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Figure1

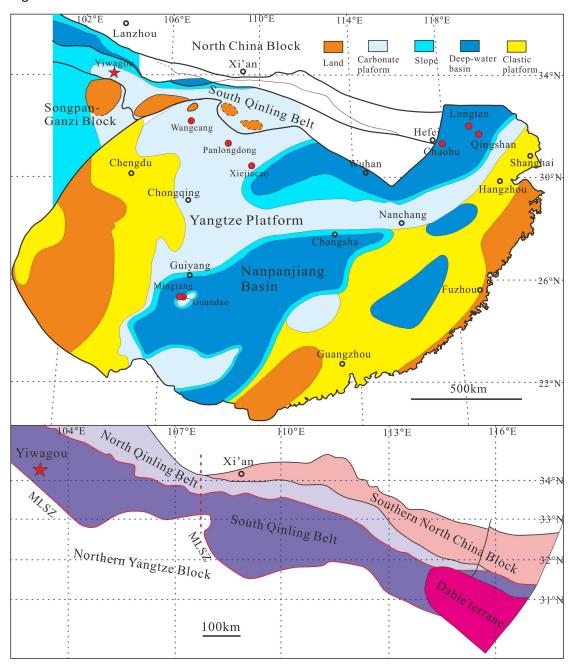


Figure2

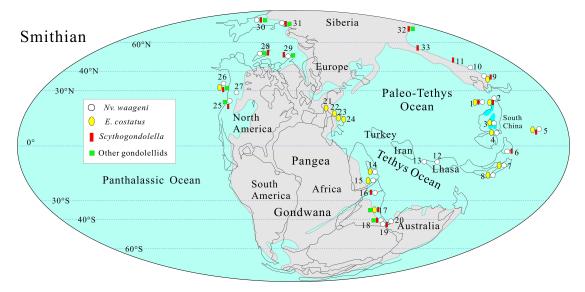


Figure3

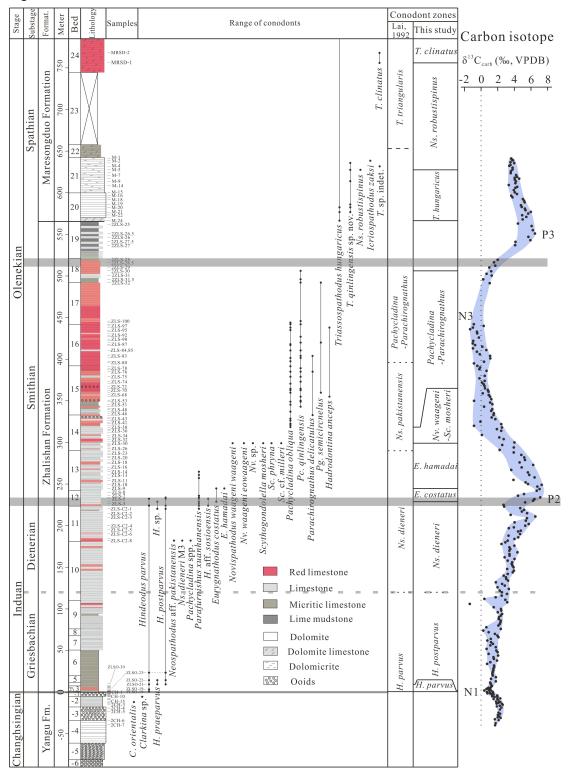


Figure4

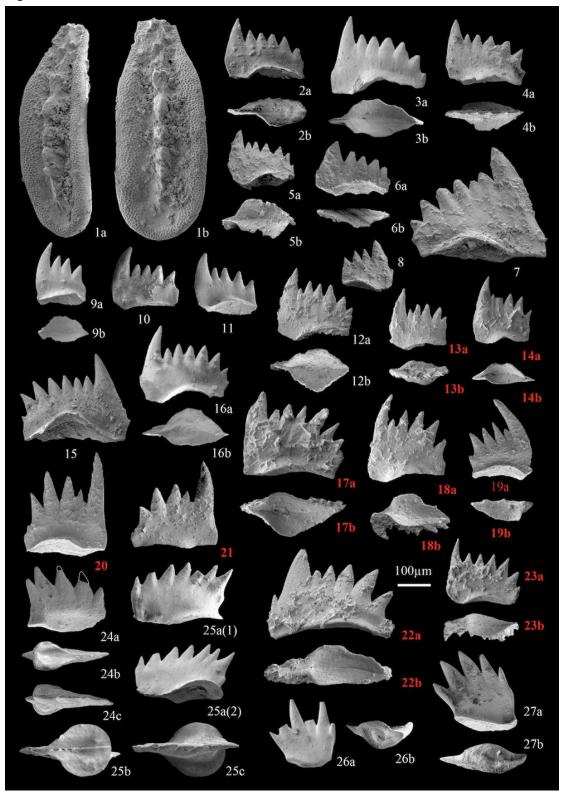


Figure5

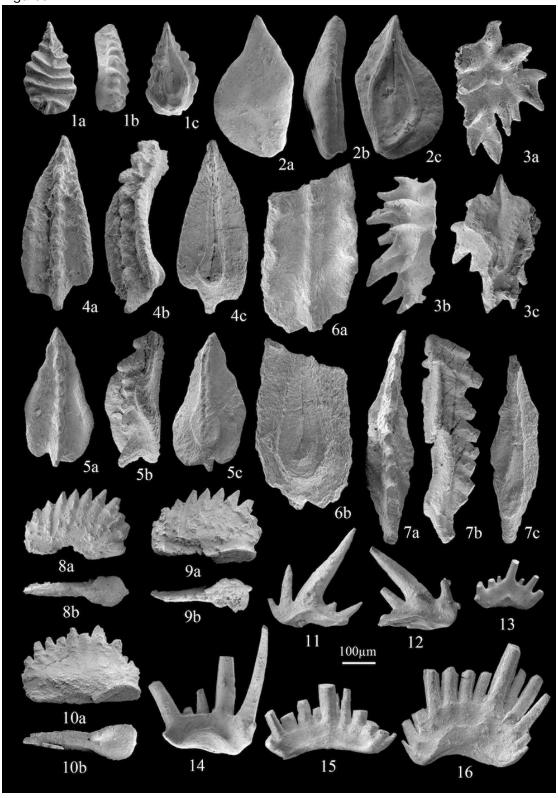


Figure6

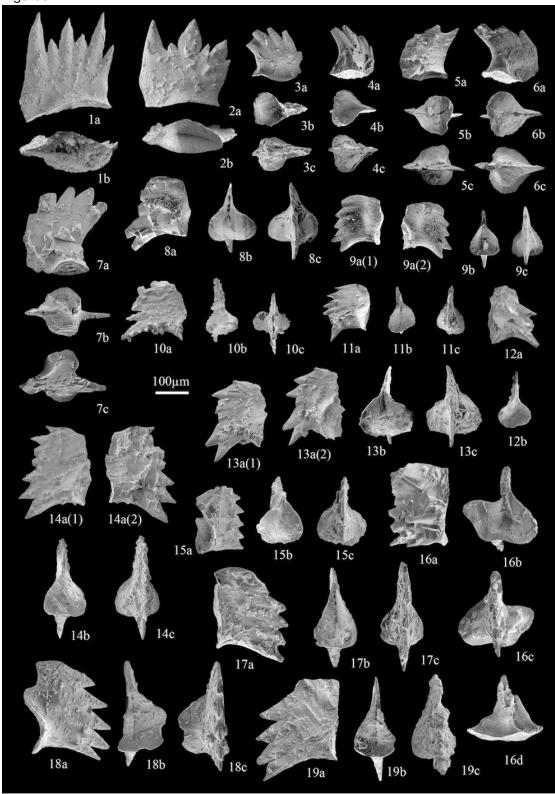


Figure7

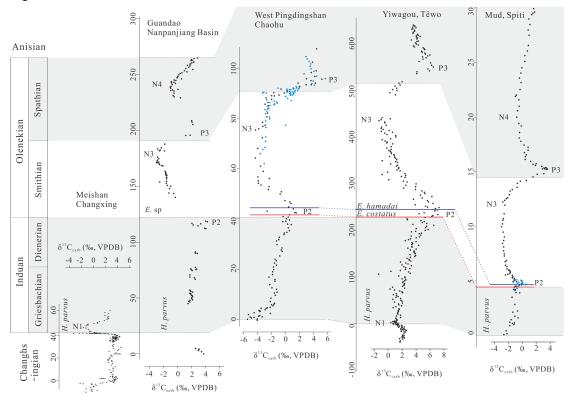


Table1

Series	D	ge e	Eastern Palaeo-Tethys					Western Palaeo -Tethys	Neo-Tethys	Panthalas		ıssa
	Stage	Substage	Yiwagou, So	uth Qinling	Meishan, Changxing	Chaohu	Nanpanjiang Basin	Slovenia	Spiti, India	Brit	tish Columbi	Japan Japan
	S	Su	This study	Lai, 1992	Zhang et al., 2007; Yuan et al., 2014	Zhao et al., 2007	Chen et al., 2015; Lehrmann et al., 2015	Kolar-Jurkovšek and Jurkovšek, 2015; Chen et al., 2016	Krystyn et al., 2004 Sun et al., 2021	Orchard and Tozer, 1997; Orchard, 2008; Orchard and Zonneveld, 2009		Koike, 1988; Zhang et al., 2019b; Maekawa et al., 2021
Lower Triassic			T. clinatus				Ch. gondolell -oides	T. triangularis	T. sosioensis			
			11.011111111111111111111111111111111111				T. triangularis	T. homeri-	T. triangularis			
