Charophytes (EEP; Lt. Paleoz.)	<i>Kossovaya, 1997, 2002; Kossovaya in: Makhlina et al., 2001</i>
Charophyte zones (EEP)	
Rugose Corals (EEP; Lt. Paleoz.)	<i>Minikh, A. Minikh, 1999; Yesin, Mashin, 1996</i>
Vertebrates (Fish) (EEP; Lt. Paleoz.)	<i>Minikh, A. Minikh, 1999; Yesin, Mashin, 1996</i>
Ichthy-fauna zones (Permian; EEP)	<i>Ivanov, Luksevics, 1996; Talimma, 2000; Blicek, Cloutier, 2000; Mark-Kunik, 2000</i>
Ichthy-fauna subzones (EEP)	
Main Fish zones (EEP, Devon.)	
Phyllolepidae	
Tetrapods (EEP; Lt. Paleoz.)	<i>Golubev, 2004</i>
Tetrapod super-zones (EEP)	<i>Golubev, 2004</i>
Tetrapod zones (EEP)	<i>Golubev, 2004</i>
Tetrapod subzones (EEP)	<i>Golubev, 2004</i>
Pollen-Miospores (EEP; Lt. Paleoz.)	
Pollen zones (EEP)	<i>Resolution ..., 1990b</i>
Miospores (EEP)	<i>CARB = Podgainaya, Loboziak, Owens, 1996; Bivsheva, Umnova in: Makhlina et al., 1993; Podgainaya, Loboziak, Owens, 1996; DEVON = Avkhimovitch et al., 1993; Solutions ..., 1990a.</i>
Miospore subzone (EEP)	<i>Avkhimovitch et al., 1993; Solutions ..., 1990a.</i>
Flora (EEP; Lt. Paleoz.)	<i>Yesaulova, 1998</i>
Flora zones (EEP)	<i>Yesaulova, 1998</i>
Northeast subregion of EEP (Devon.)	
Northeast European Regional	
NEEP Stage (Horizon) (Dev.)	
NEEP Sub-Horizon (Dev.)	
Conodonts (NEEP)	<i>Solutions, 1900a; Ovnanatova, Kuzmin, Menner, 1999</i>
TP zone	<i>Solutions, 1900a; Ovnanatova, Kuzmin, Menner, 1999</i>
Conodont zone (NEEP)	<i>Solutions, 1900a; Ovnanatova, Kuzmin, Menner, 1999</i>
Brachiopods (NEEP)	
Brachiopod zone (NEEP)	<i>Yudina, Moskalenko, 1997; Solution ..., 1990a</i>
Ostracods (NEEP)	<i>Chizhova, 2005;; Yudina, Moskalenko, 1997; Moskalenko, 2001; Abushek, Shamsyutdinova, 2000</i>
Ostracod zone (NEEP)	<i>Chizhova, 2005;; Yudina, Moskalenko, 1997; Moskalenko, 2001; Abushek, Shamsyutdinova, 2000</i>
Ostracod subzone (NEEP)	<i>Chizhova, 2005;; Yudina, Moskalenko, 1997; Moskalenko, 2001; Abushek, Shamsyutdinova, 2000</i>
Ammonoids (NEEP)	<i>Bogslavian 1991; Kuzmin, Yatskov 1997; House et al., 2000</i>
Ammonoid zone (NEEP)	<i>Bogslavian 1991; Kuzmin, Yatskov 1997; House et al., 2000</i>
Vertebrates (Fish) (NEEP)	<i>Ivanov, Luksevics. 1996</i>
Main Fish zones (NEEP)	<i>Ivanov, Luksevics. 1996</i>
Fish subzone (NEEP)	<i>Ivanov, Luksevics. 1996</i>
Miospores (NEEP)	<i>Nekryata, 1999; Obukhovaya, 2000; Solution ..., 1990a; Lareiova et al., 199a; Telnova, 2002</i>
Miospore zone (NEEP)	<i>Nekryata, 1999; Obukhovaya, 2000; Solution ..., 1990a; Lareiova et al., 199a; Telnova, 2002</i>
Miospore subzone (NEEP)	<i>Nekryata, 1999; Obukhovaya, 2000; Solution ..., 1990a; Lareiova et al., 199a; Telnova, 2002</i>
West Urals and West Arctic (Lt. Paleoz.)	
South Urals (Lt. Paleoz.)	
S. Urals regional stage (Lt. Paleoz.) (Horizon)	

Conodonts (S. Urals, Lt. Paleoz.)	PERM = Chuvashov et al., 2002; CARB = Chernikh, 2002; Pazukhin in: kulagina et al., 2001; Alekseev et al., 2002; Pazukhin in: Guide..., 1995; Kulagina et al., 1992; Kulagina et al., 2003; Nikolaeva et al., 2002
Conodont zone (S. Urals)	PERM = Chuvashov et al., 2002; CARB = Chernikh, 2002; Pazukhin in: kulagina et al., 2001; Alekseev et al., 2002; Pazukhin in: Guide..., 1995; Kulagina et al., 1992; Kulagina et al., 2003; Nikolaeva et al., 2002
Conodont subzones (S. Urals)	Chernikh, 2002; Pazukhin in: kulagina et al., 2001; Alekseev et al., 2002; Pazukhin in: Guide..., 1995; Kulagina et al., 1992; Kulagina et al., 2003; Nikolaeva et al., 2002
Conodont Mesogondolella zone (S. Urals)	Chuvashov et al., 2002
Benthic Foraminifers (S. Urals, Lt. Paleoz.)	PERM = Chuvashov et al., 2002; CARB = Davidov, 1986; Kulagina et al., 2000; Ivanova, 2002; Kulagina et al., 2003
Benthic Foram zone (S. Urals)	PERM = Chuvashov et al., 2002; CARB = Davidov, 1986; Kulagina et al., 2000; Ivanova, 2002; Kulagina et al., 2003
Benthic Foraminifer subzones (S. Urals)	Davidov, 1986; Kulagina et al., 2000; Ivanova, 2002; Kulagina et al., 2003
Ammonoids (S. Urals, Lt. Paleoz.)	PERM = Chuvashov et al., 2002; Boyko, 2003; CARB = Popov, 1985; Borisenkov, 2003; Stepanov et al., 1977; Nikolaeva Kullmann, 2001; Nikolaeva et al., 2001
Ammonoid genera-zones (S. Urals)	Chuvashov et al., 2002; Boyko, 2003
Ammonoid zones (S. Urals)	PERM = Chuvashov et al., 2002; Boyko, 2003; CARB = Popov, 1985; Borisenkov, 2003; Stepanov et al., 1977; Nikolaeva Kullmann, 2001; Nikolaeva et al., 2001
Ammonoid subzones (S. Urals)	Popov, 1985; Borisenkov, 2003; Stepanov et al., 1977; Nikolaeva Kullmann, 2001; Nikolaeva et al., 2001
Brachiopods (S. Urals, Lt. Paleoz.)	Stratigraphic ..., 1993; Kucheva, Stepanova 2000
Brachiopod zones (S. Urals)	Stratigraphic ..., 1993; Kucheva, Stepanova 2000
Ostracods (S. Urals, Lt. Paleoz.)	Kochetova in: Kulagina et al., 2001; Kochetkova in: Guide..., 1995
Ostracod zones (S. Urals)	Kochetova in: Kulagina et al., 2001; Kochetkova in: Guide..., 1995
Ostracod subzones (S. Urals)	Kochetova in: Kulagina et al., 2001; Kochetkova in: Guide..., 1995
Rugose Corals (S. Urals, Lt. Paleoz.)	Ogar, 1985, 1990; Kossovaya, 2000, 2002
Rugose Coral zones (S. Urals)	Ogar, 1985, 1990; Kossovaya, 2000, 2002
Radiolarians (S. Urals, Lt. Paleoz.)	Amon, 1999; Amon, Chuvashov, 2004
Radiolarian zones (S. Urals)	Amon, 1999; Amon, Chuvashov, 2004
Radiolarian alternate zones (S. Urals)	Amon, 1999; Amon, Chuvashov, 2004
N. Timan (Lt. Paleoz.)	
N. Timan regional stage (Lt. Paleoz.) (Horizon)	
Conodonts (N. Timan, Lt. Paleoz.)	Goreva et al., 1997
Benthic Foraminifers (N. Timan, Lt. Paleoz.)	PERM = Barhatova, 1970; Grozdilova et al., 1980; Remizova, 2004; CARB = Grozdilova, Simakova, 1983; Remizova, 2004;
Benthic Foram subzones (N. Timan, Lt. Paleoz.)	Barhatova, 1970; Grozdilova et al., 1980; Remizova, 2004
Rugose Corals (N. Timan, Lt. Paleoz.)	PERM = Kossovaya, 1997; Goreva et al., 1997; CARB = Kossovaya in: Goreva et al., 1997; Kossovaya, 1997, 1998
Timan-Pechora basin (Lt. Paleoz.)	
Timan-Pechora regional stage (Lt. Paleoz.) (Horizon)	
Conodonts (Timan-Pechora, Lt. Paleoz.)	Zhuravlev, 2003
Benthic Foraminifers (Timan-Pechoran, Lt. Paleoz.)	PERM = Konovalova, 1991, 2005; Proonina, 1999; CARB = Kovovalova, 1991, 2000, 2002; Musafirova, 2000; Durkina, 1995, 1997, 2002; Kostigova, 2004;
Benthic Foraminifer subzones (Timan-Pechoran, Lt. Paleoz.)	Konovalova, 1991, 2005; Proonina, 1999
Ostracods (Timan-Pechora, Lt. Paleoz.)	Sobolev, 2000; Sovolev in: Zhuravlev, 2003
North Urals [or general Urals] (Lt. Paleoz.)	
N. Urals regional stage (Lt. Paleoz.) (Horizon)	
Urals Regional Series (Super-Horizon) (Dev.)	
N. Urals stage (Lt. Paleoz.) (Horizon)	
Urals Other Horizons (Dev.)	
Conodonts (N. Urals; Lt. Paleoz.)	PERM = Chuvashov et al., 1999; CARB = Sobolev, Nakrem 1996; Zhuravlev, 2003; DEVON = Khalimbadzhal, 1981; Guide..., 1995
Conodonts (N. Urals)	PERM = Chuvashov et al., 1999; CARB = Sobolev, Nakrem 1996; Zhuravlev, 2003; DEVON = Khalimbadzhal, 1981; Guide..., 1995
Conodont subzones (N. Urals; Carb.)	Sobolev, Nakrem 1996; Zhuravlev, 2003
Benthic Foraminifers (N. Urals; Lt. Paleoz.)	Remizova, 2000; Guide..., 1995
Benthic Foraminifer zones (N. Urals)	PERM = Remizova, 2000; Guide..., 1995; CARB = Mikhaylova, Chernikh, 1997; Ivanova, 2002; Konovalova, 2002; Chernikh, 1976; Vevel et al., 2000; Zhuravlev et al., 1999; DEVON = Koren, 1973
Graptolites (N. Urals; Lt. Paleoz.)	Koren, 1973
Graptolite zone (Urals, Dev.)	Koren, 1973
Ammonoids (N. Urals; Lt. Paleoz.)	PERM = Chuvashov, Bogoslovskaya, 1981; [No CARB]; DEVON = Stratigraph. Scheme of Ural, 1993
Ammonoid zones (N. Urals)	PERM = Chuvashov, Bogoslovskaya, 1981; [No CARB]; DEVON = Stratigraph. Scheme of Ural, 1993
Brachiopods (N. Urals; Lt. Paleoz.)	PERM = Biota..., 1998; Kotlyar et al., 2004; CARB = Unifitzirovannie..., 1993; Stepanov et al., 1977; DEVON = Stratigraph. Scheme of Ural, 1993
Brachiopod zones (N. Urals)	PERM = Biota..., 1998; Kotlyar et al., 2004; CARB = Unifitzirovannie..., 1993; Stepanov et al., 1977; DEVON = Stratigraph. Scheme of Ural, 1993
Brachiopod alternative zones (N. Urals)	PERM = Biota..., 1998; Kotlyar et al., 2004; CARB = Unifitzirovannie..., 1993; Stepanov et al., 1977; DEVON = Stratigraph. Scheme of Ural, 1993
Brachiopod subzone (Urals, Dev.)	Stratigraph. Scheme of Ural, 1993
Ostracods (N. Urals; Lt. Paleoz.)	[No PERM]; CARB = Tkacheva in: Zhuravlev, 2003; Sovolev, 2005; PERM = Stratigraph. Scheme of Ural, 1993
Ostracod zone (N. Urals; Lt. Paleoz.)	[No PERM]; CARB = Tkacheva in: Zhuravlev, 2003; Sovolev, 2005; PERM = Stratigraph. Scheme of Ural, 1993
Rugose Corals (N. Urals; Lt. Paleoz.)	Kossovaya, 1997, Kossovaya et al., 2001
Rugose Coral zones (N. Urals)	PERM = Kossovaya, 1997, Kossovaya et al., 2001; CARB = Kossovaya, 2002; Kossovaya, 2006 (in print); DEVON = Klishevich, 1985; Stratigraph. Scheme of Ural, 1993
Dacryconarids (N. Urals; Devon.)	Klishevich, 1985; Stratigraph. Scheme of Ural, 1993
Dacryconarid zone (Urals, Dev.)	Stratigraph. Scheme of Ural, 1993
Miospores (N. Urals; Devon.)	Stratigraph. Scheme of Ural, 1993
Miospore zone (Urals, Dev.)	Stratigraph. Scheme of Ural, 1993
Flora (N. Urals; Carbon.)	Pukhonto, 1998
Permian -- other zones in N.Urals to Timan-Pechora region	
Benthic Foraminifers (N. Urals; other Permian)	Proonina, 1999; Kotlyar, 2002

Brachiopods (N. Urals; other Permian)	<i>Malisheva et al., 2002</i>
Pelecypods (N. Urals; other Permian)	<i>Malisheva et al., 2002</i>
Pelecypods (N. Urals -2; other Permian)	<i>Kanev, 1994</i>
Novaya Zemlya (Lt. Paleoz.)	
Novaya Zemlya regional stage (Lt. Paleoz.) (Horizon)	
Novaya Zemlya stage (Lt. Paleoz.) (Horizon)	
Novaya Zemlya Sub-horizon (Dev.)	
Conodonts (Novaya Zemlya; Lt. Paleoz.)	<i>PERM = Sovolev, Nakrem, 1996; [No CARB]; DEVON = N. N. Sobolev, 2006</i>
Conodont zone (Nov. Zem.; Lt. Paleoz.)	<i>PERM = Sovolev, Nakrem, 1996; [No CARB]; DEVON = N. N. Sobolev, 2006</i>
Conodont subzone (Nov. Zem.; Lt. Paleoz.)	<i>Sovolev, Nakrem, 1996</i>
P. exigua lineage	<i>N. N. Sobolev, 2006</i>
Benthic Foraminifers (Novaya Zemlya; Lt. Paleoz.)	<i>PERM = Resolution..., 1990b; Pronina, 1999; CARB = Matveev, 1998</i>
Benthic Foram zone (Nov. Zem.; Lt. Paleoz.)	<i>PERM = Resolution..., 1990b; Pronina, 1999; CARB = Matveev, 1998</i>
Benthic Foram other complexes (W. Novaya Zemlya)	<i>Resolution..., 1990b; Pronina, 1999</i>
Ammonoids (Novaya Zemlya; Lt. Paleoz.)	<i>Matveev, 1998; Kuzina, Yatzkov, 1999</i>
Brachiopods (Novaya Zemlya; Lt. Paleoz.)	<i>PERM = Ganelin, 1994; Kotlyar, 2002; [No CARB]; DEVON = S.V. Cherkasova, 2006</i>
Brachiopod zone (Nov. Zem.; Lt. Paleoz.)	<i>PERM = Ganelin, 1994; Kotlyar, 2002; [No CARB]; DEVON = S.V. Cherkasova, 2006</i>
Brachiopod subzone (Nov. Zem.; Lt. Paleoz.)	<i>S.V. Cherkasova, 2006</i>
Pelecypods (Novaya Zemlya; Lt. Paleoz.)	<i>Byakov, 2000</i>
East Novaya Zemlya zones (Permian)	
E. Novaya Zemlya regional Suite	
Ammonoids (E. Novaya Zemlya)	<i>Bogoslovskaya et. al. 1982</i>
Brachiopods (E. Novaya Zemlya)	<i>Ganelin, 1994</i>
Pelecypods (E. Novaya Zemlya)	<i>Byakov, 2000</i>
Benthic Foraminifers (E. Novaya Zemlya)	<i>Sosipatrova, 1981; Pronina, 1999; Kotlya, 2002</i>
East Taimyr (Lt. Paleoz.)	
East Taimyr regional stage (Lt. Paleoz.) (Horizon)	
East Taimyr regional stage (Lt. Paleoz.) (Horizon)	
Benthic Foraminifers (East Taimyr; Lt. Paleoz.)	<i>Sosipatrova, 1981; Pronina, 1999</i>
Brachiopods (East Taimyr; Lt. Paleoz.)	<i>Ganelin, 1994</i>
Pelecypods (East Taimyr; Lt. Paleoz.)	<i>Byakov, 2000</i>
Nordvik region [NEEDS TRANSLATIONS] (Permian)	<i>Gerke, 1961; Pronina, 1999</i>
Benthic Foraminifers (Nordvik)	<i>Gerke, 1961; Pronina, 1999</i>
Siberian Basin and Platform (Lt. Paleoz.)	
East slope of Urals (Carbon.)	
E. Urals regional stage (Horizon) [Carbon.]	
Benthic Foraminifers (E. Urals; Carbon.)	<i>Subregionalnaga..., 1993; Kuchera, Slepianova 2000</i>
Brachiopods (E. Urals; Carbon.)	<i>Kuchera, Slepianova 2000</i>
Tunguska basin (Permian)	
Tunguska regional stage (Horizon; Perm.)	
Tunguska regional substage (Sub-horizon; Perm.)	
Pelecypods -- non-marine (Tunguska; Perm.)	<i>Late paleozoic of Angarida, 1988</i>
Flora (Tunguska; Perm.)	<i>Late paleozoic of Angarida, 1988</i>
South-central Russia (SW Siberia; Lt. Paleoz.)	
Altay Mountain region (Devon.)	
Altay-Sayan Regional Stages (Dev.)	
Altay-Sayan Super-horizon (Dev.)	
Altay-Sayan Stage (Horizon) (Dev.)	
Altay-Sayan Sub-horizon (Dev.)	
Conodonts (Altay-Sayan, Dev.)	<i>Yolkin et al., 2000; Bakharev et al., 2004</i>
Conodont zone (Altay-Sayan, Dev.)	<i>Yolkin et al., 2000; Bakharev et al., 2004</i>
Brachiopods (Altay-Sayan, Dev.)	<i>Yolkin et al., 2000; Bakharev et al., 2004</i>
Brachiopod zone (Altay-Sayan, Dev.)	<i>Yolkin et al., 2000; Bakharev et al., 2004</i>
Trilobites (Altay-Sayan, Dev.)	<i>Talent, Gratsianova, Yolkin, 2001</i>
Trilobite zone (Altay-Sayan, Dev.)	<i>Talent, Gratsianova, Yolkin, 2001</i>
Trilobite subzone (Altay-Sayan, Dev.)	<i>Talent, Gratsianova, Yolkin, 2001</i>
Dacryoconarids (Altay-Sayan, Dev.)	<i>Solutions..., 1982</i>
Dacryoconarid zone	
Cephalopods (Altay-Sayan, Dev.)	<i>Solutions..., 1982</i>
Cephalopod assemblage (Altay-Sayan, Dev.)	<i>Solutions..., 1982</i>
Kuznetsk basin (Perm-Carb.)	
Kuznetsk regional stage (Horizon)	
Benthic Foraminifers (Kuznetsk)	<i>Flora Gorelova, 1988; Unifitzirovannie..., 1988</i>
Pelecypods -- non-marine (Kuznetsk)	<i>Late paleozoic of Angarida, 1988</i>
Miospores (Kuznetsk)	<i>Dryagina, 1988</i>
Pollen zones (Kuznetsk)	<i>Late paleozoic of Angarida, 1988</i>
Flora (Kuznetsk; Perm.)	<i>Late paleozoic of Angarida, 1988</i>
Transbaikal (Perm.)	
Transbaikal regional stage (Horizon)	
Brachiopods (Transbaikal)	<i>Atlas..., 2002</i>
Pelecypods (Transbaikal)	<i>Atlas..., 2002</i>
Bryozoans (Transbaikal)	<i>Atlas..., 2002</i>
Far Southeast Russia (Lt. Paleoz.)	
Mongolia-Verkhoyano-Okhotsk (Perm-Carb.)	
Verkhoyano-Okhotsk regional stage (Horizon) (Perm-Carb)	
Ammonoids (Verkhoyano-Okhotsk; Perm-Carb)	<i>PERM = Kutigin et al., 2002; CARB = Resolutions..., 2003; Kletz, 2004</i>

