

Flat pebble conglomerates from subtidal settings (Fig. 2)

AGE	LOCATION	FORMATION	SHELF SETTING	PROPOSED PROCESS	AUTHOR(S)
Mesoproterozoic	China, Hebei Province	Gaoyuzhuang Formation	Subtidal within storm wave base	storms	Luo <i>et al.</i> 2014
Proterozoic, Pre-Marinoan glaciation	NW Canada, Mackenzie Mountains	Keele Fm	mid to outer ramp	storms	Day <i>et al.</i> 2004
Vendian	Gourma, West Africa		slope	bottom currents'	Bertrand-Sarfati & Moussine-Pouchkine 1983
Ediacaran	South Africa	Swartpunt Fm	Low energy deeper ramp	storm	Narbonne <i>et al.</i> 1997
Ediacaran	Canadian Arctic	Gametrail Fm	subtidal ramp	storms	MacNaughton <i>et al.</i> 2008
Ediacaran	Kazakhstan	Kyrshabakty Formation	shallow carbonate platform	high energy events	Heubeck <i>et al.</i> 2013
Ediacaran - Lower Cambrian	Oman	Ara Group	carbonate platform		Grotzinger & Al-Rawahi 2014
Lower Cambrian	South Australia	Sellick Hill Formation	subtidal	storms	Mount & Kidder 1993
Lower Cambrian	W Mongolia	Bayan Gol Fm, Zavkhan Basin	shallow subtidal	storms	Kruse <i>et al.</i> 1996
Lower Cambrian	South China	Shuijingtuo Fm	subtidal		Ishikawa <i>et al.</i> 2008
Middle Cambrian	Canadian Arctic		ramp		Dewing & Nowlan 2012
Middle Cambrian	British Columbia, Canada	Jubilee Fm			Pope 1990

Middle Cambrian	Argentina	La Laja Fm	subtidal shelf	tsunamis	Pratt & Bordonaro 2007
Middle Cambrian	Australia	Ranken Lst	low energy shallow subtidal	storms	Kruse 1996
Middle Cambrian	Wyoming, USA	Upper Gros Ventre Shale			Csonka 2009
upper Middle Cambrian	W Utah, USA	upper Wheeler, Marjum fms	middle carbonate belt - subtidal shelf		Robison 1964
Middle-Upper Cambrian	NW China		Supratidal to subtidal fpc	storms	Liang <i>et al.</i> 1993
Middle Cambrian - Lower Ordovician	Siberia	Ust'-Brus, Labaz, Orakta, Kulyumbe, Ujgur and Iltyk fms			Kouchinsky <i>et al.</i> 2008
Upper Cambrian	NW Siberia	Chopko Fm, Chopka River	carbonate platform, turbidites	submarine landslides	Varlamov <i>et al.</i> 2006
Upper Cambrian	N China	Gushan, Chanshang formations	subtidal shelf	storms	Ding <i>et al.</i> 2008; Meng <i>et al.</i> 1997
Upper Cambrian	China, Shandong Province	Chaomidian Formation (Furongian)	shallow subtidal		Lee <i>et al.</i> 2010; Chen 2014; Chen <i>et al.</i> 2009, Chen <i>et al.</i> 2010; Van Loon <i>et al.</i> 2013
Upper Cambrian	S Korea	Hwajeol Formation	subtidal, relatively deep		Kim & Lee 2000
U Cambrian	Western USA		Outer detrital belt (subtidal lagoon)	Storms	Sepkoski 1982
Upper Cambrian	Rocky Mts USA	Snowy Range Fm (Sunwaptan-L Skullrockian)	Inner detrital belt, subtidal	Storms (leading to slope failure)	Brett <i>et al.</i> 1983; Myrow <i>et al.</i> 2004; Myrow <i>et al.</i> 2012
Upper Cambrian	Montana USA	Deadwood Fm	subtidal shelf	tsunamis	Pratt 2002

Upper Cambrian	Wyoming, USA	Snowy Range Fm - Upper Deadwood Formation	subtidal intrashelf basin	storms	Saltzman 1999; Myrow <i>et al.</i> 2004
Upper Cambrian	Wyoming, USA			fpc produced by dewatering	Wiison 1985; Kozub 1997
Upper Cambrian	Virginia, USA	Nolichucky Formation	shallow subtidal basin facies	storms	Markello & Read 1981, 1982
Upper Cambrian	Nevada and Utah, USA	SPICE interval	Intrashelf basin	storms	Saltzman <i>et al.</i> 1998
Upper Cambrian	Montana USA	Grove Creek, Snowy Range, Maurice formations			Dorf & Lochman 1940
Upper Cambrian	Maryland, USA	Conococheague Limestone	sand shoal environments		Demicco 1985; Demicco <i>et al.</i> 1991
Upper Cambrian	Virginia, USA	Conococheague Limestone, Copper Ridge Dolomite	Group I outer shelf	storms	Whisonant 1987
Upper Cambrian	Tennessee, USA	Maynardsville Fm, Conosauga Group	subtidal		Glumac and Walker 1997
Upper Cambrian	Wisconsin and Minnesota, USA	Tunnel City Group	shallow subtidal	storms	Eoff 2014
Upper Cambrian	California, USA	Nopah Fm (Sunwaptan); also Desert Valley Formation, Whipple Cave Formation, Notch Peak Formation, Ajax Dolomite	shallow subtidal	storms	Shapiro & Awramik 2006
Upper Cambrian	S Alberta, Canada	Bison Creek and Mistaya formations	shallow subtidal shelf	storms	Westrop 1989

