

Table S6 Global  $p$  CO<sub>2</sub> data of the Latest Triassic - Early Jurassic by stomatal method

Formation or identifier	Location	Age	Age (Ma) by authors	Age (Ma) adjusted	Samp-les	SI	$\sigma$ ( $\pm$ )	SR	$p$ CO <sub>2</sub> : SI/SR	Mean $p$ CO <sub>2</sub>	Species for stomata	Reference
Höganäs and Hörö Sandstone	Scania, S Sweden	Rha		202.9		8	0.30		SI	1200		McElwain et al., 1999
		Rha		202.7		7	0.30		SI	1290		
		Rha		202.4		9.2	0.30		SI	1260		
		Rha				8.9	0.90		SI			
		Rha		202.1		9.8	0.40		SI	1320		
		Rha				10.7	0.30		SI			
		Rha		201.8	2	7.9	0.20		SI	1590		
		Rha			2	9.9	1.10		SI			
		Rha	205.7	201.3	2	8.1	0.60		SI			
		Het	205.7	201.2	2	3.8	0.30		SI	2160		
		Het		201.1	2	3.9	0.40		SI	1980		
		Het		201.0	2	10.1	1.10		SI	840		
	Jameson Land, Greenland			202.2	?	4.70	0.30		SI	1443		
		M. Het	201.2	200.0	6	6.80	0.70		SI	997	" <i>Ginkgoites</i> " <i>obovatus</i>	
		Het			2	10.1	0.40		SI			
		E. Het	200.2	201.0	18	8.50	0.60		SI	798	" <i>Ginkgoites</i> " <i>acosmia</i>	
	Yorkshire, England		183.0	183.1					SI	950		McElwain et al., 2005
			183.0	183.0					SI	1050		
			187.6	183.0					SI	490		
			203.0	200.0					SI	1194		Retallack, 2001
			203.0	200.0					SI	1994		
beds of Postera, Contorta,	Germanic Basin,	Rha		201.4	4	4.26		2.66	SR	1596	<i>Lepidopteris ottonis</i> and	Bonis et al., 2010
		Rha		201.8	4	3.57		3.17	SR	1902		
		Rha		201.9	3	2.53		4.47	SR	2682		
		Rha		202.0	2	2.45		4.63	SR	2778		
		Rha		202.0	4	3.35		3.38	SR	2028		
		Rha		202.0	7	3.16		3.58	SR	2148		
		Rha		202.1	6	3.54		3.20	SR	1920		
		Rha		202.2	2	3.12		3.63	SR	2178		
		Rha		202.5	5	2.92		3.88	SR	2328		
?	Astartekløft in Jameson Land, East Greenland	Rha		202.7	7	2.47		4.58	SR	2748		
		Het		198.0		5.39	0.43		SR	1354	<i>Ginkgo</i>	
		Het		199.0		5.78	0.24		SR	1223		
		Het		199.8		2.59	0.55		SR	2971		
		Rha		201.4		3.18	0.16		SR	2184		
		Rha		201.8		4.11	0.30		SR	1673		
		Rha		202.0		8.19	0.81		SR	932		
		Rha		202.3		6.20	0.40		SR	1266		
Lower Marburg Subgroup	Eeastern Australia	Late Pls	184.0	184.0	10	8.88	0.48		SI	856		Steinthorsdottir and Vajda, 2015
Yima	Henan, China	E. Toa		182.0	13	5.60	1.90	3.60	SR	2160	<i>Ginkgo yimaensis</i>	Chen et al., 2001
Dzungaria	Xinjiang, China	L. Sin		192.0	28	6.70	0.04	1.40	SR	840	<i>Ginkgo obrutschewi</i>	
	Suiskiou, China	E. Rha	204.4	205.0	3	7.00	0.30		SI	969	cf. <i>Lepidopteris ottonis</i>	Sze, 1953
	Astarte River, Greenland	E. Rha	202.2	204.0	6	6.90	2.10		SI	983	<i>Lepidopteris ottonis</i>	Townrow 1960
	Bjuv, Sweden	M. Rha	203.5	204.5	1	8.90	0.00		SI	762	" <i>Ginkgoites</i> " <i>obovatus</i>	Florin 1937
	Bjuv, Sweden	M. Rha	202.2	204.0	4	7.50	1.00		SI	904	<i>Lepidopteris ottonis</i>	Dobruskina 1980; Lindström & Erlström, 2006

	Billesholm, Sweden	L. Rha	203.2	203.2	5	6.00	0.60	SI	1130	<i>"Ginkgoites" troedssoni</i>	Lundblad 1959; Lindström & Erlström, 2006
	NW Scania Sweden	L. Rha	203.2	203.2	25	5.90	0.20	SI	1149	<i>"Ginkgoites" troedssoni</i>	Beerling et al. 1998;
		L. Rha	203.2	203.2	25	6.50	0.40	SI	1043	<i>"Ginkgoites" marginata</i>	Lindström and Erlström, 2006
		E. Het	199.2	200.0	25	5.70	0.30	SI	1189		
x	Komló Hungary	E. Sin		199.0	1	5.40	0.20	SI	1256	<i>"Ginkgoites" marginata</i>	Barbacka & Weislo-
		E. Sin		198.0	1	7.50	0.40	SI	904	<i>"Ginkgoites" minuta</i>	Luraniec 2002
	Gradzanowo, Poland	E. Rha		203.0	1	7.10	0.60	SI	955	<i>"Ginkgoites" acosmia</i>	
	Bayreuth, Germany	M. Het	198.2	200.0	2	7.20	0.50	SI	942	<i>Ginkgo taeiata</i>	Collinson et al. 1998
	Yagnob, uzbekistan	E. Sin	205.5	198.0	2	7.60	0.60	SI	892	<i>Ginkgo ferganensis</i>	Khudaiberdyev et al. 1971
	Sulyakta, Uzbekistan	E. Baj	165.8	170.0	4	7.10	0.70	SI	955	<i>Ginkgo suluktensis</i>	
Yaojia	Aganzhen, China	M. Pls		186.0	13	5.80	0.20	4.50 SR	1252	<i>Ginkgo aganzhenense</i>	Xie et al., 2006
Ya'an	Yaojie, China	E. Aal		173.0	20	6.10	0.81	4.00 SR	1190	<i>Ginkgo huttoni</i>	
	Heilgersdorf, Germany	Rha	204.4	204.0	1	6.80		SI	997	<i>Lepidopteris</i> sp. indet.	Kelber & van Konijnenberg-van Cittert, 1997
	Hällviken, Sweden	Rha	202.2	202.0	3	6.30	1.90	SI	1076	cf. <i>"Lepidopteris" ottonis</i>	Lundblad, 1949
	Bosarp, Sweden	Rha	202.2	202.0	1	8.70		SI	779	<i>"Lepidopteris" ottonis</i>	
	Stabbarp	Rha	202.2	202.0	1	7.30	?	SI	929	<i>"Ginkgoites" marginata</i>	Lundblad, 1959
	Hälsingborg, Sweden	Pli-Toar	190.4	182.0	3	6.10	1.30	SI	1111	<i>"Ginkgoites" marginata</i>	
	Rawicz, Poland	Rha	202.2	202.0	2	8.10	0.40	SI	837	<i>"Lepidopteris" ottonis</i>	Piwocki, 1970
	Astarte, Greenland	Rha	202.2	202.0	3	7.30	?	SI	929	<i>"Ginkgoites" obovatus</i>	Harris 1935
	Vardekløft, Greenland	Liassic	198.2	195.0	2	4.00	?	SI	1695	<i>"Ginkgoites"</i>	
	Pennyhilm and Whitby, England	Aal	177.5	172.0	2	3.80	?	SI	1784	<i>Ginkgo</i>	Harris 1974
	Anina, Romania	Het-Sim	194.4	199.0	6	6.00	1.60	SI	1130	<i>Ginkgo marginata</i>	Czier, 1998
	Derwent River, England	Ael	176.5	172.0	1	6.90	?	SI	983	<i>Ginkgo huttoni</i>	McElwain & Chaloner, 1996
Yanchang	Huating of Gansu, NW	T3	204.8	204.8		3.70		3.27 SR	1962	<i>Ginkgoites magnifolius</i>	Wu et al., 2016
Ya'an	Anganzhen of Gansu, China	J1dx	193.0	193.0		5.80		2.09 SR	1252	<i>Ginkgo aganzhenense</i>	Sun et al., 2007
		J2y2	183.0	183.0		6.10		1.98 SR	1190	<i>Ginkgo huttoni</i>	
		J2y4-5	171.0	171.0	15	3.83	0.30	3.16 SR	1896		
		J2y4-4	170.0	170.0	14	3.97	0.27	3.05 SR	1830		

Age adjustment by the International Chronostratigraphy Chart (Cohen et al., 2019)

SI, Stomatal index

SR, stomatal ratio

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