Ammonoid zone (Verkhoyano-Okhotsk; Perm-Carb)	<i>PERM = Kutigin et al., 2002; CARB = Resolutions..., 2003; Kletz, 2004</i>
Ammonoid subzone (Verkhoyano-Okhotsk; Perm-Carb)	<i>Resolutions..., 2003; Kletz, 2004</i>
Brachiopods (Verkhoyano-Okhotsk; Perm-Carb)	<i>PERM = Kletz, 2004; CARB = Resolutions..., 2003; Kletz, 2004; Kletz, 2003</i>
Brachiopod zone (Verkhoyano-Okhotsk; Perm-Carb)	<i>PERM = Kletz, 2004; CARB = Resolutions..., 2003; Kletz, 2004; Kletz, 2003</i>
Pelecypods (Verkhoyano-Okhotsk; Perm.)	<i>Kurushin et al., 1996; Byakov, 2000</i>
Pelecypod zone (Verkhoyano-Okhotsk; Perm.)	<i>Kurushin et al., 1996; Byakov, 2000</i>
Pelecypod subzone (Verkhoyano-Okhotsk; Perm.)	<i>Kurushin et al., 1996; Byakov, 2000</i>
Sikhote - Alin (Perm.)	
Benthic Foraminifers (Sikhote-Alin; Perm.)	<i>Resolution..., 1991</i>
Radiolarians (Sikhote-Alin; Perm.)	<i>Rudenko, Panasenko, 1990, 1995</i>
South Primorye (Perm.)	
South Primorye regional stage (Horizon) (Perm.)	<i>Resolution ..., 1991</i>
Benthic Foraminifers (S. Primorye; Perm.)	<i>Resolution..., 1991</i>
Ammonoids (S. Primorye; Perm.)	<i>Resolution..., 1991</i>
Conodonts (S. Primorye; Perm.)	<i>Resolution..., 1991</i>
Brachiopods (S. Primorye; Perm.)	<i>Resolution..., 1991</i>
Bryozoans (S. Primorye; Perm.)	<i>Resolution..., 1991</i>
Corals (S. Primorye; Perm.)	<i>Kossovaya, 2005; Resolution..., 1991</i>
Far Northeast Russia (Lt. Paleoz.)	
Kolimo - Omolonsk region (Perm-Carb.)	
Kolimo - Omolonsk regional stage (Horizon) (Perm-Carb)	
Kolimo-Omolonsk regional series (Super-horizon) (Perm.)	
Kolimo - Omolonsk stage (Horizon) (Perm-Carb)	
Kolimo-Omolonsk regional substage (Sub-horizon)	
Conodonts (Kolimo - Omolonsk; Carb.)	
Conodont zones (Kolimo - Omolonsk; Carb.)	<i>Gagiev, 1995</i>
Conodont subzones (Kolimo-Omolonsk)	<i>Gagiev, 1995</i>
Ammonoids (Kolimo - Omolonsk; Perm-Carb)	<i>PERM = Ganelin et al., 2001, 2003; CARB = Resolutions..., 2003</i>
Ammonoids (Kolimo-Omolonsk; Perm.)	<i>PERM = Ganelin et al., 2001, 2003; CARB = Resolutions..., 2003</i>
Benthic Foraminifers (Kolimo - Omolonsk; Perm-Carb)	<i>PERM = Karavaeva B. Ganelin et al., 2001, 2003; CARB = Resolutions..., 2003; Gagiev, 1995</i>
Benthic Foraminifer zones (Kolimo-Omolonsk)	<i>PERM = Karavaeva B. Ganelin et al., 2001, 2003; CARB = Resolutions..., 2003; Gagiev, 1995</i>
Brachiopods (Kolimo - Omolonsk; Perm-Carb)	<i>PERM = Ganeliu et al., 2001; 2003; CARB = Ganelin, 1996; Resolutions..., 2003</i>
Brachiopod zones (Kolimo-Omolonsk)	<i>PERM = Ganeliu et al., 2001; 2003; CARB = Ganelin, 1996; Resolutions..., 2003</i>
Brachiopod genus-zone (Kolimo-Omolonsk)	<i>Ganeliu et al., 2001; 2003</i>
Pelecypods (Kolimo - Omolonsk; Perm-Carb)	<i>PERM = Ganeliu et al., 2001; 2003; CARB = Ganelin, 1996; Resolutions..., 2003</i>
Pelecypod zones (Kolimo-Omolonsk; Perm)	<i>Byakov, 2000</i>
Pelecypod subzones (Kolimo-Omolonsk)	<i>Maitaia bella</i>
Tabulata (Kolimo - Omolonsk; Carb.)	<i>Gagiev, 1995</i>
Rugose Corals (Kolimo - Omolonsk; Carb.)	<i>Kropacheva, Onoprienko in: Gagiev, 1995</i>
NE Russia (Devon.)	
NE Russia Stage (Horizon) (Dev.)	
NE Russia Sub-Horizon (Dev.)	
Conodonts (NE Russia, Dev.)	<i>Gagiev, 1995, 1996; Resolitious MSK..., 2003</i>
Brachiopods (NE Russia, Dev.)	<i>Baranov, 1991; Resolitious MSK..., 2003</i>
Tabulate Corals (NE Russia, Dev.)	<i>Alkhovik, 1986; Alkhovik, Baranov, 2001</i>
Rugose Corals (NE Russia, Dev.)	<i>Alkhovik, Baranov, 2001</i>

