Otálora-Ardila, A., *et al.* 2024. Potential distribution of the Curaçaoan Long-nosed Bat, *Leptonycteris curasoae*: implications for monitoring and conservation. Therya. DOI:10.12933/therya-24-6140

**Supplementary material**

**Figure S1**. Localities sampled in three geographic areas dominated by dry forests in Colombia. A: La Guajira Peninsula, B: Caribbean Coast, C: Chicamocha River Basin.

A map of different countries/regions

Description automatically generated

**Figure S2**. Land use/land cover map and the potential distribution of *L. curasoae*.

A map of the world

Description automatically generated

**Table S1.** Records of *Leptonycteris curasoae* throughoutits entire geographic range and used to generate the potential distribution map of the species. **\***New localities reported, and new roosts discovered in Colombia.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **source\_type** | **source** | **country** | **latitude** | **longitude** | **altitude** | **year** | **roost** | **maternity/**  **mating** |
| L1 | museum | ICN | Colombia | 10.3538889 | -75.5686667 | 2 | 1966 | no | no |
| L39 | museum | ICN | Colombia | 12.1831226 | -71.2829664 | NA | 1967 | no | no |
| L42 | museum | ICN | Colombia | 6.815697 | -72.989036 | 530 | 1995 | no | no |
| L47 | museum | ICN | Colombia | 11.2967170 | -74.1533620 | NA | 2003 | no | no |
| L50 | museum | ICN | Colombia | 11.1287190 | -72.6276870 | NA | 2005 | no | no |
| L51 | museum | ICN | Colombia | 12.1832050 | -71.9075960 | NA | 2008 | no | no |
| L52 | museum | ICN | Colombia | 12.1831070 | -71.2824890 | NA | 1967 | no | no |
| L53 | museum | IAvH-M | Colombia | 10.3600556 | -75.5890000 | 2 | 1972 | no | no |
| L251 | museum | UIS-MHN | Colombia | 11.0504200 | -72.6697500 | NA | 2010 | no | no |
| L252 | museum | UIS-MHN | Colombia | 10.3491000 | -75.5715000 | NA | 2002 | no | no |
| L57 | GBIF | FMNH | Colombia | 10.3252720 | -75.5777140 | 2 | 1978 | no | no |
| L253 | GBIF | MHNG | Colombia | 12.1833000 | -71.2833000 | NA | 1967 | no | no |
| L254 | GBIF | iNaturalist | Colombia | 12.3507000 | -71.5903200 | NA | 2009 | no | no |
| L63 | scientific article | Cadena-García etal. 1998 | Colombia | 6.8166667 | -73.0016667 | NA | 1995 | no | no |
| L65 | GBIF | ROM | Aruba | 12.5098630 | -69.9371370 | NA | NA | no | no |
| L66 | GBIF | ROM | Curaçao | 12.3259090 | -69.0741610 | NA | NA | no | no |
| L67 | GBIF | ROM | Bonaire | 12.2525960 | -68.3620850 | NA | NA | no | no |
| L68 | GBIF | USNM | Colombia | 10.4152778 | -75.5386111 | 2 | NA | no | no |
| L240 | scientific article | Sanchez and Cadena 1999 | Colombia | 6.7901389 | -73.0040556 | NA | NA | no | no |
| L241 | scientific article | Soriano *et al*. 2000 | Colombia | 7.9169650 | -72.4636830 | NA | NA | no | no |
| L242 | scientific article | Soriano *et al*. 2000 | Venezuela | 8.1681540 | -72.0174410 | NA | NA | no | no |
| L243 | scientific article | Soriano *et al*. 2000 | Venezuela | 8.5214640 | -71.4735950 | NA | NA | no | no |
| L244 | scientific article | Soriano *et al*. 2000 | Venezuela | 9.3246060 | -70.6276480 | NA | NA | no | no |
| L73 | GBIF | Cerrejón | Colombia | 11.0275000 | -72.6166389 | NA | 2005 | no | no |
| L74 | GBIF | Cerrejón | Colombia | 10.9703889 | -72.7580278 | NA | 2010 | no | no |
| L133 | GBIF | Cerrejón | Colombia | 11.1567222 | -72.6161944 | NA | 2005 | no | no |
| L134 | GBIF | Cerrejón | Colombia | 11.0370556 | -72.7186111 | NA | 2006 | no | no |
| L135 | GBIF | Cerrejón | Colombia | 11.0925833 | -72.6166389 | NA | 2006 | no | no |
| L157 | GBIF | Cerrejón | Colombia | 11.0217222 | -72.6161944 | NA | 2005 | no | no |
| L255 | technical reports | Nassar 2014 | Colombia | 6.8306667 | -72.9909722 | 635 | 2013 | no | no |
| L256 | technical reports | Nassar 2014 | Colombia | 6.8208056 | -73.2038056 | 451 | 2013 | no | no |
| L257 | technical reports | Nassar 2014 | Colombia | 7.0704990 | -73.1772840 | 306 | 2013 | no | no |
| L258 | technical reports | Nassar 2014 | Colombia | 6.8856111 | -73.1734444 | 319 | 2013 | no | no |
| L250 | thesis | Sosa M. 1991 | Venezuela | 8.4928790 | -71.3355270 | NA | 1990 | no | no |
| L259 | GBIF | USNM | Venezuela | 10.4300000 | -64.0300000 | 1 | 1966 | no | no |
| L260 | GBIF | USNM | Venezuela | 11.1700000 | -70.6200000 | 55 | 1968 | no | no |
| L261 | GBIF | EBD\_CSIC | Venezuela | 10.6796859 | -63.8182700 | 13 | 1982 | no | no |
| L262 | GBIF | PBDB | Venezuela | 10.9514000 | -71.6589000 | 20 | NA | no | no |
| L263 | GBIF | USNM | Venezuela | 9.8800000 | -69.7800000 | 528 | 1968 | no | no |
| L264 | GBIF | USNM | Venezuela | 9.8800000 | -69.7800000 | 900 | 1968 | no | no |
| L265 | GBIF | USNM | Venezuela | 9.8800000 | -69.7800000 | 900 | 1968 | no | no |
| L266 | GBIF | USNM | Venezuela | 10.0300000 | -69.4300000 | 592 | 1968 | no | no |
| L267 | GBIF | KU | Venezuela | 10.9800000 | -63.8800000 | 57 | 1966 | no | no |
| L268 | GBIF | USNM | Venezuela | 11.0000000 | -63.8700000 | 53 | 1967 | no | no |
| L269 | GBIF | USNM | Venezuela | 11.6300000 | -71.8300000 | 5 | 1968 | no | no |
| L270 | GBIF | USNM | Venezuela | 11.6500000 | -71.8700000 | 15 | 1968 | no | no |
| L271 | GBIF | USNM | Venezuela | 11.8200000 | -70.1000000 | 13 | 1968 | no | no |
| L272 | GBIF | USNM | Venezuela | 11.9300000 | -69.9800000 | 120 | 1968 | no | no |
| L273 | GBIF | KU | Venezuela | 11.0200000 | -64.2900000 | 95 | 1966 | no | no |
| L274 | GBIF | KU | Venezuela | 11.0200000 | -64.3000000 | 107 | 1966 | no | no |
| L275 | GBIF | AMNH | Aruba | 12.4252575 | -69.8746310 | 24 | 1952 | no | no |
| L276 | GBIF | ZMA | Aruba | 12.5280620 | -70.0222582 | 20 | 1959 | no | no |
| L278 | GBIF | USNM | Curaçao | 12.1224221 | -68.8824233 | 40 | 1899 | no | no |
| L280 | scientific article | Newton *et al*. 2003 | Venezuela | 11.0500000 | -64.2166670 | 24 | 1997 | no | no |
| L281 | scientific article | Newton *et al*. 2003 | Venezuela | 10.6000000 | -64.2000000 | 28 | 1997 | no | no |
| L282 | scientific article | Newton *et al*. 2003 | Venezuela | 10.1000000 | -65.3666670 | 16 | 1997 | no | no |
| L283 | scientific article | Newton *et al*. 2003 | Aruba | 11.9833330 | -69.9000000 | 91 | 1997 | no | no |
| L284 | scientific article | Newton *et al*. 2003 | Venezuela | 11.8998915 | -69.9479387 | 147 | 1997 | no | no |
| L285 | scientific article | Newton *et al*. 2003 | Venezuela | 12.0166670 | -70.1166670 | 65 | 1997 | no | no |
| L286 | scientific article | Newton *et al*. 2003 | Venezuela | 11.1166670 | -69.5333330 | 335 | 1997 | no | no |
| L287 | scientific article | Newton *et al*. 2003 | Venezuela | 10.8833330 | -69.7500000 | 283 | 1997 | no | no |
| L288 | scientific article | Newton *et al*. 2003 | Venezuela | 10.0333330 | -69.6666670 | 590 | 1997 | no | no |
| L289 | scientific article | Newton *et al*. 2003 | Venezuela | 10.5844600 | -69.5429700 | 617 | 1997 | no | no |
| L290 | scientific article | Newton *et al*. 2003 | Venezuela | 8.4666670 | -71.4000000 | 1010 | 1997 | no | no |
| L291 | scientific article | Newton *et al*. 2003 | Venezuela | 8.1500000 | -72.0166670 | 1125 | 1997 | no | no |
| L292 | scientific article | Newton *et al*. 2003 | Venezuela | 7.8666670 | -72.4333330 | 483 | 1997 | no | no |
| L293 | human observation | Caraballo, Vladimir | Venezuela | 9.9405560 | -67.1691670 | 357 | NA | no | no |
| L294 | thesis | Nassar J. 1991 | Venezuela | 10.5890127 | -67.0490171 | 100 | 1991 | no | no |
| L295 | scientific article | Handley 1976 | Venezuela | 9.8775000 | -69.8211111 | 650 | 2016 | no | no |
| L296 | scientific article | Handley 1976 | Venezuela | 11.0169444 | -63.8622222 | 126 | 2016 | no | no |
| L297 | scientific article | Handley 1976 | Venezuela | 11.6483333 | -71.8305556 | 6 | 2016 | no | no |
| L298 | scientific article | Simal *et al*. 2015 | Venezuela | 11.3807220 | -69.5736670 | 156 | 2015 | no | no |
| L299 | scientific article | Simal *et al*. 2015 | Aruba | 12.4726940 | -69.8966390 | 36 | 2011 | no | no |
| L300 | scientific article | Simal *et al*. 2015 | Aruba | 12.4855556 | -69.9580556 | 47 | 2011 | no | no |
| L301 | scientific article | Simal *et al*. 2015 | Curaçao | 12.3554440 | -69.0947500 | 27 | 2011 | no | no |
| L302 | scientific article | Simal *et al*. 2015 | Curaçao | 12.1716667 | -68.9066667 | 19 | 2011 | no | no |
| L303 | scientific article | Simal *et al*. 2015 | Bonaire | 12.2018060 | -68.3070830 | 20 | 2011 | no | no |
| L304 | scientific article | Simal *et al*. 2015 | Bonaire | 12.1266667 | -68.2752778 | 9 | NA | no | no |
| L305 | thesis | García A. 2011 | Venezuela | 11.0400000 | -64.2999720 | 114 | 2011 | no | no |
| L306 | thesis | García A. 2011 | Venezuela | 10.3017920 | -64.6375750 | 113 | 2011 | no | no |
| L307 | human observation | Martino, A | Venezuela | 11.2017893 | -70.2572024 | 68 | NA | no | no |
| L308 | human observation | Jafet M. Nassar | Venezuela | 11.9170134 | -70.0190678 | 141 | 2011 | no | no |
| L309 | human observation | Jafet M. Nassar. | Venezuela | 11.8836095 | -70.2775781 | 6 | 2011 | no | no |
| L310 | human observation | Jafet M. Nassar | Venezuela | 10.1447222 | -69.5794444 | 764 | NA | no | no |
| L311 | museum | CVULA | Venezuela | 8.4655556 | -71.5041667 | 521 | NA | no | no |
| L313 | museum | CVULA | Venezuela | 8.4616667 | -71.5183333 | 482 | NA | no | no |
| L314 | museum | CVULA | Venezuela | 8.1550000 | -72.0252778 | 1079 | NA | no | no |
| L335 | museum | CVULA | Venezuela | 8.1477778 | -72.0519444 | 970 | NA | no | no |
| L336 | museum | CVULA | Venezuela | 7.8594444 | -72.4450000 | 357 | NA | no | no |
| L340 | museum | CVULA | Venezuela | 9.0925000 | -70.7058333 | 1918 | NA | no | no |
| L341 | museum | CVULA | Venezuela | 9.0588889 | -70.7716667 | 2788 | NA | no | no |
| L344 | fieldwork data | Our captura data | Colombia | 6.7944440 | -73.0047500 | 1337 | 2020 | no | no\* |
| L345 | fieldwork data | Our captura data | Colombia | 6.8175830 | -73.2129720 | 743 | 2020 | no | no\* |
| L346 | fieldwork data | Our captura data | Colombia | 6.7347780 | -73.0938210 | 483 | 2020 | no | no\* |
| L347 | fieldwork data | Our captura data | Colombia | 10.3192500 | -75.5815000 | 0 | 2020 | yes | mating |
| L348 | fieldwork data | Our captura data | Colombia | 10.3290030 | -75.5800870 | 116 | 2020 | yes | mating |
| L349 | fieldwork data | Our captura data | Colombia | 12.0991090 | -71.1528900 | 0 | 2022 | yes | maternity**\*** |
| L350 | fieldwork data | Our captura data | Colombia | 11.2710830 | -74.2040830 | 0 | 2020 | no | no**\*** |
| L351 | GBIF | Cerrejón | Colombia | 11.1450560 | -72.5366110 | NA | 2006 | no | no |
| L352 | GBIF | Cerrejón | Colombia | 10.9673330 | -72.7551390 | NA | 2010 | no | no |
| L353 | GBIF | Cerrejón | Colombia | 11.0431670 | -72.7378610 | NA | 2010 | no | no |
| L354 | GBIF | Cerrejón | Colombia | 10.9703890 | -72.7580280 | NA | 2006 | no | no |
| L355 | GBIF | Cerrejón | Colombia | 11.1003060 | -72.6451390 | NA | 2006 | no | no |
| L356 | GBIF | Cerrejón | Colombia | 11.0544170 | -72.6720000 | NA | 2006 | no | no |
| L357 | GBIF | Cerrejón | Colombia | 11.0846390 | -72.6533330 | NA | 2010 | no | no |
| L358 | GBIF | Cerrejón | Colombia | 11.1138610 | -72.6828610 | NA | 2006 | no | no |
| L359 | GBIF | Cerrejón | Colombia | 11.0326670 | -72.7545280 | NA | 2006 | no | no |
| L360 | GBIF | Cerrejón | Colombia | 11.1107780 | -72.5639170 | NA | 2009 | no | no |
| L361 | GBIF | Cerrejón | Colombia | 11.1664440 | -72.5476940 | NA | 2006 | no | no |
| L362 | GBIF | Cerrejón | Colombia | 11.1383890 | -72.5398890 | NA | 2010 | no | no |
| L363 | GBIF | Cerrejón | Colombia | 11.1100830 | -72.5780830 | NA | 2005 | no | no |
| L364 | GBIF | Cerrejón | Colombia | 11.1120000 | -72.6347780 | NA | 2005 | no | no |
| L365 | GBIF | Cerrejón | Colombia | 11.1033310 | -72.6870130 | NA | 2020 | no | no |
| L366 | GBIF | Cerrejón | Colombia | 11.1022220 | -72.6926940 | NA | 2009 | no | no |
| L367 | GBIF | Cerrejón | Colombia | 11.0504170 | -72.6697780 | NA | 2010 | no | no |
| L368 | GBIF | Cerrejón | Colombia | 11.1634720 | -72.5426110 | NA | 2009 | no | no |
| L369 | GBIF | Cerrejón | Colombia | 11.1625000 | -72.6166390 | NA | 2006 | no | no |
| L370 | GBIF | Cerrejón | Colombia | 11.1567220 | -72.6130280 | NA | 2009 | no | no |
| L371 | GBIF | Fundación Chimbilako | Colombia | 6.8846670 | -73.1741110 | NA | 2014 | no | no |
| L372 | GBIF | Fundación Chimbilako | Colombia | 6.8856110 | -73.1734440 | NA | 2014 | no | no |
| L373 | GBIF | Fundación Chimbilako | Colombia | 6.8883890 | -73.1768890 | NA | 2014 | no | no |
| L374 | GBIF | Grupo Prodeco | Colombia | 9.7130200 | -73.4571600 | NA | 2020 | no | no |
| L375 | VERTNET | MHNG-MAM-1912.020 | Colombia | 12.29527 | -71.28263 | NA | 1967 | no | no |
| L376 | VERTNET | ROM | Aruba | 12.48271 | -69.89964 | NA | 2017 | no | no |
| L377 | VERTNET | ROM | Aruba | 12.49399 | -69.94452 | NA | 2017 | no | no |
| L378 | VERTNET | ROM | Aruba | 12.49296 | -69.90713 | NA | 2017 | no | no |
| L379 | VERTNET | ROM | Curaçao | 12.2005 | -68.98855 | NA | 2017 | no | no |
| L380 | VERTNET | ROM | Curaçao | 12.18321 | -68.96458 | NA | 2017 | no | no |
| L381 | scientific article | Delfin *et al*. 2011 | Venezuela | 11.9601030 | -70.2216700 | 13 | 2011 | yes | yes |
| L382 | scientific article | Delfin *et al*. 2011 | Venezuela | 11.8997554 | -69.9479003 | 146 | 2011 | yes | maternity/mating |
| L383 | scientific article | Delfin *et al*. 2011 | Venezuela | 11.9168772 | -70.0190266 | 142 | 2011 | yes | maternity/mating |
| L384 | scientific article | Delfin *et al*. 2011 | Venezuela | 11.8834739 | -70.2775265 | 6 | 2011 | yes | maternity |
| L385 | human observation | Jafet M. Nassar | Venezuela | 11.3805556 | -69.5736111 | 85 | 2016 | yes | maternity |
| L386 | human observation | Jafet M. Nassar | Venezuela | 10.8911111 | -69.7713889 | 276 | 2017 | yes | yes |
| L387 | technical report | Nassar *et al*. 2012 | Venezuela | 11.0325000 | -64.2766667 | 184 | 2012 | yes | maternity |
| L388 | technical report | Nassar *et al*. 2012 | Venezuela | 11.0544444 | -64.3044444 | 70 | 2012 | yes | yes |
| L389 | human observation | Jafet M. Nassar | Venezuela | 11.0363889 | -64.2933333 | 130 | 2012 | yes | maternity |
| L390 | human observation | Jafet M. Nassar | Venezuela | 10.2983333 | -64.6661111 | 3 | 2015 | yes | maternity |
| L391 | scientific article | Simal *et al*. 2021 | Aruba | 12.4725000 | -69.8963889 | 6 | 2021 | yes | maternity |
| L392 | scientific article | Simal *et al*. 2021 | Aruba | 12.4852778 | -69.9580556 | 25 | 2021 | yes | maternity |
| L393 | scientific article | Simal *et al*. 2021 | Aruba | 12.4938889 | -69.9444444 | 60 | 2021 | yes | maternity |
| L394 | scientific article | Simal *et al*. 2021 | Bonaire | 12.1263889 | -68.2750000 | 6 | 2021 | yes | maternity |
| L395 | scientific article | Simal *et al*. 2021 | Bonaire | 12.2186111 | -68.2152778 | 8 | 2021 | yes | maternity |
| L396 | scientific article | Simal *et al*. 2021 | Bonaire | 12.2016667 | -68.3069444 | 12 | 2021 | yes | maternity/mating |
| L397 | scientific article | Simal *et al*. 2021 | Bonaire | 12.2047222 | -68.3100000 | 13 | 2021 | yes | maternity/mating |
| L398 | scientific article | Simal *et al*. 2021 | Curacao | 12.3552778 | -69.0947222 | 9 | 2021 | yes | maternity |
| L399 | scientific article | Simal *et al*. 2021 | Curacao | 12.2002778 | -68.9883333 | 11 | 2021 | yes | maternity |
| L400 | scientific article | Simal *et al*. 2021 | Curacao | 12.1713889 | -68.9066667 | 7 | 2021 | yes | maternity |

