

C:\Python310\python.exe D:/R.GISPython/CNEIDEAMStat/CNEIDEAMStat.py

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Catálogo nacional de estaciones hidroclimatológicas del IDEAM - Colombia  
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Ejecutado en: 2021-12-13 12:04:49.501516

Data summary for ./Data/CNE\_IDEAM\_20211213.xls

Url: [http://bart.ideam.gov.co/cneideam/CNE\\_IDEAM.xls](http://bart.ideam.gov.co/cneideam/CNE_IDEAM.xls)

Dataframe type: &lt;class 'pandas.core.frame.DataFrame'&gt;

File was download = No

Stations: 4492

Attributes: 20

Encuentra este script en <https://github.com/rcfdtools/R.GISPython/tree/main/CNEIDEAMStat>Cláusulas y condiciones de uso en <https://github.com/rcfdtools/R.GISPython/wiki/License>

Créditos: r.cfdtools@gmail.com

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Attributes an types founded  
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```
Index(['OBJECTID', 'CODIGO', 'nombre', 'CATEGORIA', 'TECNOLOGIA', 'ESTADO',
      'FECHA_INSTALACION', 'altitud', 'latitud', 'longitud', 'DEPARTAMENTO',
      'MUNICIPIO', 'AREA_OPERATIVA', 'AREA_HIDROGRAFICA', 'ZONA_HIDROGRAFICA',
      'observacion', 'CORRIENTE', 'FECHA_SUSPENSION', 'SUBZONA_HIDROGRAFICA',
      'ENTIDAD'],
      dtype='object')
```

## Types:

|                      |                |
|----------------------|----------------|
| OBJECTID             | int64          |
| CODIGO               | int64          |
| nombre               | object         |
| CATEGORIA            | object         |
| TECNOLOGIA           | object         |
| ESTADO               | object         |
| FECHA_INSTALACION    | datetime64[ns] |
| altitud              | int64          |
| latitud              | float64        |
| longitud             | float64        |
| DEPARTAMENTO         | object         |
| MUNICIPIO            | object         |
| AREA_OPERATIVA       | object         |
| AREA_HIDROGRAFICA    | object         |
| ZONA_HIDROGRAFICA    | object         |
| observacion          | object         |
| CORRIENTE            | object         |
| FECHA_SUSPENSION     | datetime64[ns] |
| SUBZONA_HIDROGRAFICA | object         |
| ENTIDAD              | object         |
| dtype:               | object         |

## General dataframe information:

&lt;class 'pandas.core.frame.DataFrame'&gt;

RangeIndex: 4492 entries, 0 to 4491

Data columns (total 20 columns):

| #   | Column | Non-Null Count | Dtype |
|-----|--------|----------------|-------|
| --- | -----  | -----          | ----- |

```

0  OBJECTID          4492 non-null   int64
1  CODIGO            4492 non-null   int64
2  nombre            4492 non-null   object
3  CATEGORIA         4492 non-null   object
4  TECNOLOGIA        4492 non-null   object
5  ESTADO            4492 non-null   object
6  FECHA_INSTALACION 4489 non-null   datetime64[ns]
7  altitud           4492 non-null   int64
8  latitud           4492 non-null   float64
9  longitud          4492 non-null   float64
10 DEPARTAMENTO       4492 non-null   object
11 MUNICIPIO         4492 non-null   object
12 AREA_OPERATIVA    4492 non-null   object
13 AREA_HIDROGRAFICA 4492 non-null   object
14 ZONA_HIDROGRAFICA 4492 non-null   object
15 observacion       1039 non-null   object
16 CORRIENTE         4492 non-null   object
17 FECHA_SUSPENSION  1832 non-null   datetime64[ns]
18 SUBZONA_HIDROGRAFICA 4492 non-null   object
19 ENTIDAD           4492 non-null   object
dtypes: datetime64[ns](2), float64(2), int64(3), object(13)
memory usage: 702.0+ KB
None

```

# General statistics

## Basic dataframe statistics:

|       | OBJECTID    | CODIGO       | altitud     | latitud     | longitud    |
|-------|-------------|--------------|-------------|-------------|-------------|
| count | 4492.000000 | 4.492000e+03 | 4492.000000 | 4492.000000 | 4492.000000 |
| mean  | 2246.500000 | 1.621831e+08 | 890.202805  | 5.989762    | -74.558195  |
| std   | 1296.873034 | 6.253406e+08 | 1004.512120 | 2.954317    | 1.724950    |
| min   | 1.000000    | 1.101001e+07 | 0.000000    | -4.222528   | -81.730969  |
| 25%   | 1123.750000 | 2.120576e+07 | 90.000000   | 4.082903    | -75.686951  |
| 50%   | 2246.500000 | 2.502716e+07 | 400.000000  | 5.690556    | -74.731100  |
| 75%   | 3369.250000 | 3.501501e+07 | 1560.250000 | 8.137500    | -73.360124  |
| max   | 4492.000000 | 5.601500e+09 | 5027.000000 | 15.797500   | -67.466667  |

## Category - Count:

|                        |      |
|------------------------|------|
| Pluviométrica          | 1702 |
| Limnimétrica           | 873  |
| Limnigráfica           | 573  |
| Climática Ordinaria    | 506  |
| Climática Principal    | 355  |
| Pluviográfica          | 192  |
| Meteorológica Especial | 148  |
| Agrometeorológica      | 74   |
| Sinóptica Principal    | 33   |
| Radio Sonda            | 14   |
| Mareográfica           | 11   |
| Sinóptica Secundaria   | 11   |

Name: CATEGORIA, dtype: int64

## Category - Normalize percentage rate:

|                        |        |
|------------------------|--------|
| Pluviométrica          | 0.3789 |
| Limnimétrica           | 0.1943 |
| Limnigráfica           | 0.1276 |
| Climática Ordinaria    | 0.1126 |
| Climática Principal    | 0.0790 |
| Pluviográfica          | 0.0427 |
| Meteorológica Especial | 0.0329 |
| Agrometeorológica      | 0.0165 |
| Sinóptica Principal    | 0.0073 |
| Radio Sonda            | 0.0031 |
| Mareográfica           | 0.0024 |
| Sinóptica Secundaria   | 0.0024 |

Name: CATEGORIA, dtype: float64

## Technology - Count:

|                           |      |
|---------------------------|------|
| Convencional              | 3757 |
| Automática con Telemetría | 692  |
| Automática sin Telemetría | 43   |

Name: TECNOLOGIA, dtype: int64

## Technology - Normalize percentage rate:

|                           |        |
|---------------------------|--------|
| Convencional              | 0.8364 |
| Automática con Telemetría | 0.1541 |
| Automática sin Telemetría | 0.0096 |

Name: TECNOLOGIA, dtype: float64

## State active - Count:

|                  |      |
|------------------|------|
| Activa           | 2643 |
| Suspendida       | 1832 |
| En Mantenimiento | 17   |

Name: ESTADO, dtype: int64

## State active - Normalize percentage rate:

|                  |        |
|------------------|--------|
| Activa           | 0.5884 |
| Suspendida       | 0.4078 |
| En Mantenimiento | 0.0038 |

Name: ESTADO, dtype: float64

## Geographical state location- Count:

|                    |     |
|--------------------|-----|
| Antioquia          | 394 |
| Boyacá             | 318 |
| Santander          | 293 |
| Tolima             | 289 |
| Bolívar            | 254 |
| Cundinamarca       | 247 |
| Huila              | 241 |
| Norte de Santander | 224 |
| Cauca              | 221 |
| Córdoba            | 182 |
| Cesar              | 173 |
| La Guajira         | 171 |
| Meta               | 154 |
| Magdalena          | 150 |
| Valle del Cauca    | 148 |

|  |     |
|--|-----|
| Nariño   | 129 |
| Chocó  | 108 |
| Caldas   | 91  |
| Risaralda  | 80  |
| Putumayo   | 75  |
| Sucre  | 74  |
| Casanare   | 71  |
| Atlántico  | 69  |
| Bogotá   | 67  |
| Caquetá  | 53  |
| Amazonas   | 52  |
| Vichada  | 49  |
| Arauca   | 35  |
| Archipiélago de San Andres, Providencia y Santa Catalina | 21  |
| Vaupés   | 18  |
| Guaviare   | 17  |
| Quindío  | 12  |
| Guainía  | 12  |

Name: DEPARTAMENTO, dtype: int64

Geographical state location - Normalize percentage rate:

|  |        |
|--|--------|
| Antioquia  | 0.0877 |
| Boyacá   | 0.0708 |
| Santander  | 0.0652 |
| Tolima   | 0.0643 |
| Bolívar  | 0.0565 |
| Cundinamarca   | 0.0550 |
| Huila  | 0.0537 |
| Norte de Santander                                       | 0.0499 |
| Cauca  | 0.0492 |
| Córdoba  | 0.0405 |
| Cesar  | 0.0385 |
| La Guajira   | 0.0381 |
| Meta   | 0.0343 |
| Magdalena  | 0.0334 |
| Valle del Cauca  | 0.0329 |
| Nariño   | 0.0287 |
| Chocó  | 0.0240 |
| Caldas   | 0.0203 |
| Risaralda  | 0.0178 |
| Putumayo   | 0.0167 |
| Sucre  | 0.0165 |
| Casanare   | 0.0158 |
| Atlántico  | 0.0154 |
| Bogotá   | 0.0149 |
| Caquetá  | 0.0118 |
| Amazonas   | 0.0116 |
| Vichada  | 0.0109 |
| Arauca   | 0.0078 |
| Archipiélago de San Andres, Providencia y Santa Catalina | 0.0047 |
| Vaupés   | 0.0040 |
| Guaviare   | 0.0038 |
| Quindío  | 0.0027 |
| Guainía  | 0.0027 |

Name: DEPARTAMENTO, dtype: float64

## Geographical operative area - Count:

|  |     |
|--|-----|
| Area Operativa 08 - Santanderes-Arauca               | 605 |
| Area Operativa 02 - Atlántico-Bolivar-Sucre          | 550 |
| Area Operativa 01 - Antioquia-Chocó                  | 474 |
| Area Operativa 09 - Cauca-Valle-Caldas               | 449 |
| Area Operativa 05 - Magdalena-Cesar-Guajira          | 448 |
| Area Operativa 06 - Boyacá-Casanare-Vichada          | 381 |
| Area Operativa 04 - Huila-Caquetá                    | 347 |
| Area Operativa 10 - Tolima                           | 332 |
| Area Operativa 11 - Cundinamarca-Amazonas-San Andrés | 325 |
| Area Operativa 07 - Nariño-Putumayo                  | 295 |
| Area Operativa 03 - Meta-Guaviare-Guainía            | 286 |

Name: AREA\_OPERATIVA, dtype: int64

## Geographical operative area - Normalize percentage rate:

|  |        |
|--|--------|
| Area Operativa 08 - Santanderes-Arauca               | 0.1347 |
| Area Operativa 02 - Atlántico-Bolivar-Sucre          | 0.1224 |
| Area Operativa 01 - Antioquia-Chocó                  | 0.1055 |
| Area Operativa 09 - Cauca-Valle-Caldas               | 0.1000 |
| Area Operativa 05 - Magdalena-Cesar-Guajira          | 0.0997 |
| Area Operativa 06 - Boyacá-Casanare-Vichada          | 0.0848 |
| Area Operativa 04 - Huila-Caquetá                    | 0.0772 |
| Area Operativa 10 - Tolima                           | 0.0739 |
| Area Operativa 11 - Cundinamarca-Amazonas-San Andrés | 0.0724 |
| Area Operativa 07 - Nariño-Putumayo                  | 0.0657 |
| Area Operativa 03 - Meta-Guaviare-Guainía            | 0.0637 |

Name: AREA\_OPERATIVA, dtype: float64

## Hydrographic area - Count:

|                 |      |
|-----------------|------|
| Magdalena Cauca | 2672 |
| Caribe          | 756  |
| Orinoco         | 567  |
| Pacifico        | 274  |
| Amazonas        | 223  |

Name: AREA\_HIDROGRAFICA, dtype: int64

## Hydrographic area - Normalize percentage rate:

|                 |        |
|-----------------|--------|
| Magdalena Cauca | 0.5948 |
| Caribe          | 0.1683 |
| Orinoco         | 0.1262 |
| Pacifico        | 0.0610 |
| Amazonas        | 0.0496 |

Name: AREA\_HIDROGRAFICA, dtype: float64

## Hydrographic zone - Count:

|                  |     |
|------------------|-----|
| Alto Magdalena   | 639 |
| Cauca            | 502 |
| Medio Magdalena  | 421 |
| Meta             | 383 |
| Sogamoso         | 315 |
| Bajo Magdalena   | 313 |
| Caribe - Guajira | 198 |
| Catatumbo        | 197 |
| Cesar            | 167 |

|                                  |     |
|----------------------------------|-----|
| Bajo Magdalena- Cauca -San Jorge | 152 |
| Sinú                             | 146 |
| Patía                            | 142 |
| Atrato - Darién                  | 98  |
| Caribe - Litoral                 | 96  |
| Caquetá                          | 94  |
| Nechí                            | 90  |
| Guaviare                         | 87  |
| Putumayo                         | 80  |
| Saldaña                          | 73  |
| Arauca                           | 49  |
| Tapaje - Dagua - Directos        | 47  |
| San Juan                         | 43  |
| Mira                             | 23  |
| Casanare                         | 21  |
| Islas Caribe                     | 21  |
| Vaupes                           | 17  |
| Caguán                           | 15  |
| Orinoco Directos                 | 14  |
| Amazonas - Directos              | 14  |
| Pacífico - Directos              | 11  |
| Baudó - Directos Pacifico        | 8   |
| Tomo                             | 6   |
| Vichada                          | 4   |
| Inírida                          | 3   |
| Yarí                             | 2   |
| Apaporis                         | 1   |

Name: ZONA\_HIDROGRAFICA, dtype: int64

Hydrographic zone - Normalize percentage rate:

|                                  |        |
|----------------------------------|--------|
| Alto Magdalena                   | 0.1423 |
| Cauca                            | 0.1118 |
| Medio Magdalena                  | 0.0937 |
| Meta                             | 0.0853 |
| Sogamoso                         | 0.0701 |
| Bajo Magdalena                   | 0.0697 |
| Caribe - Guajira                 | 0.0441 |
| Catatumbo                        | 0.0439 |
| Cesar                            | 0.0372 |
| Bajo Magdalena- Cauca -San Jorge | 0.0338 |
| Sinú                             | 0.0325 |
| Patía                            | 0.0316 |
| Atrato - Darién                  | 0.0218 |
| Caribe - Litoral                 | 0.0214 |
| Caquetá                          | 0.0209 |
| Nechí                            | 0.0200 |
| Guaviare                         | 0.0194 |
| Putumayo                         | 0.0178 |
| Saldaña                          | 0.0163 |
| Arauca                           | 0.0109 |
| Tapaje - Dagua - Directos        | 0.0105 |
| San Juan                         | 0.0096 |
| Mira                             | 0.0051 |
| Casanare                         | 0.0047 |
| Islas Caribe                     | 0.0047 |

|                           |        |
|---------------------------|--------|
| Vaupes                    | 0.0038 |
| Caguán                    | 0.0033 |
| Orinoco Directos          | 0.0031 |
| Amazonas - Directos       | 0.0031 |
| Pacífico - Directos       | 0.0024 |
| Baudó - Directos Pacifico | 0.0018 |
| Tomo                      | 0.0013 |
| Vichada                   | 0.0009 |
| Inírida                   | 0.0007 |
| Yarí                      | 0.0004 |
| Apaporis                  | 0.0002 |

Name: ZONA\_HIDROGRAFICA, dtype: float64

## Hydrographic subzone - Count:

|  |     |
|--|-----|
| Río Chicamocha   | 159 |
| Río Lebrija y otros directos al Magdalena                | 148 |
| Bajo San Jorge - La Mojana                               | 139 |
| Río Bogotá   | 137 |
| Río Suárez   | 105 |
| Bajo Sinú  | 95  |
| Río Ranchería  | 88  |
| Canal del Dique margen izquierda                         | 87  |
| Río Zulia  | 78  |
| Cga Grande de Santa Marta                                | 71  |
| Directos Bajo Magdalena entre El Banco y El Plato        | 68  |
| Medio Cesar  | 67  |
| Río Garagoa  | 61  |
| Río Lagunilla y Otros Directos al Magdalena              | 55  |
| Río Coello   | 53  |
| Río Otún y otros directos al Cauca                       | 52  |
| Río Nare   | 51  |
| Río Algodonal (Alto Catatumbo)                           | 51  |
| Alto Río Putumayo  | 47  |
| Río Fortalecillas y otros                                | 47  |
| Canal del Dique margen derecho                           | 46  |
| Río Páez   | 43  |
| Río Guayuriba  | 41  |
| Río Porce  | 41  |
| Río Negro  | 40  |
| Río Ariguaní   | 39  |
| Río Guavio   | 37  |
| Directos Río Cauca entre Río San Juan y Pto Valdivia     | 36  |
| Río Carare (Minero)                                      | 36  |
| Río León   | 35  |
| Río Sumapaz  | 35  |
| Río Guáitara   | 34  |
| Río Ariari   | 34  |
| Río Patia Alto   | 33  |
| Río Pamplonita   | 32  |
| Río Juananbú   | 32  |
| Alto Caqueta   | 32  |
| Río Carraipia - Paraguachon, Directos al Golfo Maracaibo | 31  |
| Río La Vieja   | 31  |
| Bajo Cesar   | 31  |
| Alto Cesar   | 30  |

|  |    |
|--|----|
| Alto Río Cauca   | 30 |
| Ríos Pescador - RUT - Chanco - Catarina y Cañaveral      | 29 |
| Medio Sinú   | 29 |
| Río Chinchiná  | 29 |
| Directos Río Cauca entre Río San Juan y Pto Valdia       | 27 |
| Alto Magdalena   | 27 |
| Río Guatiquía  | 26 |
| Río Ortegúaza  | 26 |
| Río Fonce  | 26 |
| Río Sogamoso   | 25 |
| Río Yaguará y Río Iquira                                 | 25 |
| Río Lengupá  | 25 |
| Río Piedras - Río Manzanares                             | 24 |
| Bajo Nechí (md)  | 23 |
| Río Cusiana  | 23 |
| Río Prado  | 23 |
| Directos Caribe - Ay.Sharimahana Alta Guajira            | 23 |
| Río Nuevo Presidente - Tres Bocas (Sardinata, Tibu)      | 22 |
| Río Sucio  | 22 |
| Alto Sinú - Urrá   | 22 |
| Río Frío y Otros Directos al Cauca                       | 22 |
| Río Cabrera  | 22 |
| Río Risaralda  | 21 |
| Río Caqueta Bajo   | 21 |
| Directos al Magdalena (Brazo Morales)                    | 21 |
| Río San Bartolo y otros directos al Magdalena Medio      | 21 |
| Río Totare   | 20 |
| Quebrada El Carmen y Otros Directos al Magdalena         | 20 |
| Río Baché  | 20 |
| Río Metica (Guamal - Humadea)                            | 20 |
| Río Guachicón  | 20 |
| Lago de Tota   | 19 |
| Arroyos Directos al Caribe                               | 19 |
| Alto Nechí   | 19 |
| Directos al Bajo Magdalena entre Calamar y desembocadura | 19 |
| Directos Caribe Golfo de Morrosquillo                    | 18 |
| Río San Juan   | 18 |
| Río Aipe, Río Chenche y otros directos al Magdalena      | 18 |
| Río Opón   | 17 |
| Río Chitaga  | 17 |
| Río Gualí  | 17 |
| Río Palo   | 17 |
| Bajo Vaupés  | 16 |
| Río Neiva  | 16 |
| Río Arma   | 16 |
| Río San Juan del Micay                                   | 16 |
| Río Cimitarra y otros directos al Magdalena              | 16 |
| Río Guachal (Bolo - Fraile y Párraga)                    | 15 |
| Bajo Saldaña   | 15 |
| Ríos Directos al Magdalena (mi)                          | 15 |
| Río Luisa y otros directos al Magdalena                  | 15 |
| Río Mira   | 15 |
| Medio Guaviare   | 15 |
| Río Banadía y otros Directos al Río Arauca               | 15 |
| Dagua - Buenaventura - Bahía Málaga                      | 15 |



|   |    |
|---|----|
| Río Cucuana   | 14 |
| Río Mulatos y otros directos al Caribe              | 14 |
| Río Taraza - Río Man                                | 14 |
| Río Tamaná y otros Directos San Juan                | 14 |
| Río Casanare  | 14 |
| Directos Río Amazonas (mi)                          | 14 |
| Río Tapias y otros directos al Cauca                | 14 |
| Alto Saldaña  | 14 |
| Río Cravo Sur                                       | 13 |
| Juncal y otros Rios directos al Magdalena           | 13 |
| Ríos directos Magdalena (md)                        | 13 |
| Directos al Bajo Magdalena entre El Plato y Calamar | 13 |
| Río Salado y otros directos Cauca                   | 13 |
| Bajo Guaviare                                       | 12 |
| Río La Miel (Samaná)                                | 12 |
| Directos Bajo Meta entre ríos Casanare y Orinoco    | 12 |
| Directos al Cauca entre Pto Valdivia y Río Nechí    | 12 |
| Río Palacé  | 12 |
| Ríos Tulua y Morales                                | 12 |
| San Andres  | 12 |
| Directos al Río Meta entre ríos Cusiana y Carare    | 11 |
| Río Quinamayo y otros directos al Cauca             | 11 |
| Alto Atrato   | 11 |
| Río Suaza   | 11 |
| Río Ancho y Otros Directos al caribe                | 11 |
| Directos Pacifico Frontera Panamá                   | 11 |
| Caño Guanápalo y otros directos al Meta             | 11 |
| Río Túa y otros directos al Meta                    | 11 |
| Río Pauto   | 10 |
| Río Piendamo  | 10 |
| Río Guachaca - Mendiguaca y Buritaca                | 10 |
| Río Seco y otros Directos al Magdalena              | 10 |
| Río Quito   | 10 |
| Ríos Calima y Bajo San Juan                         | 10 |
| Directos al Magdalena Medio entre ríos Negro        | 10 |
| Alto Guaviare                                       | 10 |
| Río Upía  | 10 |
| Alto San Jorge                                      | 10 |
| Río Humea   | 9  |
| Río Atá   | 9  |
| Directos Magdalena entre ríos Cabrera y Sumapaz     | 9  |
| Río Putumayo Bajo                                   | 9  |
| Río Guayas  | 9  |
| Ríos Chemicuica y Corozal                           | 9  |
| Río Guarínó   | 9  |
| Río Guejar  | 9  |
| Río Caqueta Medio                                   | 9  |
| Río Timaná y otros directos al Magdalena            | 9  |
| Río Amoyá   | 8  |
| Ríos Claro y Jamundí                                | 8  |
| Río Patia Medio                                     | 8  |
| Río Murri   | 8  |
| Río Tetuán, Río Ortega                              | 8  |
| Ríos Amaime y Cerrito                               | 8  |
| Río Putumayo Medio                                  | 8  |

|  |   |
|--|---|
| Providencia  | 8 |
| Río Putumayo Directos (mi)                         | 8 |
| Río Cabi y otros Directos Atrato (md)              | 8 |
| Río Manacacias                                     | 8 |
| Río Tarra  | 7 |
| Directos al Bajo Nechí (mi)                        | 7 |
| Río Sipí   | 7 |
| Río Ovejas   | 7 |
| Río Rosario  | 7 |
| Directos Río Arauca (md)                           | 7 |
| Directos al Río Meta entre ríos Humea y Upia (mi)  | 7 |
| Río Telembí  | 6 |
| Río Guayabero                                      | 6 |
| Río Pescado  | 6 |
| Río Mayo   | 6 |
| Río Salaquí y otros directos Bajo Atrato           | 6 |
| Río San Juan Alto                                  | 6 |
| Río Tapias   | 6 |
| Río Ariporo  | 6 |
| Ríos Las Cañas - Los Micos y Obando                | 6 |
| Directos Atrato entre ríos Quito y Bojayá (mi)     | 6 |
| Río Tuparro  | 6 |
| Río Bugalagrande                                   | 5 |
| Río Paila  | 5 |
| Río Cobugón - Río Cobaría                          | 5 |
| Directos Magdalena entre Ríos Guarinó y La Miel    | 5 |
| Río Tolo y otros Directos al Caribe                | 5 |
| Directos Magdalena Medio entre ríos La Miel y Nare | 5 |
| Medio Saldaña                                      | 5 |
| Bajo Catatumbo                                     | 5 |
| Río Tanela y otros Directos al Caribe              | 5 |
| Río Guapi  | 5 |
| Directos Río Metica entre ríos Guayuriba y Yucao   | 5 |
| Directos Bajo Cauca - Cga La Raya entre río Nechí  | 5 |
| Río Canalete y otros Arroyos Directos al Caribe    | 5 |
| Ríos Lili, Melendez y Canaveralajo                 | 4 |
| Directos Atrato entre ríos Bebaramá y Murri (md)   | 4 |
| Río Andágueda                                      | 4 |
| Directos Orinoco entre ríos Tomo y Meta (mi)       | 4 |
| Ríos Cali  | 4 |
| Directos al Magdalena entre Ríos Seco y Negro (md) | 4 |
| Río Baudó  | 4 |
| Río Docampadó y Directos Pacífico                  | 4 |
| Río Margua   | 4 |
| Directos al Río Meta entre ríos Pauto y Carare     | 4 |
| Río Camarones y otros directos Caribe              | 4 |
| Río Caguan Bajo                                    | 3 |
| Río Frío   | 3 |
| Río Patia Bajo                                     | 3 |
| Río Desbaratado                                    | 3 |
| Río Guacavía                                       | 3 |
| Río Timba  | 3 |
| Ríos Guabas, Sabaletas y Sonso                     | 3 |
| Caño Matavén                                       | 3 |
| Río Caguan Alto                                    | 3 |

|   |   |
|---|---|
| Bajo Vichada  | 3 |
| Río Opía  | 3 |
| Río Saija   | 3 |
| Río Yucao   | 3 |
| Ríos Guadalajara y San Pedro                            | 3 |
| Río Murindó - Directos al Atrato                        | 3 |
| Río San Juan Medio                                      | 3 |
| Río Igará-Paraná  | 2 |
| Río Cará-Paraná   | 2 |
| Directos Bajo Atrato entre río Sucio y desembocadura    | 2 |
| R._Inírida_(mi),_hasta_bocas_Caño_Bocón,_y_R._Las Viñas | 2 |
| Río Cotuhe  | 2 |
| Río San_Miguel  | 2 |
| Caño Lioni o Terecay                                    | 2 |
| Alto Río Tomo   | 2 |
| Río Melúa   | 2 |
| Río Tapaje  | 2 |
| Río Bebaramá y otros Directos Atrato (md)               | 2 |
| Ríos Cajambre - Mayorquín - Raposo                      | 2 |
| Río Capoma y otros directos al San Juan                 | 2 |
| Bajo Río Tomo   | 2 |
| Río Naya - Yurumanguí                                   | 2 |
| Ríos Arroyohondo - Yumbo - Mulalo - Vijes - Yotoco      | 2 |
| Río Muco  | 1 |
| Río Bojabá  | 1 |
| Río Socuavo del Norte y Río Socuavo Sur                 | 1 |
| Río Querary   | 1 |
| Río Inírida Alto  | 1 |
| Bajo Río Apaporis                                       | 1 |
| Río Cajón   | 1 |
| Directos al Meta entre ríos Cusiana y Cravo Sur         | 1 |
| Río San Juan (Frontera Ecuador)                         | 1 |
| Río Cravo Norte   | 1 |
| Río Bojayá  | 1 |
| Río Don Diego   | 1 |
| Río Timbiquí  | 1 |
| Roncador y Quitasueño                                   | 1 |
| Río Mesay   | 1 |
| Río Guape   | 1 |
| Río Napipí - Río Opogadó                                | 1 |
| Río Vita  | 1 |
| Río del Suroeste y directos Río de Oro                  | 1 |
| Río Anchicayá   | 1 |
| Río Cuñare  | 1 |
| Name: SUBZONA_HIDROGRAFICA, dtype: int64                |   |

Hydrographic subzone - Normalize percentage rate:

|   |        |
|---|--------|
| Río Chicamocha                            | 0.0354 |
| Río Lebrija y otros directos al Magdalena | 0.0329 |
| Bajo San Jorge - La Mojana                | 0.0309 |
| Río Bogotá                                | 0.0305 |
| Río Suárez                                | 0.0234 |
| Bajo Sinú                                 | 0.0211 |
| Río Ranchería                             | 0.0196 |
| Canal del Dique margen izquierda          | 0.0194 |

|  |        |
|--|--------|
| Río Zulia  | 0.0174 |
| Cga Grande de Santa Marta                                | 0.0158 |
| Directos Bajo Magdalena entre El Banco y El Plato        | 0.0151 |
| Medio Cesar  | 0.0149 |
| Río Garagoa  | 0.0136 |
| Río Lagunilla y Otros Directos al Magdalena              | 0.0122 |
| Río Coello   | 0.0118 |
| Río Otún y otros directos al Cauca                       | 0.0116 |
| Río Nare   | 0.0114 |
| Río Algodonal (Alto Catatumbo)                           | 0.0114 |
| Alto Río Putumayo  | 0.0105 |
| Río Fortalecillas y otros                                | 0.0105 |
| Canal del Dique margen derecho                           | 0.0102 |
| Río Páez   | 0.0096 |
| Río Guayuriba  | 0.0091 |
| Río Porce  | 0.0091 |
| Río Negro  | 0.0089 |
| Río Ariguaní   | 0.0087 |
| Río Guavio   | 0.0082 |
| Directos Río Cauca entre Río San Juan y Pto Valdivia     | 0.0080 |
| Río Carare (Minero)                                      | 0.0080 |
| Río León   | 0.0078 |
| Río Sumapaz  | 0.0078 |
| Río Guáitara   | 0.0076 |
| Río Ariari   | 0.0076 |
| Río Patia Alto   | 0.0073 |
| Río Pamplonita   | 0.0071 |
| Río Juananbú   | 0.0071 |
| Alto Caqueta   | 0.0071 |
| Río Carraipia - Paraguachon, Directos al Golfo Maracaibo | 0.0069 |
| Río La Vieja   | 0.0069 |
| Bajo Cesar   | 0.0069 |
| Alto Cesar   | 0.0067 |
| Alto Río Cauca   | 0.0067 |
| Rios Pescador - RUT - Chanco - Catarina y Cañaveral      | 0.0065 |
| Medio Sinú   | 0.0065 |
| Río Chinchiná  | 0.0065 |
| Directos Río Cauca entre Río San Juan y Pto Valdia       | 0.0060 |
| Alto Magdalena   | 0.0060 |
| Río Guatiquía  | 0.0058 |
| Río Orteguzaza   | 0.0058 |
| Río Fonce  | 0.0058 |
| Río Sogamoso   | 0.0056 |
| Río Yaguará y Río Iquira                                 | 0.0056 |
| Río Lengupá  | 0.0056 |
| Río Piedras - Río Manzanares                             | 0.0053 |
| Bajo Nechí (md)  | 0.0051 |
| Río Cusiana  | 0.0051 |
| Río Prado  | 0.0051 |
| Directos Caribe - Ay.Sharimahana Alta Guajira            | 0.0051 |
| Río Nuevo Presidente - Tres Bocas (Sardinata, Tibu)      | 0.0049 |
| Río Sucio  | 0.0049 |
| Alto Sinú - Urrá   | 0.0049 |
| Río Frío y Otros Directos al Cauca                       | 0.0049 |
| Río Cabrera  | 0.0049 |

|  |        |
|--|--------|
| Río Risaralda  | 0.0047 |
| Río Caqueta Bajo   | 0.0047 |
| Directos al Magdalena (Brazo Morales)                    | 0.0047 |
| Río San Bartolo y otros directos al Magdalena Medio      | 0.0047 |
| Río Totare   | 0.0045 |
| Quebrada El Carmen y Otros Directos al Magdalena         | 0.0045 |
| Río Baché  | 0.0045 |
| Río Metica (Guamal - Humadea)                            | 0.0045 |
| Río Guachicono   | 0.0045 |
| Lago de Tota   | 0.0042 |
| Arroyos Directos al Caribe                               | 0.0042 |
| Alto Nechí   | 0.0042 |
| Directos al Bajo Magdalena entre Calamar y desembocadura | 0.0042 |
| Directos Caribe Golfo de Morrosquillo                    | 0.0040 |
| Río San Juan   | 0.0040 |
| Río Aipe, Río Chenche y otros directos al Magdalena      | 0.0040 |
| Río Opón   | 0.0038 |
| Río Chitaga  | 0.0038 |
| Río Gualí  | 0.0038 |
| Río Palo   | 0.0038 |
| Bajo Vaupés  | 0.0036 |
| Río Neiva  | 0.0036 |
| Río Arma   | 0.0036 |
| Río San Juan del Micay                                   | 0.0036 |
| Río Cimitarra y otros directos al Magdalena              | 0.0036 |
| Río Guachal (Bolo - Fraile y Párraga)                    | 0.0033 |
| Bajo Saldaña   | 0.0033 |
| Ríos Directos al Magdalena (mi)                          | 0.0033 |
| Río Luisa y otros directos al Magdalena                  | 0.0033 |
| Río Mira   | 0.0033 |
| Medio Guaviare   | 0.0033 |
| Río Banadía y otros Directos al Río Arauca               | 0.0033 |
| Dagua - Buenaventura - Bahía Málaga                      | 0.0033 |
| Río Cucuana  | 0.0031 |
| Río Mulatos y otros directos al Caribe                   | 0.0031 |
| Río Taraza - Río Man                                     | 0.0031 |
| Río Tamaná y otros Directos San Juan                     | 0.0031 |
| Río Casanare   | 0.0031 |
| Directos Río Amazonas (mi)                               | 0.0031 |
| Río Tapias y otros directos al Cauca                     | 0.0031 |
| Alto Saldaña   | 0.0031 |
| Río Cravo Sur  | 0.0029 |
| Juncal y otros Ríos directos al Magdalena                | 0.0029 |
| Ríos directos Magdalena (md)                             | 0.0029 |
| Directos al Bajo Magdalena entre El Plato y Calamar      | 0.0029 |
| Río Salado y otros directos Cauca                        | 0.0029 |
| Bajo Guaviare  | 0.0027 |
| Río La Miel (Samaná)                                     | 0.0027 |
| Directos Bajo Meta entre ríos Casanare y Orinoco         | 0.0027 |
| Directos al Cauca entre Pto Valdivia y Río Nechí         | 0.0027 |
| Río Palacé   | 0.0027 |
| Ríos Tulua y Morales                                     | 0.0027 |
| San Andres   | 0.0027 |
| Directos al Río Meta entre ríos Cusiana y Carare         | 0.0024 |
| Río Quinamayo y otros directos al Cauca                  | 0.0024 |

|   |        |
|---|--------|
| Alto Atrato                                       | 0.0024 |
| Río Suaza   | 0.0024 |
| Río Ancho y Otros Directos al caribe              | 0.0024 |
| Directos Pacifico Frontera Panamá                 | 0.0024 |
| Caño Guanápalo y otros directos al Meta           | 0.0024 |
| Río Túa y otros directos al Meta                  | 0.0024 |
| Río Pauto   | 0.0022 |
| Río Piendamo                                      | 0.0022 |
| Río Guachaca - Mendiguaca y Buritaca              | 0.0022 |
| Río Seco y otros Directos al Magdalena            | 0.0022 |
| Río Quito   | 0.0022 |
| Ríos Calima y Bajo San Juan                       | 0.0022 |
| Directos al Magdalena Medio entre ríos Negro      | 0.0022 |
| Alto Guaviare                                     | 0.0022 |
| Río Upía  | 0.0022 |
| Alto San Jorge                                    | 0.0022 |
| Río Humea   | 0.0020 |
| Río Atá   | 0.0020 |
| Directos Magdalena entre ríos Cabrera y Sumapaz   | 0.0020 |
| Río Putumayo Bajo                                 | 0.0020 |
| Río Guayas  | 0.0020 |
| Ríos Chemicuica y Corozal                         | 0.0020 |
| Río Guarínó                                       | 0.0020 |
| Río Guejar  | 0.0020 |
| Río Caqueta Medio                                 | 0.0020 |
| Río Timaná y otros directos al Magdalena          | 0.0020 |
| Río Amoyá   | 0.0018 |
| Ríos Claro y Jamundí                              | 0.0018 |
| Río Patía Medio                                   | 0.0018 |
| Río Murri   | 0.0018 |
| Río Tetuán, Río Ortega                            | 0.0018 |
| Ríos Amaime y Cerrito                             | 0.0018 |
| Río Putumayo Medio                                | 0.0018 |
| Providencia                                       | 0.0018 |
| Río Putumayo Directos (mi)                        | 0.0018 |
| Río Cabi y otros Directos Atrato (md)             | 0.0018 |
| Río Manacacias                                    | 0.0018 |
| Río Tarra   | 0.0016 |
| Directos al Bajo Nechí (mi)                       | 0.0016 |
| Río Sipí  | 0.0016 |
| Río Ovejas  | 0.0016 |
| Río Rosario                                       | 0.0016 |
| Directos Río Arauca (md)                          | 0.0016 |
| Directos al Río Meta entre ríos Humea y Upia (mi) | 0.0016 |
| Río Telembí                                       | 0.0013 |
| Río Guayabero                                     | 0.0013 |
| Río Pescado                                       | 0.0013 |
| Río Mayo  | 0.0013 |
| Río Salaquí y otros directos Bajo Atrato          | 0.0013 |
| Río San Juan Alto                                 | 0.0013 |
| Río Tapias  | 0.0013 |
| Río Ariporo                                       | 0.0013 |
| Ríos Las Cañas - Los Micos y Obando               | 0.0013 |
| Directos Atrato entre ríos Quito y Bojayá (mi)    | 0.0013 |
| Río Tuparro                                       | 0.0013 |

|   |        |
|---|--------|
| Río Bugalagrande  | 0.0011 |
| Río Paila   | 0.0011 |
| Río Cobugón - Río Cobaría                               | 0.0011 |
| Directos Magdalena entre Ríos Guarinó y La Miel         | 0.0011 |
| Río Tolo y otros Directos al Caribe                     | 0.0011 |
| Directos Magdalena Medio entre ríos La Miel y Nare      | 0.0011 |
| Medio Saldaña   | 0.0011 |
| Bajo Catatumbo  | 0.0011 |
| Río Tanela y otros Directos al Caribe                   | 0.0011 |
| Río Guapi   | 0.0011 |
| Directos Río Metica entre ríos Guayuriba y Yucao        | 0.0011 |
| Directos Bajo Cauca - Cga La Raya entre río Nechí       | 0.0011 |
| Río Canalete y otros Arroyos Directos al Caribe         | 0.0011 |
| Ríos Lili, Melendez y Canaveralejo                      | 0.0009 |
| Directos Atrato entre ríos Bebaramá y Murri (md)        | 0.0009 |
| Río Andágueda   | 0.0009 |
| Directos Orinoco entre ríos Tomo y Meta (mi)            | 0.0009 |
| Ríos Cali   | 0.0009 |
| Directos al Magdalena entre Ríos Seco y Negro (md)      | 0.0009 |
| Río Baudó   | 0.0009 |
| Río Docampadó y Directos Pacífico                       | 0.0009 |
| Río Margua  | 0.0009 |
| Directos al Río Meta entre ríos Pauto y Carare          | 0.0009 |
| Río Camarones y otros directos Caribe                   | 0.0009 |
| Río Caguan Bajo   | 0.0007 |
| Río Frío  | 0.0007 |
| Río Patia Bajo  | 0.0007 |
| Río Desbaratado   | 0.0007 |
| Río Guacavía  | 0.0007 |
| Río Timba   | 0.0007 |
| Ríos Guabas,Sabaletas y Sonso                           | 0.0007 |
| Caño Matavén  | 0.0007 |
| Río Caguan Alto   | 0.0007 |
| Bajo Vichada  | 0.0007 |
| Río Opía  | 0.0007 |
| Río Saija   | 0.0007 |
| Río Yucao   | 0.0007 |
| Ríos Guadalajara y San Pedro                            | 0.0007 |
| Río Murindó - Directos al Atrato                        | 0.0007 |
| Río San Juan Medio                                      | 0.0007 |
| Río Igará-Paraná  | 0.0004 |
| Río Cará-Paraná   | 0.0004 |
| Directos Bajo Atrato entre río Sucio y desembocadura    | 0.0004 |
| R._Inirida_(mi),_hasta_bocas_Caño_Bocón,_y_R._Las Viñas | 0.0004 |
| Río Cotuhe  | 0.0004 |
| Río San_Miguel  | 0.0004 |
| Caño Lioni o Terecay                                    | 0.0004 |
| Alto Río Tomo   | 0.0004 |
| Río Melúa   | 0.0004 |
| Río Tapaje  | 0.0004 |
| Río Bebaramá y otros Directos Atrato (md)               | 0.0004 |
| Ríos Cajambre - Mayorquín - Raposo                      | 0.0004 |
| Río Capoma y otros directos al San Juan                 | 0.0004 |
| Bajo Río Tomo   | 0.0004 |
| Río Naya - Yurumanguí                                   | 0.0004 |

|  |        |
|--|--------|
| Ríos Arroyohondo - Yumbo - Mulalo - Vijes - Yotoco | 0.0004 |
| Río Muco   | 0.0002 |
| Río Bojabá   | 0.0002 |
| Río Socuavo del Norte y Río Socuavo Sur            | 0.0002 |
| Río Querary  | 0.0002 |
| Río Inírida Alto                                   | 0.0002 |
| Bajo Río Apaporis                                  | 0.0002 |
| Río Cajón  | 0.0002 |
| Directos al Meta entre ríos Cusiana y Cravo Sur    | 0.0002 |
| Río San Juan (Frontera Ecuador)                    | 0.0002 |
| Río Cravo Norte                                    | 0.0002 |
| Río Bojayá   | 0.0002 |
| Río Don Diego                                      | 0.0002 |
| Río Timbiquí                                       | 0.0002 |
| Roncador y Quitasueño                              | 0.0002 |
| Río Mesay  | 0.0002 |
| Río Guape  | 0.0002 |
| Río Napipí - Río Opogadó                           | 0.0002 |
| Río Vita   | 0.0002 |
| Río del Suroeste y directos Río de Oro             | 0.0002 |
| Río Anchicayá                                      | 0.0002 |
| Río Cuñare   | 0.0002 |

Name: SUBZONA\_HIDROGRAFICA, dtype: float64

## Installation year - Count:

|        |    |
|--------|----|
| 1900.0 | 1  |
| 1915.0 | 1  |
| 1922.0 | 3  |
| 1924.0 | 1  |
| 1928.0 | 1  |
| 1929.0 | 1  |
| 1930.0 | 2  |
| 1931.0 | 10 |
| 1932.0 | 6  |
| 1933.0 | 1  |
| 1934.0 | 7  |
| 1936.0 | 3  |
| 1937.0 | 4  |
| 1939.0 | 1  |
| 1940.0 | 7  |
| 1941.0 | 4  |
| 1942.0 | 2  |
| 1943.0 | 1  |
| 1944.0 | 3  |
| 1945.0 | 5  |
| 1946.0 | 14 |
| 1947.0 | 3  |
| 1948.0 | 5  |
| 1949.0 | 1  |
| 1950.0 | 2  |
| 1951.0 | 5  |
| 1952.0 | 8  |
| 1953.0 | 11 |
| 1954.0 | 9  |
| 1955.0 | 13 |



|        |     |
|--------|-----|
| 1956.0 | 12  |
| 1957.0 | 22  |
| 1958.0 | 117 |
| 1959.0 | 64  |
| 1960.0 | 39  |
| 1961.0 | 26  |
| 1962.0 | 43  |
| 1963.0 | 106 |
| 1964.0 | 72  |
| 1965.0 | 81  |
| 1966.0 | 77  |
| 1967.0 | 94  |
| 1968.0 | 107 |
| 1969.0 | 72  |
| 1970.0 | 158 |
| 1971.0 | 250 |
| 1972.0 | 173 |
| 1973.0 | 213 |
| 1974.0 | 242 |
| 1975.0 | 110 |
| 1976.0 | 92  |
| 1977.0 | 86  |
| 1978.0 | 124 |
| 1979.0 | 164 |
| 1980.0 | 157 |
| 1981.0 | 75  |
| 1982.0 | 40  |
| 1983.0 | 175 |
| 1984.0 | 152 |
| 1985.0 | 71  |
| 1986.0 | 112 |
| 1987.0 | 60  |
| 1988.0 | 28  |
| 1989.0 | 40  |
| 1990.0 | 65  |
| 1991.0 | 26  |
| 1992.0 | 42  |
| 1993.0 | 30  |
| 1994.0 | 33  |
| 1995.0 | 23  |
| 1996.0 | 13  |
| 1997.0 | 31  |
| 1998.0 | 4   |
| 1999.0 | 17  |
| 2000.0 | 6   |
| 2001.0 | 14  |
| 2002.0 | 7   |
| 2003.0 | 7   |
| 2004.0 | 59  |
| 2005.0 | 99  |
| 2006.0 | 21  |
| 2007.0 | 29  |
| 2008.0 | 19  |
| 2009.0 | 12  |
| 2010.0 | 14  |

|        |     |
|--------|-----|
| 2011.0 | 9   |
| 2012.0 | 6   |
| 2013.0 | 12  |
| 2014.0 | 45  |
| 2015.0 | 19  |
| 2016.0 | 43  |
| 2017.0 | 100 |
| 2018.0 | 64  |
| 2019.0 | 24  |
| 2020.0 | 4   |
| 2021.0 | 3   |

Name: FECHA\_INSTALACION, dtype: int64

Installation year - Normalize percentage rate:

|        |        |
|--------|--------|
| 1900.0 | 0.0002 |
| 1915.0 | 0.0002 |
| 1922.0 | 0.0007 |
| 1924.0 | 0.0002 |
| 1928.0 | 0.0002 |
| 1929.0 | 0.0002 |
| 1930.0 | 0.0004 |
| 1931.0 | 0.0022 |
| 1932.0 | 0.0013 |
| 1933.0 | 0.0002 |
| 1934.0 | 0.0016 |
| 1936.0 | 0.0007 |
| 1937.0 | 0.0009 |
| 1939.0 | 0.0002 |
| 1940.0 | 0.0016 |
| 1941.0 | 0.0009 |
| 1942.0 | 0.0004 |
| 1943.0 | 0.0002 |
| 1944.0 | 0.0007 |
| 1945.0 | 0.0011 |
| 1946.0 | 0.0031 |
| 1947.0 | 0.0007 |
| 1948.0 | 0.0011 |
| 1949.0 | 0.0002 |
| 1950.0 | 0.0004 |
| 1951.0 | 0.0011 |
| 1952.0 | 0.0018 |
| 1953.0 | 0.0025 |
| 1954.0 | 0.0020 |
| 1955.0 | 0.0029 |
| 1956.0 | 0.0027 |
| 1957.0 | 0.0049 |
| 1958.0 | 0.0261 |
| 1959.0 | 0.0143 |
| 1960.0 | 0.0087 |
| 1961.0 | 0.0058 |
| 1962.0 | 0.0096 |
| 1963.0 | 0.0236 |
| 1964.0 | 0.0160 |
| 1965.0 | 0.0180 |
| 1966.0 | 0.0172 |

|        |        |
|--------|--------|
| 1967.0 | 0.0209 |
| 1968.0 | 0.0238 |
| 1969.0 | 0.0160 |
| 1970.0 | 0.0352 |
| 1971.0 | 0.0557 |
| 1972.0 | 0.0385 |
| 1973.0 | 0.0474 |
| 1974.0 | 0.0539 |
| 1975.0 | 0.0245 |
| 1976.0 | 0.0205 |
| 1977.0 | 0.0192 |
| 1978.0 | 0.0276 |
| 1979.0 | 0.0365 |
| 1980.0 | 0.0350 |
| 1981.0 | 0.0167 |
| 1982.0 | 0.0089 |
| 1983.0 | 0.0390 |
| 1984.0 | 0.0339 |
| 1985.0 | 0.0158 |
| 1986.0 | 0.0249 |
| 1987.0 | 0.0134 |
| 1988.0 | 0.0062 |
| 1989.0 | 0.0089 |
| 1990.0 | 0.0145 |
| 1991.0 | 0.0058 |
| 1992.0 | 0.0094 |
| 1993.0 | 0.0067 |
| 1994.0 | 0.0074 |
| 1995.0 | 0.0051 |
| 1996.0 | 0.0029 |
| 1997.0 | 0.0069 |
| 1998.0 | 0.0009 |
| 1999.0 | 0.0038 |
| 2000.0 | 0.0013 |
| 2001.0 | 0.0031 |
| 2002.0 | 0.0016 |
| 2003.0 | 0.0016 |
| 2004.0 | 0.0131 |
| 2005.0 | 0.0221 |
| 2006.0 | 0.0047 |
| 2007.0 | 0.0065 |
| 2008.0 | 0.0042 |
| 2009.0 | 0.0027 |
| 2010.0 | 0.0031 |
| 2011.0 | 0.0020 |
| 2012.0 | 0.0013 |
| 2013.0 | 0.0027 |
| 2014.0 | 0.0100 |
| 2015.0 | 0.0042 |
| 2016.0 | 0.0096 |
| 2017.0 | 0.0223 |
| 2018.0 | 0.0143 |
| 2019.0 | 0.0053 |
| 2020.0 | 0.0009 |
| 2021.0 | 0.0007 |

Name: FECHA\_INSTALACION, dtype: float64

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Pivot tables  
-----

| ESTADO                 | Activa | En Mantenimiento | Suspendida |
|------------------------|--------|------------------|------------|
| CATEGORIA              |        |                  |            |
| Agrometeorológica      | 58.0   | 1.0              | 15.0       |
| Climática Ordinaria    | 250.0  | 5.0              | 251.0      |
| Climática Principal    | 268.0  | 1.0              | 86.0       |
| Limnigráfica           | 413.0  | 4.0              | 156.0      |
| Limnimétrica           | 319.0  | 3.0              | 551.0      |
| Mareográfica           | 5.0    | 1.0              | 5.0        |
| Meteorológica Especial | 69.0   | NaN              | 79.0       |
| Pluviográfica          | 107.0  | NaN              | 85.0       |
| Pluviométrica          | 1110.0 | 1.0              | 591.0      |
| Radio Sonda            | 11.0   | NaN              | 3.0        |
| Sinóptica Principal    | 29.0   | 1.0              | 3.0        |
| Sinóptica Secundaria   | 4.0    | NaN              | 7.0        |

| ESTADO                    | Activa | En Mantenimiento | Suspendida |
|---------------------------|--------|------------------|------------|
| TECNOLOGIA                |        |                  |            |
| Automática con Telemetría | 632.0  | 6.0              | 54.0       |
| Automática sin Telemetría | 34.0   | NaN              | 9.0        |
| Convencional              | 1977.0 | 11.0             | 1769.0     |

| ESTADO   | Activa | En Mantenimiento | \ |
|--|--------|------------------|---|
| DEPARTAMENTO                                       |        |                  |   |
| Amazonas   | 35.0   | NaN              |   |
| Antioquia  | 222.0  | NaN              |   |
| Arauca   | 17.0   | NaN              |   |
| Archipiélago de San Andres, Providencia y Santa... | 14.0   | NaN              |   |
| Atlántico  | 34.0   | NaN              |   |
| Bogotá   | 28.0   | NaN              |   |
| Bolívar  | 119.0  | NaN              |   |
| Boyacá   | 214.0  | 1.0              |   |
| Caldas   | 60.0   | NaN              |   |
| Caquetá  | 32.0   | 3.0              |   |
| Casanare   | 49.0   | NaN              |   |
| Cauca  | 144.0  | 1.0              |   |
| Cesar  | 93.0   | NaN              |   |
| Chocó  | 74.0   | NaN              |   |
| Cundinamarca                                       | 179.0  | 2.0              |   |
| Córdoba  | 91.0   | NaN              |   |
| Guainía  | 9.0    | NaN              |   |
| Guaviare   | 10.0   | NaN              |   |
| Huila  | 137.0  | 2.0              |   |
| La Guajira   | 93.0   | 1.0              |   |
| Magdalena  | 91.0   | NaN              |   |
| Meta   | 88.0   | 2.0              |   |

|                    |       |     |
|--------------------|-------|-----|
| Nariño             | 101.0 | 1.0 |
| Norte de Santander | 102.0 | NaN |
| Putumayo           | 40.0  | NaN |
| Quindío            | 10.0  | 1.0 |
| Risaralda          | 42.0  | NaN |
| Santander          | 151.0 | 1.0 |
| Sucre              | 50.0  | NaN |
| Tolima             | 169.0 | NaN |
| Valle del Cauca    | 99.0  | 1.0 |
| Vaupes             | 15.0  | NaN |
| Vichada            | 31.0  | 1.0 |

| ESTADO   | Suspendida |
|--|------------|
| DEPARTAMENTO                                       |            |
| Amazonas   | 17.0       |
| Antioquia  | 172.0      |
| Arauca   | 18.0       |
| Archipiélago de San Andres, Providencia y Santa... | 7.0        |
| Atlántico  | 35.0       |
| Bogotá   | 39.0       |
| Bolívar  | 135.0      |
| Boyacá   | 103.0      |
| Caldas   | 31.0       |
| Caquetá  | 18.0       |
| Casanare   | 22.0       |
| Cauca  | 76.0       |
| Cesar  | 80.0       |
| Chocó  | 34.0       |
| Cundinamarca                                       | 66.0       |
| Córdoba  | 91.0       |
| Guainía  | 3.0        |
| Guaviare   | 7.0        |
| Huila  | 102.0      |
| La Guajira   | 77.0       |
| Magdalena  | 59.0       |
| Meta   | 64.0       |
| Nariño   | 27.0       |
| Norte de Santander                                 | 122.0      |
| Putumayo   | 35.0       |
| Quindío  | 1.0        |
| Risaralda  | 38.0       |
| Santander  | 141.0      |
| Sucre  | 24.0       |
| Tolima   | 120.0      |
| Valle del Cauca                                    | 48.0       |
| Vaupes   | 3.0        |
| Vichada  | 17.0       |

| ESTADO                                      | Activa | En Mantenimiento \ |
|---|--------|--------------------|
| AREA_OPERATIVA                              |        |                    |
| Area Operativa 01 - Antioquia-Chocó         | 271.0  | NaN                |
| Area Operativa 02 - Atlántico-Bolivar-Sucre | 290.0  | NaN                |
| Area Operativa 03 - Meta-Guaviare-Guainía   | 177.0  | 3.0                |
| Area Operativa 04 - Huila-Caquetá           | 202.0  | 5.0                |

|  |       |     |
|--|-------|-----|
| Area Operativa 05 - Magdalena-Cesar-Guajira        | 244.0 | 1.0 |
| Area Operativa 06 - Boyacá-Casanare-Vichada        | 263.0 | 1.0 |
| Area Operativa 07 - Nariño-Putumayo                | 203.0 | 1.0 |
| Area Operativa 08 - Santanderes-Arauca             | 291.0 | 1.0 |
| Area Operativa 09 - Cauca-Valle-Caldas             | 293.0 | 3.0 |
| Area Operativa 10 - Tolima                         | 197.0 | NaN |
| Area Operativa 11 - Cundinamarca-Amazonas-San A... | 212.0 | 2.0 |

|  |            |
|--|------------|
| ESTADO   | Suspendida |
| AREA_OPERATIVA                                     |            |
| Area Operativa 01 - Antioquia-Chocó                | 203.0      |
| Area Operativa 02 - Atlántico-Bolivar-Sucre        | 260.0      |
| Area Operativa 03 - Meta-Guaviare-Guainía          | 106.0      |
| Area Operativa 04 - Huila-Caquetá                  | 140.0      |
| Area Operativa 05 - Magdalena-Cesar-Guajira        | 203.0      |
| Area Operativa 06 - Boyacá-Casanare-Vichada        | 117.0      |
| Area Operativa 07 - Nariño-Putumayo                | 91.0       |
| Area Operativa 08 - Santanderes-Arauca             | 313.0      |
| Area Operativa 09 - Cauca-Valle-Caldas             | 153.0      |
| Area Operativa 10 - Tolima                         | 135.0      |
| Area Operativa 11 - Cundinamarca-Amazonas-San A... | 111.0      |

|                   |        |                  |            |
|-------------------|--------|------------------|------------|
| ESTADO            | Activa | En Mantenimiento | Suspendida |
| AREA_HIDROGRAFICA |        |                  |            |
| Amazonas          | 140    | 3                | 80         |
| Caribe            | 381    | 1                | 374        |
| Magdalena Cauca   | 1551   | 9                | 1112       |
| Orinoco           | 367    | 3                | 197        |
| Pacifico          | 204    | 1                | 69         |

|                                  |        |                  |            |
|----------------------------------|--------|------------------|------------|
| ESTADO                           | Activa | En Mantenimiento | Suspendida |
| ZONA_HIDROGRAFICA                |        |                  |            |
| Alto Magdalena                   | 370.0  | 2.0              | 267.0      |
| Amazonas - Directos              | 8.0    | NaN              | 6.0        |
| Apaporis                         | NaN    | NaN              | 1.0        |
| Arauca                           | 25.0   | NaN              | 24.0       |
| Atrato - Darién                  | 61.0   | NaN              | 37.0       |
| Bajo Magdalena                   | 169.0  | NaN              | 144.0      |
| Bajo Magdalena- Cauca -San Jorge | 93.0   | NaN              | 59.0       |
| Baudó - Directos Pacifico        | 4.0    | NaN              | 4.0        |
| Caguan                           | 8.0    | 1.0              | 6.0        |
| Caquetá                          | 61.0   | 2.0              | 31.0       |
| Caribe - Guajira                 | 107.0  | 1.0              | 90.0       |
| Caribe - Litoral                 | 58.0   | NaN              | 38.0       |
| Casanare                         | 17.0   | NaN              | 4.0        |
| Catatumbo                        | 85.0   | NaN              | 112.0      |
| Cauca                            | 306.0  | 3.0              | 193.0      |
| Cesar                            | 88.0   | NaN              | 79.0       |
| Guaviare                         | 51.0   | NaN              | 36.0       |
| Inírida                          | 3.0    | NaN              | NaN        |
| Islas Caribe                     | 14.0   | NaN              | 7.0        |
| Medio Magdalena                  | 221.0  | 3.0              | 197.0      |
| Meta                             | 257.0  | 2.0              | 124.0      |

|                           |       |     |       |
|---------------------------|-------|-----|-------|
| Mira                      | 16.0  | NaN | 7.0   |
| Nechí                     | 52.0  | NaN | 38.0  |
| Orinoco Directos          | 7.0   | 1.0 | 6.0   |
| Pacífico - Directos       | 7.0   | NaN | 4.0   |
| Patía                     | 110.0 | 1.0 | 31.0  |
| Putumayo                  | 47.0  | NaN | 33.0  |
| Saldaña                   | 48.0  | NaN | 25.0  |
| San Juan                  | 33.0  | NaN | 10.0  |
| Sinú                      | 56.0  | NaN | 90.0  |
| Sogamoso                  | 204.0 | 1.0 | 110.0 |
| Tapaje - Dagua - Directos | 34.0  | NaN | 13.0  |
| Tomo                      | 4.0   | NaN | 2.0   |
| Vaupés                    | 15.0  | NaN | 2.0   |
| Vichada                   | 3.0   | NaN | 1.0   |
| Yarí                      | 1.0   | NaN | 1.0   |

| ESTADO   | Activa | En Mantenimiento \ |
|--|--------|--------------------|
| SUBZONA_HIDROGRAFICA                               |        |                    |
| Alto Atrato  | 5.0    | NaN                |
| Alto Caqueta                                       | 20.0   | NaN                |
| Alto Cesar   | 12.0   | NaN                |
| Alto Guaviare                                      | 5.0    | NaN                |
| Alto Magdalena                                     | 22.0   | NaN                |
| Alto Nechí   | 10.0   | NaN                |
| Alto Río Cauca                                     | 19.0   | NaN                |
| Alto Río Putumayo                                  | 24.0   | NaN                |
| Alto Río Tomo                                      | 1.0    | NaN                |
| Alto Saldaña                                       | 8.0    | NaN                |
| Alto San Jorge                                     | 9.0    | NaN                |
| Alto Sinú - Urrá                                   | NaN    | NaN                |
| Arroyos Directos al Caribe                         | 14.0   | NaN                |
| Bajo Catatumbo                                     | 3.0    | NaN                |
| Bajo Cesar   | 24.0   | NaN                |
| Bajo Guaviare                                      | 9.0    | NaN                |
| Bajo Nechí (md)                                    | 8.0    | NaN                |
| Bajo Río Apaporis                                  | NaN    | NaN                |
| Bajo Río Tomo                                      | 2.0    | NaN                |
| Bajo Saldaña                                       | 7.0    | NaN                |
| Bajo San Jorge - La Mojana                         | 81.0   | NaN                |
| Bajo Sinú  | 43.0   | NaN                |
| Bajo Vaupés  | 14.0   | NaN                |
| Bajo Vichada                                       | 2.0    | NaN                |
| Canal del Dique margen derecho                     | 21.0   | NaN                |
| Canal del Dique margen izquierda                   | 39.0   | NaN                |
| Caño Guanápalo y otros directos al Meta            | 6.0    | NaN                |
| Caño Lioni o Terecay                               | 1.0    | NaN                |