		pathian	Ns. robustisp	T. triangul -aris		T. homeri	T. homeri	Ns. robustispinus		T. ex gr. homeri		T. homeri
			-inus					T. symmetricus	T. homeri			T. symmetricus
		Spa	T. hungaricus				I. collinsoni	T. hungaricus	Ic. collinsoni			Nv. brevissimus [Ic. collinsoni
	Olenekian					Nv. pingding -shanensis	Nv. pingdingsh -anensis	Pl. regularis Pl. corniger Ns. robustus	Ng. jubata			Nv. pingdingsh -anensis
	0		Pachycladina- Parachirognat -hodus	Pachycladina- Parachirogna thodus			Pachycladina- Parachirognathus		waageni Sc. milleri		Sc. miller	ri Sc. milleri
		Smithian	Nv. waageni			Nv. w. waageni	D. discreta Nv. w. waageni	Foliella gardenae	Ns. spi -Nv. w	geni	Sc. phryn	a Nv. ex gr.
		Smi	-Sc. mosheri			Nv. w. eowaageni	Nv. w. eowaageni		Nv. waageni- Ns. posterlong		Pu. meeki Sc. lachrym	waageni
			E. hamadai	Ns. pakistan				E. hamadai	-atus E. hamadai	Ν	-iformis	E. hamadai
			E. costatus	-ensis				E. costatus	E. costatus		B. nepalensi	E. costatus
	Induan	Dienerian Ns.		Ns. dieneri Ns. dieneri	Ns. cristagalli -N. dieneri	Ns. dieneri M3	Ns. cristagalli -E. costatus		B. nepalensis Ns. pakistanensis			
						Ns. dieneri M2	N	Ha. anceps	Ns. cristagalli			Ns. dieneri