Russian Early Paleozoic

International and Russian Standards (E. Paleozoic)

Standard Biostratigraphic Zones (Silurian)

Graptolite MASTER (Silurian)
 Conodont standard (Silurian)
 Chitinozoan standard (Silurian)
 Vertebrate standard (Silurian)

Silurian Times, 1995; Verniers et al., 1995
Melchin et al., 1996; Melchin et al. in: Gradstein et al., 2004; Koren', Suyarkova, 2004
Silurian Times, 1995; Verniers et al., 1995
Silurian Times, 1995; Verniers et al., 1995
Silurian Times, 1995; Verniers et al., 1995

Ordovician Zonal Standards

Master Scale (age control)
 Ordovician International Stage
 Graptolite MASTER (Ordovician) – Australasia
 Graptolites of North-Atlantic province (Ordovician)
 British Ordovician Stage (Russian version)
 Graptolite zone (Great Britain, Ordov.)
 Graptolite subzone (GB, Ordov.)
 Graptolites (Baltoscandia, Ordov.)
 Conodont standards (Ordovician)
 Conodonts (Midcontinent, Ordov.)
 Conodonts (North Atlantic, Ordov.)

ICS/IUGS ratified decisions -- www.stratigraphy.org
Gradstein et al., eds, 2004

General Stratigraphy Scale, 2004; Decree MCK ..., 2006
Gradstein et al., eds, 2004
Gradstein et al., eds, 2004
Cooper et al. in Webby et al., eds, 2004

Gradstein et al., eds, 2004
Gradstein et al., eds, 2004

Cambrian standards (ICS and Russia)

Global and TimeScale Creator reference standards for Cambrian
 International Chronostrat and Age control (Camb.)
 Cambrian Series
 Cambrian Stage
 Primary Zone for age scaling
 (S.China trilobite; SSF)
 TimeScale Creator Russian region reference columns (Cam)

Russian standards for Cambrian regional stages and biostratigraphic zones
Chen and Babcock, 2007; Concise GTS
Chen and Babcock, 2007; Concise GTS
Chen and Babcock, 2007; Concise GTS
Chen and Babcock, 2007; Concise GTS
Chen and Babcock, 2007; Concise GTS

