Table S2. Physical Work Capacity (PWC) in the tropics (23S – 23N latitude), 1991-2010 and potential future thermal conditions (2041-2060 and 2081-2100), for three emission scenarios (SSP1-2.6, SSP3-7.0 and SSP5-8.5). The daily PWC values are averaged temporally for an entire year (annual), for the crop-area weighted growing season and for the 90 continuous days of the year with the lowest PWC. They are averaged spatially using the global cropland area in the recent past to compute crop-area weighted percentiles.

| **Thermal environment, SSP & period** | **Annual** | | | **Growing season** | | | | **Hottest period** | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Area percentile* | *10* | *50* | *90* | | *10* | *50* | *90* | | *10* | *50* | *90* | |
| Recent past, 1991-2010 | 0.62 | 0.73 | 0.84 | | 0.63 | 0.73 | 0.87 | | 0.54 | 0.62 | 0.78 | |
| **SSP 1-2.6** |  |  |  | |  |  |  | |  |  |  | |
| 2041-2060 | 0.58 | 0.68 | 0.81 | | 0.58 | 0.68 | 0.84 | | 0.48 | 0.56 | 0.74 | |
| 2081-2100 | 0.57 | 0.68 | 0.81 | | 0.57 | 0.68 | 0.84 | | 0.48 | 0.56 | 0.74 | |
| **SSP 3-7.0** |  |  |  | |  |  |  | |  |  |  | |
| 2041-2060 | 0.56 | 0.67 | 0.79 | | 0.56 | 0.67 | 0.83 | | 0.46 | 0.54 | 0.72 | |
| 2081-2100 | 0.47 | 0.59 | 0.73 | | 0.47 | 0.59 | 0.77 | | 0.36 | 0.45 | 0.65 | |
| **SSP 5-8.5** |  |  |  | |  |  |  | |  |  |  | |
| 2041-2060 | 0.55 | 0.66 | 0.79 | | 0.55 | 0.66 | 0.82 | | 0.45 | 0.53 | 0.72 | |
| 2081-2100 | 0.42 | 0.54 | 0.70 | | 0.43 | 0.54 | 0.74 | | 0.31 | 0.40 | 0.61 | |