Supplementary Table 4. List of twenty the most dry and the most humid years over the last millennium revealed in the tree-ring-based precipitation reconstruction for the western Pamir-Alay. Values given in parenthesis are the percentages of the long-term mean (510 mm).

|  |  |
| --- | --- |
| Dry years | Pluvial years |
| 1404 (28.9%) | 1184 (177.5%) |
| 938 (37.6%) | 1180 (169.6%) |
| 900 (38.8%) | 1124 (161.8%) |
| 937 (44.7%) | 1099 (158.6%) |
| 814 (47.1%) | 1159 (158.4%) |
| 1227 (47.3%) | 1995 (154.8%) |
| 1232 (49.1%) | 1127 (153.7%) |
| 969 (52.9%) | 1120 (153.0%) |
| 1273 (54.9%) | 1158 (152.1%) |
| 968 (55.6%) | 1025 (147.9%) |
| 1226 (56.1%) | 1994 (147.6%) |
| 942 (56.3%) | 831 (147.3%) |
| 1214 (56.6%) | 1991 (146.6%) |
| 939 (57.7%) | 1679 (146.5%) |
| 807 (57.8%) | 1674 (146.5%) |
| 1233 (58.0%) | 1878 (146.2%) |
| 962 (58.7%) | 1998 (146.0%) |
| 970 (59.7%) | 1069 (145.7%) |
| 1002 (61.2%) | 1992 (145.6%) |
| 1231 (61.6%) | 1181 (145.3%) |