

Supplementary Data 1. Data sources and references.

Locality	Belt	Craton/region	Reference
Akarem	Egypt Eastern Desert		Helmy & El Mahallawi, 2003, El-Rahman <i>et al.</i> , 2012
Altay	Altay nickel belt	CAOB	Mao <i>et al.</i> , 2021
Anette Island	North American Cordillera		Li <i>et al.</i> , 2013
Atlantic Ocean Basalts	Atlantic Ocean		Sobolev <i>et al.</i> , 2007
Azores	Atlantic Ocean		Sobolev <i>et al.</i> , 2007
Beja Igneous Complex	Variscan Orogeny		Jesus <i>et al.</i> , 2014
Bushveld Complex	Bushveld Complex	Kaapvaal Craton	Teigler & Eales, 1993, Maier & Eales, 1997, Teigler <i>et al.</i> , 1992, Maier unpublished
Dacaotan	East Tianshan nickel belt	CAOB	Mao <i>et al.</i> , 2021
Dahanib Complex	Egypt Eastern Desert		Khedr & Arai, 2017
Duke Island	North American Cordillera		Thakurta <i>et al.</i> , 2008, Li <i>et al.</i> , 2012a
Duluth Complex misc	MidContinent Rift USA	Mid-Continent	Li <i>et al.</i> 2010
Eagle	MidContinent Rift USA	Mid-Continent	Ding <i>et al.</i> , 2010, Ripley & Li, 2011
East Junggar	East Junggar nickel belt	CAOB	Mao <i>et al.</i> , 2021
Emeishan-China-Misc	Emeishan	Yangtze Block	Sobolev <i>et al.</i> , 2007
Fazenda Mirabela Complex	Itabuna-Salvador-Curaça	Sao Francisco Craton	Barnes <i>et al.</i> , 2011
Galmoenan Massif	Kamchatka Arc		Batanova <i>et al.</i> , 2005
Genina Gharbia Complex	Egypt Eastern Desert		Helmy <i>et al.</i> , 2014
Giles Complex Misc	Musgrave Block	Musgrave Block	Maier <i>et al.</i> , 2015a
Gilmour Islands	East Hudson Bay Islands	Ungava Orogen/Cape Smith Belt	Sobolev <i>et al.</i> , 2007
Gindalbie	EGS Gindalbie	Yilgarn-EGS	CSIRO unpublished
Gorgona Island	Gorgona Island	Gorgona Island	Sobolev <i>et al.</i> , 2007
Hawaii general	Hawaiian Islands		Sobolev <i>et al.</i> , 2007
Heimonvuori	Kotalahti Raahe-Ladoga	Svecofennian Orogeny	Makkonen <i>et al.</i> , 2008
Heishan	CAOB - North East	North China Craton	Xie <i>et al.</i> , 2014

Hongqiling	Northeast China	CAOB	Lu et al., 2012, Acta Petrol. Sin. Lü et al., 2012
Huangshandong	East Tianshan nickel belt	CAOB	Gao et al., 2013 Mao et al., 2015 Sun et al., 2013
Huangshannan	East Tianshan nickel belt	CAOB	Zhao et al., 2016
Huangshanxi	East Tianshan nickel belt	CAOB	Mao et al., 2014
Iceland	Iceland		Sobolev et al., 2007
Indian Ocean basalts	Indian Ocean		Sobolev et al., 2007
Insizwa	Karoo Province		Lightfoot et al., 1984
Jinbaoshan	Emeishan	Yangtze Block	Tao et al., 2007
Jinchuan	Longshoushan	North China Craton	Li et al., 2004; Kang et al., 2021.
Kabanga	Kabanga-Musongati-Kapalagulu Alignment	East African Shield	Maier et al., 2010, Maier et al., 2011
Kalatongke	East Junggar nickel belt	CAOB	Li et al., 2012b Zhang et al., 2009, Gao & Zhou, 2013, Tang et al., 2020
Kapalagulu-Mibango	Kabanga-Musongati-Kapalagulu Alignment	East African Shield	Maier et al., 2010, Maier et al., 2011
Karoo	Karoo Province		Sobolev et al., 2007
Kerkonkoski	Kotalahti Raahe-Ladoga	Svecofennian Orogeny	Makinen & Makkonen, 2004, Makkonen et al., 2008, Makkonen, 2015
Kevitsa	Kittila Sattasvaara	Central Lapland Greenstone Belt	Yang et al., 2013, Luolavirta et al., 2017
Kiglapait	Nain Plutonic Province		Simkin & Smith, 1970
Kotelaenen	Kittila Sattasvaara	Central Lapland Greenstone Belt	Hanski unpublished (pers comm)
Kunene Anorthosite	Kunene		Maier et al., 2013
Kylmalahti	Kotalahti Raahe-Ladoga	Svecofennian Orogeny	Lamberg, 2005
Laukukangas	Kotalahti Raahe-Ladoga	Svecofennian Orogeny	Lamberg, 2005
Limahe	Emeishan	Yangtze Block	Tao et al., 2008
Luikujarvi	Kotalahti Raahe-Ladoga	Svecofennian Orogeny	Lamberg, 2005