			Ns. dieneri			Ns. dieneri M1	Ns. dieneri		Ns. dieneri			Tis. areneri
					Sw. kummeli	Sw. kummeli	Sw. kummeli		Sw. kummeli			1
		an	H. postparvus	C. tulongensi	C. tulongensis	Nc. krystyni	Nc. discreta	H. post Ha. aeq -parvus -uabilis	Nc. krystyni			H. postparvus
		chi			-C. planata		Nc. krystyni	I. staeschei-				?
		Griesbachian			I. isarcica		H. sosioensis	I. isarcica I. lobata	I. staeschei	Ng. carinata		I. isarcica
		Gri	H. parvus	H. parvus	I. staeschei H. parvus	H. typicalis	H. parvus	H. parvus	H. parvus			H. parvus

Table2

	Western Palaeo-Tethys							
South Qinling Pla	tform	Northern Yangtze Platform		Nanpanjiang Basin		Europe		
Genus	Species	Genus	Species	Genus	Species	Genus	Species	
Triassospathodus	hungaricus	1	1	1	0	1	1	
N	robustispinus	1	1	1	0	1	1	
Neospathodus	dieneri	1	1	1	ang Basin Species Genus 0 1]1	0	
	mosheri	1	0.5(Sc. aff. mosheri)	0	0		0	
Scythogondolella	cf. <i>milleri</i>	1	0.5(Sc. milleri)	10	0	10	0	
Novispathodus	waageni	1	1	1	1	0	0	
T .1 1	costatus	1	1	1	1	1	1	
Eurygnathodus	hamadai	1	1	11	1]1	1	
Parafurnishius	xuanhanensis	1	1	0	0	0	0	
7.T. 1 1	postparvus	1	1	1	1	1	1	
Hindeodus	parvus	1	1	1	1	1	1	
Similarity to SQP	100.0%	90.9%	71.0%	54.5%	57.1%	54.5%		