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Supplemental Material

Supplementary Text and Tables S1–S4.

Table S5.

Supplemental Material

This supplemental material includes the following three parts:

Part 1: Summary and sources of the reconstruction data used in Figure 1 (including Tables S1 to S4).
Part 2: Sources of data used in Figure 2
Part 3: Detrital zircon ages compiled in Figure 3 (Table S5)

Part 1: Summary and sources of the reconstruction data used in Figure 1 (Tables DR1-4)

Table. S1. Stratigraphic data

Location	Strata and sections	Age (Ma)	Stratigraphic comparison	Reference
Yangtze	Late Neoproterozoic to early Cambrian sections	ca. 590–543	Yangtze block has remarkably similar facies assemblages and carbonate platform architecture with NW India	Jiang et al. (2003)

Table. S2. Biogeography data

Location	Age	Species	Biogeographic affinity	Reference
Yangtze	Cambrian	trilobite	India	Peng et al. (2009)
Yangtze	Cambrian	brachiopod	NW India Karatau–Naryn terrane	Popov et al. (2015)
Yangtze	Cambrian	trilobite	NW India Karatau–Naryn	Álvaro et al. (2013)
Yangtze	early Cambrian	multiple species benthic faunas	Arabian sector NW India	Torsvik and Cocks (2013)
Yangtze	early Cambrian	multiple species	Himalaya (W India) Iran region	Burrett et al. (1990) Metcalfe (2013) Hughes (2016)

Table. S3. Tectono-magmatic records and detrital minerals

Location	Age	Data	Interpreted paleogeographic position/affinity	Reference
Yangtze	Ediacaran-Cambrian	detrital zircons	NW India	Yang et al. (2020)
Yangtze	Cambrian	detrital zircons	Turkey-Iran NW India	Chen et al. (2021)
Yangtze	Early Cambrian	detrital zircons	NW India	Gu et al. (2022) Han et al. (2022) Yao et al. (2022)
Cathaysia	Cryogenian (?) to Ediacaran	detrital zircons	Junction of E India, NW Australia and E Antarctica	Wang et al. (2018)
Cathaysia	Cryogenian (?) to Ediacaran	detrital zircons	W Australia and E Antarctica	Xue et al. (2019); (2021)
Cathaysia	Hornblendite (530 Ma)	metamorphic zircon	Belonging to Kuunga orogeny	Li et al. (2017)
Cathaysia	Cambrian	detrital zircons	Nexus between India, Antarctica and Australia	Xu et al. (2013)
Cathaysia	Cambrian	detrital zircons	N India	Yao et al. (2014)
Cathaysia	Ediacaran to Cambrian	detrital zircons	NE India	Qi et al. (2018; 2020)
Cathaysia	Cambrian	detrital monazite	NE India (Kuunga Orogen)	Xu et al. (2022)

Table S4. Paleomagnetic data

Sample location	Pole name	Formation	Age (Ma)	Plat (N)	Plong (E)	A_{95}	Interpreted paleolatitude	Reference
Yangtze	Є2	Douposi Fm.	510 ± 11	-51.3	166.0	6.8	Latitude of NW Australia	Yang et al. (2004)
Yangtze	DSTM3	Doushantuo Fm.	595 ± 22	31.3	169.8	4.1	Latitude of NW Australia	Jing et al. (2018)
Yangtze	DS3	Doushantuo Fm.	551.1 ± 0.7	25.9	185.5	6.7	23.5 ± 1.8° N Latitude of northern India	Zhang et al. (2015)
Yangtze	DST	Nantuo Fm. Doushantuo Fm.	636.3 ± 4.9	0.6	196.9	7.1	3.0±4.5° N Latitude of West Australia	Macouin et al. (2004)
Yangtze	Nantuo	Nantuo Fm.	636.3 ± 4.9	9.3	165.9	4.3	Latitude of NW Australia	Zhang et al. (2013)

Plat: latitude of the palaeopoles; Plong: longitude of the palaeopoles; A95: radius of circle with 95 per cent confidence about the palaeopole.

Part 2: Sources of data used in Figure 2

For India and Yangtze:

Tonian data: Wang et al. (2020b), Yang et al. (2022), Yao et al. (2019)
Cryogenian to Early Cambrian stratigraphy: Jiang et al. (2003), Wang et al. (2020b)
Early Cambrian stratigraphy in west Yangtze: Gu et al. (2022) and Yao et al. (2022)
Silurian stratigraphy in east Yangtze: Li et al. (2013)

For Tarim

Tonian to Ediacaran data: Zhang et al. (2023) and references therein, Wu et al. (2022) and references therein
Early Paleozoic stratigraphic data: He et al. (2016)

For West Cathaysia (modified from Wang et al., 2022)

Early Tonian arc/back-arc data: Wang et al. (2013)
Late Tonian arc/back-arc data: Jiang et al. (2019), Wang et al. (2020a)
Cryogenian to Ediacaran stratigraphy: Wang (2003), Qi et al. (2018; 2020)
Cambrian and Ordovician stratigraphy: BGMRFJ (1985); BGMRGD (1988); BGMRGX (1985); BGMRJX (1984)
~530 Ma metamorphic zircon age: Li et al. (2017)
Break between Ediacaran and Cambrian strata: from this study, Fig. 3D.

For Lhasa terrane

Tonian to Ediacaran magmatic data: Hu et al. (2018) and reference therein.
650 Ma HP granulite age data: Zhang et al. (2012)
Stratigraphic data: Dong et al. (2010), Hu et al. (2019), Zhou et al. (2019), Guo et al. (2017)

For North Australia

Tonian to early Paleozoic data (based on Georgina and Ord basin): Maidment et al. (2007), Yao et al. (2018)
Metamorphic data: Bagas (2004)

Part 3: Detrital zircon ages compiled in Figure 3 (Table S5, see separate Excel file).

Note 1: The Excel file includes detrital zircon age data from the late Neoproterozoic to Cambrian sequences from western Yangtze, southeastern Yangtze, northern India (Himalaya region), Tarim, West Cathaysia, Lhasa terrane, and north Australia. There are a total of 15 sheets in the Excel file, each corresponding to a part in Fig. 3.

Note 2: For Fig. 3, we use the $^{207}Pb/^{206}Pb$ ages for zircons older than ∼1.5 Ga and $^{206}Pb/^{238}U$ ages for those younger, following Spencer et al. (2016). As 1300 – 900 Ma is one of the main populations in our detrital zircon age data set, utilizing a cutoff age in this age range (e.g. 1.0 Ga) would not be practical. Age spectra are visualized using Kernel Density Estimation (densityplotter; Vermeesch, 2012), with bandwidth and bin width of 40 and 20, respectively.

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