TSC Regional (Siberia, Camb.)	<i>Chen and Babcock, 2007; Concise GTS</i>
TSC Regional (Kazakhstan, Camb.)	<i>Chen and Babcock, 2007; Concise GTS</i>
TSC Zone (Siberia conodonts, etc.; Camb.)	<i>Chen and Babcock, 2007; Concise GTS</i>
Russian standards for Cambrian regional stages and biostratigraphic	<i>Resolutions MCK (1983, 1997)</i>
Russian Cambrian Series [Otdel]	<i>Resolutions MCK (1983, 1997)</i>
Russian Cambrian Stage [Yaris]	<i>Resolutions MCK (1983, 1997)</i>
Trilobites and Small Shelly Fossils (SSF) standard (Russia;	<i>Resolutions MCK (1983, 1997)</i>
Conodont standard (Russia; Camb.)	<i>Resolutions MCK (1983, 1997)</i>
Archeocyathid standard (Russia; Camb.)	<i>Resolutions MCK (1983, 1997)</i>
European and SW Russia (E. Paleoz.)	
North Caucasus (Silurian)	<i>Regional stratigraphic scheme, 2001 Decree MSK..., 2002</i>
N. Caucasus Regional Stage (Horizon)	<i>Regional stratigraphic scheme, 2001 Decree MSK..., 2002</i>
Graptolites (N. Caucasus; Silur.)	<i>Regional stratigraphic scheme, 2001 Decree MSK..., 2002</i>
Conodonts (N. Caucasus)	<i>Regional stratigraphic scheme, 2001 Decree MSK..., 2002</i>
Kaliningrad (Silurian)	<i>Koren', Suyarkova, Zagorodnykh, 2005</i>
Kaliningrad Regional Stage (Horizon)	<i>Koren', Suyarkova, Zagorodnykh, 2005</i>
Graptolites (Kaliningrad)	<i>Koren', Suyarkova, Zagorodnykh, 2005</i>
East-European Platform (E. Paleoz.)	
East-European Platform regional stages (E. Paleoz.)	
EEP Regional Series (Super-Horizon)	<i>Stratig. Scheme of Ural, 1993</i>
EEP Regional Stage (Horizon)	<i>SILUR = Stratig. Scheme of Ural, 1993; CAMB = Resolutions ..., 1986; Volkova, 1990; Volkova, Kiryanov, 1995; Mens, Bergstrom, Landzen, 1987</i>
Trilobites and SSFs (EEP; Camb.)	
Trilobite and SSF zone (EEP)	<i>Resolutions ..., 1986; Volkova, 1990; Volkova, Kiryanov, 1995; Mens, Bergstrom, Landzen, 1987</i>
Trilobite subzone (EEP)	<i>Resolutions ..., 1986; Volkova, 1990; Volkova, Kiryanov, 1995; Mens, Bergstrom, Landzen, 1987</i>
Graptolites (EEP; E. Paleoz.)	
Graptolite zones (central or general EEP)	<i>SILUR = Stratig. Scheme of Ural, 1993; Sakmarsko-Lemvin. Zones; ORDOV (Moscow region) = Sennikov, Obut, 2002</i>
Graptolites (EEP; Leningrad; Ordov.)	<i>Karen, Talmacheva, 2002</i>
Conodonts (EEP; E. Paleoz.)	<i>T.Yu. Tolmacheva, 2005</i>
Brachiopods (EEP; E. Paleoz.)	
Brachiopod Zone (EEP; Silur.)	<i>Modzalevskaya, 1997; Beznosova, 2000</i>
Brachiopod Subzone (EEP; Silur.)	<i>Modzalevskaya, 1997; Beznosova, 2000</i>
Ostracods (EEP; Silur.)	<i>Abushik, 1997</i>
Tabulate Corals (EEP; Silur.)	
Tabulate zone (EEP; Silur.)	<i>Stratig. Schemes of Urals, 1993; Yu.v. Zaika, 2005</i>
Tabulate subzone (EEP; Silur.)	<i>Stratig. Schemes of Urals, 1993; Yu.v. Zaika, 2005</i>
Rugose Corals (EEP; Silur.)	<i>Stratig. Schemes of Urals, 1993</i>
Chitinozoans (EEP; Ordov.)	
Chitinozoan zone (EEP; Moscow; Ordov.)	<i>Sennikov, Obut, 2002</i>
Chitinozoan subzone (EEP; Ordov.)	<i>Sennikov, Obut, 2002</i>
Acritarchs (EEP; Camb.-Ordov.)	
Acritarchs (EEP; Leningrad; Ordov.)	<i>Raevskaya, 1999</i>
Acritarch complex (EEP; Camb.)	<i>Resolutions ..., 1986; Volkova, 1990; Volkova, Kiryanov, 1995; Mens, Bergstrom, Landzen, 1987</i>
West Urals and West Arctic (E. Paleoz.)	
Novaya Zemlya (E. Paleoz.)	
Novaya Zemlya Regional Stage (Horizon)	
Trilobites (Novaya Zemlya; Camb.)	<i>Materials and Resolutions ..., 1994</i>
Graptolites (Novaya Zemlya)	<i>Sobolevskaya, Koren', 1997</i>
Brachiopods (Novaya Zemlya; Silur.)	<i>Modzalevskaya, 1989</i>
Ostrocods (Novaya Zemlya; Silur.)	<i>Abushik, 1997</i>
East Taimyr (E. Paleoz.)	
Tamir Regional Stage (Horizon)	
Graptolites (Taimir)	<i>SILUR = Reg. Stratigr. Scheme. 1983; R.F. Sobolevskaya, 2005; ORDOV = R.F. Sobolevskaya, 2005</i>
Siberian Basin and Platform (E. Paleoz.)	
Urals - east slope (E. Paleoz.)	
E. Urals Regional Stage (Horizon; Silur. & Camb.)	
Graptolites (E. Urals)	<i>Stratig. Schemes of Urals, 1993</i>
Brachiopods (E. Urals; Silur.)	<i>Stratig. Schemes of Urals, 1993</i>
Brachiopod subzone (E. Urals)	<i>Stratig. Schemes of Urals, 1993</i>
Crinoids (E. Urals)	<i>Stratig. Schemes of Urals, 1993</i>
Tabulate Corals (E. Urals)	<i>Stratig. Schemes of Urals, 1993</i>
Rugose Corals (E. Urals)	<i>Stratig. Schemes of Urals, 1993</i>
Rugose Coral subzone (E. Urals)	<i>Stratig. Schemes of Urals, 1993</i>
Trilobites and Archeocyathids (E. Urals)	<i>Materials and Resolutions ..., 1994</i>
East Siberia (Silur.)	
E. Siberia Regional Stage (Horizon)	
Graptolites (E. Siberia)	<i>T.V. Lopushinsleaya, 2005</i>
Brachiopods (E. Siberia)	<i>T.V. Lopushinsleaya, 2005</i>
Ostrocods (E. Siberia)	<i>Bazareva, 1982; Abushik, Modzalevskaya, 2000</i>
Ostrocod subzone (E. Siberia)	<i>Bazareva, 1982; Abushik, Modzalevskaya, 2000</i>
Siberian Platform (Ordov.)	
Siberia Regional Stage (Horizon; Ordov.)	<i>Resolution ..., 1983</i>
Graptolites (Siberia; Ordov.)	<i>A.V. Kanygin et. al., 2005</i>
Conodonts (Siberia; Ordov.)	<i>A.V. Kanygin et. al., 2005</i>