Luusniemi	Kotalahti Raahe-Ladoga	Svecofennian Orogeny	Lamberg, 2005
Majasaari	Kotalahti Raahe-Ladoga	Svecofennian Orogeny	Lamberg, 2005
Makkah quadrangle	Makkah Quadrangle		Habtoor <i>et al.</i> , 2016
Monts de Cristal	Monts De Cristal Complex		Maier <i>et al.</i> , 2015b
Mordor Complex	Mordor Complex	North Australian Craton	Barnes <i>et al.</i> , 2008
Moxie Pluton	Appalachian-Caledonian Orogeny		Thompson & Naldrett, 1984
Munro Township	Abitibi	Superior Craton	Sobolev <i>et al.</i> , 2007
Murphy Well	EGS Kurnalpi	Yilgarn-EGS	Siégl <i>et al.</i> , 2014
Musongati	Kabanga-Musongati-Kapalagulu Alignment	East African Shield	Maier <i>et al.</i> , 2010, Maier <i>et al.</i> , 2011
Naistenrako	Kotalahti Raahe-Ladoga	Svecofennian Orogeny	Lamberg, 2005
Nebo-Babel	Musgrave Block	Musgrave Block	Seat <i>et al.</i> , 2011, Maier <i>et al.</i> , 2015a
Niinimaki	Kotalahti Raahe-Ladoga	Svecofennian Orogeny	Lamberg, 2005
Nizhnii Tagil	Kamchatka Arc		Krause <i>et al.</i> , 2007
Norilsk-Talnakh deposits	Siberian Traps	Siberian Craton	Barnes & Kuniylov, 2000, Li <i>et al.</i> , 2003, Barnes <i>et al.</i> , 2019a, Schoneveld <i>et al.</i> , 2020
Norilsk-Talnakh deposits	Siberian Trap Picrites	Siberian Craton	Sobolev <i>et al.</i> , 2007
North Atlantic MORB	Atlantic Ocean		Sobolev <i>et al.</i> , 2007
Nova-Bollinger	Albany-Fraser	Yilgarn Craton unspecified	Maier <i>et al.</i> , 2016, Taranovic <i>et al.</i> , 2021
Ntaka Hill	Mozambique Mobile Belt	East African Shield	Barnes <i>et al.</i> , 2016, Barnes <i>et al.</i> , 2019b
Pacific Island basalts incl Ontong-Java	Pacific Ocean		Sobolev <i>et al.</i> , 2007
Panton Sill	Halls Creek Orogen	North Australian Craton	Le Vaillant <i>et al.</i> , 2020
Partridge River Complex	MidContinent Rift USA	Mid-Continent	Ripley, 2014
Poyi	Beishan nickel belt		Xue <i>et al.</i> , 2016

Rana Intrusion	Appalachian-Caledonian Orogeny		Barnes <i>et al.</i> , 1989
Rytky	Kotalahti Raahe-Ladoga	Svecofennian Orogeny	Lamberg, 2005
Savannah	Halls Creek Orogen	North Australian Craton	Le Vaillant <i>et al.</i> , 2020
Shahira	Egypt Eastern Desert		Azer <i>et al.</i> , 2016
Shiant Sill	North Atlantic Tertiary Province	North Atlantic LIP	Simkin & Smith, 1970
Siberia Komatiite	EGS Kalgoorlie	Yilgarn-EGS	Gole & Hill, 1990
Siberian Traps basalts	Siberian Traps	Siberian Craton	Sobolev <i>et al.</i> , 2007
South Atlantic Basalts	Atlantic Ocean		Sobolev <i>et al.</i> , 2007
St. Stephen	Appalachian-Caledonian Orogeny		Paktunc, 1989
Stillwater Complex			Barnes & Naldrett, 1985, Campbell & Murck, 1993
Stormi	Vammala	Svecofennian Orogeny	Lamberg, 2005
Svetley Bor + Kytlym	Urals		Krause <i>et al.</i> , 2007
Talifer Lake	Nain Plutonic Province		Simkin & Smith, 1970
Tianyu	East Tianshan nickel belt		Mao <i>et al.</i> , 2021
Tormala	Kotalahti Raahe-Ladoga	Svecofennian Orogeny	Makkonen 2015, Lamberg 2005
Tulaergen	East Tianshan nickel belt		Fang <i>et al.</i> , 2021, Wang <i>et al.</i> , 2021, Xue <i>et al.</i> , 2021
Turnagain Complex	North American Cordillera		Clark, 1980
Voiseys Bay	Nain Plutonic Province		Li & Naldrett, 1999
Xiarihamu	East Kunlun		Li <i>et al.</i> , 2015, Song <i>et al.</i> , 2016, Song <i>et al.</i> , 2020
Ylivieska	Kotalahti Raahe-Ladoga	Svecofennian Orogeny	Makkonen 2015, Lamberg 2005
Zhouan	Zhouan	North China Craton	Wang and Wang, 2012, Mineral Deposits Chinese
Zhubu	Emeishan	Yangtze Block	Tang <i>et al.</i> , 2013

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