**Table S2.**  Number of captured individuals of *Leptonycteris curasoae* in the Chicamocha River, the Caribbean Coast, and La Guajira Peninsula in Colombia.

|  |  |  |
| --- | --- | --- |
| Geographic area | Locality | Number of captured individuals |
| Chicamocha River Basin | Santander, Aratoca | 3 |
| Santander, Barichara | 0 |
| Santander, Piedecuesta | 0 |
| Santander, Zapatoca, Cucarachero del Chicamocha reserve | 1 |
| Santander, Curiti | 0 |
| Santander, Jordán, site 1 | 0 |
| Santander, Jordán, site 2 | 0 |
| Santander, Los santos | 1 |
| Santander, Villanueva | 0 |
| Santander, Zapatoca, mines | 0 |
| Caribbean Coast | Bolívar, Cartagena, Tierra Bomba island, colonial fortresses | 123 |
| Bolívar, Cartagena, Tierra Bomba island, Monteadentro | 0 |
| Bolívar, Cartagena | 0 |
| Atlántico, Piojó | 0 |
| Atlántico, Tubará | 0 |
| Atlántico, Puerto Colombia | 0 |
| Magdalena, Santa Marta, Taganga-La Rosita | 1 |
| Magdalena, PNN Tayrona, site 1 | 0 |
| Magdalena, PNN Tayrona, site 2 | 0 |
| Magdalena, PNN Tayrona, site 3 | 0 |
| La Guajira Peninsula | La Guajira, PNN Macuira, site 1 | 0 |
| La Guajira, PNN Macuira, site 2 | 0 |
| La Guajira, PNN Macuira, site 3 | 0 |
| La Guajira, Uribia | 71 |
| La Guajira, Barrancas | 0 |
| La Guajira, Hatonuevo | 0 |
| La Guajira, Albania | 0 |
| Total | | 200 |

**Table S3.**  Explored and discovered roosts used by *Leptonycteris curasoae* in the Chicamocha River, the Caribbean Coast and La Guajira Peninsula in Colombia. Colony sizes are included.

