**Supplementary files**

**List of igneous suites of rocks used to construct figures 2 and 3.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of igneous suite | Cristallisation age | Geochemical affinity granitoid | Geochemical affinity mafic | Age Reference |
| \*Bourguet  | 1038 Ma | Arc |  | Augland et al., 2015 |
| \*Bouvreuil | 1006 Ma  | Slab failure/ A-Type | mantle array | Augland et al., 2017 |
| \*Core | 1014 Ma | Slab failure | mantle array | Augland et al., 2017 |
| \*Rheaume | 985 Ma | A-type | MORB+subduction | Côté et al., 2018 |
| \*Rodez  | 995 Ma | Slab failure/ A-Type | MORB+subduction | Papapavlou, 2019 |
| \*Okaopeo | 1014 Ma  | Slab failure | mantle array | Augland et al., 2015 |
| \*Sabot Mangerite | 1017 Ma | Slab failure/A-Type | mantle array | Gobeil et al., (2002) |
| \*St-Hedwidge | 1017 Ma | Slab failure/A-type | mantle array | Papapavlou, 2019 |
| \*Tremaudan  | 1028 Ma | Slab failure | mantle array | Moukhsil *et al*., 2013a, Davis *et al*., 2015 |
| \*Manic 5  | 1065 Ma | Arc | Andean | Dunning et Indares (2010) |
| Guenette  | 1065 Ma | Arc/Slab failure |  | van Breemen & Corriveau 1995 |
| \*Travers  | 1076 Ma  | Arc/ A-Type |  | Papapavlou et al., 2018 |
|  Kensington-Skootamatt  | 1080-1060 Ma  | Arc | Andean | Corriveau et al., 2000; Corriveau et van Breeman, 2000 |
| \*Argent  | 1103 Ma  | Arc | MORB + Subduction | Davis et al., 2015 |
| \*Travers  | 1076 Ma  | Arc/A-type | Andean | Papapavlou et al., 2018 |
| Chevreuil Suite | 1160-65 Ma | Arc | MORB + Subduction | Corriveau et al., 2000; Corriveau et van Breeman, 2000 |
| \*Tétépisca  | 1050 Ma  |  | Andean | Moukhsil *et al*., 2013b |
| \*Louis  | 1046 Ma |  | Andean | Moukhsil *et al*., 2009 |
| Vein complex | 1008 Ma |  | MORB+subduction | Maity, 2019 |
| \*Roc  | 1012 Ma |  | mantle array | Moukhsil et al., 2015 |
| \* data from the MERN |  |  |  |

*Complete reference list for compilation of igneous ages (U-Pb and TDM) used to as well as metamorphic ages used construct figures 2 and 3.*

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