| Caño Matavén                                       | 2.0    | NaN                |
| Cga Grande de Santa Marta                          | 40.0   | NaN                |
| Dagua - Buenaventura - Bahia Málaga                | 12.0   | NaN                |
| Directos Atrato entre ríos Bebaramá y Murri (md)   | 3.0    | NaN                |
| Directos Atrato entre ríos Quito y Bojayá (mi)     | 5.0    | NaN                |
| Directos Bajo Atrato entre río Sucio y desemboc... | 1.0    | NaN                |
| Directos Bajo Cauca - Cga La Raya entre río Nechí  | 4.0    | NaN                |
| Directos Bajo Magdalena entre El Banco y El Plato  | 39.0   | NaN                |

|   |      |     |
|---|------|-----|
| Directos Bajo Meta entre ríos Casanare y Orinoco    | 11.0 | NaN |
| Directos Caribe - Ay.Sharimahana Alta Guajira       | 12.0 | 1.0 |
| Directos Caribe Golfo de Morrosquillo               | 12.0 | NaN |
| Directos Magdalena Medio entre ríos La Miel y Nare  | 3.0  | NaN |
| Directos Magdalena entre Ríos Guarinó y La Miel     | 1.0  | NaN |
| Directos Magdalena entre ríos Cabrera y Sumapaz     | 5.0  | NaN |
| Directos Orinoco entre ríos Tomo y Meta (mi)        | 1.0  | 1.0 |
| Directos Pacifico Frontera Panamá                   | 7.0  | NaN |
| Directos Río Metica entre ríos Guayuriba y Yucao    | 4.0  | NaN |
| Directos Río Amazonas (mi)                          | 8.0  | NaN |
| Directos Río Arauca (md)                            | 4.0  | NaN |
| Directos Río Cauca entre Río San Juan y Pto V...    | 19.0 | NaN |
| Directos Río Cauca entre Río San Juan y Pto Valdia  | 15.0 | NaN |
| Directos al Bajo Magdalena entre Calamar y dese...  | 13.0 | NaN |
| Directos al Bajo Magdalena entre El Plato y Cal...  | 9.0  | NaN |
| Directos al Bajo Nechí (mi)                         | 6.0  | NaN |
| Directos al Cauca entre Pto Valdivia y Río Nechí    | 5.0  | NaN |
| Directos al Magdalena (Brazo Morales)               | 9.0  | NaN |
| Directos al Magdalena Medio entre ríos Negro        | 5.0  | NaN |
| Directos al Magdalena entre Ríos Seco y Negro (md)  | 3.0  | NaN |
| Directos al Meta entre ríos Cusiana y Cravo Sur     | NaN  | NaN |
| Directos al Río Meta entre ríos Cusiana y Carare    | 6.0  | NaN |
| Directos al Río Meta entre ríos Humea y Upia (mi)   | 4.0  | NaN |
| Directos al Río Meta entre ríos Pauto y Carare      | 2.0  | NaN |
| Juncal y otros Rios directos al Magdalena           | 5.0  | NaN |
| Lago de Tota  | 16.0 | NaN |
| Medio Cesar   | 34.0 | NaN |
| Medio Guaviare                                      | 8.0  | NaN |
| Medio Saldaña                                       | 5.0  | NaN |
| Medio Sinú  | 13.0 | NaN |
| Providencia   | 6.0  | NaN |
| Quebrada El Carmen y Otros Directos al Magdalena    | 11.0 | NaN |
| R._Inírida_(mi),_hasta_bocas_Caño_Bocón,_y_R._L...  | 2.0  | NaN |
| Río Banadia y otros Directos al Río Arauca          | 3.0  | NaN |
| Río Canalete y otros Arroyos Directos al Caribe     | 5.0  | NaN |
| Río Fortalecillas y otros                           | 21.0 | NaN |
| Río Guachaca - Mendiguaca y Buritaca                | 6.0  | NaN |
| Río Metica (Guamal - Humadea)                       | 10.0 | 1.0 |
| Río Neiva   | 8.0  | NaN |
| Río Salado y otros directos Cauca                   | 10.0 | 1.0 |
| Río Tapias y otros directos al Cauca                | 7.0  | NaN |
| Ríos Arroyohondo - Yumbo - Mulalo - Vijes - Yotoco  | 2.0  | NaN |
| Ríos Las Cañas - Los Micos y Obando                 | 6.0  | NaN |
| Ríos Pescador - RUT - Chanco - Catarina y Cañav...  | 8.0  | NaN |
| Riío San Bartolo y otros directos al Magdalena M... | 13.0 | NaN |
| Roncador y Quitasueño                               | NaN  | NaN |
| Río Piedras - Río Manzanares                        | 12.0 | NaN |
| Río Aipe, Río Chenche y otros directos al Magda...  | 14.0 | NaN |
| Río Algodonal (Alto Catatumbo)                      | 18.0 | NaN |
| Río Amoyá   | 5.0  | NaN |
| Río Anchicayá                                       | 1.0  | NaN |
| Río Ancho y Otros Directos al caribe                | 6.0  | NaN |
| Río Andágueda                                       | 4.0  | NaN |
| Río Ariari  | 15.0 | NaN |
| Río Ariguaní  | 18.0 | NaN |



|  |       |     |
|--|-------|-----|
| Río Ariporo  | 6.0   | NaN |
| Río Arma   | 14.0  | NaN |
| Río Atá  | 8.0   | NaN |
| Río Baché  | 9.0   | 1.0 |
| Río Baudó  | 3.0   | NaN |
| Río Bebaramá y otros Directos Atrato (md)          | 2.0   | NaN |
| Río Bogotá   | 79.0  | NaN |
| Río Bojabá   | NaN   | NaN |
| Río Bojayá   | NaN   | NaN |
| Río Bugalagrande                                   | 5.0   | NaN |
| Río Cabi y otros Directos Atrato (md)              | 7.0   | NaN |
| Río Cabrera  | 14.0  | NaN |
| Río Caguan Alto                                    | 3.0   | NaN |
| Río Caguan Bajo                                    | 2.0   | NaN |
| Río Cajón  | 1.0   | NaN |
| Río Camarones y otros directos Caribe              | 2.0   | NaN |
| Río Capoma y otros directos al San Juan            | 1.0   | NaN |
| Río Caqueta Bajo                                   | 13.0  | 1.0 |
| Río Caqueta Medio                                  | 7.0   | NaN |
| Río Carare (Minero)                                | 23.0  | NaN |
| Río Carraipia - Paraguachon, Directos al Golfo ... | 15.0  | NaN |
| Río Cará-Paraná                                    | 1.0   | NaN |
| Río Casanare                                       | 10.0  | NaN |
| Río Chicamocha                                     | 114.0 | 1.0 |
| Río Chinchiná                                      | 23.0  | NaN |
| Río Chítaga  | 11.0  | NaN |
| Río Cimitarra y otros directos al Magdalena        | 3.0   | NaN |
| Río Cobugón - Río Cobaría                          | 3.0   | NaN |
| Río Coello   | 31.0  | NaN |
| Río Cotuhe   | 2.0   | NaN |
| Río Cravo Norte                                    | 1.0   | NaN |
| Río Cravo Sur                                      | 10.0  | NaN |
| Río Cusiana  | 16.0  | NaN |
| Río Cuñare   | 1.0   | NaN |
| Río Desbaratado                                    | 2.0   | NaN |
| Río Docampadó y Directos Pacífico                  | 1.0   | NaN |
| Río Don Diego                                      | NaN   | NaN |
| Río Fonce  | 18.0  | NaN |
| Río Frío   | 2.0   | NaN |
| Río Frío y Otros Directos al Cauca                 | 11.0  | NaN |
| Río Garagoa  | 38.0  | NaN |
| Río Guacavía                                       | 3.0   | NaN |
| Río Guachal (Bolo - Fraile y Párraga)              | 10.0  | NaN |
| Río Guachicono                                     | 16.0  | NaN |
| Río Gualí  | 8.0   | NaN |
| Río Guape  | 1.0   | NaN |
| Río Guapi  | 3.0   | NaN |
| Río Guarinó  | 8.0   | NaN |
| Río Guatiquía                                      | 18.0  | NaN |
| Río Guavio   | 25.0  | NaN |
| Río Guayabero                                      | 4.0   | NaN |
| Río Guayas   | 3.0   | 1.0 |
| Río Guayuriba                                      | 30.0  | NaN |
| Río Guejar   | 9.0   | NaN |
| Río Guáitara                                       | 29.0  | NaN |

|  |      |     |
|--|------|-----|
| Río Humea  | 4.0  | NaN |
| Río Igará-Paraná                                   | 2.0  | NaN |
| Río Inírida Alto                                   | 1.0  | NaN |
| Río Juananbú                                       | 25.0 | NaN |
| Río La Miel (Samaná)                               | 9.0  | NaN |
| Río La Vieja                                       | 23.0 | 1.0 |
| Río Lagunilla y Otros Directos al Magdalena        | 23.0 | NaN |
| Río Lebrija y otros directos al Magdalena          | 61.0 | 1.0 |
| Río Lengupá  | 19.0 | NaN |
| Río León   | 17.0 | NaN |
| Río Luisa y otros directos al Magdalena            | 9.0  | NaN |
| Río Manacacias                                     | 4.0  | NaN |
| Río Margua   | 4.0  | NaN |
| Río Mayo   | 3.0  | NaN |
| Río Melúa  | NaN  | 1.0 |
| Río Mesay  | NaN  | NaN |
| Río Mira   | 11.0 | NaN |
| Río Muco   | 1.0  | NaN |
| Río Mulatos y otros directos al Caribe             | 7.0  | NaN |
| Río Murindó - Directos al Atrato                   | NaN  | NaN |
| Río Murri  | 4.0  | NaN |
| Río Napipí - Río Opogadó                           | 1.0  | NaN |
| Río Nare   | 31.0 | NaN |
| Río Naya - Yurumanguí                              | 2.0  | NaN |
| Río Negro  | 26.0 | 2.0 |
| Río Nuevo Presidente - Tres Bocas (Sardinata, T... | 13.0 | NaN |
| Río Opía   | 3.0  | NaN |
| Río Opón   | 11.0 | NaN |
| Río Orteguzaza                                     | 17.0 | 1.0 |
| Río Otún y otros directos al Cauca                 | 25.0 | NaN |
| Río Ovejas   | 6.0  | NaN |
| Río Paila  | 5.0  | NaN |
| Río Palacé   | 9.0  | NaN |
| Río Palo   | 7.0  | NaN |
| Río Pamplonita                                     | 21.0 | NaN |
| Río Patia Alto                                     | 24.0 | NaN |
| Río Patia Bajo                                     | 3.0  | NaN |
| Río Patia Medio                                    | 5.0  | NaN |
| Río Pauto  | 9.0  | NaN |
| Río Pescado  | 4.0  | NaN |
| Río Piendamo                                       | 6.0  | NaN |
| Río Porce  | 28.0 | NaN |
| Río Prado  | 17.0 | NaN |
| Río Putumayo Bajo                                  | 6.0  | NaN |
| Río Putumayo Directos (mi)                         | 6.0  | NaN |
| Río Putumayo Medio                                 | 4.0  | NaN |
| Río Páez   | 27.0 | NaN |
| Río Querary  | 1.0  | NaN |
| Río Quinamayo y otros directos al Cauca            | 9.0  | NaN |
| Río Quito  | 9.0  | NaN |
| Río Ranchería                                      | 52.0 | NaN |
| Río Risaralda                                      | 14.0 | NaN |
| Río Rosario  | 4.0  | NaN |
| Río Saija  | 2.0  | NaN |
| Río Salaquí y otros directos Bajo Atrato           | 1.0  | NaN |

|  |      |     |
|--|------|-----|
| Río San Juan                             | 10.0 | NaN |
| Río San Juan (Frontera Ecuador)          | 1.0  | NaN |
| Río San Juan Alto                        | 5.0  | NaN |
| Río San Juan Medio                       | 2.0  | NaN |
| Río San Juan del Micay                   | 9.0  | NaN |
| Río San_Miguel                           | 2.0  | NaN |
| Río Seco y otros Directos al Magdalena   | 9.0  | NaN |
| Río Sipí                                 | 5.0  | NaN |
| Río Socuavo del Norte y Río Socuavo Sur  | 1.0  | NaN |
| Río Sogamoso                             | 12.0 | NaN |
| Río Suaza                                | 6.0  | NaN |
| Río Sucio                                | 13.0 | NaN |
| Río Sumapaz                              | 23.0 | NaN |
| Río Suárez                               | 60.0 | NaN |
| Río Tamaná y otros Directos San Juan     | 10.0 | NaN |
| Río Tanela y otros Directos al Caribe    | 2.0  | NaN |
| Río Tapaje                               | 2.0  | NaN |
| Río Tapias                               | 2.0  | NaN |
| Río Taraza - Río Man                     | 7.0  | NaN |
| Río Tarra                                | 2.0  | NaN |
| Río Telembí                              | 5.0  | 1.0 |
| Río Tetuán, Río Ortega                   | 7.0  | NaN |
| Río Timaná y otros directos al Magdalena | 5.0  | NaN |
| Río Timba                                | 2.0  | NaN |
| Río Timbiquí                             | 1.0  | NaN |
| Río Tolo y otros Directos al Caribe      | 4.0  | NaN |
| Río Totare                               | 10.0 | NaN |
| Río Tuparro                              | 4.0  | NaN |
| Río Túa y otros directos al Meta         | 9.0  | NaN |
| Río Upía                                 | 6.0  | NaN |
| Río Vita                                 | NaN  | NaN |
| Río Yaguará y Río Iquira                 | 12.0 | 1.0 |
| Río Yucao                                | 3.0  | NaN |
| Río Zulia                                | 27.0 | NaN |
| Río del Suroeste y directos Río de Oro   | NaN  | NaN |
| Ríos Amaime y Cerrito                    | 6.0  | NaN |
| Ríos Cajambre - Mayorquín - Raposo       | 2.0  | NaN |
| Ríos Cali                                | 3.0  | NaN |
| Ríos Calima y Bajo San Juan              | 9.0  | NaN |
| Ríos Chemicuica y Corozal                | 8.0  | NaN |
| Ríos Claro y Jamundí                     | 5.0  | NaN |
| Ríos Directos al Magdalena (mi)          | 10.0 | NaN |
| Ríos Guabas,Sabaletas y Sonso            | 2.0  | NaN |
| Ríos Guadalajara y San Pedro             | 1.0  | NaN |
| Ríos Lili, Melendez y Canaveral          | 3.0  | NaN |
| Ríos Tulua y Morales                     | 7.0  | 1.0 |
| Ríos directos Magdalena (md)             | 8.0  | NaN |
| Río Cucuana                              | 8.0  | NaN |
| San Andres                               | 8.0  | NaN |

ESTADO

Suspendida

SUBZONA\_HIDROGRAFICA

|              |      |
|--------------|------|
| Alto Atrato  | 6.0  |
| Alto Caqueta | 12.0 |
| Alto Cesar   | 18.0 |

|  |      |
|--|------|
| Alto Guaviare                                      | 5.0  |
| Alto Magdalena                                     | 5.0  |
| Alto Nechí   | 9.0  |
| Alto Río Cauca                                     | 11.0 |
| Alto Río Putumayo                                  | 23.0 |
| Alto Río Tomo                                      | 1.0  |
| Alto Saldaña                                       | 6.0  |
| Alto San Jorge                                     | 1.0  |
| Alto Sinú - Urrá                                   | 22.0 |
| Arroyos Directos al Caribe                         | 5.0  |
| Bajo Catatumbo                                     | 2.0  |
| Bajo Cesar   | 7.0  |
| Bajo Guaviare                                      | 3.0  |
| Bajo Nechí (md)                                    | 15.0 |
| Bajo Río Apaporis                                  | 1.0  |
| Bajo Río Tomo                                      | NaN  |
| Bajo Saldaña                                       | 8.0  |
| Bajo San Jorge - La Mojana                         | 58.0 |
| Bajo Sinú  | 52.0 |
| Bajo Vaupés  | 2.0  |
| Bajo Vichada                                       | 1.0  |
| Canal del Dique margen derecho                     | 25.0 |
| Canal del Dique margen izquierda                   | 48.0 |
| Caño Guanápalo y otros directos al Meta            | 5.0  |
| Caño Lioni o Terecay                               | 1.0  |
| Caño Matavén                                       | 1.0  |
| Cga Grande de Santa Marta                          | 31.0 |
| Dagua - Buenaventura - Bahia Málaga                | 3.0  |
| Directos Atrato entre ríos Bebaramá y Murri (md)   | 1.0  |
| Directos Atrato entre ríos Quito y Bojayá (mi)     | 1.0  |
| Directos Bajo Atrato entre río Sucio y desemboc... | 1.0  |
| Directos Bajo Cauca - Cga La Raya entre río Nechí  | 1.0  |
| Directos Bajo Magdalena entre El Banco y El Plato  | 29.0 |
| Directos Bajo Meta entre ríos Casanare y Orinoco   | 1.0  |
| Directos Caribe - Ay.Sharimahana Alta Guajira      | 10.0 |
| Directos Caribe Golfo de Morrosquillo              | 6.0  |
| Directos Magdalena Medio entre ríos La Miel y Nare | 2.0  |
| Directos Magdalena entre Ríos Guarinó y La Miel    | 4.0  |
| Directos Magdalena entre ríos Cabrera y Sumapaz    | 4.0  |
| Directos Orinoco entre ríos Tomo y Meta (mi)       | 2.0  |
| Directos Pacifico Frontera Panamá                  | 4.0  |
| Directos Rio Metica entre ríos Guayuriba y Yucao   | 1.0  |
| Directos Río Amazonas (mi)                         | 6.0  |
| Directos Río Arauca (md)                           | 3.0  |
| Directos Río Cauca entre Río San Juan y Pto V...   | 17.0 |
| Directos Río Cauca entre Río San Juan y Pto Valdia | 12.0 |
| Directos al Bajo Magdalena entre Calamar y dese... | 6.0  |
| Directos al Bajo Magdalena entre El Plato y Cal... | 4.0  |
| Directos al Bajo Nechí (mi)                        | 1.0  |
| Directos al Cauca entre Pto Valdivia y Río Nechí   | 7.0  |
| Directos al Magdalena (Brazo Morales)              | 12.0 |
| Directos al Magdalena Medio entre ríos Negro       | 5.0  |
| Directos al Magdalena entre Ríos Seco y Negro (md) | 1.0  |
| Directos al Meta entre ríos Cusiana y Cravo Sur    | 1.0  |
| Directos al Río Meta entre ríos Cusiana y Carare   | 5.0  |

|  |      |
|--|------|
| Directos al Río Meta entre ríos Humea y Upia (mi)  | 3.0  |
| Directos al Río Meta entre ríos Pauto y Carare     | 2.0  |
| Juncal y otros Rios directos al Magdalena          | 8.0  |
| Lago de Tota                                       | 3.0  |
| Medio Cesar  | 33.0 |
| Medio Guaviare                                     | 7.0  |
| Medio Saldaña                                      | NaN  |
| Medio Sinú   | 16.0 |
| Providencia  | 2.0  |
| Quebrada El Carmen y Otros Directos al Magdalena   | 9.0  |
| R._Inírida_(mi),_hasta_bocas_Caño_Bocón,_y_R._L... | NaN  |
| Río Banadia y otros Directos al Río Arauca         | 12.0 |
| Río Canalete y otros Arroyos Directos al Caribe    | NaN  |
| Río Fortalecillas y otros                          | 26.0 |
| Río Guachaca - Mendiguaca y Buritaca               | 4.0  |
| Río Metica (Guamal - Humadea)                      | 9.0  |
| Río Neiva  | 8.0  |
| Río Salado y otros directos Cauca                  | 2.0  |
| Río Tapias y otros directos al Cauca               | 7.0  |
| Ríos Arroyohondo - Yumbo - Mulalo - Vijes - Yotoco | NaN  |
| Ríos Las Cañas - Los Micos y Obando                | NaN  |
| Ríos Pescador - RUT - Chanco - Catarina y Cañav... | 21.0 |
| Río San Bartolo y otros directos al Magdalena M... | 8.0  |
| Roncador y Quitasueño                              | 1.0  |
| Río Piedras - Río Manzanares                       | 12.0 |
| Río Aipe, Río Chenche y otros directos al Magda... | 4.0  |
| Río Algodonal (Alto Catatumbo)                     | 33.0 |
| Río Amoyá  | 3.0  |
| Río Anchicayá                                      | NaN  |
| Río Ancho y Otros Directos al caribe               | 5.0  |
| Río Andágueda                                      | NaN  |
| Río Ariari   | 19.0 |
| Río Ariguaní                                       | 21.0 |
| Río Ariporo  | NaN  |
| Río Arma   | 2.0  |
| Río Atá  | 1.0  |
| Río Baché  | 10.0 |
| Río Baudó  | 1.0  |
| Río Bebamamá y otros Directos Atrato (md)          | NaN  |
| Río Bogotá   | 58.0 |
| Río Bojabá   | 1.0  |
| Río Bojayá   | 1.0  |
| Río Bugalagrande                                   | NaN  |
| Río Cabi y otros Directos Atrato (md)              | 1.0  |
| Río Cabrera  | 8.0  |
| Río Caguan Alto                                    | NaN  |
| Río Caguan Bajo                                    | 1.0  |
| Río Cajón  | NaN  |
| Río Camarones y otros directos Caribe              | 2.0  |
| Río Capoma y otros directos al San Juan            | 1.0  |
| Río Caqueta Bajo                                   | 7.0  |
| Río Caqueta Medio                                  | 2.0  |
| Río Carare (Minero)                                | 13.0 |
| Río Carraipia - Paraguachon, Directos al Golfo...  | 16.0 |
| Río Cará-Paraná                                    | 1.0  |

|   |      |
|---|------|
| Río Casanare                                | 4.0  |
| Río Chicamocha                              | 44.0 |
| Río Chinchiná                               | 6.0  |
| Río Chítaga                                 | 6.0  |
| Río Cimitarra y otros directos al Magdalena | 13.0 |
| Río Cobugón - Río Cobaría                   | 2.0  |
| Río Coello                                  | 22.0 |
| Río Cotuhe                                  | NaN  |
| Río Cravo Norte                             | NaN  |
| Río Cravo Sur                               | 3.0  |
| Río Cusiana                                 | 7.0  |
| Río Cuñare                                  | NaN  |
| Río Desbaratado                             | 1.0  |
| Río Docampadó y Directos Pacífico           | 3.0  |
| Río Don Diego                               | 1.0  |
| Río Fonce                                   | 8.0  |
| Río Frío                                    | 1.0  |
| Río Frío y Otros Directos al Cauca          | 11.0 |
| Río Garagoa                                 | 23.0 |
| Río Guacavía                                | NaN  |
| Río Guachal (Bolo - Fraile y Párraga)       | 5.0  |
| Río Guachicono                              | 4.0  |
| Río Gualí                                   | 9.0  |
| Río Guape                                   | NaN  |
| Río Guapi                                   | 2.0  |
| Río Guarínó                                 | 1.0  |
| Río Guatiquía                               | 8.0  |
| Río Guavio                                  | 12.0 |
| Río Guayabero                               | 2.0  |
| Río Guayas                                  | 5.0  |
| Río Guayuriba                               | 11.0 |
| Río Guejar                                  | NaN  |
| Río Guáitara                                | 5.0  |
| Río Humea                                   | 5.0  |
| Río Igará-Paraná                            | NaN  |
| Río Inírida Alto                            | NaN  |
| Río Juananbú                                | 7.0  |
| Río La Miel (Samaná)                        | 3.0  |
| Río La Vieja                                | 7.0  |
| Río Lagunilla y Otros Directos al Magdalena | 32.0 |
| Río Lebrija y otros directos al Magdalena   | 86.0 |
| Río Lengupá                                 | 6.0  |
| Río León                                    | 18.0 |
| Río Luisa y otros directos al Magdalena     | 6.0  |
| Río Manacacias                              | 4.0  |
| Río Margua                                  | NaN  |
| Río Mayo                                    | 3.0  |
| Río Melúa                                   | 1.0  |
| Río Mesay                                   | 1.0  |
| Río Mira                                    | 4.0  |
| Río Muco                                    | NaN  |
| Río Mulatos y otros directos al Caribe      | 7.0  |
| Río Murindó - Directos al Atrato            | 3.0  |
| Río Murri                                   | 4.0  |
| Río Napipí - Río Opogadó                    | NaN  |

|  |      |
|--|------|
| Río Nare   | 20.0 |
| Río Naya - Yurumanguí                              | NaN  |
| Río Negro  | 12.0 |
| Río Nuevo Presidente - Tres Bocas (Sardinata, T... | 9.0  |
| Río Opía   | NaN  |
| Río Opón   | 6.0  |
| Río Orteguzaza                                     | 8.0  |
| Río Otún y otros directos al Cauca                 | 27.0 |
| Río Ovejas   | 1.0  |
| Río Paila  | NaN  |
| Río Palacé   | 3.0  |
| Río Palo   | 10.0 |
| Río Pamplonita                                     | 11.0 |
| Río Patia Alto                                     | 9.0  |
| Río Patia Bajo                                     | NaN  |
| Río Patia Medio                                    | 3.0  |
| Río Pauto  | 1.0  |
| Río Pescado  | 2.0  |
| Río Piendamo                                       | 4.0  |
| Río Porce  | 13.0 |
| Río Prado  | 6.0  |
| Río Putumayo Bajo                                  | 3.0  |
| Río Putumayo Directos (mi)                         | 2.0  |
| Río Putumayo Medio                                 | 4.0  |
| Río Páez   | 16.0 |
| Río Querary  | NaN  |
| Río Quinamayo y otros directos al Cauca            | 2.0  |
| Río Quito  | 1.0  |
| Río Ranchería                                      | 36.0 |
| Río Risaralda                                      | 7.0  |
| Río Rosario  | 3.0  |
| Río Saija  | 1.0  |
| Río Salaquí y otros directos Bajo Atrato           | 5.0  |
| Río San Juan                                       | 8.0  |
| Río San Juan (Frontera Ecuador)                    | NaN  |
| Río San Juan Alto                                  | 1.0  |
| Río San Juan Medio                                 | 1.0  |
| Río San Juan del Micay                             | 7.0  |
| Río San_Miguel                                     | NaN  |
| Río Seco y otros Directos al Magdalena             | 1.0  |
| Río Sipí   | 2.0  |
| Río Socuavo del Norte y Río Socuavo Sur            | NaN  |
| Río Sogamoso                                       | 13.0 |
| Río Suaza  | 5.0  |
| Río Sucio  | 9.0  |
| Río Sumapaz  | 12.0 |
| Río Suárez   | 45.0 |
| Río Tamaná y otros Directos San Juan               | 4.0  |
| Río Tanela y otros Directos al Caribe              | 3.0  |
| Río Tapaje   | NaN  |
| Río Tapias   | 4.0  |
| Río Taraza - Río Man                               | 7.0  |
| Río Tarra  | 5.0  |
| Río Telembí  | NaN  |
| Río Tetuán, Río Ortega                             | 1.0  |

|  |      |
|--|------|
| Río Timaná y otros directos al Magdalena | 4.0  |
| Río Timba                                | 1.0  |
| Río Timbiquí                             | NaN  |
| Río Tolo y otros Directos al Caribe      | 1.0  |
| Río Totare                               | 10.0 |
| Río Tuparro                              | 2.0  |
| Río Túa y otros directos al Meta         | 2.0  |
| Río Upía                                 | 4.0  |
| Río Vita                                 | 1.0  |
| Río Yaguará y Río Iquira                 | 12.0 |
| Río Yucao                                | NaN  |
| Río Zulia                                | 51.0 |
| Río del Suroeste y directos Río de Oro   | 1.0  |
| Ríos Amaime y Cerrito                    | 2.0  |
| Ríos Cajambre - Mayorquín - Raposo       | NaN  |
| Ríos Cali                                | 1.0  |
| Ríos Calima y Bajo San Juan              | 1.0  |
| Ríos Chemicuica y Corozal                | 1.0  |
| Ríos Claro y Jamundí                     | 3.0  |
| Ríos Directos al Magdalena (mi)          | 5.0  |
| Ríos Guabas,Sabaletas y Sonso            | 1.0  |
| Ríos Guadalajara y San Pedro             | 2.0  |
| Ríos Lili, Melendez y Canaveralajejo     | 1.0  |
| Ríos Tulua y Morales                     | 4.0  |
| Ríos directos Magdalena (md)             | 5.0  |
| Río Cucuana                              | 6.0  |
| San Andres                               | 4.0  |

| ESTADO            | Activa | En Mantenimiento | Suspendida |
|-------------------|--------|------------------|------------|
| FECHA_INSTALACION |        |                  |            |
| 1900.0            | 1.0    | NaN              | NaN        |
| 1915.0            | 1.0    | NaN              | NaN        |
| 1922.0            | NaN    | NaN              | 3.0        |
| 1924.0            | 1.0    | NaN              | NaN        |
| 1928.0            | NaN    | NaN              | 1.0        |
| 1929.0            | NaN    | NaN              | 1.0        |
| 1930.0            | 2.0    | NaN              | NaN        |
| 1931.0            | 3.0    | NaN              | 7.0        |
| 1932.0            | NaN    | NaN              | 6.0        |
| 1933.0            | NaN    | NaN              | 1.0        |
| 1934.0            | 3.0    | NaN              | 4.0        |
| 1936.0            | 3.0    | NaN              | NaN        |
| 1937.0            | 2.0    | NaN              | 2.0        |
| 1939.0            | NaN    | NaN              | 1.0        |
| 1940.0            | 5.0    | NaN              | 2.0        |
| 1941.0            | 3.0    | NaN              | 1.0        |
| 1942.0            | 1.0    | NaN              | 1.0        |
| 1943.0            | 1.0    | NaN              | NaN        |
| 1944.0            | 1.0    | NaN              | 2.0        |
| 1945.0            | 4.0    | NaN              | 1.0        |
| 1946.0            | 9.0    | NaN              | 5.0        |
| 1947.0            | 3.0    | NaN              | NaN        |
| 1948.0            | NaN    | 1.0              | 4.0        |
| 1949.0            | NaN    | NaN              | 1.0        |



|        |       |     |       |
|--------|-------|-----|-------|
| 1950.0 | 2.0   | NaN | NaN   |
| 1951.0 | 5.0   | NaN | NaN   |
| 1952.0 | 5.0   | NaN | 3.0   |
| 1953.0 | 7.0   | NaN | 4.0   |
| 1954.0 | 6.0   | NaN | 3.0   |
| 1955.0 | 9.0   | NaN | 4.0   |
| 1956.0 | 6.0   | NaN | 6.0   |
| 1957.0 | 12.0  | NaN | 10.0  |
| 1958.0 | 67.0  | NaN | 50.0  |
| 1959.0 | 31.0  | NaN | 33.0  |
| 1960.0 | 19.0  | NaN | 20.0  |
| 1961.0 | 12.0  | NaN | 14.0  |
| 1962.0 | 22.0  | NaN | 21.0  |
| 1963.0 | 60.0  | NaN | 46.0  |
| 1964.0 | 40.0  | NaN | 32.0  |
| 1965.0 | 36.0  | NaN | 45.0  |
| 1966.0 | 38.0  | NaN | 39.0  |
| 1967.0 | 43.0  | NaN | 51.0  |
| 1968.0 | 45.0  | NaN | 62.0  |
| 1969.0 | 33.0  | 1.0 | 38.0  |
| 1970.0 | 97.0  | NaN | 61.0  |
| 1971.0 | 145.0 | 1.0 | 104.0 |
| 1972.0 | 99.0  | NaN | 74.0  |
| 1973.0 | 147.0 | NaN | 66.0  |
| 1974.0 | 154.0 | NaN | 88.0  |
| 1975.0 | 76.0  | NaN | 34.0  |
| 1976.0 | 48.0  | NaN | 44.0  |
| 1977.0 | 50.0  | NaN | 36.0  |
| 1978.0 | 61.0  | NaN | 63.0  |
| 1979.0 | 68.0  | 1.0 | 95.0  |
| 1980.0 | 68.0  | 1.0 | 88.0  |
| 1981.0 | 32.0  | NaN | 43.0  |
| 1982.0 | 21.0  | NaN | 19.0  |
| 1983.0 | 108.0 | 1.0 | 66.0  |
| 1984.0 | 84.0  | 1.0 | 67.0  |
| 1985.0 | 34.0  | NaN | 37.0  |
| 1986.0 | 68.0  | 2.0 | 42.0  |
| 1987.0 | 28.0  | NaN | 32.0  |
| 1988.0 | 16.0  | 1.0 | 11.0  |
| 1989.0 | 19.0  | 1.0 | 20.0  |
| 1990.0 | 28.0  | 1.0 | 36.0  |
| 1991.0 | 15.0  | NaN | 11.0  |
| 1992.0 | 22.0  | NaN | 20.0  |
| 1993.0 | 18.0  | NaN | 12.0  |
| 1994.0 | 23.0  | NaN | 10.0  |
| 1995.0 | 17.0  | NaN | 6.0   |
| 1996.0 | 8.0   | NaN | 5.0   |
| 1997.0 | 14.0  | 1.0 | 16.0  |
| 1998.0 | 1.0   | NaN | 3.0   |
| 1999.0 | 10.0  | NaN | 7.0   |
| 2000.0 | 5.0   | NaN | 1.0   |
| 2001.0 | 6.0   | NaN | 8.0   |
| 2002.0 | 3.0   | NaN | 4.0   |
| 2003.0 | 5.0   | NaN | 2.0   |
| 2004.0 | 48.0  | 1.0 | 10.0  |

|        |      |     |      |
|--------|------|-----|------|
| 2005.0 | 76.0 | 2.0 | 21.0 |
| 2006.0 | 14.0 | NaN | 7.0  |
| 2007.0 | 24.0 | NaN | 5.0  |
| 2008.0 | 16.0 | NaN | 3.0  |
| 2009.0 | 7.0  | NaN | 5.0  |
| 2010.0 | 12.0 | NaN | 2.0  |
| 2011.0 | 7.0  | NaN | 2.0  |
| 2012.0 | 6.0  | NaN | NaN  |
| 2013.0 | 11.0 | NaN | 1.0  |
| 2014.0 | 37.0 | NaN | 8.0  |
| 2015.0 | 13.0 | NaN | 6.0  |
| 2016.0 | 40.0 | NaN | 3.0  |
| 2017.0 | 98.0 | NaN | 2.0  |
| 2018.0 | 63.0 | NaN | 1.0  |
| 2019.0 | 23.0 | 1.0 | NaN  |
| 2020.0 | 3.0  | NaN | 1.0  |
| 2021.0 | 3.0  | NaN | NaN  |

-----  
 Geospatial array sample with 12 records  
 -----

|      | latitud  | longitud   | altitud |
|------|----------|------------|---------|
| 2635 | 3.574056 | -76.277806 | 1059    |
| 1091 | 5.097667 | -76.696500 | 62      |
| 2764 | 6.883056 | -75.332472 | 1650    |
| 963  | 6.677806 | -75.219806 | 1850    |
| 4046 | 7.486222 | -74.872389 | 50      |
| 251  | 4.161919 | -73.617578 | 422     |
| 1848 | 5.615500 | -72.976278 | 2470    |
| 1088 | 5.083333 | -73.416667 | 1507    |
| 2538 | 3.513472 | -76.314889 | 1018    |
| 2027 | 2.948750 | -75.293056 | 439     |
| 4397 | 9.720000 | -75.110000 | 152     |
| 4060 | 7.579056 | -75.347833 | 95      |

Dataframe type: <class 'pandas.core.frame.DataFrame'>

-----  
 Thermal level evaluation  
 -----

Thermal level reference array:

|   | Elevation ref value | Thermic level                   |
|---|---------------------|---------------------------------|
| 0 | 1000                | Cálido, 24°C+, <= 1000 meters   |
| 1 | 2000                | Templado, 18°C+, <= 2000 meters |
| 2 | 3000                | Frío, 12°C+, <= 3000 meters     |
| 3 | 4000                | Páramo, 0°C, <= 4000 meters     |
| 4 | 99999               | Glacial, 0°C-, > 4000 meters    |

Geospatial array sample with 12 records:

|      | nombre                       | latitud  | longitud   | altitud | \ |
|------|------------------------------|----------|------------|---------|---|
| 2635 | INGENIO MANUELITA [26075050] | 3.574056 | -76.277806 | 1059    |   |
| 1091 | ANDAGOYA [54020010]          | 5.097667 | -76.696500 | 62      |   |
| 2764 | ANGOSTURA [27020040]         | 6.883056 | -75.332472 | 1650    |   |

|      |                                    |          |            |      |
|------|------------------------------------|----------|------------|------|
| 963  | GOMEZ PLATA [27010160]             | 6.677806 | -75.219806 | 1850 |
| 4046 | ZARAGOZA [27030030]                | 7.486222 | -74.872389 | 50   |
| 251  | AEROPUERTO VANGUARDIA [35035020]   | 4.161919 | -73.617578 | 422  |
| 1848 | IZA [24031030]                     | 5.615500 | -72.976278 | 2470 |
| 1088 | TENZA [35070290]                   | 5.083333 | -73.416667 | 1507 |
| 2538 | PALMIRA ICA [26075010]             | 3.513472 | -76.314889 | 1018 |
| 2027 | AEROPUERTO BENITO SALAS [21115020] | 2.948750 | -75.293056 | 439  |
| 4397 | CARMEN DE BOLIVAR [29015020]       | 9.720000 | -75.110000 | 152  |
| 4060 | CACERES [26250010]                 | 7.579056 | -75.347833 | 95   |

ThermalLevelValue

|      |                                 |
|------|---------------------------------|
| 2635 | Templado, 18°C+, <= 2000 meters |
| 1091 | Cálido, 24°C+, <= 1000 meters   |
| 2764 | Templado, 18°C+, <= 2000 meters |
| 963  | Templado, 18°C+, <= 2000 meters |
| 4046 | Cálido, 24°C+, <= 1000 meters   |
| 251  | Cálido, 24°C+, <= 1000 meters   |
| 1848 | Frío, 12°C+, <= 3000 meters     |
| 1088 | Templado, 18°C+, <= 2000 meters |
| 2538 | Templado, 18°C+, <= 2000 meters |
| 2027 | Cálido, 24°C+, <= 1000 meters   |
| 4397 | Cálido, 24°C+, <= 1000 meters   |
| 4060 | Cálido, 24°C+, <= 1000 meters   |

Thermal level statistics:

Count:

|                                 |      |
|---------------------------------|------|
| Cálido, 24°C+, <= 1000 meters   | 2924 |
| Templado, 18°C+, <= 2000 meters | 816  |
| Frío, 12°C+, <= 3000 meters     | 603  |
| Páramo, 0°C, <= 4000 meters     | 121  |
| Glacial, 0°C-, > 4000 meters    | 28   |

Name: ThermalLevelValue, dtype: int64

Normalize percentage rate:

|                                 |        |
|---------------------------------|--------|
| Cálido, 24°C+, <= 1000 meters   | 0.6509 |
| Templado, 18°C+, <= 2000 meters | 0.1817 |
| Frío, 12°C+, <= 3000 meters     | 0.1342 |
| Páramo, 0°C, <= 4000 meters     | 0.0269 |
| Glacial, 0°C-, > 4000 meters    | 0.0062 |

Name: ThermalLevelValue, dtype: float64

| ESTADO                          | Activa | En Mantenimiento | Suspendida |
|---------------------------------|--------|------------------|------------|
| ThermalLevelValue               |        |                  |            |
| Cálido, 24°C+, <= 1000 meters   | 1597.0 | 11.0             | 1316.0     |
| Frío, 12°C+, <= 3000 meters     | 403.0  | 3.0              | 197.0      |
| Glacial, 0°C-, > 4000 meters    | 17.0   | NaN              | 11.0       |
| Páramo, 0°C, <= 4000 meters     | 85.0   | NaN              | 36.0       |
| Templado, 18°C+, <= 2000 meters | 541.0  | 3.0              | 272.0      |

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Stations in ./Data/CNE\_IDEAM\_20211213.xls  
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Index: Int64Index([2635, 1091, 2764, 963, 4046, 251, 1848, 1088, 2538, 2027,

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...
283, 4472, 1102, 4470, 4477, 4475, 3813, 196, 3774, 3794],
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| 2635 |  | INGENIO MANUELITA [26075050]       | 3.574056  | -76.277806 |
| 1091 |  | ANDAGOYA [54020010]                | 5.097667  | -76.696500 |
| 2764 |  | ANGOSTURA [27020040]               | 6.883056  | -75.332472 |
| 963  |  | GOMEZ PLATA [27010160]             | 6.677806  | -75.219806 |
| 4046 |  | ZARAGOZA [27030030]                | 7.486222  | -74.872389 |
| 251  |  | AEROPUERTO VANGUARDIA [35035020]   | 4.161919  | -73.617578 |
| 1848 |  | IZA [24031030]                     | 5.615500  | -72.976278 |
| 1088 |  | TENZA [35070290]                   | 5.083333  | -73.416667 |
| 2538 |  | PALMIRA ICA [26075010]             | 3.513472  | -76.314889 |
| 2027 |  | AEROPUERTO BENITO SALAS [21115020] | 2.948750  | -75.293056 |
| 4397 |  | CARMEN DE BOLIVAR [29015020]       | 9.720000  | -75.110000 |
| 4060 |  | CACERES [26250010]                 | 7.579056  | -75.347833 |
| 4029 |  | AEROPUERTO GONZALO [12025010]      | 8.116667  | -76.733333 |
| 1245 |  | BAJO CALIMA [54075020]             | 3.953556  | -76.990444 |
| 913  |  | PUERTO BERRIO [23090080]           | 6.500000  | -74.400000 |
| 254  |  | AEROPUERTO YARIGUIES [23155030]    | 7.026389  | -73.808611 |
| 2643 |  | RIOHACHA [15070250]                | 11.533333 | -72.900000 |
| 3658 |  | PITALITO [21015010]                | 1.866667  | -76.016667 |
| 3460 |  | SABANALARGA [29045030]             | 10.636722 | -74.918889 |
| 4071 |  | SAN MARCOS [25020060]              | 8.633333  | -75.133333 |
| 2640 |  | CHIRIGUANA [25025050]              | 9.361028  | -73.593389 |
| 3034 |  | AEROPUERTO LA FLORIDA [25025040]   | 8.700000  | -75.183333 |
| 1498 |  | RIOSUCIO [26175010]                | 5.433333  | -75.700000 |
| 1728 |  | OROCUE [35220020]                  | 4.793278  | -71.329111 |
| 2035 |  | SUAREZ [26055030]                  | 2.954556  | -76.696111 |
| 3737 |  | ALTAMIRA [21025010]                | 2.066667  | -75.800000 |
| 3211 |  | TEORAMA [16050250]                 | 8.442222  | -73.285278 |
| 336  |  | ARRANCAPLUMAS - AUT [21237020]     | 5.202417  | -74.727611 |
| 664  |  | LORICA [13080040]                  | 9.250000  | -75.833333 |
| 876  |  | COCUY EL [24031010]                | 6.408222  | -72.445444 |
| 197  |  | EL BANCO - AUT [25027020]          | 8.992528  | -73.969444 |
| 4464 |  | GAMARRA [23217010]                 | 8.320000  | -73.740000 |
| 3408 |  | PUERTO WILCHES [23187010]          | 7.344389  | -73.905056 |
| 2887 |  | ALTO VIENTO [16010050]             | 8.166667  | -72.483333 |
| 163  |  | PUERTO BERRIO - AUT [23097030]     | 6.485139  | -74.401167 |
| 139  |  | PUERTO SALGAR - AUT [23037010]     | 5.469667  | -74.662167 |
| 337  |  | BARRANCABERMEJA - AUT [23157030]   | 7.060194  | -73.876000 |
| 780  |  | CENTRO EL [23155040]               | 6.859556  | -73.765083 |
| 3798 |  | ALVARADO [21245030]                | 4.567889  | -74.951306 |
| 2570 |  | MAICAO [15080150]                  | 11.383333 | -72.250000 |
| 2651 |  | PUERTO LOPEZ [15080090]            | 11.934278 | -71.282500 |
| 366  |  | GUAYATA [35070400]                 | 4.966667  | -73.483333 |
| 3525 |  | TIBU [16035010]                    | 8.638333  | -72.726667 |
| 2647 |  | MANAURE [15075030]                 | 11.781056 | -72.463500 |
| 2848 |  | AEROPUERTO OTU [23175020]          | 7.011750  | -74.716306 |
| 2621 |  | AEROPUERTO RAFAEL BARVO [25025080] | 9.333889  | -75.283056 |
| 3381 |  | AEROPUERTO GOMEZ NINO [23195030]   | 7.133333  | -73.133333 |
| 2379 |  | CALIPUERTO [26075020]              | 3.433333  | -76.400000 |
| 3253 |  | CALAMAR [29037020]                 | 10.253861 | -74.911694 |
| 256  |  | AEROPUERTO CAMILO DAZA [16015010]  | 7.930278  | -72.509167 |
| 2245 |  | OBS MET NACIONAL [21205230]        | 4.633333  | -74.100000 |

|      |                                      |           |            |
|------|--------------------------------------|-----------|------------|
| 90   | BUENAVENTURA IDEAM - AUT [53119010]  | 3.890175  | -77.061908 |
| 2084 | AEROPUERTO G L VALENCIA [26035030]   | 2.452889  | -76.608750 |
| 1555 | ISLA DEL SANTUARIO [24015120]        | 5.467278  | -73.734806 |
| 4111 | PASANTO [5204011]                    | 1.216667  | -77.266667 |
| 4135 | VUELTA LA [11010010]                 | 5.458944  | -76.544722 |
| 4066 | AEROPUERTO BERAESTEGUI [13075040]    | 8.883333  | -75.666667 |
| 2359 | SURBATA BONZA [24035120]             | 5.802444  | -73.074472 |
| 2852 | DABEIBA [11110060]                   | 7.000000  | -76.266667 |
| 96   | CARTAGO [26127040]                   | 4.757611  | -75.899250 |
| 2394 | PASO EL [21215050]                   | 4.500000  | -75.566667 |
| 3363 | MATEGUADUA [26107130]                | 4.015222  | -76.157972 |
| 1733 | BOCAT RIO PALO [26047020]            | 3.061972  | -76.348778 |
| 457  | GALERAZAMBA - AUT [14015010]         | 10.794167 | -75.260556 |
| 2954 | VILLA ARTEAGA [12010150]             | 7.450000  | -76.616667 |
| 3773 | AEROPUERTO BUENAVENTUR [53115010]    | 3.820111  | -76.992389 |
| 1460 | POTRERITO [26057030]                 | 3.185361  | -76.569306 |
| 3439 | INMACULADA LA [26110150]             | 4.793833  | -75.986500 |
| 2222 | VIJES [26080070]                     | 3.698528  | -76.429722 |
| 1462 | MIRANDA 1 [26040040]                 | 3.266667  | -76.266667 |
| 1960 | BOCATOMA [26117010]                  | 4.350000  | -76.200000 |
| 2066 | SAN ANTONIO [26050050]               | 3.233333  | -76.666667 |
| 2289 | TIMBA [26057040]                     | 3.117111  | -76.624028 |
| 117  | LA VIRGINIA - AUT [26177030]         | 4.892500  | -75.882694 |
| 3976 | SALVAJINA LA [26027050]              | 2.950000  | -76.700000 |
| 1303 | SILVIA PTA ELECTRI [26020020]        | 2.624667  | -76.349139 |
| 2207 | COCONUCO [26010020]                  | 2.343361  | -76.495500 |
| 1309 | PIENDAMO [26020030]                  | 2.642694  | -76.536111 |
| 4125 | AEROPUERTO EL CARANO [11045010]      | 5.690556  | -76.643778 |
| 2859 | ESCUELA NAVAL CIOH [14015030]        | 10.447222 | -75.516111 |
| 259  | AEROPUERTO MATECANA [26135040]       | 4.815861  | -75.737222 |
| 4115 | AEROPUERTO MITU [42065010]           | 1.266667  | -70.233333 |
| 249  | AEROPUERTO LA FLORIDA [51035010]     | 1.800000  | -78.766667 |
| 1431 | AEROPUERTO FARFAN [26105160]         | 4.090083  | -76.223583 |
| 3973 | RAQUIRA [24010040]                   | 5.538778  | -73.631361 |
| 3523 | CARTAGENA [14019010]                 | 10.387208 | -75.529897 |
| 1083 | AEROPUERTO SANTAGUEDA [26155120]     | 5.083333  | -75.683333 |
| 3100 | AEROPUERTO SANTIAGO PÉREZ [37055010] | 7.069444  | -70.738056 |
| 839  | TULIO OSPINA [27015090]              | 6.319694  | -75.553250 |
| 2102 | PANTANO REDONDO 1 [21201060]         | 5.043250  | -74.033389 |
| 1512 | DOS AGUAS LAS [21170020]             | 4.258278  | -74.783611 |
| 1514 | AEROPUERTO SANTIAGO VILA [21185040]  | 4.275444  | -74.798000 |
| 1511 | MONTERREDONDO [35020010]             | 4.254444  | -73.823333 |
| 10   | TUMACO - AUT [51039010]              | 1.819306  | -78.730278 |
| 2009 | VIRGINIA LA [26140330]               | 4.900000  | -75.883333 |
| 2211 | SUAREZ [26050060]                    | 2.954556  | -76.696111 |
| 3171 | RISARALDA [16025020]                 | 8.233333  | -72.533333 |
| 2115 | ROSAS [52010040]                     | 2.262389  | -76.737750 |
| 3851 | AEROPUERTO LAS FLORES [25025090]     | 9.046333  | -73.970833 |
| 387  | COLORADOS - AUT [23067020]           | 5.469500  | -74.593389 |
| 3996 | BODEGA CEDELCA [26020050]            | 2.483333  | -76.583333 |
| 659  | AEROPUERTO SIMON BOLIVAR [15015050]  | 11.128333 | -74.228889 |
| 98   | EL ALAMBRADO [26127010]              | 4.410250  | -75.875389 |
| 438  | DONJUANA LA 1 [16010080]             | 7.700000  | -72.600000 |
| 1115 | TAMBO [26030050]                     | 2.455972  | -76.811111 |
| 2335 | CABUYAL [26060020]                   | 3.320222  | -76.346611 |

|      |                                  |            |           |            |
|------|----------------------------------|------------|-----------|------------|
| 3956 | PENON EL                         | [26070090] | 3.316667  | -76.233333 |
| 3599 | OBONUCO                          | [52045010] | 1.198222  | -77.303083 |
| 2506 | FLORIDA                          | [26070760] | 3.327778  | -76.239139 |
| 647  | PALMA CENTRAL                    | [13077030] | 9.195611  | -75.818194 |
| 1825 | PUENTE CARRETERA                 | [26027030] | 2.866667  | -76.533333 |
| 908  | CUCHARO EL                       | [24025020] | 6.532222  | -73.199167 |
| 1331 | GUAMO                            | [21185030] | 4.008833  | -74.981389 |
| 2608 | AEROPUERTO BARACOA               | [25025100] | 9.281944  | -74.845278 |
| 719  | COMODA LA                        | [24010110] | 6.076944  | -73.469167 |
| 1255 | TIBAITATA                        | [21205420] | 4.691417  | -74.209000 |
| 4300 | TIBAITATA                        | [21205420] | 4.690000  | -74.210000 |
| 3594 | CERETE                           | [13070380] | 8.885083  | -75.797417 |
| 3858 | EL PROFUNDO - AUT                | [21197010] | 4.011694  | -74.504444 |
| 831  | CHARALA                          | [24020030] | 6.274167  | -73.150556 |
| 738  | ENCINO                           | [24020040] | 6.138333  | -73.098056 |
| 2428 | GUANQUICA                        |            | 5.184278  | -73.941111 |
| 3310 | SAN GIL                          | [24027010] | 6.546667  | -73.128056 |
| 1847 | SANTA MARIA                      | [35077040] | 4.866667  | -73.266667 |
| 3189 | LABATECA                         | [37010010] | 7.298056  | -72.500556 |
| 416  | EL PALO - AUT                    | [24037030] | 5.681722  | -73.231139 |
| 3251 | SONSON                           | [26187030] | 5.695194  | -75.313778 |
| 494  | FONSECA                          | [15060190] | 10.900000 | -72.833333 |
| 1880 | PLAYA LA                         | [21190080] | 4.183333  | -74.500000 |
| 1923 | SIERRA LA                        | [21250070] | 4.800111  | -74.935694 |
| 885  | GUICAN                           | [24037040] | 6.453972  | -72.403056 |
| 2419 | CHINAVITA                        | [35070070] | 5.164861  | -73.364250 |
| 3284 | CUCUTILLA                        | [16020080] | 7.534167  | -72.772778 |
| 4002 | BALSAYACO-LA MARIA               | [47017080] | 1.116667  | -76.966667 |
| 2539 | CARLOSAMA                        | [52057040] | 0.844167  | -77.685889 |
| 527  | SALAZAR                          | [16020390] | 7.783333  | -72.800000 |
| 3048 | MONTERIA                         | [13075060] | 8.750000  | -75.883333 |
| 3247 | MOTILONIA CODAZZI                | [28025070] | 10.001806 | -73.249389 |
| 890  | SOCORRO                          | [24010780] | 6.433333  | -73.266667 |
| 767  | SAN ANDRES                       | [24030270] | 6.830000  | -72.844167 |
| 3665 | LA COCHA                         | [47017020] | 0.989722  | -77.157222 |
| 4090 | RICAU RTE                        | [51027010] | 1.166667  | -77.966667 |
| 1376 | VENTAQUEMADA                     | [35070020] | 5.383056  | -73.602889 |
| 2148 | PUENTE CASABIANCA                | [21167010] | 3.766667  | -74.916667 |
| 2331 | UMBITA                           | [35070050] | 5.219111  | -73.444556 |
| 2264 | CEDROS LOS                       | [35087040] | 5.016764  | -73.216792 |
| 1931 | BOCATOMA                         | [21257020] | 4.800000  | -74.983333 |
| 4188 | UNIVERSIDAD INDUSTRIAL SANTANDER | [23195040] | 7.144722  | -73.122222 |
| 1556 | AEROPUERTO PALANQUERO            | [23035020] | 5.471389  | -74.654722 |
| 3718 | IMUES                            | [52050090] | 1.055250  | -77.499556 |
| 3720 | TANGUA                           | [52050080] | 1.094167  | -77.391972 |
| 1962 | ORO PODRIDO                      | [35027020] | 4.350000  | -73.883333 |
| 1807 | SANTA MARIA                      | [35070180] | 4.860778  | -73.256750 |
| 1816 | PESCA                            | [24030120] | 5.523033  | -73.076848 |
| 1385 | RAMIRIQUI                        | [35070010] | 5.399528  | -73.332972 |
| 1199 | ZETAQUIRA                        | [35080010] | 5.282972  | -73.169278 |
| 1294 | RONDON                           | [35080040] | 5.350000  | -73.216667 |
| 1995 | TOCA                             | [24030130] | 5.566667  | -73.183333 |
| 368  | MACANAL                          | [35070120] | 4.966667  | -73.316667 |
| 1276 | TURMEQUE                         | [35070030] | 5.317750  | -73.496361 |
| 1049 | SOCOTA                           | [24030170] | 6.033333  | -72.633333 |

|      |                           |            |           |            |
|------|---------------------------|------------|-----------|------------|
| 4097 | SIBUNDOY                  | [47015030] | 1.183333  | -76.916667 |
| 344  | QUEBRADA HONDA            | [35070130] | 4.950250  | -73.307972 |
| 985  | TASCO                     | [24030160] | 5.860357  | -72.784791 |
| 1033 | PAZ DE RIO                | [24030150] | 5.983333  | -72.750000 |
| 827  | OIBA-PUENTE VARGAS        | [24017520] | 6.250000  | -73.333333 |
| 1206 | PAJARITO                  | [35190050] | 5.302944  | -72.701944 |
| 2926 | PALMAS LAS                | [23197170] | 7.216667  | -73.233333 |
| 250  | AEROPUERTO ANTONIO NARINO | [52045020] | 1.394083  | -77.290861 |
| 2340 | CUCUNUBA                  |            | 5.250000  | -73.770000 |
| 1545 | LIBANO                    | [21250500] | 4.921889  | -75.075861 |
| 3673 | SAMANIEGO                 | [52050030] | 1.341444  | -77.591417 |
| 3672 | SAMANIEGO                 | [52050020] | 1.341444  | -77.591417 |
| 1378 | GUACHETA                  | [24010170] | 5.385889  | -73.691056 |
| 3663 | CUMBAL                    | [52050110] | 0.908000  | -77.787111 |
| 2821 | SANTA HELENA              | [28040160] | 9.766667  | -73.966667 |
| 3724 | TUQUERRES                 | [52050070] | 1.100000  | -77.600000 |
| 3192 | LUMAR HACIENDA            | [28040040] | 9.950000  | -73.383333 |
| 2646 | URIBIA                    | [15075040] | 11.716667 | -72.266667 |
| 258  | AEROPUERTO SESQUICENTEN   | [17015010] | 12.542183 | -81.730969 |
| 2447 | SAJANDI                   | [52010080] | 2.187111  | -77.049722 |
| 2468 | HIDROMAYO CAMP            | [52030060] | 1.665639  | -77.014972 |
| 1854 | VILLA DE LEIVA            | [24010160] | 5.633333  | -73.533333 |
| 663  | LORICA                    | [13080020] | 9.250000  | -75.833333 |
| 1975 | RAQUIRA                   | [24010180] | 5.538778  | -73.631361 |
| 1785 | SIMIJACA                  | [24010150] | 5.511306  | -73.863694 |
| 3378 | CHITAGA                   | [37010020] | 7.139444  | -72.664722 |
| 768  | CERRITO                   | [24030210] | 6.836111  | -72.697222 |
| 3500 | CARACOLI 1                | [28030010] | 10.066667 | -73.750000 |
| 1494 | CANAL PRINCIPAL           | [21257030] | 4.783333  | -74.883333 |
| 946  | CURITI 1                  | [24020070] | 6.600000  | -73.066667 |
| 880  | SAN JOAQUIN               | [24030200] | 6.426417  | -72.873833 |
| 975  | MALAGA 1                  | [24030220] | 6.700000  | -72.733333 |
| 807  | SUSACON                   | [24030240] | 6.231750  | -72.689333 |
| 2795 | SARDINATA                 | [16030120] | 8.100000  | -72.800000 |
| 1625 | MONGUI                    | [24030190] | 5.724556  | -72.847861 |
| 1843 | IZA                       | [24030230] | 5.615500  | -72.976278 |
| 2669 | REPOSO EL                 | [28017050] | 10.527194 | -73.336361 |
| 3088 | MEDIA LUNA                | [29060050] | 10.510028 | -74.506667 |
| 3083 | FUNDACION                 | [29060040] | 10.524361 | -74.182222 |
| 871  | COCUY EL                  | [24030260] | 6.408222  | -72.445444 |
| 204  | CUESTECITAS - AUT         | [15067050] | 11.180333 | -72.553444 |
| 3452 | TREBOL EL                 | [29067010] | 10.635917 | -74.146333 |
| 726  | SUAITA                    | [24010760] | 6.099000  | -73.441389 |
| 997  | JESUS MARIA               | [24010210] | 5.873333  | -73.781667 |
| 616  | GRAMALOTE                 | [16020010] | 7.891944  | -72.799444 |
| 3459 | MANIZALES                 | [29067140] | 10.633333 | -74.150000 |
| 3081 | FUNDACION                 | [29067120] | 10.523250 | -74.182806 |
| 882  | VALLE DE SAN JOSE         | [24020080] | 6.441111  | -73.142778 |
| 2749 | SAN VICENTE               | [24050060] | 6.872778  | -73.410833 |
| 3582 | TONA - AUT                | [23190130] | 7.196111  | -72.970556 |
| 420  | ARBOLEDAS                 | [16020050] | 7.644444  | -72.799722 |
| 524  | ESCUELA AGROPECUARI       | [23190150] | 7.766667  | -73.083333 |
| 1146 | PURIFICACION              | [21130010] | 3.847333  | -74.936500 |
| 3983 | PST DE MONTA              | [21160020] | 3.783333  | -74.933333 |
| 2957 | PLAYON EL                 | [23190140] | 7.464722  | -73.201389 |

|      |                               |            |           |            |
|------|-------------------------------|------------|-----------|------------|
| 2417 | EDEN EL                       | [23010020] | 5.158389  | -75.048917 |
| 2398 | PASTALES                      | [21210030] | 4.511056  | -75.300833 |
| 3409 | PUERTO WILCHES                | [23180020] | 7.348611  | -73.893056 |
| 3416 | MATANZA                       | [23190120] | 7.366667  | -73.033333 |
| 3148 | CACOTA                        | [37010030] | 7.270000  | -72.643611 |
| 1782 | YACOPI                        | [23060090] | 5.500000  | -74.366667 |
| 1974 | MUZO                          | [23120050] | 5.534806  | -74.101222 |
| 904  | MOGOTES                       | [24020050] | 6.470000  | -72.968889 |
| 3882 | SAN JAVIER/PUENTE ZULIA - AUT | [16027120] | 7.833889  | -72.650278 |
| 3351 | VETAS                         | [23190160] | 7.316667  | -72.866667 |
| 847  | BOAVITA                       | [24030280] | 6.333333  | -72.600000 |
| 3056 | REPELON                       | [29037060] | 10.490000 | -75.126944 |
| 901  | MACARAVITA                    | [24030290] | 6.493944  | -72.581361 |
| 3636 | NARINO                        | [52040070] | 1.282778  | -77.355000 |
