

Legend to the 1:35M Tectonic Map of the World (draft) (updated 31.04.2021)

CONTINENTS and OCEAN-CONTINENT TRANSITIONAL ZONES

OCEANS, INLAND AND MARGINAL SEAS

Fold belts and areas

Orogenic cycle	Ages of tectonic unit boundaries (Ma)	Age intervals of tectonic events	Age of tectonic events (according to the time of consolidated crust formation)	Orogenesis phases their age intervals (Ma)
CENOZOIC (Alpine-Himalayan)		Oligocene - Quaternary P ₃ -Q	C ₃	C
	34	middle Eocene - Oligocene P ₂ ² -P ₃ ¹	C ₂	
	40	Upper Cretaceous - middle Eocene K ₂ -P ₂ ²	C ₁	
	80			
LATE MESOZOIC		Lower - Upper Cretaceous K ₁₋₂	LM ₂	LM
	105	Lower Cretaceous K ₁	LM ₁	
EARLY MESOZOIC	133	Lower Jurassic Lower Cretaceous J ₁ -K ₁	EM ₂	EM
	190	Traissic - J ₁ -J ₁ ¹ Lower Jurassic	EM ₁	
LATE PALEOZOIC (Variscan)	252	Permian Traissic T ₁	LP ₁	LP
	323	Upper Devonian Lower Carboniferous D ₁ -C ₁	LP ₁	
EARLY PALEOZOIC (Caledonian)	410	Silurian-Middle Devonian D ₂	EP ₂	EP
	443	Cambrian - Ordovician C-O	EP ₁	
NEOPROTEROZOIC	542	Neoproterozoic	P ₃	P
PALEO-MESOPROTEROZOIC	950-50	Mesoproterozoic	P ₂ ²	P
			P ₂ ¹	
ARCHEAN-PALEOPROTEROZOIC	1800	Paleoproterozoic	P ₁	P
	2500	Neoproterozoic	A ₃	A
	2800	Mesoarchean	A ₂	
	3200	Paleoarchean	A ₁	
	3600	Eoarchean	A ₁	

Indicators of tectonic settings

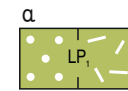
Phanerozoic granite



S-granite

I-granite

A-granite



Marginal continental and island volcanic arcs, syn-shear volcanic areals
a - molasse, b - volcanic and volcanogenic-molasse complexes (*background colour corresponds to the age of tectonic unit*)



Areals of trap volcanism
(*background colour corresponds to the age of tectonic unit*)



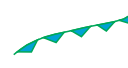
Early Precambrian greenstone belts



Granite gneiss belts and granitization



Ophiolite:
a) Late Precambrian - Paleozoic,
b) Paleozoic - Cenozoic



Sutures, deformed accretion prisms of old subduction zones (*background colour corresponds to the age of tectonic unit*)



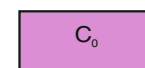
Rifts, aulacogenes
(*rifts age is shown in colour*)



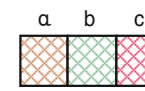
Boundary between Mesozoic and Cenozoic depressions on old platforms

Platform sedimentary covers

GTS-2020	Ancient platform covers	Cover of young platforms and regions of old platforms
Ceno-zoic	B	A
Meso-zoic		
Paleo-zoic		
Protero-zoic	0 2 4 8 12 m thickness	0 2 4 8 12 m thickness



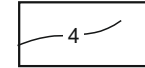
Precambrian platforms including orogenic and volcanic complexes



Covers deformed: a) in the Late Paleozoic, b) in the Mesozoic, c) in the Cenozoic



Fold and orogenic complexes (undifferentiated) on shelves

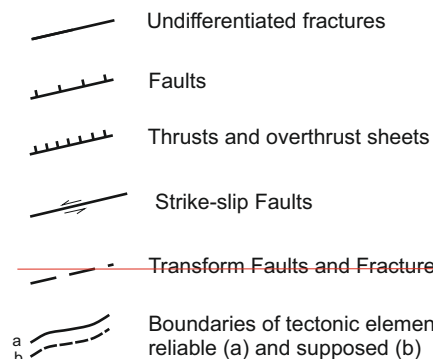


isopachs (cover thickness, km)



Forearc regions and accretion prisms

STRUCTURAL ELEMENTS



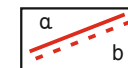
Lithosphere plate boundaries



Convergent (subductions)



Transform?



Divergent (spreading)
(a - identified, b - overlapped)



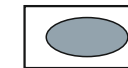
Recent volcanoes

Oceanic crust

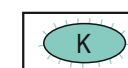
GTS-2020			Age of oceanic crust		
Era- them	Sys- tem	Series			
Cenozoic	Quat.	Holocene	pq		
		Pleistocene			
	Neogene	Pliocene	m	n	
		Miocene			
	Paleogene	Oligocene	g		
		Eocene	e		
		Paleocene	p		
	Mesozoic	Cretaceous	Upper Cretaceous	k2	k
Lower Cretaceous			k1		
Jurassic		Upper Jurassic	j3		
		Middle Jurassic	j2		



Outlines of basins and the largest depressions



Oceanic islands, sea mounts, plateaus



Sea mounts of recent and extinct island arcs

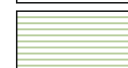
Microcontinents and submerged blocks with continental crust



Precambrian



Paleozoic



Mesozoic



Cenozoic



of uncertain age