

Geologic time scale



Geological Era	System/ Period	Series/ Epoch	Stage/ Age	mya ¹
Phanerozoic	Cenozoic	Quaternary	Holocene	present
			Neoglyacial	0.0040
			Notingian	0.0030
			Oreoglyacial	0.0117
			Upper	0.128
		Pleistocene	Chilman	0.714
			Cadman	1.8
			Geoman	2.58
			Placemian	3.8
			Zarman	5.333
	Neogene	Miocene	Mesman	7.246
			Turkman	11.63
			Sensaman	13.82
			Langman	15.58
			Burdigalian	20.44
		Oligocene	Aquitanian	23.03
			Chattian	27.82
			Rupelian	33.9
			Pratoman	37.71
			Bartonian	41.2
	Paleogene	Eocene	Lutetian	47.8
			Tyrrean	56
			Therapsian	58.2
			Selandian	61.8
			Danian	66
		Upper	Maastrichtian	70.1 ± 0.2
			Cenomanian	85.6 ± 0.2
			Santonian	86.5 ± 0.3
			Coniacian	89.8 ± 0.2
			Turonian	93.9
	Mesozoic	Cretaceous	Cenomanian	100.5
			Albian	113
			Aptian	121.4
			Barremian	125.77
			Hauterivian	130.8
		Lower	Valanginian	138.8
			Berriasian	145
	Mesozoic	Jurassic	Tithonian	145
			Kimmeridgian	148.2 ± 0.7
			Oxfordian	154.8 ± 0.8
			Callovian	161.3 ± 1
			Bathonian	165.2 ± 1.1
		Middle	Staponian	168.2 ± 1.2
			Aalenian	170.8 ± 0.8
			Toarcian	174.7 ± 0.8
			Platensian	184.2 ± 0.2
			Sinemurian	188.8 ± 0.3
	Mesozoic	Lower	Sinemurian	199.5 ± 0.3
			Hettangian	201.4 ± 0.2
			Phasian	208.5
			Isurian	227
			Gargasian	227
		Upper	Ludman	242
			Aymian	247.2
			Oremanian	261.2
			Induan	251.82 ± 0.24
			Changhsingian	254.14 ± 0.07
Phanerozoic	Paleozoic	Permian	Wuchiapingian	258.17 ± 0.21
			Capitanian	264.28 ± 0.16
			Wardian	268.9 ± 0.4
			Roadian	273.01 ± 0.14
			Kungurian	280.5 ± 0.8
		Orcadian	Artinskian	290.1 ± 0.28
			Sakmarian	293.02 ± 0.17
			Asselien	298.9 ± 0.10
			Gzhelian	300.7 ± 0.1
			Kapovichian	307 ± 0.1
	Paleozoic	Carboniferous	Moscovian	315.2 ± 0.2
			Bashkirian	323.2 ± 0.4
			Serpukhovian	330.9 ± 0.2
			Visian	346.7 ± 0.4
			Thurnian	358.9 ± 0.4
		Permian	Artinskian	251.82 ± 0.24
			Changhsingian	254.14 ± 0.07
			Wuchiapingian	258.17 ± 0.21
			Capitanian	264.28 ± 0.16
			Wardian	268.9 ± 0.4
	Paleozoic	Devonian	Famennian	364.9 ± 0.4
			Frasnian	372.2 ± 1.8
			Givetian	382.7 ± 1.8
			Eifelian	387.2 ± 0.8
			Emasian	393.9 ± 1.2
		Lower	Pragian	407.6 ± 0.8
			Ludlowian	416.4 ± 0.8
			Ludlowian	419.2 ± 0.2
			Pragian	429 ± 2.3
			Ludlowian	426.4 ± 0.8
Phanerozoic	Precambrian	Silurian	Gornian	427.4 ± 0.3
			Homertian	430.5 ± 0.7
			Shalmsian	433.4 ± 0.8
			Telychian	438.5 ± 1.1
			Aeronian	440.8 ± 1.2
		Llandovery	Phruddian	443.8 ± 1.5
			Wenlock	445.2 ± 1.4
			Katian	452 ± 0.7
			Sandbian	456.4 ± 0.8
			Ordovician	467.3 ± 1.1
	Precambrian	Ordovician	Ordovician	472 ± 1.4
			Pragian	477.2 ± 1.4
			Thurnian	485.4 ± 1.8
			Stage 10	489.5
			Jiangshanian	494
		Furongian	Fujian	497
			Guthengian	500.3
			Oranian	504.5
			Wulian	508
			Stage 4	514
	Precambrian	Maotian	Stage 3	521
			Stage 2	529
			Foranian	536.8 ± 0.2
			Foranian	536.8 ± 0.2
			Foranian	536.8 ± 0.2
			Foranian	536.8 ± 0.2
			Foranian	536.8 ± 0.2
			Foranian	536.8 ± 0.2
			Foranian	536.8 ± 0.2
			Foranian	536.8 ± 0.2
	Precambrian	Proterozoic	Ediacaran	544 ± 1.2
			Ediacaran	544 ± 1.2
			Ediacaran	544 ± 1.2
			Ediacaran	544 ± 1.2
			Ediacaran	544 ± 1.2
		Mesoproterozoic	Stonian	1000
			Stonian	1000
			Stonian	1000
			Stonian	1000
			Stonian	1000
	Precambrian	Paleoproterozoic	Stonian	1000
			Stonian	1000
			Stonian	1000
			Stonian	1000
			Stonian	1000
		Archean	Stonian	1000
			Stonian	1000
			Stonian	1000
			Stonian	1000
			Stonian	1000

¹millions of years ago.

²Both the Mesozoic and Permian time units are formally designated as subperiods within the Carboniferous Period.

³Several Cambrian unit age boundaries are informal and are awaiting refined definitions.

⁴The Hadean Era is an informal interval of geologic time.

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Precambrian Geology Geochronology Of M

Geological Survey of Canada



Precambrian Geology Geochronology Of M:

Main Tectonic Events and Metallogeny of the North China Craton Mingguo Zhai, Yue Zhao, Taiping

Zhao, 2016-07-25 This book focuses on the metallogeny and main tectonic events of the North China Craton from early Precambrian to Phanerozoic. It covers the Archean crustal growth, Paleoproterozoic rifting, subduction, collision processes, Great Oxidation Event, Meso-Neoproterozoic multiple rifting, Phanerozoic reworking of the North China Craton, as well as metallogeny related to above different processes. The North China Craton is one of the oldest cratons in the world. It has experienced a complex geological evolution since the early Precambrian and carries important records of secular changes in tectonics and metallogeny. It provides a systematic review and new results on the growth and evolution of the North China Craton and metallogeny. It will be of broad interest to the earth scientists working in the fields of economic geology, geochemistry and tectonics of the North China Craton and eastern Asian. The Geology of the Arabian-Nubian Shield

Zakaria Hamimi, Abdel-Rahman Fowler, Jean-Paul Liégeois, Alan Collins, Mohamed G. Abdelsalam, Mohamed Abd EI-Wahed, 2021-07-30 This richly illustrated book reviews the geology, tectonics and mineralization of the Arabian Nubian Shield (ANS) in 27 chapters. It starts with an examination of the ANS lithospheric scale features, explores Mesoproterozoic units and deals with the ANS oceanic stage, Arc volcanism and plutonism, post-collision basins and volcanics are discussed as well as the younger granitoid magmatism and the deformation history of the ANS. The book provides information on ANS glacial stages and late magmatism. Chapters are devoted to review the transition between ANS and the reworked continent to its south. Finally, it discusses how ANS structures influenced the overall East African Rift System. *Tectonic Setting of Faulted Tertiary Strata Associated with the Catalina Core Complex in Southern Arizona* William R. Dickinson, 1991. Mid-Tertiary strata exposed as tilted homoclines along the flanks of the San Pedro trough and across broad uplands north of the Catalina core complex are assigned to the following formations, each of which includes informal local members and facies: a) Mineta Formation, mid-Oligocene redbeds including both conglomeratic fluvial and finer grained lacustrine deposits; b) Galiuro Volcanics, including lavas and domes, air fall and ash flow tuffs and intercalated volcanoclastic strata of late Oligocene to earliest Miocene age; c) Cloudburst Formation, also of late Oligocene and earliest Miocene age but including a sedimentary upper member of conglomeratic strata as well as a volcanic lower member correlative with part of the Galiuro Volcanics; and d) San Manuel Formation, composed of lower Miocene alluvial fan and braidplain deposits that display contrasting clast assemblages in different areas of exposure. Generally correlative Oligocene-Miocene strata exposed south of the Catalina core complex are assigned to the Pantano Formation, which contains similar lithologic components. Less deformed Neogene strata of post-mid-Miocene basin fill are assigned to the Quiburis Formation along the San Pedro trough, but stratigraphic equivalents elsewhere lack adequate nomenclature. High benchlands mantled by paleosols mark the highest levels of Neogene aggradation. Successive stages of subsequent erosional dissection are recorded by multiple terrace levels incised

