**Table** **S1** Accession number, meteorological and soil data for the different sites of tea accessions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attributes |  | | | |
| Regions and accession number | Langroud  (A1, A2, A3) | Siahkal  (A4, A5, A6) | Kobijar  (A7, A8, A9) | Bazkiaguorab  (A10, A11, A12) |
| Latitude | 37° 09ʹ 22˝ N | 37° 15ʹ 39˝ N | 37° 11ʹ 04˝ N | 37° 12ʹ 34˝ N |
| Longitude | 50° 18ʹ 47˝ E | 50° 58ʹ 42˝ E | 50° 08ʹ 35˝ E | 50° 01ʹ 33˝ E |
| Elevation above sea level (m) | 15 | 44 | 7 | 3 |
| Mean annual rainfall (mm) | 1583 | 1533 | 1498 | 1491 |
| Mean maximum temperature (°C) | 24.1 | 23.7 | 24.8 | 25.1 |
| Mean minimum temperature (°C) | 7.1 | 6.2 | 7.5 | 7.6 |
| Soil pH | 4.56 | 5.89 | 3.89 | 3.87 |
| Soil EC (dS m-1) | 0.98 | 0.82 | 0.42 | 0.37 |
| Soil organic matter (%) | 1.51 | 4.56 | 1.94 | 1.68 |