|  |  |  |  |
| --- | --- | --- | --- |
| Geographic area | Locality | Roost type | Colony size |
| Chicamocha River Basin | Santander, Zapatoca, Cucarachero del Chicamocha reserve | human-made building | 0 |
| Santander, Curiti, Macaregua cave | cave | 0 |
| Santander, Barichara, shelter 1 | rock shelter | 0 |
| Santander, Barichara, shelter 2 | rock shelter | 0 |
| Santander, Barichara, shelter 3 | rock shelter | 0 |
| Santander, Barichara, shelter 4 | rock shelter | 0 |
| Santander, Villanueva, El Nitro cave | cave | 0 |
| Santander, Zapatoca, mines | mine tunnel | 0 |
| Caribbean Coast | Bolívar, Cartagena, Tierra Bomba island, San Fernando fortress | human-made building | 500 |
| Bolívar, Cartagena, Tierra Bomba island, Bateria Angel San Rafael fortress | human-made building | 700 |
| Bolívar, Cartagena, Tierra Bomba island, San José fortress | human-made building | 0 |
| Bolívar, Cartagena, Tierra Bomba island, Chamba cave | rock shelter | 0 |
| Bolívar, Cartagena, San Felipe fortress | human-made building | 0 |
| Atlántico, Tubará, El Tigre cave | cave | 0 |
| Magdalena, Santa Marta, Taganga-La Rosita, el murciélago cave | rock shelter | 0 |
| La Guajira Peninsula | La Guajira, PNN Macuira, shelter 1 | rock shelter | 0 |
| La Guajira, PNN Macuira, shelter 2 | rock shelter | 0 |
| La Guajira, Uribia, Tolekamana cave | cave | 10,000 |
| La Guajira, Barrancas, Los Santos cave | cave | 0 |
| La Guajira, Hatonuevo, Luis Pablo Ojeda cave | cave | 0 |
| La Guajira, Hatonuevo, cave1 | cave | 0 |
| La Guajira, Hatonuevo, Vicenta cave | cave | 0 |
| La Guajira, Albania, El Tigre cave | cave | 0 |

**Table S4.** SDM performance metrics for 10 partitions and respective algorithms.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Algorithm** | **Sensitivity** | **Specificity** | **ROC** | |
| **Calibration** | **Validation** |
| GLM | 94.231 | 77.514 | 0.918 | 0.906 |
| GBM | 100 | 94.686 | 0.987 | 0.898 |
| GAM | 100 | 95.7 | 0.983 | 0.896 |
| SRE | 73.077 | 76.5 | 0.748 | 0.638 |
| RF | 100 | 99.943 | 1 | 0.911 |
| MAX ENT | 88.462 | 84.5 | 0.927 | 0.91 |
| GLM | 94.231 | 83.071 | 0.928 | 0.759 |
| GBM | 100 | 94.971 | 0.984 | 0.881 |
| GAM | 100 | 93.814 | 0.973 | 0.758 |
| SRE | 67.308 | 72.786 | 0.7 | 0.6 |
| RF | 100 | 99.957 | 1 | 0.902 |
| MAX ENT | 96.154 | 81.3 | 0.938 | 0.816 |
| GLM | 90.385 | 76.6 | 0.903 | 0.929 |
| GBM | 100 | 94.857 | 0.986 | 0.953 |
| GAM | 100 | 92.386 | 0.971 | 0.897 |
| SRE | 69.231 | 69.343 | 0.693 | 0.627 |
| RF | 100 | 99.929 | 1 | 0.936 |
| MAX ENT | 84.615 | 81.943 | 0.907 | 0.939 |
| GLM | 92.308 | 84.286 | 0.924 | 0.851 |
| GBM | 100 | 94.629 | 0.987 | 0.897 |
| GAM | 100 | 93.9 | 0.978 | 0.847 |
| SRE | 67.308 | 70.371 | 0.688 | 0.726 |
| RF | 100 | 100 | 1 | 0.858 |
| MAX ENT | 92.308 | 83.314 | 0.933 | 0.88 |
| GLM | 92.308 | 76.786 | 0.917 | 0.856 |
| GBM | 100 | 95.586 | 0.989 | 0.898 |
| GAM | 100 | 93.929 | 0.976 | 0.811 |
| SRE | 69.231 | 73.314 | 0.713 | 0.646 |
| RF | 100 | 99.943 | 1 | 0.91 |
| MAX ENT | 94.231 | 83.171 | 0.934 | 0.878 |
| GLM | 92.308 | 77.129 | 0.904 | 0.927 |
| GBM | 100 | 94.271 | 0.987 | 0.964 |
| GAM | 100 | 91.257 | 0.969 | 0.856 |
| SRE | 65.385 | 66.9 | 0.661 | 0.665 |
| RF | 100 | 99.971 | 1 | 0.945 |
| MAX ENT | 90.385 | 80.571 | 0.91 | 0.941 |
| GLM | 90.385 | 79.771 | 0.912 | 0.875 |
| GBM | 100 | 95.586 | 0.989 | 0.862 |
| GAM | 100 | 91.3 | 0.976 | 0.861 |
| SRE | 67.308 | 66.814 | 0.671 | 0.682 |
| RF | 100 | 99.971 | 1 | 0.792 |
| MAX ENT | 92.308 | 80.257 | 0.927 | 0.893 |
| GLM | 94.231 | 78.557 | 0.908 | 0.877 |
| GBM | 100 | 94.314 | 0.988 | 0.906 |
| GAM | 98.077 | 94.143 | 0.97 | 0.784 |
| SRE | 67.308 | 69.343 | 0.683 | 0.626 |
| RF | 100 | 99.986 | 1 | 0.814 |
| MAX ENT | 92.308 | 85.014 | 0.927 | 0.901 |
| GLM | 88.462 | 76.757 | 0.893 | 0.93 |
| GBM | 100 | 94.9 | 0.987 | 0.946 |
| GAM | 100 | 92.971 | 0.971 | 0.847 |
| SRE | 63.462 | 68.743 | 0.661 | 0.648 |
| RF | 100 | 99.957 | 1 | 0.898 |
| MAX ENT | 88.462 | 82.157 | 0.916 | 0.914 |
| GLM | 94.231 | 74.971 | 0.906 | 0.918 |
| GBM | 100 | 94.714 | 0.986 | 0.927 |
| GAM | 100 | 92.943 | 0.966 | 0.907 |
| SRE | 65.385 | 71.971 | 0.687 | 0.656 |
| RF | 100 | 99.957 | 1 | 0.919 |
| MAX ENT | 92.308 | 76 | 0.916 | 0.922 |

**Table S5.** Area and percentage of each Land use/Land cover (LULC) class identified in the potential distribution area of *Leptonycteris curasaoe*

|  |  |  |
| --- | --- | --- |
| **LULC class** | **Area (km2)** | **% area** |
| Water | 2,085.54 | 2.61 |
| Trees | 32,050.31 | 40.15 |
| Flooded vegetation | 869.83 | 1.09 |
| Rangeland | 38,027.60 | 47.64 |
| Crops | 2,284.90 | 2.86 |
| Built area | 3,491.53 | 4.37 |
| Bare ground | 924.79 | 1.16 |
| Clouds | 85.64 | 0.11 |
| Snow/Ice | 0.01 | 0.00 |