| 3349 | MUTISCUA-LA CALDER            | [16020090] | 7.300000  | -72.750000 |
| 3684 | CHACHAGUI                     | [52040030] | 1.366667  | -77.283333 |
| 1846 | COMBITA                       | [24030310] | 5.628917  | -73.324000 |
| 944  | CARCASI                       | [24030320] | 6.627500  | -72.630000 |
| 878  | PARAMO                        | [24020090] | 6.416667  | -73.166667 |
| 858  | CHIMA                         | [24010220] | 6.355000  | -73.368333 |
| 906  | PUERTO BERRIO                 | [23090040] | 6.500000  | -74.400000 |
| 3527 | SAN ESTANISLAO                | [29030050] | 10.404111 | -75.161833 |
| 850  | CONFINES                      | [24010230] | 6.355278  | -73.239722 |
| 979  | CEPITA                        | [24030300] | 6.753056  | -72.975000 |
| 1999 | SANTA MARIA                   | [21120020] | 2.937500  | -75.586667 |
| 1403 | CAMPOALEGRE                   | [21100010] | 2.683333  | -75.333333 |
| 3070 | CALAMAR                       | [29030030] | 10.233333 | -74.916667 |
| 3682 | BUESACO                       | [52040040] | 1.404167  | -77.149722 |
| 2561 | DIBULLA                       | [15030010] | 11.275222 | -73.312194 |
| 2863 | MANATI                        | [29030020] | 10.450000 | -74.966667 |
| 1420 | CUNDAY                        | [21160030] | 4.066389  | -74.687611 |
| 1275 | TIBANA                        | [35070040] | 5.315278  | -73.395944 |
| 3061 | TABLAZO EL                    | [24067010] | 7.038889  | -73.340833 |
| 2626 | SINCELEJO                     | [25020130] | 9.308167  | -75.406833 |
| 4329 | SAHAGUN - AUT                 | [25020140] | 8.949997  | -75.450000 |
| 2762 | TOPE EL                       | [24030330] | 6.939722  | -72.931667 |
| 3322 | CAMPO HERMOSO                 | [37020030] | 7.098889  | -72.300278 |
| 1327 | CABRERA                       | [21190090] | 3.986972  | -74.483556 |
| 2917 | SILOS                         | [37010070] | 7.207500  | -72.753333 |
| 658  | ESPERANZA LA                  | [25021340] | 9.249167  | -74.736111 |
| 3252 | ARJONA                        | [29030040] | 10.250278 | -75.354444 |
| 2717 | TOLU                          | [13090070] | 9.519167  | -75.591111 |
| 564  | CHIMA                         | [13070300] | 9.150000  | -75.616667 |
| 957  | MOLAGAVITA                    | [24030340] | 6.671667  | -72.811389 |
| 1263 | SANTA ISABEL                  | [21240040] | 4.700000  | -75.100000 |
| 376  | PINON EL                      | [11020050] | 5.757667  | -76.250861 |
| 1647 | RIOFRIO                       | [26087030] | 4.133333  | -76.266667 |
| 2045 | ROVIRA 1                      | [21180180] | 4.233333  | -75.250000 |
| 1010 | CARMEN DE ATRATO              | [11020010] | 5.908528  | -76.142083 |
| 2803 | ZAMBRANO                      | [29010050] | 9.699444  | -74.815556 |
| 1372 | PAIME                         | [23120240] | 5.371389  | -74.154639 |
| 1315 | YAGUARA                       | [21080030] | 2.669611  | -75.528861 |
| 1901 | BARAYA                        | [21110070] | 3.150333  | -75.057333 |
| 3659 | PITALITO                      | [21010030] | 1.866667  | -76.016667 |
| 1313 | BELALCAZAR                    | [21050070] | 2.657000  | -75.974972 |



|      |                         |            |           |            |
|------|-------------------------|------------|-----------|------------|
| 821  | OIBA                    | [24010240] | 6.262500  | -73.303333 |
| 1111 | GIGANTE 1               | [21060030] | 2.400000  | -75.550000 |
| 1694 | VENADO EL               | [21140010] | 3.291583  | -74.903972 |
| 2473 | PLANTAS FLORENCIA       | [44030010] | 1.633333  | -75.616667 |
| 3986 | SANTA LETICIA           | [21050270] | 2.350000  | -76.233333 |
| 3954 | HATO VIEJO              | [22077020] | 4.150000  | -75.266667 |
| 1211 | ALGECIRAS-HACIENDA SATI | [21100020] | 2.550000  | -75.316667 |
| 3710 | RESINA                  | [21030030] | 1.916667  | -75.700000 |
| 320  | LA PLAYA - AUT          | [21197030] | 4.192250  | -74.500722 |
| 3739 | ALTAMIRA                | [21020020] | 2.066667  | -75.800000 |
| 2362 | TESALIA 1               | [21050100] | 2.483333  | -75.716667 |
| 2294 | AGRADO                  | [21040010] | 2.250000  | -75.766667 |
| 2199 | PITA LA                 | [21060040] | 2.202028  | -75.548583 |
| 4117 | ACEVEDO ICEL            | [21030040] | 1.833333  | -75.866667 |
| 2196 | ARGENTINA LA            | [21050060] | 2.199056  | -75.972278 |
| 2368 | DUITAMA                 | [24030350] | 5.830083  | -73.044611 |
| 3042 | CANALETE                | [12040020] | 8.786944  | -76.235556 |
| 4100 | MOCOA                   | [44010010] | 1.183333  | -76.666667 |
| 3213 | TRES PIEDRAS            | [13050040] | 8.450000  | -75.966667 |
| 1266 | ELDORADO DIDACTICA      | [21205520] | 4.700000  | -74.150000 |
| 357  | ALMEIDA                 | [35070260] | 4.970833  | -73.379861 |
| 2454 | UNION LA                | [52030030] | 1.583056  | -77.132667 |
| 3473 | CENIZO EL               | [29067020] | 10.683333 | -74.033333 |
| 3228 | MAJAGUAL                | [25020340] | 8.533333  | -74.650000 |
| 2297 | DOLORES                 | [21150010] | 3.533333  | -74.883333 |
| 2586 | CAUCASIA                | [25021390] | 8.000000  | -75.200000 |
| 932  | CHISCAS                 | [24030360] | 6.533333  | -72.500000 |
| 1020 | GAMBITA                 | [24010250] | 5.950000  | -73.333333 |
| 2218 | PINALITO HACIENDA       | [21160050] | 3.671722  | -74.842972 |
| 2132 | ACO                     | [21160040] | 3.746250  | -74.810944 |
| 2892 | TIERRALTA               | [13030010] | 8.186667  | -76.053056 |
| 2146 | BOQUERON                | [21167020] | 3.750000  | -74.900000 |
| 2080 | POTOSI                  | [21110090] | 3.387139  | -75.169250 |
| 418  | JUAN DE ACOSTA          | [29040400] | 10.833333 | -75.033333 |
| 402  | POLONUEVO               | [29040080] | 10.779000 | -74.857917 |
| 2450 | BALSAYACO               | [47010020] | 1.117889  | -76.981278 |
| 3465 | CENIZO EL               | [29060060] | 10.651611 | -74.073222 |
| 3462 | PONEDERA                | [29040070] | 10.641778 | -74.770722 |
| 1688 | PINON EL                | [11027060] | 5.733333  | -76.366667 |
| 1287 | CAPARRAPI               | [23060110] | 5.352194  | -74.494778 |
| 2975 | SANTA TERESA HACIENDA   | [28020440] | 9.917028  | -73.286139 |
| 3469 | ATANQUEZ                | [28010360] | 10.697333 | -73.353056 |
| 691  | CUESTECITA              | [15060020] | 11.197389 | -72.611806 |
| 3201 | PLANETA RICA            | [25021550] | 8.416667  | -75.566667 |
| 2814 | SAN ONOFRE              | [13090020] | 9.754167  | -75.538056 |
| 3242 | MARIA LA BAJA           | [29030060] | 9.983333  | -75.300000 |
| 3519 | SAN MARCOS              | [25020160] | 8.633333  | -75.133333 |
| 1103 | PURACE                  | [26010030] | 2.380861  | -76.454778 |
| 3200 | VERACRUZ HACIENDA       | [25020170] | 8.416667  | -75.566667 |
| 2525 | PUERTO ASIS             | [47010030] | 0.473611  | -76.480222 |
| 1895 | MARANONES               | [21215090] | 4.216667  | -74.933333 |
| 2827 | PLAYAS LAS HACIENDA     | [28020080] | 9.848083  | -73.462194 |
| 704  | TUCURA                  | [13010020] | 7.933333  | -76.266667 |
| 1019 | PUERTO BOYACA           | [23110010] | 5.950000  | -74.600000 |
| 1444 | UBALA                   | [35060180] | 4.752389  | -73.528583 |

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|------|-----------------------------------|-----------|------------|
| 1749 | PAYANDE [21217070]                | 4.301389  | -75.090139 |
| 2585 | ANGOSTURA DE URRRA [13037010]     | 8.000000  | -76.250000 |
| 89   | PIEDRAS DE COBRE - AUT [22057010] | 3.908389  | -75.103278 |
| 1240 | SAN ANTONIO [22060040]            | 3.916667  | -75.483333 |
| 2038 | PAVO REAL [21187020]              | 4.222500  | -75.198083 |
| 3115 | PARROQUIA LA [24060070]           | 7.076389  | -73.327778 |
| 3114 | PARROQUIA LA [24060010]           | 7.076389  | -73.327778 |
| 2751 | CHUCURI [23130010]                | 6.877778  | -74.031389 |
| 4291 | PUERTO VALDIVIA - AUT [26237040]  | 7.290000  | -75.400000 |
| 1155 | LOZANIA [21160060]                | 3.883333  | -74.783333 |
| 804  | LANDAZURI [23120090]              | 6.216667  | -73.816667 |
| 2156 | COLACHE HACIENDA [22050030]       | 3.795472  | -75.195639 |
| 931  | PUERTO ARAUJO [23120070]          | 6.533333  | -74.116667 |
| 2192 | GARAGOA [35070080]                | 5.078861  | -73.368528 |
| 3156 | CACHIRI [23190200]                | 7.483333  | -73.016667 |
| 2229 | CHAPARRAL [22060050]              | 3.716667  | -75.466667 |
| 2271 | VILLAHERMOSA [21250120]           | 5.016853  | -75.117611 |
| 1241 | VILLARRICA [21160070]             | 3.932917  | -74.609278 |
| 3210 | TEORAMA [16050190]                | 8.433333  | -73.300000 |
| 398  | ALBANIA [23120100]                | 5.783333  | -73.916667 |
| 1864 | BORBUR 1 [23120080]               | 5.650000  | -74.066667 |
| 77   | PURIFICACION - AUT [21137010]     | 3.849528  | -74.935778 |
| 785  | SUSA [24030370]                   | 6.188500  | -72.834833 |
| 2602 | PAJARITO [16027070]               | 8.016667  | -72.600000 |
| 3862 | LA BOYERA AUT                     | 5.303000  | -73.851333 |
| 1269 | RAD.DORADO - AUT [21206130]       | 4.705583  | -74.150667 |
| 1320 | ARROLIMA [21100150]               | 2.650000  | -75.350000 |
| 2231 | SAN MARTIN [35010220]             | 3.716667  | -73.700000 |
| 3959 | SALINAS DE UPIN [35035030]        | 4.300000  | -73.566667 |
| 1613 | PUENTE KM 85 EL [21250150]        | 4.933333  | -74.833333 |
| 451  | PAILITAS [25020200]               | 8.950000  | -73.633333 |
| 2890 | PUERTO MOSQUITO [23210010]        | 8.185000  | -73.755278 |
| 3437 | TAMALAMEQUE [25020090]            | 8.860389  | -73.815444 |
| 38   | ANGOSTURA RIO MICAY [53077010]    | 2.801222  | -77.241028 |
| 3391 | ASPASICA [16040030]               | 8.283333  | -73.200000 |
| 1322 | HONDURAS [53070010]               | 2.666667  | -77.266667 |
| 119  | LA BOYERA - AUT [24015110]        | 5.303806  | -73.851750 |
| 1563 | ISLA DEL SANTUARIO [24011100]     | 5.467278  | -73.734806 |
| 3785 | PUERTO LOPEZ [53070030]           | 2.845278  | -77.248972 |
| 1781 | CAPTACION-BOCATOMA [23067010]     | 5.500000  | -74.583333 |
| 1332 | DIAMANTE EL [22077030]            | 4.022194  | -75.568722 |
| 4003 | CRUZ LA 1 [52030070]              | 1.600000  | -76.983333 |
| 2396 | SAN JORGE GRANJA [21205720]       | 4.505750  | -74.189278 |
| 3313 | TURIPANA [13075030]               | 8.839528  | -75.801889 |
| 1587 | GARCIA HACIENDA [21250190]        | 4.850000  | -74.900000 |
| 2996 | BROTARE [16050170]                | 8.400556  | -73.423333 |
| 2885 | CANTINA LA [16050070]             | 8.166667  | -73.300000 |
| 3689 | SAN JOSE DE ISNOS [21010050]      | 1.931583  | -76.214917 |
| 2469 | CANADA LA [52037010]              | 1.665667  | -77.014722 |
| 3700 | PUERTO RICO [46030010]            | 1.966667  | -75.250000 |
| 2225 | IRACA GRANJA [35015020]           | 3.683333  | -73.700000 |
| 1948 | SANTA ROSA D UBALA 1 [35060040]   | 4.816667  | -73.400000 |
| 410  | SAN PABLO [29067030]              | 10.816667 | -74.033333 |
| 403  | SAN PABLO [29060070]              | 10.808194 | -74.026806 |
| 4145 | RIOSUCIO [11120040]               | 7.439444  | -77.115278 |

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|------|-----------------------|------------|-----------|------------|
| 1686 | SOTAQUIRA             | [24030380] | 5.749661  | -73.234923 |
| 1442 | PUERTO LOPEZ          | [35010010] | 4.105028  | -72.936500 |
| 36   | PUENTE SANTANDER      | [21097070] | 2.942611  | -75.308528 |
| 3947 | CANAL GUALANDAY       | [21217080] | 4.250000  | -75.016667 |
| 3990 | TAURAMENA             | [35190080] | 5.027258  | -72.869841 |
| 1295 | YOPAL                 | [35210020] | 5.350000  | -72.400000 |
| 1684 | TABLON DE TAMARA      | [35230030] | 5.747194  | -72.103000 |
| 3921 | CARMEN EL             | [23140030] | 6.696389  | -73.510000 |
| 2809 | PUERTO RICO           | [16020360] | 8.100000  | -72.466667 |
| 710  | VALE MONTEVIDE        | [16020300] | 7.950000  | -72.600000 |
| 3671 | INMAR                 | [42105010] | 0.933333  | -69.833333 |
| 2932 | PUERTO LEON           | [16020350] | 8.350000  | -72.450000 |
| 3485 | LIBANO EL HACIENDA    | [28025010] | 10.033333 | -73.250000 |
| 2898 | PALMA LA              | [16020240] | 8.200000  | -72.550000 |
| 1519 | GIRARDOT 1            | [21187040] | 4.283333  | -74.816667 |
| 1840 | TRIUNFO EL HACIENDA   | [21250350] | 4.866667  | -74.800000 |
| 2034 | NEIVA GRANJA          | [21115040] | 2.950000  | -75.300000 |
| 1804 | SAN AGUSTIN           | [35087010] | 4.859417  | -73.233417 |
| 2433 | PALOMINO              | [15030020] | 11.244167 | -73.573889 |
| 3261 | CONVENCION HACIENDA   | [28030030] | 10.283333 | -73.433333 |
| 1957 | BOLIVAR               | [26110040] | 4.342944  | -76.190444 |
| 1328 | ACACIAS               | [35010020] | 3.994639  | -73.765583 |
| 3080 | CORTIJO EL            | [26027090] | 2.623389  | -76.358556 |
| 3257 | AURORA LA             | [28047010] | 10.276861 | -73.977806 |
| 1134 | TOTORO                | [26027080] | 2.512472  | -76.403778 |
| 2344 | MALVASA               | [26027240] | 2.470750  | -76.336778 |
| 3406 | ESPERANZA LA HACIENDA | [28020150] | 10.029972 | -73.668833 |
| 1877 | SUSUMUCO              | [35020020] | 4.196167  | -73.771917 |
| 2070 | Buchitolo             | [26077060] | 3.374167  | -76.349722 |
| 4292 | LA PINTADA            | [26187110] | 5.730000  | -75.610000 |
| 1196 | IRRA - AUT            | [26167070] | 5.268306  | -75.664194 |
| 3933 | ICA-BALBOA            | [26095110] | 3.933333  | -76.300000 |
| 3995 | PINTADO EL            | [26167020] | 5.250000  | -75.616667 |
| 2412 | RETIRO EL             | [26157020] | 5.126778  | -75.671194 |
| 2059 | PASADENA              | [24015170] | 5.683333  | -73.600000 |
| 2270 | JUNTAS LAS            | [35070090] | 5.016667  | -73.383333 |
| 1193 | IRRA                  | [26170250] | 5.266667  | -75.666667 |
| 1598 | MARIA LA              | [26160160] | 5.587500  | -75.577500 |
| 2337 | AEROPUERTO MARIQUITA  | [23015040] | 5.209722  | -74.886389 |
| 2432 | CAMP BUENAVISTA       | [35080030] | 5.183722  | -73.086722 |
| 1976 | U P T C               | [24035130] | 5.543077  | -73.360813 |
| 2006 | CHIVOR                | [35070190] | 4.886361  | -73.366736 |
| 3623 | ARAUCA                | [26150060] | 5.108528  | -75.701667 |
| 383  | PINTADA LA            | [26180130] | 5.750000  | -75.600000 |
| 2269 | MANTA                 | [35070360] | 5.016667  | -73.550000 |
| 1086 | TENZA                 | [35070280] | 5.083333  | -73.416667 |
| 371  | SOMONDOCO             | [35070100] | 4.983472  | -73.433056 |
| 367  | ALMEIDA               | [35070140] | 4.966667  | -73.383333 |
| 1806 | PIEDRA CAMPANA        | [35080080] | 4.860389  | -73.234083 |
| 1087 | TENZA                 | [35070250] | 5.083333  | -73.416667 |
| 365  | GUAYATA               | [35070150] | 4.966667  | -73.483333 |
| 1074 | TENZA                 | [35070300] | 5.083333  | -73.416667 |
| 2138 | BOQUERON              | [21160080] | 3.753806  | -74.900889 |
| 1605 | FLORESTA LA           | [21200840] | 4.850000  | -73.783333 |
| 3563 | PIOJO                 | [14010010] | 10.746111 | -75.107972 |

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| 2710 | ASTREA                | [25020220] | 9.492944  | -73.972889 |
| 1248 | GACHALA               | [35060090] | 4.690528  | -73.522917 |
| 1482 | GAMA 1                | [35060060] | 4.766667  | -73.616667 |
| 1723 | JUNIN                 | [35060050] | 4.792222  | -73.668722 |
| 1085 | BELEN                 | [35070370] | 5.083333  | -73.566667 |
| 1330 | RONCESVALLES          | [22070010] | 4.006639  | -75.607750 |
| 3011 | MATILDE LA            | [28027020] | 10.165611 | -73.258333 |
| 2830 | CASACARA              | [28027010] | 9.833333  | -73.283333 |
| 3361 | ESPERANZA LA          | [16010290] | 7.566667  | -72.533333 |
| 3499 | CHIMILAIMA            | [28040200] | 10.066667 | -73.766667 |
| 3186 | CENTENARIO HACIENDA   | [28020500] | 9.933333  | -73.266667 |
| 2978 | VILLA AMINTA HACIENDA | [28020260] | 9.883333  | -73.350000 |
| 4025 | LLANOS LOS            | [28020230] | 9.733333  | -73.300000 |
| 3496 | FLORES LAS            | [28027030] | 10.096528 | -73.243528 |
| 1382 | UBALA                 | [35067020] | 4.750000  | -73.533333 |
| 2974 | SANTA TERESA          | [28027040] | 9.915944  | -73.283694 |
| 661  | MINCA                 | [15010010] | 11.140833 | -74.120000 |
| 3234 | PATILLAL              | [28010090] | 10.703861 | -73.211611 |
| 1300 | PUENTE SALGUERO - AUT | [28037030] | 10.384111 | -73.232472 |
| 3255 | CONVENCION HACIENDA   | [28037020] | 10.267833 | -73.417139 |
| 1485 | UBALA                 | [35067030] | 4.780222  | -73.491833 |
| 3273 | PUENTE CALLAO         | [28037010] | 10.362889 | -73.317361 |
| 819  | PANAMERICANA          | [56015010] | 6.223333  | -77.404444 |
| 3039 | SANTA ROSA            | [13070100] | 8.741111  | -75.601417 |
| 1423 | BETANIA               | [21097060] | 2.766667  | -75.366667 |
| 1790 | PUERTO GAITAN         | [35120010] | 4.311389  | -72.076639 |
| 3098 | VERACRUZ              | [29035060] | 10.566667 | -75.083333 |
| 3498 | PAVAS LAS             | [28040060] | 10.066667 | -73.883333 |
| 2988 | PALMARIGUANI          | [28040070] | 9.930083  | -73.954889 |
| 3232 | HIBACHARO             | [14010020] | 10.721889 | -75.140111 |
| 3412 | VENADOS LOS           | [28030050] | 10.016667 | -73.700000 |
| 3072 | MONTEERRUBIO          | [28040100] | 10.233694 | -74.273250 |
| 4040 | CARACOLICITO          | [28040110] | 10.200000 | -73.966667 |
| 257  | RABOLARGO             | [13070040] | 8.950611  | -75.742472 |
| 4053 | AURORA LA             | [28040130] | 10.283333 | -73.983333 |
| 4035 | GRANJA LA-EL COPEY    | [28040120] | 10.166667 | -73.900000 |
| 3533 | CERETE                | [13070050] | 8.890333  | -75.786250 |
| 3021 | MARIA ANGOLA          | [28030060] | 10.166667 | -73.600000 |
| 3531 | PUEBLO BELLO          | [28047020] | 10.419847 | -73.588833 |
| 3016 | MARIANGOLA            | [28037040] | 10.187417 | -73.585194 |
| 2981 | GUAIMARAL             | [28030070] | 9.900000  | -73.650000 |
| 1714 | IDEMA                 | [21250310] | 4.783333  | -74.783333 |
| 3478 | SAN ANGEL             | [28040140] | 10.033056 | -74.212611 |
| 3281 | DESCANSO EL           | [28030100] | 10.366667 | -73.500000 |
| 3530 | PUEBLO BELLO          | [28040010] | 10.414639 | -73.585028 |
| 3177 | NUEVA FLORIDA         | [29035040] | 9.944167  | -75.351389 |
| 4127 | MOMIL                 | [13070520] | 9.238889  | -75.676389 |
| 3164 | PUENTE CARRETERA      | [28047040] | 10.271000 | -73.972667 |
| 3267 | BELLAVISTA            | [28040150] | 10.308056 | -74.039222 |
| 238  | MONTERIA - AUT        | [13067020] | 8.751611  | -75.892417 |
| 1986 | PUENTE CARRETERA      | [23057010] | 5.566667  | -74.833333 |
| 1205 | MARQUETALIA           | [23050080] | 5.298917  | -75.057472 |
| 1719 | CHUSNEQUE             | [35067040] | 4.783333  | -73.583333 |
| 3018 | ALGARROBO             | [28047030] | 10.193444 | -74.046917 |
| 470  | SABANA NUEVA          | [13077010] | 9.032222  | -75.845833 |

|      |                         |            |           |            |
|------|-------------------------|------------|-----------|------------|
| 1987 | NORCASIA                | [23050070] | 5.566667  | -74.716667 |
| 1937 | GLORIA LA               | [35067010] | 4.815917  | -73.419278 |
| 3493 | CANTACLARO              | [28037060] | 10.088472 | -73.732806 |
| 3431 | SANTA HELENA            | [13067030] | 8.565400  | -75.965908 |
| 3961 | UNIV PEREIRA-UTP        | [26135080] | 4.800000  | -75.700000 |
| 643  | CURUMANI                | [25020250] | 9.197194  | -73.541944 |
| 2690 | RINCONHONDO             | [25020260] | 9.397028  | -73.488028 |
| 2692 | CANAL EL                | [25020240] | 9.410472  | -73.890417 |
| 3723 | MARGARITA LA            | [26170270] | 5.133333  | -75.716667 |
| 632  | SALOA                   | [25020270] | 9.193167  | -73.731306 |
| 633  | SALOA                   | [25027140] | 9.193194  | -73.732500 |
| 4011 | MONTELIBANO             | [25010090] | 8.033333  | -75.483333 |
| 1865 | PAUNA                   | [23120140] | 5.650000  | -73.983333 |
| 3814 | CHICORAL                | [21217010] | 4.231528  | -74.995361 |
| 2040 | CHICORAL                | [21215080] | 4.231528  | -74.995361 |
| 3936 | SANTA HELENA            | [22055030] | 3.986056  | -74.898806 |
| 3113 | JARRA LA                | [16010060] | 8.201944  | -72.432222 |
| 3536 | VILLARROSA-COMPUER      | [29037090] | 10.416667 | -75.150000 |
| 1147 | JABALCON                | [21135020] | 3.855833  | -75.015722 |
| 3669 | JUNIN                   | [51020010] | 1.340278  | -78.122333 |
| 3779 | LA DOCTRINA             | [13077040] | 9.297222  | -75.892778 |
| 3877 | PORTAL EL               | [21115070] | 3.014944  | -75.073000 |
| 3878 | LAURELES LOS            | [21115140] | 3.094000  | -74.921111 |
| 3052 | CUEVAS LAS              | [28040170] | 10.466667 | -73.566667 |
| 2488 | DIAMANTE EL             | [44037030] | 1.683333  | -75.666667 |
| 2802 | BECERRIL                | [28027050] | 9.686611  | -73.279194 |
| 3028 | CALLEMAR                | [13070120] | 8.697500  | -75.677778 |
| 3692 | LAGUNA LA               | [21010040] | 1.961472  | -76.085694 |
| 641  | GRACIAS A DIOS HACIENDA | [25027080] | 9.194472  | -73.576528 |
| 1903 | SANTA HELENA            | [21115050] | 3.133333  | -75.066667 |
| 3197 | CARRETOS LOS            | [28040180] | 9.966667  | -73.833333 |
| 3703 | MEDIANIA                | [21010060] | 2.020833  | -76.172139 |
| 2087 | BANQUITO EL             | [21145010] | 3.383333  | -74.850000 |
| 3799 | BLEDONIA                | [21255070] | 4.933333  | -74.916667 |
| 800  | SAN CARLOS              | [23080400] | 6.200000  | -74.983333 |
| 493  | SABANAS DE MANUELA      | [15060050] | 10.953000 | -73.047972 |
| 2721 | JAGUA LA                | [25020230] | 9.562167  | -73.339472 |
| 392  | CANAVERALES             | [15060080] | 10.757778 | -72.845222 |
| 3615 | BELLAVISTA              | [26145020] | 5.275944  | -75.800139 |
| 3263 | SANTA MARTA HACIENDA    | [28030090] | 10.300000 | -73.350000 |
| 3553 | EL BONGO                | [13077050] | 8.937583  | -75.856417 |
| 1993 | BOHEMIA LA              | [26135100] | 4.878028  | -75.877556 |
| 3667 | SANDONA                 | [52050040] | 1.322250  | -77.479194 |
| 3254 | MAHATES                 | [29037110] | 10.250000 | -75.200000 |
| 4461 | CAMELIA LA              | [26145030] | 5.080000  | -75.970000 |
| 4067 | BELLA FUENTE            | [29035050] | 10.650000 | -75.016667 |
| 2891 | SANTA RITA              | [16010040] | 8.185556  | -72.368333 |
| 2189 | CECILIA LA              | [26145010] | 5.066667  | -75.883333 |
| 2861 | NORMAL MANATI - AUT     | [29035080] | 10.453583 | -74.954639 |
| 1700 | SAN JOSE                | [21115060] | 3.329222  | -75.184056 |
| 3480 | SAN PABLO               | [29035110] | 10.043167 | -75.258611 |
| 2725 | LOMA LA                 | [25020280] | 9.606528  | -73.611972 |
| 4114 | ANCUYA                  | [5205702]  | 1.266667  | -77.516667 |
| 3005 | MALAGANA                | [29030090] | 10.150000 | -75.216667 |
| 1236 | ATACO                   | [22050040] | 3.928056  | -75.379167 |

|      |                                  |           |            |
|------|----------------------------------|-----------|------------|
| 2966 | PRESA AY GRANDE [29037100]       | 9.880000  | -75.330000 |
| 4183 | BUENAVISTA [14010040]            | 10.750000 | -75.083333 |
| 2068 | SAN ALFONSO - AUT [21147010]     | 3.370500  | -75.114167 |
| 2983 | AGUAS BLANCAS [29035140]         | 9.916667  | -75.333333 |
| 4348 | SAN CRISTOBAL [29030150]         | 9.870000  | -75.250000 |
| 3237 | FLAMENCO [29030160]              | 9.969167  | -75.400278 |
| 1784 | PUENTE CARRETERA [26017040]      | 2.447722  | -76.513972 |
| 3196 | HAYA LA [29030120]               | 9.966667  | -75.183333 |
| 2968 | SABANAS DE MUCACAL               | 9.879806  | -75.388694 |
| 3565 | USIACURI [29040410]              | 10.744722 | -74.980556 |
| 1982 | MARIPI [23120150]                | 5.550000  | -74.016667 |
| 2069 | SAN ALFONSO [21145040]           | 3.373361  | -75.110111 |
| 1484 | BANANERA LA 6-909 [26137110]     | 4.773389  | -75.633056 |
| 3497 | SAN CAYETANO [29030200]          | 10.099722 | -75.135278 |
| 2960 | PUENTE CARRETERA [26027100]      | 2.625889  | -76.522000 |
| 3241 | FLAMENCO [29030130]              | 9.969167  | -75.400278 |
| 2302 | ANCHIQUE [21135030]              | 3.573833  | -75.109000 |
| 4070 | SANTA RITA [29030210]            | 10.100000 | -75.166667 |
| 417  | JUAN DE ACOSTA [29045110]        | 10.833889 | -75.046111 |
| 1610 | SAN RAFAEL [24037090]            | 5.708389  | -73.242167 |
| 3086 | DORADA LA [28015020]             | 10.500000 | -73.116667 |
| 1683 | TIBASOSA [24030410]              | 5.743833  | -73.004917 |
| 2427 | LINEA LA PORVENIR [54010020]     | 5.171556  | -75.979417 |
| 1681 | MAGUNCIA [24037070]              | 5.741889  | -73.199556 |
| 1653 | LA VEGA [24037120]               | 5.588694  | -72.983056 |
| 3045 | SAN CARLOS [13070090]            | 8.790556  | -75.701389 |
| 4039 | CICOLAC [28015030]               | 10.483333 | -73.266667 |
| 1560 | ESPERANZA LA HACIENDA [23030010] | 5.466667  | -74.633333 |
| 1520 | SAN RAFAEL [21185050]            | 4.283333  | -74.800000 |
| 4346 | PUERTO SANTANDER [29030080]      | 10.000000 | -75.320000 |
| 363  | IDEMA-ARMERO [21250060]          | 4.966667  | -74.916667 |
| 3188 | HAYA LA [29030570]               | 9.958333  | -75.186111 |
| 1204 | MISTRATO [26140120]              | 5.294250  | -75.872722 |
| 1773 | DESAGUADERO [35097010]           | 5.487250  | -72.934111 |
| 3059 | GAMERO [29030170]                | 10.200278 | -75.201944 |
| 389  | NOBSA [24030790]                 | 5.773417  | -72.940250 |
| 994  | SANTA ROSA D VITERBO [24030400]  | 5.868722  | -72.985778 |
| 1614 | FLORIDA LA HACIENDA [21250370]   | 4.933333  | -74.816667 |
| 3562 | USIACURI [29040240]              | 10.744722 | -74.980556 |
| 2555 | MATITAS [15045010]               | 11.263889 | -73.030278 |
| 1612 | PUENTE EL KM 89 [21250360]       | 4.933333  | -74.866667 |
| 3962 | CANAL DESVIACION [35097020]      | 5.516667  | -72.933333 |
| 1910 | VILLAVIEJA FFCC [21115080]       | 3.183056  | -75.247500 |
| 3007 | ALGARROBO [28045020]             | 10.150000 | -74.066667 |
| 3256 | RINCON EL [28025020]             | 10.271389 | -73.131389 |
| 2429 | MACARENA LA HACIENDA [23010070]  | 5.183333  | -74.883333 |
| 2043 | LA RESACA [24037110]             | 5.680333  | -72.989611 |
| 4384 | GUADALUPE [21030050]             | 2.030000  | -75.780000 |
| 2343 | JULUMITO [26017020]              | 2.467583  | -76.644306 |
| 2674 | AGUABLANCA [16020320]            | 8.036111  | -72.483611 |
| 2894 | CASA BLANCA [16020150]           | 8.183333  | -72.550000 |
| 4383 | PUENTE GARCES - AUT [21037010]   | 2.030000  | -75.780000 |
| 677  | PLTA GAIRA [15010100]            | 11.183333 | -74.166667 |
| 3606 | SAN ADOLFO [21030060]            | 1.714278  | -76.022083 |
| 3277 | SAN DIEGO [28025030]             | 10.350000 | -73.183333 |

|      |                           |            |           |            |
|------|---------------------------|------------|-----------|------------|
| 593  | DELICIAS LAS              | [15010160] | 11.116667 | -74.133333 |
| 597  | TORRE TV                  | [15010140] | 11.116667 | -74.033333 |
| 712  | SIMITI                    | [23200010] | 7.960278  | -73.950556 |
| 2680 | PALMASORIANO              | [23207010] | 8.050000  | -74.083333 |
| 1624 | MOLINO EL                 | [24037450] | 5.722639  | -73.120806 |
| 2967 | PUENTE CARRETERA          | [26177010] | 5.452917  | -75.653361 |
| 3535 | NUEVO PRADO               | [28017040] | 10.400000 | -73.100000 |
| 1730 | RIO PALO                  | [26040050] | 3.070611  | -76.377833 |
| 1725 | RIO PALO                  | [26040310] | 3.070611  | -76.377833 |
| 1564 | IDEMA-DORADA              | [23040030] | 5.479194  | -74.676167 |
| 4317 | MARACAYO                  | [13067040] | 8.410000  | -75.890000 |
| 214  | PLATO MAGDALENA           | [25027450] | 9.787778  | -74.805833 |
| 2254 | IDEMA-HONDA               | [23010080] | 5.201417  | -74.749583 |
| 3484 | MAJAGUA                   | [29037140] | 10.033333 | -75.266667 |
| 8    | EL ROSARIO - AUT          | [44037040] | 1.725250  | -75.666389 |
| 3212 | PALOMAS LAS               | [13037020] | 8.450000  | -76.016667 |
| 1336 | VARSOVIA                  | [22075020] | 4.016667  | -75.166667 |
| 3717 | VILLAGARZON               | [44015010] | 1.034250  | -76.619250 |
| 1656 | EMPORIO EL HACIENDA       | [24010410] | 5.602083  | -73.545278 |
| 2298 | DEMOSTRACION GRANJA - AUT | [22045010] | 3.722444  | -75.503444 |
| 676  | GAIRA                     | [15017010] | 11.183333 | -74.183333 |
| 2615 | DOCTRINA LA               | [13080060] | 9.300000  | -75.883333 |
| 2174 | CAJAMARCA                 | [21215100] | 4.441500  | -75.424583 |
| 1611 | BLDONIA                   | [21250410] | 4.933333  | -74.916667 |
| 1936 | GLORIA LA                 | [35060220] | 4.815694  | -73.419778 |
| 1054 | LA MURALLA - AUT          | [22057060] | 3.481361  | -75.466972 |
| 2617 | CNO EL MUERTO             | [13070420] | 9.300000  | -75.850000 |
| 1905 | AEROPUERTO PLANADAS       | [22025010] | 3.166667  | -75.666667 |
| 1996 | PESCA                     | [24030440] | 5.566667  | -73.050000 |
| 4099 | MOCOA                     | [44015050] | 1.183333  | -76.666667 |
| 2622 | LIMON EL                  | [13070010] | 9.336111  | -75.937500 |
| 3544 | SALADO EL                 | [13075020] | 8.913889  | -75.582222 |
| 4335 | SAN BERNARDO DEL VIENTO   | [13085030] | 9.370000  | -75.950000 |
| 1595 | NARINO                    | [24017510] | 5.583333  | -73.350000 |
| 2149 | MEDIA LUNA                | [21135040] | 3.773750  | -75.119806 |
| 3195 | CAMPAMENTO                | [29037180] | 9.966667  | -75.283333 |
| 679  | PLASTICOS MAGDALEN        | [15010200] | 11.200000 | -74.200000 |
| 3975 | OTANCHE                   | [23120260] | 5.661722  | -74.184611 |
| 248  | AEROPUERTO PUERTO ASIS    | [47015020] | 0.500000  | -76.500000 |
| 1218 | PRESA AY MATUYA           | [29037190] | 9.930000  | -75.310000 |
| 2434 | INGENIO CAUCA             | [26065010] | 3.269167  | -76.347333 |
| 3208 | TORPEZA LA                | [13065010] | 8.433333  | -75.966667 |
| 3721 | RIO BOBO                  | [52050060] | 1.099500  | -77.299722 |
| 2475 | HIDROMAYO CASA MAQ        | [52030010] | 1.666667  | -77.000000 |
| 2591 | CAMPANARIO EL             | [16050130] | 8.004722  | -73.234444 |
| 2982 | COLU                      | [29030070] | 9.916667  | -75.350000 |
| 686  | CUBILETE EL BONDA         | [15010240] | 11.233333 | -74.150000 |
| 2170 | PERALES HATO OPIA         | [21245010] | 4.429667  | -75.200522 |
| 1780 | PACORA                    | [26167040] | 5.500000  | -75.566667 |
| 1075 | ZAPATA LA                 | [26070110] | 3.527194  | -76.210833 |
| 2797 | PUENTE CANOAS - AUT       | [28037090] | 9.646333  | -73.651833 |
| 3660 | CANEY EL MOJARRAS         | [52020040] | 1.899694  | -77.239500 |
| 1068 | PUENTE PORTILLO           | [21207960] | 4.454861  | -74.608528 |
| 680  | CACAOS LOS                | [15010190] | 11.200000 | -74.083333 |
| 692  | ONACA                     | [15010170] | 11.199722 | -73.840278 |

|      |                                   |           |            |
|------|-----------------------------------|-----------|------------|
| 3091 | GANADERIA CARIBE - AUT [29067150] | 10.574917 | -74.126667 |
| 325  | MINCA - AUT [15017030]            | 11.158917 | -74.122917 |
| 1459 | INGENIO BENGALA [26045010]        | 3.262806  | -76.414472 |
| 2574 | PUNTA BETIN [15015030]            | 11.472339 | -74.213203 |
| 2562 | REVUELTA LA [15017020]            | 11.277639 | -73.941556 |
| 3448 | PUENTE FERROCARRIL [29067130]     | 10.585806 | -74.192111 |
| 393  | CANAL FLORIDA [29067050]          | 10.758861 | -74.106639 |
| 415  | SANTA ROSALIA [29067040]          | 10.830806 | -74.120556 |
| 4108 | MERCADERES [52020120]             | 1.783333  | -77.150000 |
| 2338 | PUENTE LAS JUNTAS [26167010]      | 5.233333  | -75.650000 |
| 1456 | MIRANDA [26065020]                | 3.245667  | -76.223056 |
| 3968 | PORVENIR EL [21117020]            | 3.183333  | -75.266667 |
| 1676 | JAPIO [26025030]                  | 3.048361  | -76.441417 |
| 1914 | POLONIA [21117090]                | 3.183333  | -75.233333 |
| 3240 | CHIMILAIMA 3 [28040210]           | 9.966667  | -73.800000 |
| 3194 | RANCHO CHICO [29030110]           | 9.966667  | -75.300000 |
| 1084 | ROSALES LOS [35070380]            | 5.083333  | -73.616667 |
| 3206 | BUENOS AIRES [13060020]           | 8.475833  | -75.765278 |
| 4351 | CIENAGA DE ORO [13070390]         | 8.870000  | -75.630000 |
| 1546 | TIERRABLANCA [26117030]           | 4.416667  | -76.100000 |
| 508  | TASAJERA [29060120]               | 10.976222 | -74.361750 |
| 3315 | SANTA LUCIA [13050010]            | 8.848611  | -76.045278 |
| 2410 | VENADO ORO VIVERO [21205580]      | 4.598361  | -74.061556 |
| 1288 | NUEVO COLON [35075010]            | 5.352694  | -73.453778 |
| 2028 | PUENTE FERROCARRIL [26027210]     | 3.038028  | -76.511806 |
| 3027 | CARRIZAL [13070110]               | 8.681944  | -75.753528 |
| 2877 | CINERA-VILLA OLGA [16025040]      | 8.167778  | -72.468611 |
| 709  | PUERTO NUEVO [13035010]           | 7.950000  | -76.283333 |
| 3375 | MAGARA [23195070]                 | 7.600000  | -73.583333 |
| 3734 | PENOL EL [52050010]               | 1.454444  | -77.439444 |
| 3244 | CHIMILAIMA 4 [28040220]           | 9.983333  | -73.866667 |
| 3752 | TAMINANGO [52030080]              | 1.550000  | -77.283333 |
| 2455 | PUENTE GUASCAS [52017010]         | 1.594278  | -77.429361 |
| 3006 | FLECHA LA HACIENDA [29030220]     | 10.150000 | -75.216667 |
| 3549 | SAN ANTONIO [13080030]            | 8.933333  | -75.983333 |
| 4110 | BOLIVAR BOQUERON [52020110]       | 1.833333  | -77.000000 |
| 3546 | SAN ANTONIO [13080010]            | 8.935861  | -75.953333 |
| 14   | PUENTE PUSMEO - AUT [52077010]    | 1.624056  | -77.478917 |
| 3443 | VORAGINE LA [13055010]            | 8.600000  | -76.033333 |
| 3374 | SAN RAFAEL MIRA 8 [23197070]      | 7.600000  | -73.616667 |
| 2937 | MIRA 2 [23187020]                 | 7.400000  | -73.483333 |
| 2938 | CHOCOA LA [23187040]              | 7.400000  | -73.483333 |
| 2949 | PROVINCIA MIRA # 4 [23197040]     | 7.416667  | -73.433333 |
| 620  | DESPENSA LA [13017010]            | 7.866667  | -76.283333 |
| 2444 | SIERRA LA [52020100]              | 2.166667  | -76.766667 |
| 1576 | JUNCAL EL [21097010]              | 2.803972  | -75.326917 |
| 2939 | CNO SIETE [23190240]              | 7.400000  | -73.450000 |
| 165  | PUERTO ARAUJO - AUT [23127020]    | 6.525556  | -74.085833 |
| 1627 | JUNCAL EL [21095010]              | 2.828806  | -75.331167 |
| 563  | CHIMA [13070310]                  | 9.150000  | -75.616667 |
| 1912 | POLONIA [21110330]                | 3.187389  | -75.218417 |
| 1821 | SANTA BARBARA [21090110]          | 2.865528  | -75.339889 |
| 1695 | YEGUERA LA [21110120]             | 3.305333  | -75.200778 |
| 2952 | CAMPOHERMOSO [23190250]           | 7.433333  | -73.433333 |
| 3155 | URBINA LA [23197030]              | 7.483333  | -73.466667 |



|      |                     |            |           |            |
|------|---------------------|------------|-----------|------------|
| 2962 | RIOSUCIO            | [11147010] | 7.440000  | -77.120000 |
| 3537 | LIMON EL            | [29035120] | 10.416667 | -75.066667 |
| 386  | BELEN               | [11047010] | 5.764833  | -76.669667 |
| 2794 | NORMA LA MIRA 7     | [23197060] | 8.100000  | -73.783333 |
| 3216 | LOMA VERDE          | [13050030] | 8.501944  | -76.175278 |
| 3175 | CARAMELO            | [13060030] | 8.266111  | -75.903889 |
| 988  | CANASGORDAS         | [11110040] | 6.750000  | -76.033333 |
| 3955 | TACUEYO             | [26040320] | 3.050000  | -76.233333 |
| 806  | TAGACHI             | [11050010] | 6.221778  | -76.727028 |
| 431  | CHIGORODO           | [12010130] | 7.700000  | -76.700000 |
| 1682 | TUTUNENDO           | [11040010] | 5.743611  | -76.537806 |
| 624  | SAN ALBERTO MIRA 6  | [23197080] | 7.883333  | -73.700000 |
| 1665 | CARMEN EL           | [21130060] | 3.007139  | -75.559194 |
| 3033 | TENERIFE            | [13055020] | 8.683333  | -76.116667 |
| 3067 | JARDIN DE ROSITA    | [28040230] | 10.200000 | -73.983333 |
| 2946 | VILLA LEIVA         | [23185010] | 7.456111  | -73.537222 |
| 3579 | DOMINGODO           | [11100020] | 7.180000  | -77.030000 |
| 3399 | JARAGUAY            | [13045010] | 8.300000  | -76.083333 |
| 2773 | BOCATOMA RIO ZULIA  | [16020140] | 8.077333  | -72.583889 |
| 2425 | BUENOS AIRES        | [26147040] | 5.188389  | -75.813278 |
| 1580 | SINAI EL            | [54020050] | 4.834333  | -76.206944 |
| 1708 | PALESTINA           | [54090010] | 4.162611  | -77.135556 |
| 560  | LIMON EL            | [13017020] | 7.833333  | -76.266667 |
| 1410 | TACUEYO             | [26040280] | 2.733333  | -76.333333 |
| 4392 | OPOGODO             | [54020060] | 5.060000  | -76.650000 |
| 2015 | VALENCIA LA DIVISA  | [54020040] | 4.903861  | -76.290833 |
| 3778 | NOVITA              | [54020020] | 4.955694  | -76.605556 |
| 3795 | PATUMAC             | [54030010] | 4.572833  | -76.201667 |
| 4103 | SIBUNDOY            | [4701705]  | 1.200000  | -76.883333 |
| 803  | TAGACHI             | [11057010] | 6.216667  | -76.716667 |
| 2467 | PISANDA             | [52080010] | 1.651389  | -77.505556 |
| 4050 | DONACHUI            | [28010110] | 10.716667 | -73.466667 |
| 2791 | PUERTO SALGAR - AUT | [13037030] | 8.100000  | -76.100000 |
| 4129 | BELLAVISTA          | [11077010] | 6.558806  | -76.884472 |
| 2391 | LITUANIA            | [54030030] | 4.495722  | -76.352222 |
| 1141 | REMOLINO            | [26037010] | 2.514639  | -76.831333 |
| 2472 | POLICARPA           | [52080020] | 1.633333  | -77.450000 |
| 3928 | TRAVIEZA LA         | [26037020] | 2.383333  | -76.650000 |
| 1168 | NOANAMA PUEBLO      | [54087020] | 4.666667  | -76.950000 |
| 2559 | CARRAIPIA           | [15080140] | 11.266667 | -72.366667 |
| 2568 | ARROYO ARENA        | [15060230] | 11.283333 | -72.883333 |
| 3735 | AGROYACO            | [5205017]  | 1.116667  | -77.333333 |
| 3158 | AGUAS CLARAS - AUT  | [16017010] | 8.233611  | -72.417222 |
| 1685 | LA REFORMA          | [24037130] | 5.748833  | -73.189889 |
| 4324 | LAS VARAS - AUT     | [25027200] | 8.390000  | -74.560000 |
| 2793 | NECHI               | [25027480] | 8.100000  | -74.766667 |
| 2597 | MARGENTO - AUT      | [25027050] | 8.025444  | -75.089750 |
| 4182 | BELLAVISTA          | [11080010] | 6.559167  | -76.885417 |
| 43   | GUACAMAYO           | [25020030] | 8.727222  | -74.512222 |
| 4073 | PINILLOS            | [25020380] | 8.911389  | -74.457778 |
| 2970 | CNO CUEVAS CHEVRON  | [16020170] | 8.200000  | -72.483333 |
| 52   | CANDELARIA LA       | [25020410] | 8.219444  | -74.728750 |
| 3068 | GAMERO              | [29030680] | 10.200278 | -75.201944 |
| 2078 | SAN ALFONSO         | [21140390] | 3.373361  | -75.110111 |
| 2062 | HUAPANGO            | [11045030] | 5.700000  | -76.633333 |

|      |                     |            |           |            |
|------|---------------------|------------|-----------|------------|
| 3645 | SAN AGUSTIN         | [21010070] | 1.850000  | -76.300000 |
| 1176 | NOANAMA             | [54050020] | 4.666667  | -76.866667 |
| 2792 | NECHI               | [25020310] | 8.100000  | -74.833333 |
| 1455 | PEREZ HACIENDA      | [21130050] | 3.243556  | -75.255944 |
| 58   | MONTECRISANTO       | [25020440] | 8.300000  | -74.433333 |
| 4036 | FLORIDA LA          | [25021570] | 8.650000  | -75.166667 |
| 2589 | LIMONCITO 1         | [16010150] | 8.000000  | -72.416667 |
| 2940 | SABANA DE TORRES    | [23195120] | 7.400000  | -73.400000 |
| 4049 | ALPES LOS           | [25020510] | 8.416667  | -74.550000 |
| 2670 | BOCATOMA RIO FRIO   | [16050120] | 8.036417  | -73.219278 |
| 273  | GUARANDA            | [25020350] | 8.492778  | -74.541667 |
| 4314 | LA COQUERA - AUT    | [26247020] | 7.960000  | -75.200000 |
| 319  | LA PAULINA - AUT    | [15065040] | 10.898139 | -72.828472 |
| 1966 | SAIJA               | [53060020] | 2.871806  | -77.621667 |
| 1706 | MALAGUITA           | [54077130] | 4.154444  | -77.216389 |
| 2933 | CAIMITAL            | [25020330] | 8.366389  | -74.569167 |
| 3939 | PLAYA CHACON        | [53040020] | 2.683333  | -77.716667 |
| 2219 | PALMALARGA          | [22057040] | 3.674167  | -75.306056 |
| 3932 | BONANZA             | [53045010] | 2.566667  | -77.883333 |
| 1672 | CALOTO              | [26020120] | 3.030083  | -76.406667 |
| 1908 | VILLA RICA          | [26060030] | 3.178944  | -76.463000 |
| 1941 | BUENOS AIRES        | [26020100] | 3.020194  | -76.639083 |
| 1913 | BOCA LA             | [21110230] | 3.183333  | -75.266667 |
| 3297 | SUCRE               | [25027110] | 8.809722  | -74.722222 |
| 53   | CANDELARIA LA       | [25027280] | 8.233333  | -74.716667 |
| 4312 | DOMINGODO           | [11107010] | 7.180000  | -77.030000 |
| 3551 | SAN BENITO A VILLA  | [25020490] | 8.933333  | -75.033333 |
| 2922 | PUERTO SANTANDER    | [16020370] | 8.359444  | -72.410000 |
| 3464 | UNION LA            | [29060240] | 10.706556 | -74.223556 |
| 3560 | PROYECTOS LOS       | [29060250] | 10.736722 | -74.237083 |
| 1418 | TIMBIQUI            | [53050020] | 2.773611  | -77.663611 |
| 3949 | TIERRABLANCA        | [26115030] | 4.416667  | -76.100000 |
| 1112 | PIEDRAS LAS         | [53070110] | 2.416667  | -77.183333 |
| 3096 | DESTINO EL          | [29060150] | 10.573667 | -74.224111 |
| 3685 | BUESACO             | [52040090] | 1.383333  | -77.133333 |
| 3233 | PALO ALTO           | [29060270] | 10.722500 | -74.271917 |
| 3910 | SAUTATA             | [11130030] | 7.866667  | -77.166667 |
| 1793 | INGENIO RIOPAILA    | [26105110] | 4.324500  | -76.084528 |
| 3856 | CERTEGUI            | [11030010] | 5.380000  | -76.610000 |
| 4491 | ISTMINA             | [54010010] | 5.158750  | -76.689222 |
| 482  | SAN ISIDRO          | [29060280] | 10.900833 | -74.220611 |
| 706  | ZULIA PUENTE OSPINA | [16027130] | 7.933333  | -72.566667 |
| 1029 | LA SIERRA - AUT     | [24025030] | 5.966389  | -73.163891 |
| 3278 | BELLA PAZ LA        | [28020300] | 10.350000 | -73.100000 |
| 390  | BELENCITO           | [24035150] | 5.781583  | -72.894306 |
| 2700 | LIMONCITO 2         | [16020310] | 8.066667  | -72.533333 |
| 2587 | PALANCA             | [25027130] | 8.000000  | -75.166667 |
| 1428 | TROJITA LA          | [54077010] | 4.069500  | -77.084361 |
| 4462 | CENT ADMO LA UNION  | [26115040] | 4.530000  | -76.060000 |
| 3648 | RODEO EL            | [52020050] | 1.880167  | -76.991611 |
| 3387 | PRIMAVERA LA        | [16010070] | 8.266667  | -72.450000 |
| 3907 | CIENAGA GRANDE      | [15010050] | 11.000000 | -74.250000 |
| 3466 | CARMEN EL           | [29060140] | 10.675500 | -74.206444 |
| 3467 | GAVILAN             | [29060170] | 10.680444 | -74.330694 |
| 4051 | BODEGA LA           | [29030700] | 10.716667 | -74.250000 |

|      |                            |            |           |            |
|------|----------------------------|------------|-----------|------------|
| 507  | PALMA LA                   | [29060210] | 10.966833 | -74.204694 |
| 577  | FILTRO DE AGUA             | [15010070] | 11.016667 | -74.233333 |
| 275  | BUENAVISTA                 | [25027260] | 8.566667  | -74.550000 |
| 1197 | PUENTE MULAS - AUT         | [21107020] | 2.566389  | -75.374278 |
| 4333 | SAN ANTONIO                | [25027180] | 9.040000  | -74.770000 |
| 3458 | EDEN EL                    | [29030690] | 10.633333 | -74.300000 |
| 1192 | BOCATOMA 6-930             | [26147010] | 5.266667  | -75.833333 |
| 3454 | MANTEQUEIRA                | [25027170] | 8.883333  | -74.466667 |
| 2554 | GUACHACA                   | [15010300] | 11.256389 | -73.836667 |
| 3065 | LIMONCITO                  | [23190270] | 7.050000  | -73.100000 |
| 3112 | LAGUNA LA                  | [23190260] | 7.079722  | -73.213611 |
| 3077 | PUERTO RICO HACIENDA - AUT | [29067060] | 10.500000 | -74.133333 |
| 2836 | PALO GORDO                 | [23190280] | 6.967500  | -73.133056 |
| 2284 | YE LA                      | [15015020] | 10.992417 | -74.211139 |
| 3329 | PICACHO EL                 | [23190300] | 7.110000  | -72.966389 |
| 1071 | GRAMAS LAS                 | [26115050] | 4.466667  | -76.116667 |
| 3475 | ZACAPA                     | [29065010] | 10.583333 | -74.250000 |
| 480  | RIO FRIO                   | [29065040] | 10.900000 | -74.166667 |
| 1072 | HIGUERON                   | [26110060] | 4.466667  | -76.116667 |
| 3398 | CAMBULOS LOS               | [16020260] | 8.283333  | -72.466667 |
| 1079 | LAS GAVIOTAS               | [34015010] | 4.553944  | -70.930111 |
| 3124 | PLANADAS                   | [16020340] | 8.216944  | -72.436111 |
| 3231 | PADELMA                    | [29065020] | 10.721111 | -74.199722 |
| 2241 | SAN ANTONIO                | [26110070] | 4.616667  | -76.066667 |
| 4044 | CARRIZAL PUENTE TONA       | [23197100] | 7.233333  | -72.983333 |
| 2326 | OBANDO                     | [26100300] | 4.588611  | -75.965833 |
| 3150 | VERGEL EL                  | [26097040] | 3.888250  | -76.264169 |
| 3909 | TAGUA LA                   | [15010150] | 11.116667 | -74.050000 |
| 656  | MAGANGUE                   | [25027680] | 9.240000  | -74.741667 |
| 1225 | BOCAS DEL ARIARI           | [32045010] | 2.583333  | -72.783333 |
| 2853 | VADORREAL                  | [23197110] | 7.000000  | -73.183333 |
| 3249 | DONA VILA HACIENDA         | [28040250] | 10.000000 | -73.833333 |
| 4000 | MARIA LA                   | [26167030] | 5.183333  | -75.700000 |
| 3957 | HACHON EL                  | [35035060] | 4.166667  | -73.600000 |
| 3133 | SAN IGNACIO                | [23190310] | 7.233333  | -73.150000 |
| 2438 | LA MACARENA                | [32035010] | 2.176111  | -73.793333 |
| 4187 | BUENAVISTA                 | [23190330] | 7.000000  | -73.050000 |
| 3593 | PUENTE SARDINAS - AUT      | [23197130] | 7.293056  | -73.142222 |
| 2464 | MAGUARE - AUT              | [46035010] | 1.640222  | -75.162667 |
| 2074 | SAN LORENZO                | [24035210] | 5.783333  | -73.083333 |
| 3417 | MATANZA                    | [23190370] | 7.366667  | -73.033333 |
| 2910 | MATAJIRA                   | [23190340] | 7.213333  | -73.064722 |
| 1501 | BASCULA LA                 | [23040050] | 5.433333  | -74.716667 |
| 1645 | SALADOS LOS                | [35020070] | 4.116667  | -73.150000 |
| 3347 | PORTACHUELO                | [23190360] | 7.328056  | -73.165000 |
| 3339 | MARIANA LA HACIENDA        | [23190690] | 7.116667  | -73.000000 |
| 396  | SENA                       | [24035200] | 5.766667  | -72.916667 |
| 569  | COCOS LOS                  | [29060080] | 11.005972 | -74.683639 |
| 2480 | AGROYACO                   | [52057030] | 1.574389  | -77.441972 |
| 3145 | CERO EL                    | [23197140] | 7.250000  | -73.150000 |
| 3157 | BARRANCAS                  | [16020130] | 8.245500  | -72.526306 |
| 2846 | PANTANO EL                 | [23190600] | 6.997500  | -73.230278 |
| 2881 | BALCONES LOS               | [16020120] | 8.133333  | -72.450000 |
| 2595 | CERRO PELAO                | [16020180] | 8.011944  | -72.500278 |
| 3382 | CAMPOALEGRE                | [23197160] | 7.150000  | -73.216667 |

|      |                                   |           |            |
|------|-----------------------------------|-----------|------------|
| 609  | ROSARIO EL [16010190]             | 7.850000  | -72.500000 |
| 348  | COLORADA LA [16020230]            | 7.966667  | -72.616667 |
| 3666 | MONO LA [4404503]                 | 1.303361  | -75.807722 |
| 3135 | LLANO DE PALMAS [23190350]        | 7.240139  | -73.195361 |
| 2790 | GUADUAS [16020200]                | 8.083333  | -72.533333 |
| 3597 | VALPARAISO [44045020]             | 1.195250  | -75.704472 |
| 2588 | GUAYABAL [16020210]               | 8.000000  | -72.500000 |
| 637  | ESCOBAL EL [16010170]             | 7.850000  | -72.533333 |
| 2909 | PALMAS [23190380]                 | 7.211083  | -73.217889 |
| 2843 | PIEDECUESTA [23197190]            | 6.983333  | -73.033333 |
| 4084 | PUENTE OLAS [23197180]            | 7.166667  | -73.116667 |
| 617  | URIMACO [16020280]                | 7.900833  | -72.592500 |
| 2050 | CUCUNUBA - AUT [21187030]         | 4.232056  | -75.092722 |
| 3611 | RICAUARTE [51025020]              | 1.200000  | -77.983333 |
| 3331 | GALVICIA LA [23190400]            | 7.124444  | -73.057222 |
| 2610 | DOCTRINA LA [13085010]            | 9.297222  | -75.892778 |
| 3182 | COMPUERTAS [29037220]             | 9.933333  | -75.316667 |
| 4045 | PUENTE JABONCILLO 1 [23197220]    | 7.283333  | -73.016667 |
| 2280 | PARRAGA [52010050]                | 2.232250  | -76.787861 |
| 759  | MEREY EL [38015020]               | 6.166667  | -67.533333 |
| 1634 | BUENAVISTA [21090090]             | 2.833333  | -75.350000 |
| 798  | SAN CARLOS [23080490]             | 6.200000  | -74.983333 |
| 1777 | VILLA CARMEN [24015220]           | 5.509389  | -73.495778 |
| 3004 | INGENIO SANTA CRUZ [29035090]     | 10.133333 | -75.250000 |
| 2002 | CACHIPAY [35080140]               | 4.883333  | -73.250000 |
| 830  | CHARALA [24020210]                | 6.274167  | -73.150556 |
| 1915 | BATEAS [21110320]                 | 3.183333  | -75.200000 |
| 1062 | NARANJOS LOS [32075010]           | 3.466667  | -73.716667 |
| 1566 | PAPAGAYO HACIENDA [21090040]      | 2.777583  | -75.347528 |
| 3017 | VILLA ROSA [28035010]             | 10.190667 | -73.547389 |
| 1324 | COREA [22077040]                  | 3.983333  | -75.116667 |
| 1319 | VUELTA LA [21105020]              | 2.650000  | -75.366667 |
| 2061 | VENECIA HACIENDA [24035140]       | 5.683333  | -72.966667 |
| 4327 | SAN MARCOS - AUT [25027220]       | 8.650000  | -75.130000 |
| 1051 | MESA DE POLE [22055020]           | 3.455778  | -75.536361 |
| 2578 | TANINOS [15065070]                | 11.516667 | -72.866667 |
| 1113 | FLORIDA LA [26027260]             | 2.433333  | -76.366667 |
| 3132 | PUENTE PALOMAS-PALMAS [23197230]  | 7.233333  | -73.233333 |
| 3400 | AYAPEL BEIRUT [25027230]          | 8.300000  | -75.116667 |
| 3274 | CALLAO EL [28035020]              | 10.363056 | -73.319444 |
| 3470 | CAMPOALEGRE [28015050]            | 10.650000 | -73.133333 |
| 3266 | SANTA LUCIA GRANJA [29035130]     | 10.316667 | -74.950000 |
| 3541 | JEGUA [25027240]                  | 8.906306  | -74.965944 |
| 1475 | CABLE EL MR 2 [35057020]          | 4.366667  | -73.266667 |
| 1076 | PUENTE CARRETERA - AUT [35027140] | 4.070194  | -73.762500 |
| 1469 | EL JAPON [35055010]               | 4.376972  | -73.301306 |
| 290  | PUENTE ABADIA - AUT [35037100]    | 4.235333  | -73.635361 |
| 407  | SARACHUI [28010130]               | 10.783333 | -73.400000 |
| 2772 | PUERTO CORDOBA [25027070]         | 8.068056  | -75.361389 |
| 1436 | APIAY [35030060]                  | 4.083333  | -73.566667 |
| 466  | SITIO NUEVO [25027290]            | 9.016389  | -74.605639 |
| 3911 | RETIRO EL [25027250]              | 9.166667  | -74.716667 |
| 3299 | VILLA CECILIA HACIENDA [25020500] | 8.816111  | -74.729444 |
| 3841 | EL CHORRO [16050100]              | 8.017472  | -73.183750 |
| 3418 | UNEGATO [23197260]                | 7.366667  | -72.983333 |

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|------|----------------------------------|------------|-----------|------------|
| 1426 | LIBERTAD LA                      | [35020270] | 4.057361  | -73.467917 |
| 2950 | URBINA LA                        | [23195080] | 7.416667  | -73.350000 |
| 1759 | PUERTO LIMON                     | [32075020] | 3.366667  | -73.500000 |
| 618  | CORNEJO                          | [16020190] | 7.901389  | -72.634167 |
| 1140 | NUTRIA LA                        | [35015010] | 3.800000  | -73.433333 |
| 1476 | CABLE EL MR 3                    | [35057030] | 4.366667  | -73.266667 |
| 3172 | SANTA ISABEL                     | [16015040] | 8.233333  | -72.433333 |
| 2453 | CARRIZAL                         | [47010150] | 1.136750  | -77.037306 |
| 2904 | BERLIN                           | [37015020] | 7.186944  | -72.868611 |
| 2556 | FLORIDA LA                       | [15050020] | 11.250000 | -72.916667 |
| 3094 | SAN SEBASTIAN DE                 | [29060090] | 10.563306 | -73.603806 |
| 3421 | SABANA DE TORRES                 | [23180070] | 7.390000  | -73.489444 |
