

Supplemental Data File

Zhang FF et al., 2016

Neoproterozoic backarc basin on the southeastern margin of the Yangtze block during Rodinia assembly: New evidence from provenance of detrital zircons and geochemistry of mafic rocks

The accompanying pages include two appendix files: Appendix A is one figure showing the representative CL images of analyzed zircons; and Appendix B includes four tables showing the elemental and isotopic data.

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Appendix A: Supplementary figures:

Figure DR1. Representative cathodoluminescence (CL) images for zircons of this study. The $^{206}\text{Pb}/^{238}\text{U}$ ages are indicated for each spot analysis (solid circle). The scale bar is 50 μm .

Appendix B: Supplementary tables:

Table DR1. LA-ICP-MS U-Pb isotopic data for the detrital zircons from the Heshangzhen Group, South China.

Table DR2. Lu-Hf isotopes for detrital zircons from the Heshangzhen Group, South China.

Table DR3. SHRIMP and LA-ICP-MS zircon U-Pb dating results for the mafic rocks from the Xingzi and Zhoutan Groups, South China

Table DR4. Major and trace element analyses and Nd isotopic compositions for the mafic rocks within the Xingzi and Zhoutan Groups, South China.

Appendix A: Supplementary figure

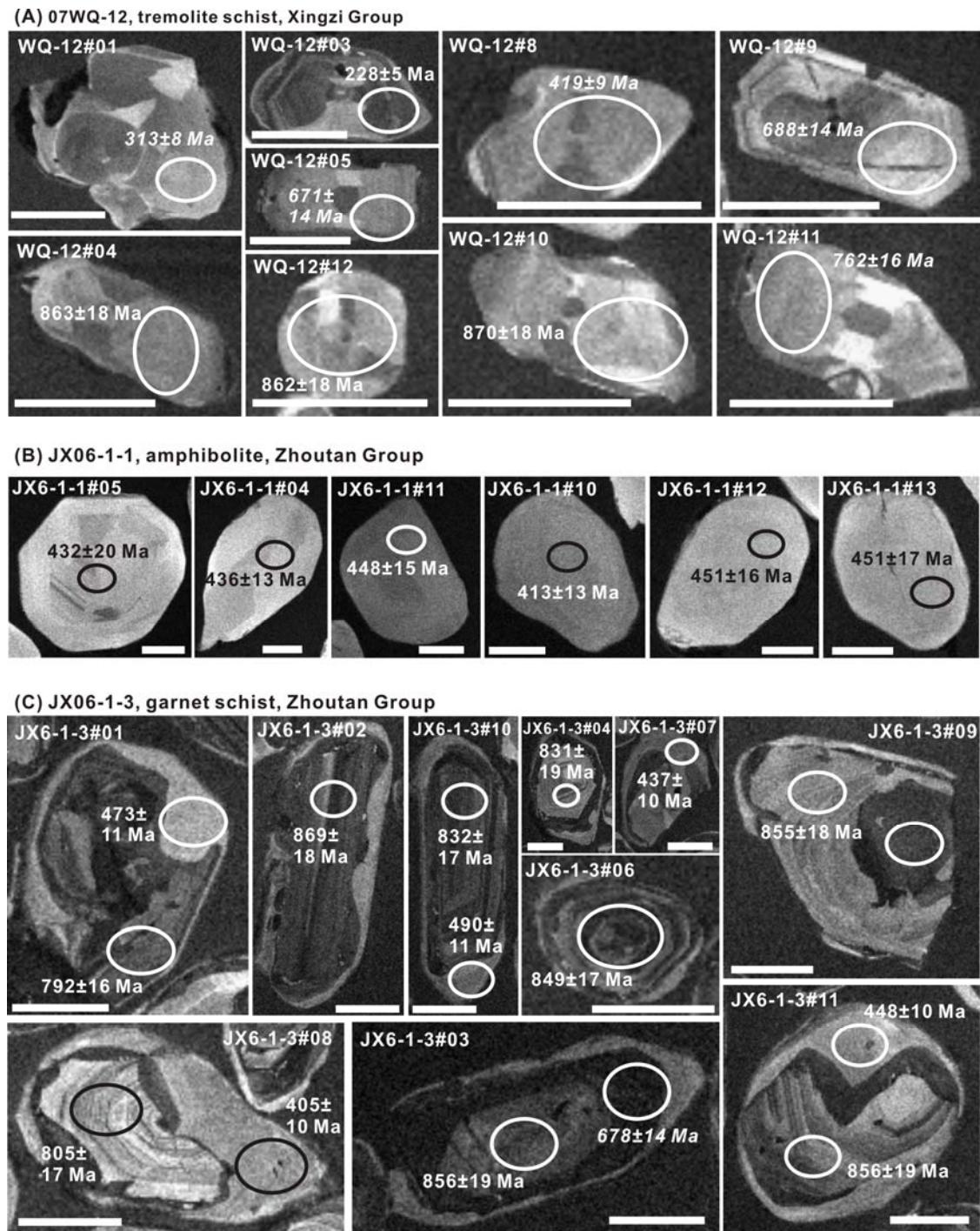


Figure DR1. Representative cathodoluminescence (CL) images for zircons of this study. The $^{206}\text{Pb}/^{238}\text{U}$ ages are indicated for each spot analysis (solid circle). The scale bar is 50 μm .

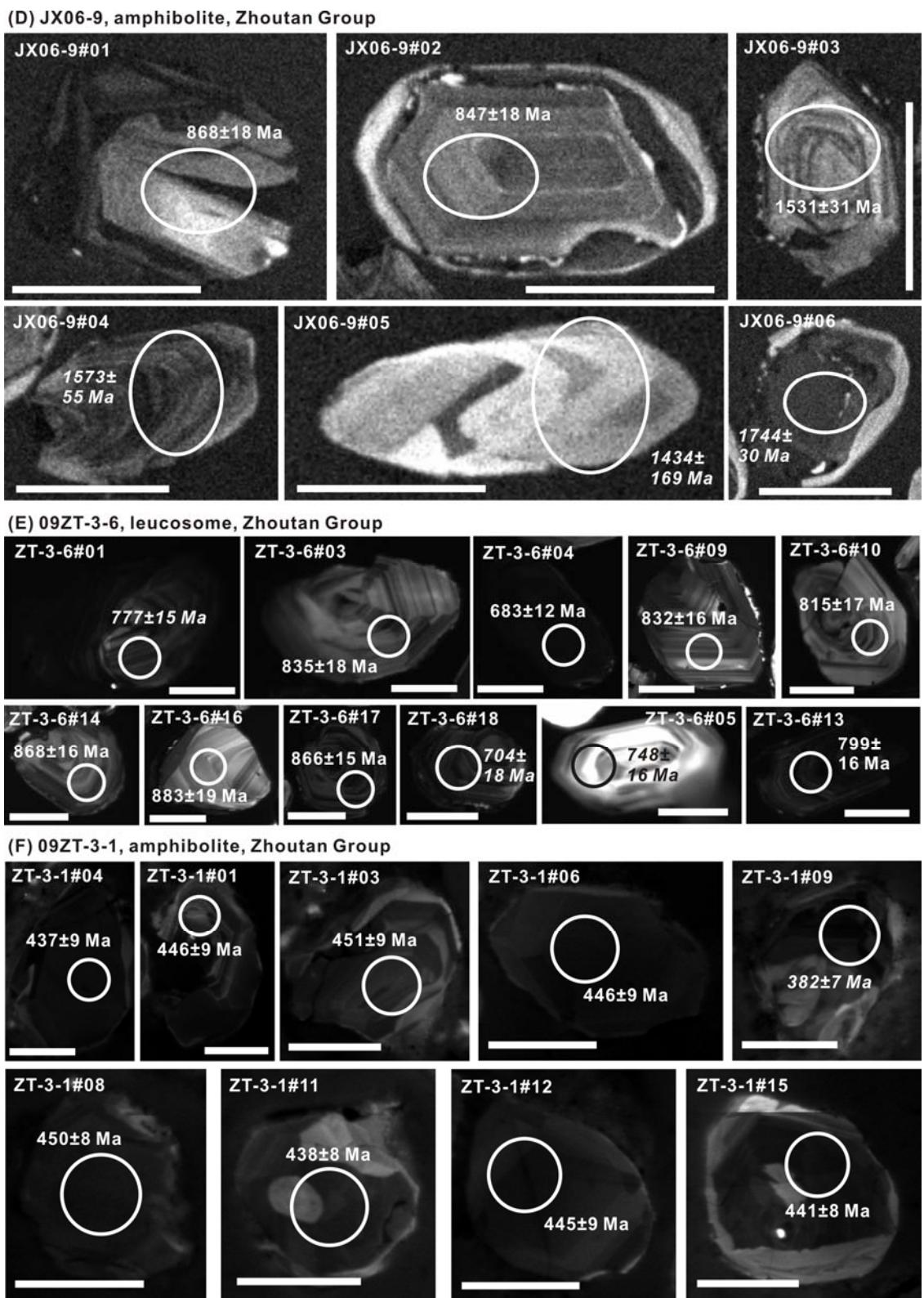


Figure DR1. (Continued)

(G) 09ZT-1-6, amphibolite, Zhoutan Group

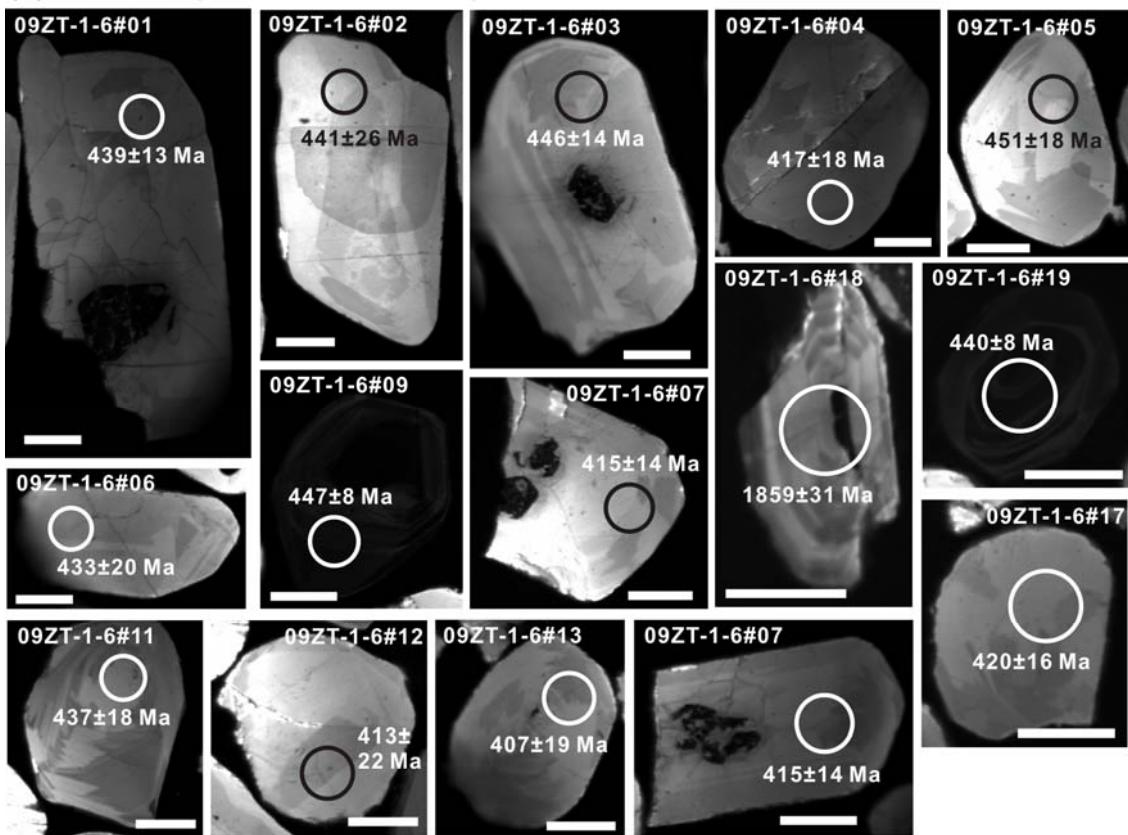


Figure DR1. (Continued)

