|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Supplemental Table 1. Geochemical Analyses of Kahouanne seamount samples** | | | | | | | | | |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Major Elements (wt.% renormalized to anhydrous basis)** | | | | | | |  |  |  |  |  |  |  |  |
| *Sample* | **SiO2** | **TiO2** | **Al2O3** | **Fe2O3** | **MnO** | **MgO** | **CaO** | **Na2O** | **K2O** | **P2O5** | **LOI** | **Total** |  |  |
| NA-052 | 43.33 | 0.58 | 21.08 | 6.85 | 0.15 | 4.23 | 18.95 | 3.51 | 1.07 | 0.24 | 11.14 | 100 |  |  |
| NA-055 | 45.37 | 0.65 | 21.95 | 8.08 | 0.26 | 9.99 | 8.66 | 3.68 | 1.08 | 0.26 | 9.25 | 100 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Trace Elements (ppm by ICP-OES)** | | | |  |  |  |  |  |  |  |  |  |  |  |
| *Sample* | **Sc** | **V** | **Cr** | **Co** | **Ni** | **Cu** | **Zn** | **Sr** | **Y** | **Zr** | **Ba** |  |  |  |
| NA-052 | 14.3 | 143.6 | 6.5 | 14.9 | 17.5 | 36.8 | 54.7 | 385.6 | 16.4 | 48.6 | 110.6 |  |  |  |
| NA-055 | 17.4 | 151.7 | 112.6 | 17.6 | 297.1 | 45.3 | 93.4 | 235.0 | 20.9 | 76.9 | 114.7 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Rare Earth Elements (ppm by ICP-MS)** | | | | |  |  |  |  |  |  |  |  |  |  |
| *Sample* | **La** | **Ce** | **Pr** | **Nd** | **Sm** | **Eu** | **Gd** | **Tb** | **Dy** | **Ho** | **Er** | **Tm** | **Yb** | **Lu** |
| NA-052 | 5.23 | 11.97 | 1.70 | 6.97 | 1.86 | 0.70 | 1.98 | 0.36 | 2.38 | 0.47 | 1.47 | 0.25 | 1.72 | 0.28 |
| NA-055 | 5.52 | 13.50 | 1.89 | 7.91 | 2.18 | 0.80 | 2.39 | 0.42 | 2.88 | 0.60 | 1.82 | 0.30 | 2.10 | 0.34 |