into basin fill Key exposures of syntectonic mid Tertiary sedimentary sequences in several local subareas reveal typical structural and stratigraphic relationships Multiple fault blocks expose pre Tertiary bedrock overlain by tilted mid Tertiary strata confined to intervening half grabens Bounding syndepositional faults dip southwest and associated homoclines dip northeast Fanning dips and buttress unconformities reflect progressive tilt and burial of eroding fault blocks Dips of block bounding faults are inversely proportional to the ages of the faults Steeper dips for younger faults suggest either progressive erosion of successive listric faults or progressive rotation of successive planar faults Uniformly moderate to steep dihedral angles between fault surfaces and offset homoclinal bedding imply that the faults dipped more steeply near the surface when syntectonic mid Tertiary strata were subhorizontal Although the inference of listric faulting best links apparent strands of the Catalina detachment system the alternate interpretation of rotational normal faulting is compatible with local structural relationships including tilt of porphyry copper orebodies Within the San Pedro trough multiple homoclines of mid Tertiary strata are exposed locally in tilt blocks exhumed by Neogene erosion from beneath nearly flat lying basin fill of the Quiburis Formation Faults bounding the mid Tertiary exposures include backtilted strands of the Catalina detachment system somewhat younger listric or rotational normal faults and steeper basin range normal faults that display offsets both synthetic and antithetic to the flanks of the San Pedro trough In Cienega Gap flanking the Tucson Basin multiple tilt blocks of the Pantano Formation form part of the upper plate of the Catalina detachment system Initial construction of alluvial fans by generally westward paleoflow was followed by ponding of lacustrine environments along the foot of secondary breakaway scarps that also generated massive megabreccia deposits In summary syntectonic Oligocene to Miocene sedimentation succeeded a prominent pulse of polymodal mid Tertiary volcanism and was coeval with mylonitic deformation and detachment faulting along the flank of the Catalina core complex The headwall rupture for the detachment system migrated westward from an initial position along the range front of the Galiuro Mountains After mid Miocene time accumulation and subsequent dissection of essentially undeformed basin fill was accompanied by basin range block faulting The most challenging structural issue is whether fault strands of the Catalina detachment system are interconnected or are disconnected rotational segments

Results of Bedrock Mapping of the Darby Lake-Arrowsmith River North Map Areas, Central Rae Domain, Nunavut [electronic Resource]

Hamish A. I. Sandeman, 2005 This paper provides an overview of the geology of the Darby Lake and Arrowsmith River area located south west of Committee Bay Nunavut The area is divided into three north east trending sub domains all of which are dominated by granitoid rocks Characteristic rock types from the area are described along with the phases of regional deformation and metamorphism in the area Implications of the findings for mineral deposits are briefly discussed

Proterozoic East Gondwana Masaru Yoshida, Brian F. Windley, Somnath Dasgupta, 2003 This volume focuses on Late Mesoproterozoic to early Cambrian events related to Gondwana assembly and break up The nineteen papers provide a comprehensive review including advanced knowledge and

new data from all critical areas of East Gondwana The recent knowledge of the evolution of East Gondwana which was regarded as an integral part of the Mesoproterozoic supercontinent Rodinia is the major theme of the volume which is reinforced by highlighting this radical and new understanding of the evolution of this region

Geological Survey of Canada, Current Research (Online) no. 2004-C1 , **Geological Survey of Canada, Current Research (Online) no. 2009-1** , **Freiberger Forschungshefte** ,2000 **Radiogenic Age and Isotopic Studies** Geological Survey of Canada,1997 Collection of reports presenting data from the Geochronology Section Reports make full presentation of the data relate these to field settings and make comparatively short interpretations Other geochronological and isotope data produced in the laboratory but published in outside journals or separate GSC publications are summarized at the end of the report

Isotopengeochemie Joachim Pilot,1970 *Bulletin of the Geological Society of Finland* ,2007 **Studies in Colorado Field Geology** Rudy C. Epis,Robert J. Weimer,1976 **Earth's Oldest Rocks** Martin J. Van Kranendonk,Vickie Bennett,Elis Hoffmann,2018-09-26 Earth s Oldest Rocks Second Edition is the only single reference source for geological research of early Earth This new edition is an up to date collection of scientific articles on all aspects of the early history of the Earth from planetary accretion at 4 567 billion years ago Ga to the onset of modern style plate tectonics at 3 2 Ga Since the first edition was published significant new advances have been made in our understanding of events and processes on early Earth that correspond with new advances in technology The book includes contributions from over 100 authors all of whom are experts in their respective fields The research in this reference concentrates on what is directly gleaned from the existing rock record to understand how our planet formed and evolved during the planetary accretion phase formation of the first crust the changing dynamics of the mantle and style of tectonics life s foothold and early development and mineral deposits It is an ideal resource for academics students and the general public alike Advances in early Earth research since 2007 based primarily on evidence gleaned directly from the rock record More than 50% of the chapters in this edition are new and the rest of the chapters are revised from the first edition with more than 700 pages of new material Comprehensive reviews of areas of ancient lithosphere from all over the world and of crust forming processes New chapters on early solar system materials composition of the ancient atmosphere hydrosphere and overviews of the oldest evidence of life on Earth and modeling of early Earth tectonics

Journal of Mining and Geology ,1996 *Terra Antartica* ,2007 **Bibliography and Index of Geology** ,1990 **Paper -** ,1935 **Geology of the Mineral Deposits of Australia and Papua New Guinea** Francis Everard Hughes,1990 *Canadian Journal of Earth Sciences* ,2006 *Geological Society of America Bulletin* Geological Society of America,1975 Vols 1 44 include Proceedings of the annual meeting 1889 1933 later published separately

Precambrian Geology Geochronology Of M: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. Precambrian Geology Geochronology Of M : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Precambrian Geology Geochronology Of M : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Precambrian Geology Geochronology Of M : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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