**S12 Table. Regional cloud immersion changes by protection status for RCP 8.5, 2041-2060** (Representative Concentration Pathway 8.5, average year 2050). Changes in cloud immersion are given by change categorya and protection statusb for: montane TMCF no subalpine occurs (No Subalpine), montane + mixed TMCF (Mixed), or montane + subalpine 1 or subalpine 2 TMCF, as percentages of TMCF zone areasc. Subalpine 1 TMCF transitions to páramo; Subalpine 2 TMCF transitions to puna.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Region** | **Subalpine Type** | **PR or UPR** | **Montane + Subalpine TMCF Zone Area (km2)b** | **Below CFmin****(%)** | **RH­d ≤ -3% or** **RH<Rhmin****(%)** | **-3%< RHd <0%****(%)** | **RHd ≥ 0%****Total Lost****(%)** | **RHd ≥ 0%****Left****(%)** | **RHd** **≥ 0%****Added****(%)** | **RHd ≥ 0%****Net Left****(%)** |
| **Caribbean** | Mixed | UPR |  676  |  18  |  82  |  0.0  |  100  |  -  |  -  |  -  |
|  |  | **PR** |  **1,449**  |  **5.0**  |  **95**  |  **0.0**  |  **100**  |  **-**  |  **-**  |  **-**  |
|  | No Subalpine | UPR |  454  |  29  |  66  |  4.8  |  100  |  -  |  -  |  -  |
|  |  | **PR** |  **900**  |  **15**  |  **69**  |  **16**  |  **100**  |  **-**  |  **-**  |  **-**  |
| **Mesoamerica** | Subalpine 1 | UPR |  2,978  |  12  |  5.6  |  83  |  100  |  -  |  -  |  -  |
|  |  | **PR** |  **4,619**  |  **6.4**  |  **4.3**  |  **89**  |  **100**  |  **-**  |  **-**  |  **-**  |
|  | Mixed | UPR |  36,520  |  17  |  53  |  30  |  100  |  -  |  -  |  -  |
|  |  | **PR** |  **9,878**  |  **13**  |  **51**  |  **36**  |  **100**  |  **-**  |  **-**  |  **-**  |
|  | No Subalpine | UPR |  1,047  |  34  |  7.3  |  59  |  100  |  -  |  -  |  -  |
|  |  | **PR** |  **975**  |  **18**  |  **9.2**  |  **73**  |  **100**  |  **-**  |  **-**  |  **-**  |
| **South America** | Subalpine 1 | UPR |  152,200  |  8.4  |  0.8  |  69  |  78  |  22  |  1.8  |  24  |
|  |  | **PR** |  **44,060**  |  **5.8**  |  **3.5**  |  **77**  |  **86**  |  **14**  |  **1.2**  |  **15**  |
|  | Subalpine 2 | UPR |  55,460  |  11  |  0.5  |  51  |  62  |  38  |  5.8  |  44  |
|  |  | **PR** |  **37,020**  |  **16**  |  **1.0**  |  **71**  |  **88**  |  **12**  |  **1.7**  |  **14**  |
|  | Mixed | UPR |  28,230  |  18  |  5.7  |  40  |  63  |  37  |  12  |  50  |
|  |  | **PR** |  **17,390**  |  **26**  |  **26.2**  |  **29**  |  **81**  |  **19**  |  **4.6**  |  **24**  |
|  | No Subalpine | UPR |  3,631  |  29  |  1.8  |  61  |  91  |  8.9  |  0.8  |  10  |
|  |  | **PR** |  **3,736**  |  **14**  |  **13**  |  **47**  |  **73**  |  **27**  |  **4.2**  |  **31**  |

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. bUPR = unprotected, PR = protected. cBased on maps with a ~250-m cell size.