

Table S3 Pearosn correlation coefficients matrix of climatic variables

| | | | | | | | | | | | | | | | | | | | |
|-----------|---------------|----------|----------|----------------|---------------|----------------|----------------|----------|---------------|-----------|-----------|---------------|---------------|---------------|-----------|---------------|---------------|-----------|-----------|
| 1 | 1 | | | | | | | | | | | | | | | | | | |
| 2 | -.772** | 1 | | | | | | | | | | | | | | | | | |
| 3 | .226 | .226 | 1 | | | | | | | | | | | | | | | | |
| 4 | -.801** | .576** | -.649** | 1 | | | | | | | | | | | | | | | |
| 5 | .490** | -.344** | -.488** | .105 | 1 | | | | | | | | | | | | | | |
| 6 | .974** | -.828** | .279* | -.884** | .316** | 1 | | | | | | | | | | | | | |
| 7 | -.870** | .762** | -.451** | .966** | -.012 | -.952** | 1 | | | | | | | | | | | | |
| 8 | .722** | -.645** | -.210 | -.301* | .669** | .632** | -.451** | 1 | | | | | | | | | | | |
| 9 | .965** | -.780** | .280* | -.855** | .366** | .976** | -.911** | .614** | 1 | | | | | | | | | | |
| 10 | .756** | -.658** | -.367** | -.216 | .914** | .631** | -.371** | .841** | .649** | 1 | | | | | | | | | |
| 11 | .970** | -.741** | .400** | -.922** | .272* | .989** | -.955** | .587** | .973** | .576** | 1 | | | | | | | | |
| 12 | .865** | -.826** | .053 | -.713** | .384** | .886** | -.810** | .561** | .874** | .646** | .853** | 1 | | | | | | | |
| 13 | .734** | -.738** | .091 | -.652** | .209 | .771** | -.746** | .493** | .712** | .491** | .739** | .890** | 1 | | | | | | |
| 14 | .711** | -.726** | -.207 | -.423** | .576** | .691** | -.543** | .498** | .747** | .719** | .641** | .852** | .591** | 1 | | | | | |
| 15 | -.633** | .598** | .070 | .464** | -.454** | -.636** | .524** | -.330** | -.705** | -.555** | -.608** | -.688** | -.305* | -.854** | 1 | | | | |
| 16 | .788** | -.741** | .179 | -.734** | .193 | .828** | -.810** | .490** | .774** | .487** | .807** | .922** | .984** | .623** | -.389** | 1 | | | |
| 17 | .711** | -.725** | -.215 | -.416** | .587** | .688** | -.536** | .495** | .739** | .726** | .637** | .859** | .603** | .996** | -.851** | .632** | 1 | | |
| 18 | .726** | -.690** | .233 | -.730** | .076 | .779** | -.796** | .508** | .719** | .387** | .765** | .851** | .955** | .505** | -.277* | .966** | .510** | 1 | |
| 19 | .689** | -.697** | -.232 | -.386** | .605** | .661** | -.502** | .480** | .734** | .726** | .612** | .819** | .555** | .974** | -.839** | .580** | .972** | .449** | 1 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |