**S11 Table. Regional cloud immersion changes by protection status for RCP 4.5, 2061-2080** (Representative Concentration Pathway 4.5, average year 2070). 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  |  17  |  75  |  8.0  |  100  |  -  |  -  |  -  |
|  |  | **PR** |  **1,449**  |  **5.0**  |  **95**  |  **0.0**  |  **100**  |  **-**  |  **-**  |  **0.0**  |
|  | No Subalpine | UPR |  454  |  27  |  64  |  9.3  |  100  |  -  |  -  |  0.0  |
|  |  | **PR** |  **900**  |  **13**  |  **62**  |  **24**  |  **100**  |  **-**  |  **-**  |  **-**  |
| **Mesoamerica** | Subalpine 1 | UPR |  2,978  |  11  |  4.4  |  85  |  100  |  -  |  -  |  -  |
|  |  | **PR** |  **4,619**  |  **5.9**  |  **3.3**  |  **91**  |  **100**  |  **-**  |  **-**  |  **-**  |
|  | Mixed | UPR |  36,520  |  18  |  46  |  37  |  100  |  -  |  -  |  -  |
|  |  | **PR** |  **9,878**  |  **14**  |  **44**  |  **42**  |  **100**  |  **-**  |  **-**  |  **-**  |
|  | No Subalpine | UPR |  1,047  |  31  |  7.4  |  61  |  100  |  -  |  -  |  -  |
|  |  | **PR** |  **975**  |  **17**  |  **7.8**  |  **75**  |  **100**  |  **-**  |  **-**  |  **-**  |
| **South America** | Subalpine 1 | UPR |  152,200  |  4.3  | 0.23 |  50  |  55  |  45  |  6.9  |  52  |
|  |  | **PR** |  **44,060**  |  **3.1**  |  **2.2**  |  **60**  |  **66**  |  **34**  |  **14**  |  **49**  |
|  | Subalpine 2 | UPR |  55,460  |  7.8  |  0.4  |  45  |  54  |  46  |  7.2  |  54  |
|  |  | **PR** |  **37,020**  |  **12**  |  **0.8**  |  **69**  |  **82**  |  **18**  |  **2.3**  |  **20**  |
|  | Mixed | UPR |  28,230  |  20  |  5.3  |  41  |  66  |  34  |  14  |  48  |
|  |  | **PR** |  **17,390**  |  **21**  |  **24**  |  **38**  |  **83**  |  **17**  |  **4.6**  |  **22**  |
|  | No Subalpine | UPR |  3,631  |  20  |  2.0  |  70  |  92  |  8.2  |  1.8  |  10  |
|  |  | **PR** |  **3,736**  |  **10**  |  **3.3**  |  **60**  |  **74**  |  **26**  |  **7.9**  |  **34**  |

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.