**Table S6.** Name, category, type, IUCN area category, and country of the protected natural areas that overlap (area in km2) with the potential distribution of *Leptonycteris curasoae*.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Category** | **Type** | **IUCN area category** | **Country** | **Overlapped area (km2)** |
| Arirok National Park | National Park | National | II | Aruba | 33.97 |
| Bonaire | National Marine Park | National | II | Bonaire | 10.56 |
| Flamingo (Bonaire) Sanctuary | Private Reserve | National | Ia | Bonaire | 0.55 |
| Washington Slagbaai Park | Park | National | II | Bonaire | 41.31 |
| Curaí§ao | Underwater Park | National | II | Curaçao | 21.93 |
| Shete Boka Park | National Park | National | II | Curaçao | 1.74 |
| Hermanus | National Park | National | II | Curaçao | 1.57 |
| Daaibooi | National Park | National | II | Curaçao | 1.95 |
| Kabouterbos | National Park | National | II | Curaçao | 0.37 |
| Midden Seinpost/Roi Santuary | National Park | National | II | Curaçao | 0.14 |
| Hoffi Pastoor | National Park | National | II | Curaçao | 0.16 |
| Cerro la Judía | Regional Natural Parks | National | II | Colombia | 1.69 |
| Paramo de Rabanal | Regional Natural Parks | National | II | Colombia | 0.38 |
| Montes de Oca | Regional Protective Forest Reserves | National | VI | Colombia | 22.91 |
| Manantial de Cañaverales | Regional Protective Forest Reserves | National | VI | Colombia | 10.01 |
| Paramo de Rabanal | Regional Protective Forest Reserves | National | VI | Colombia | 1.53 |
| Lago de Sochagota | Integrated Management Regional Districts | National | VI | Colombia | 22.19 |
| Serranía de Perijá | Integrated Management Regional Districts | National | VI | Colombia | 151.42 |
| Musichi | Integrated Management Regional Districts | National | VI | Colombia | 4.66 |
| Serranía de los Yariguíes | Integrated Management Regional Districts | National | VI | Colombia | 389.23 |
| Manglar de la Bahía de Cispata y Sector Aledaño del Delta Estuarino del Río Sinú | Integrated Management Regional Districts | National | VI | Colombia | 109.78 |
| Parque Ambiental Palangana | Civil Society Nature Reserve | National | VI | Colombia | 0.13 |
| Sanguaré | Civil Society Nature Reserve | National | VI | Colombia | 6.48 |
| La Iguana Verde | Civil Society Nature Reserve | National | VI | Colombia | 0.12 |
| San Martín | Civil Society Nature Reserve | National | VI | Colombia | 0.13 |
| Bahía Portete Kaurrele | National Natural Park | National | II | Colombia | 22.5 |
| El Palomar | Regional Protective Forest Reserves | National | VI | Colombia | 1.86 |
| De Bucaramanga | Integrated Management Regional Districts | National | VI | Colombia | 43.41 |
| Bañaderos Cuenca Alta del Río Camarones | Integrated Management Regional Districts | National | VI | Colombia | 35.45 |
| Ciénaga Grande de Santa Marta | Fauna and Flora Sanctuary | National | IV | Colombia | 13.2 |
| Iguaque | Fauna and Flora Sanctuary | National | IV | Colombia | 15.85 |
| Macuira | National Natural Park | National | II | Colombia | 240.5 |
| Isla de Salamanca | Park Way | National | III | Colombia | 271.1 |
| Tayrona | National Natural Park | National | II | Colombia | 80.82 |
| Los Corales del Rosaeío y San Bernardo | National Natural Park | National | II | Colombia | 6.26 |
| Catatumbo Barí | National Natural Park | National | II | Colombia | 0.27 |
| El Malmo | National Protective Forest Reserves | National | VI | Colombia | 0.13 |
| Ciénaga Grande De Santa Marta | Specially Protected Area (Cartagena Convention) | Regional | IV | Colombia | 12.94 |
| Complejo Lagunar Fúquene, Cucunubá y Palacio | Integrated Management Regional Districts | National | VI | Colombia | 11.18 |
| Nido de Águilas | Civil Society Nature Reserve | National | VI | Colombia | 0.01 |
| Cuenca baja del Río Rancheríaa | Integrated Management Regional Districts | National | VI | Colombia | 195.86 |
| Delta del Río Ranchería | Integrated Management Regional Districts | National | VI | Colombia | 30.03 |
| Angula Alta - Humedal El Pantano | Integrated Management Regional Districts | National | VI | Colombia | 25.02 |
| Bioparque Moncora | Civil Society Nature Reserve | National | VI | Colombia | 0.01 |
| Ananda | Civil Society Nature Reserve | National | VI | Colombia | 0.04 |
| KPL | Civil Society Nature Reserve | National | VI | Colombia | 0.07 |
| De las Aves Cucarachero Chicamocha - Predio Lagunetas | Civil Society Nature Reserve | National | VI | Colombia | 5.22 |
| Robledales | Civil Society Nature Reserve | National | VI | Colombia | 0.09 |
| Khepri | Civil Society Nature Reserve | National | VI | Colombia | 0.01 |
| Pastos Marinos Sawairu | Integrated Management Regional Districts | National | VI | Colombia | 4.9 |
| Reserva El Tamarín | Civil Society Nature Reserve | National | VI | Colombia | 0.43 |
| Rincon de las Vegas | Civil Society Nature Reserve | National | VI | Colombia | 0.12 |
| La Cueva | Civil Society Nature Reserve | National | VI | Colombia | 0.03 |
| Ernesto Jimenez Lozada | Civil Society Nature Reserve | National | VI | Colombia | 0.01 |
| La Victoria | Civil Society Nature Reserve | National | VI | Colombia | 0.09 |
| Las Tetas de María Guevara | Natural Monument (MN) | National | III | Venezuela | 15.37 |
| Cerro Santa Ana | Natural Monument (MN) | National | III | Venezuela | 19.76 |
| Laguna de Las Marites | Natural Monument (MN) | National | III | Venezuela | 26.09 |
| Cerros Matasiete y Guayamurá | Natural Monument (MN) | National | III | Venezuela | 16.46 |
| Sierra Nevada | National Park (PN) | National | II | Venezuela | 15.19 |
| Henri Pittier | National Park (PN) | National | II | Venezuela | 853.99 |
| Mochima | National Park (PN) | National | II | Venezuela | 183.57 |
| Guatopo | National Park (PN) | National | II | Venezuela | 10.52 |
| Waraira Repano | National Park (PN) | National | II | Venezuela | 153.4 |
| Península de Paria | National Park (PN) | National | II | Venezuela | 176.13 |
| Yurubí | National Park (PN) | National | II | Venezuela | 0.04 |
| Laguna de Tacarigua | National Park (PN) | National | II | Venezuela | 187.05 |
| Laguna de La Restinga | National Park (PN) | National | II | Venezuela | 107 |
| Cueva de la Quebrada El Toro | National Park (PN) | National | II | Venezuela | 0.41 |
| Cerro El Copey - Jávito Villalba | National Park (PN) | National | II | Venezuela | 74.08 |
| Cuare | Wildlife Refuge (RFS) | National | IV | Venezuela | 92.99 |
| Medanos de Coro | National Park (PN) | National | II | Venezuela | 164.66 |
| Morrocoy | National Park (PN) | National | II | Venezuela | 86.87 |
| Laguna de Urao | Natural Monument (MN) | National | III | Venezuela | 0.45 |
| San Esteban | National Park (PN) | National | II | Venezuela | 348.51 |
| Burro Negro | National Hydraulic Reserve (RNH) | National | VI | Venezuela | 11.2 |
| Río Tocuyo | Forest Reserve (RF) | National | VI | Venezuela | 273.38 |
| Loma de León | Natural Monument (MN) | National | III | Venezuela | 17 |
| Juan Crisóstomo Falcón en la Sierra de San Luis | National Park (PN) | National | II | Venezuela | 87.51 |
| General Juan Pablo Peñaloza en los Páramos del Batallón y La Negra | National Park (PN) | National | II | Venezuela | 1.48 |
| Zona Sur Lago de Maracaibo | National Hydraulic Reserve (RNH) | National | VI | Venezuela | 2999.02 |
| Cuenca del Río Sanchón | National Hydraulic Reserve (RNH) | National | VI | Venezuela | 45.09 |
| Cuenca Hidrográfica del río Capravera | National Hydraulic Reserve (RNH) | National | VI | Venezuela | 32.04 |
| Distritos Maturín. Cedeño, Piar y Caripe del Estado Monagas y de los Distritos Mates y Rivero del Estado Sucre | National Hydraulic Reserve (RNH) | National | VI | Venezuela | 736.18 |
| Valle del Quíbor | National Hydraulic Reserve (RNH) | National | VI | Venezuela | 579.51 |
| Ciénagas de Juan Manuel | National Park (PN) | National | II | Venezuela | 0 |
| Turuépano | National Park (PN) | National | II | Venezuela | 66.32 |
| Cerro Saroche | National Park (PN) | National | II | Venezuela | 361.4 |
| Dr. Antonio José Uzcétegui Burguera (Sierra de la Culata) | National Park (PN) | National | II | Venezuela | 31.89 |
| Valle del río Guarapiche | Rural Integrated Development Area (ARDI) | National | VI | Venezuela | 533.44 |
| Distrito Mara | Agricultural Development Zone (ZAA) | National | VI | Venezuela | 109.62 |
| Distritos Acevedo, Brión y Páez (Barlovento) | Agricultural Development Zone (ZAA) | National | VI | Venezuela | 395.59 |
| Laguna de Boca de Caño | Wildlife Refuge (RFS) | National | IV | Venezuela | 4.37 |
| Ciénaga de Los Olivitos | Wildlife Refuge (RFS) | National | IV | Venezuela | 131.78 |
| Valle del río Aroa | Rural Integrated Development Area (ARDI) | National | VI | Venezuela | 1590.18 |
| Valle de Atamo | Rural Integrated Development Area (ARDI) | National | VI | Venezuela | 129.89 |
| Refugio de Fauna Silvestre de Cuare | Ramsar Site, Wetland of International Importance | International | IV | Venezuela | 92.99 |
| Páramo La Laja | Forest Area Under Protection (ABBP) | National | V | Venezuela | 1.95 |
| Nirgua - Aroa | Forest Area Under Protection (ABBP) | National | V | Venezuela | 676.69 |
| río Los Remedios | Forest Area Under Protection (ABBP) | National | V | Venezuela | 808.83 |
| ríoTucurere | Forest Area Under Protection (ABBP) | National | V | Venezuela | 601.13 |
| Depresión Turbio - Yaracuy | Agricultural Development Zone (ZAA) | National | VI | Venezuela | 73.52 |
| Hueque - Sauca | Wildlife Reserve (REFA) | National | IV | Venezuela | 300.09 |
| Refugio de Fauna silvestre y Reserva de Pesca Ciénaga de Los Olivitos | Ramsar Site, Wetland of International Importance | International | IV | Venezuela | 131.78 |
| Laguna de La Restinga | Ramsar Site, Wetland of International Importance | International | II | Venezuela | 107 |
| Laguna de Tacarigua | Ramsar Site, Wetland of International Importance | International | II | Venezuela | 187.05 |
| Valle de Quíbor | Rural Integrated Development Area (ARDI) | National | VI | Venezuela | 387.02 |
| Península de La Cabrera | Environmental Protection and Recovery Area (APRA) | National | VI | Venezuela | 5.29 |
| Riberas del Lago de Valencia | Environmental Protection and Recovery Area (APRA) | National | VI | Venezuela | 18.19 |
| El Ávila | Environmental Protection and Recovery Area (APRA) | National | VI | Venezuela | 3.87 |
| Vertiente Norte del Estado Vargas | Environmental Protection and Recovery Area (APRA) | National | VI | Venezuela | 98.85 |
| Eje Costero Arapo - Santa Fe | Environmental Protection and Recovery Area (APRA) | National | VI | Venezuela | 16.82 |
| Puerto América | Deep Water Marine Coast (CMAP) | National | VI | Venezuela | 42.88 |
| Tucurere | Wildlife Reserve (REFA) | National | IV | Venezuela | 217.75 |
| Aguas Calientes | National Hydraulic Reserve (RNH) | National | VI | Venezuela | 28.77 |
| Páramo La Laja | National Hydraulic Reserve (RNH) | National | VI | Venezuela | 3.85 |
| Cuevas de Paraguaná | Wildlife Sanctuary (SFS) | National | III | Venezuela | 0.54 |
| Montecano | Natural Monument (MN) | National | III | Venezuela | 25.72 |
| Utilidad Pública y de Interés Turístico Recreacional Popular, terreno ubicado en el Distrito Páez (Puerto Tuy - Caí±o Copey) | Tourist Interest Area (ZIT) | National | V | Venezuela | 1.74 |
| Utilidad Pública y de Interés Turístico Recreacional Alrededor de San Antonio del Golfo Distrito Mejía | Tourist Interest Area (ZIT) | National | V | Venezuela | 12.83 |
| Porciones de TerritoRío Ccomprendidas entre los Centros Poblados de San Juan de los Cayos - Chichiriviche y El Cruce - Tucacas - Boca de Yaracuy | Tourist Interest Area (ZIT) | National | V | Venezuela | 143.84 |
| Utilidad Pública y de Interés Turístico Recreacional Franja Costera entre La Esmeralda - Carúpano | Tourist Interest Area (ZIT) | National | V | Venezuela | 49.8 |
| Utilidad Pública y de Interés Turístico Recreacional Orilla de Laguna Grande en la Península de Araya | Tourist Interest Area (ZIT) | National | V | Venezuela | 8.05 |
| Utilidad Pública y de Interés Turístico Recreacional Sectores Punta El Escarpado - Playa San Luis | Tourist Interest Area (ZIT) | National | V | Venezuela | 185.43 |
| Zona de Interés Turístico, Sector El Yaque | Tourist Interest Area (ZIT) | National | V | Venezuela | 2.38 |
| Zona de Utilidad Pública y de Interés Turístico Recreacional La Península de Paraguaná | Tourist Interest Area (ZIT) | National | V | Venezuela | 2679.65 |
| Zona de Utilidad Pública y de Interés Turístico Recreacional Laguna El Paraíso (Laguna El Maguey) | Tourist Interest Area (ZIT) | National | V | Venezuela | 1.13 |
| Utilidad Pública y de Interés Turístico Recreacional El Litoral de la Región Capital (Estado La Guaira - Estado Miranda) | Tourist Interest Area (ZIT) | National | V | Venezuela | 82.51 |
| Zona de Interés Turístico y de Utilidad Pública Punta Cabo Blanco - Punta Cazonero (Playa El Agua) | Tourist Interest Area (ZIT) | National | V | Venezuela | 4.48 |
| Dependencias Federales: Isla La Tortuga, Las Tortuguillas, Cayo Herradura, los Palanquines, y su Espacio Acuático Asociado | Tourist Interest Area (ZIT) | National | V | Venezuela | 136.93 |
| Embalse La Corcovada | Reserve Area for the Construction of Dams and Reservoirs (ZRCE) | National | VI | Venezuela | 31.14 |
| Depresión de Quíbor | Agricultural Development Zone (ZAA) | National | VI | Venezuela | 228.23 |
| Isla Cubagua | Forest Reserve (RF) | National | VI | Venezuela | 21.45 |