Upper Cambrian - Lower Ordovician	Alberta , Canada	Survey Peak Fm; Ibexian-Tremadoc			Ji & Barnes 1996
Upper Cambrian - Lower Ordovician	Mexico	Tiñu Fm	subtidal dysoxic shelf	debris flows	Landing <i>et al.</i> 2007
Upper Cambrian - Lower Ordovician	N China	Fengshan Formation - Yeli Formation	subtidal shelf		Yang <i>et al.</i> 2002
Upper Cambrian - Lower Ordovician	China, Jilin Province	candidate GSSP Xiaoyangqiao	subtidal	storms	Chen <i>et al.</i> 1988
Upper Cambrian - Lower Ordovician	Utah, USA; Nevada USA	Notch Peak and House Limestone fms; Whipple Cove and House Limestone fms	shoals on shallow carbonate shelf		Popov <i>et al.</i> 2002; Cook & Taylor 1975, 1977
Upper Cambrian - Lower Ordovician	Colorado, USA	Dotsero Fm, Manitou Fm			Berg 1960
Lower and Upper Cambrian, Lower Ordovician	Appalachians , USA	Dunham Fm; Pine Plains Fm; Ogdenburg and Tribes Hill fms		storms	Friedman 1994
Upper Cambrian - Lower Ordovician	Siberia	Nya sequence	shallow carbonate platform		Dronov <i>et al.</i> 2009
Upper Cambrian - Lower Ordovician	Mid-East Korea	Choson Supergroup	subtidal	storm, diagenetic lts	Kwon <i>et al.</i> 2002
Lower Ordovician	Newfoundland	Watt's Bight and Boat harbour fms	deep subtidal to peritidal	storms	Pruss <i>et al.</i> 2010

Lower Ordovician	Utah, USA	Pogonip Group - Notch Peak Formation, House Limestone, Fillmore Formation, and Wah Wah Limestone	shallow subtidal to peritidal		Pruss <i>et al.</i> 2010
Lower Ordovician	S Korea	Dumugol Fm	shallow to deep ramp	storms	Lee & Kim 1992
Lower Ordovician	Korea	Mungok Fm	subtidal shelf	storms	Kim and Lee 1995; Choi, Kim & Lee 1993
Lower Ordovician	NY, USA	Tribes Hill Fm	intertidal to supratidal	desiccation and high energy events (seismic /storm /tsunami?)	Braun & Friedman 1969
Lower Ordovician (Tremadoc)	Pingquan, Hebei Province, N China		shallow subtidal to shaly basinal		Liu & Zhan 2009
Lower Ordovician	Pingquan, Hebei Province, N China and Xingshan, Hubei Province, S China		Lower Tremadoc shallow subtidal, Upper Tremadoc shallow to deep subtidal		Liu 2009
Lower Ordovician	NW Hubei	Nantsinkian-lower Dawan fms; Tremadoc - early Floian	shallow marine carbonate platform; shallow to deeper subtidal		Liu <i>et al.</i> 2011
Lower Ordovician	Nevada, USA	Ninemile Shale	within storm wave base	storms	Sprinkle & Guensburg 1995

Lower Ordovician	Utah and Nevada, USA	Kanosh Shale	Intrashelf basin	storms	Wilson <i>et al.</i> 1992
Lower Ordovician	Utah	Fillmore Formation	storm dominated shelf	storms	Sprinkle & Guensburg 1995; Dattilo 1993; Benner <i>et al.</i> 2004
Upper Silurian	Gotland, Sweden	upper Hemse-Eke fms	subtidal to very shallow, microbial shoals	anachronistic facies - suppressed burrowing	Cherns 1982, 1983; Calner 2005
Upper Silurian	Somerset Is., Arctic Canada	Reach Bay Fm	Subtidal within storm wave base	storms	Jones & Dixon 1976
Upper Devonian (Frasnian)	Holy Cross Mts, Poland		Shallow subtidal	storms or tsunamis	Kazmierczak & Goldring 1978
Lower Triassic	S Turkey	Dienerian Fm	storms affecting shallow shelf	anachronistic facies - suppressed burrowing	Pruss <i>et al.</i> 2006
Lower Triassic	South China; North Italy		storm-dominated shelf to deep basin; mid ramp carbonates	anachronistic facies - suppressed burrowing	Wignall & Twitchett 1999
Lower Triassic	SW USA	Moenkopi - Union Wash formations	subtidal to deep	anachronistic facies - suppressed burrowing	Pruss <i>et al.</i> 2005; Woods 2009
Lower Jurassic	Portugal	Achada Dolomites and Limestones	Subtidal	dip-slip movements causing tsunamis	Kullberg <i>et al.</i> 2001

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