| 380  | VOLADOR EL                       | [35070460] | 4.983333  | -73.350000 |
| 3407 | PUENTE PANEGA                    | [23197270] | 7.341111  | -72.990000 |
| 1427 | PACHAQUIARO                      | [35025030] | 4.066667  | -73.183333 |
| 4007 | FLORIDA LA                       | [15055010] | 11.250000 | -72.916667 |
| 267  | LAS FLORES                       | [25027270] | 8.102417  | -74.773444 |
| 2063 | BETANIA-VOLGA                    | [26190080] | 5.700000  | -75.983333 |
| 4368 | CABUYARO                         | [35100020] | 4.280000  | -72.790000 |
| 260  | AEROPUERTO LA NUBIA              | [26155110] | 5.029778  | -75.469917 |
| 4119 | SAN JOSE DE FRAGUA               | [44040010] | 1.350000  | -75.966667 |
| 2168 | SAN JUANITO                      | [35050020] | 4.423222  | -73.395972 |
| 1752 | VICTORIA LA                      | [21110290] | 3.349556  | -75.170306 |
| 3023 | BOCATOMA-FLORIDA                 | [26017030] | 2.414278  | -76.508611 |
| 1561 | ANCON EL                         | [24017240] | 5.466667  | -73.533333 |
| 1716 | CAMPAMENTO AMBALEM               | [21250430] | 4.783333  | -74.766667 |
| 3383 | BRASIL EL                        | [23190410] | 7.150000  | -73.016667 |
| 1891 | GUAYABETAL                       | [35020100] | 4.200000  | -73.816667 |
| 1951 | EL RETIRO                        | [35040010] | 4.338722  | -73.546528 |
| 3588 | CAMPO CAPOTE                     | [23125040] | 6.616111  | -73.920556 |
| 351  | CACAOTERAS DEL DIQ               | [26255040] | 7.983333  | -75.116667 |
| 2456 | BUENOS AIRES                     | [47010060] | 1.116667  | -76.950000 |
| 1449 | MANZANARES                       | [35020030] | 4.116667  | -73.800000 |
| 1148 | PURIFICACION 1                   | [21137020] | 3.859194  | -74.959111 |
| 3336 | VIVERO CHIMITA                   | [23195050] | 7.116667  | -73.150000 |
| 1789 | MONFORT                          | [35030020] | 4.310083  | -73.648028 |
| 927  | VIVERO SURATA - AUT              | [23195090] | 7.365833  | -72.987500 |
| 3003 | BOGOTANA LA                      | [28020310] | 10.100000 | -73.150000 |
| 4042 | VILLA CARMELITA                  | [28010140] | 10.533333 | -73.300000 |
| 2867 | LOMA GRANDE                      | [29030270] | 10.433833 | -75.131583 |
| 3596 | BOMBONA                          | [52055030] | 1.184361  | -77.465111 |
| 2310 | CAYETANA LA                      | [26115060] | 4.566667  | -76.033333 |
| 4063 | DAVE EL                          | [16015080] | 8.316667  | -72.416667 |
| 4024 | LIMONCITO                        | [16025050] | 8.100000  | -72.566667 |
| 3479 | MANATURE HACIENDA                | [28040270] | 10.035111 | -73.788528 |
| 2033 | MISION LA                        | [54075040] | 4.222500  | -77.276333 |
| 689  | ESCUELA AGRICOLA CARRAIPIA - AUT | [15085030] | 11.216750 | -72.359944 |
| 1541 | EL CABLE                         | [35057010] | 4.396222  | -73.292528 |
| 2920 | PAJAROS LOS                      | [25020480] | 8.340556  | -74.867778 |
| 2458 | SANTIAGO                         | [47015060] | 1.133333  | -77.000000 |
| 1181 | DON ANTONIO CAMELI               | [35095020] | 4.683333  | -73.033333 |
| 4096 | MENTA LA                         | [4701501]  | 1.183333  | -76.933333 |
| 3338 | MARIANA LA                       | [23195060] | 7.116667  | -73.000000 |
| 1500 | PALMAR EL HACIENDA               | [23040060] | 5.433333  | -74.733333 |
| 4365 | EL CALVARIO                      | [35030010] | 4.349997  | -73.710000 |

|      |                            |            |           |            |
|------|----------------------------|------------|-----------|------------|
| 3022 | AMERICA ALGARR HACIENDA    | [28040280] | 10.200000 | -74.050000 |
| 2177 | GUADUALITO                 | [35105010] | 4.433333  | -72.966667 |
| 603  | CARMEN DE TONCHALA         | [16025010] | 7.848889  | -72.566111 |
| 1227 | CAÑO HONDO                 | [35010040] | 3.924222  | -73.814583 |
| 3020 | DILUVIO HACIENDA           | [28037050] | 10.166667 | -73.633333 |
| 2838 | SANTO DOMINGO              | [23197010] | 6.983333  | -73.133333 |
| 1721 | SALTO EL                   | [21255080] | 4.783750  | -74.767944 |
| 3569 | CAFE MADRID                | [23197290] | 7.170000  | -73.150000 |
| 2980 | BOSCONIA                   | [28040290] | 9.900000  | -73.850000 |
| 2839 | PIEDECUESTA                | [23190430] | 6.983333  | -73.050000 |
| 627  | SAN LORENZO - AUT          | [15015060] | 11.111083 | -74.054694 |
| 2273 | SUTATENZA                  | [35075020] | 5.022278  | -73.449167 |
| 2985 | EUROPA 8                   | [28020350] | 9.916667  | -73.316667 |
| 1965 | ACEITUNO EL                | [21220050] | 4.353444  | -75.053056 |
| 1838 | SANTA CECILIA              | [21090030] | 2.916667  | -75.316667 |
| 1711 | MALAGUITA                  | [54070030] | 4.169222  | -77.205722 |
| 1743 | CABUYARO                   | [35105030] | 4.283722  | -72.792833 |
| 1867 | CARMEN EL                  | [24015230] | 5.650000  | -73.516667 |
| 2320 | PUENTE CAYETANA            | [26117100] | 4.583333  | -76.066667 |
| 879  | BUCHADO                    | [11060010] | 6.420000  | -76.779278 |
| 2154 | SAN LUIS CUBARRAL          | [32060030] | 3.790722  | -73.842778 |
| 2309 | SAN ANTONIO                | [26117060] | 4.566667  | -76.083333 |
| 3857 | NOANAMA                    | [54050010] | 4.716667  | -76.916667 |
| 2420 | TAPARCAL                   | [26140090] | 5.167056  | -75.862778 |
| 1066 | MESA DE YAMANES            | [32060020] | 3.530944  | -73.901083 |
| 1666 | GEDE                       | [54017050] | 5.350000  | -76.080000 |
| 2175 | TIERRA BLANCA              | [26117170] | 4.433333  | -76.150000 |
| 3229 | MAJAGUAL FLORI HACIENDA    | [25020640] | 8.533333  | -74.616667 |
| 1064 | QUEREMAL                   | [53100040] | 3.526250  | -76.708889 |
| 981  | NORMAL SANTA TERESA        | [11110010] | 6.763333  | -76.133611 |
| 846  | URRAO                      | [11070040] | 6.333333  | -76.166667 |
| 590  | GUACHACA 2                 | [15010030] | 11.100000 | -73.850000 |
| 625  | CORNEJO                    | [16027100] | 7.901389  | -72.633889 |
| 3185 | EUROPA LA                  | [28025060] | 9.933333  | -73.350000 |
| 1737 | PENITAS                    | [54097010] | 4.290500  | -77.024361 |
| 705  | MESA LA                    | [16027090] | 7.933333  | -72.650000 |
| 3492 | SAN BASILIO                | [29030280] | 10.085833 | -75.200278 |
| 277  | VISTA HERMOSA              | [32075030] | 3.120389  | -73.754028 |
| 1154 | COLPUERTOS                 | [53115020] | 3.883333  | -77.066667 |
| 1126 | PUENTE CARRETERA           | [26017050] | 2.450000  | -76.550000 |
| 1252 | DOS MIL                    | [21197090] | 3.966667  | -74.450000 |
| 1839 | ALEGRIAS                   | [21250440] | 4.866667  | -74.933333 |
| 1318 | LLANO AZUL                 | [21100030] | 2.650000  | -75.400000 |
| 2928 | VICTORIA LA                | [25025130] | 8.333333  | -74.733333 |
| 1876 | PANDI                      | [21195060] | 4.192722  | -74.487417 |
| 3062 | ALTO CURICHE               | [56015020] | 7.050000  | -77.650000 |
| 4465 | LEÑA                       | [29040200] | 10.520000 | -74.890000 |
| 2083 | SAN JUANITO                | [21140100] | 3.423000  | -75.104639 |
| 1239 | ITA-BUGA                   | [26095220] | 3.916667  | -76.300000 |
| 2783 | ABREGO CENTRO ADMO         | [16055040] | 8.087222  | -73.223056 |
| 3884 | PUERTO BARCO-GABARRA - AUT | [16067010] | 9.003611  | -72.900000 |
| 2702 | TOLUVIEJO                  | [13097010] | 9.437000  | -75.439000 |
| 4349 | PRESA AY GRANDE            | [29035030] | 9.880000  | -75.330000 |
| 2976 | REBOSADERO                 | [29030300] | 9.883333  | -75.250000 |
| 3176 | NISPERO EL                 | [29030310] | 9.933889  | -75.417500 |

|      |                                      |           |            |
|------|--------------------------------------|-----------|------------|
| 2600 | VEGAS LAS [16057010]                 | 8.030500  | -73.218139 |
| 2864 | SILVANO EL [29030350]                | 10.450000 | -74.966667 |
| 3457 | GALLEGO [29040390]                   | 10.616667 | -75.000000 |
| 1897 | MESA REDONDA [21110160]              | 3.118472  | -75.199028 |
| 2886 | PLOMO EL [16020290]                  | 8.166667  | -72.516667 |
| 4366 | MEDINA [35050010]                    | 4.510000  | -73.349997 |
| 1503 | GACHANECA [24017630]                 | 5.450000  | -73.550000 |
| 3126 | VACAS LAS [16020250]                 | 8.219167  | -72.524556 |
| 3927 | SAN JOSE [54025030]                  | 5.100000  | -76.600000 |
| 1667 | HATO BOGOTA [21110180]               | 3.036028  | -75.159722 |
| 1145 | PUENTE CARRETERA - AUT [26027200]    | 2.536750  | -76.558444 |
| 3843 | AEROPUERTO G ARTUNDUAGA [44035020]   | 1.589056  | -75.559556 |
| 2399 | SAN PEDRO [26100740]                 | 4.515639  | -76.040556 |
| 3262 | MALAMBITO [29045090]                 | 10.300000 | -74.900000 |
| 1101 | LOMA REDONDA [26010050]              | 2.366667  | -76.366667 |
| 1863 | CRUCERO EL VILLITA [24030760]        | 5.633333  | -72.916667 |
| 384  | CAMBULOS LOS [24037460]              | 5.750000  | -72.933333 |
| 3900 | CAPITOLIO [29060480]                 | 10.766667 | -74.233333 |
| 2471 | FLORENCIA C A [44035010]             | 1.616667  | -75.600000 |
| 2134 | MINA LA-EL VINAGRE [26010060]        | 2.333333  | -76.433333 |
| 1116 | BOCATOMA-VINAGRE [26017110]          | 2.416361  | -76.508778 |
| 3290 | SANTOS GUTIERREZ 1 [23187030]        | 7.533333  | -73.616667 |
| 2077 | DESPUES DEL SIFON [24037180]         | 5.783333  | -72.983333 |
| 3468 | MINA LA [28017110]                   | 10.686722 | -73.269833 |
| 4379 | ESCUELA AGRICOLA LA PLATA [21055020] | 2.380000  | -75.890000 |
| 1819 | CUCHARO EL [21090020]                | 2.855556  | -75.399194 |
| 2165 | CARAZA - AUT [35027100]              | 4.428639  | -74.010194 |
| 2162 | TIERRA BLANCA [26117110]             | 4.416667  | -76.100000 |
| 2321 | CAYETANA REJA [26117090]             | 4.583333  | -76.050000 |
| 2056 | CEREZO EL [24030510]                 | 5.699306  | -73.071750 |
| 2242 | DREN PPAL K0+00 [26117080]           | 4.616667  | -76.050000 |
| 1187 | MANZANARES [23020080]                | 5.265611  | -75.144083 |
| 3311 | BOCA DE LA CEIBA [13070070]          | 8.829917  | -75.856111 |
| 471  | HATICO D LOS INDIO [28010200]        | 10.860222 | -73.114167 |
| 2163 | TIERRA BLANCA [26117120]             | 4.416667  | -76.100000 |
| 1765 | EL EDEN - AUT [47017070]             | 1.106306  | -76.985000 |
| 646  | COTOCA ABAJO - AUT [13077060]        | 9.224444  | -75.834444 |
| 1128 | CAMP CEDELCA [26020440]              | 2.466667  | -76.666667 |
| 2203 | PALETARA [26010090]                  | 2.200000  | -76.466667 |
| 1110 | LAGUNA SAN RAFAEL [26010070]         | 2.383333  | -76.383333 |
| 2866 | PUENTE CARRETERA [28017070]          | 10.450000 | -73.150000 |
| 2390 | PARAISO EL [26090460]                | 3.649722  | -76.199722 |
| 1338 | MATEGUADUA [26100810]                | 4.028333  | -76.168528 |
| 397  | FARALLONES [26205030]                | 5.783333  | -75.616667 |
| 414  | CORRAL DE PIEDRA [28017080]          | 10.818917 | -73.055083 |
| 1673 | BUENOS AIRES [26027250]              | 3.036750  | -76.579222 |
| 2133 | SAN RAFAEL-LAGUNA [21057020]         | 2.316667  | -76.250000 |
| 2135 | LOMA REDONDA [21057010]              | 2.333333  | -76.266667 |
| 478  | VIRGINIA LA HACIENDA [29065060]      | 10.883333 | -74.183333 |
| 481  | SAN PEDRO D LA SIE [29065050]        | 10.900000 | -74.050000 |
| 3850 | CASERI [27045020]                    | 7.811722  | -74.935972 |
| 3373 | ALTO EL MUNECO [26240070]            | 7.600000  | -75.416667 |
| 924  | GUAYABITO [27015190]                 | 6.540389  | -75.146750 |
| 447  | SANTA MARGARITA [27035030]           | 7.733333  | -74.766667 |
| 930  | VEGA LA-TAB RUBIOS [26235020]        | 6.533333  | -75.800000 |

|      |                           |            |           |            |
|------|---------------------------|------------|-----------|------------|
| 3364 | CACERES                   | [26250030] | 7.579056  | -75.347833 |
| 3283 | ALTO DEL INDIO            | [27040020] | 7.531000  | -74.952750 |
| 2198 | PALETARA                  | [26017080] | 2.201806  | -76.492139 |
| 514  | ESMERALDA LA              | [27040030] | 7.751111  | -74.853056 |
| 4086 | CHALET GUAMUES            | [47010040] | 1.150000  | -77.116667 |
| 443  | UNION LA HACIENDA         | [26240050] | 7.716667  | -75.350000 |
| 1122 | SATE                      | [26020180] | 2.496250  | -76.638361 |
| 2604 | PATIO BONITO              | [25020540] | 8.031111  | -74.706111 |
| 1129 | PUENTE CARRETERA          | [26027220] | 2.500000  | -76.666667 |
| 521  | AMACERI                   | [27030060] | 7.750000  | -74.733333 |
| 4295 | ARAGON -                  | [27015110] | 6.780064  | -75.555719 |
| 3822 | LA ILUSION                | [25020530] | 8.025500  | -75.089750 |
| 694  | GUAMO EL                  | [27030040] | 7.904417  | -74.814000 |
| 601  | MANIZALES                 | [26240060] | 7.836667  | -75.415000 |
| 4488 | PUENTE ARAGON - AUT       | [26017060] | 2.200000  | -76.500000 |
| 2448 | LOMITAS                   | [26017070] | 2.189306  | -76.481833 |
| 2275 | ABEJORRAL                 | [26180160] | 5.785972  | -75.430417 |
| 2462 | GUASCA LA                 | [5201014]  | 1.594444  | -77.429444 |
| 430  | TRINIDAD LA HACIENDA      | [26250020] | 7.683333  | -75.233333 |
| 4311 | SANTA ISABEL              | [26255020] | 6.780000  | -75.560000 |
| 3165 | MARY LAND                 | [26245020] | 7.500000  | -75.416667 |
| 3167 | MONTES NEGROS             | [27035010] | 7.500000  | -74.716667 |
| 610  | GUARUMO-LA LUCHA          | [26240100] | 7.862917  | -75.214917 |
| 1036 | UNION LA                  | [26180170] | 5.998333  | -75.381389 |
| 2675 | MONEDA LA HACIENDA        | [25020370] | 8.036667  | -74.942222 |
| 3428 | CHARCON LIBERIA           | [27025020] | 7.383333  | -75.000000 |
| 3101 | CRUZADA LA                | [27030080] | 7.068056  | -74.715056 |
| 1130 | CAMP KM-48                | [21050080] | 2.500000  | -76.200000 |
| 3345 | BOSQUE EL                 | [27030090] | 7.319306  | -74.839333 |
| 1764 | GABRIEL LOPEZ             | [26020190] | 2.509750  | -76.289056 |
| 2912 | ITUANGO                   | [26225010] | 7.200000  | -75.733333 |
| 1001 | MESOPOTAMIA               | [26185020] | 5.886361  | -75.318639 |
| 1621 | SONSON                    | [26180180] | 5.715250  | -75.294500 |
| 1044 | CONCORDIA                 | [26215010] | 6.039556  | -75.919528 |
| 3985 | PALETARA                  | [26010080] | 2.200000  | -76.466667 |
| 977  | PIUNTI HACIENDA           | [26225040] | 6.729500  | -75.912972 |
| 769  | TIGRE EL                  | [23100030] | 6.840472  | -74.785667 |
| 412  | PRADO SEVILLA             | [29065030] | 10.764167 | -74.154722 |
| 2854 | PIEDECUESTA GRANJA        | [23190700] | 6.993333  | -73.067778 |
| 4479 | VIRGEN LA                 | [26147050] | 5.240000  | -75.810000 |
| 3159 | ZARAGOZA                  | [27030210] | 7.486222  | -74.872389 |
| 1497 | INSTITUCION LOS FUNDADORE | [26175020] | 5.433333  | -75.716667 |
| 3340 | BOQUETE EL                | [27035020] | 7.133333  | -74.650000 |
| 2053 | ITA ANDES                 | [26195020] | 5.691000  | -75.880222 |
| 2775 | MONTEFRIO                 | [27025010] | 6.950000  | -75.200000 |
| 3414 | TENCHE LA RISARALD        | [27020160] | 7.350000  | -75.033333 |
| 1047 | MESETA LA-SENA            | [27010790] | 6.033333  | -75.616667 |
| 788  | SANTA HELENA              | [27010810] | 6.196889  | -75.516750 |
| 782  | CHUSCAL EL                | [27010770] | 6.178333  | -75.705083 |
| 1655 | AGUADAS                   | [26180190] | 5.600028  | -75.451194 |
| 869  | MESETA LA SN PEDRO        | [27010800] | 6.399722  | -75.607222 |
| 2466 | BOCATOMA 1                | [44037120] | 1.649639  | -75.642583 |
| 1373 | SAN FELIX                 | [26185040] | 5.372944  | -75.375333 |
| 929  | SAN ISIDRO                | [27010830] | 6.563222  | -75.515750 |
| 1277 | SAN CLEMENTE              | [26140110] | 5.317861  | -75.787667 |



|      |                               |           |            |
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| 3677 | UNIVERSIDAD [5204701]         | 1.234333  | -77.292944 |
| 3450 | VILLANUEVA [28010340]         | 10.615833 | -72.981944 |
| 856  | BOQUERON [27010780]           | 6.350000  | -75.683333 |
| 1384 | SALAMINA CONC BARC [26160080] | 5.395444  | -75.489306 |
| 3097 | PUENTE MOSCA [28017090]       | 10.550000 | -73.083333 |
| 960  | RIO NUEVO [23117010]          | 6.633333  | -74.333333 |
| 1815 | PACORA PLAZA FERIA [26160090] | 5.522444  | -75.455083 |
| 852  | CUCHILLA LA [27010820]        | 6.368333  | -75.453611 |
| 324  | MERCEDES - AUT [21205660]     | 4.581889  | -74.526611 |
| 293  | BRASILIA [26197020]           | 5.825444  | -75.935333 |
| 477  | PORVENIR [28010380]           | 10.850000 | -72.933333 |
| 2360 | DIQUE EL [26170190]           | 5.803861  | -75.723611 |
| 1949 | PRADERA LA [26170170]         | 5.533333  | -75.666667 |
| 3952 | NACIONAL LA GRANJA [26170160] | 5.716667  | -75.716667 |
| 355  | RECUERDO EL [26130200]        | 4.962417  | -75.741667 |
| 1096 | CRISTALINA LA [26160120]      | 5.192194  | -75.435778 |
| 2003 | POTREROS [26130170]           | 4.885556  | -75.558056 |
| 3997 | SAN ANTONIO BRASIL [26197040] | 5.833333  | -75.950000 |
| 3702 | NEIRA [26160100]              | 5.163167  | -75.518444 |
| 1924 | SAN ISIDRO [26130180]         | 4.800972  | -75.858333 |
| 346  | PAPAYAL [26150150]            | 4.951667  | -75.489722 |
| 3084 | BOCATOMA [28017100]           | 10.500000 | -73.283333 |
| 358  | VILLA NUEVA [26110120]        | 4.971083  | -76.038528 |
| 2276 | PUEBLORRICO [26170150]        | 5.791056  | -75.838806 |
| 1849 | BOCACHE [26167050]            | 5.616667  | -75.566667 |
| 3948 | BOQUERON [26130190]           | 4.833333  | -75.666667 |
| 3293 | CASA NUEVA [23180030]         | 7.533333  | -73.550000 |
| 3415 | MONTEVERDE [27030230]         | 7.350000  | -74.650000 |
| 3631 | LA ESPERANZA [26150160]       | 5.017833  | -75.356556 |
| 1596 | HATO LAGUNA [35097030]        | 5.585833  | -72.898500 |
| 717  | OTRAMINA [26200120]           | 6.072944  | -75.794583 |
| 3323 | BRICENO [26230160]            | 7.105278  | -75.511667 |
| 3379 | CARMEN EL HACIENDA [27020170] | 7.147194  | -75.079778 |
| 727  | HERRADURA LA [26210080]       | 6.099222  | -75.873972 |
| 3419 | PUERTO RAUDAL [26250060]      | 7.369917  | -75.327611 |
| 1616 | NEVADO DEL RUIZ [26155130]    | 4.950000  | -75.350000 |
| 2021 | PILAS LAS [24037250]          | 5.666667  | -73.266667 |
| 2869 | YARUMAL [27020190]            | 6.955972  | -75.415556 |
| 1977 | CARAMANTA [26170180]          | 5.547833  | -75.641306 |
| 1981 | SANTA BARBARA [26190100]      | 5.563972  | -75.900083 |
| 2834 | CUEVA SANTA [27010890]        | 6.959000  | -75.038361 |
| 4043 | ANORI [27020180]              | 7.071917  | -75.150528 |
| 374  | BETANIA-LAS GUACAS [26190090] | 5.755000  | -75.975528 |
| 381  | MANSA LA [26190130]           | 5.750000  | -76.100000 |
| 1021 | MONTEBELLO [26180200]         | 5.950833  | -75.536833 |
| 2760 | SAN ANDRES [26230110]         | 6.909833  | -75.669861 |
| 2759 | AMALFI [27010850]             | 6.905556  | -75.077222 |
| 2756 | ANGOSTURA [27020210]          | 6.883056  | -75.332472 |
| 939  | SAN PABLO [27010840]          | 6.602000  | -75.246528 |
| 2212 | TERMALES PILIMBALA [26020320] | 2.363083  | -76.404056 |
| 950  | OLAYA [26230010]              | 6.628722  | -75.810889 |
| 958  | GOMEZ PLATA [27010900]        | 6.677806  | -75.219806 |
| 966  | MONTANITAS [27010880]         | 6.702861  | -75.392222 |
| 973  | NORMANDIA HACIENDA [27010860] | 6.700000  | -75.116667 |
| 870  | CAICEDO [26210070]            | 6.405972  | -75.981278 |

|      |                      |            |           |            |
|------|----------------------|------------|-----------|------------|
| 835  | ANZA                 | [26210090] | 6.303139  | -75.859250 |
| 971  | PLACITA LA           | [26230140] | 6.720889  | -75.758056 |
| 3930 | ESPERANZA LA         | [23025020] | 5.262639  | -74.729139 |
| 744  | BRECHON EL           | [11070130] | 6.133333  | -76.033333 |
| 922  | LA GALERA - AUT      | [26217010] | 6.554972  | -75.864194 |
| 1483 | FLORIDA LA           | [21205670] | 4.770889  | -74.437639 |
| 2872 | CUMBRE LA            | [26220050] | 7.033333  | -75.933333 |
| 942  | BELMIRA              | [27010870] | 6.609167  | -75.668333 |
| 766  | LLANOS D CUIBA LOS   | [27020220] | 6.813611  | -75.483861 |
| 2757 | CRUCES ARRIBA        | [26230130] | 6.887194  | -75.609611 |
| 3102 | CEDENO               | [27020200] | 7.070722  | -75.355583 |
| 2169 | AEROPUERTO PERALES   | [21245040] | 4.424139  | -75.139417 |
| 959  | GIRALDO              | [26220090] | 6.688056  | -75.957222 |
| 791  | CHITA - AUT          | [24035250] | 6.188333  | -72.466333 |
| 1003 | PALERMO              | [24010870] | 5.899528  | -73.196194 |
| 1972 | AQUITANIA            | [35095010] | 5.533333  | -72.883333 |
| 1292 | RONDON               | [35085020] | 5.358417  | -73.203611 |
| 2392 | TENERIFE             | [26090710] | 3.616667  | -76.033333 |
| 3917 | PIEDRAS BLANCAS      | [27015120] | 6.300000  | -75.500000 |
| 1699 | CONDOR EL            | [22027010] | 3.328278  | -75.613111 |
| 2305 | TENERIFE             | [26095080] | 3.729972  | -76.074778 |
| 3486 | LIBANO EL            | [28020580] | 10.033333 | -73.250000 |
| 2349 | CASA DE MAQUINAS     | [26027270] | 2.466667  | -76.583333 |
| 3248 | PLACER EL            | [26100690] | 3.878944  | -76.100556 |
| 1517 | CABUYO 1 EL          | [21217110] | 4.283333  | -75.033333 |
| 653  | MAGANGUE             | [25025110] | 9.233333  | -74.750000 |
| 3474 | MINAS LAS            | [28010260] | 10.683333 | -73.283333 |
| 1234 | PUENTE ORTEGA        | [22067010] | 3.922583  | -75.183056 |
| 4139 | TUSCOLO EL           | [23060140] | 5.069444  | -74.608056 |
| 1120 | PUENTE CHAMEZA - AUT | [24037290] | 5.759889  | -72.906528 |
| 2483 | DONCELLO             | [46037040] | 1.691278  | -75.292389 |
| 1842 | CINTAS LAS           | [35190010] | 5.614139  | -72.867667 |
| 3613 | ESMERALDA LA         | [46037010] | 1.745722  | -75.218167 |
| 1591 | TUNEL EL             | [35095030] | 5.574914  | -72.947694 |
| 1340 | PUERTO FRAZADAS      | [26100350] | 4.054361  | -75.994750 |
| 2430 | SUBESTACION ELECTR   | [23010110] | 5.183333  | -74.866667 |
| 1601 | HORQUETA LA          | [35197010] | 5.583333  | -72.816667 |
| 2181 | POTOSI HACIENDA      | [21250450] | 5.053028  | -74.882472 |
| 1622 | PUENTE COLONIAL      | [24037300] | 5.716881  | -72.849667 |
| 4123 | BOCATOMA N 1         | [44037070] | 1.566667  | -75.283333 |
| 1652 | INFIERNO EL          | [24017620] | 5.588500  | -73.512556 |
| 2677 | MARCELITA            | [16057020] | 8.044167  | -73.191944 |
| 2328 | BOCATOMA             | [23017020] | 5.210278  | -74.802756 |
| 1978 | CRIADERO             | [35097050] | 5.557750  | -72.879889 |
| 2333 | PAILA LA             | [26167060] | 5.232083  | -75.644722 |
| 16   | FLORENCIA-HACHA      | [44037060] | 1.621167  | -75.619222 |
| 2351 | PUENTE LOPEZ         | [23017030] | 5.203889  | -74.741111 |
| 1748 | ALCAZAR EL           | [26100400] | 4.310000  | -76.020000 |
| 4381 | MACAGUAL             | [44035030] | 1.500000  | -75.660000 |
| 2476 | BOCATOMA             | [46037020] | 1.666667  | -75.216667 |
| 2376 | CORRALES             | [24037310] | 5.833333  | -72.866667 |
| 3749 | VENECIA              | [44037050] | 1.563111  | -75.529306 |
| 1985 | DESAGUADERO          | [35097040] | 5.550000  | -72.916667 |
| 3874 | LARANDIA             | [44037090] | 1.489083  | -75.493250 |
| 3741 | MORELIA - AUT        | [44037080] | 1.497333  | -75.724972 |

|      |                             |            |           |            |
|------|-----------------------------|------------|-----------|------------|
| 4466 | MERCADERES                  | [52025030] | 1.760000  | -77.160000 |
| 3981 | PAISPAMBA                   | [52010090] | 2.300000  | -76.616667 |
| 2474 | PRESA HIDROMAYO             | [52030020] | 1.650000  | -77.000000 |
| 3619 | SANTIAGO                    | [52020070] | 1.814167  | -76.782889 |
| 3618 | ACEVEDO                     | [21030080] | 1.813611  | -75.942222 |
| 1829 | MONDOMO                     | [26020250] | 2.903694  | -76.546972 |
| 3738 | ALTAMIRA                    | [21025020] | 2.066667  | -75.800000 |
| 3756 | GUACHICONO                  | [52020010] | 2.046389  | -77.003056 |
| 3744 | ITARCA                      | [44037100] | 1.527722  | -75.481722 |
| 3708 | PATIA                       | [5202006]  | 2.033333  | -77.050000 |
| 2030 | AMPARO EL                   | [26020200] | 2.961167  | -76.489194 |
| 3706 | BALBOA                      | [52010020] | 2.032806  | -77.221694 |
| 3641 | INSFOPAL                    | [21010110] | 1.844917  | -76.074417 |
| 3607 | PALESTINA                   | [21010100] | 1.724833  | -76.133333 |
| 2463 | CRUZ LA                     | [52030090] | 1.595278  | -76.834167 |
| 3343 | VETAS-EL POZO               | [23190450] | 7.308889  | -72.878333 |
| 3697 | VEGA LA                     | [52020020] | 2.005000  | -76.781667 |
| 2528 | TRES ESQUINAS               |            | 0.737500  | -75.236111 |
| 690  | SAN PABLO TOLIMA - AUT      | [21167060] | 3.926667  | -74.656944 |
| 3612 | SAN MARCOS - AUT            | [21037020] | 1.752278  | -75.945417 |
| 1201 | NATAGA - AUT                | [21050090] | 2.551444  | -75.806500 |
| 3656 | CASCADA SIMON BOLIVAR - AUT | [21017030] | 1.873500  | -76.231722 |
| 4480 | ALGECIRAS - AUT             | [21105030] | 2.520000  | -75.319997 |
| 23   | SAN AGUSTIN - AUT           | [21017020] | 1.870278  | -76.231611 |
| 2445 | PALETARA                    | [26015020] | 2.166667  | -75.450000 |
| 1419 | PUENTE CUNDAY               | [21167050] | 4.059361  | -74.688278 |
| 2190 | AEROPUERTO CONDOTO          | [54025020] | 5.073500  | -76.676667 |
| 2357 | TESALIA 2                   | [21050290] | 2.491278  | -75.728500 |
| 405  | PIZARRA LA                  | [28010270] | 10.766667 | -73.016667 |
| 1409 | PITAYO                      | [26045030] | 2.733333  | -76.333333 |
| 2332 | QUINCHOS LOS                | [35070060] | 5.219556  | -73.347917 |
| 4469 | GABRIEL LOPEZ               | [26025070] | 2.509750  | -76.289056 |
| 888  | PENALTA                     | [26237020] | 6.462611  | -75.756306 |
| 4118 | RESINA                      | [21035020] | 1.913889  | -75.679000 |
| 1321 | IQUIRA                      | [21085020] | 2.652194  | -75.629250 |
| 1347 | CALICHAL EL BOSQUE          | [22077070] | 4.054250  | -75.388083 |
| 406  | PIZARRA LA                  | [15075050] | 10.766667 | -73.000000 |
| 1416 | MORALES                     | [26020220] | 2.769417  | -76.624194 |
| 3647 | PITALITO 1                  | [21017010] | 1.866667  | -76.033333 |
| 379  | MONGUA                      | [24030560] | 5.758389  | -72.794500 |
| 2020 | FIRAVITOBA                  | [24030540] | 5.664528  | -72.978278 |
| 2055 | SAN ANTONIO                 | [24030530] | 5.698722  | -73.234222 |
| 2771 | GARZON                      | [21060080] | 2.190083  | -75.605056 |
| 1015 | PENALISA                    | [26210110] | 5.934917  | -75.861167 |
| 1073 | CANDELARIA                  | [26117070] | 4.466667  | -76.083333 |
| 3696 | SALADO BLANCO               | [21017040] | 1.988111  | -76.012028 |
| 388  | LA SIBERIA                  | [24037320] | 5.766733  | -73.108722 |
| 2105 | BOMBA 3                     | [26117040] | 4.483333  | -76.100000 |
| 1217 | HOBO EL                     | [21060090] | 2.574806  | -75.435528 |
| 1105 | GIGANTE 2                   | [21060070] | 2.388917  | -75.538083 |
| 2907 | NARANJO EL                  | [23190440] | 7.205000  | -73.299722 |
| 1210 | INZA                        | [21050110] | 2.548194  | -76.063944 |
| 3974 | SAN PEDRO                   | [24030550] | 5.566667  | -73.200000 |
| 1299 | ROSARIO EL                  | [26020230] | 2.606556  | -76.756083 |
| 3929 | MUNCHIQUE                   | [26035020] | 2.516667  | -76.966667 |

|      |                           |            |           |            |
|------|---------------------------|------------|-----------|------------|
| 2131 | ANTENA TV                 | [21040020] | 2.334028  | -75.728472 |
| 3651 | VALENCIA                  | [44015030] | 1.900417  | -76.668750 |
| 573  | FLORES LAS                | [29045120] | 11.040000 | -74.820833 |
| 2451 | CHUNGACASPI               | [47010050] | 1.134056  | -76.930250 |
| 3567 | TERMALES                  | [26130020] | 4.844167  | -75.558056 |
| 3369 | PAPAYAL                   | [23190460] | 7.615556  | -73.648889 |
| 491  | LOMITAS LAS               | [15060060] | 10.935167 | -72.684667 |
| 408  | JUGUETE EL                | [15060070] | 10.786000 | -72.768361 |
| 3169 | OCANA                     | [16050050] | 8.233333  | -73.366667 |
| 1412 | PIRAVANTE HACIENDA        | [21100040] | 2.733333  | -75.283333 |
| 2787 | ANGELES LOS               | [23190480] | 8.098889  | -73.507500 |
| 1632 | TOEZ                      | [21055040] | 2.816667  | -76.083333 |
| 2840 | PUENTE PESCADO            | [37047020] | 6.983333  | -71.966667 |
| 395  | VERTEDERO PAIPA           | [24037330] | 5.766667  | -73.116667 |
| 515  | SAN ALBERTO               | [23190500] | 7.759722  | -73.388333 |
| 2421 | CABRERA LA                | [23060270] | 5.133333  | -74.150000 |
| 716  | APOSENTOS                 | [24030570] | 6.062083  | -72.635333 |
| 504  | PUEBLITO EL HACIENDA      | [15065020] | 10.983333 | -73.116667 |
| 572  | LAGUNITAS                 | [15060040] | 11.034361 | -72.877528 |
| 3471 | PAMPLONA                  | [28010280] | 10.650000 | -72.850000 |
| 599  | JUANA VIEJA               | [15040020] | 11.116667 | -73.050000 |
| 2865 | NUEVO HORIZONTE           | [28030200] | 10.450000 | -73.233333 |
| 3587 | NEMIZAUQUE                | [24027030] | 6.229444  | -73.171667 |
| 2124 | VEGA EL SALADO - AUT      | [21057050] | 2.331444  | -75.942167 |
| 315  | PARQUE ARQUEOLOGICO - AUT | [21015030] | 1.888472  | -76.294972 |
| 3012 | CACHIRI - AUT             | [23195200] | 7.473889  | -72.991111 |
| 2927 | ESPIÑO EL                 | [23197320] | 7.216667  | -73.050000 |
| 740  | JERICO                    | [24030580] | 6.141472  | -72.593333 |
| 4001 | SAJANDI                   | [52025040] | 2.083333  | -77.016667 |
| 2899 | SAN JOAQUIN               | [16020270] | 8.200000  | -72.500000 |
| 2572 | ITACA                     | [15070170] | 11.433333 | -72.550000 |
| 2571 | AEROPUERTO MAICAO         | [15085010] | 11.400000 | -72.250000 |
| 2567 | ESCUELA CEURA             | [15070160] | 11.437750 | -72.469972 |
| 912  | PUENTE CABRA              | [24027040] | 6.529167  | -73.007778 |
| 67   | PUENTE RICAURTE - AUT     | [21057030] | 2.520000  | -75.960000 |
| 1221 | BOCATOMA                  | [21057040] | 2.566667  | -76.066667 |
| 1375 | PUENTE CERTEGUI           | [11037020] | 5.374750  | -76.613250 |
| 1411 | TALAGA EL CRUCERO         | [21050120] | 2.733333  | -76.066667 |
| 2292 | ZULUAGA                   | [21065040] | 2.252500  | -75.529444 |
| 1174 | SAN FRANCISCO             | [26110160] | 4.684861  | -76.035722 |
| 503  | CRUZ LA HACIENDA          | [15060030] | 10.966667 | -72.766667 |
| 2166 | ISUGU                     | [26110230] | 4.418667  | -76.100528 |
| 1811 | REINA LA                  | [26137120] | 4.866667  | -75.616667 |
| 3621 | SEVILLA                   | [21015020] | 1.824833  | -76.130278 |
| 3367 | CAOBO EL                  | [23190510] | 7.595556  | -73.327500 |
| 3622 | BOLIVAR                   | [52025010] | 1.829944  | -77.004028 |
| 3304 | PALMERAS HACIENDA         | [23190470] | 7.550000  | -73.533333 |
| 2200 | JAGUA LA                  | [21030090] | 2.202944  | -75.677722 |
| 4380 | SANTA LETICIA             | [21055030] | 2.240000  | -76.160000 |
| 2871 | LLANO GRANDE - AUT        | [23195110] | 7.025556  | -73.167222 |
| 2653 | SIAPANA                   | [15080040] | 12.069472 | -71.318500 |
| 1208 | CASIL EL                  | [21107030] | 2.544778  | -75.301556 |
| 3509 | CAMELIA LA                | [26120120] | 4.331556  | -75.834833 |
| 2661 | NAZARETH                  | [15085020] | 12.178889 | -71.283889 |
| 1415 | HIDROELECTRICA            | [21087040] | 2.710000  | -75.570000 |

|      |                      |            |           |            |
|------|----------------------|------------|-----------|------------|
| 2732 | NUEVO AMBIENTE       | [15070020] | 12.343917 | -71.819194 |
| 2660 | SIPANAO              | [15087020] | 12.133333 | -71.250000 |
| 4385 | PAICOL - AUT         | [21057060] | 2.460000  | -75.760000 |
| 2733 | PUERTO ESTRELLA      | [15080010] | 12.345306 | -71.311972 |
| 2659 | SIPANAO              | [15080020] | 12.119361 | -71.268694 |
| 2638 | RANCHO GRANDE        | [15085040] | 11.686056 | -71.833056 |
| 2728 | BUENOS AIRES         | [15070060] | 12.273417 | -71.415889 |
| 252  | AEROPUERTO A BONILLA | [26075040] | 3.536689  | -76.386639 |
| 2878 | LOMA CORREDOR        | [23197380] | 8.116667  | -73.783333 |
| 608  | VIJAGUAL             | [23187060] | 7.850000  | -73.816667 |
| 2663 | KAURAQUIMANA         | [15070080] | 12.218361 | -71.458694 |
| 2645 | HUIMPECHT            | [15080050] | 11.633333 | -72.000000 |
| 2658 | TAPARAJIN            | [15080030] | 12.066667 | -71.566667 |
| 3143 | SOGAMOSO ABAJO-MAL   | [23187070] | 7.250000  | -73.933333 |
| 4463 | CARRIZAL             | [15070100] | 12.000000 | -72.180000 |
| 1659 | SAN CRISTOBAL        | [24035300] | 5.596917  | -73.187722 |
| 2664 | CARIMAYA             | [15070050] | 12.200000 | -71.733333 |
| 4014 | JASAY                | [15080080] | 11.790417 | -71.964722 |
| 2650 | SILLAMANA            | [15080070] | 11.899417 | -71.515889 |
| 2577 | CARACAS HACIENDA     | [15070150] | 11.482139 | -72.558972 |
| 361  | GUAYATA LA GRANJA    | [35070110] | 4.976083  | -73.499306 |
| 2655 | PERPANA              | [15070090] | 12.088556 | -71.819306 |
| 4085 | SOGAMOSO ARRIBA-CO   | [23157040] | 7.183333  | -73.916667 |
| 1402 | BOCATOMA             | [21087050] | 2.705167  | -75.620694 |
| 2913 | SOGAMOSO             | [24057020] | 7.200000  | -73.866667 |
| 736  | SARAVENA - AUT       | [37045010] | 6.946389  | -71.890556 |
| 2022 | SARA LA              | [29060230] | 10.836222 | -74.161028 |
| 833  | PUENTE LLANO         | [24027050] | 6.285000  | -73.126111 |
| 3227 | PLAYA LA             | [11155010] | 8.533333  | -77.283333 |
| 2029 | SOCORRO EL           | [21127020] | 2.954250  | -75.521056 |
| 1536 | COROZAL              | [26120130] | 4.402778  | -75.915417 |
| 2639 | PAJARO EL            | [15070130] | 11.709472 | -72.676417 |
| 1548 | SUIZA LA             | [26147110] | 4.916667  | -75.883333 |
| 3298 | RIO NUEVO            | [25027630] | 8.809722  | -74.254444 |
| 2654 | SANTANA URRACH       | [15070010] | 12.086583 | -72.050194 |
| 2565 | CARRAIPIA            | [15087010] | 11.234111 | -72.358806 |
| 2314 | PALMAR EL            | [21210220] | 4.580111  | -75.325667 |
| 2656 | IRRAIPA              | [15070070] | 12.126361 | -71.952278 |
| 2657 | AHUYAMA              | [15070120] | 11.866081 | -72.278828 |
| 2541 | PUERRES              | [52050120] | 0.888250  | -77.502917 |
| 2742 | PORTETE JAYARIMA     | [15070040] | 12.350000 | -71.716667 |
| 1734 | SAN LUIS             | [21130040] | 3.080639  | -75.484667 |
| 3432 | RIO VIEJO            | [23207060] | 8.583333  | -73.833333 |
| 2666 | CABO DE LA VELA      | [15075020] | 12.216667 | -72.183333 |
| 2637 | MAYAPO               | [15070140] | 11.650278 | -72.786750 |
| 2648 | JOJONCITO            | [15070110] | 11.811444 | -71.965306 |
| 3901 | CHIMBORAZO           | [29060370] | 10.733333 | -74.333333 |
| 1080 | JUNTAS LAS           | [21210020] | 4.556306  | -75.321639 |
| 756  | PUENTE FERROCARRIL   | [23147020] | 6.773611  | -73.935000 |
| 4020 | BAHIA HONDA          | [15075010] | 12.313886 | -71.796447 |
| 898  | PUENTE ARCO          | [24027060] | 6.478611  | -73.073611 |
| 1310 | PUENTE MOMICO        | [21077010] | 2.616667  | -75.483333 |
| 1030 | CERINZA              | [24030590] | 5.962250  | -72.938500 |
| 30   | PUENTE BALSEADERO    | [21047010] | 2.232361  | -75.648556 |
| 693  | SANTA MARIA - AUT    | [21127030] | 2.971778  | -75.592444 |

|      |                        |            |           |            |
|------|------------------------|------------|-----------|------------|
| 3871 | CAMPAMENTO             | [26197010] | 5.681333  | -75.875583 |
| 3776 | REMOLINO EL            | [26197030] | 5.856417  | -75.914500 |
| 529  | PALMIRA HACIENDA - AUT | [26247010] | 7.796778  | -75.372528 |
| 2564 | REMEDIOS LOS           | [15060010] | 11.381778 | -72.913500 |
| 2566 | CAMARONES              | [15050010] | 11.428833 | -73.052722 |
| 1506 | SAN MARCOS             | [26105150] | 4.238917  | -76.033056 |
| 4078 | PALITO                 | [25020570] | 8.950000  | -75.033333 |
| 1990 | SANTA MARIA            | [21125010] | 2.935694  | -75.589056 |
| 845  | CIMITARRA              | [23120180] | 6.316667  | -73.950000 |
| 1712 | GUAMAL EL              | [22077060] | 4.171361  | -75.274500 |
| 4021 | SAN FRANCISCO          | [15070030] | 12.316667 | -71.500000 |
| 1726 | HATO MILAGRO           | [21110040] | 3.074889  | -75.168417 |
| 3943 | SAN PEDRO              | [21130070] | 3.250000  | -75.450000 |
| 1775 | ESCALERAS              | [35097070] | 5.491944  | -72.938500 |
| 3913 | ROSALES LOS HACIENDA   | [15035010] | 11.216667 | -73.450000 |
| 1046 | PUENTE SOTO            | [26207010] | 6.016667  | -75.816667 |
| 670  | ANCHO                  | [15037010] | 11.205056 | -73.461306 |
| 684  | BUENA FE LA            | [15065060] | 11.216667 | -72.833333 |
| 1425 | RIVERA-CUCOLANDIA      | [21110210] | 2.766667  | -75.233333 |
| 190  | LA CABANA - AUT        | [16057030] | 8.197806  | -73.318250 |
| 3886 | PUENTE ABREGO - AUT    | [16047010] | 8.043333  | -73.083056 |
| 162  | BOLOMBOLO              | [26207080] | 5.970000  | -75.840000 |
| 422  | CNO GRANDE             | [23197350] | 7.633333  | -73.583333 |
| 3087 | DORADA LA              | [28010390] | 10.500000 | -73.116667 |
| 2582 | DORADA LA              | [23190520] | 7.995556  | -73.439722 |
| 1831 | PALERMO                | [21127010] | 2.904083  | -75.443333 |
| 1822 | TOTUMO EL              | [21120090] | 2.870333  | -75.490972 |
| 2642 | RIOHACHA               | [15065080] | 11.533333 | -72.900000 |
| 3019 | APAVI                  | [26247030] | 7.470972  | -75.328028 |
| 1671 | BOCATOMA               | [21117040] | 3.033333  | -75.216667 |
| 2024 | PALACIO-VEGALARGA      | [21115100] | 2.942639  | -75.066389 |
| 1696 | LEGIOSA LA             | [21145070] | 3.311028  | -74.702889 |
| 3890 | QUINCE LETRAS - AUT    | [16057040] | 8.541111  | -73.246111 |
| 3867 | SILVANIA               |            | 4.403056  | -74.385306 |
| 1750 | NILO                   | [21190210] | 4.305889  | -74.648667 |
| 773  | PUENTE PESCADERO       | [24037350] | 6.800000  | -73.050000 |
| 2047 | SALERO EL              | [21190300] | 4.234528  | -74.606639 |
| 1890 | MELGAR                 | [21197100] | 4.200000  | -74.650000 |
| 4065 | PUENTE TARRA           | [16047020] | 8.588611  | -73.081111 |
| 1509 | ROVIRA 2               | [21180040] | 4.242500  | -75.242500 |
| 1243 | ORTEGA                 | [22060070] | 3.939167  | -75.219944 |
| 3260 | PARIS DE FRANCIA       | [28010370] | 10.307083 | -73.325444 |
| 1875 | VALLE DE SAN JUAN      | [21180210] | 4.191972  | -75.112889 |
| 1268 | LA BOCA                |            | 4.704278  | -73.477500 |
| 1179 | SANTA BARBARA          | [35067120] | 4.666667  | -73.516667 |
| 1438 | CORAZON EL             | [22070020] | 4.100000  | -75.333333 |
| 2765 | ALTO SATOCA            | [37047010] | 6.900000  | -71.816667 |
| 1341 | SUAREZ                 | [21180160] | 4.055944  | -74.841500 |
| 1231 | SAN ANTONIO QUINTA     | [22065040] | 3.906917  | -75.488083 |
| 2187 | CORINTO                | [26040250] | 3.179111  | -76.247694 |
| 703  | RIOGRANDE              | [12010140] | 7.933333  | -76.633333 |
| 516  | TORMENTO EL            | [12010010] | 7.766389  | -76.855278 |
| 2951 | ESTABLO EL             | [23187140] | 7.433333  | -73.483333 |
| 1713 | GALICIA                | [26100410] | 4.171889  | -76.056389 |
| 2076 | SAN RAFAEL             | [24037430] | 5.783333  | -73.000000 |

|      |                            |            |           |            |
|------|----------------------------|------------|-----------|------------|
| 1433 | PARDO                      | [26100700] | 4.087250  | -76.100806 |
| 2026 | CATALINA LA                | [26020160] | 2.945167  | -76.651750 |
| 409  | POLY LA                    | [29060220] | 10.816667 | -74.183333 |
| 2141 | GUACARI                    | [26090630] | 3.770139  | -76.331944 |
| 532  | VILLA DEL ROSARIO          | [16010010] | 7.817778  | -72.477778 |
| 3924 | COLEGIO EL                 | [26087100] | 3.466667  | -76.566667 |
| 2354 | SAN RAFAEL - AUT           | [24037190] | 5.807611  | -73.013806 |
| 340  | CARRASPOSO - AUT           | [21147030] | 3.327528  | -74.866917 |
| 1466 | PUENTE CARRETERA - AUT     | [21137030] | 3.263417  | -75.250972 |
| 1707 | CARMEN DE APICALA          | [21190290] | 4.161028  | -74.713111 |
| 2249 | CLARAVAL                   | [35060210] | 4.650250  | -73.641444 |
| 1354 | VEGA LA SAN JUAN           | [35060120] | 4.723306  | -73.470556 |
| 1537 | PUENTE CARRETERA           | [21217120] | 4.402861  | -75.292528 |
| 2247 | CORRALITOS                 | [21237040] | 4.646389  | -74.659444 |
| 1906 | BACHE                      | [21127040] | 3.166667  | -75.300000 |
| 3931 | PAJARITO VILLA MAR         | [35195040] | 5.283333  | -72.700000 |
| 3958 | MAMBITA                    | [35067140] | 4.783333  | -73.316667 |
| 1261 | PALOMAS LAS                | [35060140] | 4.704917  | -73.444889 |
| 1260 | TEMBLADARES                | [35060150] | 4.704861  | -73.665278 |
| 1100 | PAEZ                       | [35085030] | 5.100000  | -73.050000 |
| 1366 | VEGA LA                    | [35067100] | 4.733333  | -73.483333 |
| 2300 | ANCHIQUE                   | [21137040] | 3.567472  | -75.141972 |
| 1486 | TRES ESQUINAS              | [35060230] | 4.781417  | -73.489056 |
| 1430 | OSPINA PEREZ               | [21190240] | 4.081611  | -74.488722 |
| 2157 | JUNTAS                     | [21217190] | 4.600000  | -75.350000 |
| 1792 | PUENTE CARRETERA           | [35047030] | 4.312450  | -73.412381 |
| 2406 | TRES ESQUINAS              | [21217130] | 4.533333  | -75.333333 |
| 2011 | SITIO PRESA                | [35070450] | 4.900000  | -73.300000 |
| 2004 | TASAJERAS                  | [35060170] | 4.885694  | -73.600361 |
| 332  | PIEDRAS - AUT              | [21227010] | 4.535225  | -74.880531 |
| 2285 | PUENTE SAN FRANCISCO - AUT | [21257070] | 5.019917  | -74.890889 |
| 1454 | POTRERITO                  | [26055050] | 3.243194  | -76.592417 |
| 423  | IDEMA-MONTECRISANTO        | [12015030] | 7.650000  | -76.683333 |
| 1161 | LOZANIA                    | [21165030] | 3.897917  | -74.771528 |
| 1257 | BOCATOMA                   | [21247050] | 4.692056  | -74.958139 |
| 1899 | GAITANIA                   | [22027020] | 3.126056  | -75.655694 |
| 2750 | ANIL EL                    | [11117010] | 6.873889  | -76.149583 |
| 510  | ESCUELA AGRICOLA CACHIRA   | [23195180] | 7.735278  | -73.051667 |
| 2850 | TERESITA LA                | [11125010] | 7.000000  | -77.500000 |
| 3314 | ARBOLETES                  | [12045010] | 8.846944  | -76.431944 |
| 918  | PASO REAL                  | [26207090] | 6.516667  | -75.816667 |
| 1894 | PLAYA LA                   | [26125110] | 4.216667  | -75.766667 |
| 75   | PUENTE LLERAS - AUT        | [35017020] | 4.103019  | -72.936383 |
| 4319 | CARMELO EL                 | [12030020] | 8.620000  | -76.380000 |
| 1675 | CANAL FORTALECILLA         | [21117070] | 3.033333  | -75.216667 |
| 3433 | VILLARTEAGA                | [12015010] | 7.334667  | -76.486028 |
| 1172 | ALCALA                     | [26120150] | 4.676472  | -75.786306 |
| 3934 | BOCATOMA                   | [21247040] | 4.692056  | -74.958139 |
| 1518 | GIRARDOT 2                 | [21237030] | 4.283333  | -74.816667 |
| 3937 | ARGELIA EL RECREO          | [54035020] | 4.733333  | -76.116667 |
| 3362 | HONDA LA                   | [11130020] | 7.576667  | -77.125556 |
| 606  | SAUTATA                    | [11135010] | 7.850000  | -77.116667 |
| 4027 | MURINDO                    | [11105010] | 6.966667  | -76.750000 |
| 3040 | SAN JUAN DE URABA          | [12030010] | 8.755222  | -76.533056 |
| 2025 | SALVAJINA LA               | [26030150] | 2.943333  | -76.706944 |

|      |                                   |            |           |            |
|------|-----------------------------------|------------|-----------|------------|
| 1888 | SILENCIOSO EL                     | [26050270] | 3.115639  | -76.719417 |
| 1802 | AMOLADERO EL                      | [35060200] | 4.857972  | -73.745389 |
| 2377 | OCHO EL                           | [11027020] | 5.850000  | -76.250000 |
| 2532 | PUERTO ASIS                       | [47015050] | 0.500000  | -76.516667 |
| 3897 | QUINTA COBRA                      | [21257080] | 4.966667  | -74.933333 |
| 4395 | PUEBLO BELLO                      | [12020010] | 8.199997  | -76.520000 |
| 3225 | CARIBIA                           | [12025020] | 8.500000  | -76.683333 |
| 3420 | ISER PAMPLONA                     | [16015020] | 7.373111  | -72.645000 |
| 2324 | CARIMAGUA - AUT                   | [33035010] | 4.574417  | -71.340750 |
| 900  | GRANJA EXPERIOMENTAL EL NUS - AUT | [23085080] | 6.483583  | -74.836694 |
| 1435 | MORALIA                           | [26107140] | 4.083333  | -76.116667 |
| 2911 | BERLIN                            | [37017010] | 7.183333  | -72.916667 |
| 1644 | BAMBU EL                          | [35025040] | 4.116667  | -73.183333 |
| 1289 | TUPARRO BOCAS - TOMO              | [34035010] | 5.353139  | -67.858250 |
| 3140 | CARRIZAL 2                        | [23197420] | 7.233333  | -72.983333 |
| 2118 | TAPON EL                          | [34035020] | 5.112028  | -69.148389 |
| 11   | PITALITO 2 - AUT                  | [21017050] | 1.848833  | -76.052444 |
| 2060 | PLAYA LA                          | [24037420] | 5.683333  | -73.233333 |
| 253  | AEROPUERTO PUERTO CARRENO         | [38015030] | 6.182436  | -67.491222 |
| 2847 | TUNEBIA                           | [37035010] | 7.006111  | -72.115833 |
| 2378 | EMPODUITAMA                       | [24030610] | 5.850000  | -73.050000 |
| 3119 | VIGIA DE CURVARADO                | [11100010] | 7.083333  | -76.916667 |
| 3371 | VILLA LEIVA                       | [23187100] | 7.583333  | -73.600000 |
| 1335 | SAN JUAN                          | [21190270] | 4.031028  | -74.311167 |
| 2194 | AGUADA LA                         | [26040290] | 2.880528  | -76.407500 |
| 3058 | ARAUQUITA                         | [37050010] | 7.037222  | -71.419722 |
| 3679 | TANAMA                            | [52055060] | 1.373556  | -77.583056 |
| 4148 | PUERTO NUEVO PATIA - AUT          | [52017001] | 1.908889  | -77.246389 |
| 2804 | BRILLANTE EL                      | [28040320] | 9.702750  | -73.959139 |
| 3494 | CARACOLI                          | [28030190] | 10.088694 | -73.731722 |
| 3624 | GUACHAVES                         | [52050050] | 1.220639  | -77.679667 |
| 1927 | SUEVA                             | [35060020] | 4.810000  | -73.707167 |
| 2545 | GUALMATAN                         | [52050100] | 0.906667  | -77.581389 |
| 3701 | PUENTE BALBOA                     | [52017040] | 1.983333  | -77.166667 |
| 2536 | CHILES                            | [52050130] | 0.811667  | -77.848333 |
| 2833 | DIFICIL EL                        | [25025260] | 9.850000  | -74.250000 |
| 2811 | VILLA CONCEPCION                  | [28040300] | 9.706306  | -73.859444 |
| 2605 | CHIMICHAGUA                       | [25021240] | 9.260083  | -73.809861 |
| 4190 | BELLAVISTA                        | [29030400] | 10.450000 | -75.116667 |
| 3521 | BELLA CLARA HACIENDA              | [28030160] | 10.383333 | -73.433333 |
| 3637 | ROSAL DEL MONTE                   | [52040060] | 1.287306  | -77.174056 |
| 191  | LA DONJUANA - AUT                 | [16017020] | 7.687972  | -72.605472 |
| 3295 | ESTABLO EL                        | [23180050] | 7.541389  | -73.598056 |
| 3291 | CANAL PRINCIPAL                   | [23187080] | 7.533333  | -73.616667 |
| 3264 | INKORA K-7                        | [29037360] | 10.302808 | -74.946558 |
| 990  | PUENTE LAS SANCHEZ                | [11027010] | 5.851972  | -76.180806 |
| 4094 | VICHOY                            | [47010170] | 1.183333  | -76.983333 |
| 3442 | ANGOSTURAS                        | [23197400] | 7.335278  | -73.330833 |
| 1525 | POTRERITOS                        | [35060160] | 4.828806  | -73.769278 |
| 1670 | TACUEYO                           | [26045020] | 3.033333  | -76.233333 |
| 1272 | ESCUELA TENA                      | [35060100] | 4.712694  | -73.520694 |
| 2798 | PASO EL                           | [28040350] | 9.656972  | -73.743694 |
| 3680 | APONTE                            | [52040050] | 1.397333  | -77.030528 |
| 3992 | DOLORES HACIENDA MADRON           | [21155040] | 3.533056  | -74.905778 |
| 3220 | CAMPO TRES                        | [16037010] | 8.517500  | -72.698056 |



|      |                         |            |           |            |
|------|-------------------------|------------|-----------|------------|
| 1767 | SANTA ROSA DE UBALA     | [35060250] | 4.796778  | -73.407194 |
| 2825 | PUERTO BELLO            | [29027020] | 9.816667  | -74.833333 |
| 2822 | MOLINO EL               | [28040310] | 9.776056  | -73.743417 |
| 3207 | CAMPO DOS               | [16037020] | 8.488056  | -72.631111 |
| 801  | GAMA                    | [35060240] | 4.764278  | -73.609917 |
| 2973 | GUAYMARAL               | [28035040] | 9.904917  | -73.647528 |
| 2955 | COOPERATIVA LA          | [23190530] | 7.450000  | -73.450000 |
| 3614 | MILAGROS LOS            | [52025020] | 1.753333  | -76.891667 |
| 2424 | PRIMAVERA LA            | [25020920] | 9.216667  | -73.416667 |
| 824  | LA MAGDALENA - AUT      | [11077020] | 6.298361  | -76.134472 |
| 1357 | NAZARETH                | [35070170] | 4.733333  | -73.200000 |
| 546  | SAN ROQUE               | [25027320] | 9.070000  | -74.160000 |
| 490  | ZAPATOZA                | [25020660] | 9.009750  | -73.754028 |
| 1526 | GACHETA                 | [35065010] | 4.830389  | -73.646472 |
| 3691 | MAMACONDE               | [52010060] | 1.954639  | -77.216389 |
| 454  | PENONCITO               | [25027330] | 8.989722  | -73.947222 |
| 3008 | PUERTO RICO             | [28030170] | 10.150000 | -73.183333 |
| 3554 | TERROR EL HACIENDA      | [25020650] | 8.938778  | -73.560222 |
| 2227 | PAN DE AZUCAR           | [26090660] | 3.716667  | -76.116667 |
| 3288 | RETIRADA LA             | [23180060] | 7.516667  | -73.566667 |
| 2826 | SAN GABRIEL             | [28020420] | 9.844611  | -73.547694 |
| 3747 | SAN BERNARDO            | [52045030] | 1.538722  | -77.032611 |
| 2703 | POPONTE                 | [25020690] | 9.423278  | -73.410944 |
| 3013 | SAN BENITO              | [28020410] | 10.184167 | -73.317028 |
| 3300 | BARRAGAN                | [26105140] | 4.033056  | -75.888028 |
| 541  | RAYA LA                 | [25020670] | 9.050278  | -73.559722 |
| 2856 | DABEIBA 1               | [11117020] | 7.016667  | -76.266667 |
| 4413 | BARBACOAS               | [52065020] | 1.670000  | -78.140000 |
| 2945 | PORVENIR EL             | [23180040] | 7.452778  | -73.482778 |
| 3945 | MAMBITA                 | [35065020] | 4.766667  | -73.333333 |
| 3889 | PUERTO LEON - AUT       | [16027060] | 8.350278  | -72.434722 |
| 1441 | BASE AEREA APIAY        | [35035010] | 4.077111  | -73.559917 |
| 3888 | PEÑA DE LOS MICOS - AUT | [37027010] | 7.196972  | -72.424778 |
| 3152 | PUENTE CARRETERA        | [28037130] | 10.157528 | -73.624778 |
| 4016 | SHISHIMANA              | [15087030] | 12.166667 | -71.300000 |
| 3668 | SAN JOSE DE FRAGUA      | [44045010] | 1.325139  | -75.961500 |
| 2849 | PRESIDENTE              | [37010040] | 7.013889  | -72.680833 |
| 678  | ARENA LA                | [15065030] | 11.189139 | -72.727917 |
| 3748 | TAMINANGO               | [52045040] | 1.549167  | -77.267500 |
| 3824 | PUERTO RICO             | [46035020] | 1.917528  | -75.150667 |
| 685  | SAN P. ALEJANDRINO      | [15017050] | 11.233333 | -74.183333 |