**Table S7.** Records of threats (mining, windfarms, tourism, and roost vandalism) observed in the countries where *Leptonycteris curasoae* is distributed.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Source** | **Country** | **State** | **Locality** | **Latitude** | **Longitude** | **Threat** | **Overlap with potential distribution** |
| a1 | mining and energy planning unit 2023 | Colombia | Atlantico | Barranquilla | 10.98 | -74.79 | windfarm | yes |
| a2 | mining and energy planning unit 2023 | Colombia | Atlantico | Juan de acosta | 10.83 | -75.04 | windfarm | yes |
| a3 | mining and energy planning unit 2023 | Colombia | Atlantico | Piojo | 10.75 | -75.11 | windfarm | yes |
| a4 | mining and energy planning unit 2023 | Colombia | Atlantico | Tubara | 10.88 | -74.98 | windfarm | yes |
| a5 | mining and energy planning unit 2023 | Colombia | Bolivar | Cartagena | 10.42 | -75.53 | windfarm | yes |
| a6 | mining and energy planning unit 2023 | Colombia | Bolivar | Santa catalina | 10.6 | -75.29 | windfarm | yes |
| a7 | mining and energy planning unit 2023 | Colombia | Boyaca | Raquira | 5.54 | -73.63 | windfarm | yes |
| a8 | mining and energy planning unit 2023 | Colombia | Boyaca | Sachica | 5.59 | -73.54 | windfarm | yes |
| a9 | mining and energy planning unit 2023 | Colombia | Boyaca | Samaca | 5.49 | -73.48 | windfarm | yes |
| a10 | mining and energy planning unit 2023 | Colombia | Cordoba | Buenavista | 8.23 | -75.48 | windfarm | no |
| a11 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Bogota | 4.66 | -74.12 | windfarm | no |
| a12 | mining and energy planning unit 2023 | Colombia | La guajira | Barrancas | 10.96 | -72.79 | windfarm | yes |
| a13 | mining and energy planning unit 2023 | Colombia | La guajira | Fonseca | 10.89 | -72.85 | windfarm | yes |
| a14 | mining and energy planning unit 2023 | Colombia | La guajira | Maicao | 11.38 | -72.24 | windfarm | yes |
| a15 | mining and energy planning unit 2023 | Colombia | La guajira | Manaure | 11.77 | -72.44 | windfarm | yes |
| a16 | mining and energy planning unit 2023 | Colombia | La guajira | Riohacha | 11.53 | -72.93 | windfarm | yes |
| a17 | mining and energy planning unit 2023 | Colombia | La guajira | San juan del cesar | 10.77 | -73 | windfarm | yes |
| a18 | mining and energy planning unit 2023 | Colombia | La guajira | Uribia | 11.71 | -72.26 | windfarm | yes |
| a19 | mining and energy planning unit 2023 | Colombia | Magdalena | Santa marta | 11.25 | -74.21 | windfarm | yes |
| a20 | mining and energy planning unit 2023 | Colombia | Magdalena | Sitionuevo | 10.78 | -74.72 | windfarm | no |
| a21 | mining and energy planning unit 2023 | Colombia | Antioquia | Amalfi | 6.93076 | -74.96503 | mining | no |
| a22 | mining and energy planning unit 2023 | Colombia | Antioquia | Andes | 5.64073 | -75.89204 | mining | no |
| a23 | mining and energy planning unit 2023 | Colombia | Antioquia | Angelópolis | 6.13081 | -75.71797 | mining | no |
| a24 | mining and energy planning unit 2023 | Colombia | Antioquia | Buriticá | 6.78914 | -75.89264 | mining | no |
| a25 | mining and energy planning unit 2023 | Colombia | Antioquia | La unión | 5.96075 | -75.35029 | mining | no |
| a26 | mining and energy planning unit 2023 | Colombia | Antioquia | Maceo | 6.5146 | -74.70821 | mining | no |
| a27 | mining and energy planning unit 2023 | Colombia | Antioquia | Puerto nare | 6.07241 | -74.70064 | mining | no |
| a28 | mining and energy planning unit 2023 | Colombia | Antioquia | Puerto triunfo | 5.99998 | -74.71628 | mining | no |
| a29 | mining and energy planning unit 2023 | Colombia | Antioquia | Rionegro | 6.15644 | -75.39337 | mining | no |
| a30 | mining and energy planning unit 2023 | Colombia | Antioquia | San carlos | 6.22344 | -74.95403 | mining | no |
| a31 | mining and energy planning unit 2023 | Colombia | Antioquia | San carlos | 6.22344 | -74.95403 | mining | no |
| a32 | mining and energy planning unit 2023 | Colombia | Antioquia | Sonsón | 5.76735 | -75.03236 | mining | no |
| a33 | mining and energy planning unit 2023 | Colombia | Antioquia | Titiribí | 6.06714 | -75.77723 | mining | no |
| a34 | mining and energy planning unit 2023 | Colombia | Antioquia | Valparaíso | 5.63538 | -75.63872 | mining | no |
| a35 | mining and energy planning unit 2023 | Colombia | Antioquia | Venecia | 5.95688 | -75.77137 | mining | no |
| a36 | mining and energy planning unit 2023 | Colombia | Atlantico | Luruaco | 10.64291 | -75.15426 | mining | no |
| a37 | mining and energy planning unit 2023 | Colombia | Atlantico | Puerto colombia | 11.00991 | -74.91204 | mining | yes |
| a38 | mining and energy planning unit 2023 | Colombia | Atlantico | Repelón | 10.51924 | -75.15511 | mining | no |
| a39 | mining and energy planning unit 2023 | Colombia | Atlantico | Sabanagrande | 10.79637 | -74.77754 | mining | no |
| a40 | mining and energy planning unit 2023 | Colombia | Atlantico | Sabanalarga | 10.63703 | -74.96935 | mining | no |
| a41 | mining and energy planning unit 2023 | Colombia | Atlantico | Tubará | 10.88633 | -74.99868 | mining | yes |
| a42 | mining and energy planning unit 2023 | Colombia | Bolivar | Arroyohondo | 10.24454 | -75.03783 | mining | no |
| a43 | mining and energy planning unit 2023 | Colombia | Bolivar | Mahates | 10.19637 | -75.16707 | mining | no |
| a44 | mining and energy planning unit 2023 | Colombia | Bolivar | San juan nepomuceno | 9.967 | -75.07889 | mining | no |
| a45 | mining and energy planning unit 2023 | Colombia | Bolivar | Turbaco | 10.35285 | -75.36157 | mining | no |
| a46 | mining and energy planning unit 2023 | Colombia | Boyaca | Arcabuco | 5.76229 | -73.44946 | mining | no |
| a47 | mining and energy planning unit 2023 | Colombia | Boyaca | Betéitiva | 5.92416 | -72.84288 | mining | no |
| a48 | mining and energy planning unit 2023 | Colombia | Boyaca | Boavita | 6.34585 | -72.62106 | mining | yes |
| a49 | mining and energy planning unit 2023 | Colombia | Boyaca | Busbanzá | 5.8498 | -72.87021 | mining | no |
| a50 | mining and energy planning unit 2023 | Colombia | Boyaca | Chita | 6.06181 | -72.44014 | mining | no |
| a51 | mining and energy planning unit 2023 | Colombia | Boyaca | Chitaraque | 5.9653 | -73.4008 | mining | no |
| a52 | mining and energy planning unit 2023 | Colombia | Boyaca | Chivatá | 5.57654 | -73.25601 | mining | no |
| a53 | mining and energy planning unit 2023 | Colombia | Boyaca | Cogua | 5.1108 | -73.98636 | mining | no |
| a54 | mining and energy planning unit 2023 | Colombia | Boyaca | Corrales | 5.82955 | -72.84076 | mining | no |
| a55 | mining and energy planning unit 2023 | Colombia | Boyaca | Corrales | 5.82955 | -72.84076 | mining | no |
| a56 | mining and energy planning unit 2023 | Colombia | Boyaca | Corrales | 5.82955 | -72.84076 | mining | no |
| a57 | mining and energy planning unit 2023 | Colombia | Boyaca | Duitama | 5.88354 | -73.0675 | mining | no |
| a58 | mining and energy planning unit 2023 | Colombia | Boyaca | Firavitoba | 5.67131 | -73.02861 | mining | no |
| a59 | mining and energy planning unit 2023 | Colombia | Boyaca | Gachantivá | 5.75083 | -73.54406 | mining | yes |
| a60 | mining and energy planning unit 2023 | Colombia | Boyaca | Gámeza | 5.79719 | -72.73773 | mining | no |
| a61 | mining and energy planning unit 2023 | Colombia | Boyaca | Garagoa | 5.08819 | -73.31257 | mining | no |
| a62 | mining and energy planning unit 2023 | Colombia | Boyaca | Guachené | 3.14345 | -76.38858 | mining | no |
| a63 | mining and energy planning unit 2023 | Colombia | Boyaca | Iza | 5.6232 | -72.95896 | mining | no |
| a64 | mining and energy planning unit 2023 | Colombia | Boyaca | Jericó | 6.13985 | -72.55836 | mining | no |
| a65 | mining and energy planning unit 2023 | Colombia | Boyaca | La uvita | 6.24885 | -72.56198 | mining | yes |
| a66 | mining and energy planning unit 2023 | Colombia | Boyaca | Mongua | 5.71877 | -72.65366 | mining | no |
| a67 | mining and energy planning unit 2023 | Colombia | Boyaca | Moniquirá | 5.85104 | -73.55221 | mining | no |
| a68 | mining and energy planning unit 2023 | Colombia | Boyaca | Motavita | 5.59912 | -73.37942 | mining | no |
| a69 | mining and energy planning unit 2023 | Colombia | Boyaca | Nobsa | 5.77266 | -72.94519 | mining | no |
| a70 | mining and energy planning unit 2023 | Colombia | Boyaca | Nobsa | 5.77266 | -72.94519 | mining | no |
| a71 | mining and energy planning unit 2023 | Colombia | Boyaca | Oicatá | 5.61918 | -73.27635 | mining | yes |
| a72 | mining and energy planning unit 2023 | Colombia | Boyaca | Paipa | 5.8138 | -73.13627 | mining | yes |
| a73 | mining and energy planning unit 2023 | Colombia | Boyaca | Paipa | 5.8138 | -73.13627 | mining | yes |
| a74 | mining and energy planning unit 2023 | Colombia | Boyaca | Paz de río | 6.01787 | -72.77198 | mining | no |
| a75 | mining and energy planning unit 2023 | Colombia | Boyaca | Pesca | 5.52935 | -73.05724 | mining | no |
| a76 | mining and energy planning unit 2023 | Colombia | Boyaca | Pesca | 5.52935 | -73.05724 | mining | no |
| a77 | mining and energy planning unit 2023 | Colombia | Boyaca | Ráquira | 5.49511 | -73.6206 | mining | yes |
| a78 | mining and energy planning unit 2023 | Colombia | Boyaca | Rondón | 5.36516 | -73.20103 | mining | no |
| a79 | mining and energy planning unit 2023 | Colombia | Boyaca | Sáchica | 5.58033 | -73.5432 | mining | yes |
| a80 | mining and energy planning unit 2023 | Colombia | Boyaca | Samacá | 5.46885 | -73.53398 | mining | yes |
| a81 | mining and energy planning unit 2023 | Colombia | Boyaca | San mateo | 6.40767 | -72.56389 | mining | yes |
| a82 | mining and energy planning unit 2023 | Colombia | Boyaca | Sativanorte | 6.13992 | -72.74862 | mining | no |
| a83 | mining and energy planning unit 2023 | Colombia | Boyaca | Sativasur | 6.06105 | -72.70814 | mining | yes |
| a84 | mining and energy planning unit 2023 | Colombia | Boyaca | Socha | 5.98695 | -72.68582 | mining | no |
| a85 | mining and energy planning unit 2023 | Colombia | Boyaca | Socotá | 5.899 | -72.55589 | mining | no |
