|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Reference | Name in ThermoBar | Temperature-dependent? | Pressure-dependent? | H2O-Dependent? |
| **Plagioclase-Liquid thermometers. *Function “calculate\_fspar\_liq\_temp”*** | | | | |
| Putirka (2008) | T\_Put2008\_eq23 |  | **Yes** | **Yes** |
|  | T\_Put2008\_eq24a |  | **Yes** | **Yes** |
| **Plagioclase-Liquid Barometers. *Function “calculate\_fspar\_liq\_press”*** | | | | |
| Putirka (2008) | P\_Put2008\_eq25 | **Yes** |  | No |
| **Alkali Feldspar-Liquid thermometers. *Function “calculate\_fpsar\_liq\_temp”*** | | | | |
| Putirka (2008) | T\_Put2008\_eq24b |  | **Yes** | No |
| **Plagioclase-Alkali Feldspar thermometers. Function “calculate\_plag\_kspar\_temp\_matching”** | | | | |
| Putirka (2008) | T\_Put2008\_eq27a |  | **Yes** | No |
|  | T\_Put2008\_eq27b |  | **Yes** | No |
|  | T\_Put\_Global\_2Fspar |  | **Yes** | No |
| **Plagioclase-Alkali Feldspar thermometers. Function “calculate\_plag\_kspar\_temp\_matching”** | | | | |
| Putirka (2008) | H\_Put2008\_eq25b | **Yes** | **Yes** |  |
| Putirka (2005) | H\_Put2005\_eqH | **Yes** | No |  |
| Waters and Lange (2015) | H\_Waters2015 | **Yes** | **Yes** |  |
| **Other Functions** | | | | |
| **Iterative solving of pressure and temperature:**  **calculate\_fspar\_liq\_press\_temp:** Iteratively solves P and T for clinopyroxene-only equilibra using an equation for pressure, and an equation for temperature  **Matching all possible pairs**  **calculate\_plag\_kspar\_temp\_matching:** Calculates P and T for all possible plag-kspar pairs (with user-selected options for equilibrium criteria) | | | | |