**S4 Table. Neotropical and regional cloud immersion changes under RCP 4.5, 2041-2060**. Results project that 57% of Neotropical TMCF will experience cloud immersion declines with moderate climate change as early as around 2040 (2041-2060, average year 2050) for Representative Concentration Pathway 4.5, *i.e.,* RCP 4.5. The net loss of area with a TMCF climate in the Neotropics is 57% minus 6.8% ≈ 50%. Changes in cloud immersion are given by **change category a** and TMCF upper limit types as percentages of TMCF zone areas b. **Upper limit types**: **No Subalpine (or N)** = montane TMCF where no subalpine occurs, **Mixed (or Mxd)** = montane + mixed TMCF, **Subalpine 1 (or S1)** = montane + subalpine 1 TMCF, **Subalpine 2 (or S2)** = montane + subalpine 2 TMCF. **Subalpine 1** = TMCF transitions to páramo;

**Subalpine 2** = TMCF transitions to puna.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Region** | **Subalpine Type** | **Montane + Subalpine TMCF Zone Area (km2)b** | **Below CFmin**  **(%)** | **RH­d ≤ -3% or**  **RH<Rhmin**  **(%)** | **-3%< RHd <0%**  **(%)** | **RHd ≥ 0%**  **Total Lost**  **(%)** | **RHd ≥ 0%**  **Remaining**  **(%)** | **RHd** **≥ 0%**  **Added**  **(%)** | **RHd ≥ 0%**  **Net**  **Remaining**  **(%)** |
| **Caribbean** | Mixed | 2,125 | 8.2 | 40 | 52 | 100 | 0 | 0 | 0 |
|  | No Subalpine | 1,354 | 17 | 52 | 31 | 100 | 0 | 0 | 0 |
| **Mesoamerica** | Subalpine 1 | 7,597 | 6.6 | 2.0 | 91 | 100 | 0.0 | 0 | 0 |
|  | Mixed | 46,540 | 15 | 32 | 53 | 100 | 0 | 0 | 0 |
|  | No Subalpine | 2,022 | 21 | 6.2 | 73 | 100 | 0 | 0 | 0 |
| **South America** | Subalpine 1 | 196,300 | 4.8 | 0.21 | 35 | 40 | 60 | 8.8 | 69 |
|  | Subalpine 2 | 92,470 | 10 | 0.14 | 49 | 59 | 41 | 4.8 | 46 |
|  | Mixed | 45,610 | 18 | 8.0 | 44 | 70 | 30 | 11 | 41 |
|  | No Subalpine | 7,367 | 18 | 1.3 | 63 | 82 | 18 | 3.4 | 21 |
| **Neotropics** | **All** | **401,400** | **9** | **5.3** | **43** | **57** | **43** | **6.8** | **50** |

**aChange categories**: Below CFmin = falls below CF­min (other categories remain above CFmin); RHd ≤ -3% or < RHmin = RH falls severely; -3% < RHd < 0% = RH falls up to 3%; RHd ≥ 0% = RH is stable or increases. bBased on maps with a ~250-m cell size.