| a86 | mining and energy planning unit 2023 | Colombia | Boyaca | Sogamoso | 5.67258 | -72.8827 | mining | no |
| a87 | mining and energy planning unit 2023 | Colombia | Boyaca | Sogamoso | 5.67258 | -72.8827 | mining | no |
| a88 | mining and energy planning unit 2023 | Colombia | Boyaca | Sogamoso | 5.67258 | -72.8827 | mining | no |
| a89 | mining and energy planning unit 2023 | Colombia | Boyaca | Sogamoso | 5.67258 | -72.8827 | mining | no |
| a90 | mining and energy planning unit 2023 | Colombia | Boyaca | Sotaquirá | 5.75614 | -73.23901 | mining | yes |
| a91 | mining and energy planning unit 2023 | Colombia | Boyaca | Tasco | 5.90062 | -72.72753 | mining | no |
| a92 | mining and energy planning unit 2023 | Colombia | Boyaca | Tasco | 5.90062 | -72.72753 | mining | no |
| a93 | mining and energy planning unit 2023 | Colombia | Boyaca | Tausa | 5.18477 | -73.94598 | mining | no |
| a94 | mining and energy planning unit 2023 | Colombia | Boyaca | Tibasosa | 5.74617 | -72.99369 | mining | no |
| a95 | mining and energy planning unit 2023 | Colombia | Boyaca | Tópaga | 5.76256 | -72.84669 | mining | no |
| a96 | mining and energy planning unit 2023 | Colombia | Boyaca | Tunja | 5.52717 | -73.37144 | mining | yes |
| a97 | mining and energy planning unit 2023 | Colombia | Boyaca | Tunja | 5.52717 | -73.37144 | mining | yes |
| a98 | mining and energy planning unit 2023 | Colombia | Boyaca | Tunja | 5.52717 | -73.37144 | mining | yes |
| a99 | mining and energy planning unit 2023 | Colombia | Boyaca | Tuta | 5.6621 | -73.18359 | mining | yes |
| a100 | mining and energy planning unit 2023 | Colombia | Boyaca | Tuta | 5.6621 | -73.18359 | mining | yes |
| a101 | mining and energy planning unit 2023 | Colombia | Boyaca | Úmbita | 5.25201 | -73.45246 | mining | no |
| a102 | mining and energy planning unit 2023 | Colombia | Boyaca | Úmbita | 5.25201 | -73.45246 | mining | no |
| a103 | mining and energy planning unit 2023 | Colombia | Boyaca | Villa de leyva | 5.67394 | -73.52028 | mining | yes |
| a104 | mining and energy planning unit 2023 | Colombia | Caldas | Aguadas | 5.54554 | -75.41389 | mining | no |
| a105 | mining and energy planning unit 2023 | Colombia | Caldas | Neira | 5.1659 | -75.51082 | mining | no |
| a106 | mining and energy planning unit 2023 | Colombia | Caldas | Supía | 5.47647 | -75.65276 | mining | no |
| a107 | mining and energy planning unit 2023 | Colombia | Caldas | Victoria | 5.46494 | -74.79615 | mining | no |
| a108 | mining and energy planning unit 2023 | Colombia | Caldas | Victoria | 5.46494 | -74.79615 | mining | no |
| a109 | mining and energy planning unit 2023 | Colombia | Cauca | Guachené | 3.14345 | -76.38858 | mining | no |
| a110 | mining and energy planning unit 2023 | Colombia | Cauca | Santander de quilichao | 2.97537 | -76.5039 | mining | no |
| a111 | mining and energy planning unit 2023 | Colombia | Cauca | Santander de quilichao | 2.97537 | -76.5039 | mining | no |
| a112 | mining and energy planning unit 2023 | Colombia | Cauca | Toribío | 2.92519 | -76.26119 | mining | no |
| a113 | mining and energy planning unit 2023 | Colombia | Cauca | Villa rica | 3.16799 | -76.46259 | mining | no |
| a114 | mining and energy planning unit 2023 | Colombia | Cauca | Villa rica | 3.16799 | -76.46259 | mining | no |
| a115 | mining and energy planning unit 2023 | Colombia | Cesar | Becerril | 9.69715 | -73.46316 | mining | yes |
| a116 | mining and energy planning unit 2023 | Colombia | Cesar | Bosconia | 9.95081 | -73.86642 | mining | no |
| a117 | mining and energy planning unit 2023 | Colombia | Cesar | Chimichagua | 9.22612 | -73.73924 | mining | no |
| a118 | mining and energy planning unit 2023 | Colombia | Cesar | Curumaní | 9.24377 | -73.58084 | mining | no |
| a119 | mining and energy planning unit 2023 | Colombia | Cesar | La jagua de ibirico | 9.54737 | -73.36905 | mining | no |
| a120 | mining and energy planning unit 2023 | Colombia | Cesar | Manaure balcón del cesar | 10.38402 | -72.98716 | mining | no |
| a121 | mining and energy planning unit 2023 | Colombia | Cesar | San diego | 10.12938 | -73.35176 | mining | no |
| a122 | mining and energy planning unit 2023 | Colombia | Cesar | Valledupar | 10.43 | -73.25 | mining | no |
| a123 | mining and energy planning unit 2023 | Colombia | Cesar | Valledupar | 10.41463 | -73.48403 | mining | no |
| a124 | mining and energy planning unit 2023 | Colombia | Cesar | Valledupar | 10.41463 | -73.48403 | mining | no |
| a125 | mining and energy planning unit 2023 | Colombia | Cesar | Valledupar | 10.41463 | -73.48403 | mining | no |
| a126 | mining and energy planning unit 2023 | Colombia | Cordoba | La apartada | 8.02795 | -75.32496 | mining | no |
| a127 | mining and energy planning unit 2023 | Colombia | Cordoba | Los córdobas | 8.87273 | -76.28168 | mining | no |
| a128 | mining and energy planning unit 2023 | Colombia | Cordoba | Momil | 9.30521 | -75.62836 | mining | no |
| a129 | mining and energy planning unit 2023 | Colombia | Cordoba | Montería | 8.53983 | -75.89915 | mining | no |
| a130 | mining and energy planning unit 2023 | Colombia | Cordoba | Montería | 8.53983 | -75.89915 | mining | no |
| a131 | mining and energy planning unit 2023 | Colombia | Cordoba | Planeta rica | 8.33443 | -75.59471 | mining | no |
| a132 | mining and energy planning unit 2023 | Colombia | Cordoba | Puerto libertador | 7.78957 | -75.70824 | mining | no |
| a133 | mining and energy planning unit 2023 | Colombia | Cordoba | Valencia | 8.28197 | -76.18744 | mining | no |
| a134 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Bogotá, d.c. | 4.40102 | -74.17805 | mining | no |
| a135 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Bogotá, d.c. | 4.40102 | -74.17805 | mining | no |
| a136 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Cogua | 5.1108 | -73.98636 | mining | no |
| a137 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Cogua | 5.1108 | -73.98636 | mining | no |
| a138 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Cucunubá | 5.22354 | -73.77384 | mining | no |
| a139 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Girardot | 4.34478 | -74.78356 | mining | no |
| a140 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Guachetá | 5.39679 | -73.67774 | mining | yes |
| a141 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Guasca | 4.79514 | -73.85829 | mining | no |
| a142 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Guatavita | 4.90795 | -73.79035 | mining | no |
| a143 | mining and energy planning unit 2023 | Colombia | Cundinamarca | La calera | 4.6981 | -73.93408 | mining | no |
| a144 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Lenguazaque | 5.30485 | -73.65348 | mining | yes |
| a145 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Lenguazaque | 5.30485 | -73.65348 | mining | yes |
| a146 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Nemocón | 5.10405 | -73.88352 | mining | no |
| a147 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Nemocón | 5.10405 | -73.88352 | mining | no |
| a148 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Nemocón | 5.10405 | -73.88352 | mining | no |
| a149 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Pacho | 5.20192 | -74.17957 | mining | no |
| a150 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Pacho | 5.20192 | -74.17957 | mining | no |
| a151 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Paime | 5.3891 | -74.15906 | mining | no |
| a152 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Pasca | 4.31921 | -74.28139 | mining | no |
| a153 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Ricaurte | 4.32239 | -74.74652 | mining | no |
| a154 | mining and energy planning unit 2023 | Colombia | Cundinamarca | San antonio del tequendama | 4.61033 | -74.35741 | mining | no |
| a155 | mining and energy planning unit 2023 | Colombia | Cundinamarca | San cayetano | 6.12714 | -73.61702 | mining | no |
| a156 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Sibaté | 4.46205 | -74.25688 | mining | no |
| a157 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Silvania | 4.42273 | -74.36681 | mining | no |
| a158 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Soacha | 4.53757 | -74.22636 | mining | no |
| a159 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Soacha | 4.53757 | -74.22636 | mining | no |
| a160 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Soacha | 4.53757 | -74.22636 | mining | no |
| a161 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Suesca | 5.13146 | -73.78767 | mining | no |
| a162 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Sutatausa | 5.24206 | -73.86124 | mining | no |
| a163 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Tausa | 5.18477 | -73.94598 | mining | no |
| a164 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Tausa | 5.18477 | -73.94598 | mining | no |
| a165 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Tocancipá | 4.97198 | -73.92877 | mining | no |
| a166 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Zipaquirá | 5.04353 | -74.01125 | mining | no |
| a167 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Zipaquirá | 5.04353 | -74.01125 | mining | no |
| a168 | mining and energy planning unit 2023 | Colombia | Cundinamarca | Zipaquirá | 5.04353 | -74.01125 | mining | no |
| a169 | mining and energy planning unit 2023 | Colombia | Huila | Aipe | 3.23571 | -75.40661 | mining | no |
| a170 | mining and energy planning unit 2023 | Colombia | Huila | Campoalegre | 2.62506 | -75.32273 | mining | no |
| a171 | mining and energy planning unit 2023 | Colombia | Huila | Palermo | 2.92042 | -75.44645 | mining | no |
| a172 | mining and energy planning unit 2023 | Colombia | Huila | Palermo | 2.92042 | -75.44645 | mining | no |
| a173 | mining and energy planning unit 2023 | Colombia | Huila | San agustín | 1.965 | -76.39036 | mining | no |
| a174 | mining and energy planning unit 2023 | Colombia | Huila | Santa maría | 2.92799 | -75.59901 | mining | no |
| a175 | mining and energy planning unit 2023 | Colombia | La guajira | Albania | 11.21352 | -72.54328 | mining | yes |
