



Supplement of

Digital soil mapping of lithium in Australia

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Table S1. Pearson correlation coefficients (*r*) of Lithium and other geochemical properties across TOS and BOS. Data source: de Caritat & Cooper (2011) and Main et al. (2019).

Property	Li - TOS	Li - BOS	Property	Li - TOS	Li - BOS	Property	Li - TOS	Li - BOS
Ag	0.08**	0.04	Ga	0.69***	0.64***	Rb	0.66***	0.61***
Al	0.74***	0.69***	Gd	0.59***	0.49***	Sb	0.10***	0.10***
As	0.18***	0.21***	Ge	0.16***	0.15***	Sc	0.57***	0.50***
Au	0.05	0.08**	Hf	0.31***	0.29***	Se	0.26***	0.19***
B	0.21***	0.22***	Hg	0.07*	0.15***	Sm	0.60***	0.50***
Ba	0.35***	0.27***	Ho	0.57***	0.47***	Sn	0.12***	0.13***
Be	0.61***	0.65***	In	0.17***	0.38***	Sr	0.21***	0.17***
Bi	0.09**	0.30***	K	0.49***	0.46***	Tb	0.58***	0.47***
Ca	0.09***	0.08**	La	0.53***	0.44***	Te	0.06*	0.04
Cd	0.12***	0.03	Lu	0.26***	0.24***	Th	0.37***	0.36***
Ce	0.53***	0.42***	Mg	0.43***	0.33***	Tl	0.57***	0.52***
Co	0.41***	0.27***	Mn	0.34***	0.24***	Tm	0.36***	0.30***
Cr	0.14***	0.10***	Mo	0.12***	0.05	U	0.39***	0.20***
Cs	0.68***	0.62***	Na	0.15***	0.20***	V	0.28***	0.24***
Cu	0.39***	0.18***	Nb	0.14***	0.15***	W	0.01	0.01
Dy	0.59***	0.49***	Nd	0.60***	0.49***	Y	0.56***	0.46***
Er	0.58***	0.48***	Ni	0.35***	0.25***	Zn	0.42***	0.33***
Eu	0.58***	0.47***	Pb	0.09***	0.12***	Zr	0.33***	0.30***
Fe	0.36***	0.30***	Pr	0.58***	0.47***			

*** Correlation is significant at the 0.001 level

** Correlation is significant at the 0.05 level

* Correlation is significant at the 0.01 level

Reference

- de Caritat, P. and Cooper, M.: National Geochemical Survey of Australia: The Geochemical Atlas of Australia. Record 2011/020, Geoscience Australia [dataset], <http://dx.doi.org/10.11636/Record.2011.020>, 2011.
- Main, P. T., Bastrakov, E. N., Wygralak, A. S., and Khan, M.: Northern Australia Geochemical Survey: Data Release 2 – Total (coarse fraction), Aqua Regia (coarse and fine fraction), and Fire Assay (coarse and fine fraction) element contents, Geoscience Australia, Canberra. [dataset], <http://dx.doi.org/10.11636/Record.2019.002>, 2019.