Table DR1 (continued)

Analysis	Isotope ratios						Dis.%	Ages (Ma)				Th (ppm)	U (ppm)	Th/U		
	$^{207}\text{Pb}/^{206}\text{Pb}$	$\pm 1\text{SE}$	$^{207}\text{Pb}/^{235}\text{U}$	$\pm 1\text{SE}$	$^{206}\text{Pb}/^{238}\text{U}$	$\pm 1\text{SE}$		$^{207}\text{Pb}/^{206}\text{Pb}$	$\pm 1\text{SE}$	$^{207}\text{Pb}/^{235}\text{U}$	$\pm 1\text{SE}$					
14HSZ-9-1-41	0.0712	0.0021	1.576	0.053	0.1606	0.0023	-0.1	962	45	961	21	960	13	48	42	1.14
14HSZ-9-1-42	0.0686	0.0021	1.394	0.048	0.1473	0.0021	0.0	888	47	886	20	886	12	162	98	1.65
14HSZ-9-1-43	0.0698	0.0018	1.478	0.046	0.1536	0.0022	-0.1	923	41	922	19	921	12	125	123	1.01
14HSZ-9-1-44	0.0681	0.0022	1.364	0.050	0.1453	0.0022	0.0	873	51	874	21	874	12	55	68	0.81
14HSZ-9-1-45	0.0665	0.0024	1.241	0.049	0.1354	0.0021	0.0	822	56	819	22	819	12	69	55	1.26
14HSZ-9-1-46	0.0692	0.0019	1.430	0.047	0.1499	0.0021	-0.1	904	44	902	20	901	12	99	75	1.33
14HSZ-9-1-47	0.0676	0.0019	1.327	0.044	0.1424	0.0020	0.0	857	44	858	19	858	12	71	50	1.42
14HSZ-9-1-48	0.0699	0.0020	1.483	0.050	0.1539	0.0023	0.0	926	45	923	20	923	13	58	49	1.20
14HSZ-9-1-49	0.0679	0.0018	1.338	0.041	0.1429	0.0020	-0.1	866	41	862	18	861	11	140	78	1.80
14HSZ-9-1-50	0.0674	0.0019	1.313	0.045	0.1412	0.0021	0.1	851	46	851	20	852	12	150	112	1.34
14HSZ-9-1-51	0.0693	0.0022	1.439	0.052	0.1508	0.0023	0.0	906	50	905	22	905	13	60	36	1.67
14HSZ-9-1-52	0.0676	0.0016	1.326	0.038	0.1422	0.0019	0.0	858	38	857	17	857	11	495	345	1.43
14HSZ-9-1-53	0.0689	0.0017	1.417	0.043	0.1491	0.0021	0.0	897	40	896	18	896	12	69	70	0.98
14HSZ-9-1-54	0.0692	0.0017	1.430	0.042	0.1500	0.0021	-0.1	904	38	902	18	901	12	520	334	1.56
14HSZ-9-1-55	0.0695	0.0018	1.461	0.045	0.1526	0.0022	0.1	913	41	914	19	915	12	162	129	1.26
14HSZ-9-1-56	0.0686	0.0018	1.391	0.044	0.1471	0.0021	0.0	887	42	885	19	885	12	229	154	1.49
14HSZ-9-1-57	0.0683	0.0017	1.364	0.041	0.1449	0.0020	-0.1	877	39	873	18	872	11	136	99	1.38