| 4038 | BANCO EL                | [29030360] | 10.483333 | -75.166667 |
| 3592 | JUSTO PASTOR GOMEZ      | [24017580] | 6.233056  | -73.306944 |
| 3071 | PASO DE LA CANOA - AUT  | [37037010] | 7.034556  | -72.152611 |
| 4144 | PUENTE LOPEZ - AUT      | [37017040] | 7.203333  | -72.633889 |
| 2668 | WATCASAINRU             | [15087040] | 12.166667 | -71.283333 |
| 3353 | ESPERANZA LA            | [16015030] | 7.569722  | -72.533889 |
| 1746 | CABUYO 2 EL             | [21217160] | 4.300000  | -75.050000 |
| 2257 | BOMBEROS DEL NORTE      | [21205800] | 4.650000  | -74.066667 |
| 1964 | VENTA DE CAJIBIO        | [26025090] | 2.584750  | -76.561833 |
| 2238 | CAPITOLIO NACIONAL      | [21205810] | 4.600000  | -74.083333 |
| 2908 | SILOS                   | [37015010] | 7.207500  | -72.753333 |
| 446  | BUENOS AIRES            | [26247040] | 7.733333  | -75.433333 |
| 2159 | MUZU CENTRO SALUD       | [21205830] | 4.600000  | -74.133333 |
| 4015 | NAZARETH                | [15087050] | 12.183333 | -71.300000 |

|      |                         |            |           |            |
|------|-------------------------|------------|-----------|------------|
| 3321 | SANTA MARIA-ABASTOS     | [37020040] | 7.093611  | -72.252500 |
| 3131 | VENAGA                  | [37017050] | 7.227889  | -72.445917 |
| 4088 | PUTUMAYO                | [47010070] | 1.150000  | -76.933333 |
| 261  | AEROPUERTO EL EMBRUJO   | [17025020] | 13.359500 | -81.357722 |
| 4082 | SANTA ROSA              | [29060300] | 10.750000 | -74.116667 |
| 3887 | PUENTE SARDINATA - AUT  | [16037030] | 8.103611  | -72.794722 |
| 2782 | SARDINATA               | [16035030] | 8.076667  | -72.803056 |
| 1771 | VADO HONDO - AUT        | [35197020] | 5.506806  | -72.754806 |
| 3763 | BOCATOMA N 2            | [44037110] | 1.566667  | -75.283333 |
| 2972 | TENERIFE                | [29017010] | 9.903472  | -74.864083 |
| 1383 | PALMA LA                | [35077060] | 5.383333  | -73.366667 |
| 3397 | AEROPUERTO AGUAS CLARAS | [16055010] | 8.315278  | -73.357500 |
| 517  | SALAZAR                 | [16025030] | 7.774583  | -72.830556 |
| 3395 | MERCEDES LAS            | [16030050] | 8.297611  | -72.883611 |
| 1893 | BASE AEREA MELGAR       | [21195080] | 4.212222  | -74.636833 |
| 4331 | LAS AGUADAS             | [25027490] | 8.949997  | -74.049997 |
| 2995 | PRADERA LA              | [16030040] | 8.383333  | -72.933333 |
| 3372 | BAGUECHE                | [16020060] | 7.583611  | -72.927500 |
| 3534 | ARMENIA                 | [25027360] | 8.898333  | -74.390000 |
| 2979 | AY MATUYA               | [29030610] | 9.900000  | -75.283333 |
| 3161 | SAN GIL                 | [16030060] | 8.224444  | -72.858056 |
| 1693 | HERRERA                 | [22010010] | 3.287833  | -75.815417 |
| 612  | SANTIAGO CAIMITO        | [16020030] | 7.864167  | -72.716111 |
| 1229 | SAN JOSE D HERMOSA      | [22050060] | 3.903528  | -75.693167 |
| 711  | LOURDES                 | [16030080] | 7.950278  | -72.832500 |
| 3860 | PROGRESO EL HACIENDA    | [27015150] | 6.447472  | -75.397167 |
| 2748 | FLORIDA LA              | [29060190] | 10.610639 | -74.255389 |
| 3025 | REGIDOR                 | [25027410] | 8.666333  | -73.820806 |
| 1898 | ORGANOS                 | [21130080] | 3.120833  | -75.492250 |
| 3514 | ORU                     | [16070040] | 8.641111  | -72.909444 |
| 1171 | MINAS LAS               | [35060130] | 4.675167  | -73.482139 |
| 3998 | SANTA ANA               | [21140060] | 3.583333  | -74.750000 |
| 455  | PUERTO BARCO            | [16070010] | 8.998056  | -72.896944 |
| 183  | MONTELIBANO - AUT       | [25017010] | 7.987972  | -75.417333 |
| 3440 | HACHARIRA               | [16070030] | 8.875833  | -72.982222 |
| 3435 | CAMPO SEIS              | [16037040] | 8.601111  | -72.808611 |
| 2735 | EMPOISLAS               | [17010010] | 12.539750 | -81.720250 |
| 2739 | SAN FELIPE              | [17020030] | 13.356444 | -81.391444 |
| 2740 | SAN FELIPE BOCATOM      | [17027030] | 13.356611 | -81.388917 |
| 2741 | PUEBLO VIEJO            | [17020020] | 13.368611 | -81.379111 |
| 4389 | PRAGA                   | [21130110] | 3.270000  | -75.490000 |
| 2744 | BOCATOMA                | [17027020] | 13.333333 | -81.383333 |
| 2745 | BOWDON-EMBALSE          | [17027010] | 13.366667 | -81.366667 |
| 2400 | LIBANO EL               | [21140130] | 3.649998  | -74.670000 |
| 4390 | MIRAFLORES              | [21140080] | 3.480000  | -74.740000 |
| 3218 | CAMPO TRES              | [16030030] | 8.514944  | -72.697444 |
| 2590 | CUBA HACIENDA           | [25025160] | 8.003889  | -75.402778 |
| 3312 | CNO LA RAYA             | [16060010] | 8.834722  | -72.791667 |
| 428  | DONJUANA LA 2           | [16010020] | 7.697222  | -72.601389 |
| 4288 | RETIRO EL               | [27037020] | 7.560000  | -74.810000 |
| 3214 | PETROLEA                | [16035020] | 8.468611  | -72.579444 |
| 600  | SAN ANTONIO PADUA - AUT | [11057020] | 6.286667  | -76.761806 |
| 298  | LAS CAMELIAS - AUT      | [26247050] | 7.582528  | -75.420056 |
| 3868 | SIRPES LOS              | [23087180] | 6.375444  | -75.161250 |
| 1298 | PUENTE REAL - AUT       | [23087150] | 6.143472  | -75.379944 |

|      |                     |            |           |            |
|------|---------------------|------------|-----------|------------|
| 702  | TAPONERA LA         | [16027110] | 7.916667  | -72.633333 |
| 2977 | ARGELIA             | [28040330] | 9.883333  | -74.100000 |
| 682  | CENTRO AGRO SENA    | [15015010] | 11.216667 | -74.183333 |
| 902  | MORRO EL            | [23080660] | 6.466667  | -75.133333 |
| 797  | SAN CARLOS          | [23085130] | 6.200000  | -74.983333 |
| 3325 | PUENTE FERROCARRIL  | [24057070] | 7.109444  | -73.854722 |
| 844  | TEJAR EL            | [23080730] | 6.300000  | -75.033333 |
| 3286 | CANO NEGRO          | [23187050] | 7.516667  | -73.566667 |
| 863  | TOPACIO EL          | [23080630] | 6.383333  | -74.983333 |
| 3120 | PUENTE CARRETERA    | [24057030] | 7.033333  | -73.716667 |
| 1037 | LA GARRUCHA - AUT   | [23087190] | 5.998361  | -74.938250 |
| 964  | CARMEN EL           | [23145020] | 6.696389  | -73.510000 |
| 862  | ALEJANDRIA          | [23080680] | 6.383333  | -75.150000 |
| 792  | PENOL EL            | [23085110] | 6.214222  | -75.241306 |
| 4109 | ALTO LA ESMERALDA   | [46037030] | 1.783333  | -75.250000 |
| 969  | FUENTE LA           | [24050100] | 6.707250  | -73.279889 |
| 505  | BASE NAVAL          | [29045100] | 11.000000 | -74.783333 |
| 753  | MARINILLA           | [23080640] | 6.171083  | -75.328000 |
| 718  | CAMPOALEGRE         | [23080650] | 6.073778  | -75.335611 |
| 2215 | QUESO EL HACIENDA   | [22047010] | 3.658639  | -75.446222 |
| 2634 | CHIRIGUANA          | [25025250] | 9.361028  | -73.593389 |
| 1048 | CARMELO EL HACIENDA | [23085100] | 6.033333  | -75.400000 |
| 1024 | SAN FRANCISCO       | [23085140] | 5.963806  | -75.100694 |
| 796  | PUERTO INMARCO      | [23097040] | 6.221500  | -74.569556 |
| 763  | ZAPATOCA            | [24055030] | 6.792778  | -73.282750 |
| 2619 | SANTA ANA           | [25027370] | 9.320253  | -74.574558 |
| 3384 | TALADRO EL          | [25025200] | 8.266667  | -74.733333 |
| 840  | URRAO               | [11075020] | 6.298306  | -76.143306 |
| 339  | CARAMANTA - AUT     | [23087160] | 6.507333  | -74.865167 |
| 991  | CAÑASGORDAS - AUT   | [11115020] | 6.758028  | -76.029667 |
| 3139 | AGUASCLARAS         | [24060040] | 7.264167  | -73.548056 |
| 3136 | BRISAS LAS HACIENDA | [24065010] | 7.246111  | -73.790000 |
| 1095 | BOCAS DE IRO        | [54027020] | 5.105528  | -76.683000 |
| 775  | NUTIBARA            | [11115030] | 6.816667  | -76.250000 |
| 2228 | LIMON EL            | [22040010] | 3.716667  | -75.633333 |
| 2295 | SAN RAFAEL          | [22010020] | 3.533333  | -75.733333 |
| 168  | CANTERAS - AUT      | [23087210] | 6.276083  | -74.673306 |
| 1043 | PUENTE FERROCARRIL  | [23077020] | 6.036722  | -74.638111 |
| 1025 | PAILANIA            | [23087200] | 5.974694  | -75.117139 |
| 1687 | TELLO               | [21110380] | 3.050000  | -75.150000 |
| 2086 | SAN PEDRO           | [22050070] | 3.426389  | -75.487444 |
| 2761 | ALBANIA             | [24050110] | 6.911944  | -73.632222 |
| 48   | PALOMAS LAS         | [25027390] | 8.830556  | -74.170556 |
| 3332 | PUTANA LA           | [24050070] | 7.127167  | -73.520556 |
| 45   | ALTO DEL ROSARIO    | [25027400] | 8.794444  | -74.160278 |
| 2737 | PUENTE CARRETERA    | [17027040] | 13.329417 | -81.376556 |
| 998  | MANSA LA            | [11025010] | 5.878306  | -76.084333 |
| 441  | VICTORIA LA         | [25027420] | 8.965000  | -74.220833 |
| 2140 | PANDO EL            | [22060080] | 3.766389  | -75.548556 |
| 1143 | OLAYA HERRERA       | [22060090] | 3.815417  | -75.330056 |
| 4320 | EL SUDAN            | [25027380] | 8.640000  | -74.220000 |
| 2416 | ISTMINA - AUT       | [54017030] | 5.154167  | -76.682861 |
| 2743 | BITE                | [17017010] | 12.566667 | -81.700000 |
| 1175 | NOANAMA             | [54085010] | 4.688194  | -76.934250 |
| 2296 | RIOBLANCO           | [22010030] | 3.533333  | -75.650000 |

|      |                                 |           |            |
|------|---------------------------------|-----------|------------|
| 126  | TADO - AUT [54017040]           | 5.265111  | -76.562750 |
| 2113 | PIE DE PEPE [55010020]          | 5.118417  | -76.824722 |
| 3203 | TEORAMA [16055020]              | 8.442222  | -73.285278 |
| 2058 | CAJONES [26060200]              | 3.226417  | -76.140806 |
| 695  | VILLA CARO [16030090]           | 7.914722  | -72.980000 |
| 2785 | ALTO EL VENADO [16040010]       | 8.088889  | -73.070833 |
| 1992 | SALADO EL [54027030]            | 4.872556  | -76.864500 |
| 1609 | MAMPI [54027040]                | 4.948861  | -76.590472 |
| 3811 | SANTA LUCIA [16055050]          | 8.066667  | -73.233333 |
| 3980 | SAMARIA LA [26145050]           | 5.050000  | -75.883333 |
| 1082 | GAVIOTAS LAS [34015020]         | 4.553944  | -70.930111 |
| 698  | MARIA LA [16055030]             | 7.916667  | -73.216667 |
| 2325 | PUEBLO RICO - AUT [54015010]    | 5.233444  | -76.031639 |
| 3057 | VISTA NIEVES [15010040]         | 11.085361 | -74.079861 |
| 4130 | EL JORDAN [24037360]            | 6.749722  | -73.096667 |
| 4131 | SAN JOSE PALMAR [54025010]      | 4.898083  | -76.676667 |
| 3595 | SAN FRANCISCO [47010090]        | 1.178944  | -76.883389 |
| 2693 | QUIMARI [13040010]              | 8.066667  | -76.333333 |
| 1177 | SIPI [54035010]                 | 4.666667  | -76.650000 |
| 3424 | SAN ANTERITO [13060010]         | 8.557778  | -75.861111 |
| 3001 | VISO EL [29030430]              | 10.150833 | -75.235278 |
| 542  | BELEN [25027850]                | 9.069167  | -73.903056 |
| 467  | BARBOSA [25027530]              | 9.022500  | -74.636667 |
| 3317 | CERRITOS LOS [25027510]         | 8.851917  | -74.268778 |
| 1552 | BEBEDO [54020080]               | 4.932222  | -76.826944 |
| 3222 | VEGA LA [23210120]              | 8.531917  | -73.641472 |
| 3162 | AGUAS CLARAS [23215030]         | 8.228889  | -73.602778 |
| 3385 | TALADRO EL [25021530]           | 8.266667  | -74.733333 |
| 4008 | NARANJOS LOS [15017070]         | 11.283333 | -73.916667 |
| 558  | ALGARROBAL [25027550]           | 9.131528  | -74.044278 |
| 697  | CIELO EL [13020020]             | 7.916667  | -76.416667 |
| 4126 | MOMIL [13070020]                | 9.234444  | -75.688056 |
| 540  | CRISTO REY - AUT [12045020]     | 9.071111  | -76.224444 |
| 2944 | BOCATOMA SANTA MARTA [15017060] | 11.253583 | -74.139306 |
| 2560 | PUENTE CARRETERA [15037020]     | 11.244556 | -73.568611 |
| 3038 | COLOMBOY [25025170]             | 8.740861  | -75.498833 |
| 3223 | QUINCE LETRAS [16050020]        | 8.538056  | -73.244444 |
| 3026 | SANTA CRUZ HACIENDA [13050020]  | 8.667500  | -76.123889 |
| 581  | CERRO CUBA [15030050]           | 11.066667 | -73.400000 |
| 580  | ALTO RIO ANCHO [15030040]       | 11.066667 | -73.466667 |
| 472  | MORENEROS BOCA [25027540]       | 9.016667  | -74.466667 |
| 3539 | JARAMAGAL [12040010]            | 8.900833  | -76.220833 |
| 3130 | SAN BERNARDO [37020020]         | 7.226667  | -72.441944 |
| 1827 | CARDO EL [21090100]             | 2.883333  | -75.383333 |
| 3444 | COBRE EL [16050010]             | 8.600000  | -73.316667 |
| 3036 | GUAYABALES [23210180]           | 8.716667  | -73.466667 |
| 3173 | TOTUMAL [23210130]              | 8.249444  | -73.580000 |
| 2598 | SAN JUAN [16030100]             | 8.025278  | -73.018611 |
| 687  | ALTO RIO CORUAL [15040010]      | 11.233333 | -73.150000 |
| 598  | ALTO RIO DIBULLA [15030030]     | 11.116667 | -73.300000 |
| 568  | CHIMA [13075010]                | 9.150750  | -75.622083 |
| 1872 | CUMBARCO [26125130]             | 4.185056  | -75.832361 |
| 2551 | BURITACA [15010020]             | 11.250131 | -73.764750 |
| 475  | SABANA NUEVA [13070030]         | 9.033333  | -75.833333 |
| 2998 | PLANETA RICA - AUT [25025190]   | 8.399333  | -75.583722 |

|      |                          |            |           |            |
|------|--------------------------|------------|-----------|------------|
| 2243 | LICORERA BOGOINAMA       | [21205820] | 4.616667  | -74.100000 |
| 933  | PALMAR EL                | [24050080] | 6.550000  | -73.283333 |
| 748  | OLIVAL                   | [24010650] | 6.151389  | -73.341667 |
| 822  | CHARALA                  | [24025050] | 6.274167  | -73.150556 |
| 4406 | TREMENTINO               | [25021210] | 8.820000  | -75.470000 |
| 459  | TABLITAS LAS             | [25020750] | 9.011389  | -75.168889 |
| 896  | ESCUELA AGRICOLA MOGOTES | [24025040] | 6.470000  | -72.968889 |
| 810  | LAJA LA                  | [24015250] | 6.237167  | -73.415389 |
| 953  | SANTA ISABEL             | [24040050] | 6.644444  | -73.202778 |
| 2553 | GUACHACA                 | [15017040] | 11.256028 | -73.876722 |
| 4321 | SAN PEDRO                | [25020770] | 9.403056  | -75.052778 |
| 883  | SIMACOTA                 | [24010660] | 6.443611  | -73.333889 |
| 4338 | CIENAGA DE ORO           | [13077070] | 8.870000  | -75.630000 |
| 826  | COROMORO                 | [24020120] | 6.299444  | -73.044722 |
| 2676 | APARTADA LA              | [25020700] | 8.053056  | -75.338611 |
| 980  | MESA LA                  | [24060050] | 6.759167  | -73.092778 |
| 938  | CURITI 2                 | [24020130] | 6.598250  | -73.056111 |
| 489  | SANTIAGO APOSTOL         | [25020760] | 9.004722  | -74.940556 |
| 4075 | HIGAL EL                 | [13077080] | 8.944139  | -75.602861 |
| 468  | VILLA TERESA             | [25027860] | 9.023972  | -74.976667 |
| 2508 | PUERTO LEGUIZAMO         | [47045010] | -0.180611 | -74.776278 |
| 1118 | PICA PICA - AUT          | [25010080] | 8.030000  | -75.680000 |
| 3392 | CHIQUICERA LA            | [25027700] | 8.287778  | -75.510000 |
| 626  | GALERAS                  | [25021000] | 9.165000  | -75.050833 |
| 1345 | VIRGEN LA                | [54077030] | 4.033333  | -77.033333 |
| 629  | PUENTE PEATONAL          | [25027690] | 9.177139  | -75.022417 |
| 3202 | CINTURA                  | [25020710] | 8.420000  | -75.273889 |
| 630  | HATO NUEVO               | [25020990] | 9.178333  | -75.190278 |
| 681  | RIO SAN FRANCISCO        | [15040030] | 11.116667 | -72.983333 |
| 3513 | JOBO EL TABLON           | [25020720] | 8.637222  | -75.383611 |
| 3511 | EUREKA HACIENDA          | [25020740] | 8.629167  | -75.014722 |
| 3046 | CAIMITO                  | [25020980] | 8.790833  | -75.124444 |
| 2835 | BARAYA                   | [24030630] | 6.960278  | -72.821667 |
| 967  | MALAGA 2                 | [24030950] | 6.706389  | -72.729722 |
| 776  | TINAGA GRANJA            | [24035270] | 6.840833  | -72.707500 |
| 635  | CULEBRERA LA             | [25027710] | 9.180528  | -74.914583 |
| 2548 | PUENTE CARRETERA         | [15027010] | 11.244167 | -73.685278 |
| 2875 | SAN FRANCISCO            | [25010100] | 8.129167  | -75.760000 |
| 2889 | CENTRO ALEGRE            | [25015010] | 8.180778  | -75.632278 |
| 1883 | RIOMANSO                 | [22075030] | 4.206778  | -75.415583 |
| 3979 | PUERTO SALDANA           | [22010040] | 3.383333  | -75.716667 |
| 1885 | GAITANIA                 | [22020030] | 3.092000  | -75.674028 |
| 82   | MONTEZUMA                | [21217180] | 4.482056  | -75.286056 |
| 1228 | ROSALES LOS              | [21105050] | 2.603056  | -75.418333 |
| 2558 | ALTO RIO DON DIEGO       | [15020010] | 11.266667 | -73.683333 |
| 849  | CHIMA                    | [24015260] | 6.355000  | -73.368333 |
| 2510 | TAGUA LA                 | [44115020] | -0.060750 | -74.665222 |
| 3205 | CECILIA                  | [25020780] | 8.461389  | -75.034167 |
| 1692 | CASA DE ZINC             | [22020040] | 3.285806  | -75.587500 |
| 1668 | PENA RICA                | [22020020] | 3.045056  | -75.761778 |
| 2405 | ARBOLEDA LA              | [26110290] | 4.531611  | -76.093611 |
| 1904 | BARAYA                   | [21115110] | 3.150000  | -75.066667 |
| 2423 | AGUAZUL                  | [35195030] | 5.177083  | -72.547389 |
| 559  | BARRANCONES              | [25027720] | 9.133917  | -73.772806 |
| 4482 | PUENTE CARRETERA         | [26037030] | 2.475222  | -76.725222 |

|      |                       |            |           |            |
|------|-----------------------|------------|-----------|------------|
| 2373 | PICHINDE              | [26080280] | 3.438194  | -76.601556 |
| 2042 | AEROPUERTO A LLERAS C | [24035340] | 5.676944  | -72.967917 |
| 645  | SAN SEBASTIAN         | [25020900] | 9.233889  | -74.355833 |
| 4132 | PUENTE NACIONAL - AUT | [24017590] | 5.872778  | -73.677778 |
| 2713 | TIERRAGRATA           | [25027730] | 9.435000  | -74.735417 |
| 2515 | BASE NAVAL LEGUIZA    | [47040010] | -0.200000 | -74.766667 |
| 1207 | LETICIA               | [24010070] | 5.303194  | -73.709750 |
| 1011 | SUCRE                 | [24010670] | 5.919722  | -73.796389 |
| 385  | ARCABUCO              | [24010630] | 5.760583  | -73.444139 |
| 2557 | CANAVERALES           | [15015090] | 11.266667 | -73.883333 |
| 2470 | BOCATOMA 2            | [44037130] | 1.600000  | -75.633333 |
| 1279 | BOQUERON              | [24017610] | 5.328250  | -73.699722 |
| 2322 | CAYETANA LA           | [26117150] | 4.583333  | -76.050000 |
| 1013 | MIRAVALLS             | [24010750] | 5.925833  | -73.609167 |
| 2112 | SILOS                 | [21205740] | 5.117722  | -73.701417 |
| 378  | ALBANIA               | [23125060] | 5.758333  | -73.913333 |
| 1035 | VELEZ GRANJA          | [24015270] | 5.997222  | -73.672778 |
| 4028 | PUENTE COMUNA         | [24057050] | 6.991667  | -73.378056 |
| 3753 | MIRA EL GRANJA        | [51025040] | 1.566667  | -78.683333 |
| 544  | SANTA CRUZ            | [25021180] | 9.078333  | -74.688889 |
| 1662 | HOTEL EL              | [24030780] | 5.600000  | -73.216667 |
| 1027 | BOLIVAR               | [24010640] | 5.986111  | -73.770833 |
| 1973 | CASA AMARILLA         | [24030800] | 5.533806  | -73.163500 |
| 1296 | CARMEN DE CARUPA      | [24010610] | 5.351278  | -73.904472 |
| 525  | SALTO VIEJO           | [13017030] | 7.783333  | -76.233333 |
| 4467 | FONDA LA CITEC        | [52015020] | 2.149997  | -77.049997 |
| 1852 | MARLEN                | [24037470] | 5.616667  | -73.200000 |
| 1853 | GARROCHO EL           | [24030770] | 5.623472  | -73.126306 |
| 3030 | PALMARITO             | [25020790] | 8.718889  | -74.717778 |
| 456  | PALENQUITO            | [25027570] | 8.998500  | -74.461694 |
| 3906 | GUAYMARAL             | [25027580] | 9.115139  | -74.595167 |
| 60   | BUENAVISTA            | [25020800] | 8.573056  | -74.529722 |
| 3891 | SAN BENITO            | [24017570] | 6.118333  | -73.493333 |
| 996  | MONQUIRA - AUT        | [24017600] | 5.878139  | -73.570250 |
| 499  | PUERTO COLOMBIA       | [29040230] | 10.988333 | -74.969667 |
| 3401 | SERRANIA SAN LUCAS    | [25021120] | 8.300000  | -74.350000 |
| 983  | MONQUIRA              | [24010710] | 5.852167  | -73.576417 |
| 3393 | ASTILLEROS            | [25020810] | 8.291333  | -74.605722 |
| 2813 | CANONEGRO HACIENDA    | [29010120] | 9.741111  | -74.952222 |
| 55   | BERRUGAS              | [13090030] | 9.910278  | -75.600556 |
| 2724 | CORDOBA               | [25020960] | 9.588056  | -74.825278 |
| 3545 | CAMPO ALEGRE          | [25021360] | 8.924722  | -74.711944 |
| 3000 | ROCHA                 | [29030320] | 10.100833 | -75.402500 |
| 2816 | INDUGAN HACIENDA      | [29010130] | 9.814444  | -74.852222 |
| 2819 | SABANETICA            | [13090010] | 9.828889  | -75.432778 |
| 2919 | VILLANUEVA            | [25020940] | 8.332778  | -74.735556 |
| 4334 | SAN ANTONIO ALERTA    | [25020950] | 9.040000  | -74.770000 |
| 3073 | SANTA ANA             | [29030370] | 10.234167 | -75.551111 |
| 3540 | ISLA DEL COCO         | [25021560] | 8.902778  | -74.798611 |
| 1258 | ENMANUEL D ALZON      | [21201230] | 4.701125  | -74.070306 |
| 3436 | ZAPATA                | [25020820] | 8.602778  | -74.699722 |
| 1041 | PUENTE COLORADO       | [24037410] | 6.014028  | -72.806056 |
| 473  | ILUSION LA            | [25028150] | 9.016667  | -74.433333 |
| 1304 | GAMBOA                | [26030060] | 2.625583  | -76.853611 |
| 872  | SIERRA NEVAD COCUY    | [24035240] | 6.410083  | -72.375194 |

|      |                       |            |           |            |
|------|-----------------------|------------|-----------|------------|
| 3543 | PINILLOS              | [25025210] | 8.911389  | -74.457778 |
| 3542 | CAÑAVERAL             | [14010050] | 10.410000 | -75.340000 |
| 903  | TOTUMO                | [24037400] | 6.466667  | -72.500000 |
| 868  | MOMPA IZQUIERDO       | [24037370] | 6.397417  | -72.817194 |
| 4307 | QUIBDO - AUT          | [11047020] | 5.690000  | -76.660000 |
| 2706 | TIERRA GRATA          | [25021020] | 9.436667  | -74.739167 |
| 2633 | FRONTERA LA HACIENDA  | [25020860] | 9.359444  | -74.940833 |
| 1028 | CURITAL               | [24030690] | 5.988583  | -72.644056 |
| 1017 | GAMBITA               | [24015280] | 5.944722  | -73.343611 |
| 552  | SANTA CRUZ            | [25028090] | 9.083333  | -74.716667 |
| 1040 | CARDON EL             | [35235010] | 6.011667  | -72.529278 |
| 4091 | SAN PABLO             | [47010100] | 1.166667  | -76.933333 |
| 657  | SAN ZENON             | [25021030] | 9.247500  | -74.501944 |
| 3082 | BAYUNCA               | [14010030] | 10.524167 | -75.401389 |
| 268  | REGENCIA              | [25020850] | 8.133333  | -74.650000 |
| 3586 | EL PARAMO - AUT       | [24030680] | 6.653333  | -72.590833 |
| 2446 | LA FONDA - AUT        | [52017030] | 2.147778  | -77.046667 |
| 853  | MORTINO EL            | [24030660] | 6.375111  | -72.419000 |
| 1850 | SIMIJACA              | [24011010] | 5.616667  | -73.850000 |
| 4062 | MESA RICA             | [16040020] | 8.283333  | -73.100000 |
| 1042 | TUTAZA                | [24030650] | 6.033611  | -72.855611 |
| 887  | SAN LUIS              | [24037380] | 6.459667  | -72.430861 |
| 391  | NIMICIA ESCUELA RURAL | [24030640] | 5.782361  | -72.769806 |
| 731  | SATIVANORTE           | [24035320] | 6.116861  | -72.704833 |
| 909  | CAPITANEJO            | [24037390] | 6.513208  | -72.695453 |
| 925  | CHISCAS               | [24035310] | 6.549528  | -72.504722 |
| 911  | CAPITANEJO            | [24035260] | 6.520722  | -72.696611 |
| 910  | COVARACHIA            | [24030700] | 6.514750  | -72.732944 |
| 739  | SANTA ROSITA          | [24030670] | 6.139639  | -72.771000 |
| 1031 | CHAPA LA              | [24035280] | 5.966667  | -72.733333 |
| 2723 | CAIMANCITO            | [25027590] | 9.571139  | -73.794722 |
| 3577 | FLORESTA LA           | [23177020] | 7.166667  | -73.983333 |
| 2010 | SAN FRANCISCO         | [21201080] | 4.900000  | -73.950000 |
| 1994 | GUASCA                | [21205700] | 4.879861  | -73.868111 |
| 2130 | QUILCASE              | [52010100] | 2.332167  | -76.848694 |
| 1355 | BASE AEREA MADRID     | [21205770] | 4.728806  | -74.272500 |
| 1925 | ESPERANZA LA          | [21201140] | 4.802167  | -74.179972 |
| 3127 | EL CONTENTO           | [23217030] | 8.222333  | -73.773417 |
| 3341 | BAGRE EL              | [23177010] | 7.133333  | -74.033333 |
| 1808 | CORAZON EL            | [21201070] | 4.865361  | -74.289417 |
| 4142 | VILLETA - AUT         | [23067070] | 5.008583  | -74.467111 |
| 1963 | PUERTO NINO           | [23110030] | 5.937528  | -74.421778 |
| 343  | BADILLO               | [23187120] | 7.975611  | -73.856750 |
| 519  | SITIO NUEVO           | [23180100] | 7.783333  | -73.800833 |
| 3050 | CALIFORNIA            | [13070130] | 8.783333  | -75.833333 |
| 3160 | ELOY VALENZUELA       | [23180080] | 7.489444  | -73.678333 |
| 3265 | SAN BARRETO           | [29030330] | 10.316667 | -74.966667 |
| 2719 | CHALAN                | [13090040] | 9.538611  | -75.322500 |
| 3129 | COQUERA LA            | [23180120] | 7.222778  | -73.919167 |
| 57   | MONTECRISANTO         | [25025230] | 8.300000  | -74.483333 |
| 3365 | PATURIA               | [23180110] | 7.586111  | -73.825278 |
| 2991 | DIAMANTE EL           | [25021110] | 8.366667  | -74.083333 |
| 3204 | ARENAL                | [25020970] | 8.459444  | -73.941111 |
| 1374 | SAN JOSE PENSILVAN    | [23050230] | 5.374306  | -75.149167 |
| 1026 | PUERTO BOYACA         | [23115010] | 5.978333  | -74.566667 |

|      |                       |            |           |            |
|------|-----------------------|------------|-----------|------------|
| 3309 | FLOR DEL SINU         | [13070220] | 8.816667  | -75.850000 |
| 3319 | YONDO                 | [23160010] | 7.089444  | -73.944167 |
| 3230 | NOROSI                | [25025220] | 8.533333  | -74.050000 |
| 3154 | COL COOPERATIVO       | [23205020] | 7.475000  | -73.925556 |
| 1189 | MARULANDA             | [23020090] | 5.278167  | -75.267139 |
| 2426 | GUADUERO              | [23067050] | 5.192111  | -74.572917 |
| 956  | CARARE                | [23125050] | 6.649444  | -74.061389 |
| 2461 | CUEVA LOS GUACHARO    | [21035030] | 1.583333  | -76.000000 |
| 3199 | YANACUE               | [23170030] | 7.300000  | -74.000000 |
| 4056 | MONTERIA              | [13070270] | 8.826528  | -75.841833 |
| 3296 | COROZA 2              | [13070190] | 8.804722  | -75.765000 |
| 377  | PUERTO LIBRE          | [23060150] | 5.758278  | -74.627333 |
| 154  | SAN MIGUEL - AUT      | [23057140] | 5.731028  | -74.725833 |
| 426  | SANTO DOMINGO         | [23200060] | 7.670556  | -73.941944 |
| 3049 | HORIZONTE             | [13070230] | 8.766667  | -75.866667 |
| 3835 | CAÑAVERAL             |            | 5.323286  | -74.938858 |
| 1000 | TRIQUE EL             | [23110040] | 5.880889  | -74.568342 |
| 284  | TENERIFE DELICIAS     | [23147030] | 6.866667  | -73.766667 |
| 3144 | COQUERA LA            | [23187110] | 7.250000  | -73.916667 |
| 424  | TULENAPA              | [12010040] | 7.666667  | -76.666667 |
| 3306 | MOCARI                | [13070150] | 8.800000  | -75.866667 |
| 4057 | COROZA 1              | [13070140] | 8.833333  | -75.750000 |
| 1034 | PUERTO PERALES        | [23077030] | 5.985333  | -74.587944 |
| 1278 | VICTORIA LA           | [23020100] | 5.321083  | -74.914639 |
| 955  | BARREDERO FINCA       | [23127050] | 6.645556  | -74.065278 |
| 427  | HOYO EL               | [23197410] | 7.684722  | -73.508889 |
| 3335 | SANTO DOMINGO         | [23170050] | 7.116667  | -74.216667 |
| 1704 | PUERTO LIBRE - AUT    | [23067040] | 5.759222  | -74.631750 |
| 506  | JARDIN BOTANICO - AUT | [21205710] | 4.669333  | -74.102667 |
| 3781 | SUPATA                | [23060200] | 5.059694  | -74.239167 |
| 1195 | CHARCO LARGO - AUT    | [23067080] | 5.257139  | -74.345694 |
| 947  | YACOPI - AUT          | [23065110] | 5.484167  | -74.354583 |
| 2339 | PARAISO EL            | [23067090] | 5.233333  | -74.283333 |
| 3548 | GIRASOL HACIENDA      | [25027610] | 8.916667  | -74.133333 |
| 50   | CONTENTO EL           | [25027990] | 8.883333  | -74.450000 |
| 538  | ZORRO 2               | [25028390] | 9.033333  | -74.650000 |
| 51   | MANTEQUERA            | [25028410] | 8.883333  | -74.450000 |
| 2341 | PENON EL              | [23060180] | 5.253444  | -74.294500 |
| 3547 | FLORIDA LA            | [25028130] | 8.916667  | -74.433333 |
| 2253 | UTICA                 | [23060190] | 5.196083  | -74.485500 |
| 550  | DONA ANA              | [25028070] | 9.050000  | -74.800000 |
| 539  | ZORRO 3               | [25028400] | 9.033333  | -74.650000 |
| 450  | GUAYABAL              | [25028370] | 8.950000  | -74.166667 |
| 449  | LLANA LA              | [23195140] | 7.733333  | -73.533333 |
| 4081 | LOMA LA               | [29060380] | 10.750000 | -74.350000 |
| 3301 | PLAYITAS              | [25020870] | 8.822778  | -73.965833 |
| 3559 | CHAPETONA LA          | [25027620] | 8.887500  | -73.969167 |
| 1389 | SAMANA                | [23055040] | 5.419444  | -74.999222 |
| 3556 | BARRANCO DE LOBA      | [25020880] | 8.946667  | -74.110556 |
| 557  | CHILLOA               | [25020890] | 9.119389  | -74.221944 |
| 4018 | TACALOA               | [25028000] | 9.416667  | -74.750000 |
| 3564 | VICTORIA 2 LA         | [25028420] | 8.950000  | -74.233333 |
| 631  | MENCHIQUEJO           | [25021040] | 9.188056  | -74.044222 |
| 42   | TRES CRUCES           | [25027640] | 8.703083  | -74.517306 |
| 436  | VEINTE DE JULIO       | [23197360] | 7.700000  | -73.566667 |



|      |                       |            |           |            |
|------|-----------------------|------------|-----------|------------|
| 1209 | SAN CAYETANO          | [23125070] | 5.300000  | -74.066667 |
| 2110 | BRETANA LA            | [26147130] | 5.052444  | -75.947417 |
| 1285 | PALMA LA              | [23060170] | 5.349361  | -74.389111 |
| 548  | LIMONES LOS           | [25028160] | 9.033333  | -74.466667 |
| 2414 | CABRERA LA            | [23065120] | 5.141556  | -74.139361 |
| 1772 | SAN PABLO             | [23060160] | 5.485083  | -74.462417 |
| 44   | CNO VIDE              | [25028210] | 8.783333  | -74.333333 |
| 2956 | BUENAVISTA            | [27030160] | 7.433333  | -74.666667 |
| 3105 | ESPERANZA LA HACIENDA | [24065020] | 7.066667  | -73.300000 |
| 561  | ESMERALDA LA          | [13025020] | 7.833333  | -76.250000 |
| 3134 | PALMA DE COCO LA      | [27030140] | 7.236111  | -74.807944 |
| 2924 | PATIO BONITO 2        | [27030190] | 7.216667  | -74.833333 |
| 341  | SANTA ROSA D SIMITI   | [23205030] | 7.965278  | -74.059167 |
| 553  | SANTA ROSA            | [25021090] | 9.093333  | -74.313889 |
| 2936 | BOCAS DE CANA         | [27017480] | 7.400000  | -74.916667 |
| 448  | ASI ES LA VIDA        | [27030150] | 7.733333  | -74.583333 |
| 3356 | SAN RAFAEL            | [23197370] | 7.578056  | -73.560556 |
| 3941 | PUENTE CARRETERA      | [26107160] | 4.083333  | -76.183333 |
| 2085 | CRUCES LAS            | [21140120] | 3.425861  | -74.920250 |
| 3063 | MACARENA LA HACIENDA  | [27010680] | 7.050000  | -74.850000 |
| 3520 | BELLA CRUZ            | [23215040] | 8.633333  | -73.633333 |
| 1399 | PUENTE YOPAL - AUT    | [35217010] | 5.369000  | -72.413722 |
| 965  | LA BODEGA - AUT       | [23107020] | 6.732194  | -74.406944 |
| 2579 | ISLANDIA              | [28027160] | 9.632528  | -73.635722 |
| 2327 | CHAMEZA               | [35190030] | 5.204389  | -72.902889 |
| 1496 | MORRO EL              | [35210010] | 5.453056  | -72.456250 |
| 2262 | TAMARINDO             | [35190040] | 5.009528  | -72.544056 |
| 3359 | NORMA LA              | [23190420] | 7.566667  | -73.566667 |
| 2616 | CERRO BAHIA           | [13070240] | 9.300000  | -75.850000 |
| 2277 | TAURAMENA             |            | 5.027258  | -72.869842 |
| 1607 | PRADERA LA            | [35180010] | 4.937361  | -72.665889 |
| 1535 | NARINO                | [21230060] | 4.398611  | -74.825556 |
| 3396 | TITUMATE              | [11150010] | 8.308056  | -77.075833 |
| 413  | LOS ESTEROS           |            | 5.179694  | -72.568389 |
| 1342 | ITALIA LA             | [26100790] | 4.057222  | -75.805750 |
| 2179 | VIOTA                 | [21201090] | 4.442694  | -74.542250 |
| 2308 | JERUSALEN             | [21235010] | 4.561806  | -74.702389 |
| 3357 | ORIENTE EL            | [27030220] | 7.566667  | -74.666667 |
| 3092 | MARIA LA              | [29060200] | 10.540667 | -74.186972 |
| 1473 | ZARZAL                | [26100780] | 4.383056  | -76.073500 |
| 4031 | LONDRE EL             | [27030130] | 7.466667  | -74.650000 |
| 1443 | CEILAN                | [26100770] | 4.114306  | -76.042528 |
| 4030 | SALAQUI               | [11120010] | 7.433333  | -77.283333 |
| 3787 | MAJAGUAL              |            | 8.540000  | -74.530000 |
| 2929 | LIBERTAD LA           | [23207030] | 8.333333  | -73.850000 |
| 2915 | MEDIA LUNA            | [27027080] | 7.203056  | -75.318917 |
| 549  | ICOTEAS LAS           | [13070330] | 9.050000  | -75.766667 |
| 2914 | PUENTE ANORI          | [27027090] | 7.201944  | -75.315778 |
| 1390 | SAN LUIS PALENQUE     | [35230010] | 5.420500  | -71.728056 |
| 3528 | SALENTO               | [26120160] | 4.636278  | -75.569167 |
| 3142 | MARGARITAS LAS        | [27020280] | 7.250000  | -75.266667 |
| 1961 | TIBACUY               | [21190250] | 4.350000  | -74.450000 |
| 2876 | TANELA                | [11150020] | 8.162917  | -77.040417 |
| 1090 | SAN JOSE              | [35190070] | 5.091917  | -72.458583 |
| 3430 | TRES Y MEDIO          | [27027070] | 7.400000  | -74.950000 |

|      |                        |            |           |            |
|------|------------------------|------------|-----------|------------|
| 2342 | PUENTE CHARTE          | [35197040] | 5.256472  | -72.485944 |
| 1950 | PIJAO                  | [26120170] | 4.332750  | -75.706278 |
| 1158 | NOGALES ALTAGRACIA     | [26100800] | 3.888667  | -76.065833 |
| 483  | ENANO EL               | [29060160] | 10.902194 | -74.189472 |
| 2422 | SURAL EL               | [35195010] | 5.150000  | -72.500000 |
| 2039 | LUCERNA HACIENDA       | [26100070] | 4.223806  | -76.147306 |
| 2755 | BRISAS DEL NECHI - AUT | [27027060] | 6.939694  | -75.380833 |
| 954  | ABRIAQUI               | [11110020] | 6.642500  | -76.075000 |
| 3830 | BARRANQUILLITA         | [12010030] | 7.570000  | -76.700000 |
| 1795 | SAN JUAN D RIOSECO     | [21230070] | 4.851278  | -74.622833 |
| 2183 | CARACOL EL             | [35077120] | 5.056861  | -73.390333 |
| 4457 | PTE FIERRO - AUT       | [35077080] | 4.980000  | -73.460000 |
| 3898 | SALITRE EL             | [35077070] | 4.983333  | -73.483333 |
| 1151 | PURIFICACION 2         | [21137070] | 3.866667  | -74.950000 |
| 2246 | ANZOATEGUI             | [21240070] | 4.637500  | -75.090000 |
| 1164 | VENADILLO              | [21250460] | 4.663806  | -74.917750 |
| 364  | ARMERO GJA-C UNIVE     | [21250510] | 4.966667  | -74.916667 |
| 91   | ANGOSTURA - AUT        | [21137050] | 3.440000  | -75.120000 |
| 3451 | BAYANO                 | [29060350] | 10.631167 | -74.298583 |
| 3942 | RAFAELA LA             | [26100820] | 4.116667  | -76.200000 |
| 1862 | BORBUR 2               | [23120250] | 5.649639  | -74.068722 |
| 186  | LA ESPERANZA NECHI     | [27037010] | 8.030000  | -74.790000 |
| 1857 | BORBUR - AUT           | [23127010] | 5.649389  | -74.055028 |
| 1471 | NARANJAL               | [54030020] | 4.356917  | -76.353417 |
| 1016 | FREDONIA               | [26200150] | 5.936750  | -75.685111 |
| 2389 | CUMBRE LA              | [53110100] | 3.647861  | -76.566389 |
| 907  | GUASABRA               | [26210130] | 6.503333  | -75.955833 |
| 721  | CLARA LA               | [27015160] | 6.066667  | -75.600000 |
| 526  | PIAMONTE               | [26250090] | 7.783333  | -75.200000 |
| 3198 | PUERTO VALDIVIA        | [26240120] | 7.300000  | -75.433333 |
| 2387 | PROVIDENCIA            | [53110030] | 3.633056  | -76.715278 |
| 3425 | ACHI                   | [25027160] | 8.559972  | -74.553861 |
| 777  | SABANALARGA            | [26230200] | 6.846000  | -75.814806 |
| 3427 | HOYO RICO              | [26240080] | 7.383333  | -75.450000 |
| 1884 | OTANCHE                | [23125080] | 5.661722  | -74.184611 |
| 269  | LA RAYA                | [25027910] | 8.344556  | -74.561222 |
| 2142 | JUNTAS LAS             | [26090060] | 3.773222  | -76.165556 |
| 2667 | ALJIBE SANTA CRUZ      | [15087060] | 12.216667 | -71.333333 |
| 4478 | NOANAMA ASERRIO        | [54057010] | 4.670000  | -76.930000 |
| 3370 | TARAZA                 | [26245030] | 7.583333  | -75.400000 |
| 1635 | SANTA HELENA           | [22070030] | 4.124556  | -75.499528 |
| 2665 | ANUHAPA                | [15087070] | 12.200000 | -71.316667 |
| 1242 | LA PLATA               | [35130010] | 3.956083  | -72.765722 |
| 732  | SANTA ROSA - AUT       | [23127060] | 6.291944  | -74.098333 |
| 760  | VEGACHI                | [23105030] | 6.774111  | -74.796528 |
| 3377 | BAGRE EL               | [27047010] | 7.616667  | -74.800000 |
| 836  | CIMITARRA              | [23125120] | 6.308611  | -73.952222 |
| 3138 | GRANJA LA              | [26220100] | 7.249639  | -75.734083 |
| 2965 | CASA DE PIEDRA         | [29030500] | 9.873889  | -75.215833 |
| 937  | YOLOMBO                | [23100040] | 6.594278  | -75.010917 |
| 2989 | CALMA LA               | [29030450] | 9.932972  | -75.262389 |
| 3919 | COTOVE HACIENDA        | [26225030] | 6.533917  | -75.827333 |
| 2986 | PLATANO                | [29030530] | 9.919167  | -75.235833 |
| 1739 | LOMITAS                | [26020380] | 3.075389  | -76.556250 |
| 751  | ARMENIA                | [26200140] | 6.157972  | -75.771528 |

|      |                          |            |           |            |
|------|--------------------------|------------|-----------|------------|
| 787  | PADILLA                  | [23115020] | 6.200000  | -74.366667 |
| 2358 | TUNEZ HACIENDA           | [26175040] | 5.800250  | -75.650972 |
| 56   | GALINDO                  | [25027880] | 8.300000  | -74.583333 |
| 793  | ALTAMIRA                 | [26210140] | 6.218528  | -75.945500 |
| 894  | AEROPUERTO PUERTO BERRIO | [23095010] | 6.465000  | -74.412222 |
| 2824 | MIRANDA                  | [29030490] | 9.816667  | -75.316667 |
| 755  | VEGACHI                  | [23107040] | 6.772361  | -74.797583 |
| 795  | LANDAZURI                | [23125130] | 6.221389  | -73.808889 |
| 4047 | SAN JACINTO              | [25027950] | 8.250000  | -74.716667 |
| 2768 | ORO EL                   | [26230190] | 6.933333  | -75.766667 |
| 3187 | MONTECRISANTO            | [29030520] | 9.949306  | -75.217194 |
| 1283 | PUENTE NEGRO - AUT       | [26147140] | 4.987944  | -75.858917 |
| 837  | CORRIENTES               | [23085160] | 6.311944  | -75.253556 |
| 899  | SAN ROQUE                | [23080760] | 6.487500  | -75.017000 |
| 951  | MASCOTA LA               | [23107030] | 6.639639  | -74.875444 |
| 2204 | ESCALERETA LA            | [21040070] | 2.216667  | -75.683333 |
| 915  | PORTUGAL HACIENDA        | [23125110] | 6.500000  | -74.050000 |
| 2369 | NEGUA                    | [11047030] | 5.830306  | -76.619194 |
| 715  | COCORNA                  | [23080750] | 6.053333  | -75.182611 |
| 3110 | ANORI                    | [27025030] | 7.071917  | -75.150528 |
| 404  | SAN JUAN                 | [29060290] | 10.766667 | -74.166667 |
| 867  | CONCEPCION               | [23080740] | 6.396944  | -75.259167 |
| 4010 | CAMPANARIO EL            | [16057060] | 8.016667  | -73.216667 |
| 2688 | SOLEDAD LA               | [16057050] | 8.050000  | -73.216667 |
| 2258 | MARIQUITA                | [23017050] | 5.200000  | -74.916667 |
| 1253 | BORREGO V RICA HACIENDA  | [35010050] | 3.966667  | -73.400000 |
| 3472 | BADILLO                  | [28015080] | 10.666667 | -73.150000 |
| 3279 | SAN JOSE D ORIENTE       | [28025040] | 10.350000 | -73.050000 |
| 3095 | URUMITA                  | [28015070] | 10.566389 | -73.016389 |
| 3526 | SANTA ROSA DE LIMA       | [29060100] | 10.402750 | -74.108000 |
| 1259 | SANTA ISABEL             | [21255110] | 4.701750  | -75.131833 |
| 3517 | MANAURE                  | [28010040] | 10.391389 | -73.025278 |
| 1056 | BOCAS                    | [22017010] | 3.471889  | -75.666944 |
| 3463 | BONGO EL                 | [29060030] | 10.648778 | -74.375500 |
| 400  | PALMOR EL                | [29060340] | 10.773444 | -74.025639 |
| 1542 | SANTA BARBARA            | [21250480] | 4.906611  | -75.220194 |
| 3137 | TESORO EL                | [27020260] | 7.246778  | -75.302194 |
| 2299 | TINAJAS                  | [21150030] | 3.566056  | -75.062500 |
| 3307 | MOCARI                   | [13077100] | 8.800000  | -75.850000 |
| 314  | VILLAHERMOSA             | [21255120] | 5.020000  | -75.120000 |
| 2374 | SARDINAS LAS             | [22017020] | 3.438472  | -75.686583 |
| 2072 | PAN DE AZUCAR            | [22050080] | 3.379528  | -75.508139 |
| 948  | PLAYA LA                 | [11077030] | 6.616667  | -76.750000 |
| 688  | ANAIME                   | [15047010] | 11.233333 | -73.050000 |
| 3617 | BAJO FRUTAL              | [21010130] | 1.810389  | -76.246694 |
| 401  | CONEJO EL                | [15060150] | 10.777944 | -72.798194 |
| 591  | PAN GRANDE               | [15080100] | 11.100000 | -72.450000 |
| 2552 | PUENTE BOMBA             | [15047020] | 11.252056 | -73.163389 |
| 3561 | ESPERANZA LA             | [29060180] | 10.742528 | -74.306278 |
| 2081 | SANTIAGO PEREZ           | [22020050] | 3.395222  | -75.604500 |
| 1661 | MARIA LA                 | [26177060] | 5.600000  | -75.600000 |
| 2136 | CISNEROS                 | [53110020] | 3.781972  | -76.758611 |
| 1568 | MINA LA                  | [21080080] | 2.793056  | -75.632000 |
| 1219 | SAN ANDRES               | [21050230] | 2.581806  | -76.046806 |
| 1098 | PAEZ                     |            | 5.096361  | -73.053222 |

|      |                         |            |           |            |
|------|-------------------------|------------|-----------|------------|
| 2916 | MALDONADO               | [23157080] | 7.204722  | -73.926667 |
| 1312 | YARUMAL                 | [21050170] | 2.652389  | -75.758944 |
| 3644 | CANDELA LA              | [21010140] | 1.864389  | -76.360833 |
| 1119 | SANTA TERESA            | [21050240] | 2.460611  | -76.054194 |
| 2126 | SAN VICENTE             | [21050160] | 2.317056  | -76.010139 |
| 1123 | ALTAMIRA                | [21050250] | 2.501000  | -76.095167 |
| 1213 | SAN LUIS                | [21050220] | 2.565889  | -75.927889 |
| 3650 | VILLA FATIMA            | [21010160] | 1.899444  | -76.394167 |
| 1417 | HERRERAS LAS            | [21080100] | 2.772833  | -75.613056 |
| 3705 | OPORAPA                 | [21040030] | 2.030944  | -76.100306 |
| 1133 | HATILLO EL              | [21050140] | 2.510778  | -75.615667 |
| 2263 | CEDROS LOS              | [35080060] | 5.013611  | -73.203444 |
| 2041 | LIMONAR EL              | [21197150] | 4.232556  | -74.620556 |
| 2259 | MIRAFLORES              | [35085010] | 5.200000  | -73.150000 |
| 439  | PAEZ                    |            | 5.082611  | -73.068417 |
| 1522 | SAN LUIS DE GACENO      | [35080070] | 4.819778  | -73.169861 |
| 1401 | DINDE                   | [26030070] | 2.697417  | -76.754722 |
| 3809 | PUERTO BOYACA           | [23117040] | 5.978333  | -74.566667 |
| 4098 | PORVENIR                | [44015020] | 1.183333  | -76.866667 |
| 4033 | PRESA AY MATUYA         | [29035180] | 9.928472  | -75.279917 |
| 2413 | PACHAVITA               | [35070210] | 5.139250  | -73.395639 |
| 3390 | MORALES-LA CRUZ         | [23205040] | 8.283333  | -73.866667 |
| 1738 | PUENTE CABUYARITO       | [35107010] | 4.295639  | -72.865611 |
| 1641 | ARMENIA LA              | [21080090] | 2.850000  | -75.550000 |
| 187  | SAN JUAN NECHI - AUT    | [27037030] | 7.475000  | -74.920833 |
| 3817 | HACIENDA LAS MARGARITAS | [35125010] | 4.340556  | -72.156361 |
| 1365 | REP LOS MUCHACHOS       | [21205750] | 4.733333  | -74.166667 |
| 3972 | VISO EL                 | [35107020] | 4.350000  | -72.783333 |
| 2233 | CEJALITO                | [35135010] | 3.716667  | -72.350000 |
| 1557 | AGUASAL                 | [11017010] | 5.473611  | -76.537750 |
| 4362 | CABUYARO                | [35107030] | 4.280000  | -72.790000 |
| 2641 | CICUCO                  | [25027560] | 9.383333  | -74.700000 |
| 3552 | SAGOC                   | [25028140] | 8.933333  | -74.450000 |
| 2315 | BARRANCA DE UPIA        | [35105020] | 4.566667  | -72.966667 |
| 463  | PUERTO LOPEZ            | [25028200] | 8.983333  | -74.383333 |
| 4074 | MARIAS LAS              | [25028300] | 8.933333  | -74.166667 |
| 2649 | OROCHON                 | [15070240] | 11.811639 | -72.190611 |
| 2694 | CABRERA LA              | [16057070] | 8.066667  | -73.233333 |
| 47   | PUERTO CARMEN           | [25028230] | 8.816667  | -74.316667 |
| 2019 | AZULEJOS LOS            | [24030820] | 5.663722  | -73.210111 |
| 3903 | CARMEN EL               | [25028080] | 9.016667  | -74.766667 |
| 537  | ZORRO 1                 | [25028380] | 9.033333  | -74.650000 |
| 3380 | CAMPO ALEGRE            | [25028250] | 8.883333  | -74.350000 |
| 4087 | QUINCHOA                | [47010080] | 1.150000  | -77.000000 |
| 469  | NEGRITOS LOS            | [25021200] | 9.026667  | -74.079444 |
| 3441 | SAN LUIS                | [25021370] | 8.881667  | -74.708056 |
| 4061 | PANELAS LAS             | [25028180] | 8.883333  | -74.466667 |
| 634  | SAN JAVIER              | [25028060] | 9.166667  | -74.666667 |
| 474  | SALTO EL                | [25028320] | 9.016667  | -74.000000 |
| 873  | VERDE LA                | [23120010] | 6.412500  | -73.899722 |
| 536  | MAJATA                  | [25027600] | 9.033333  | -74.650000 |
| 4079 | PLATANERA LA            | [25028280] | 8.950000  | -74.250000 |
| 866  | VIRGINIAS               | [23090020] | 6.393556  | -74.681806 |
| 554  | JAGUA                   | [25028340] | 9.096667  | -74.658333 |
| 1477 | JAMURY                  | [33065010] | 4.366667  | -69.166667 |

|      |                     |            |           |            |
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| 611  | LORENA LA           | [12010060] | 7.863056  | -76.689167 |
| 3032 | CABLE EL            | [16067020] | 8.676389  | -72.949722 |
| 3394 | RIO DE ORO          | [16050060] | 8.293056  | -73.388333 |
| 2753 | GUACA               | [24030750] | 6.881111  | -72.858333 |
| 421  | VEGA LA             | [23190540] | 7.650833  | -73.180556 |
| 2096 | COLOMBIANO EL       | [21205850] | 5.033889  | -73.848194 |
| 509  | LA COSECHA - AUT    | [21205910] | 4.989222  | -74.001194 |
| 2845 | DABEIBA 2 - AUT     | [11117050] | 7.004389  | -76.266389 |
| 1523 | SUASUQUE            | [21205920] | 4.820833  | -73.963889 |
| 3994 | INDUQUIMICA         | [21205900] | 4.583333  | -74.233333 |
| 2256 | CORZO EL            | [21205860] | 4.650000  | -74.200000 |
| 1369 | SALITRE EL          | [21205870] | 4.738889  | -74.334278 |
| 1722 | FLORES CHIBCHA      | [21205880] | 4.789722  | -74.264778 |
| 1532 | VILLA ROSA          | [21205930] | 4.833333  | -74.100000 |
| 1344 | CASABLANCA          | [21206060] | 4.717111  | -74.253333 |
| 2005 | GUANATA             | [21205890] | 4.885944  | -74.054333 |
| 295  | CHIGORODO           | [12017010] | 7.673056  | -76.683917 |
| 3128 | MUTATA - AUT        | [11117040] | 7.229444  | -76.438056 |
| 555  | JOLON EL            | [25021290] | 9.101389  | -74.408889 |
| 479  | ANTILLAS LAS        | [15060260] | 10.883333 | -72.883333 |
| 2722 | PUEBLITO EL         | [25021500] | 9.581167  | -74.352250 |
| 628  | BARRANCO DE YUCA    | [25021260] | 9.173889  | -74.850833 |
| 1301 | NUEVO PARAISO       | [21100080] | 2.615278  | -75.206694 |
| 636  | JURISDICCIONES      | [16050140] | 7.850000  | -73.233333 |
| 543  | CANDELARIA          | [25021270] | 9.073056  | -74.525556 |
| 2726 | MECHA LA            | [25021190] | 9.622944  | -74.595639 |
| 4326 | EL SUDAN            | [25021320] | 8.640000  | -74.210000 |
| 1702 | PALMERA LA          | [26070770] | 3.333333  | -76.166667 |
| 2153 | PUENTE COLACHE      | [22057070] | 3.790028  | -75.202667 |
| 2715 | TACAMOCHO           | [25027940] | 9.493583  | -74.815389 |
| 2682 | LLANO SUAREZ        | [16050160] | 8.050000  | -73.233333 |
| 2606 | MOMPOS              | [25021350] | 9.262778  | -74.435556 |
| 4473 | GUAYABO             | [21117080] | 2.920000  | -75.150000 |
| 2681 | TEJA LA             | [16050090] | 8.050000  | -73.233333 |
| 1106 | ARCADIA LA          | [21100140] | 2.434806  | -75.400889 |
| 1317 | PUENTE CARRETERA    | [21087060] | 2.650000  | -75.566667 |
| 1405 | PALCO EL            | [21100120] | 2.700000  | -75.233333 |
| 1305 | JARDIN EL HACIENDA  | [21087070] | 2.630611  | -75.555583 |
| 2607 | LIMON EL            | [25021300] | 9.273889  | -74.646389 |
| 556  | GUAYMARAL           | [25021330] | 9.115444  | -74.613472 |
| 41   | UNION LA            | [25027980] | 8.700000  | -74.316667 |
| 458  | POZON EL            | [25021310] | 9.004167  | -74.405833 |
| 3121 | TASCON              | [11117030] | 7.083333  | -76.416667 |
| 1820 | VOLCAN EL           | [21120100] | 2.865000  | -75.566389 |
| 1302 | ROMELIA LA          | [26030080] | 2.622806  | -76.895111 |
| 4350 | COYONGAL            | [25027930] | 8.949997  | -74.490000 |
| 1346 | GUAMO-MILAN         | [21187060] | 4.033333  | -74.983333 |
| 2346 | MECAJE              | [53070020] | 2.483333  | -77.100000 |
| 2662 | SOCOMBA             | [28025080] | 9.686667  | -73.240556 |
| 2941 | PROVINCIA           | [23195170] | 7.402500  | -73.435000 |
| 602  | LIBANO EL           | [23190110] | 7.838056  | -73.428056 |
| 2870 | PORTILLO EL         | [37010060] | 7.027778  | -72.804444 |
| 3354 | SAN RAFAEL          | [23190560] | 7.574444  | -73.559722 |
| 2828 | CENTENARIO HACIENDA | [28025090] | 9.850250  | -73.265472 |
| 1731 | LA NUEVA - AUT      | [21257100] | 4.795083  | -74.971944 |

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| 425  | PUERTO BELGICA [26240090]                | 7.668306  | -75.284444 |
| 3601 | MICHOACAN [47015040]                     | 1.198278  | -76.960972 |
| 3118 | ESPERANZA LA [23197460]                  | 7.079444  | -73.063056 |
| 1617 | PALMA LA [21250530]                      | 4.950000  | -75.083333 |
| 4315 | MARRALU - AUT [25027120]                 | 8.320000  | -75.240000 |
| 1589 | VILLA INES - AUT [21205940]              | 4.834972  | -74.383972 |
| 1553 | LLANO EL [21205990]                      | 4.927778  | -73.950000 |
| 3859 | CANAL A [47017701]                       | 1.114444  | -76.976944 |
| 4133 | BETE [1105002]                           | 5.994722  | -76.780028 |
| 1544 | SAN CAYETANO [21206030]                  | 4.916833  | -74.181667 |
| 2007 | SANTILLANA [21206020]                    | 4.898528  | -74.104833 |
| 3688 | PUERTO RICO [46037060]                   | 1.917528  | -75.150667 |
| 652  | MAGANGUE [25027920]                      | 9.233333  | -74.766667 |
| 3899 | CALAORRA [11050040]                      | 5.766667  | -76.850000 |
| 3727 | CANAL B [47017100]                       | 1.116389  | -76.978889 |
| 1724 | PROVIDENCIA GRANJA [21205980]            | 4.792389  | -74.200917 |
| 2770 | PENAS BLANCAS [23167010]                 | 6.954722  | -73.950833 |
| 4120 | PATIO BONITO [4603705]0                  | 1.950000  | -75.216667 |
| 1284 | MANAGRU [11030030]                       | 5.334167  | -76.728139 |
| 1089 | LORETOKI HACIENDA [21206010]             | 5.089028  | -73.802750 |
| 665  | MAGANGUE [25027840]                      | 9.250000  | -74.766667 |
| 4017 | TRES EL [12027030]                       | 8.065028  | -76.657750 |
| 730  | ALTO DEL BUEY [11050060]                 | 6.108333  | -76.915639 |
| 1608 | TACHI [21205960]                         | 4.939056  | -74.152583 |
| 729  | BUEY EL [1105003]                        | 6.102500  | -76.821361 |
| 3818 | HACIENDA SANTA ANA [21205970]            | 5.090500  | -73.881250 |
| 1452 | TIBACHOQUE HACIENDA [21205950]           | 4.759056  | -74.205167 |
| 4302 | HACIENDA SANTA ANA [21205970]            | 5.090000  | -73.880000 |
| 1565 | PAIMADO [11030040]                       | 5.481611  | -76.740861 |
| 2232 | SAN CARLOS GUAROA [35015030]             | 3.716667  | -73.250000 |
| 842  | ROBLE EL [11070020]                      | 6.332222  | -76.228611 |
| 1954 | CAMP YUCAO [35127020]                    | 4.340556  | -72.156361 |
| 523  | CAREPA [12017080]                        | 7.763361  | -76.658250 |
| 535  | PUENTE CARRETERA [12017050]              | 7.823889  | -76.648056 |
| 923  | CLARITA LA [11070030]                    | 6.539444  | -76.158611 |
| 3350 | NUEVA LA [11127010]                      | 7.316667  | -77.166667 |
| 534  | VICTORIA LA [12017030]                   | 7.816667  | -76.683333 |
| 779  | FUEMIA [11110030]                        | 6.858056  | -76.252222 |
| 622  | APARTADO [12017060]                      | 7.875750  | -76.622583 |
| 394  | GUADUAS [11020020]                       | 5.766667  | -76.183333 |
| 4297 | BARRANQUILLITA - AUT [12017020]          | 7.570000  | -76.710000 |
| 765  | OPOGADO [11090010]                       | 6.812528  | -76.972722 |
