

Zircons from the Wambidgee Serpentinite Belt, southern Lachlan Orogen: evidence for oceanic crust at the Cambrian–Ordovician boundary

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SUPPLEMENTAL DATA

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Figure. Thin-section photomicrographs (UXP light) of plagiogranite sample #169 from the Western Wambidgee Serpentinite Mélange, where the upper plate (field of view 3.5 mm) shows the contact between plagiogranite (left) and metabasalt enclave (right), and the lower plate (field of view 1.5 mm) shows a narrow cataclasite zone within plagiogranite (from Graham, PhD thesis, 2000).

Table. Major, minor and trace element analyses of plagiogranites from the Wambidgee Serpentinite Belt and Western Wambidgee Serpentinite Mélange (from Graham, PhD Thesis, 2000).

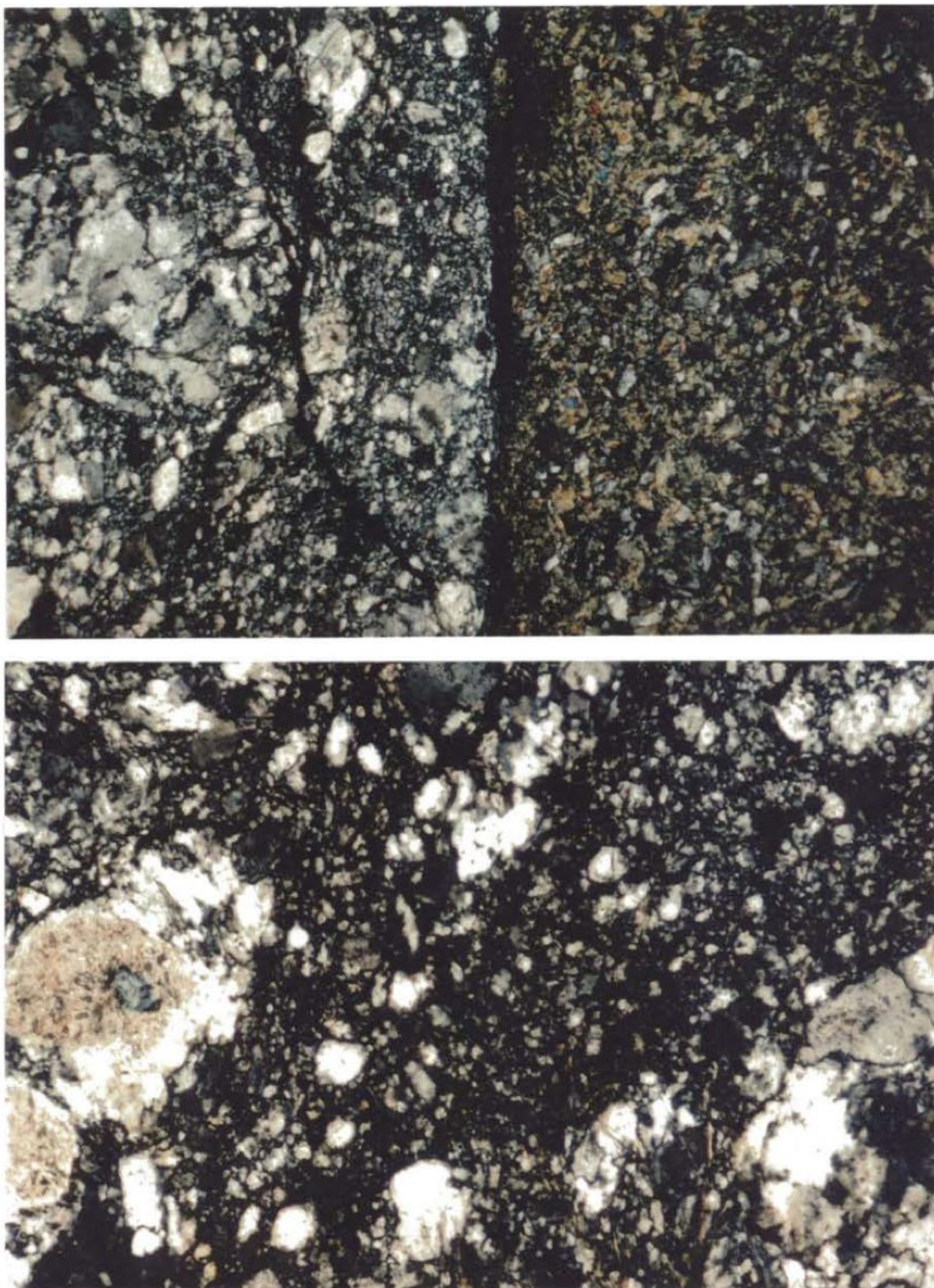


Figure. Thin-section photomicrographs (UXP light) of plagiogranite sample #169 from the Western Wambidgee Serpentine Mélange, where the upper plate (field of view 3.5 mm) shows the contact between plagiogranite (left) and metabasalt enclave (right), and the lower plate (field of view 1.5 mm) shows a narrow cataclasite zone within plagiogranite (from Graham, PhD thesis, 2000).

Table. Major, minor and trace element analyses of plagiogranites from the Wambidgee Serpentinite Belt and Western Wambidgee Serpentinite Mélange (from Graham, PhD Thesis, 2000).

Sample No	BF91/33f	BF92/6a	169
SiO ₂	64.93	60.76	
TiO ₂	0.30	0.77	
Al ₂ O ₃	18.43	19.21	
Fe ₂ O ₃	0.43	1.69	
FeO	1.17	0.37	
MnO	0.02	0.16	
MgO	1.16	1.70	
CaO	2.59	8.2	
Na ₂ O	9.93	5.55	
K ₂ O	0.04	0.05	
P ₂ O ₅	0.16	0.30	
H ₂ O ⁺	0.65	0.99	
CO ₂	0.03	0.08	
H ₂ O ⁻	0.22	0.21	
Cr	1.0	7.3	3
Ni	35	5	
V	54	85	
Cu	8	5	
Pb	b.d	7	
Zn	12	55	
Rb	1	b.d	
Ba	67	113	
Sr	575	1037	
Ga	15	17	
Nb	10	15	
Zr	85	145	
Y	16	22	
Th	5.72	11	5.8
U	1	4	
La	33.69	44.92	16.72
Ce	56.06	103.55	31.99
Nd	22.62	50.53	12.92
Sm	3.42	8.70	2.47
Eu	0.81	2.31	0.45
Tb	0.36	0.97	0.34
Ho	0.47	0.93	0.45
Yb	1.30	2.11	1.25
Lu	0.19	0.30	0.17
Hf	2.31	4.06	1.97
Sc	7.45	21.5	4.02
Ta	0.72	0.64	0.94