**Supplementary Table S2**. Summary of whole rock Sr-Nd-O isotopic data of the Panjal Traps from the Pir Panjal Range, Guryal Ravine, and the Lidder Valley

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample | Rock | Location | δ18OVSMOW | 87Sr/86Sri | 143Nd/144Ndi | εNd(*t*) | TDM (Ma) | TiO2  (wt%) | Mg# | LOI  (wt%) |
| PJ1-001A | B | GR | 12.0 | 0.708739 | 0.512144 | -2.4 | 1581 | 2.28 | 47.6 | 6.67 |
| PJ1-004 | B | GR | 11.4 | 0.708549 | 0.511991 | -5.3 | 2010 | 2.31 | 43.8 | 3.83 |
| PJ1-005 | B | GR | 11.0 | 0.708638 | 0.512152 | -2.2 | 1448 | 2.46 | 43.3 | 3.58 |
| PJ1-008 | B | GR | 10.9 | 0.707765 | 0.512141 | -2.4 | 1681 | 2.14 | 44.9 | 2.24 |
| PJ1-011 | B | GR | 10.8 | 0.705108 | 0.512166 | -1.9 | 1426 | 2.26 | 42.8 | 3.67 |
| PJ1-024 | B | GR | 10.7 | 0.701126 | 0.512071 | -3.8 | 1748 | 1.59 | 51.0 | 4.04 |
| PJ1-025 | B | GR | 10.6 | 0.708420 | 0.512076 | -3.7 | 1743 | 1.53 | 47.1 | 4.59 |
| PJ1-026 | B | GR | 10.5 | 0.707456 | 0.512074 | -3.8 | 1786 | 1.56 | 52.7 | 2.97 |
| PJ1-030 | BA | GR | 11.4 | 0.707381 | 0.511951 | -6.1 | 1852 | 2.04 | 38.2 | 3.73 |
| PJ1-032 | B | GR | 10.1 | 0.706932 | 0.512151 | -2.2 | 1466 | 2.08 | 44.2 | 2.22 |
| PJ1-033 | B | GR | 9.2 | 0.704319 | 0.512323 | +1.1 |  | 1.55 | 54.5 | 3.44 |
| PJ1-034 | B | GR | 9.0 | 0.704590 | 0.512330 | +1.3 |  | 1.53 | 56.1 | 3.83 |
| PJ1-044 | R | GR | 12.1 |  | 0.511824 | -8.6 | 1906 | 0.38 | 39.1 | 1.68 |
| PJ1-049 | D | GR | 12.9 | 0.709708 | 0.511809 | -8.9 | 1938 | 1.08 | 25.5 | 1.58 |
| PJ2-013 | B | LV | 10.0 | 0.710751 | 0.512116 | -2.9 | 1638 | 2.87 | 35.6 | 3.48 |
| PJ2-024 | B | LV | 10.6 | 0.707347 | 0.512318 | +1.0 | 1241 | 1.88 | 53.9 | 4.21 |
| PJ4-001 | B | PP | 7.2 | 0.717438 | 0.512259 | +0.3 |  | 1.02 | 65.3 | 4.46 |
| PJ4-003 | BA | PP | 7.9 | 0.713657 | 0.511902 | -6.8 | 1996 | 0.90 | 55.3 | 2.98 |
| PJ4-006 | B | PP | 7.2 | 0.709010 | 0.512440 | +3.9 |  | 0.98 | 62.7 | 2.27 |
| PJ4-008 | B | PP | 6.8 | 0.712659 | 0.512497 | +4.3 |  | 0.86 | 72.3 | 3.98 |

B = basalt; BA = basaltic andesite; R = rhyolite; D = dacite. GR = Guryal Ravine; LV = Lidder Valley; PP = Pir Panjal Range. TDM = depleted mantle model ages, Ma = mega annum. Mg# = [Mg mol./(Mg mol. + Fe mol.)]\*100; FeO = 0.8998\*Fe2O3t. Whole rock geochemistry and Sr-Nd isotopes are from Shellnutt et al. (2012, 2014, 2015).