| a176 | mining and energy planning unit 2023 | Colombia | La guajira | Albania | 1.20276 | -75.84085 | mining | no |
| a177 | mining and energy planning unit 2023 | Colombia | La guajira | Barrancas | 10.96581 | -72.71156 | mining | yes |
| a178 | mining and energy planning unit 2023 | Colombia | La guajira | Barrancas | 10.96581 | -72.71156 | mining | yes |
| a179 | mining and energy planning unit 2023 | Colombia | La guajira | Uribia | 11.714 | -72.265 | mining | yes |
| a180 | mining and energy planning unit 2023 | Colombia | La guajira | Uribia | 12.1231 | -71.7614 | mining | yes |
| a181 | mining and energy planning unit 2023 | Colombia | Magdalena | Ariguaní | 9.78723 | -74.0465 | mining | no |
| a182 | mining and energy planning unit 2023 | Colombia | Magdalena | Ciénaga | 11.006 | -74.241 | mining | no |
| a183 | mining and energy planning unit 2023 | Colombia | Magdalena | Ciénaga | 10.88939 | -74.05812 | mining | no |
| a184 | mining and energy planning unit 2023 | Colombia | Magdalena | Santa marta | 11.15933 | -73.97926 | mining | no |
| a185 | mining and energy planning unit 2023 | Colombia | Meta | Acacías | 3.98495 | -73.69996 | mining | no |
| a186 | mining and energy planning unit 2023 | Colombia | Meta | Cumaral | 4.22164 | -73.35161 | mining | no |
| a187 | mining and energy planning unit 2023 | Colombia | Meta | El dorado | 3.70058 | -73.84518 | mining | no |
| a188 | mining and energy planning unit 2023 | Colombia | Meta | El dorado | 3.70058 | -73.84518 | mining | no |
| a189 | mining and energy planning unit 2023 | Colombia | Meta | Villavicencio | 4.15394 | -73.4968 | mining | no |
| a190 | mining and energy planning unit 2023 | Colombia | Norte santander | Arboledas | 7.61636 | -72.84384 | mining | no |
| a191 | mining and energy planning unit 2023 | Colombia | Norte santander | Bochalema | 7.6217 | -72.66684 | mining | no |
| a192 | mining and energy planning unit 2023 | Colombia | Norte santander | Bochalema | 7.6217 | -72.66684 | mining | no |
| a193 | mining and energy planning unit 2023 | Colombia | Norte santander | Chitagá | 7.03948 | -72.55482 | mining | no |
| a194 | mining and energy planning unit 2023 | Colombia | Norte santander | Cúcuta | 8.09737 | -72.4884 | mining | no |
| a195 | mining and energy planning unit 2023 | Colombia | Norte santander | Cúcuta | 8.09737 | -72.4884 | mining | no |
| a196 | mining and energy planning unit 2023 | Colombia | Norte santander | Cúcuta | 8.09737 | -72.4884 | mining | no |
| a197 | mining and energy planning unit 2023 | Colombia | Norte santander | Cúcuta | 8.09737 | -72.4884 | mining | no |
| a198 | mining and energy planning unit 2023 | Colombia | Norte santander | El zulia | 8.12404 | -72.613 | mining | no |
| a199 | mining and energy planning unit 2023 | Colombia | Norte santander | El zulia | 8.12404 | -72.613 | mining | no |
| a200 | mining and energy planning unit 2023 | Colombia | Norte santander | El zulia | 8.12404 | -72.613 | mining | no |
| a201 | mining and energy planning unit 2023 | Colombia | Norte santander | El zulia | 8.12404 | -72.613 | mining | no |
| a202 | mining and energy planning unit 2023 | Colombia | Norte santander | Herrán | 7.48618 | -72.4698 | mining | no |
| a203 | mining and energy planning unit 2023 | Colombia | Norte santander | Labateca | 7.25968 | -72.52278 | mining | no |
| a204 | mining and energy planning unit 2023 | Colombia | Norte santander | Los patios | 7.76417 | -72.51386 | mining | yes |
| a205 | mining and energy planning unit 2023 | Colombia | Norte santander | Los patios | 7.76417 | -72.51386 | mining | yes |
| a206 | mining and energy planning unit 2023 | Colombia | Norte santander | Los patios | 7.76417 | -72.51386 | mining | yes |
| a207 | mining and energy planning unit 2023 | Colombia | Norte santander | Pamplona | 7.37473 | -72.68252 | mining | no |
| a208 | mining and energy planning unit 2023 | Colombia | Norte santander | Salazar | 7.80405 | -72.85062 | mining | no |
| a209 | mining and energy planning unit 2023 | Colombia | Norte santander | San cayetano | 7.85591 | -72.59253 | mining | no |
| a210 | mining and energy planning unit 2023 | Colombia | Norte santander | San cayetano | 7.85591 | -72.59253 | mining | no |
| a211 | mining and energy planning unit 2023 | Colombia | Norte santander | Santiago | 7.8817 | -72.72107 | mining | no |
| a212 | mining and energy planning unit 2023 | Colombia | Norte santander | Sardinata | 8.27343 | -72.79495 | mining | no |
| a213 | mining and energy planning unit 2023 | Colombia | Norte santander | Sardinata | 8.27343 | -72.79495 | mining | no |
| a214 | mining and energy planning unit 2023 | Colombia | Norte santander | Tibú | 8.61589 | -72.80607 | mining | no |
| a215 | mining and energy planning unit 2023 | Colombia | Norte santander | Toledo | 7.27509 | -72.37832 | mining | no |
| a216 | mining and energy planning unit 2023 | Colombia | Norte santander | Villa del rosario | 7.76961 | -72.48382 | mining | yes |
| a217 | mining and energy planning unit 2023 | Colombia | Putumayo | San francisco | 1.28369 | -76.86763 | mining | no |
| a218 | mining and energy planning unit 2023 | Colombia | Santander | Barichara | 6.65038 | -73.21201 | mining | yes |
| a219 | mining and energy planning unit 2023 | Colombia | Santander | Bolívar | 6.11783 | -74.17194 | mining | no |
| a220 | mining and energy planning unit 2023 | Colombia | Santander | Capitanejo | 6.5203 | -72.6772 | mining | yes |
| a221 | mining and energy planning unit 2023 | Colombia | Santander | Curití | 6.61336 | -73.02526 | mining | no |
| a222 | mining and energy planning unit 2023 | Colombia | Santander | El peñón | 6.10098 | -73.95202 | mining | no |
| a223 | mining and energy planning unit 2023 | Colombia | Santander | Enciso | 6.64952 | -72.6883 | mining | yes |
| a224 | mining and energy planning unit 2023 | Colombia | Santander | Girón | 7.0724 | -73.23222 | mining | yes |
| a225 | mining and energy planning unit 2023 | Colombia | Santander | Girón | 7.0724 | -73.23222 | mining | yes |
| a226 | mining and energy planning unit 2023 | Colombia | Santander | La belleza | 5.89043 | -74.01317 | mining | no |
| a227 | mining and energy planning unit 2023 | Colombia | Santander | La paz | 6.235 | -73.62 | mining | no |
| a228 | mining and energy planning unit 2023 | Colombia | Santander | Landázuri | 6.29271 | -73.86243 | mining | no |
| a229 | mining and energy planning unit 2023 | Colombia | Santander | Los santos | 6.8520 | -73.0985 | mining | yes |
| a230 | mining and energy planning unit 2023 | Colombia | Santander | Los santos | 6.85198 | -73.09845 | mining | yes |
| a231 | mining and energy planning unit 2023 | Colombia | Santander | Málaga | 6.70381 | -72.74253 | mining | no |
| a232 | mining and energy planning unit 2023 | Colombia | Santander | Mogotes | 6.48134 | -72.93397 | mining | no |
| a233 | mining and energy planning unit 2023 | Colombia | Santander | Oiba | 6.21913 | -73.29618 | mining | no |
| a234 | mining and energy planning unit 2023 | Colombia | Santander | Pinchote | 6.52346 | -73.16669 | mining | yes |
| a235 | mining and energy planning unit 2023 | Colombia | Santander | Rionegro | 7.5821 | -73.44483 | mining | no |
| a236 | mining and energy planning unit 2023 | Colombia | Santander | Sabana de torres | 7.43751 | -73.59602 | mining | no |
| a237 | mining and energy planning unit 2023 | Colombia | Santander | San gil | 6.56253 | -73.10768 | mining | no |
| a238 | mining and energy planning unit 2023 | Colombia | Santander | Sucre | 6.02101 | -73.97837 | mining | no |
| a239 | mining and energy planning unit 2023 | Colombia | Santander | Vélez | 6.2118 | -73.68686 | mining | no |
| a240 | mining and energy planning unit 2023 | Colombia | Santander | Villanueva | 9.8222 | -73.0371 | mining | no |
| a241 | mining and energy planning unit 2023 | Colombia | Santander | Villanueva | 6.68216 | -73.164 | mining | yes |
| a242 | mining and energy planning unit 2023 | Colombia | Santander | Zapatoca | 6.8888 | -73.3217 | mining | yes |
| a243 | mining and energy planning unit 2023 | Colombia | Sucre | Sincelejo | 9.32533 | -75.4418 | mining | no |
| a244 | mining and energy planning unit 2023 | Colombia | Sucre | Tolú viejo | 9.48209 | -75.41694 | mining | no |
| a245 | mining and energy planning unit 2023 | Colombia | Sucre | Tolú viejo | 9.48209 | -75.41694 | mining | no |
| a246 | mining and energy planning unit 2023 | Colombia | Tolima | Ambalema | 4.84937 | -74.82111 | mining | no |
| a247 | mining and energy planning unit 2023 | Colombia | Tolima | San luis | 4.12346 | -75.10594 | mining | no |
| a248 | mining and energy planning unit 2023 | Colombia | Tolima | San luis | 4.12346 | -75.10594 | mining | no |
| a249 | mining and energy planning unit 2023 | Colombia | Tolima | San luis | 4.12346 | -75.10594 | mining | no |
| a250 | mining and energy planning unit 2023 | Colombia | Tolima | Valle de san juan | 4.18748 | -75.18228 | mining | no |
| a251 | mining and energy planning unit 2023 | Colombia | Tolima | Valle de san juan | 4.18748 | -75.18228 | mining | no |
| a252 | mining and energy planning unit 2023 | Colombia | Tolima | Valle de san juan | 4.18748 | -75.18228 | mining | no |
| a253 | mining and energy planning unit 2023 | Colombia | Tolima | Villarrica | 3.88248 | -74.65898 | mining | no |
| a254 | mining and energy planning unit 2023 | Colombia | Valle cauca | Ansermanuevo | 4.80671 | -76.06566 | mining | no |
| a255 | mining and energy planning unit 2023 | Colombia | Valle cauca | Caicedonia | 4.3027 | -75.836 | mining | no |
| a256 | mining and energy planning unit 2023 | Colombia | Valle cauca | Riofrío | 4.11807 | -76.39095 | mining | no |
| a257 | mining and energy planning unit 2023 | Colombia | Valle cauca | Roldanillo | 4.45432 | -76.1776 | mining | no |
| a258 | mining and energy planning unit 2023 | Colombia | Valle cauca | Tuluá | 4.01416 | -76.02836 | mining | no |
| a259 | mining and energy planning unit 2023 | Colombia | Valle cauca | Vijes | 3.74709 | -76.50511 | mining | no |
| a260 | mining and energy planning unit 2023 | Colombia | Valle cauca | Yumbo | 3.58801 | -76.50022 | mining | no |