| 4080 | AHUYAMA LA [29060320]                    | 10.750000 | -74.500000 |
| 1753 | PICA LA [35117020]                       | 4.300000  | -72.600000 |
| 3557 | ALAMBRADO EL-ALERT [26120180]            | 4.409306  | -75.875333 |
| 818  | PUERTO SUIZA [23097050]                  | 6.250000  | -74.566667 |
| 476  | RUBI EL [29065070]                       | 10.850000 | -74.183333 |
| 3035 | LAJA LA HACIENDA [12037020]              | 8.716667  | -76.483333 |
| 4396 | EL CARMELO [12037030]                    | 8.620000  | -76.390000 |
| 1094 | PUENTE FORERO [35080100]                 | 5.101389  | -73.251417 |
| 511  | TRIGANA [12010090]                       | 7.747667  | -76.711889 |
| 3024 | CANDELARIA LA [12037010]                 | 8.659722  | -76.445833 |
| 3865 | RIOGRANDE [12017040]                     | 7.927833  | -76.621111 |
| 188  | SAN PABLO RIO MAGDALENA - AUT [23207040] | 7.480333  | -73.918556 |
| 4290 | ARGELIA [23055070]                       | 5.730000  | -75.140000 |

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|------|-----------------------|------------|-----------|------------|
| 1623 | NACIONAL GRANJA LA    | [26175030] | 5.717333  | -75.690917 |
| 614  | CASCO EL              | [12010070] | 7.884444  | -76.647778 |
| 528  | TOSCANA LA            | [12010050] | 7.808056  | -76.703056 |
| 701  | EUPOL                 | [12010100] | 7.945528  | -76.617389 |
| 1969 | FLORENCIA             | [23055080] | 5.533333  | -75.050000 |
| 699  | SANTA MARTHA          | [12010120] | 7.923833  | -76.649083 |
| 2580 | PRADO MAR             | [12010110] | 7.987417  | -76.638528 |
| 512  | SANTA ISABEL          | [12010080] | 7.750000  | -76.666667 |
| 707  | NEGRA LA 1            | [12015040] | 7.950000  | -76.683333 |
| 752  | COLTEPUNTO RNS 19     | [23087260] | 6.168917  | -75.357417 |
| 3840 | PUEBLO BELLO - AUT    | [12027010] | 8.199997  | -76.520000 |
| 533  | UNIBAN                | [12015020] | 7.825917  | -76.651333 |
| 86   | NARINO - AUT          | [21237010] | 4.387778  | -74.838375 |
| 2583 | CURRULAO              | [12027040] | 7.994417  | -76.631750 |
| 1751 | TOMO EL               | [21140110] | 3.345361  | -75.097444 |
| 4095 | COLON                 | [47017040] | 1.183333  | -76.966667 |
| 1851 | VERACRUZ              | [26135110] | 4.870000  | -75.630000 |
| 4089 | PUENTE CARRETERA      | [47017030] | 1.150000  | -76.900000 |
| 4104 | PIEDRA LISA           | [44017010] | 1.200000  | -76.633333 |
| 2079 | AGUILA EL             | [22010060] | 3.383333  | -75.766667 |
| 2459 | SAN ANTONIO           | [47017060] | 1.133333  | -76.866667 |
| 4092 | PUENTE PITALITO       | [44017030] | 1.166667  | -76.650000 |
| 3625 | MINCHOY               | [44010040] | 1.202111  | -76.817083 |
| 2261 | ALTO MUCENO           | [35080110] | 5.005139  | -73.258611 |
| 4476 | PARQUE TAYRONA        | [15015100] | 11.310000 | -73.930000 |
| 2460 | PUENTE MOCOA          | [44017020] | 1.133333  | -76.616667 |
| 3626 | CAMPUCANA             | [44010030] | 1.202500  | -76.680833 |
| 1791 | PUERTO GAITAN         | [35127010] | 4.311556  | -72.076583 |
| 667  | EJEMPLO EL            | [15067030] | 11.116667 | -72.583333 |
| 2094 | SANTA MARIA DE USME   | [21201240] | 4.481306  | -74.126278 |
| 2961 | FINCA LA ESPERANZA    | [29030510] | 9.870000  | -75.290000 |
| 1334 | LORENA LA HACIENDA    | [21180120] | 4.029167  | -75.105556 |
| 3344 | CALDERA LA            | [16020110] | 7.316944  | -72.718333 |
| 2093 | CANDELARIA            | [26115080] | 4.480917  | -76.079889 |
| 3183 | SALIDA EMB MATUYA     | [29037420] | 9.933333  | -75.300000 |
| 2971 | AY MARIA MATAMBA      | [29037730] | 9.866667  | -75.250000 |
| 3184 | EMBALSE MATUYA        | [29037630] | 9.933333  | -75.283333 |
| 2832 | AY MORENA             | [29037640] | 9.850000  | -75.250000 |
| 2817 | PALO ALTO             | [13090110] | 9.817500  | -75.418333 |
| 2709 | ARGENTINA LA HACIENDA | [13090100] | 9.485833  | -75.468611 |
| 3501 | ARRASTRE EL           | [29037780] | 10.083333 | -75.400000 |
| 2708 | SANTA ANGELA HACIENDA | [13090090] | 9.485278  | -75.512500 |
| 3064 | GALAN                 | [23157070] | 7.050000  | -73.866667 |
| 3411 | LAMINAS DEL CARIBE    | [29035150] | 10.016667 | -75.450000 |
| 2747 | MONOS HACIENDA        | [27010960] | 6.898611  | -74.902139 |
| 382  | PUENTE CARRETERA      | [26177070] | 5.750000  | -75.633333 |
| 1256 | LA ESTACION           | [35217020] | 4.692889  | -71.561694 |
| 1453 | FLORIDA LA            | [26137140] | 4.766667  | -75.616667 |
| 1615 | CHARANGA LA           | [35227050] | 4.933333  | -71.433333 |
| 2727 | CAIMITO               | [15070190] | 12.269139 | -71.512778 |
| 4371 | OROCUE BZO DERECHO    | [35227070] | 4.780000  | -71.349997 |
| 1935 | MODULOS               | [35225010] | 4.800000  | -71.333333 |
| 1149 | GUAMAL                | [35010070] | 3.878333  | -73.758611 |
| 4363 | HUMAPO                | [35117010] | 4.330000  | -72.390000 |
| 3950 | SAN MIGUEL            | [35227010] | 4.833333  | -71.433333 |

|      |                       |            |           |            |
|------|-----------------------|------------|-----------|------------|
| 1892 | PUEENTE CARRETERA     | [35027160] | 4.200000  | -73.716667 |
| 655  | ESPERANZA LA HACIENDA | [15060130] | 11.142000 | -72.508472 |
| 2151 | EL TORO               | [35010060] | 3.786667  | -73.400556 |
| 3923 | RODADERO EL           | [26207040] | 6.000000  | -75.800000 |
| 3922 | SANTA CLARA           | [26177100] | 5.950000  | -75.850000 |
| 3510 | TAMPA                 | [13070290] | 8.624722  | -75.767222 |
| 228  | SAN PEDRITO - AUT     | [29047070] | 10.268222 | -74.907861 |
| 3529 | CASA DE BOMBAS        | [29030410] | 10.408333 | -75.127222 |
| 3481 | CORREA 2              | [29037390] | 10.044444 | -75.404722 |
| 802  | CANGREJO EL           | [26217040] | 6.209722  | -75.860694 |
| 1273 | ARABIA                | [26127100] | 4.714194  | -75.713750 |
| 2155 | NARE                  | [35010080] | 3.793889  | -73.149722 |
| 1270 | SUCRE                 | [26127090] | 4.710833  | -75.757694 |
| 589  | PAJONALES HACIENDA    | [15060160] | 11.083333 | -72.600000 |
| 1432 | PUEENTE DEL AMOR      | [35037130] | 4.086083  | -73.668889 |
| 673  | SAN FRANCISCO         | [15060140] | 11.150000 | -72.533333 |
| 2366 | PINOS LOS             | [24030870] | 5.816667  | -73.066667 |
| 3328 | FLORESTA LA           | [23190590] | 7.090278  | -73.123889 |
| 1450 | MURUJUY               | [35037140] | 4.116667  | -73.283333 |
| 2625 | AMPARO EL             | [25028030] | 9.300000  | -74.683333 |
| 46   | NO TE PASES HACIENDA  | [25028220] | 8.800000  | -74.333333 |
| 4069 | CRUCE OLEODUCTO       | [29037410] | 10.066667 | -75.383333 |
| 4052 | PUERTO SANTANDER 1    | [29037380] | 10.000000 | -75.316667 |
| 2711 | PINTO                 | [25028010] | 9.416667  | -74.716667 |
| 4013 | PUERTO KENNEDY        | [25028020] | 9.350000  | -74.716667 |
| 545  | ZORRO EL              | [25028100] | 9.033333  | -74.616667 |
| 464  | SAN MIGUEL            | [25028310] | 9.000000  | -73.983333 |
| 3904 | PLANTA EL RIO         | [29047060] | 10.966667 | -74.766667 |
| 3912 | CAMP INTERCOR         | [15065050] | 11.142861 | -72.514667 |
| 3487 | CERRITOS LOS          | [29037440] | 10.050000 | -75.383333 |
| 3044 | SABANAL               | [13070280] | 8.788611  | -75.751389 |
| 1810 | HATO EL               | [21201210] | 4.866389  | -74.153861 |
| 668  | EJEMPLO EL            | [15060110] | 11.133333 | -72.600000 |
| 3491 | SANTA HELENA 2        | [29037450] | 10.068056 | -75.435833 |
| 3490 | CORREA 1              | [29037400] | 10.056972 | -75.405278 |
| 3483 | SANTA HELENA 1        | [29037370] | 10.058611 | -75.402778 |
| 3453 | PTA CARTAGENA         | [25028170] | 8.883333  | -74.483333 |
| 2361 | PUEENTE IGLESIAS      | [26207030] | 5.829944  | -75.705500 |
| 484  | RIO FRIO              | [29067070] | 10.905417 | -74.154111 |
| 1440 | PERALONSO             | [35027180] | 4.100000  | -73.450000 |
| 1434 | OJO DE AGUA           | [35030050] | 4.091139  | -73.448778 |
| 1516 | VERTEDERO             | [21217170] | 4.283333  | -75.050000 |
| 2364 | AMARILLA LA           | [24030880] | 5.800000  | -73.066667 |
| 2766 | PRIMAVERA             | [24037010] | 6.912500  | -73.002222 |
| 1121 | CALIME                | [32060060] | 3.742333  | -73.834694 |
| 3742 | AGUACLARA             | [53110040] | 3.678083  | -76.540000 |
| 2161 | ARREBOLES             | [26075060] | 3.433333  | -76.433333 |
| 2844 | CONQUISTADOR EL       | [23197430] | 6.989444  | -73.041111 |
| 1628 | BALSOS LOS            | [26177090] | 5.716667  | -75.600000 |
| 3041 | BUENOS AIRES 1        | [13070170] | 8.772778  | -75.749722 |
| 1770 | TIGRE EL              | [26127080] | 4.800000  | -75.800000 |
| 2147 | GUALAS                | [35015040] | 3.750000  | -73.433333 |
| 2999 | PUEBLO NUEVO          | [12027050] | 8.415056  | -76.629389 |
| 3938 | PUERTO TOCARIA        | [35217050] | 5.400000  | -72.183333 |
| 2224 | PUEENTE CAMACHO       | [35017090] | 3.710611  | -73.706444 |



|      |                    |            |           |            |
|------|--------------------|------------|-----------|------------|
| 3447 | BERASTEGUI         | [13070160] | 8.883333  | -75.700000 |
| 841  | BOAVITA            | [24035330] | 6.328972  | -72.582278 |
| 2137 | SAN MARTIN         | [35010090] | 3.750278  | -73.700833 |
| 2370 | TRINIDAD LA        | [24037480] | 5.840028  | -73.082250 |
| 3037 | LAMAS 3            | [13070260] | 8.733333  | -75.850000 |
| 3093 | CAMPANOS LOS       | [29040290] | 10.557778 | -74.971778 |
| 2984 | VITOLA HACIENDA    | [29010140] | 9.916667  | -74.883333 |
| 4037 | PALMA DE VINO      | [13070340] | 8.733333  | -75.800000 |
| 3055 | CABECERA BARTOLO   | [29030390] | 10.483333 | -75.150000 |
| 3151 | PUENTE CARRETERA   | [25027890] | 9.342333  | -73.490889 |
| 4356 | PIÑALITO           | [32070040] | 2.980000  | -73.630000 |
| 3107 | CANAL 1            | [23197440] | 7.066667  | -73.066667 |
| 3574 | MARACAY            | [26130220] | 4.812167  | -75.843056 |
| 934  | MINA LA            | [24030730] | 6.550000  | -72.716667 |
| 3108 | CANAL 2            | [23197450] | 7.066667  | -73.066667 |
| 905  | MOLINOS LOS        | [24030740] | 6.483333  | -72.650000 |
| 3516 | RABON EL HACIENDA  | [29040270] | 10.386944 | -74.962778 |
| 2862 | CANDELARIA         | [29040260] | 10.455111 | -74.886889 |
| 4344 | PIÑALITO           | [32077070] | 2.970000  | -73.680000 |
| 3258 | SAN PEDRITO ALERTA | [29040310] | 10.277889 | -74.920222 |
| 3078 | PUERTO GIRALDO     | [29040300] | 10.507889 | -74.822278 |
| 3275 | CAMPO DE LA CRUZ   | [29040250] | 10.376639 | -74.888417 |
| 2987 | PALMARIGUANI - AUT | [28047050] | 9.930972  | -73.958806 |
| 1463 | PUERTO LLERAS      | [32077060] | 3.266667  | -73.383333 |
| 3089 | CABECERA HENEQUEN  | [29030640] | 10.516667 | -75.116667 |
| 860  | IGUINA HACIENDA    | [26205040] | 6.366667  | -75.866667 |
| 2046 | PALMARITO          | [35037110] | 4.233333  | -73.533333 |
| 2530 | PUERTO CAICEDO     | [47010110] | 0.685917  | -76.605167 |
| 4355 | PUERTO RICO        | [32077080] | 2.940000  | -73.210000 |
| 2544 | PUERTO UMBRIA      | [47010120] | 0.900000  | -76.566667 |
| 1198 | GUERRERITO         | [26170260] | 5.281056  | -75.664972 |
| 3076 | CABECERA EL POLVAR | [29030650] | 10.500000 | -75.150000 |
| 669  | ARENA LA           | [15060270] | 11.189139 | -72.727917 |
| 1799 | MUNDO NUEVO        | [35060300] | 4.852528  | -73.391944 |
| 2457 | FONDO GANADERO     | [44010050] | 1.116667  | -76.633333 |
| 1878 | PUENTE CARRETERA   | [35057040] | 4.198344  | -73.570197 |
| 1063 | LA HOLANDA         | [32075040] | 3.516333  | -73.716028 |
| 864  | CAÑAFISTO          | [26217050] | 6.417972  | -75.819250 |
| 520  | SITIO NUEVO        | [23187280] | 7.784000  | -73.801917 |
| 1215 | PUERTO ARTURO      | [32107010] | 2.568889  | -72.751111 |
| 1339 | POMPEYA            | [35020060] | 4.039750  | -73.368000 |
| 4332 | AGUADAS LAS ALERTA | [25021540] | 8.949997  | -74.049997 |
| 1837 | TEJA ROJA          | [32087030] | 2.900000  | -72.900000 |
| 2818 | BELEN HACIENDA     | [13090080] | 9.819444  | -75.410278 |
| 3591 | TORRE TV SAN FCO   | [47010180] | 1.145417  | -76.845000 |
| 3009 | LETICIA            | [28020590] | 10.152389 | -73.221722 |
| 2763 | TUMAMANA           | [15070200] | 12.329500 | -71.751889 |
| 2959 | CABANA LA HACIENDA | [28040360] | 9.861000  | -74.076722 |
| 1507 | CANAL PATAGUY      | [24017720] | 5.450000  | -73.500000 |
| 4474 | PUENTE BALSEADERO  | [21040040] | 2.230000  | -75.650000 |
| 4386 | PAEZ PAICOL RADIO  | [21050150] | 2.460000  | -75.760000 |
| 4378 | PUENTE SALADOBLANC | [21020050] | 1.980000  | -76.010000 |
| 2829 | RETORNO EL         | [28020600] | 9.854722  | -73.357167 |
| 583  | GUAMITO HACIENDA   | [15067040] | 11.071028 | -72.668222 |
| 1988 | LA GRUTA - AUT     | [24037080] | 5.566972  | -73.046722 |

|      |                    |            |           |            |
|------|--------------------|------------|-----------|------------|
| 4076 | COROCITO           | [13070200] | 8.950000  | -75.800000 |
| 4401 | COYONGAL           | [25021280] | 8.970000  | -74.510000 |
| 662  | ESPERANZA LA       | [15067060] | 11.142333 | -72.508194 |
| 4325 | ESPERANZA LA RADIO | [25021480] | 8.030000  | -74.790000 |
| 823  | CANTERAS           | [23080720] | 6.276167  | -74.674333 |
| 588  | PALMAR EL HACIENDA | [15060120] | 11.083333 | -72.666667 |
| 1989 | NORCASIA RADIO     | [23050250] | 5.574472  | -74.891694 |
| 453  | CARRILLO           | [13070180] | 8.984444  | -75.831778 |
| 674  | HOLANDA LA         | [15067070] | 11.166667 | -72.533333 |
| 562  | COTORRA            | [13070210] | 9.033333  | -75.783333 |
| 2494 | ARARACUARA         | [44135010] | -0.616361 | -72.381917 |
| 353  | CHORRO EL          | [23187260] | 7.983333  | -73.850000 |
| 433  | EDEN EL            | [23187190] | 7.700000  | -73.833333 |
| 1547 | MODULOS            | [35220010] | 4.910472  | -71.433056 |
| 1631 | MARSELLA-ITA       | [26135120] | 4.933333  | -75.750000 |
| 772  | PUERTO GAITAN      | [23137020] | 6.800000  | -74.100000 |
| 3324 | PUENTE LA PAZ      | [24060060] | 7.108611  | -73.419444 |
| 1232 | PIEDRAS DE COBRE   | [22060100] | 3.908278  | -75.103333 |
| 3598 | VIRGINIA LA-ALERTA | [26140180] | 4.892500  | -75.882778 |
| 2150 | EL BARRO           | [35017040] | 3.749722  | -73.179778 |
| 3834 | BOTANA             | [52055040] | 1.160000  | -77.278806 |
| 1760 | HACIENDA LA CABAÑA | [35045020] | 4.300444  | -73.357500 |
| 276  | RANCHO ALEGRE      | [35017070] | 3.863639  | -73.540611 |
| 4318 | MARACAYO           | [13065020] | 8.410000  | -75.880000 |
| 1505 | SALIDA EMBALSE     | [24017690] | 5.450000  | -73.533333 |
| 434  | FE LA              | [23187200] | 7.700000  | -73.816667 |
| 1508 | PUENTE EL          | [24017700] | 5.456167  | -73.540111 |
| 1504 | REBOSADERO         | [24017680] | 5.450000  | -73.533333 |
| 1783 | AMARILLO EL        | [24017670] | 5.500000  | -73.533333 |
| 3002 | JUNQUILLO          | [13067060] | 8.407972  | -75.912083 |
| 3106 | GIRON              | [23197210] | 7.066667  | -73.166667 |
| 3285 | TIERRABUENA FINCA  | [23200070] | 7.516667  | -74.183333 |
| 764  | TABETA             | [37010050] | 6.810278  | -72.556111 |
| 4059 | MONTERRUBIO FINCA  | [23170060] | 7.333333  | -74.050000 |
| 3215 | TRES PIEDRAS       | [13067010] | 8.489500  | -75.953167 |
| 2627 | TRAPICHE EL        | [13070250] | 9.316667  | -75.883333 |
| 2049 | CAMPAMENTO         | [26190120] | 5.681333  | -75.875583 |
| 621  | CANELOS LOS        | [23200020] | 7.866667  | -74.166667 |
| 3209 | PUENTE EL          | [13067070] | 8.433333  | -75.950000 |
| 3915 | RINCON DEL PAJURE  | [35017050] | 3.883333  | -73.116667 |
| 1139 | ALTO COROZAL       | [35017030] | 3.800000  | -73.583333 |
| 1779 | CANAL RUCHICAL BOC | [24017660] | 5.483333  | -73.516667 |
| 3429 | SAN PABLITO        | [23187170] | 7.383333  | -73.916667 |
| 2352 | JULUMITO ALERTAS   | [26030100] | 2.483333  | -76.616667 |
| 1812 | PUERTO BELLO - AUT | [23087230] | 6.211972  | -74.607111 |
| 352  | DESEO EL           | [23187180] | 7.983333  | -73.850000 |
| 1203 | PUENTE CARRETERA   | [23027060] | 5.289278  | -74.746083 |
| 1150 | OROTOY             | [35017080] | 3.833333  | -73.616667 |
| 3047 | UNIV DE CORDOBA    | [13075050] | 8.793889  | -75.861528 |
| 3031 | GALAN              | [13055030] | 8.659167  | -75.972500 |
| 3147 | BELLAVISTA         | [23177040] | 7.266667  | -74.016667 |
| 1515 | PUENTE CUCUANA     | [22077080] | 4.283333  | -75.200000 |
| 3797 | TIMBA              | [26055020] | 3.117111  | -76.624028 |
| 3944 | PUERTO LLERAS      | [32070050] | 3.283333  | -73.383333 |
| 2969 | SIERRA LA          | [23177050] | 7.466667  | -73.933333 |

|      |                                  |           |            |
|------|----------------------------------|-----------|------------|
| 1866 | MUSEO EL [24011050]              | 5.650000  | -73.533333 |
| 2778 | SOCORRO EL [23207070]            | 8.083333  | -73.916667 |
| 1570 | MINAS LAS [24010800]             | 5.483333  | -73.533333 |
| 1055 | FUENTE DE ORO [32070060]         | 3.466667  | -73.633333 |
| 1502 | GACHANECA [24015290]             | 5.433333  | -73.550000 |
| 1571 | CASA BOMBAS 2 [21090120]         | 2.783333  | -75.366667 |
| 1747 | CARMEN EL [21217200]             | 4.300611  | -75.206556 |
| 3405 | GAMARRA [23210160]               | 8.326667  | -73.737778 |
| 3984 | PUERTO TEXAS [35177020]          | 4.418389  | -71.960972 |
| 435  | NO HAY COMO DIOS [23187210]      | 7.700000  | -73.800000 |
| 941  | REMOLINO [24040060]              | 6.606111  | -73.276111 |
| 1367 | PORVENIR EL [35177010]           | 4.733333  | -71.400000 |
| 3243 | MARIA LA BAJA [29030460]         | 9.983333  | -75.300000 |
| 4048 | HONDURAS [29030440]              | 9.950000  | -75.366667 |
| 4343 | PUERTO RICO [32080010]           | 2.940000  | -73.210000 |
| 1922 | REMOLINO [26030090]              | 2.515000  | -76.829722 |
| 1457 | CAÑO BLANCO [32070020]           | 3.250000  | -73.516667 |
| 1703 | LOS MICOS [32070030]             | 3.316389  | -73.892167 |
| 488  | SEVILLANO [29060310]             | 10.933056 | -74.252444 |
| 2823 | MESA [29030470]                  | 9.800000  | -75.316667 |
| 2958 | CAMARON [29030480]               | 9.855278  | -75.310556 |
| 1159 | MEDIACANOA-ALERTAS [26080290]    | 3.890889  | -76.350833 |
| 49   | NUEVO HORIZONTE [25028240]       | 8.866667  | -74.350000 |
| 2057 | CAMPO ALEGRE [32070010]          | 3.200000  | -73.750000 |
| 3181 | COLU NUEVO [29030710]            | 9.933333  | -75.350000 |
| 3964 | QUEBRADA LOS TRABAJOS [35060310] | 4.866667  | -73.366667 |
| 461  | NUEVO PORVENIR [25028290]        | 8.966667  | -74.233333 |
| 551  | CANDELARIA [25028110]            | 9.066667  | -74.533333 |
| 465  | LADRILLERAS [25028330]           | 9.000000  | -73.966667 |
| 3226 | TRES PALMAS [13067050]           | 8.505556  | -75.952222 |
| 3993 | LEJANIAS [32060050]              | 3.533333  | -74.016667 |
| 639  | SAN FRANCISCO [25028050]         | 9.183333  | -74.716667 |
| 3489 | CATIVA [29030420]                | 10.050000 | -75.216667 |
| 54   | MANCHA LA [25028350]             | 8.266667  | -74.583333 |
| 3876 | RIONEGRO HACIENDA [21120130]     | 2.911861  | -75.426056 |
| 884  | LA CEIBA - AUT [24017640]        | 6.448889  | -73.306944 |
| 1499 | RIOSUCIO [26175050]              | 5.433333  | -75.700000 |
| 2018 | CAMBAO [21237050]                | 4.905528  | -74.738917 |
| 861  | RODEO EL HACIENDA [24010740]     | 6.366667  | -73.366667 |
| 2125 | VILLALOSADA [21057080]           | 2.312194  | -75.970139 |
| 857  | CARMEN EL HACIENDA [24020160]    | 6.350000  | -73.116667 |
| 3999 | UNION LA [26117190]              | 4.516667  | -76.116667 |
| 1818 | OVEJAS ABAJO ALERT [26020390]    | 2.853833  | -76.588611 |
| 1005 | SAN FERNANDO P [23077050]        | 5.890000  | -74.613333 |
| 1306 | SANTA ROSA HACIENDA [21080070]   | 2.636917  | -75.580917 |
| 2355 | BOCAS DE NAPI [53040010]         | 2.485667  | -77.773000 |
| 1567 | BOCAS DE PATIA [53060010]        | 2.788750  | -77.466167 |
| 1461 | SANTO DOMINGO D C [21140140]     | 3.250000  | -74.866667 |
| 917  | AVENTINO EL [24027080]           | 6.500000  | -73.116667 |
| 1917 | MANGA LA HACIENDA [21130170]     | 3.200000  | -75.266667 |
| 1223 | PUERTA COLORADA HD [21100090]    | 2.566667  | -75.300000 |
| 3926 | CARACOLI [26117180]              | 4.550000  | -76.083333 |
| 4296 | PUERTO VALDIVIA [26240150]       | 7.290000  | -75.400000 |
| 921  | PUERTO ARAUJO ALERTAS [23120200] | 6.533889  | -74.082500 |
| 3714 | PILCUAN [52057010]               | 1.021778  | -77.472806 |

|      |                         |            |           |            |
|------|-------------------------|------------|-----------|------------|
| 1754 | SINAI HACIENDA          | [21110310] | 3.333333  | -75.200000 |
| 936  | MAMONAL EL HACIENDA     | [24020150] | 6.576667  | -73.106167 |
| 892  | MERIDA - AUT            | [24027070] | 6.444722  | -73.158333 |
| 3872 | PUENTE PESCADERO        | [26237050] | 7.088333  | -75.695917 |
| 3775 | SAN ALBERTO             | [23197090] | 7.516667  | -73.516667 |
| 855  | AGARA                   | [26217060] | 6.350000  | -75.833333 |
| 989  | CEPITA                  | [24037500] | 6.750000  | -72.983333 |
| 1800 | MUNDO NUEVO             | [35067130] | 4.852833  | -73.392972 |
| 1657 | AEROPUERTO FARCA        | [21180220] | 4.150000  | -74.900000 |
| 1698 | CONDOR EL               | [22020070] | 3.328167  | -75.613056 |
| 1745 | PROMIN DC               | [21210070] | 4.300000  | -75.200000 |
| 735  | SAN PEDRO HACIENDA      | [24010770] | 6.116667  | -73.450000 |
| 1093 | PUENTE FORERO           | [35087030] | 5.100206  | -73.250250 |
| 2382 | ALTAMIRA DC HACIENDA    | [21130180] | 3.453611  | -75.150889 |
| 3482 | CODAZZI DC              | [28020460] | 10.044639 | -73.243389 |
| 2784 | SAN DANIEL HACIENDA     | [23190580] | 8.088750  | -73.618778 |
| 640  | CURUMANI D C            | [25021580] | 9.183333  | -73.533333 |
| 437  | SAMARKANDA              | [23190550] | 7.700000  | -73.533333 |
| 1244 | MAPORITA LA DC HACIENDA | [21170030] | 3.947222  | -74.856889 |
| 2145 | SAN AGUSTIN             | [21137080] | 3.750000  | -75.216667 |
| 2127 | CRISTALINA LA HACIENDA  | [21060100] | 2.317167  | -75.503583 |
| 1337 | AEROPUERTO BARROSO DC   | [21180240] | 4.016667  | -74.966667 |
| 1889 | BAMBU EL MOLINO         | [21180230] | 4.200000  | -75.000000 |
| 3446 | TAMALAMEQUE D C         | [25021590] | 8.866667  | -73.816667 |
| 3238 | BOSCONIA                | [28040030] | 9.975750  | -73.881750 |
| 2831 | NUEVO MUNDO DC HACIENDA | [28020470] | 9.833333  | -73.266667 |
| 3402 | AGUAS CLARAS D C        | [23210150] | 8.300000  | -73.616667 |
| 2235 | CEROS                   | [26110300] | 4.616389  | -76.034444 |
| 834  | VILLA DE LEIVA - AUT    | [24015300] | 5.655833  | -73.543944 |
| 3246 | GINDRAMA - AUT          | [11027050] | 5.521556  | -76.517722 |
| 1006 | EL SIETE - AUT          | [11027030] | 5.862000  | -76.152056 |
| 3190 | RADIAL PPAL 4           | [29037670] | 9.950000  | -75.300000 |
| 3191 | COMPUERTA RADIAL        | [29037660] | 9.950000  | -75.283333 |
| 1058 | BOCAS                   | [22017030] | 3.472917  | -75.665556 |
| 1059 | ESPERANZA LA            | [22037010] | 3.473083  | -75.580944 |
| 3193 | ALTAMIRA                | [29037470] | 9.966667  | -75.333333 |
| 1053 | PUENTE LA HAMACA        | [22057050] | 3.463500  | -75.523250 |
| 2186 | MACHETA GRANJA AGROP    | [35070230] | 5.075111  | -73.579417 |
| 138  | PUENTE LA CABANA        | [35217030] | 5.437944  | -72.455222 |
| 3250 | PUERTO SANTANDER        | [29037460] | 10.010000 | -75.320000 |
| 2363 | ARRAYANES LOS           | [11027040] | 5.800000  | -76.300000 |
| 2117 | CARACOL EL              | [35070200] | 5.050000  | -73.383333 |
| 1397 | JENESANO                | [35070220] | 5.416667  | -73.366667 |
| 1235 | MOLINO MURRA            | [22050090] | 3.923139  | -75.021194 |
| 1680 | SAN MIGUEL              | [23050100] | 5.730750  | -74.726083 |
| 3675 | SAN PEDRO - AUT         | [52057050] | 1.383000  | -77.482278 |
| 2037 | TORIBIO ALERTAS         | [26040260] | 2.952361  | -76.262222 |
| 1458 | YURUMANGUI S ANTON      | [53080010] | 3.260667  | -77.259250 |
| 1902 | CONCHA LA               | [53080020] | 3.167361  | -77.135722 |
| 2220 | TIGRE EL                | [53090040] | 3.679611  | -77.067778 |
| 209  | COVENAS - AUT           | [13095010] | 9.383333  | -75.666667 |
| 2593 | ACACIAS LAS HACIENDA    | [25010110] | 8.006111  | -75.647222 |
| 1834 | ANGOSTURA               | [53077030] | 2.900000  | -77.100000 |
| 1732 | NOANAMITO               | [53070050] | 3.077139  | -77.536056 |
| 1061 | SILVA                   | [53090030] | 3.479694  | -77.208222 |

|      |                               |           |            |
|------|-------------------------------|-----------|------------|
| 1386 | PUENTE CARRETERA [35217040]   | 5.402611  | -72.329167 |
| 3743 | BERRUECOS [5204016]           | 1.505278  | -77.135306 |
| 2857 | YARUMAL [26237080]            | 7.016667  | -75.650000 |
| 3348 | TAMBOR EL HACIENDA [23190570] | 7.300000  | -73.250000 |
| 1282 | NEGRA LA [35197060]           | 5.333333  | -72.716667 |
| 3504 | RADIAL PPAL 12 [29037480]     | 10.100000 | -75.266667 |
| 919  | SOPETAN [26237060]            | 6.516667  | -75.750000 |
| 3104 | VALLE EL [26237090]           | 7.066667  | -75.683333 |
| 976  | BURATA [24047010]             | 6.716667  | -73.266667 |
| 4298 | COQUERA LA [26240160]         | 7.960000  | -75.200000 |
| 1495 | RANCHERIAS [35197050]         | 5.446861  | -72.704222 |
| 4068 | RADIAL PPAL 6 [29037500]      | 10.033333 | -75.283333 |
| 916  | PLAYA LA [24017650]           | 6.500000  | -73.283333 |
| 3426 | TORNO EL HACIENDA [25021470]  | 8.576389  | -75.089722 |
| 3488 | RADIAL PPAL 8 [29037490]      | 10.050000 | -75.266667 |
| 3180 | GLORIA LA [11155020]          | 8.266667  | -77.066667 |
| 2255 | ARRANCAPLUMAS [21230090]      | 5.202750  | -74.729278 |
| 3674 | VIVERO LINARES [52050140]     | 1.348056  | -77.526111 |
| 3221 | ACANDI [11150030]             | 8.530833  | -77.276944 |
| 3627 | PILISPI [51027020]            | 1.206083  | -77.985139 |
| 4147 | MONTECRISTO [21010210]        | 1.713806  | -76.188917 |
| 1907 | PISTA LA [32080020]           | 3.150000  | -72.966667 |
| 316  | MONOPAMBA - AUT [47017110]    | 0.807778  | -77.306944 |
| 1886 | EL PALMAR [35027200]          | 4.208472  | -73.815417 |
| 1786 | GUACAPATE [35027190]          | 4.314306  | -73.874944 |
| 1869 | CASETEJA-DELICIAS [35027210]  | 4.195278  | -73.768889 |
| 1359 | MONTANA LA [26127120]         | 4.733333  | -75.833333 |
| 2543 | JOYAS LAS [47017130]          | 0.883333  | -77.150000 |
| 3750 | VILLALOBOS TV [21010240]      | 1.533333  | -76.233333 |
| 2435 | SAN ANTONIO DEL PE [21030110] | 2.077750  | -75.681944 |
| 3630 | PALPIS [51027040]             | 1.223722  | -78.053250 |
| 547  | SAN ROQUE ALERTAS [25021380]  | 9.070000  | -74.150000 |
| 3634 | QUELVI [51027030]             | 1.210833  | -78.110000 |
| 1222 | PUENTE COETANDO [21057070]    | 2.566667  | -75.983333 |
| 3643 | SULCHOMISCO [21010200]        | 1.850306  | -76.317556 |
| 789  | PURGATORIO [26227010]         | 6.866667  | -75.866667 |
| 3831 | BOLOMBOLO [26200130]          | 5.970000  | -75.840000 |
| 3652 | ESCUELA BELEN [21010170]      | 1.901389  | -76.172500 |
| 3699 | HORNITOS [21010250]           | 1.980000  | -76.250000 |
| 3654 | BETANIA TV [21010230]         | 1.905806  | -76.304250 |
| 4377 | VISO EL [21020040]            | 2.020000  | -75.910000 |
| 3728 | MORELIA [21010220]            | 2.065889  | -76.185000 |
| 2350 | PUENTE ITAIBE [21057090]      | 2.466667  | -75.833333 |
| 2752 | CEDRAL EL [26237110]          | 6.880472  | -75.672472 |
| 1224 | BOLIVIA LA [32100010]         | 2.566667  | -72.633333 |
| 3832 | LA PINTADA ALERTAS [26180220] | 5.730000  | -75.599997 |
| 4134 | PASO DEL COLEGIO [21077020]   | 2.462556  | -75.566861 |
| 2439 | TARQUI [21040050]             | 2.108833  | -75.822806 |
| 2197 | TRES ESQUINAS [21040060]      | 2.199361  | -75.779361 |
| 1424 | MANSO EL [21097080]           | 2.766667  | -75.350000 |
| 2479 | TABOR EL [21010180]           | 1.695278  | -76.155222 |
| 3991 | INSPECCION BELEN [21050180]   | 2.233333  | -76.166667 |
| 2279 | MEREMBERG HACIENDA [21050190] | 2.218056  | -76.117361 |
| 3522 | ALTAMIRA [28010410]           | 10.383333 | -72.900000 |
| 3388 | SAN PEDRO [12037050]          | 8.277806  | -76.391306 |

|      |                                  |           |            |
|------|----------------------------------|-----------|------------|
| 3292 | PORVENIR [23187250]              | 7.533333  | -73.583333 |
| 4121 | ESPINAL EL [21047020]            | 2.016667  | -75.950000 |
| 4101 | PUENTE CANAL D [47017140]        | 1.193861  | -76.956500 |
| 3358 | ALQUERIA LA [23187270]           | 7.566667  | -73.600000 |
| 1137 | ESCUELA RIOSUCIO [21050200]      | 2.516667  | -76.233333 |
| 3676 | YUNGUILLA [52057060]             | 1.353333  | -77.583500 |
| 4055 | ESTRELLA LA [23187220]           | 7.550000  | -73.583333 |
| 2128 | RIOLORO [21060110]               | 2.321500  | -75.624667 |
| 3642 | ALTO DEL OBISPO [21010190]       | 1.848944  | -76.249722 |
| 1967 | SAN PEDRO [21201250]             | 4.871639  | -73.966667 |
| 1835 | IRLANDA LA [21050210]            | 2.900000  | -76.100000 |
| 3757 | PERICONGO [21027010]             | 2.053167  | -75.851889 |
| 914  | POZOS LOS [23090090]             | 6.500000  | -74.383333 |
| 3287 | TAMARINDO [23187240]             | 7.516667  | -73.566667 |
| 3935 | BAJO GUAYABERO [32047020]        | 2.613694  | -72.813750 |
| 1597 | PUENTE LAS CANAS [35197070]      | 5.586694  | -72.815333 |
| 1220 | RAUDAL DOS [32047010]            | 2.583333  | -72.866667 |
| 492  | MAGUEYES LOS [15067080]          | 10.946722 | -72.772278 |
| 3289 | TOPACIO EL [23187300]            | 7.516667  | -73.500000 |
| 3303 | RETIRADA LA [23187290]           | 7.550000  | -73.566667 |
| 995  | PRADERA LA [23120220]            | 5.870833  | -73.913333 |
| 3170 | CINCHO EL [16047030]             | 8.233333  | -73.050000 |
| 2365 | CHUQUEQUE HACIENDA [24010860]    | 5.816667  | -73.416667 |
| 1251 | QUEBRADA NEGRA [21190340]        | 3.950000  | -74.483333 |
| 728  | CAPILLA LA [24030860]            | 6.100722  | -72.866667 |
| 1528 | PINAR EL [21190310]              | 4.387972  | -74.329917 |
| 373  | GACHANTIVA [24010810]            | 5.750806  | -73.548917 |
| 734  | MAMARUCO [24017710]              | 6.116667  | -73.483333 |
| 1325 | PENAS BLANCAS [21190320]         | 3.983333  | -74.400000 |
| 1184 | PALMASOLA [26100830]             | 4.688417  | -75.961667 |
| 1705 | TULCAN EL [21190350]             | 4.152472  | -74.359750 |
| 1558 | COPER [23120210]                 | 5.474667  | -74.045917 |
| 1160 | CONC L BUSTAMANTE [21160200]     | 3.893056  | -74.570806 |
| 1860 | SAN PEDRO IGUAQUE [24010830]     | 5.640000  | -73.450444 |
| 2503 | ARARACUARA [44147010]            | -0.617361 | -72.382306 |
| 1858 | PANELAS [24010840]               | 5.634381  | -73.386471 |
| 1002 | ANTENA TV RUSIA LA [24030840]    | 5.891639  | -73.082389 |
| 808  | ASERRIO EL [24030850]            | 6.232583  | -72.781194 |
| 993  | PALMA LA [24010850]              | 5.868000  | -73.383833 |
| 1230 | NUNEZ [21190330]                 | 3.905861  | -74.509694 |
| 891  | CHAPETON EL [24030830]           | 6.450000  | -72.616667 |
| 1022 | GUAVATA [24010820]               | 5.961389  | -73.702500 |
| 1142 | PUENTE JUANAMBU - AUT [52047020] | 1.517472  | -77.310333 |
| 2671 | RIO FRIIO K1+130-2 [16047130]    | 8.033333  | -73.216667 |
| 2685 | RIO FRIIO K3+340-1 [16047090]    | 8.050000  | -73.216667 |
| 723  | PAMPLONILLA [24010790]           | 6.083333  | -73.383333 |
| 2779 | RIO FRIIO K4+050-1 [16047140]    | 8.083333  | -73.216667 |
| 2686 | RIO FRIIO K2+290-1 [16047100]    | 8.050000  | -73.216667 |
| 2900 | ROTAMBRIA [37037020]             | 7.016667  | -72.283333 |
| 2687 | RIO FRIIO K3+440-2 [16047120]    | 8.050000  | -73.216667 |
| 2683 | CANAL 01-15 R4 K0 [16047040]     | 8.050000  | -73.216667 |
| 2672 | RIO FRIIO K1+030-1 [16047150]    | 8.033333  | -73.216667 |
| 2684 | CANAL 01-06 R1 K0 [16047080]     | 8.050000  | -73.216667 |
| 920  | LOMA LA [11085010]               | 6.533333  | -76.983333 |
| 2611 | CANAL RIO FRIIO BOC [16047070]   | 8.033333  | -73.216667 |

|      |                         |            |           |            |
|------|-------------------------|------------|-----------|------------|
| 4184 | FLORESTA ALTO           | [16027220] | 8.166667  | -72.466667 |
| 2884 | BUENA ESPERANZA         | [16027200] | 8.150000  | -72.483333 |
| 3123 | LONDRES BAJO            | [16027190] | 8.216667  | -72.516667 |
| 2882 | FLORENZA ALTO           | [16027080] | 8.150000  | -72.483333 |
| 2888 | FLORENZA INTERMEDI      | [16027210] | 8.166667  | -72.466667 |
| 2883 | LONDRES ALTO            | [16027180] | 8.150000  | -72.483333 |
| 2698 | K 0+200                 | [16027030] | 8.066667  | -72.583333 |
| 2807 | Z-6                     | [16027170] | 8.100000  | -72.533333 |
| 3178 | DEFENSA CIVIL           | [16050180] | 8.250000  | -73.366667 |
| 4023 | K 5+700                 | [16027040] | 8.083333  | -72.550000 |
| 2808 | Z-5                     | [16027260] | 8.100000  | -72.533333 |
| 2689 | BOCATOMA OROQUE         | [16047110] | 8.050000  | -73.183333 |
| 2781 | Z-1                     | [16027230] | 8.083333  | -72.566667 |
| 2788 | Z-3                     | [16027240] | 8.083333  | -72.550000 |
| 2789 | Z-4                     | [16027250] | 8.083333  | -72.550000 |
| 2695 | RIO FRIO K6+520-1       | [16047060] | 8.066667  | -73.216667 |
| 2697 | CANAL 02-07 KO          | [16047050] | 8.066667  | -73.200000 |
| 2796 | ASTILLEROS              | [16027160] | 8.100000  | -72.583333 |
| 2573 | GUAYABAL                | [15070230] | 11.440111 | -72.553778 |
| 2780 | ZUMALLERO BAJO          | [16027150] | 8.083333  | -72.583333 |
| 2696 | RIO FRIO K6+650-2       | [16047160] | 8.066667  | -73.216667 |
| 2699 | ZUMALLERO ALTO          | [16027140] | 8.066667  | -72.583333 |
| 2806 | K 8+000                 | [16027050] | 8.100000  | -72.533333 |
| 3633 | PIPIGUAY                | [51027050] | 1.236944  | -78.097222 |
| 3826 | VALENCIA                | [44017040] | 1.900417  | -76.668750 |
| 3604 | RIOGRANDE - CAUCA       | [44017050] | 1.705000  | -76.643611 |
| 2383 | GAITAN                  | [22010070] | 3.576806  | -75.742611 |
| 1038 | PAZ DE RIO              | [24037510] | 6.000278  | -72.782222 |
| 2477 | SALI - AUT              | [52067010] | 1.685472  | -77.977889 |
| 3602 | SANTA ROSA - AUT        | [44017070] | 1.705000  | -76.562222 |
| 3649 | PAPAS                   | [44017060] | 1.884444  | -76.692778 |
| 1947 | TIBAR EL                | [21201270] | 4.816667  | -74.233333 |
| 3099 | ARIGUANI HACIENDA - AUT | [28017120] | 10.574194 | -73.397000 |
| 3605 | CURIACO                 | [44017090] | 1.705000  | -76.624444 |
| 15   | SAN JUAN MIRA - AUT     | [51027060] | 1.423889  | -78.670278 |
| 576  | CERREJON CARBOCOL       | [15060280] | 11.000000 | -72.666667 |
| 1125 | SANGARAL                | [53047010] | 2.507361  | -77.693250 |
| 2754 | SEGOVIA                 | [37037030] | 6.866667  | -72.366667 |
| 2216 | AGUACLARA               | [53107040] | 3.669222  | -76.944167 |
| 3327 | CASA BOMBA              | [24057060] | 7.100000  | -73.800000 |
| 3146 | PUENTE HERNANDEZ        | [37027020] | 7.250000  | -72.583333 |
| 2272 | VISTA HERMOSA           | [35090050] | 5.003500  | -73.049722 |
| 498  | GUAICARAMO - AUT        | [35107040] | 4.689094  | -73.046519 |
| 289  | LA REVENTONERA          | [35097090] | 4.904972  | -73.047611 |
| 2348 | MOMBITA PUENTE ROMERA   | [35097100] | 5.250000  | -72.950000 |
| 1562 | CUATRO COPAS            | [24017730] | 5.466667  | -73.533333 |
| 2032 | GUAYABAL                | [53077020] | 2.993611  | -77.491389 |
| 2527 | CHURUYACO               | [47020020] | 0.476972  | -77.099722 |
| 3069 | BARBACOAS               | [29037620] | 10.233333 | -75.516667 |
| 375  | SENA                    | [24030940] | 5.756056  | -72.907889 |
| 771  | NORMANDIA HACIENDA      | [27015200] | 6.783333  | -75.116667 |
| 2524 | ANGOSTURAS              | [47030010] | 0.395417  | -76.336139 |
| 2521 | SAN MIGUEL              | [47020010] | 0.279278  | -76.927250 |
| 4372 | OROCUE                  | [35220030] | 4.790000  | -71.330000 |
| 2531 | TIGRE EL                | [47020030] | 0.483333  | -76.816667 |

|      |                           |            |           |            |
|------|---------------------------|------------|-----------|------------|
| 3060 | KILOMETRO 107             | [29037610] | 10.228056 | -75.523056 |
| 874  | NOQUE LA                  | [26205060] | 6.400000  | -75.833333 |
| 1200 | CAZADERO                  | [35090060] | 5.283333  | -72.983333 |
| 3664 | SANTA LUCIA               | [44010080] | 0.961556  | -76.441361 |
| 3635 | CONDAGUA                  | [44010090] | 1.280500  | -76.584194 |
| 3334 | PUEENTE BAGRE             | [27030240] | 7.116667  | -74.600000 |
| 4006 | PINUNA BLANCA             | [47035010] | 0.383333  | -76.166667 |
| 1437 | HIMAT R 6                 | [35030070] | 4.083333  | -73.566667 |
| 3783 | ANGOSTURAS - RÍO PUTUMAYO | [44017100] | 0.395417  | -76.336139 |
| 1380 | AFRICA SUPERIOR           | [21245060] | 4.750000  | -75.383333 |
| 2534 | JOYA LA                   | [47017150] | 0.788750  | -76.579306 |
| 1381 | AFRICA ABAJO              | [21245050] | 4.750000  | -75.350000 |
| 1530 | HOTEL TERMALES            | [26135180] | 4.833333  | -75.550000 |
| 1491 | LAGUNA LA                 | [26135140] | 4.776417  | -75.412500 |
| 2108 | BARBOSA TERMALES          | [35077140] | 5.049722  | -73.526972 |
| 1480 | AFRICA LA LINEA           | [21245070] | 4.766667  | -75.383333 |
| 1293 | GUAMO DE SISBACA          | [35090070] | 5.366667  | -72.916667 |
| 2529 | PUEENTE TEXAS             | [47017160] | 0.582694  | -76.576944 |
| 2652 | CENICANA                  | [26075080] | 3.360417  | -76.299722 |
| 1578 | SAN REMO                  | [26135160] | 4.841667  | -75.579972 |
| 1493 | BOQUERON EL               | [26135170] | 4.783333  | -75.383333 |
| 1584 | JARDIN EL                 | [26135240] | 4.850000  | -75.550000 |
| 3823 | PINILLOS                  | [25027740] | 8.911389  | -74.457778 |
| 1492 | PANTANOS LOS              | [26135190] | 4.783333  | -75.400000 |
| 2367 | CRECIENTE LA              | [24031040] | 5.816667  | -72.983333 |
| 1583 | MIRANDA LA                | [26135150] | 4.850000  | -75.550000 |
| 1391 | VILLA LUISA               | [35075030] | 5.422222  | -73.349417 |
| 1585 | JARDIN EL                 | [26130360] | 4.850000  | -75.550000 |
| 1470 | PUEENTE VENADO            | [21147050] | 3.283944  | -74.908222 |
| 2418 | CHAPASIA                  | [35087060] | 5.164111  | -73.091528 |
| 2012 | CASA DE MAQUINAS          | [35087070] | 4.900000  | -73.233333 |
| 1351 | ORCHORAL                  | [21245110] | 4.716667  | -75.166667 |
| 1081 | CEIBAL EL                 | [35097080] | 5.081389  | -73.034167 |
| 321  | LAS BRISAS - AUT          | [26155150] | 4.934528  | -75.350389 |
| 3873 | OLAYA                     | [26237100] | 6.644944  | -75.826167 |
| 1490 | PICO PARAMO SANTA R       | [26135230] | 4.783333  | -75.450000 |
| 1271 | SANTA ISABEL              | [21245140] | 4.711861  | -75.094456 |
| 1352 | ALTO PURIMA               | [21245120] | 4.716667  | -75.100000 |
| 1353 | SAN JOSE                  | [21245150] | 4.716667  | -75.066667 |
| 675  | AEROPUERTO INTERCOR       | [15065090] | 11.166667 | -72.500000 |
| 575  | CAMPAMENTO                | [15067090] | 11.000000 | -72.666667 |
| 192  | LA UCHEMA - AUT           | [16017030] | 7.694222  | -72.474000 |
| 2191 | PASQUILLA                 | [21201580] | 4.446500  | -74.154833 |
| 2404 | CHOACHI                   | [35020280] | 4.522917  | -73.926583 |
| 1489 | PARAMO SANTA ROSA         | [26135200] | 4.783333  | -75.616667 |
| 1718 | ESCUELA COL INGENIERIA    | [21201570] | 4.783333  | -74.050000 |
| 1363 | PLAYA LA                  | [21245080] | 4.733333  | -75.333333 |
| 2805 | LIMONCITO                 | [16020510] | 8.100000  | -72.566667 |
| 2097 | FOMEQUE                   | [35020290] | 4.486528  | -73.890417 |
| 1349 | TOTARITO                  | [21245100] | 4.716667  | -75.266667 |
| 1350 | ERMITA LA                 | [21245090] | 4.716667  | -75.250000 |
| 1778 | LADERA W SANTA ROSA       | [26135210] | 4.800000  | -75.633333 |
| 1009 | BETEITIVA                 | [24035020] | 5.907278  | -72.810611 |
| 4032 | SALIDA EMB GRANDE         | [29037680] | 9.883333  | -75.350000 |
| 2851 | MURINDO                   | [11100030] | 7.000000  | -76.750000 |



|      |                              |            |           |            |
|------|------------------------------|------------|-----------|------------|
| 1018 | LINDA LA                     | [23080790] | 5.950000  | -75.283333 |
| 1404 | HIDROBETANIA                 | [21090130] | 2.700000  | -75.433333 |
| 2487 | ESPERANZA PRADERA            | [26070170] | 3.527194  | -76.210833 |
| 1092 | EL TRUENO                    | [31015010] | 2.372778  | -72.640000 |
| 4054 | BELLEZA LA                   | [28047080] | 10.333333 | -73.950000 |
| 2801 | AGRADO EL                    | [25021610] | 9.685667  | -74.504861 |
| 3271 | TIOGOLLO                     | [29050010] | 10.344417 | -74.732111 |
| 2800 | IRAN                         | [25021620] | 9.683778  | -74.322167 |
| 2815 | NUEVA GRANADA                | [25021630] | 9.801750  | -74.388556 |
| 399  | PUENTE SEVILLA - AUT         | [29067160] | 10.798833 | -74.028583 |
| 2614 | CASA BOMBAS                  | [13077110] | 9.300000  | -75.900000 |
| 832  | VIVERO EL                    | [27015210] | 6.283333  | -75.500000 |
| 3449 | SAN RAFAEL                   | [29060540] | 10.590611 | -74.647000 |
| 1841 | SAN RAFAEL                   | [35070510] | 4.866667  | -73.383333 |
| 347  | HATO GRANDE HACIENDA         | [35070490] | 4.959389  | -73.584361 |
| 2265 | CAMPO REAL                   | [35070500] | 4.995778  | -73.381528 |
| 2964 | APURE                        | [25021600] | 9.872500  | -74.580389 |
| 360  | INSTITUCION AGRICOLA MACANAL | [35075040] | 4.974361  | -73.316750 |
| 1551 | POMARROSOS LOS               | [35070520] | 4.931417  | -73.350361 |
| 1117 | TULENAPA - AUT               | [12015060] | 7.770000  | -76.670000 |
| 345  | ESCUELA LOS MOLINOS          | [35070470] | 4.950417  | -73.410167 |
| 2260 | ESPERANZA LA                 | [35070480] | 5.004333  | -73.200722 |
| 3346 | SANTA RITA                   | [26220110] | 7.323750  | -75.616861 |
| 696  | RIOGRANDE                    | [12015050] | 7.916667  | -76.633333 |
| 790  | PATIO BONITO                 | [23080800] | 6.183333  | -74.900000 |
| 815  | JORDAN EL                    | [23080810] | 6.249500  | -74.828111 |
| 1740 | CANAL PALO                   | [26047100] | 3.083333  | -76.350000 |
| 848  | VIOLETAS LAS                 | [23085210] | 6.348889  | -75.002778 |
| 1032 | PLATA LA                     | [26205070] | 5.983333  | -75.816667 |
| 3352 | PLAYALTA                     | [26240170] | 7.562556  | -75.448556 |
| 445  | URRA 2                       | [13015010] | 7.733333  | -76.200000 |
| 4058 | PALMAR EL                    | [26225050] | 7.116667  | -75.666667 |
| 2188 | LA POYATA                    | [35187010] | 4.441833  | -72.152389 |
| 2992 | JORDAN EL                    | [16030130] | 8.366667  | -72.900000 |
| 774  | BANADIA                      | [36030040] | 6.800000  | -71.833333 |
| 1710 | GRANJA LA HACIENDA           | [21190410] | 4.164611  | -74.587333 |
| 935  | MORICHAL                     | [36030030] | 6.570639  | -71.707639 |
| 2316 | PATAGONIA LA                 | [35207010] | 4.566667  | -71.833333 |
| 1182 | ROMERENA LA                  | [35207020] | 4.683333  | -71.583333 |
| 1797 | SAN JOSE                     | [35177030] | 4.850000  | -71.166667 |
| 1602 | VUELTA MALA                  | [35267060] | 5.583333  | -70.283333 |
| 1398 | PUERTO MISTER                | [35267040] | 5.416667  | -70.600000 |
| 1188 | SANTA MARIA                  | [35267030] | 5.270833  | -70.705583 |
| 1297 | HATO BURRUNAY                | [35267100] | 5.366667  | -70.666667 |
| 978  | RONCADOR                     | [38017030] | 5.858028  | -67.576056 |
| 1104 | LA BALSORA                   | [32037010] | 2.438389  | -73.932278 |
| 2449 | LA MACARENA                  | [32037030] | 2.185639  | -73.792250 |
| 778  | PUERTO CARREÑO               | [38017010] | 6.176528  | -67.479583 |
| 794  | PATEVACAL                    | [35257020] | 6.176056  | -69.128722 |
| 784  | ACEITICO                     | [35257040] | 6.183556  | -68.441472 |
| 1045 | SAN JORGE                    | [35267090] | 6.010278  | -69.844500 |
| 1050 | PARAISO PEREGRINO            | [36037010] | 6.041778  | -69.638750 |
| 3914 | SAN JOSE                     | [38017020] | 6.050000  | -67.466667 |
| 1524 | QUINTA LA                    | [21255140] | 4.821500  | -74.920639 |
| 2210 | CATALINA LA                  | [32047030] | 2.354667  | -73.580944 |

|      |                                     |           |            |
|------|-------------------------------------|-----------|------------|
| 3953 | CANDILEJAS [32087040]               | 2.833333  | -73.083333 |
| 2478 | SANTA ROSA [44010100]               | 1.694833  | -76.571222 |
| 1619 | PUERTO INFANTE [35267070]           | 5.700000  | -70.033333 |
| 743  | PUERTO FORTUNA [35257030]           | 6.150000  | -68.780000 |
| 4373 | AGUAVERDE [35267080]                | 5.790000  | -69.990000 |
| 4136 | MAPIRIPANA [32157010]               | 2.800000  | -70.533333 |
| 3570 | BRISAS LAS [27011100]               | 7.158806  | -74.821833 |
| 2088 | GUACO [32147010]                    | 3.400000  | -70.116667 |
| 1826 | MUCUARE [32107020]                  | 2.866667  | -71.533333 |
| 1828 | MAPIRIPAN [32097010]                | 2.889722  | -72.130111 |
| 1845 | SAN ISIDRO [11035020]               | 5.626167  | -76.749722 |
| 1879 | MAPIRRIARE [32157020]               | 2.916667  | -70.283333 |
| 1640 | TRAPICHE EL [32117010]              | 2.833333  | -70.666667 |
| 1916 | LAGUNA EL CEJAL [32157030]          | 3.183333  | -70.166667 |
| 3970 | BERLIN [26135260]                   | 4.816667  | -75.516667 |
| 3969 | SIERRA LA [26135250]                | 4.800000  | -75.483333 |
| 281  | PUERTO UMBRIA [47015070]            | 0.838972  | -76.570444 |
| 3716 | ANDAQUI - AUT [44017110]            | 1.050917  | -76.548889 |
| 814  | PUEBLO VIEJO [24020230]             | 6.248778  | -72.946722 |
| 2629 | LIBRA ARRIBA [25027090]             | 9.333333  | -75.183333 |
| 749  | PAVAS LAS [24020220]                | 6.152722  | -72.964583 |
| 742  | TAFETANES [23080820]                | 6.146722  | -75.117750 |
| 750  | SAN CARLOS [23085220]               | 6.157667  | -75.038917 |
| 972  | BOQUERON DE TOYO [11110110]         | 6.699444  | -75.977500 |
| 2769 | VILLANUEVA [37050050]               | 6.940278  | -70.265556 |
| 2837 | MATEZAMURO [37050040]               | 6.974167  | -70.851667 |
| 531  | AEROPUERTO LOS CEDROS [12015070]    | 7.816389  | -76.717889 |
| 714  | LA AURORA [35250010]                | 6.095611  | -69.423417 |
| 1214 | LA MARIPOSA [32010010]              | 2.562833  | -74.103083 |
| 4186 | BUENAVISTA HACIENDA [21080120]      | 2.650000  | -75.733333 |
| 326  | MOTILON - AUT [21117110]            | 2.805583  | -75.085556 |
| 3875 | TOTUMO EL HACIENDA [21080130]       | 2.593750  | -75.621194 |
| 2129 | RAUDAL UNO [32030020]               | 2.322500  | -73.943889 |
| 2164 | PUERTO TEXAS [35180050]             | 4.418278  | -71.960806 |
| 2415 | BONANZA [35260010]                  | 5.143306  | -70.854500 |
| 2240 | RANCHO EL [21210100]                | 4.600306  | -75.330444 |
| 1817 | SANTA HELENA [21110400]             | 2.851139  | -75.108194 |
| 3502 | PAVA [29037740]                     | 10.083333 | -75.250000 |
| 1039 | SAN JORGE [35260080]                | 6.010306  | -69.843889 |
| 39   | PUEBLO NUEVO - AUT [21117100]       | 2.827444  | -75.088833 |
| 1077 | SAN VICENTE DEL COMBEIMA [21217220] | 4.540139  | -75.314528 |
| 754  | ACEITICO [35250040]                 | 6.175417  | -68.394361 |
| 1833 | CARDO 2 EL [21090140]               | 2.883333  | -75.383333 |
| 2178 | YULDAIMA [21217260]                 | 4.438500  | -75.242806 |
| 4407 | PUEBLO NUEVO [32150040]             | 3.420000  | -69.890000 |
| 4471 | HACIENDA VENECIA - AUT [21087080]   | 2.640000  | -75.540000 |
| 2388 | ARABIA ARRECIFAL [32190010]         | 3.637139  | -69.055306 |
| 1316 | BAJO NARE [35010230]                | 3.984639  | -72.971222 |
| 4359 | GUAYARE [31090010]                  | 3.960000  | -67.840000 |
| 1836 | PALMA LA [21117120]                 | 2.900000  | -75.133333 |
| 4360 | CEJAL [32200010]                    | 3.990000  | -68.320000 |
| 1998 | VILLARANZA [21115150]               | 2.933333  | -75.200000 |
| 4364 | FUNDO NUEVO HUMAPO [35180030]       | 4.330000  | -72.390000 |
| 1574 | COLONIA LA HACIENDA [21110410]      | 2.800000  | -75.083333 |
| 2403 | PLACER EL [21210110]                | 4.520944  | -75.277889 |

|      |                                   |           |            |
|------|-----------------------------------|-----------|------------|
| 4374 | PUERTO FORTUNA [35250030]         | 6.150000  | -68.780000 |
| 1643 | ANTENA CERRO NEIVA [21110420]     | 2.850000  | -75.200000 |
| 1575 | MAPIRIPANA [32150010]             | 2.800000  | -70.533333 |
| 1980 | VUELTA MALA [35260050]            | 5.561361  | -70.280639 |
| 725  | BOCATOMA [21217250]               | 4.460000  | -75.260000 |
| 4387 | SAN JOSE HACIENDA [21080110]      | 2.580000  | -75.720000 |
| 3272 | SAN ANGEL [28030220]              | 10.347056 | -73.444139 |
| 4399 | ESPERANZA LA [29037760]           | 9.870000  | -75.280000 |
| 1543 | MACUCUANA [35220040]              | 4.908167  | -71.531389 |
| 1138 | BOCAS DEL DUDA [32020010]         | 2.533333  | -73.933333 |
| 2282 | AGUAVERDE [35260070]              | 5.790000  | -69.990000 |
| 2407 | BOCATOMA [21217230]               | 4.533333  | -75.300000 |
| 2098 | ESMERALDA LA [21210120]           | 4.490917  | -75.239417 |
| 1097 | ISLA DEL MUERTO [32040020]        | 2.374278  | -73.166389 |
| 1114 | BALSORA LA [32030010]             | 2.438389  | -73.932278 |
| 1735 | TIERRA GRATA [32070080]           | 3.087500  | -73.226389 |
| 3966 | HATO BERMEJO [21117130]           | 2.916667  | -75.166667 |
| 4352 | SAN CRISTOBAL [29037770]          | 9.890000  | -75.250000 |
| 1286 | HATO BURRUNAY [35260030]          | 5.351944  | -70.678278 |
| 4323 | GIRONDA LA HACIENDA [21110430]    | 2.910000  | -75.120000 |
| 781  | PATEVACAL [35250020]              | 6.176611  | -69.127806 |
| 2963 | MESITA [29037750]                 | 9.871944  | -75.303333 |
| 2311 | CALIFORNIA [21217210]             | 4.566667  | -75.333333 |
| 1690 | PUERTO INFANTE [35260060]         | 5.733333  | -70.033333 |
| 1572 | PASARELA [21097100]               | 2.783333  | -75.333333 |
| 1531 | CHORRILLO [21250560]              | 4.833333  | -74.816667 |
| 1945 | MANGON EL [21250620]              | 4.816667  | -74.916667 |
| 1946 | GAMBA [21250600]                  | 4.816667  | -74.766667 |
| 1933 | BOQUERON [21250580]               | 4.800000  | -74.833333 |
| 1481 | PIEDRAS NEGRAS [21250640]         | 4.766667  | -74.800000 |
| 1932 | BALMORAL [21250630]               | 4.800000  | -74.916667 |
| 3239 | MAMPUJAN [29030780]               | 9.983611  | -75.227500 |
| 1588 | IGUACITOS [21250570]              | 4.850000  | -74.850000 |
| 1586 | ESPERANZA LOBONES [21250550]      | 4.850000  | -74.933333 |
| 3946 | BOCATOMA C NORTE [21250540]       | 4.783333  | -74.800000 |
| 3951 | ALSACIA [21250610]                | 4.850000  | -74.783333 |
| 1715 | BOCATOMA C CENTRAL [21250590]     | 4.783333  | -74.783333 |
| 3166 | SANTA CRUZ HACIENDA [26250100]    | 7.500000  | -75.250000 |
| 4072 | COMPUERTAS GUAJARO [29037810]     | 10.400000 | -75.066667 |
| 2512 | CONCEPCION [47030020]             | 0.046944  | -75.629722 |
| 2535 | MONOPAMBA [47015080]              | 0.804917  | -77.303611 |
| 4400 | COMPUERTAS CANAL DIQUE [29037800] | 10.410000 | -75.070000 |
| 4041 | CASA DE BOMBAS [29037790]         | 10.500000 | -75.116667 |
| 3687 | GUAYACANA LA [51020050]           | 1.414611  | -78.437389 |
| 3678 | MATAJE [51020040]                 | 1.362167  | -78.715917 |
| 2465 | COCO EL [51030020]                | 1.633722  | -78.629861 |
