**Table S1.** Morphological/ seed characterization of 5 *V. marina* genotypes collected from Andaman and Nicobar Islands with 6 quantitative traits

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Genotypes/ Characters** | **Pod length (cm)** | **No. of seeds pod-1** | **Seed length (mm)** | **Seed width (mm)** | **L:B ratio** | **100-seed weight (g)** |
| Vm1 (Chidya Tapu) | 4.9 | 4.2 | 6.2 | 4.8 | 1.3 | 7.7 |
| Vm2 (Manjery) | 5.7 | 4.0 | 6.9 | 4.9 | 1.4 | 7.9 |
| Vm9 (Baratang) | 5.6 | 5.0 | 7.0 | 5.2 | 1.4 | 7.6 |
| Campbell bay | 4.8 | 4.2 | 6.2 | 4.8 | 1.3 | 7.3 |
| Car Nicobar | 5.3 | 4.4 | 5.8 | 4.7 | 1.2 | 6.9 |
| **Min** | 4.80 | 4.00 | 5.80 | 4.70 | 1.20 | 6.90 |
| **Max** | 5.70 | 5.00 | 7.00 | 5.20 | 1.40 | 7.90 |
| **Mean** | 5.26 | 4.36 | 6.42 | 4.88 | 1.32 | 7.48 |
| **Std. error** | 0.18 | 0.17 | 0.23 | 0.09 | 0.04 | 0.17 |
| **Stand. dev** | 0.40 | 0.38 | 0.51 | 0.19 | 0.08 | 0.39 |
| **Skewness** | -0.12 | 1.52 | 0.14 | 1.52 | -0.51 | -0.80 |
| **Kurtosis** | -2.71 | 2.61 | -2.20 | 2.61 | -0.61 | 0.00 |
| **Coeff. var** | 7.68 | 8.82 | 7.97 | 3.94 | 6.34 | 5.21 |

**Table S2.** The cumulative % variance of first three Principal coordinates obtained through PCoA analysis of 20 *Vigna* genotypes/ varieties

|  |  |  |
| --- | --- | --- |
| Principal component | % Variance | Cumulative % Variance |
| I | 37.20 | 37.20 |
| II | 27.51 | 64.71 |
| III | 21.22 | 85.93 |