| a261 | mining and energy planning unit 2023 | Colombia | Valle cauca | Yumbo | 3.58801 | -76.50022 | mining | no |
| a262 | mining and energy planning unit 2023 | Colombia | Valle cauca | Yumbo | 3.58801 | -76.50022 | mining | no |
| a263 | ministry of commerce, industry, and tourism | Colombia | Amazonas | Leticia | -4.2129211 | -69.9425963 | tourism | no |
| a264 | ministry of commerce, industry, and tourism | Colombia | Antioquia | Caucasia | 7.98721408 | -75.19473379 | tourism | no |
| a265 | ministry of commerce, industry, and tourism | Colombia | Antioquia | Chigorodo | 7.6645 | -76.6775 | tourism | no |
| a266 | ministry of commerce, industry, and tourism | Colombia | Antioquia | El bagre | 7.598372002 | -74.80504248 | tourism | no |
| a267 | ministry of commerce, industry, and tourism | Colombia | Antioquia | Medellin | 5.422039 | -71.7314386 | tourism | no |
| a268 | ministry of commerce, industry, and tourism | Colombia | Antioquia | Necocli | 8.4242821 | -76.784019 | tourism | no |
| a269 | ministry of commerce, industry, and tourism | Colombia | Antioquia | Rionegro | 6.1536166 | -75.3741691 | tourism | no |
| a270 | ministry of commerce, industry, and tourism | Colombia | Arauca | Arauca | 6.7801 | -70.7168 | tourism | no |
| a271 | ministry of commerce, industry, and tourism | Colombia | Arauca | Saravena | 6.955034496 | -71.87341595 | tourism | no |
| a272 | ministry of commerce, industry, and tourism | Colombia | Arauca | Tame | 6.4615077 | -71.7245069 | tourism | no |
| a273 | ministry of commerce, industry, and tourism | Colombia | Atlantico | Barranquilla | 10.98 | -74.79 | tourism | yes |
| a274 | ministry of commerce, industry, and tourism | Colombia | Bolivar | Cartagena | 10.42 | -75.53 | tourism | yes |
| a275 | ministry of commerce, industry, and tourism | Colombia | Caldas | Manizales | 5.0668907 | -75.5066661 | tourism | no |
| a276 | ministry of commerce, industry, and tourism | Colombia | Caqueta | Florencia | 1.7554212 | -75.6081198 | tourism | no |
| a277 | ministry of commerce, industry, and tourism | Colombia | Casanare | San luis de palenque | 5.422039 | -71.7314386 | tourism | no |
| a278 | ministry of commerce, industry, and tourism | Colombia | Casanare | Yopal | 5.3356662 | -72.3936931 | tourism | no |
| a279 | ministry of commerce, industry, and tourism | Colombia | Cauca | Popayan | 2.4422295 | -76.6072368 | tourism | no |
| a280 | ministry of commerce, industry, and tourism | Colombia | Cesar | Aguachica | 8.309416 | -73.603699 | tourism | no |
| a281 | ministry of commerce, industry, and tourism | Colombia | Cesar | Chiriguana | 9.3636401 | -73.6016974 | tourism | no |
| a282 | ministry of commerce, industry, and tourism | Colombia | Cesar | San martin | 10.40252 | -72.9456789 | tourism | no |
| a283 | ministry of commerce, industry, and tourism | Colombia | Cesar | Valledupar | 10.43 | -73.25 | tourism | no |
| a284 | ministry of commerce, industry, and tourism | Colombia | Choco | Acandi | 8.5115155 | -77.2790562 | tourism | no |
| a285 | ministry of commerce, industry, and tourism | Colombia | Choco | Bahia solano | 6.2245644 | -77.4034389 | tourism | no |
| a286 | ministry of commerce, industry, and tourism | Colombia | Choco | Quibdo | 5.6923407 | -76.6583801 | tourism | no |
| a287 | ministry of commerce, industry, and tourism | Colombia | Cordoba | Lorica | 9.238928688 | -75.81430295 | tourism | no |
| a288 | ministry of commerce, industry, and tourism | Colombia | Cordoba | Monteria | 8.7509361 | -75.8786806 | tourism | no |
| a289 | ministry of commerce, industry, and tourism | Colombia | Cundinamarca | Bogota | 4.6529539 | -74.0835643 | tourism | no |
| a290 | ministry of commerce, industry, and tourism | Colombia | Cundinamarca | Chia | 4.8660334 | -74.030628 | tourism | no |
| a291 | ministry of commerce, industry, and tourism | Colombia | Guania | Puerto inirida | 3.2557 | -68.4293 | tourism | no |
| a292 | ministry of commerce, industry, and tourism | Colombia | Guaviare | San jose del guaviare | 2.4875 | -71.7622 | tourism | no |
| a293 | ministry of commerce, industry, and tourism | Colombia | Huila | Neiva | 2.9257038 | -75.289393 | tourism | no |
| a294 | ministry of commerce, industry, and tourism | Colombia | La guajira | Distraccion | 10.897 | -72.8865 | tourism | yes |
| a295 | ministry of commerce, industry, and tourism | Colombia | La guajira | Riohacha | 11.53 | -72.93 | tourism | yes |
| a296 | ministry of commerce, industry, and tourism | Colombia | Magdalena | Plato | 9.7904163 | -74.7820016 | tourism | no |
| a297 | ministry of commerce, industry, and tourism | Colombia | Magdalena | Santa marta | 11.25 | -74.21 | tourism | yes |
| a298 | ministry of commerce, industry, and tourism | Colombia | Meta | Puerto gaitan | 4.3120724 | -72.0829509 | tourism | no |
| a299 | ministry of commerce, industry, and tourism | Colombia | Meta | Puerto lopez | 4.0891674 | -72.9605902 | tourism | no |
| a300 | ministry of commerce, industry, and tourism | Colombia | Meta | Villavicencio | 4.1347644 | -73.6201517 | tourism | no |
| a301 | ministry of commerce, industry, and tourism | Colombia | Nariño | Pasto | 1.2140275 | -77.2785096 | tourism | no |
| a302 | ministry of commerce, industry, and tourism | Colombia | Nariño | Tumaco | 1.8061434 | -78.7635572 | tourism | no |
| a303 | ministry of commerce, industry, and tourism | Colombia | Norte santander | Cucuta | 7.8971458 | -72.5080387 | tourism | yes |
| a304 | ministry of commerce, industry, and tourism | Colombia | Quindio | Armenia | 4.536307 | -75.672375 | tourism | no |
| a305 | ministry of commerce, industry, and tourism | Colombia | Risaralda | Pereira | 4.8143159 | -75.694677 | tourism | no |
| a306 | ministry of commerce, industry, and tourism | Colombia | Santander | Barrancabermeja | 7.0673313 | -73.8525627 | tourism | no |
| a307 | ministry of commerce, industry, and tourism | Colombia | Santander | Bucaramanga | 7.1255169 | -73.1182624 | tourism | yes |
| a308 | ministry of commerce, industry, and tourism | Colombia | Santander | San gil | 6.5552856 | -73.1312353 | tourism | yes |
| a309 | ministry of commerce, industry, and tourism | Colombia | Sucre | Corozal | 9.3234 | -75.2949 | tourism | no |
| a310 | ministry of commerce, industry, and tourism | Colombia | Tolima | Flandes | 4.2864999 | -74.813697 | tourism | no |
| a311 | ministry of commerce, industry, and tourism | Colombia | Tolima | Ibague | 4.43917 | -75.2113267 | tourism | no |
| a312 | ministry of commerce, industry, and tourism | Colombia | Tolima | Melgar | 4.2039758 | -74.6429479 | tourism | no |
| a313 | ministry of commerce, industry, and tourism | Colombia | Tolima | Natagaima | 3.6241727 | -75.0930613 | tourism | no |
| a314 | ministry of commerce, industry, and tourism | Colombia | Tolima | Piedras | 4.5429776 | -74.8788788 | tourism | no |
| a315 | ministry of commerce, industry, and tourism | Colombia | Valle cauca | Buenaventura | 3.8881929 | -77.0738324 | tourism | no |
| a316 | ministry of commerce, industry, and tourism | Colombia | Valle cauca | Cartago | 4.7465494 | -75.9121234 | tourism | no |
| a317 | ministry of commerce, industry, and tourism | Colombia | Vaupes | Mitu | 1.2523268 | -70.2308883 | tourism | no |
| a318 | ministry of commerce, industry, and tourism | Colombia | Vichada | La primavera | 5.4904575 | -70.4097672 | tourism | no |
| a319 | ministry of commerce, industry, and tourism | Colombia | Vichada | Puerto carreño | 6.1909225 | -67.4841891 | tourism | no |
| a320 | our field data | Colombia | Atlántico | Tubará, el tigre cave | 10.939778 | -75.002722 | tourism | yes |
| a321 | our field data | Colombia | Bolivar | Cartagena, bateria angel san rafael fort | 10.329 | -75.58024 | tourism | yes |
| a322 | our field data | Colombia | Bolivar | Cartagena, san fernando fort | 10.31925 | -75.581499 | tourism | yes |
| a323 | our field data | Colombia | La guajira | Barrancas, los santos cave | 10.8752 | -72.757 | tourism | yes |
| a324 | our field data | Colombia | Magdalena | Santa marta, el murciélago cave | 11.263594 | -74.193364 | tourism | yes |
| a325 | our field data | Colombia | Santander | San gil, antigua cave | 6.5769444 | -73.155 | tourism | yes |
| a326 | our field data | Colombia | Santander | Curiti, la vaca cave | 6.6038889 | -73.068 | tourism | no |
| a327 | our field data | Colombia | Santander | Paramo, el indio cave | 6.4175 | -73.1675 | tourism | no |
| a328 | our field data | Colombia | Santander | Ocamonte, la virgen cave | 6.3519444 | -73.13694444 | tourism | no |
| a329 | our field data | Colombia | Santander | Zapatoca, la alsacia cave | 6.7980556 | -73.257222 | tourism | yes |
| a330 | our field data | Colombia | Santander | Zapatoca, el nitro cave | 6.8030556 | -73.27277777 | tourism | yes |
| a331 | our field data | Colombia | Santander | Villanueva, el nitro cave | 6.7144444 | -73.19722222 | tourism | yes |
| a332 | our field data | Colombia | Bolivar | Cartagena, bateria angel san rafael fort | 10.329 | -75.58024 | vandalism | yes |
| a333 | our field data | Aruba | Aruba | San nicolás norte, vader piet | 12.480350 | -69.89129167 | windfarm | yes |
| a334 | our field data | Curacao | Curacao | Tera kora | 12.256014 | -69.04354722 | windfarm | yes |
| a335 | our field data | Bonaire | Bonaire | Rincon | 12.25532222 | -68.31883889 | windfarm | yes |
| a336 | our field data | Venezuela | Nueva esparta | Península de macanao, los murciélagos cave | 11.03638889 | -64.29333333 | vandalism | yes |
| a337 | our field data | Venezuela | Falcon | Península de paraguaná, el guano cave | 11.899755412 | -69.94790032 | vandalism | yes |
| a338 | our field data | Curacao | Curacao | Bosa iii | 12.35527778 | -69.09472222 | vandalism | yes |
| a339 | our field data | Curacao | Curacao | Yechi | 12.20027778 | -68.98833333 | vandalism | yes |
| a340 | our field data | Curacao | Curacao | Noordkant | 12.17138889 | -68.90666667 | vandalism | yes |
| a341 | our field data | Venezuela | Falcon | Tunel de butare | 11.380555555 | -69.573611111 | vandalism | yes |