Brachiopods (Siberia; Ordov.)	<i>A.V. Kanygin et al., 2005</i>
Brachiopod subzone (Siberia; Ordov.)	<i>A.V. Kanygin et al., 2005</i>
Trilobites (Siberia; Ordov.)	<i>A.V. Kanygin et al., 2005</i>
Ostrocods (Siberia; Ordov.)	<i>A.V. Kanygin et al., 2005</i>
Siberian Platform (Camb.)	
East and North Siberia (Camb.)	
E. Siberia Regional Stage (Horizon)	<i>West of Verkhoyan'ya = Deepwater shelf and slope facies</i>
Trilobites (E. Siberia)	<i>Resolutions ..., 1983; Cambrian of Siberia, 1992</i>
Brachiopods (E. Siberia)	<i>Resolutions ..., 1983; Cambrian of Siberia, 1992</i>
North Siberian Platform (Camb.)	<i>Resolutions ..., 1983; Cambrian of Siberia, 1992</i>
N. Siberia Regional Stage (Horizon)	<i>Shallow- and deep-water shelf carbonate facies in transitional-type profiles</i>
Trilobites (N. Siberia)	<i>Varlamov et al., 2005</i>
Sette-Daban, Kyllakhsian highlands (Camb.)	<i>Varlamov et al., 2005</i>
Trilobites (center Sette-Daban)	<i>Shallow- and deep-water shelf carbonate facies in transitional-type profiles</i>
Trilobites (west Sette-Daban)	<i>Gogin, Popov, 1994</i>
NW Siberian Platform (Camb.)	<i>Gogin, Popov, 1997</i>
NW Siberia Regional Stage (Horizon)	<i>(Plus part of central) = Shallow-water carbonate facies</i>
Trilobites (NW Siberia)	<i>Resolutions ..., 1983; Yarushoe ..., 1984; Pel'man et al., 1992; Varlamov et al., 2005</i>
Archeocyathids (NW Siberia)	<i>Resolutions ..., 1983; Yarushoe ..., 1984; Pel'man et al., 1992; Varlamov et al., 2005</i>
Brachiopods (NW Siberia)	<i>Resolutions ..., 1983; Yarushoe ..., 1984; Pel'man et al., 1992; Varlamov et al., 2005</i>
Small Shelly Fossils (NW Siberia)	<i>Resolutions ..., 1983; Yarushoe ..., 1984; Pel'man et al., 1992; Varlamov et al., 2005</i>
South Siberian Platform (Camb.)	<i>(Plus, part of central and north) = facies ????????</i>
S Siberia Regional Stage (Horizon)	<i>Resolutions ..., 1983; Yarushoe ..., 1984</i>
Trilobites (S. Siberia)	<i>Resolutions ..., 1983; Yarushoe ..., 1984</i>
Khabarovsk Krai (north) (Camb.)	<i>Resolutions ..., 1994</i>
Trilobites (K. Krai)	<i>Resolutions ..., 1994</i>
Archeocyathids (K. Krai)	<i>Resolutions ..., 1994</i>
South-central Russia (SW Siberia; E. Paleoz.)	
Altay mountains region (E. Paleoz.)	
Mt. Altay Regional Stage (Horizon)	<i>Sennikov, Obut, 2002</i>
Graptolites (Mt. Altay)	<i>Sennikov, 1996</i>
Graptolite subzones (Mt. Altay)	<i>Sennikov, 1996</i>
Conodonts (Mt. Altay; Ordov.)	<i>Sennikov, Obut, 2002</i>
Conodont subzone (Mt. Altay; Ordov.)	<i>Sennikov, Obut, 2002</i>
Sayan-Altay region (Cambrian)	<i>Resolutions ..., 1983; Rozanov, Zhuravlev, 1995</i>
Salair, Batenevsk ridge, Kuznetsk Alatau	<i>Resolutions ..., 1983; Romanenko, 1985; Petrunina, 2005; Rozanov, Zhuravlev, 1995</i>
Sayan-Altay Regional Stage (Horizon)	<i>Resolutions ..., 1983; Romanenko, 1985; Petrunina, 2005; Rozanov, Zhuravlev, 1995</i>
Trilobites (Salair)	<i>Resolutions ..., 1983; Romanenko, 1985; Petrunina, 2005; Rozanov, Zhuravlev, 1995</i>
Archeocyathids (Salair)	<i>Resolutions ..., 1983; Romanenko, 1985; Petrunina, 2005; Rozanov, Zhuravlev, 1995</i>
West S:	<i>Resolutions ..., 1983; Rozanov, Zhuravlev, 1995</i>
Archeocyathids (W. Sayan)	<i>Resolutions ..., 1983; Rozanov, Zhuravlev, 1995</i>
Sayan-Baikal region (Buryatia) (E. Paleoz.)	<i>Dalmatov et al., 1975; Dalmatov, 1990</i>
Sayano-Baikal Regional Stage (Horizon)	<i>Dalmatov et al., 1975; Dalmatov, 1990</i>
Trilobites (Sayano-Baikal)	<i>Dalmatov et al., 1975; Dalmatov, 1990</i>
Archeocyathids (Sayano-Baikal)	<i>Dalmatov et al., 1975; Dalmatov, 1990</i>
Far Southeast Russia (E. Paleoz.)	
Bureinsky massif (Cambrian)	<i>Resolutions ..., 1994</i>
Archeocyathids (Bureinsky massif)	<i>Resolutions ..., 1994</i>
Khanka massif (Cambrian)	<i>Resolutions ..., 1994</i>
Archeocyathids (Khanka massif)	<i>Resolutions ..., 1994</i>
Priargunie (Cambrian)	<i>Resolutions ..., 1994</i>
Trilobites (Priargunie)	<i>Resolutions ..., 1994</i>
Eastern part of Mongolia-Okhotsk (Cambrian)	<i>Resolutions ..., 1994</i>
Far East Regional Stage (Horizon)	<i>Resolutions ..., 1994</i>
Archeocyathids (Mongolia-Okhotsk)	<i>Resolutions ..., 1994</i>
Far Northeast Russia (E. Paleoz.)	
NE Rus block	<i>Reginal stratigr. Scheme, 2002; Decree MCK..., 2003</i>
Graptolites (NE Russia)	<i>Reginal stratigr. Scheme, 2002; Decree MCK..., 2003</i>
Graptolites (Kolimo-Omolonskiy region)	<i>R.F. Sobolevskaya, 2005</i>
Conodonts (Verkhoyano-Chukotskiy region)	<i>Tarabukin, 2005</i>
Brachiopods (NE Russia)	<i>Reginal stratigr. Scheme, 2002; Decree MCK..., 2003</i>
Tabulate Corals (NE Russia)	<i>Reginal stratigr. Scheme, 2002; Decree MCK..., 2003</i>
Rugose Corals (NE Russia)	<i>Reginal stratigr. Scheme, 2002; Decree MCK..., 2003</i>