| 613  | CANELOS - AUT [23205050]          | 7.885417  | -74.240972 |
| 1736 | CASCADA LA [21210150]             | 4.284389  | -75.542333 |
| 2195 | REMOLINO GRANDE [52090020]        | 2.190361  | -78.416389 |
| 2990 | PUENTE SAN MIGUEL [16037050]      | 8.368306  | -72.586111 |
| 4093 | PRIMAVERA LA [47015090]           | 1.168306  | -76.932694 |
| 1527 | PLAN EL [21210140]                | 4.383750  | -75.496861 |
| 2287 | PUERTO LLERAS [21160180]          | 3.839778  | -74.688306 |
| 2931 | ESTANCIA LA [16035040]            | 8.333333  | -72.650000 |
| 1569 | GUADUAL EL [21110440]             | 2.795667  | -75.239278 |

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|------|--------------------|------------|-----------|------------|
| 2594 | BARRANCA LEBRIJA   | [23190710] | 8.011833  | -73.724444 |
| 3707 | SALAHONDA          | [52090010] | 2.038889  | -78.658333 |
| 1333 | MATEGUADUA         | [26105230] | 4.028333  | -76.168528 |
| 3745 | VERGEL EL          | [52060040] | 1.529167  | -77.641694 |
| 3422 | MELLITO EL         | [12025030] | 8.542667  | -76.673361 |
| 3616 | MAGUI              | [52070010] | 1.765000  | -78.183889 |
| 2993 | TAMBORES           | [16037060] | 8.366667  | -72.683333 |
| 2385 | LLANITOS           | [21160160] | 3.620556  | -74.799722 |
| 3661 | RICAUARTE          | [52070020] | 1.900000  | -78.083333 |
| 3507 | MATA LA            | [23215050] | 8.614444  | -73.636389 |
| 1233 | MESAS LAS          | [21170040] | 3.912139  | -74.822444 |
| 1107 | CHARCO EL          | [53020010] | 2.441889  | -78.091333 |
| 1472 | DELICIAS LAS       | [21210130] | 4.380333  | -75.511750 |
| 762  | OCULTA LA          | [26230220] | 6.779389  | -75.638583 |
| 2618 | UNISUCRE           | [25025270] | 9.316389  | -75.387500 |
| 1124 | MOSQUERA           | [53010020] | 2.505083  | -78.454528 |
| 2437 | SAN JOSE DE TAPAJE | [53020020] | 2.079278  | -78.112861 |
| 2223 | FIQUE EL           | [21160170] | 3.709333  | -74.790833 |
| 2401 | LA RAYA            | [33050020] | 4.516111  | -69.605833 |
| 1267 | MOLINOS DEL NORTE  | [21206150] | 4.700000  | -74.050000 |
| 1108 | ESCUELA RIOSUCIO 2 | [21050310] | 2.446833  | -76.168917 |
| 1429 | UNILLANOS          | [35035070] | 4.076722  | -73.582000 |
| 2673 | PASO DE LOS RIOS   | [16017040] | 8.033333  | -72.416667 |
| 4019 | SANSAIMO HACIENDA  | [28045030] | 9.583333  | -73.783333 |
| 2895 | CEEZ ICA           | [16025070] | 8.183333  | -72.516667 |
| 2777 | SAN FAUSTINO       | [16010330] | 8.066667  | -72.416667 |
| 3827 | LA BALSORA         | [32035020] | 2.438389  | -73.932278 |
| 274  | PEÑAS BLANCAS      | [32077100] | 3.251611  | -73.892833 |
| 2122 | BUENAVISTA         | [38027010] | 5.050000  | -67.816667 |
| 1697 | PEÑAS BLANCAS      | [32070090] | 3.316667  | -73.916667 |
| 2303 | LEJANIAS CASTILLO  | [32060090] | 3.576222  | -74.059639 |
| 1165 | ARABIA ARRECIFAL   | [32197010] | 3.883333  | -68.400000 |
| 2918 | LIBERTAD LA        | [16030150] | 8.327778  | -72.646389 |
| 3805 | MAPIRIPANA         | [32155010] | 2.800000  | -70.533333 |
| 1762 | EL LIMON           | [32077110] | 3.368903  | -74.029611 |
| 2306 | SAN IGNACIO        | [32120010] | 3.734083  | -72.369778 |
| 2064 | VIENTO EL          | [32095010] | 3.200000  | -72.683333 |
| 4408 | CEJAL              | [32207010] | 3.990000  | -68.349997 |
| 4370 | MATAVEN            | [38030010] | 4.549997  | -67.860000 |
| 270  | ISLAS DEL ROSARIO  | [14015060] | 10.183333 | -75.750000 |
| 2921 | DIVISIONES         | [16030140] | 8.342778  | -72.693611 |
| 4404 | GUAYARE            | [31097010] | 3.960000  | -67.830000 |
| 1646 | BUENOS AIRES       | [38037020] | 4.116667  | -67.750000 |
| 4409 | SANTA RITA         | [33060010] | 4.870000  | -68.360000 |
| 2071 | SAN JUAN DE ARAMA  | [32070100] | 3.375083  | -73.891944 |
| 2073 | MESETAS            | [32075050] | 3.380056  | -74.042972 |
| 2217 | SAPUARA            | [32157050] | 3.670611  | -69.360500 |
| 4369 | MATAVEN            | [38037010] | 4.540000  | -67.859997 |
| 1639 | PORORIO EL         | [32080040] | 2.833333  | -72.809333 |
| 4345 | PUEBLO NUEVO       | [32157040] | 3.420000  | -69.890000 |
| 292  | PUERTO NARIÑO      | [38027020] | 4.956861  | -67.834167 |
| 1144 | PUERTO INIRIDA     | [31097020] | 3.867667  | -67.931694 |
| 926  | PALMAR EL          | [24055040] | 6.549722  | -73.292000 |
| 3960 | RONCADOR           | [38010020] | 5.850000  | -67.616667 |
| 2301 | BARRANCO MURCIELAG | [32157060] | 3.571722  | -69.588056 |

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| 809  | SANTA INES [36020030]        | 6.234889  | -71.975500 |
| 720  | PUENTE QUEMADO [36020010]    | 6.088222  | -72.190639 |
| 3916 | CABUYA LA [36027020]         | 6.150000  | -72.016667 |
| 724  | PUENTE QUEMADO [36027010]    | 6.083333  | -72.183333 |
| 817  | SAN SALVADOR [36027040]      | 6.233333  | -71.616667 |
| 828  | SANTA INES [36027030]        | 6.250000  | -72.000000 |
| 733  | CABUYA LA [36020020]         | 6.127917  | -72.010222 |
| 2067 | RUBY EL [29060550]           | 10.845139 | -74.188222 |
| 4402 | YURUPARI [42040010]          | 0.870000  | -71.040000 |
| 2547 | LOS CERROS [42060010]        | 0.910000  | -70.780000 |
| 2546 | LOS CERROS [42067010]        | 0.900000  | -70.770000 |
| 3153 | BARRO BLANCO [26250110]      | 7.474111  | -75.264389 |
| 4353 | YURUPARI [42057010]          | 0.850000  | -71.010000 |
| 2581 | TASAJERO [16010340]          | 7.993028  | -72.461722 |
| 2704 | PUERTO ASIS [25020190]       | 9.431944  | -75.129167 |
| 3503 | RADIAL PASTON [29037880]     | 10.083333 | -75.250000 |
| 3445 | PALACIO EL [16050240]        | 8.610333  | -73.351139 |
| 2712 | PUERTO ASIS [25027300]       | 9.433333  | -75.133333 |
| 300  | TURBO - AUT [12025040]       | 8.091806  | -76.716333 |
| 2318 | HIDROPARAISO [21206160]      | 4.573167  | -74.404833 |
| 2490 | PUERTO CORDOBA [44187010]    | -1.285278 | -69.725500 |
| 2511 | TAGUA LA [44117010]          | -0.057472 | -74.666944 |
| 4005 | ANGOSTURAS [44137060]        | -0.590944 | -72.720639 |
| 4375 | MITU [42077020]              | 1.260000  | -70.240000 |
| 2496 | PUERTO BELEN [44137030]      | -0.915111 | -73.773222 |
| 2497 | MIRANAS LAS [44157020]       | -1.310000 | -70.820000 |
| 2499 | MONOCHOA [44137070]          | -0.700000 | -72.549997 |
| 4354 | PITUNA [42070020]            | 1.310000  | -70.290000 |
| 2500 | PUERTO LAS BRISAS [44137080] | -0.600000 | -72.470000 |
| 3600 | PUERTO TOLIMA [42080010]     | 1.198250  | -69.910861 |
| 2489 | PUERTO CAIMAN [44197010]     | -1.550000 | -70.033333 |
| 2502 | MONOS LOS [44137040]         | -0.628333 | -73.192556 |
| 2504 | PUERTO ZABALO [44137050]     | -0.616667 | -72.966667 |
| 2505 | AGUAZUL [44150010]           | -0.559889 | -72.144944 |
| 3712 | VILLAFATIMA [42070030]       | 0.993722  | -69.910694 |
| 3719 | QUERARI [42080020]           | 1.073944  | -69.843944 |
| 1573 | TRAPICHE EL [32110010]       | 2.783333  | -70.666667 |
| 2509 | CORDOBA [44100010]           | -0.114972 | -74.551833 |
| 2517 | UMANCIA [44127020]           | -0.200000 | -74.290000 |
| 2516 | ESTRECHOS LOS [44127010]     | -0.490000 | -73.530000 |
| 2514 | GUAQUIRA [44137020]          | -0.338917 | -74.014639 |
| 2501 | QUINCHE [44167010]           | -0.932361 | -71.776583 |
| 4342 | PITUNA [42077030]            | 1.300000  | -70.330000 |
| 3726 | MANDI [42050020]             | 1.100000  | -70.730000 |
| 2052 | CASUARITO [38017040]         | 5.682694  | -67.640194 |
| 4454 | SANTA ISABEL [44167020]      | -1.098083 | -71.124056 |
| 4340 | SAN ANTONIO [42077010]       | 1.230000  | -70.730000 |
| 4339 | MANDI [42057020]             | 1.100000  | -70.740000 |
| 4341 | SAN ANTONIO [42070010]       | 1.210000  | -70.710000 |
| 2486 | MARIA MANTECA [44157030]     | -1.420000 | -70.610000 |
| 2485 | MANACARO [44157040]          | -1.530000 | -70.180000 |
| 3879 | PEDRERA LA [44187020]        | -1.313167 | -69.591583 |
| 2267 | CEDROS EL PUENTE [35080120]  | 5.000000  | -73.216667 |
| 1756 | PATA EL [21137090]           | 3.366667  | -75.183333 |
| 3179 | CINCHO EL [16040040]         | 8.250000  | -73.050000 |

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|------|---------------------|------------|-----------|------------|
| 786  | PADILLA             | [23110060] | 6.193611  | -74.333056 |
| 2182 | VALLE GRANDE        | [35070550] | 5.056611  | -73.426917 |
| 2498 | BACURI              | [44187030] | -1.230000 | -69.470000 |
| 3245 | PALMASOLA           | [28040400] | 9.977417  | -73.889306 |
| 2542 | BOQUERON            | [52057070] | 0.816667  | -77.550000 |
| 3967 | CARACOLI            | [21117140] | 3.116667  | -75.033333 |
| 2252 | VIVERO EL           | [35085040] | 5.192556  | -73.144778 |
| 1742 | SANTA HELENA        | [21117160] | 3.083333  | -75.100000 |
| 1387 | CORINTO             | [35195050] | 5.407278  | -72.717222 |
| 1918 | DESQUITE EL         | [21117150] | 3.200000  | -75.033333 |
| 3337 | HIMAT R-11          | [23190800] | 7.116667  | -73.133333 |
| 1510 | GUTIERREZ           | [35020300] | 4.253917  | -74.002694 |
| 2283 | ENEA LA             | [26157070] | 5.033333  | -75.466667 |
| 1099 | PLAYA LA            | [26157090] | 5.100000  | -75.516667 |
| 2281 | CHUPADEROS          | [26157080] | 5.028944  | -75.476167 |
| 2114 | SAN GABRIEL         | [26157100] | 5.119306  | -75.564722 |
| 1554 | SUSA                | [24011060] | 5.462444  | -73.801556 |
| 713  | SALADA LA           | [27015260] | 6.048361  | -75.624667 |
| 1871 | NAZARETH            | [35020310] | 4.172250  | -74.146000 |
| 3870 | COSTA AZUL          | [26167090] | 5.356333  | -75.492861 |
| 2893 | PLAYONA LA          | [12020170] | 8.183333  | -76.650000 |
| 758  | ANGUSTIAS LAS       | [23127070] | 6.166667  | -74.100000 |
| 2158 | CLARETIANO          | [21206170] | 4.600000  | -74.200000 |
| 1194 | GUACARI             | [26167080] | 5.279889  | -75.648361 |
| 1636 | SENA                | [35030030] | 4.127361  | -73.639556 |
| 3751 | MARACAIBO           | [44030070] | 1.533333  | -75.400000 |
| 4391 | LARANDIA            | [44030060] | 1.490000  | -75.490000 |
| 2880 | DOS EL              | [12027060] | 8.126500  | -76.693833 |
| 3722 | SAN ANTONIO GETUCH  | [44050010] | 1.099611  | -75.400333 |
| 757  | MUSINGA             | [11115040] | 6.777972  | -76.203333 |
| 1540 | CHUZO EL            | [21217270] | 4.409222  | -75.433361 |
| 945  | SAN JUAN BEDUTH     | [23090100] | 6.600000  | -74.450000 |
| 722  | SALADO EL           | [23127080] | 6.083333  | -74.116667 |
| 961  | MELITOSA LA         | [23140060] | 6.633333  | -73.800000 |
| 619  | SAN JOSE APARTADO   | [12010160] | 7.866667  | -76.600000 |
| 708  | CHOROMANDO HACIENDA | [12010180] | 7.950000  | -76.583333 |
| 2266 | RIO CLARO           | [26157060] | 5.000000  | -75.550000 |
| 982  | DOS BOCAS HACIENDA  | [23140070] | 6.771944  | -73.616389 |
| 3555 | VESUBIO EL          | [26127140] | 4.774167  | -75.860889 |
| 3589 | EL ENCANO - AUT     | [47015100] | 1.159944  | -77.161472 |
| 3125 | PLAYA LA            | [16055060] | 8.217500  | -73.235000 |
| 4459 | PICUDO EL           | [47017170] | 0.489222  | -76.835972 |
| 2624 | COROZAL             | [25028430] | 9.300000  | -75.283333 |
| 940  | MURILLO             | [23090110] | 6.603056  | -74.395278 |
| 4322 | SAN RAFAEL          | [21085030] | 2.760000  | -75.580000 |
| 1870 | MONO EL             | [53077060] | 2.920056  | -77.223694 |
| 3683 | SANDE EL            | [52060050] | 1.404722  | -77.775833 |
| 9    | LOS NORTES - AUT    | [52077020] | 1.741111  | -77.531111 |
| 952  | RAMBLAS             | [23100070] | 6.642778  | -74.370833 |
| 3670 | CARTAGENA D CHAIRA  | [46040010] | 1.340917  | -74.843556 |
| 4112 | VIVERO CORFONAR     | [52045060] | 1.216667  | -77.233333 |
| 2139 | BOCATOMA TRIANGULO  | [22057090] | 3.763500  | -75.252056 |
| 987  | AMPARO EL           | [23105020] | 6.733333  | -74.400000 |
| 974  | BARCELONA HACIENDA  | [23100060] | 6.700000  | -74.400000 |
| 3746 | VERGEL EL           | [52067030] | 1.529722  | -77.646944 |

|      |                                    |            |           |            |
|------|------------------------------------|------------|-----------|------------|
| 3608 | SANTA ROSA CAGUAN                  | [46015020] | 1.735472  | -74.785056 |
| 1642 | JUNCALITO                          | [21090150] | 2.850000  | -75.316667 |
| 3715 | PUERTO LIMON                       | [44010110] | 1.026806  | -76.541528 |
| 962  | SANTA CLARA                        | [23100080] | 6.650000  | -74.316667 |
| 440  | SANTUARIO EL                       | [24011070] | 6.323933  | -73.467411 |
| 1070 | DARIEN EL                          | [21210160] | 4.466667  | -75.304278 |
| 1308 | CABANA INDERENA                    | [26030030] | 2.640667  | -76.909028 |
| 1152 | PALO GORDO                         | [21170050] | 3.866667  | -74.883333 |
| 3085 | BOCATOMA                           | [28017130] | 10.500000 | -73.266667 |
| 2356 | POLINDARA                          | [26020460] | 2.487583  | -76.404667 |
| 3090 | EMPODUPAR                          | [28017060] | 10.516667 | -73.300000 |
| 3987 | PUENTE CARRETERA                   | [22057080] | 3.683333  | -75.300000 |
| 4410 | SANTA RITA                         | [33077010] | 4.870000  | -68.360000 |
| 2230 | PENON ALTO                         | [21160190] | 3.716667  | -74.950000 |
| 4138 | LLANO LARGO                        |            | 4.484889  | -74.030278 |
| 3268 | GARRAPATA                          | [29020020] | 10.321556 | -74.423972 |
| 1533 | TULIA LA                           | [26117200] | 4.385111  | -76.244528 |
| 1131 | VICHECITO                          | [21077030] | 2.501000  | -75.549583 |
| 4358 | LA ESPERANZA                       | [35127030] | 3.810000  | -72.290000 |
| 3515 | DONA MARIA                         | [29060560] | 10.384444 | -74.177944 |
| 462  | ARGENTINA LA                       | [25025290] | 8.966667  | -73.633333 |
| 2104 | LLANO LARGO                        | [35020320] | 4.482833  | -74.030278 |
| 530  | PLANES LOS                         | [23190810] | 7.812611  | -73.321444 |
| 2442 | GUAVITO                            | [21047030] | 2.116667  | -75.866667 |
| 2799 | SEIS EL                            | [25025300] | 9.683667  | -74.322278 |
| 2121 | DIAZ HACIENDA                      | [21047040] | 2.266667  | -75.750000 |
| 3054 | SALAMINA                           | [29050020] | 10.487528 | -74.790000 |
| 3149 | PAYOA 5                            | [24060080] | 7.270278  | -73.490833 |
| 3029 | SANTA ISABEL                       | [25021640] | 8.712750  | -73.702556 |
| 2720 | YUCAL EL                           | [25021650] | 9.557389  | -73.876194 |
| 2307 | CEJALITO                           | [35137010] | 3.734472  | -72.369944 |
| 3524 | INDERENA                           | [29037040] | 10.400000 | -75.066667 |
| 2440 | SAN IGNACIO                        | [46017010] | 2.112167  | -74.772111 |
| 2718 | PRIMATES                           | [13095020] | 9.530139  | -75.351361 |
| 3280 | BOQUITAS                           | [29037230] | 10.366667 | -75.016667 |
| 3276 | BOQUITAS                           | [29037330] | 10.350000 | -75.000000 |
| 3051 | AHUYAMAL                           | [29037510] | 10.466667 | -75.116667 |
| 1262 | CENTRO MED ANDES                   | [21205730] | 4.698167  | -74.036833 |
| 1658 | PUENTE QUEVEDO                     | [35027130] | 4.150000  | -74.050000 |
| 2144 | BOCATOMA 2                         | [22057100] | 3.750000  | -75.266667 |
| 1638 | ANIMAS LAS                         | [35027150] | 4.137972  | -74.173806 |
| 3988 | CLINICA SAN RAFAEL                 | [21205760] | 4.600000  | -74.083333 |
| 1637 | PRIMAVERA LA                       | [35020340] | 4.133333  | -74.050000 |
| 1755 | DESARENADOR S 2                    | [21147070] | 3.350000  | -75.116667 |
| 1830 | MONDOMO                            | [26020360] | 2.903694  | -76.546972 |
| 1757 | DESARENADOR S 1                    | [21147060] | 3.366667  | -75.100000 |
| 3583 | LA MARIA - AUT                     | [16040050] | 7.934444  | -73.211667 |
| 2905 | RINCON LOS                         | [37010080] | 7.198333  | -72.712778 |
| 3141 | PUENTE TRUTE                       | [37017020] | 7.233333  | -72.766667 |
| 886  | TAME                               | [36025010] | 6.456194  | -71.745028 |
| 2897 | MONTECITOS                         | [16050260] | 8.198333  | -73.246111 |
| 518  | POMARROSOS LOS                     | [16027010] | 7.778333  | -72.820833 |
| 3122 | IGUANA LA                          | [16027020] | 8.216667  | -72.550000 |
| 3318 | RADIOSONDA AEROPUERTO VASQUEZ COBO | [48015020] | -4.199389 | -69.943694 |
| 3342 | ESCUELA LA UNION                   | [21201200] | 4.342944  | -74.183889 |

|      |                    |            |           |            |
|------|--------------------|------------|-----------|------------|
| 2193 | PISCIS             | [21200620] | 5.079167  | -73.696861 |
| 3639 | MITU               | [42075010] | 1.260000  | -70.240000 |
| 2184 | PANONIA            | [21200160] | 5.057972  | -73.734333 |
| 1069 | PREVENTORIO INFANT | [21201310] | 4.465444  | -74.267500 |
| 272  | ISLA DEL TESORO    | [14015070] | 10.233333 | -75.750000 |
| 2329 | LAGUNITAS          | [21201190] | 5.214528  | -73.907250 |
| 2930 | LAGUNA LA          | [16050270] | 8.333333  | -73.350000 |
| 1529 | AUSTRALIA          | [21201300] | 4.394250  | -74.132000 |
| 2397 | UNION LA           | [21201320] | 4.509361  | -74.268806 |
| 1550 | POTRERO LARGO      | [21200780] | 4.929222  | -73.780472 |
| 1955 | PUENTE LUISA       | [21217140] | 4.341361  | -75.520083 |
| 362  | LOURDES            | [21201050] | 4.982889  | -73.864667 |
| 3989 | ESAP               | [21206040] | 4.646778  | -74.096361 |
| 1393 | RIOSUCIO           | [26170290] | 5.424778  | -75.730250 |
| 2408 | SENA K 30          | [21205840] | 4.595361  | -74.111833 |
| 1180 | ADPOSTAL           | [21206000] | 4.680750  | -74.123639 |
| 2001 | PORTAL EL          | [35067150] | 4.883333  | -73.366667 |
| 1422 | CARACOL EL         | [21080050] | 2.766667  | -75.600000 |
| 1421 | MICROCUEENCA 1     | [2108004]  | 2.766667  | -75.600000 |
| 1577 | PUEBLO NUEVO       | [21110130] | 2.805500  | -75.085333 |
| 2099 | SECRETO EL         | [21210080] | 4.494278  | -75.289944 |
| 1603 | MARSELLA-ITA       | [26130270] | 4.933333  | -75.750000 |
| 3709 | LIBANO EL          | [21037030] | 1.916667  | -75.800000 |
| 1766 | ROBLE EL           | [21201550] | 4.796667  | -74.226389 |
| 747  | CALDERAS           | [23085010] | 6.150000  | -75.066667 |
| 1377 | PUENTE ADRIANA     | [35077090] | 5.385000  | -73.361639 |
| 2000 | CABANA LA          | [21250030] | 4.883333  | -75.250000 |
| 2319 | BOLSA LA           | [35020330] | 4.575417  | -73.981417 |
| 3550 | BERASTEGUI         | [13077090] | 8.933333  | -75.716667 |
| 3308 | SAN CARLOS         | [13077120] | 8.800000  | -75.700000 |
| 3538 | PUENTE SAN CARLOS  | [13077140] | 8.900000  | -75.733333 |
| 460  | POLITO EL          | [13077130] | 8.966667  | -75.716667 |
| 2482 | CHORRERA LA        | [47077010] | -1.444611 | -72.789583 |
| 1633 | JUNCALITO          | [21097090] | 2.833333  | -75.316667 |
| 2213 | PENAS BLANCAS      | [21160130] | 3.651056  | -74.749722 |
| 1136 | TOTORO             | [26020130] | 2.541833  | -76.418806 |
| 2599 | RICAUARTE          | [16010100] | 8.026361  | -72.353972 |
| 1237 | PUERTO ARTURO      | [32105010] | 2.583333  | -72.783333 |
| 4064 | BAJIRA             | [11145010] | 7.383333  | -76.666667 |
| 2953 | OROCUE             | [16010090] | 7.433333  | -72.450000 |
| 4458 | EL PICUDO          | [47010220] | 0.489722  | -76.836278 |
| 578  | CAURINA            | [15065110] | 11.016667 | -72.550000 |
| 672  | LAGUNA D OXIDACION | [15065120] | 11.150000 | -72.583333 |
| 2495 | QUILLA LA          | [46077010] | -0.932778 | -71.776389 |
| 570  | LOMA LINDA         | [15067010] | 11.014139 | -72.644444 |
| 2533 | REMOLINOS D CAGUAN | [46045010] | 0.600000  | -74.416667 |
| 3476 | MONTEBELLO         | [29040020] | 10.708500 | -74.907833 |
| 2116 | BETULIA LA         | [21045010] | 2.281583  | -75.705083 |
| 587  | CRUZ LA HACIENDA   | [15065100] | 11.115861 | -72.708583 |
| 585  | REMEDIOS           | [15067110] | 11.095917 | -72.534806 |
| 3655 | LIBANO EL          | [21035040] | 1.870000  | -75.830000 |
| 666  | MIRA LA            | [15067100] | 11.116667 | -72.700000 |
| 3920 | TUNAL EL           | [26220060] | 6.583333  | -75.833333 |
| 1881 | TAQUES LOS         | [35025070] | 4.196667  | -74.190944 |
| 1919 | BETANIA            | [35020350] | 4.218889  | -74.146861 |



|      |                                  |            |           |            |
|------|----------------------------------|------------|-----------|------------|
| 567  | PISTA LA                         | [16070020] | 9.116667  | -72.866667 |
| 4102 | COBENAS                          | [52055080] | 1.200000  | -77.166667 |
| 1709 | ACUEDUCTO LA ESMERALDA           | [35030040] | 4.163639  | -73.647722 |
| 2522 | SAN JOAQUIN                      | [47030030] | 0.338111  | -76.078250 |
| 359  | SILENCIO EL                      | [23060290] | 4.973167  | -74.412056 |
| 1579 | ALTO DEL OSO                     | [21250050] | 4.850000  | -75.250000 |
| 3807 | MUCUARE                          | [32105060] | 2.866667  | -71.533333 |
| 2244 | VELODROMO 1 D MAYO               | [21205600] | 4.616667  | -74.066667 |
| 3788 | EL ENCANTO                       | [47060010] | -1.748510 | -73.205167 |
| 2051 | PUENTE CHACON - AUT              | [24017740] | 5.677889  | -73.542139 |
| 3053 | DESCANSO EL                      | [28010020] | 10.480111 | -73.237194 |
| 1758 | COOPERATIVA LA                   | [32075060] | 3.366667  | -73.700000 |
| 3770 | SAN RAFAEL                       | [47057010] | -1.688667 | -73.239750 |
| 2513 | EL REFUGIO - AMAZONAS            | [47047010] | -0.559167 | -74.386667 |
| 3772 | SAN AGUSTIN                      | [47047040] | -1.610028 | -73.485528 |
| 1689 | AMARILLO EL                      | [24017760] | 5.733333  | -73.633333 |
| 1926 | PRIMAVERA D MATIMA               | [21206180] | 4.805500  | -74.443472 |
| 895  | SANTO DOMINGO                    | [23080390] | 6.468306  | -75.163806 |
| 1717 | ESCUELA COL INGENIERIA           | [21206050] | 4.783333  | -74.050000 |
| 3800 | EL REFUGIO                       | [47040020] | -0.559167 | -74.386667 |
| 4414 | ENCANTO EL                       | [47067010] | -1.771556 | -73.197139 |
| 1629 | ALTO DEL CARNERO                 | [24017770] | 5.716667  | -73.650000 |
| 3771 | SAN AGUSTIN                      | [47040050] | -1.610694 | -73.484833 |
| 2493 | MERCEDES LAS                     | [44157010] | -0.638444 | -72.344750 |
| 2492 | PUERTO TOLOZA                    | [47047020] | -1.049500 | -74.068500 |
| 2491 | REMOLINO                         | [47040040] | -1.258944 | -73.618944 |
| 3769 | ESTRECHO-MARANDUA                | [47067020] | -2.443972 | -72.672778 |
| 2518 | CHIPAROS LOS                     | [47037030] | 0.116667  | -75.866667 |
| 2095 | LLANO LARGO                      | [35025050] | 4.482833  | -74.030278 |
| 3977 | LLANO VIEJO                      | [24017750] | 5.683333  | -73.633333 |
| 2734 | HOYO SOPLADOR                    | [17010020] | 12.481000 | -81.730444 |
| 2008 | CAMOYO EL                        | [35077050] | 4.900200  | -73.326250 |
| 2738 | AGUA DULCE                       | [17020040] | 13.343778 | -81.388111 |
| 1620 | INSTITUCION AGRICOLA SANTA SOFIA | [24015090] | 5.710667  | -73.602278 |
| 1618 | QUEBRADITAS                      | [24017780] | 5.700000  | -73.633333 |
| 1630 | TRES ESQUINAS                    | [24010690] | 5.716667  | -73.633333 |
| 3782 | TARAPACA                         | [47100010] | -2.894722 | -69.735694 |
| 287  | ARICA - R. PUTUMAYO              | [47087010] | -2.146889 | -71.752222 |
| 2691 | CHARCON                          | [25020390] | 9.397222  | -75.155806 |
| 2173 | CASAS LAS                        | [35030080] | 4.441167  | -73.936389 |
| 2520 | PUERTO OSPINA                    | [47035020] | 0.132861  | -75.851111 |
| 2707 | PARAISO EL                       | [13090060] | 9.473889  | -75.370833 |
| 4077 | SIGLO EL                         | [13070080] | 8.950000  | -75.566667 |
| 813  | CUSAGUI                          | [24035010] | 6.248111  | -72.548889 |
| 1868 | VEGAS LAS                        | [24017790] | 5.650000  | -73.466667 |
| 4124 | BICARCO                          | [47097010] | -2.466667 | -70.316667 |
| 263  | GORGONA LA PLAYA                 | [57027010] | 2.963889  | -78.174167 |
| 3761 | TARAPACA                         | [47107010] | -2.894722 | -69.735556 |
| 264  | GORGONILLA                       | [57020020] | 2.983333  | -78.183333 |
| 59   | LETICIA                          | [48017010] | -4.222528 | -69.942722 |
| 3767 | GAUDENCIO                        | [47090010] | -2.483333 | -70.300000 |
| 265  | ALTO DE LOS MICOS                | [57020010] | 3.000000  | -78.183333 |
| 266  | GORGONA BOCATOMA                 | [57027020] | 3.016667  | -78.166667 |
| 2507 | PUERTO LEGUIZAMO                 | [47047050] | -0.199722 | -74.780111 |
| 1474 | CUARTOS LOS                      | [21197210] | 4.366667  | -74.450000 |

|      |                                |           |            |
|------|--------------------------------|-----------|------------|
| 3820 | LA CHORRERA [47075010]         | -1.444611 | -72.789583 |
| 2452 | SINDAMANOY [47017580]          | 1.135222  | -77.147194 |
| 4034 | MARAVILLA LA [16055080]        | 8.407778  | -73.213611 |
| 2716 | PARAISO EL [13097020]          | 9.500000  | -75.400000 |
| 1379 | FLORES COLOMBIANAS [21206210]  | 4.736250  | -74.157333 |
| 312  | SABANETA [23065100]            | 4.901750  | -74.307389 |
| 1249 | MIRA 5 [22057030]              | 3.933333  | -75.033333 |
| 1364 | TUNDAMA [21206200]             | 4.733333  | -74.250000 |
| 442  | CERRAZON LA [12015080]         | 7.716667  | -76.616667 |
| 2623 | AGUAS MOHOSAS [13070450]       | 9.251111  | -75.491667 |
| 2234 | SEDE IDEAM KRA 10 [21201600]   | 4.607111  | -74.072889 |
| 3866 | CERRAZON LA [12017070]         | 7.720861  | -76.576361 |
| 2106 | PRIMAVERA LA [21210210]        | 4.483333  | -75.266667 |
| 2014 | LA ESMERALDA - AUT [21257090]  | 4.890778  | -74.853139 |
| 3580 | ARMERO GRANJA [21255090]       | 5.000000  | -74.899992 |
| 2172 | PUENTE LA BOLIVAR [21217280]   | 4.436550  | -75.445939 |
| 2214 | LIMON EL [22045020]            | 3.651833  | -75.584194 |
| 2143 | BRAZUELO DELICIAS [22067020]   | 3.775861  | -75.456972 |
| 2402 | TOCHE [21210180]               | 4.519500  | -75.409833 |
| 1958 | TIBACUY [21190030]             | 4.348056  | -74.454472 |
| 2384 | SANTA ANA - AUT [21145080]     | 3.589778  | -74.702944 |
| 1832 | PALERMO [21125020]             | 2.907500  | -75.443333 |
| 1796 | JAMAICA [21195090]             | 4.316667  | -74.583333 |
| 1162 | GUAYABOS LOS [22050100]        | 4.656556  | -75.096944 |
| 1078 | SAN JUAN DE CHINA [21240030]   | 4.542444  | -75.075389 |
| 1944 | PALOGRADE HACIENDA [21210170]  | 4.331889  | -75.401333 |
| 1178 | UNIV PEDAGOGICA [21206190]     | 4.666667  | -74.066667 |
| 2031 | PARAGUAY HACIENDA [21120010]   | 2.977750  | -75.485389 |
| 2082 | TRES ESQUINAS [21147080]       | 3.405694  | -74.817028 |
| 3982 | HAMACA LA [22047020]           | 3.750000  | -75.583333 |
| 1513 | RESACA LA [21210190]           | 4.274500  | -75.148417 |
| 1448 | CORAZON EL [22075040]          | 4.116667  | -75.116667 |
| 3978 | SANTO DOMINGO [21145060]       | 3.230722  | -74.943444 |
| 2323 | SAN ISIDRO [21140040]          | 4.583333  | -74.633333 |
| 2317 | ALVARADO [21240080]            | 4.567889  | -74.951306 |
| 1247 | PENAS BLANCAS [21195110]       | 3.964722  | -74.443750 |
| 2101 | CAMPOHERMOSO [35085050]        | 5.034500  | -73.103667 |
| 2304 | GUAINI [22060110]              | 3.717722  | -75.423556 |
| 1874 | VALLE DE SAN JUAN [21185080]   | 4.216458  | -75.104611 |
| 2411 | LUMBI [21257110]               | 5.125694  | -74.904917 |
| 1956 | CUCUANA HACIENDA [21215130]    | 4.341389  | -75.518583 |
| 143  | TOBIA - AUT [23067060]         | 5.125306  | -74.447056 |
| 1226 | PUENTE NEGRO - AUT [21257120]  | 4.940194  | -75.089806 |
| 1065 | RELATOR [22015020]             | 3.529139  | -75.631417 |
| 372  | BELLEZA LA [21230120]          | 4.985389  | -74.581111 |
| 2016 | BOQUERON [21250170]            | 4.903889  | -75.252778 |
| 1953 | BUENOS AIRES [21210200]        | 4.335139  | -75.073444 |
| 1677 | RIOCLARO [22020060]            | 3.053333  | -75.641917 |
| 2065 | ROSALES FINCA LOS [22015010]   | 3.217167  | -75.783417 |
| 1400 | POTOSI HACIENDA [21105040]     | 2.696806  | -75.298889 |
| 1887 | JULIA LA [21135050]            | 3.098778  | -75.530028 |
| 3963 | GARCIA HACIENDA [21255150]     | 4.855417  | -74.891556 |
| 1212 | SANTA BARBARA FINCA [21100070] | 2.561722  | -75.235139 |
| 2089 | MIRADOR FINCA EL [22010090]    | 3.416667  | -75.683333 |
| 1669 | JUNTAS TOPON [21127050]        | 3.016667  | -75.400000 |

|      |                                     |            |           |            |
|------|-------------------------------------|------------|-----------|------------|
| 2812 | MONTERREY FORESTAL                  | [25025020] | 9.731667  | -74.838056 |
| 3015 | VILLA MARLENE                       | [28010070] | 10.185500 | -73.467111 |
| 2048 | BOCATOMA                            | [24017820] | 5.680000  | -73.485000 |
| 2678 | NUEVA ANTIOQUIA                     | [12020040] | 8.050000  | -76.550000 |
| 1844 | SUTAMARCHAN                         | [24017830] | 5.618389  | -73.612861 |
| 3766 | PUERTO NARINO                       | [48017020] | -3.782389 | -70.364306 |
| 1153 | VUELTA LARGA                        | [35125020] | 3.866667  | -72.200000 |
| 816  | CANAL DE FUGA                       | [23087480] | 6.233333  | -74.883333 |
| 2994 | VALERA LA                           | [16035050] | 8.366667  | -72.583333 |
| 2152 | PST DE MONTA                        | [21165010] | 3.787611  | -74.917028 |
| 2810 | REPRESA EL CALLAO                   | [25027310] | 9.683333  | -74.900000 |
| 3965 | CUEVA LA HACIENDA                   | [24010730] | 5.633333  | -73.366667 |
| 3386 | AGUAS CLARAS                        | [23217040] | 8.266667  | -73.600000 |
| 3403 | YEGUERITA                           | [23217050] | 8.300000  | -73.583333 |
| 4289 | VARAS LAS                           | [25020420] | 8.390000  | -74.560000 |
| 3610 | LLANO VERDE                         | [52070030] | 1.739722  | -77.527778 |
| 3829 | ALBANIA                             |            | 5.301109  | -74.914581 |
| 986  | CLARO DE LUNA                       | [23070010] | 5.861417  | -74.762028 |
| 654  | BOMBA SUR                           | [25028440] | 9.233333  | -74.733333 |
| 3796 | CUCUNUBA1                           |            | 5.250000  | -73.770000 |
| 2109 | SUESCA                              | [21201620] | 5.109583  | -73.796972 |
| 3825 | RADIO FARO                          | [23085020] | 6.383333  | -75.150000 |
| 1281 | UBATE GRANJA                        | [24011090] | 5.327333  | -73.791444 |
| 1626 | TABIO GRANJA                        | [21201630] | 4.933056  | -74.065611 |
| 1186 | VILLAPINZON GRANJA                  | [21201640] | 5.263750  | -73.590861 |
| 3940 | CAMP EL PORVENIR                    | [53070040] | 2.766667  | -77.066667 |
| 1794 | SAN ISIDRO                          | [21201610] | 4.850289  | -73.890722 |
| 2313 | BOLSA LA                            | [35025060] | 4.575417  | -73.981417 |
| 877  | CANAFISANTO                         | [26215020] | 6.416667  | -75.816667 |
| 2620 | LIBRA ARriba                        | [25020400] | 9.320556  | -75.303611 |
| 2584 | MARIRRIO                            | [11140010] | 8.000000  | -76.950000 |
| 2879 | PRADERA                             | [23197280] | 8.116667  | -73.583333 |
| 502  | POZO HONDO                          | [15067130] | 10.998556 | -72.819556 |
| 3725 | SINDAGUA                            | [52055090] | 1.107583  | -77.389361 |
| 594  | ALTO DE MIRA                        | [15015110] | 11.091500 | -73.932389 |
| 642  | VENECIA                             | [13070430] | 9.195278  | -75.541111 |
| 2239 | CENTRO GAVIOTAS                     | [21206240] | 4.600000  | -74.066667 |
| 574  | GUACAMAYO                           | [15060090] | 11.063389 | -72.776694 |
| 1167 | VEGAS LAS HACIENDA                  | [21206230] | 4.661667  | -74.151419 |
| 660  | GLORIA LA                           | [15060180] | 11.138028 | -72.711500 |
| 370  | COLEGIO AGROPECUARIO PAILITAS - AUT | [25025330] | 8.954222  | -73.630083 |
| 2730 | GUAIRA LA HACIENDA                  | [28045040] | 9.616667  | -73.800000 |
| 3043 | CANALETE                            | [12047010] | 8.786972  | -76.236417 |
| 1135 | VEINTE DE JULIO                     | [53070080] | 2.530667  | -76.986500 |
| 595  | ROCHE                               | [15060200] | 11.075056 | -72.647333 |
| 1307 | HONDURAS                            | [53070060] | 2.639611  | -77.154944 |
| 1413 | GALLERA LA                          | [53070090] | 2.745111  | -76.905278 |
| 1408 | PORVENIR EL                         | [53075010] | 2.716667  | -77.166667 |
| 1311 | SAN JUAN DE MICAY                   | [53070070] | 2.650000  | -77.283333 |
| 2858 | SAN JOSE                            | [29030140] | 10.439444 | -75.108333 |
| 1323 | TRAMPA SEDIMENTOS                   | [21087090] | 2.666667  | -75.566667 |
| 3759 | NAZARETH                            | [48017030] | -4.120194 | -70.036083 |
| 2185 | CHILAGUA FINCA                      | [23060260] | 5.064639  | -74.382028 |
| 644  | LORICA                              | [13077170] | 9.226672  | -75.815008 |
| 651  | JUNIN                               | [13087010] | 9.233333  | -76.033333 |

|      |                                |           |            |
|------|--------------------------------|-----------|------------|
| 2631 | SOLEDAD [13077190]             | 9.350000  | -75.866667 |
| 3558 | CERETE [13077150]              | 8.885083  | -75.797417 |
| 2630 | SICARA [13077180]              | 9.350000  | -75.950000 |
| 638  | VENECIA [13077160]             | 9.183333  | -75.516667 |
| 2714 | MULAS [25027350]               | 9.466667  | -75.150000 |
| 2017 | PUENTE CARRETERA [35227090]    | 4.904583  | -71.436139 |
| 1216 | SAN JOSE GUAVIARE [32107030]   | 2.573444  | -72.637917 |
| 579  | CHANCLETA LA [15067140]        | 11.033333 | -72.633333 |
| 2526 | MUELLE EL [47017010]           | 0.473639  | -76.481250 |
| 3168 | BALSA LA [11135020]            | 7.516667  | -77.200000 |
| 1447 | ESTRELLA LA [21250100]         | 4.761833  | -74.898694 |
| 3638 | MILAN [44037010]               | 1.289250  | -75.508333 |
| 825  | CRAVO NORTE [36027050]         | 6.295639  | -70.194333 |
| 1395 | SAN JOSE [35077100]            | 5.428639  | -73.528278 |
| 1934 | CORITO [21206250]              | 4.800000  | -74.366667 |
| 648  | ESMERALDA LA [13077210]        | 9.200000  | -75.566667 |
| 565  | BAJO GRANDE [13077220]         | 9.150000  | -75.516667 |
| 3908 | TAJO SUR [15065140]            | 11.076889 | -72.675000 |
| 3603 | BOCATOMA CENTENARIO [52047030] | 1.201389  | -77.247778 |
| 3477 | PORVENIR EL [14010090]         | 10.710222 | -75.162278 |
| 2632 | VILLA MARCELA [13070440]       | 9.352222  | -75.718889 |
| 3732 | PROVIDENCIA [5204704]          | 1.431944  | -77.300556 |
| 2111 | SANTA ROSITA [21201650]        | 5.115917  | -73.757389 |
| 123  | ESPERANZA LA [23017040]        | 5.206167  | -74.913722 |
| 3925 | PUENTE CARRETERA [32077020]    | 3.483333  | -73.733333 |
| 2091 | PUENTE CARRETERA [32077030]    | 3.416667  | -73.783333 |
| 2090 | PUENTE CARRETERA [32077010]    | 3.416667  | -73.783333 |
| 854  | ALEJANDRIA [23085030]          | 6.376250  | -75.143389 |
| 2380 | PUENTE CARRETERA [32077050]    | 3.433333  | -73.783333 |
| 2381 | PUENTE CARRETERA [32077040]    | 3.450000  | -73.750000 |
| 3506 | LA GLORIA [23217060]           | 8.613833  | -73.801639 |
| 311  | SANTA TERESA [23065060]        | 4.842167  | -74.461694 |
| 1768 | C.UNIV.AGROP-UDCA [21206260]   | 4.798639  | -74.049722 |
| 1534 | ITA VALSALICE - AUT [21195120] | 4.395778  | -74.396139 |
| 2268 | PALESTINA [26155160]           | 5.016667  | -75.516667 |
| 354  | MARTOTA [35075050]             | 4.950000  | -73.433333 |
| 571  | ABAJO BOCATOMA [15067160]      | 11.033056 | -72.708722 |
| 2563 | PARAGUACHON [15087080]         | 11.360139 | -72.132444 |
| 2288 | LEJANIAS [32065010]            | 3.533333  | -74.016667 |
| 2347 | CATARATAS [23017070]           | 5.250000  | -74.900000 |
| 3764 | BOCAS DEL ATACUARI [48017040]  | -3.835194 | -70.625611 |
| 1396 | TUNIA [26025100]               | 2.674472  | -76.526333 |
| 2330 | PUENTE CARRETERA [23017060]    | 5.219019  | -74.894861 |
| 1900 | POTRERITO [21120040]           | 3.141083  | -75.379472 |
| 4452 | CUEMANI [44147020]             | 0.620000  | -72.380000 |
| 1604 | JARDIN BOTANICO [26135090]     | 4.933333  | -75.733333 |
| 2943 | TAMA PARQUE NAL [16015090]     | 7.424444  | -72.442111 |
| 1057 | AGUAS CLARAS [32070110]        | 3.472028  | -73.857833 |
| 584  | TAJO SUR [15060210]            | 11.076889 | -72.675000 |
| 1741 | SAN FRANCISCO [21125040]       | 3.083333  | -75.433333 |
| 3711 | SANTA ISABEL [47010230]        | 0.990167  | -77.157361 |
| 195  | SAN PEDRO - AUT [25017020]     | 7.853889  | -75.709722 |
| 4376 | CUEMANI [44140020]             | -0.520000 | -73.040000 |
| 615  | PUERTO LIBERTADOR [25010010]   | 7.890278  | -75.680000 |
| 271  | ISLA DEL ROSARIO [14019020]    | 10.195417 | -75.747306 |

|      |                     |            |           |            |
|------|---------------------|------------|-----------|------------|
| 1190 | GUARACAS            | [26147080] | 5.278778  | -75.827861 |
| 1787 | AQUITANIA           | [35097220] | 5.516667  | -72.883333 |
| 3971 | ITUC                | [21195130] | 4.333333  | -74.383333 |
| 2942 | OROCUE TAMA         | [16017070] | 7.424083  | -72.442194 |
| 3423 | MAJAGUAL            | [25027500] | 8.542694  | -74.627333 |
| 3404 | NUBES LAS           | [13047020] | 8.316667  | -76.100000 |
| 3389 | RUSIA               | [13047010] | 8.283333  | -76.266667 |
| 3366 | MAGARA              | [23190210] | 7.593333  | -73.681389 |
| 452  | OREJERO             | [25027520] | 8.982222  | -74.713889 |
| 650  | CRUZ CHIQUITA       | [13077270] | 9.216667  | -75.500000 |
| 2701 | CARACOL             | [13097030] | 9.400000  | -75.400000 |
| 566  | CUESANTA ABAJO      | [13077260] | 9.150000  | -75.516667 |
| 649  | MARIA LA            | [13077250] | 9.200000  | -75.450000 |
| 2613 | PASTORA LA          | [13097050] | 9.266667  | -75.483333 |
| 2612 | CERRO BOMBA         | [13097040] | 9.266667  | -75.500000 |
| 4012 | COCORILLA           | [13077240] | 9.300000  | -75.783333 |
| 40   | BOCATOMA YAGUARCACA | [48017050] | -4.190472 | -69.950278 |
| 2628 | NUEVE LOS           | [25027650] | 9.316667  | -75.383333 |
| 411  | PLAYA LA            | [29060330] | 10.761972 | -74.120472 |
| 3434 | MIRASOL             | [25021660] | 8.600833  | -75.257222 |
| 2250 | ACAPULCO            | [21206280] | 4.653833  | -74.333056 |
| 2729 | DIVISA LA           | [25027660] | 9.600000  | -75.200000 |
| 2820 | PELONA LA           | [13097070] | 9.750000  | -75.583333 |
| 3730 | BELEN DE ANDAQUIES  | [44040020] | 1.419528  | -75.870722 |
| 1406 | HIDROBETANIA        | [21095020] | 2.713444  | -75.424917 |
| 1407 | HIDROBETANIA        | [21105060] | 2.713444  | -75.424917 |
| 4026 | NUMEROS LOS         | [13097060] | 9.633333  | -75.216667 |
| 4122 | VILLA ROSA          | [5205510]  | 1.030500  | -77.638278 |
| 1593 | COPA LA             | [24037020] | 5.579194  | -73.208778 |
| 1392 | TEATINOS            | [35070310] | 5.422822  | -73.375778 |
| 3609 | ROSARIO EL          | [5201003]0 | 1.739444  | -77.337500 |
| 2644 | SENA                | [15065150] | 11.550000 | -72.900000 |
| 4411 | WILQUIPAMBA         | [52045070] | 1.199998  | -77.190000 |
| 3456 | LUZ MARY            | [29065090] | 10.600000 | -74.200000 |
| 3376 | PUERTO MANGO        | [13027020] | 7.616667  | -76.300000 |
| 3902 | SAN CONALITO        | [13017040] | 7.683333  | -76.116667 |
| 3905 | ESMERALDA LA        | [13027010] | 7.750000  | -76.250000 |
| 607  | CANAFINA            | [13027030] | 7.850000  | -76.316667 |
| 3438 | EL MONTON           | [13077300] | 8.868333  | -75.835556 |
| 432  | SAIZA               | [13020040] | 7.700000  | -76.483333 |
| 429  | MOLINILLO           | [13010010] | 7.683333  | -76.050000 |
| 2679 | PASACABALLOS        | [13047050] | 8.050000  | -76.200000 |
| 2393 | GRANJA EXP HOESCHST | [26075100] | 3.633333  | -76.433333 |
| 1651 | JARDIN EL           | [26195030] | 5.587722  | -75.800556 |
| 2896 | TIERRALTA           | [13047030] | 8.187056  | -76.064611 |
| 185  | CARRIZOLA - AUT     | [13037040] | 8.160833  | -76.095556 |
| 2123 | SALINAS             | [5201015]  | 2.292750  | -76.588972 |
| 671  | MINGUEO             | [1503703]  | 11.212222 | -73.403333 |
| 444  | FLECHA LA           | [13010040] | 7.633333  | -75.966667 |
| 1600 | JARDIN EL           | [26165030] | 5.583333  | -75.833333 |
| 2873 | TORO EL             | [13047040] | 8.113483  | -76.127936 |
| 2221 | VILLA LUZ ALBA      | [53110130] | 3.690083  | -76.592500 |
| 2226 | VILLA LUZ ALBA      | [26080380] | 3.700000  | -76.583333 |
| 1191 | TAIJARA ALEJANDRIA  | [26140080] | 5.280806  | -75.825833 |
| 623  | DESPENSA LA         | [13025030] | 7.883333  | -76.300000 |

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| 227  | NUEVA COLOMBIA                           | [13057010] | 8.499444  | -75.978611 |
| 859  | HONDA LA                                 | [11075010] | 6.356389  | -76.158056 |
| 3590 | INSTITUCION AGRICOLA CONVENCION          | [16055090] | 8.470556  | -73.343889 |
| 3784 | BAJIRA                                   | [11147020] | 7.368444  | -76.727278 |
| 2935 | VILLARTEAGA                              | [12017100] | 7.413222  | -76.599611 |
| 843  | ALDEA LA                                 | [26205080] | 6.341056  | -75.700944 |
| 3368 | MANZANARES                               | [16010110] | 7.612778  | -72.590833 |
| 1678 | PORE                                     | [35230020] | 5.726139  | -71.992889 |
| 3174 | PEZVAL                                   | [13040030] | 8.262222  | -76.169167 |
| 1559 | FLECHA LA                                | [26170350] | 5.466667  | -75.616667 |
| 1465 | PUERTO LLERAS                            | [32075080] | 3.267694  | -73.373194 |
| 2576 | AEROPUERTO ALM. PADILLA                  | [15065160] | 11.529611 | -72.917667 |
| 76   | LA MORA - AUT                            | [21167080] | 3.725194  | -74.826444 |
| 820  | ASTILLEROS                               | [27011110] | 6.257306  | -75.675861 |
| 838  | IGUANA LA                                | [27011120] | 6.316278  | -75.657528 |
| 302  | TERPEYA COLOMBIA                         | [21085040] | 2.662806  | -75.665556 |
| 2767 | FORTUNA LA                               | [37047030] | 6.916667  | -71.916667 |
| 2609 | PASTORA LA                               | [13090230] | 9.293333  | -75.491944 |
| 2375 | POTRERO CEBAS                            | [24011110] | 5.833333  | -73.550000 |
| 949  | PUENTE CARRETERA                         | [24027090] | 6.616667  | -73.066667 |
| 2206 | SALADITO                                 | [5201011]  | 2.334583  | -76.620111 |
| 881  | LLANOS DE SAN JUAN                       | [26230180] | 6.427000  | -75.717750 |
| 3316 | GARZONES LOS                             | [13077280] | 8.826639  | -75.841972 |
| 2353 | BOCATOMA ARRIBA                          | [24017900] | 5.835222  | -73.547667 |
| 3217 | BETANCI                                  | [13067080] | 8.504028  | -75.963694 |
| 992  | VEGAS LAS                                | [24037100] | 5.862778  | -73.075778 |
| 889  | LLANOS DE SAN JUAN                       | [26237130] | 6.433333  | -75.716667 |
| 1479 | PETRIBA                                  | [35105040] | 4.383333  | -72.900000 |
| 171  | SAN ANTONIO SANTANDER                    | [23195190] | 7.099528  | -73.066194 |
| 1855 | CHORRERA LA                              | [24037590] | 5.623028  | -73.166389 |
| 3294 | PALMERA LA                               | [12015090] | 7.538333  | -76.605556 |
| 1594 | SAN FRANCISCO                            | [24037580] | 5.579639  | -73.213222 |
| 3413 | PRIMAVERA                                | [11147030] | 7.350000  | -76.633333 |
| 2947 | NUEVO ORIENTE                            | [12010170] | 7.460333  | -76.689556 |
| 582  | ESPINAL EL                               | [15065170] | 11.066667 | -72.733333 |
| 333  | AEROPUERTO FURATENA - AUT                | [23125140] | 5.520833  | -74.182417 |
| 745  | MEDIOS LOS                               | [23080910] | 6.133333  | -75.083333 |
| 3819 | LA BOCA                                  | [21115120] | 3.183333  | -75.266667 |
| 2334 | CATARATAS 2                              | [23017080] | 5.235286  | -74.886750 |
| 2100 | CUMARIBO                                 | [33055010] | 4.494722  | -69.803333 |
| 231  | ESCUELA NAVAL CIOH - AUT                 | [14019030] | 10.390564 | -75.533831 |
| 893  | GUICAN                                   | [24035070] | 6.463472  | -72.409194 |
| 73   | HACIENDA EL RUBY - AUT                   | [21167090] | 4.011056  | -74.719028 |
| 33   | TALAGA TOEZ - AUT                        | [21057100] | 2.705556  | -76.022194 |
| 3620 | CCCP DL PACIFICO                         | [51035020] | 1.819167  | -78.730000 |
| 3653 | MAGDALENA LA                             | [21017060] | 1.905000  | -76.401111 |
| 2550 | TERMOGUAJIRA - AUT                       | [15035020] | 11.252500 | -73.411389 |
| 2731 | SAN ANDRES                               | [17017020] | 12.527250 | -81.726222 |
| 1701 | CABUYAL                                  | [26065040] | 3.320222  | -76.346611 |
| 342  | TUCURA                                   | [13015020] | 7.966667  | -76.250000 |
| 4185 | UNIVERSIDAD FRANCISCO DE PAULA SANTANDER | [1605...   | 8.237778  | -73.322222 |
| 4403 | PUERTO ANGOSTURAS - AUT                  | [32067030] | 3.790000  | -73.920000 |
| 3821 | LA COPA                                  | [24035040] | 5.579194  | -73.208778 |
| 2372 | CHITICUY                                 | [24037270] | 5.845444  | -73.013611 |
| 2758 | ABERTURA LA                              | [26230240] | 6.900194  | -75.704833 |

|      |   |            |           |            |
|------|---|------------|-----------|------------|
| 783  | RIOTEX                                    | [23087670] | 6.181250  | -75.366389 |
| 1156 | PUENTE LA FERIA - AUT                     | [23087660] | 6.172667  | -75.337861 |
| 1979 | COL DPTAL AGROP                           | [24030500] | 5.558833  | -73.281667 |
| 1984 | BRASILIA FINCA                            | [24011130] | 5.550000  | -73.733333 |
| 1983 | PARAISO EL                                | [24011140] | 5.550000  | -73.800000 |
| 369  | TERMOZIPIA                                | [21206450] | 4.983333  | -73.933333 |
| 799  | POPO EL                                   | [23080930] | 6.200000  | -74.983333 |
| 2484 | VILLARREAL                                | [44197020] | -1.309528 | -69.619250 |
| 4309 | SANTUARIO                                 | [23080920] | 6.130000  | -75.270000 |
| 746  | CASAMIA                                   | [23087300] | 6.142194  | -75.376556 |
| 1663 | ENCANTO EL                                | [24030450] | 5.606333  | -73.323361 |
| 2386 | BARBASCAL                                 | [35015050] | 3.630778  | -73.349278 |
| 1788 | PILA LA FINCA                             | [24030420] | 5.518917  | -73.310722 |
| 1971 | JASSA LA                                  | [24011120] | 5.533333  | -73.483333 |
| 3326 | ALTAMIRA                                  | [23177060] | 7.083333  | -73.950000 |
| 1250 | USOSALDANA                                | [21135060] | 3.933333  | -75.016667 |
| 865  | PRESA SAN LORENZO                         | [23080940] | 6.384583  | -74.996778 |
| 2569 | CHINGOLITA LA                             | [15087090] | 11.298056 | -72.191389 |
| 313  | PUENTE SOGAMOSO - AUT                     | [24067020] | 7.244167  | -73.787500 |
| 2925 | SOGAMOSO RIO ANTES                        | [24057100] | 7.216667  | -73.900000 |
| 3755 | GUACHICONO                                | [52027010] | 2.046389  | -77.003056 |
| 875  | VIENTO EL                                 | [23080950] | 6.400000  | -75.100000 |
| 4083 | LLANITO EL ARRIBA                         | [24057080] | 7.166667  | -73.883333 |
| 4453 | GRANJA EXPERIMENTAL UNIVERSIDAD DE NARIÑO | [520...    | 1.910000  | -77.190000 |
| 2902 | LLANITO EL                                | [24057090] | 7.183333  | -73.850000 |
| 1127 | CARPINTERIAS HACIENDA                     | [26035070] | 2.466667  | -76.933333 |
| 2293 | MESA LA                                   | [52010160] | 2.261639  | -77.119556 |
| 970  | BODEGA LA                                 | [23100050] | 6.715833  | -74.410000 |
| 1649 | PIJAITO - AUT                             | [22077050] | 4.150389  | -75.306000 |
| 4154 | ASTILLEROS - AUT                          | [16027280] | 8.105278  | -72.581389 |
| 737  | TESORITO FINCA - AUT                      | [26155170] | 5.032222  | -75.438333 |
| 3885 | AYACUCHO - AUT                            | [23147040] | 6.855806  | -73.769333 |
| 2934 | PROVINCIA                                 | [23190320] | 7.402500  | -73.435000 |
| 4141 | LA CAMPINA - AUT                          | [21209200] | 4.304889  | -74.793778 |
| 3760 | PARQUE AMACAYACU                          | [48015030] | -3.819139 | -70.260889 |
| 350  | INSP FLUVIAL CAUCA                        | [25028040] | 7.983333  | -75.200000 |
| 3765 | PARQUE AMACAYACU                          | [48017070] | -3.818722 | -70.260667 |
| 3360 | DARIEN EL                                 | [23197670] | 7.566667  | -73.400000 |
| 3219 | NOBLEZA LA                                | [23207050] | 8.517500  | -73.883611 |
| 497  | PINTADA LA                                | [14010100] | 10.955111 | -74.995000 |
| 2903 | COLOMBIA                                  | [23197680] | 7.183333  | -73.100000 |
| 1464 | LA URIBE LA                               | [32020020] | 3.243222  | -74.353722 |
| 1521 | BUENAVISTA                                | [35030090] | 4.274778  | -73.617833 |
| 1861 | PAUNA                                     | [23125090] | 5.649472  | -73.981028 |
| 1660 | AMARGAL                                   | [56010020] | 5.597181  | -77.496700 |
| 3849 | MATANZAS                                  | [26235030] | 7.035833  | -75.665944 |
| 1008 | PAZ DE ARIPORO                            | [36017010] | 5.906556  | -71.902389 |
| 2103 | CRYOGAS EL RUBI                           | [21201910] | 4.466667  | -73.283333 |
| 2180 | ALTO SAN MIGUEL                           | [21201920] | 4.449667  | -74.299722 |
| 1582 | CAMPESTRES                                | [26137170] | 4.850000  | -75.683333 |
| 1370 | DON ANTONIO                               | [35090110] | 4.747778  | -72.997222 |
| 1549 | BONANZA LA HACIENDA - AUT                 | [21197080] | 4.400028  | -74.363583 |
| 1581 | HATO ALTO                                 | [21206490] | 4.835083  | -74.139917 |
| 1650 | ALCALDIA                                  | [35030100] | 4.150000  | -73.633333 |
| 3869 | FRESERA LA                                | [23087830] | 6.199722  | -75.334083 |

|      |                            |            |           |            |
|------|----------------------------|------------|-----------|------------|
| 1939 | MANI                       | [35197180] | 4.817000  | -72.291389 |
| 2107 | GUAICARAMO - AUT           | [35105050] | 4.468667  | -72.953583 |
| 1356 | PEZ FRESCO                 | [26130560] | 4.732722  | -75.575556 |
| 1361 | BUENOS AIRES               | [26137200] | 4.733333  | -75.583333 |
| 1052 | MESA DE FERNANDEZ          | [32070120] | 3.456556  | -74.029944 |
| 1362 | BRISAS LAS HACIENDA        | [26130550] | 4.733333  | -75.516667 |
| 1445 | PLAYA RICA                 | [26130540] | 4.756722  | -75.597194 |
| 1348 | PASTORA LA                 | [26137210] | 4.716667  | -75.516667 |
| 1446 | PLAYA RICA                 | [26137180] | 4.756806  | -75.597417 |
| 1360 | BUENOS AIRES               | [26137190] | 4.733333  | -75.583333 |
| 1798 | BUENAVISTA                 | [23125100] | 5.514917  | -73.943111 |
| 513  | LA ESPERANZA - AUT         | [21097120] | 2.728417  | -75.396389 |
| 4105 | GUACHARO EL                | [21037080] | 1.633333  | -76.100000 |
| 2291 | TREBOL EL                  | [21057110] | 2.250028  | -76.128500 |
| 104  | EL RETEN - AUT             | [26137220] | 4.728194  | -75.603444 |
| 1439 | TERMO OCOA                 | [35035080] | 4.100000  | -73.700000 |
| 1157 | YAGUARITO                  | [35010150] | 3.883333  | -73.340000 |
| 2443 | ALTO MAZAMORRAS            | [21010090] | 2.133333  | -76.416667 |
| 1314 | RIO CHIQUITO               | [21057130] | 2.665722  | -75.775667 |
| 812  | VALLE ALTO - AUT           | [26180250] | 5.350000  | -75.317778 |
| 1414 | YERBABUENA                 | [21087100] | 2.768528  | -75.626917 |
| 1592 | PELADA LA                  | [26185010] | 5.578750  | -75.344778 |
| 1814 | PAVAS LAS                  | [26180240] | 5.522194  | -75.392889 |
| 1970 | ALBANIA                    | [26187180] | 5.533333  | -75.333333 |
| 1599 | LA HERENCIA                | [26187170] | 5.575750  | -75.340694 |
| 4468 | ESTRELLAS LAS              | [52010190] | 2.170000  | -76.610000 |
| 2441 | PUENTE FIERRO - GUACHICONO | [52027030] | 2.156500  | -76.899000 |
| 3704 | GUACHICONO                 | [52020190] | 2.030000  | -76.673417 |
| 2290 | PAISPAMBA                  | [52015010] | 2.249722  | -76.611944 |
| 3693 | PLAYA LA                   | [52027020] | 1.967000  | -77.008861 |
| 3690 | QUEBRADILLAS               | [52020180] | 1.950972  | -76.732917 |
| 1769 | PUENTE HOLGUIN             | [35067050] | 4.799056  | -73.629222 |
| 2075 | HIMAT R 4                  | [24035090] | 5.783333  | -73.050000 |
| 3790 | SANTA LUCIA                | [47100020] | -2.864806 | -69.831694 |
| 3762 | SANTA LUCIA                | [47107030] | -2.864806 | -69.831694 |
| 2251 | HUERTA LA GRANDE           | [35095110] | 4.655083  | -72.917333 |
| 4483 | PUENTE CARRETERA           | [52017110] | 2.328361  | -76.848222 |
| 4489 | PUENTE CARRETERA           | [52017100] | 2.356333  | -76.848639 |
| 1451 | COL ABRAHAM LINCOL         | [21206500] | 4.756639  | -74.061583 |
| 2167 | INTERLAKEN                 | [21210240] | 4.421028  | -75.220556 |
| 3305 | H.J.C GRANJA               | [16025080] | 7.550000  | -72.766667 |
| 2201 | HOYO EL                    | [52017120] | 2.208611  | -77.008889 |
| 3729 | PATIA                      | [52010180] | 2.068639  | -77.052861 |
| 3694 | PUENTE CARRETERA           | [52017080] | 1.972222  | -77.210000 |
| 4004 | PARQUE CAPARU              | [43017010] | -1.083333 | -69.500000 |
| 3698 | LOMA ALTA                  | [52017060] | 1.962639  | -77.199000 |
| 2202 | BOCATOMA SAJANDI           | [52017070] | 2.216667  | -77.057500 |
| 3455 | PATIVILCA                  | [29065100] | 10.583333 | -74.216667 |
| 2205 | PUENTE COLGANTE TIMBIO     | [52017130] | 2.218056  | -77.004444 |
| 1467 | JAMUNDI                    | [26055140] | 3.274444  | -76.541667 |
| 1873 | SERVITA                    | [35030290] | 4.188806  | -73.693111 |
| 3801 | LA GLORIA                  | [23215060] | 8.615278  | -73.800556 |
| 3512 | GLORIA LA                  | [23210020] | 8.630556  | -73.804167 |
| 2537 | SANTA ROSA POTOSI          | [52050190] | 0.816250  | -77.568528 |
| 1744 | ALTO DEL TIGRE             | [35035090] | 4.284861  | -73.748333 |



|      |                                       |           |            |
|------|---------------------------------------|-----------|------------|
| 2601 | PICA PICA - AUT [25017030]            | 8.030000  | -75.680000 |
| 3838 | CAPURGANA - AUT [11159010]            | 8.620000  | -77.330000 |
| 1343 | PUENTE TOTUMO - AUT [24037490]        | 6.437972  | -72.638306 |
| 999  | PAZ DE ARIPORO [36015010]             | 5.878528  | -71.887194 |
| 3918 | PLAYA LA [24037280]                   | 6.383333  | -72.716667 |
| 2044 | PUENTE NONATO [35237010]              | 5.667417  | -72.087889 |
| 1774 | CHAPARRERA LA [35210050]              | 5.491889  | -72.229361 |
| 1679 | PUENTE CARRETERA [35237020]           | 5.728972  | -72.001222 |
| 1014 | SANTA RITA [36010030]                 | 5.934250  | -71.833917 |
| 1664 | DESECHO EL HACIENDA [35210060]        | 5.609111  | -72.067806 |
| 1012 | PUENTE CARRETERA [36017030]           | 5.921028  | -71.900333 |
| 1859 | BANCO EL [35230040]                   | 5.634389  | -72.002639 |
| 1004 | AGUADA LA [36010020]                  | 5.900003  | -72.004167 |
| 1388 | MOLINOS D CASANARE [35210040]         | 5.413250  | -72.298306 |
| 2371 | PUENTE CARRETERA [36017020]           | 5.843444  | -71.917972 |
| 2436 | ALTAMIRA EL GRIFO [21025030]          | 2.079167  | -75.736222 |
| 2160 | CASD [21206510]                       | 4.600000  | -74.083333 |
| 2176 | GUAYABAL [21217290]                   | 4.433333  | -75.300000 |
| 3806 | MORALES [23207020]                    | 8.283333  | -73.866667 |
| 1803 | PLANTA ELECTRICA [26137230]           | 4.858861  | -75.609972 |
| 3116 | TRIGUEROS HACIENDA [24065030]         | 7.076667  | -73.358056 |
| 1166 | ESPERANZA FINCA [21167100]            | 3.893667  | -74.764944 |
| 1763 | PUERTO LLERAS TOLIMA - AUT [21160260] | 3.839778  | -74.688306 |
| 1606 | MARTOTA [35070320]                    | 4.936472  | -73.436083 |
| 2208 | LAGUNA DEL OTUN [26137240]            | 4.776667  | -75.412222 |
| 1007 | ANDALUCIA [24035350]                  | 5.901139  | -73.058333 |
| 3333 | BUCARAMANGA IDEAM [23190830]          | 7.128333  | -73.118333 |
| 1060 | CALI SEDE IDEAM [26080310]            | 3.475972  | -76.523028 |
| 349  | CAMPO BELLO [13015030]                | 7.983333  | -76.233333 |
| 215  | SAN ANDRES - AUT [17019010]           | 12.556111 | -81.703389 |
| 1183 | EDIFICIO PREMIUM [21206540]           | 4.686944  | -74.054222 |
| 2171 | CRUZ ROJA [21210230]                  | 4.429722  | -75.207750 |
| 3628 | PIEDRA LISA II - AUT [44017120]       | 1.213611  | -76.661028 |
| 1959 | BATAN [21190460]                      | 4.350000  | -74.400000 |
| 3731 | VILLALOBOS [44010130]                 | 1.428333  | -76.478861 |
| 3740 | CASCABEL [44017150]                   | 1.451389  | -76.645000 |
| 3733 | BETANIA-VILLALOBOS [44017140]         | 1.432750  | -76.478861 |
| 3629 | PAToyACO [44010120]                   | 1.217556  | -76.802167 |
| 4116 | DIVISO EL [44017080]                  | 1.283333  | -76.550000 |
| 2481 | CRISTALINA LA [44010140]              | 1.576528  | -76.535611 |
| 3686 | YUNGUILLO [44017130]                  | 1.400000  | -76.600000 |
| 4106 | CHONTILLAL [44010150]                 | 1.738611  | -76.589444 |
| 1185 | VILLAGOMEZ [23125150]                 | 5.271750  | -74.196778 |
| 3581 | PALOGORDO - AUT [23197690]            | 6.969167  | -73.130556 |
| 1997 | AMARGAL [56015030]                    | 5.570833  | -77.502778 |
| 968  | CUPICA [56010030]                     | 6.706556  | -77.490611 |
| 2540 | AEROPUERTO SAN LUIS - AUT [52055230]  | 0.857083  | -77.677750 |
| 1968 | LA HERMOSA [35267010]                 | 5.533333  | -70.441972 |
| 180  | ALCARAVAN AUT [37057020]              | 7.035000  | -71.416389 |
| 4022 | CANDELARIO [37057120]                 | 6.940278  | -71.208333 |
| 2855 | ESPERANZA LA [37057110]               | 7.002778  | -71.233889 |
| 3320 | PUENTE INTERNACIONA [37057060]        | 7.090833  | -70.743889 |
| 2776 | RAMOS [37057130]                      | 6.951389  | -71.186111 |
| 2774 | GUAMO EL [37057100]                   | 6.947222  | -71.219167 |
| 2842 | ANGELITOS LOS [37057040]              | 6.989167  | -71.106389 |

|      |                        |            |           |            |
|------|------------------------|------------|-----------|------------|
| 2841 | PUERTO COLOMBIA        | [37057090] | 6.983333  | -70.116667 |
| 3103 | GUARDULIO              | [37057050] | 7.063056  | -70.896389 |
| 2901 | CAJAROS LOS            | [37057030] | 7.025278  | -71.278333 |
| 1776 | SIACHOQUE              | [24037550] | 5.506096  | -73.251053 |
| 3109 | GUARATARO              | [37057080] | 7.066667  | -70.550000 |
| 3117 | NUBIA LA FINCA         | [37057070] | 7.079167  | -70.565556 |
| 1264 | SENA MOSQUERA          | [21206550] | 4.700000  | -74.216667 |
| 1265 | IDEAM FONTIBON HB      | [21202100] | 4.700000  | -74.166667 |
| 1163 | INEM KENNEDY           | [21206560] | 4.661111  | -74.134778 |
| 225  | SERRANILLA - AUT       | [17035010] | 15.797500 | -79.852222 |
| 4140 | HIDROPARAISO           | [21202160] | 4.574500  | -74.407389 |
| 1487 | NUEVO LIBARE           | [26130570] | 4.782056  | -75.645833 |
| 1952 | PIJAO                  | [26127150] | 4.333917  | -75.702972 |
| 1942 | BARRAGAN               | [26127030] | 4.337444  | -75.792056 |
| 1238 | ESPERANZA LA FINCA     | [21160210] | 3.900000  | -74.766667 |
| 1488 | NUEVO LIBARE           | [26120730] | 4.782056  | -75.645833 |
| 1920 | NUEVO LIBARE BOCAT     | [26127160] | 4.800000  | -75.616667 |
| 1921 | NUEVO LIBARE BOCAT     | [26137250] | 4.800000  | -75.616667 |
| 3066 | PUERTO CONTRERAS       | [37057140] | 7.051944  | -71.825556 |
| 1202 | PAJARITO - AUT         | [35197190] | 5.283472  | -72.701944 |
| 2120 | FINCA LA ESPERANZA     | [35197200] | 5.116667  | -72.733333 |
| 2923 | YEGUERITA 2            | [23217070] | 8.363056  | -73.572500 |
| 2237 | SILENCIO EL            | [21210260] | 4.633333  | -75.383333 |
| 1394 | MIRANDA LA             | [26180260] | 5.427167  | -75.333583 |
| 943  | SAN ANTONIO            | [27011230] | 6.620833  | -75.151667 |
| 2119 | BOCATOMA-CUSIANA       | [35197210] | 5.116667  | -72.733333 |
| 2549 | BURITACA               | [15017080] | 11.249444 | -73.762500 |
| 4388 | MILAN                  | [44030080] | 1.290000  | -75.510000 |
| 4137 | NUQUI                  | [56010040] | 5.708056  | -77.265833 |
| 3355 | RAGONVALIA             | [16015100] | 7.576667  | -72.483889 |
| 1943 | CEMENTOS DIAMANTE      | [21215140] | 4.331306  | -75.080667 |
| 3789 | SAN JUAN               | [21057120] | 2.351889  | -76.313056 |
| 2209 | SAN JUAN               | [21050320] | 2.343444  | -76.308417 |
| 3584 | BOTANA                 | [52055040] | 1.160000  | -77.278806 |
| 306  | AEROPUERTO CATAM       | [21206570] | 4.705583  | -74.150667 |
| 4357 | PUERTO ANGOSTURAS      | [32060100] | 3.790000  | -73.920000 |
| 4146 | MAJADAS - AUT          | [23197700] | 7.160278  | -73.093056 |
| 328  | NUEVA GENERACION - AUT | [21206600] | 4.782222  | -74.094333 |
| 2312 | COL SANTIAGO PEREZ     | [21206660] | 4.576222  | -74.130917 |
| 2248 | COL H DURAN DUSAN      | [21206620] | 4.634611  | -74.173750 |
| 1368 | COL NUEVO RETIRO       | [21206680] | 4.734111  | -74.037028 |
| 2395 | SAN JOSE               | [21206640] | 4.501556  | -74.119306 |
| 1930 | COL MIGUEL A. CARO     | [21206690] | 4.813167  | -74.031111 |
| 2336 | EFRAIN CA#AVERAL       | [21206610] | 4.583333  | -74.066667 |
| 3815 | COLEGIO SAN CAYETANO   | [21206650] | 4.516753  | -74.088222 |
| 1371 | BILBAO MAXIMO POTI     | [21206630] | 4.751139  | -74.091583 |
| 1727 | COL BUCKINGHAM         | [21206670] | 4.792056  | -74.049583 |
| 2023 | LOMITAS                | [26025110] | 3.075389  | -76.556250 |
| 3808 | NECHI                  | [25025140] | 8.100000  | -74.766667 |
| 829  | JARDIN BOTANICO        | [27015270] | 6.266917  | -75.563167 |
| 1254 | CEA CENT.EST.AERO.     | [21206700] | 4.691028  | -74.134417 |
| 1329 | COLONIAS LAS           | [54077200] | 4.001083  | -76.975444 |
| 1274 | ELDORADO CATAM - AUT   | [21205791] | 4.705583  | -74.150667 |
| 193  | SAIZA - AUT            | [29045150] | 7.746028  | -76.432500 |
| 4113 | CHIMAYOY               | [52055110] | 1.263333  | -77.284444 |

|      |  |           |            |
|------|--|-----------|------------|
| 87   | PUERTO INIRIDA - AUT [31095030]              | 3.874417  | -67.919056 |
| 3786 | AEROPUERTO CONDOTO [54020090]                | 5.073500  | -76.676667 |
| 1674 | JAPIO [26020470]                             | 3.048361  | -76.441417 |
| 3810 | SAN RAFAEL [24035180]                        | 5.783333  | -72.983333 |
| 4199 | PUPUREMA II [1506700143]                     | 11.162808 | -72.479169 |
| 4198 | PUPUREMA I [1506700144]                      | 11.194850 | -72.514275 |
| 19   | BOTANA - AUT [52055210]                      | 1.160000  | -77.278806 |
| 2    | EL PARAISO - AUT [52055220]                  | 1.070611  | -77.636889 |
| 4412 | ESTRECHO PATIA - AUT [52025080]              | 1.960000  | -77.120000 |
| 21   | VIENTO LIBRE - AUT [52035040]                | 1.620000  | -77.340000 |
| 4398 | CARMEN DE BOLIVAR - AUT [29015040]           | 9.720000  | -75.110000 |
| 64   | AEROPUERTO GUAPI - AUT [53045040]            | 2.574417  | -77.894750 |
| 220  | EL GUAMO - AUT [29015000]                    | 10.064444 | -74.852222 |
| 34   | UNIVERSIDAD DE NARINO - AUT [52045080]       | 1.230000  | -77.280000 |
| 4303 | HACIENDA SANTA ANA - AUT [21206790]          | 5.090000  | -73.880000 |
| 131  | EMAS - AUT [26155230]                        | 5.085250  | -75.507139 |
| 132  | HACIENDA SANTA ANA - AUT [21206790]          | 5.090500  | -73.881250 |
| 129  | VILLAMARIA - AUT [26155220]                  | 5.048667  | -75.513889 |
| 2636 | AEROPUERTO ALM. PADILLA - [15065180]         | 11.529611 | -72.917667 |
| 130  | TORRE 4 - AUT [26155210]                     | 5.060778  | -75.356111 |
| 103  | PNN QUIMBAYA - AUT [26135300]                | 4.728583  | -75.578222 |
| 356  | ESTANCIA LA [23060370]                       | 4.966667  | -74.366667 |
| 116  | UNIVERSIDAD NACIONAL - AUT [21205012]        | 4.638083  | -74.089083 |
| 208  | PUERTA ROJA - AUT [25025350]                 | 9.316389  | -75.387500 |
| 4310 | ARAGON - AUT [27015320]                      | 6.780000  | -75.560000 |
| 199  | CERCADO EL-AUTOMAT [15067020]                | 10.907500 | -73.008333 |
| 495  | CERCADO EL - AUTATICO [15060290]             | 10.915139 | -73.011528 |
| 4393 | CORRAL DE PIEDRA - AUT [28017140]            | 10.830000 | -73.070000 |
| 88   | SUBIA - AUT [21195160]                       | 4.476611  | -74.383889 |
| 114  | ARMENIA - AUT [26125290]                     | 4.531583  | -75.690694 |
| 92   | UNIVERSIDAD DE CUNDINAMARCA - AUT [21235030] | 4.305333  | -74.808111 |
| 100  | CALARCA - AUT [26125300]                     | 4.528306  | -75.596389 |
| 32   | LA LAGUNA DE CAJIBIO [26035090]              | 2.699175  | -76.595444 |
| 297  | LA SELVA - AUT [23085260]                    | 6.131917  | -75.414556 |
| 189  | UNIVERSIDAD DE PAMPLONA - AUT [16015120]     | 7.360944  | -72.666056 |
| 210  | PAICI - AUT [15075150]                       | 11.594944 | -72.325750 |
| 605  | TERMOTASAJERO - AUT [16020520]               | 7.833333  | -72.633333 |
| 194  | TERMOTASAJERO [16057090]                     | 7.833333  | -72.633333 |
| 604  | TERMOTASAJERO - AUT [16027310]               | 7.833333  | -72.633333 |
| 177  | PARAMO ALMORZADERO - AUT [24035390]          | 6.945389  | -72.696333 |
| 179  | VIZCAINA LA LIZAMA - AUT [24055080]          | 6.982972  | -73.704889 |
| 178  | SAN VICENTE DE CHUCURI - AUT [24055070]      | 6.823389  | -73.472056 |
| 161  | MOGOTES - AUT [24025090]                     | 6.470000  | -72.968889 |
| 4301 | TIBAITATA - AUT [21206990]                   | 4.690000  | -74.210000 |
| 99   | TIBAITATA - AUT [21206990]                   | 4.691417  | -74.209000 |
| 2596 | REPRESA URRRA [13015040]                     | 8.014167  | -76.203056 |
| 173  | PUENTE CAPIRA - AUT [16027300]               | 7.537194  | -72.771139 |
| 244  | PUENTE CAPIRA [16057080]                     | 7.500000  | -72.766667 |
| 237  | INCODER - AUT [13055040]                     | 8.746944  | -75.913889 |
| 3861 | VEGACHI - AUT [23105060]                     | 6.774111  | -74.796528 |
| 3839 | SANTA ISABEL VALDIVIA - AUT [26255030]       | 6.160000  | -75.440000 |
| 176  | PARAMO BELMIRA - AUT [27015280]              | 6.632028  | -75.644444 |
| 101  | PARAMO CHINGAZA - AUT [35035130]             | 4.713667  | -73.803250 |
| 296  | HACIENDA COTOVE - AUT [26225060]             | 6.533917  | -75.827333 |
| 159  | JERICO - AUT [26185030]                      | 5.799167  | -75.789528 |

|      |                         |                  |           |            |
|------|-------------------------|------------------|-----------|------------|
| 156  | SANTA BARBARA           | - AUT [26185050] | 5.859583  | -75.556278 |
| 331  | PARAMO GUERRERO         | - AUT [21206930] | 5.086444  | -74.022167 |
| 83   | SAN CAYETANO            | - AUT [23125170] | 5.333333  | -74.016667 |
| 212  | EL TESORO IDEAM         | - AUT [25025280] | 9.357083  | -75.289250 |
| 147  | AQUITANIA               | - AUT [35095120] | 5.556639  | -72.881750 |
| 152  | SOCHA                   | - AUT [24035360] | 5.985417  | -72.997028 |
| 128  | VILLETA                 | - AUT [23065180] | 5.016861  | -74.470972 |
| 127  | ZETAQUIRA               | - AUT [35085060] | 5.294944  | -73.169944 |
| 142  | SAN PABLO DE BORBUR     | - AUT [23125160] | 5.647028  | -74.071306 |
| 157  | TUNGUAVITA              | - AUT [24035430] | 5.745917  | -73.116361 |
| 2736 | AEROPUERTO SESQUICENTEN | [17015020]       | 12.542183 | -81.730969 |
| 1824 | PROY.CENTRAL HIDRO      | [38017080]       | 5.525944  | -68.749722 |
| 125  | CHINAVITA               | - AUT [35075070] | 5.219250  | -73.350389 |
| 133  | LA CAPILLA              | - AUT [35085080] | 5.099194  | -73.436000 |
| 108  | SANTA MARIA             | - AUT [35085070] | 4.841250  | -73.256694 |
| 121  | PARAMO RABANAL          | - AUT [35075080] | 5.392389  | -73.562778 |
| 3792 | PUENTE ARAGON           | [26010100]       | 2.191583  | -76.482306 |
| 115  | IDEAM BOGOTA            | - AUT [21206960] | 4.600000  | -74.066667 |
| 3864 | LA LOMA PUEBLO          | [11037030]       | 5.584667  | -76.753278 |
| 144  | BORAUDO                 | - AUT [11027070] | 5.514611  | -76.575694 |
| 309  | PUERTO BOLIVAR          | - AUT [15079010] | 12.224278 | -71.967667 |
| 211  | TOROMANA                | - AUT [15085050] | 12.083528 | -71.210944 |
| 486  | AEROPUERTO E. CORTISSOZ | - AUT [29045190] | 10.917778 | -74.779722 |
| 3330 | AEROPUERTO PALONEGRO    | [23195502]       | 7.121472  | -73.184528 |
| 2860 | AEROPUERTO RAFAEL NUNEZ | [14015080]       | 10.447250 | -75.516028 |
| 255  | AP.PALO NEGRO           | [23195250]       | 7.121472  | -73.184528 |
| 205  | LORICA ITA              | - AUT [13085050] | 9.252722  | -75.844417 |
| 1478 | COCORA                  | [21217300]       | 4.368417  | -75.335417 |
| 240  | LA PALOMERA             | - AUT [35185010] | 4.260361  | -72.564472 |
| 118  | SANTA ROSITA            | - AUT [21209920] | 5.192250  | -73.779056 |
| 106  | CIUDAD BOLIVAR          | [21206940]       | 4.576861  | -74.176778 |
| 4487 | EL DIABLO               | - AUT [22025040] | 2.980000  | -76.060000 |
| 65   | HACIENDA MANILA         | - AUT [21115180] | 3.133056  | -75.081528 |
| 174  | MACEO                   | - AUT [23105070] | 6.571639  | -74.794722 |
| 113  | MARSELLA                | - AUT [26135290] | 4.929583  | -75.738389 |
| 70   | JUANCHACO               | - AUT [54077210] | 3.925147  | -77.349006 |
| 79   | EL VINCULO              | - AUT [26095320] | 3.360417  | -76.300006 |
| 66   | LA DIANA                | - AUT [26075120] | 3.314056  | -76.185694 |
| 69   | SILOE                   | - AUT [26085160] | 3.425500  | -76.560611 |
| 2286 | LA INDEPENDENCIA        | - AUT [26055110] | 3.185361  | -76.569306 |
| 2278 | FARALLONES              | - AUT [26055100] | 3.416056  | -76.651500 |
| 22   | EL TABLAZO              | - AUT [26015010] | 2.474833  | -76.581294 |
| 2092 | SILOE                   | - AUT [23085250] | 3.425500  | -76.560611 |
| 80   | EL PLACER               | - AUT [26105240] | 3.879111  | -76.100556 |
| 3505 | LAS BRISAS              | - AUT [26115090] | 4.775583  | -76.144278 |
| 95   | ZARAGOZA                | - AUT [26105250] | 4.689778  | -75.925194 |
| 299  | METROMEDELLIN           | - AUT [27015310] | 6.329750  | -75.552111 |
| 4382 | MACAGUAL                | - AUT [44035050] | 1.500000  | -75.660000 |
| 303  | DESIERTO LA TATACOA     | [21115010]       | 3.234472  | -75.168194 |
| 24   | PURACE                  | - AUT [21015050] | 1.925917  | -76.427556 |
| 330  | PARAMO GUACHENEQUE      | - AUT [21206950] | 5.236056  | -73.525083 |
| 4    | PUERTO NARINO           | - AUT [48015040] | -3.780306 | -70.362639 |
| 85   | VILLA TERESA            | - AUT [21206920] | 4.350000  | -74.150000 |
| 35   | LA PLATA                | - AUT [21115170] | 2.759139  | -75.074556 |
| 72   | PAQUILO                 | - AUT [21195170] | 3.993611  | -74.398056 |

|      |   |           |            |           |            |
|------|---|-----------|------------|-----------|------------|
| 28   | MARENGO                                 | - AUT     | [21015060] | 2.221111  | -76.118889 |
| 323  | LOS GUACHAROS                           | - AUT     | [21015070] | 1.675833  | -76.106841 |
| 25   | LA PRIMAVERA                            | - AUT     | [21015040] | 2.021583  | -76.114333 |
| 234  | FEDEARROZ                               | - AUT     | [28035060] | 10.463611 | -73.248056 |
| 175  | NEOMUNDO                                |           |            | 7.099997  | -73.110000 |
| 229  | MANAURE                                 | - AUT     | [28015110] | 10.365333 | -72.997639 |
| 335  | ALCALDIA DE HERRAN                      | - AUT     | [16015130] | 7.506722  | -72.485361 |
| 172  | EL TAGUAL                               | - AUT     | [23117030] | 6.733056  | -74.159750 |
| 184  | AGUACHICA                               | - AUT     | [23195240] | 8.123417  | -73.579861 |
| 3461 | ESMERALDA LA                            |           | [29065110] | 10.639833 | -74.262500 |
| 84   | PASCA                                   | - AUT     | [21195190] | 4.310111  | -74.311750 |
| 166  | VILLANUEVA VILLAHERMOSA                 |           | [27015300] | 6.253278  | -75.550000 |
| 294  | CHIGORODO                               | - AUT     | [12015110] | 7.671139  | -76.694056 |
| 37   | GORGONA GUAPI                           |           | [57025020] | 2.962944  | -78.174361 |
| 4181 | PISTA INDIRA                            | - AUT     | [12015100] | 7.940750  | -76.696167 |
| 27   | LA SIERRA                               | - AUT     | [52025090] | 2.193833  | -76.750333 |
| 301  | UNGUIA                                  | - AUT     | [11135030] | 8.036722  | -77.087861 |
| 2603 | AEROPUERTO A.BONILLA                    | - AUT     | [26075150] | 3.532992  | -76.382500 |
| 3646 | ISLA FARO VIUDO                         |           | [51039020] | 1.852194  | -78.713694 |
| 26   | BALBOA                                  | - AUT     | [52015050] | 2.032778  | -77.221667 |
| 3855 | CARMEN DEL DARIEN                       | -AUT      | [11105020] | 7.154333  | -76.977194 |
| 31   | EL DIVISO                               | - AUT     | [53075020] | 2.311417  | -77.258778 |
| 135  | QUEBRADA NEGRA                          | - AUT     | [23065190] | 5.137611  | -74.481250 |
| 230  | SAN MARCOS                              | - AUT     | [25025340] | 8.596833  | -75.142694 |
| 2906 | UNIVERSIDAD FRANCISO DE PAULA SANTANDER | - AUT ... |            | 7.898778  | -72.487167 |
| 317  | LA LAGUNA DEL OTUN                      | - AUT     | [26135330] | 4.776361  | -75.412500 |
| 71   | NATAIMA                                 | - AUT     | [21185090] | 4.188139  | -74.960472 |
| 78   | NEVADO SANTA ISABEL                     | - AUT     | [26135320] | 4.802611  | -75.380472 |
| 327  | NEVADO DEL TOLIMA                       | - AUT     | [21215150] | 4.670778  | -75.327778 |
| 93   | CERROS NOROCCIDENTALES                  | - AUT     | [21215160] | 4.470361  | -75.243861 |
| 97   | HACIENDA PAJONALES                      |           | [21255160] | 4.760722  | -74.834250 |
| 124  | SANTA EMILIA                            | - AUT     | [26145090] | 5.207472  | -75.902944 |
| 111  | MURILLO                                 | - AUT     | [21255170] | 4.870556  | -75.173278 |
| 109  | SANTA ROSA                              | - AUT     | [26135310] | 4.846861  | -75.635639 |
| 136  | BASE PALANQUERO                         | - AUT     | [23035030] | 5.492861  | -74.658000 |
| 105  | SANTA CRUZ DE SIECHA                    | - AUT     | [21206980] | 4.784278  | -73.870806 |
| 63   | INZA                                    | - AUT     | [21055070] | 2.548194  | -76.063944 |
| 3    | EL PEPINO                               | - AUT     | [44015070] | 1.082889  | -76.667111 |
| 169  | PAJARITO                                | - AUT     | [27015290] | 6.286333  | -75.612792 |
| 120  | AEROPUERTO YOPAL                        | - AUT     | [35215020] | 5.320444  | -72.387500 |
| 61   | NEVADO DEL COCUI                        | - AUT     | [24035380] | 6.509111  | -72.314167 |
| 160  | EL DIAMANTE                             | - AUT     | [36015020] | 5.816194  | -71.419833 |
| 164  | EL ESPINO                               | - AUT     | [24035370] | 6.506722  | -72.452667 |
| 307  | HACIENDA SUECIA                         | - AUT     | [26035100] | 2.479556  | -76.827750 |
| 167  | BAHIA SOLANO                            | - AUT     | [56019010] | 6.268639  | -77.433167 |
| 7    | CERRO PARAMO                            | - AUT     | [52055150] | 0.843111  | -77.388806 |
| 102  | BATALLON ROOKE                          | - AUT     | [21215180] | 4.418389  | -75.248667 |
| 1    | LA JOSEFINA                             | - AUT     | [52055170] | 0.930306  | -77.491194 |
| 94   | LA MARTINICA                            | - AUT     | [21215170] | 4.402000  | -75.229056 |
| 81   | CAJAMARCA                               | - AUT     | [21215190] | 4.435667  | -75.500361 |
| 12   | BIOTOPO                                 | - AUT     | [51025060] | 1.408639  | -78.281611 |
| 134  | PARAMO TATAMA                           |           | [26145080] | 5.123861  | -76.061000 |
| 20   | RICAUARTE                               | - AUT     | [51025070] | 1.215333  | -77.996917 |
| 928  | VOLCAN CHILES                           | - AUT     | [52055160] | 0.846583  | -77.921222 |
| 419  | FLORENCIA                               | - AUT     | [44035040] | 1.733000  | -75.645028 |

|      |   |           |            |
|------|---|-----------|------------|
| 5    | CAHUINARI - AUT [44135020]                        | -1.351667 | -70.803750 |
| 6    | CHIRIBIQUETE - AUT [44135030]                     | -0.074167 | -72.451389 |
| 235  | BATALLON NO. 6 - AUT [29065120]                   | 10.465361 | -73.927778 |
| 202  | GUATAPURI - AUT [28035070]                        | 10.732139 | -73.392417 |
| 141  | PIE DE PATO - AUT [55015010]                      | 5.521083  | -76.973167 |
| 18   | ACUEDUCTO MOCOA - AUT [44015060]                  | 1.157333  | -76.651833 |
| 4405 | ICA VILLAVICENCIO [35030370]VILLAVICENCIO SEDE... | 4.140000  | -73.620000 |
| 334  | AGUAS DE LA VIRGEN - AUT [16055120]               | 8.227694  | -73.397500 |
| 3780 | LAS FLORES - AUT [29045180]                       | 11.039361 | -74.819750 |
| 1326 | DARCENA BARRANQUIL [29047080]                     | 10.970000 | -74.760000 |
| 770  | VOLCAN EL [24035400]                              | 6.845278  | -72.677778 |
| 592  | TAJAMAR OCCIDENTAL [14019040]                     | 11.106306 | -74.854722 |
| 2431 | PUERTO MELUK AUTO [55017010]                      | 5.189889  | -76.954222 |
| 1358 | BODEGA LA [21240110]                              | 4.735611  | -75.138917 |
| 2786 | NECHI [27040040]                                  | 8.097167  | -74.769444 |
| 2948 | BASE AEREA MARCO FIDEL SUAREZ - AUT [26085170]    | 3.360417  | -76.299722 |
| 586  | FILO CARTAGENA [15010310]                         | 11.100278 | -73.843222 |
| 68   | UNIVERSIDAD DEL VALLE - AUT [26055120]            | 3.378000  | -76.533889 |
| 4287 | AEROPUERTO J.M. CORDOVA - AUT [23085270]          | 6.170000  | -75.430000 |
| 222  | SERRANIA DEL PERIJA - AUT [28025120]              | 10.029083 | -73.046194 |
| 2345 | PUENTE VARIANTE [23017090]                        | 5.202917  | -74.749167 |
| 282  | ALTAQUER - AUT [51025080]                         | 1.248333  | -78.092500 |
| 4361 | ICA VILLAVICENCIO - AUT [35035100]                | 4.140000  | -73.620000 |
| 596  | SALINAS DE UPIN - AUT [35035110]                  | 4.273861  | -73.586861 |
| 170  | LA LIBERTAD - AUT [35025110]                      | 4.057361  | -73.467917 |
| 3508 | CAPURGANA - AUT [11155030]                        | 8.616250  | -77.328194 |
| 3662 | EL COMUN [52045090]                               | 0.932639  | -77.629583 |
| 2575 | AREMASAHIN - AUT [15067180]                       | 11.480778 | -72.715167 |
| 683  | IDEAM SANTA MARTA [15010501]                      | 11.222222 | -74.179917 |
| 2523 | NARANJOS LOS [47017200]                           | 0.384333  | -76.396806 |
| 2519 | BELLAVISTA [47017190]                             | -0.387694 | -74.579333 |
| 3768 | TROMPETEROS [47087030]                            | -2.267278 | -71.514972 |
| 110  | PNN NEVADOS - AUT [26155240]                      | 4.859444  | -75.382417 |
| 3736 | VOLCAN SOTARA [52025070]                          | 2.066333  | -76.628778 |
| 223  | REPELON - AUT [29035200]                          | 10.490000 | -75.126944 |
| 213  | UNIVERSIDAD TECNOLOGICA - AUT [15015120]          | 11.223056 | -74.185917 |
| 308  | PNN LA PAYA - AUT [47035030]                      | -0.173722 | -74.898139 |
| 1809 | PNN PURACE - AUT [26015030]                       | 2.356849  | -76.403544 |
| 74   | PARAMO DE YERBABUENA - AUT [22075050]             | 4.075806  | -75.700833 |
| 4299 | ARGELIA ANTIOQUIA - AUT [23050420]                | 5.730000  | -75.140000 |
| 501  | BARRANQUILLA SEDE [29040450]                      | 10.997611 | -74.796722 |
| 2036 | ALPES LOS - AUT [21055060]                        | 2.971139  | -76.115778 |
| 329  | PARAMO CONEJERAS - AUT [26155250]                 | 4.829806  | -75.375833 |
| 1590 | SENDERO LAGUNA VERDE - AUT [26155260]             | 4.840667  | -75.361611 |
| 1940 | CONEJERAS1 - AUT [26157160]                       | 4.819167  | -75.377861 |
| 158  | SOGAMOSO - AUT [24035410]                         | 5.753333  | -72.911153 |
| 107  | PNN CHINGAZA - AUT [35025080]                     | 4.661000  | -73.827333 |
| 3695 | CONEJERAS2 - AUT [26157170]                       | 4.820389  | -75.377139 |
| 3791 | PUENTE ARAGÓN [26010100]                          | 2.191583  | -76.482306 |
| 3802 | LA SALVAJINA [26035040]                           | 2.950000  | -76.700000 |
| 2592 | JHB CAUCASIA [26245040]                           | 8.005639  | -75.146944 |
| 2409 | UNISALLE CENTRO [21206970]                        | 4.595000  | -74.070361 |
| 3863 | CALOSTROS BAJO - AUT [35027510]                   | 4.664500  | -73.863083 |
| 3880 | CALOSTROS BAJO - AUT [35025100]                   | 4.673778  | -73.818889 |
| 1169 | QUEBRADA RINCON - AUT [35027500]                  | 4.664944  | -73.857389 |

|      |                              |             |           |            |
|------|------------------------------|-------------|-----------|------------|
| 338  | BOSQUE INTERVENIDO - AUT     | [35025090]  | 4.664889  | -73.846639 |
| 3828 | SAN ANTONIO                  | [26157210]  | 4.886611  | -75.428972 |
| 3640 | SAN ANTONIO CALDAS - AUT     | [26155270]  | 4.886611  | -75.428972 |
| 500  | SAN FRANCISCO                | [15067170]  | 10.991222 | -72.756083 |
| 487  | PUENTE GUAJIRO - AUT         | [15067150]  | 10.926444 | -72.804389 |
| 182  | BERLIN - AUT                 | [37015030]  | 7.187000  | -72.868500 |
| 1720 | SAN JOSE DEL GUAVIARE        | [32105080]  | 2.550000  | -72.650000 |
| 29   | SAN VICENTE DEL CAGUAN - AUT | [46015030]  | 2.063000  | -74.762694 |
| 198  | LA GRAN VIA - AUT            | [29065130]  | 10.850000 | -74.133333 |
| 3833 | QUIBDO - AUT                 | [11047040]  | 5.700000  | -76.660000 |
| 2013 | RIO CLARO - AUT              | [26157190]  | 4.900917  | -75.451111 |
| 1805 | SIETECUERALES - AUT          | [26157200]  | 4.860222  | -75.374639 |
| 3812 | BOCATOMA EAAB - AUT          | [35027520]  | 4.661028  | -73.833333 |
| 4107 | NORTES LOS - AUT             | [52070040]  | 1.741111  | -77.531111 |
| 522  | URRA SANDUBO                 | [13017050]  | 7.751500  | -76.227778 |
| 2274 | TRAPICHE EL                  | [23065200]  | 5.028194  | -74.503917 |
| 1023 | CERINZA                      | [240354200] | 5.962250  | -72.938500 |
| 2054 | SABOYA LA GRANJA             | [24015360]  | 5.696222  | -73.759000 |
| 3758 | AEROPUERTO VASQUEZ COBO      | [48015050]  | -4.193861 | -69.940917 |
| 2997 | MARAVILLA LA                 | [16050290]  | 8.407778  | -73.213611 |
| 984  | RIO CLARO                    | [23070020]  | 5.855528  | -74.848361 |
| 3713 | FUNES                        | [52055200]  | 1.004222  | -77.445806 |
| 1648 | IDEAM V/CIO                  | [35030380]  | 4.144083  | -73.641833 |
| 1729 | UNISALLE NORTE               | [21205013]  | 4.794444  | -74.030556 |
| 3410 | GAMARRA                      | [23217020]  | 8.321361  | -73.746222 |
| 1938 | PUENTE REYES                 | [35067330]  | 4.817750  | -73.642611 |
| 1654 | ARUSI                        | [56010050]  | 5.595778  | -77.475611 |
| 318  | LA LOMA CARBONES - AUT       | [28025130]  | 9.640611  | -73.523944 |
| 3282 | FCA.LA PALMITA               | [16015140]  | 7.517361  | -72.644083 |
| 1291 | CARMEN DE CARUPA - AUT       | [24015380]  | 5.347222  | -73.898333 |
| 1280 | ALIZOS LOS                   | [24011150]  | 5.329389  | -73.850056 |
| 3657 | NEV SANTA ISABEL             | [26155280]  | 4.817583  | -75.374056 |
| 897  | HACIENDA MAJAVITA UL         | [24015370]  | 6.471806  | -73.248583 |
| 1109 | ARRAYANALES - AUT            | [26015040]  | 2.448041  | -76.435747 |
| 4009 | AREMASAHIN - AUT             | [15067190]  | 11.480778 | -72.715167 |
| 485  | EL SILENCIO - AUT            | [15067200]  | 10.917083 | -72.915333 |
| 1991 | NEIVA                        | [21110460]  | 2.939722  | -75.249028 |
| 1929 | EMMA GLACIAR CONEJERAS       | [26155501]  | 4.812972  | -75.370778 |
| 851  | LAGUNA LA PLAZA              | [35095130]  | 6.362000  | -72.282017 |
| 3803 | LEJANIAS                     | [32067020]  | 3.533333  | -74.016667 |
| 2705 | TACAMOCHO I                  | [25028450]  | 9.433889  | -74.735556 |
| 4128 | LAURELES-MEDELLIN            | [27011270]  | 6.246417  | -75.591056 |
| 1246 | PUENTE CALAMAR - AUT         | [29037820]  | 10.260000 | -74.910000 |
| 206  | MONGUI - AUT                 | [15065190]  | 11.226778 | -72.820639 |
| 246  | CARACOLI - AUT               | [15067210]  | 10.950111 | -73.051028 |
| 247  | PUENTE CARRETERA             | [15067220]  | 11.510972 | -72.855944 |
| 217  | GAMARRA - AUT                | [23217080]  | 8.284286  | -73.753389 |
| 1928 | PALETARA - AUT               | [26015050]  | 2.191722  | -76.482028 |
| 3014 | TAMBO EL - AUT AUT           | [29037001]  | 10.184389 | -75.283056 |
| 221  | GAMBOTE CANAL DEL            | [29037080]  | 10.162222 | -75.298611 |
| 1538 | PLAZA DE FERIAS              | [35027001]  | 4.403389  | -73.940556 |
| 1539 | PARQUE RAFAEL NUNEZ          | [35027002]  | 4.407417  | -73.947500 |
| 3854 | JOTOMANA                     | [15067280]  | 11.318914 | -72.554056 |
| 496  | PORCIOSA                     | [15067290]  | 11.232169 | -72.513975 |
| 224  | SINCERIN - AUT               | [29035000]  | 10.142583 | -75.278278 |

|      |  |           |            |
|------|--|-----------|------------|
| 200  | AEROPUERTO LAS FLORES - AUT [25025360]     | 9.046333  | -73.970833 |
| 245  | TEBSA BQUILLA [29047000]                   | 10.936639 | -74.759889 |
| 207  | LOS ALAMOS - AUT [25025002]                | 9.304056  | -74.273639 |
| 239  | SABANALARGA - AUT [29045000]               | 10.636722 | -74.918889 |
| 236  | MEDIA LUNA - AUT [29065000]                | 10.510028 | -74.506667 |
| 216  | EL DIFICIL - AUT [25025000]                | 9.911972  | -74.085806 |
| 4484 | SOLMAFORO PEREIRA [26125510]               | 4.810000  | -75.690000 |
| 62   | LA PLAYA, CARDENILLO [24037001]            | 6.499556  | -72.376139 |
| 3881 | PUENTE VDA. CALVARIO [24037620]            | 6.490361  | -72.407000 |
| 3883 | RITACUBA NEGRO - [24037630]                | 6.509056  | -72.329500 |
| 4328 | SAN MARCOS - AUT [25027750]                | 8.650000  | -75.130000 |
| 4434 | ESTACIÓN ISOTÓPICA BOGOTÁ_01               | 4.696447  | -74.158914 |
| 4415 | ESTACIÓN ISOTÓPICA BOGOTÁ_01               | 4.696447  | -74.158914 |
| 1132 | PALOTAL AUT [29037003]                     | 10.090000 | -75.490000 |
| 4189 | BUENAVISTA - AUT [25020520]                | 8.222222  | -75.467500 |
| 155  | QUITASUENO - AUT [26187040]                | 5.721139  | -75.552583 |
| 4337 | SAN PEDRO - AUT [25020504]                 | 9.400000  | -75.020000 |
| 226  | SAJONIA HACIENDA - AUT [25020600]          | 8.489722  | -75.601389 |
| 232  | TREMENTINO - AUT [25020430]                | 8.716667  | -75.766667 |
| 4347 | GUAJARO COMPUERTAS [29037701]              | 10.410000 | -75.070000 |
| 279  | TOLUVIEJO [13090050]                       | 9.438000  | -75.440000 |
| 3010 | BARRANCAVIEJA - AUT [14017702]             | 10.164528 | -74.940667 |
| 3518 | SAN CRISTOBAL - AUT [29057001]             | 10.392278 | -75.061444 |
| 3259 | CAPOTE - AUT [29037702]                    | 10.278444 | -75.165333 |
| 3269 | JOB0 - AUT (29057005) [29057005]           | 10.329869 | -75.044864 |
| 3224 | MAHATES - AUT [14017701]                   | 10.239786 | -75.203808 |
| 4422 | ESTACIÓN ISOTÓPICA IBAGUE_01               | 4.435631  | -75.208828 |
| 4442 | ESTACIÓN ISOTÓPICA IBAGUE_01               | 4.435631  | -75.208828 |
| 4294 | OLAYA HERRERA - AUT [27015330]             | 6.220000  | -75.590000 |
| 4444 | ESTACIÓN ISOTÓPICA PASTO_01                | 1.225653  | -77.283286 |
| 4424 | ESTACIÓN ISOTÓPICA PASTO_01                | 1.225653  | -77.283286 |
| 2746 | AEROPUERTO PUERTO BOLIVAR - AUT [15075501] | 12.224306 | -71.982889 |
| 1801 | LA MINA CERREJON - AUT [15065501]          | 11.137583 | -72.615944 |
| 3816 | EL TARRA [16045020]                        | 8.588611  | -73.081111 |
| 4481 | PUENTE LA FONDA [23057701]                 | 4.870222  | -75.402361 |
| 3576 | AEROPUERTO MATECANA [26125710]             | 4.812675  | -75.739519 |
| 1761 | SOLMAFORO CALI - AUT [26305501]            | 3.366972  | -76.530083 |
| 3235 | CHEMESQUEMENA [28017150]                   | 10.712222 | -73.402222 |
| 3074 | MACHADO AUT [29057003]                     | 10.234722 | -74.968972 |
| 4486 | ESTACIÓN ISOTÓPICA PEREIRA_01              | 4.804233  | -75.675181 |
| 4425 | ESTACIÓN ISOTÓPICA PEREIRA_01              | 4.804233  | -75.675181 |
| 4417 | ESTACIÓN ISOTÓPICA BARRANQUILLA_01         | 10.882247 | -74.779708 |
| 4436 | ESTACIÓN ISOTÓPICA BARRANQUILLA_01         | 10.882247 | -74.779708 |
| 4440 | ESTACIÓN ISOTÓPICA CARTAGENA_01            | 10.447244 | -75.516058 |
| 4420 | ESTACIÓN ISOTÓPICA CARTAGENA_01            | 10.447244 | -75.516058 |
| 219  | BEIRUT - AUT [25027760]                    | 8.302222  | -75.133889 |
| 203  | SAN BENITO - AUT [25025380]                | 9.163889  | -75.044722 |
| 3632 | SOLMAFORO PASANTO - AUT [52045501]         | 1.232333  | -77.285139 |
| 4438 | ESTACIÓN ISOTÓPICA BUCARAMANGA_01          | 7.141389  | -73.118333 |
| 4447 | ESTACIÓN ISOTÓPICA VILLAVICENCIO_01        | 4.137500  | -73.625000 |
| 4313 | ESTACIÓN ISOTÓPICA BUCARAMANGA_01          | 7.141389  | -73.118333 |
| 4432 | ESTACIÓN ISOTÓPICA VILLAVICENCIO_01        | 4.137500  | -73.625000 |
| 285  | MAIPURES CABAÑAS [38027700]                | 5.249472  | -67.855611 |
| 1290 | CENTRO ADTIVO TOMO [34037700]              | 5.353500  | -67.854306 |
| 201  | CHINU - AUT [25020470]                     | 9.117778  | -75.393333 |



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| 218  | AYAPEL - AUT [25025030]                        | 8.295064  | -75.164556 |
| 3236 | MARIA LA BAJA - AUT. [29057006]                | 9.983333  | -75.300000 |
| 3302 | AEROPUERTO LOS GARZONES [13035501]             | 8.825833  | -75.825139 |
| 3681 | SANDE EL [52067040]                            | 1.400556  | -77.768056 |
| 3837 | LA ESPERANZA [3515000110]                      | 3.790000  | -72.270000 |
| 700  | AEROPUERTO CAMILO DAZA - AUT [16015501]        | 7.931611  | -72.511250 |
| 4445 | ESTACIÓN ISOTÓPICA SAN ANDRES_01               | 12.532667 | -81.718583 |
| 4448 | ESTACIÓN ISOTÓPICA VILLAVICENCIO_02            | 4.131017  | -73.689044 |
| 4426 | ESTACIÓN ISOTÓPICA SAN ANDRES_01               | 12.532667 | -81.718583 |
| 4429 | ESTACIÓN ISOTÓPICA VILLAVICENCIO_02            | 4.131017  | -73.689044 |
| 4441 | ESTACIÓN ISOTÓPICA DUITAMA_01                  | 5.787394  | -73.051642 |
| 4421 | ESTACIÓN ISOTÓPICA DUITAMA_01                  | 5.787394  | -73.051642 |
| 4490 | ESTACIÓN ISOTÓPICA SANTIAGO DE CALI_01         | 3.317708  | -76.636692 |
| 4428 | ESTACIÓN ISOTÓPICA SANTIAGO DE CALI_01         | 3.317708  | -76.636692 |
| 4418 | ESTACIÓN ISOTÓPICA BOLIVAR_01                  | 5.314250  | -75.126444 |
| 4437 | ESTACIÓN ISOTÓPICA BOLIVAR_01                  | 5.314250  | -75.126444 |
| 1170 | SOLMAFORO BOGOTA - [21205529]                  | 4.667542  | -74.060447 |
| 2236 | SOLMAFORO BOGOTA - [21205528]                  | 4.629583  | -74.090197 |
| 811  | SOLMAFORO MEDELLIN [27015502]                  | 6.245131  | -75.576978 |
| 3532 | SOLMAFORO CARTAGENA\t [1206550]                | 10.420028 | -75.551139 |
| 3075 | LEQUERICA - AUT - AUT [29057002]               | 10.237667 | -75.518861 |
| 1813 | RADIO SONDA LETICIA - AUT [4801500132]         | -4.199722 | -69.943056 |
| 1911 | RADIO SONDA SAN ANDRES ISLA - AUT [1701500133] | 12.588611 | -81.700833 |
| 1896 | RADIO SONDA BARRANQUILLA - AUT [2904500130]    | 10.885000 | -74.779444 |
| 291  | RADIO SONDA BOGOTA - AUT [2120500127]          | 4.621667  | -74.103333 |
| 3079 | GUAJARO EMBALSE AUT [12067001]                 | 10.520556 | -75.096278 |
| 3495 | JUAN GOMEZ - AUT [29037002]                    | 10.091931 | -75.410686 |
| 3853 | ESCUELA NAVAL BARRANQUILLA - AUT [29004520]    | 11.006389 | -74.785000 |
| 4143 | AEROPUERTO ALFONSO LOPEZ - [28025502]          | 10.436167 | -73.247667 |
| 17   | Piedrancha - - AUT [51020011]                  | 1.141528  | -77.928972 |
| 1067 | AEROPUERTO EL EDEN - - AUT [26125061]          | 4.454722  | -75.766389 |
| 13   | GRANJA EL MIRA - - AUT [51025090]              | 1.550194  | -78.695583 |
| 4419 | ESTACIÓN ISOTÓPICA CARMEN DE TONCHALÁ_01       | 7.846694  | -72.566667 |
| 4439 | ESTACIÓN ISOTÓPICA CARMEN DE TONCHALÁ_01       | 7.846694  | -72.566667 |
| 4443 | ESTACIÓN ISOTÓPICA LA MACARENA_01              | 2.176167  | -73.793444 |
| 4423 | ESTACIÓN ISOTÓPICA LA MACARENA_01              | 2.176167  | -73.793444 |
| 0    | RUMICHACA - AUT [52057100]                     | 0.813786  | -77.661978 |
| 1468 | ARIZONA [21145020]                             | 3.276111  | -74.935833 |
| 1173 | SEDE IDEAM CALLE 25D KRA [21202280]            | 4.684000  | -74.129000 |
| 4213 | SAN ISIDRO BONDA - AUT [1501500054]            | 11.230522 | -74.059786 |
| 146  | PLAYON EL [35217060]                           | 5.540500  | -72.231722 |
| 153  | Pisba - Aut [35215030]                         | 5.720556  | -72.488472 |
| 145  | TOQUILLA - AUT [35195060]                      | 5.523611  | -72.790972 |
| 122  | TRINIDAD PAUTO - AUT [35237030]                | 5.414389  | -71.668361 |
| 137  | TRINIDAD - AUT [35235040]                      | 5.419028  | -71.666167 |
| 112  | MODULOS - AUT [35225030]                       | 4.910472  | -71.433056 |
| 243  | LABRANZA GRANDE AUT [35217090]                 | 5.566917  | -72.583556 |
| 4205 | ABRIAQUI - AUT [1111500036]                    | 6.636300  | -76.070733 |
| 3793 | Caracoli                                       | 10.088694 | -73.731667 |
| 4165 | CURUMANÍ - AUT [2805500075]                    | 9.238139  | -73.512917 |
| 741  | CARACOLI                                       | 10.752333 | -73.003194 |
| 4293 | SANTUARIO - AUT [2308500068]                   | 6.130000  | -75.280000 |
| 4162 | HOB0 - AUT [2901500072]                        | 9.672419  | -75.236458 |
| 4163 | SAHAGÚN - AUT [1303500073]                     | 8.942472  | -75.450833 |
| 4330 | SAHAGUN - AUT [1303500129]                     | 8.940000  | -75.450000 |

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| 3754 | PNN AMACAYACU - AUT [48015060]                   | -3.802194 | -70.661978 |
| 140  | POTRERITO [35160010]                             | 5.477583  | -72.948611 |
| 148  | EL TUNEL [35165000]                              | 5.574972  | -72.941000 |
| 150  | LLANO ALARCON [35160020]                         | 5.599722  | -72.913472 |
| 149  | HATO LAGUNA - AUT [35167010]                     | 5.584444  | -72.900083 |
| 241  | CORPOBOYACA - SANTA INES -AUT [35167000]         | 5.545000  | -72.884111 |
| 242  | CRIADERO -AUT [35167020]                         | 5.557000  | -72.880472 |
| 151  | LAS CINTAS [35160000]                            | 5.614278  | -72.867472 |
| 4316 | MARRALU - AUT [25027770]                         | 8.310000  | -75.240000 |
| 3163 | CANO BRAVO - AUT [13027040]                      | 8.235847  | -74.960439 |
| 4242 | EL PLAYON - AUT [2701500105]                     | 6.483831  | -75.345831 |
| 4244 | CAMPO HERMOSO - AUT [3702500113]                 | 7.099139  | -72.300419 |
| 4216 | CHEMESQUEMENA - AUT [2801700088]                 | 10.712111 | -73.431167 |
| 4166 | HATICO DE LOS INDIOS - AUT [2801500078]          | 10.860306 | -73.114222 |
| 233  | COLEGIO KANKAWARWA - AUT [29065140]              | 10.452000 | -73.973383 |
| 1856 | RADIO SONDA CALI - AUT [2607500128]              | 3.536667  | -76.387222 |
| 1823 | RADIO SONDA MARANDUA - AUT [3405500134]          | 5.526111  | -68.688333 |
| 4164 | LOMA VERDE - AUT [1303500074]                    | 8.508778  | -76.175417 |
| 4254 | LA ESPERANZA ANDALUCIA - AUT [2615500122]        | 5.017778  | -75.356583 |
| 3846 | PALMOR - SIERRA NEVADA - AUT [2906500077]        | 10.771750 | -74.019139 |
| 4336 | SAN BERNARDO DEL VIENTO - AUT [1303500067]       | 9.370000  | -75.950000 |
| 4156 | MANZANARES - AUT [2302500064]                    | 5.265056  | -75.143056 |
| 4231 | SAN JOSE DE PENSILVANIA - AUT [2305500055]       | 5.372639  | -75.150139 |
| 4246 | LA CUMBRE - AUT [5311500121]                     | 3.645194  | -76.564750 |
| 4243 | APONTE - CUENCA ALTA RIO PASTO - AUT [520450...] | 1.397278  | -77.030611 |
| 3892 | TORIBIO ALERTAS TORIBIO - AUT [2604500134]       | 2.952389  | -76.262083 |
| 4161 | RETIRO - AUT [2308500071]                        | 6.060275  | -75.509514 |
| 4256 | SANTIAGO - AUT [5202500132]                      | 1.814142  | -76.782833 |
| 4258 | CAUCA ALTO - AUT [2602700148]                    | 2.694361  | -76.752917 |
| 4485 | EL JARDIN CUENCA ALTA RIO RISARALDA - AUT [2...] | 5.530000  | -75.770000 |
| 3845 | PALMARITO - AUT [2804500076]                     | 10.415194 | -73.643556 |
| 4159 | SONSÓN - AUT [2618500069]                        | 5.715250  | -75.294500 |
| 4259 | LA VORAGINE - AUT [2629700151]                   | 3.346306  | -76.589333 |
| 4212 | PUERTO ESTRELLA - AUT [1508500053]               | 12.339194 | -71.345081 |
| 3852 | EL RETIRO - AUT [2703700106]                     | 7.560000  | -74.799997 |
| 4269 | JUAN JOSE - AUT [2501500120]                     | 7.730194  | -75.851581 |
| 4253 | BELLAVISTA - JESUS MARIA - AUT [2614500112]      | 5.275944  | -75.800167 |
| 4271 | REMOLINO ALERTAS - EL VOLCAN - AUT [2603500127]  | 2.542914  | -76.852061 |
| 4252 | REMOLINO - AUT [2603700157]                      | 2.510000  | -76.830000 |
| 4180 | CINERA - VILLA OLGA[16025040] - AUT [ ]          | 8.167281  | -72.478781 |
| 322  | LAS IGLESIAS - AUT [5205500123]                  | 1.054806  | -77.270250 |
| 3836 | PUENTE LOS DOLORES - AUT                         | 1.199806  | -77.265694 |
| 4211 | PUENTE LOS DOLORES - AUT [5204700093]            | 1.199806  | -77.265694 |
| 4220 | GRAMALOTE - AUT [1602500044]                     | 7.913167  | -72.803028 |
| 4245 | CHINACOTA - AUT [3701500114]                     | 7.401217  | -72.550275 |
| 4267 | EL PORTILLO - AUT [3701500117]                   | 7.056497  | -72.790292 |
| 4250 | SALENTO - AUT [2612500130]                       | 4.633475  | -75.568858 |
| 4215 | CRQ ARMENIA - AUT [2612500038]                   | 4.556333  | -75.669556 |
| 4270 | PIJAO - AUT [2612500124]                         | 4.331361  | -75.684139 |
| 4280 | GUAYABAL - AUT [2633700150]                      | 4.405279  | -76.100753 |
| 280  | RITACUBA BLANCO EMMA 2 - AUT [24035440]          | 6.493583  | -72.311611 |
| 4272 | RESERVA NATURAL LA PLANADA - AUT [5102500128]    | 1.157833  | -77.976500 |
| 4266 | RIO LA COLORADA - AUT [2314700159]               | 6.850000  | -73.770000 |
| 262  | TAMARA - AUT [35235050]                          | 5.818583  | -72.166778 |
| 310  | SENA - EL BAGRE [27035050]                       | 7.584667  | -74.800694 |

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|------|--------------------------------|--------------|-----------|------------|
| 4150 | VALENCIA                       | [4801700102] | -3.802500 | -70.322889 |
| 4149 | PUERTO TRIUNFO                 | [4801700101] | -3.955667 | -70.166583 |
| 4169 | SIACHOQUE - AUT                | [2403500082] | 5.506097  | -73.251053 |
| 4255 | GUACHAL PALMASECA - AUT        | [2633500119] | 3.559542  | -76.456897 |
| 4226 | MALAGA 2 - AUT                 | [2403500049] | 6.704631  | -72.736636 |
| 4277 | RIO FRIO - AUT                 | [2611700158] | 4.152194  | -76.290081 |
| 3894 | TEATINOS - AUT                 | [3507500133] | 5.422822  | -73.375778 |
| 4167 | PANELAS - AUT                  | [2401500080] | 5.634381  | -73.386469 |
| 3847 | PESCA - AUT                    | [2403500083] | 5.523033  | -73.076847 |
| 4157 | GRANJA PIEDECUESTA - AUT       | [2319500065] | 6.993333  | -73.067778 |
| 4217 | DUITAMA - AUT                  | [2403500041] | 5.787550  | -73.081783 |
| 4168 | SOTAQUIRÁ - AUT                | [2403500081] | 5.749661  | -73.234922 |
| 3848 | SUSA - AUT                     | [2403500085] | 6.187794  | -72.835603 |
| 4228 | PUENTE GUILLERMO - AUT         | [2401500052] | 5.796417  | -73.726667 |
| 4203 | LOS CAIMANES                   | [2502500007] | 8.115911  | -75.413400 |
| 3842 | PIEDRECUESTANA                 | [2319700100] | 6.993072  | -73.035469 |
| 3844 | SABANA DE TORRES - AUT         | [2319500066] | 7.389028  | -73.488889 |
| 4233 | HACIENDA LA GRACIOSA - AUT     | [2636700098] | 4.239800  | -76.049247 |
| 4251 | SANTA LUCIA - AUT              | [2610500131] | 3.929056  | -75.940639 |
| 4249 | POTREROS - AUT                 | [2613500126] | 4.885681  | -75.558081 |
| 4206 | BRASIL - AUT                   | [2302500037] | 5.139917  | -75.316639 |
| 4248 | POLIDEPORTIVO CACHIRA - AUT    | [2319500125] | 7.649639  | -73.178361 |
| 4170 | MONGUA - AUT                   | [2403500084] | 5.758019  | -72.794850 |
| 4260 | PALO GRANDE - AUT              | [1605700152] | 8.290761  | -73.304500 |
| 4210 | PLANADAS - AUT                 | [2202500051] | 3.205800  | -75.654200 |
| 4218 | EL SILENCIO - AUT              | [2121500042] | 4.600222  | -75.336000 |
| 4223 | IBAGUE - AUT                   | [2121500048] | 4.418808  | -75.205850 |
| 4207 | GRANJA GUAYATA - AUT           | [3507500046] | 4.976083  | -73.484028 |
| 4214 | SUCRE - AUT                    | [4403700097] | 1.784472  | -75.682528 |
| 4229 | RECIO 1 - AUT                  | [2125700094] | 4.873833  | -75.042583 |
| 3111 | CORINTO - AUT                  | [2604500039] | 3.180000  | -76.250000 |
| 4225 | LAS MINAS - AUT                | [2401700091] | 6.769889  | -73.224222 |
| 3896 | ANGOSTURA - AUT                | [2702500107] | 6.900556  | -75.326019 |
| 4151 | LEJANÍAS - AUT                 | [3206500058] | 3.518203  | -74.006300 |
| 805  | ANGOSTURAS - AUT               | [2319700105] | 7.340000  | -73.330000 |
| 4265 | ARBOLEDAS - AUT                | [1602500110] | 7.645111  | -72.799169 |
| 181  | GRANADA SENA - AUT             | [3206500045] | 3.516333  | -73.739733 |
| 4234 | PUENTE COHETANDO - AUT         | [2105700099] | 2.579306  | -75.987389 |
| 4236 | UNIVERSIDAD DEL PACIFICO - AUT | [5311500056] | 3.848308  | -76.987017 |
| 4153 | BAJO BAUDO - AUT               | [55015020]   | 4.958061  | -77.362264 |
| 305  | TADO - AUT                     | [54015020]   | 5.270111  | -76.551836 |
| 4178 | RIO IRO - AUT                  | [54027050]   | 5.116622  | -76.665581 |
| 4172 | JURADO - AUT                   | [56015040]   | 7.104083  | -77.764111 |
| 4173 | UNION PANAMERICANA - AUT       | [11035030]   | 5.284828  | -76.627822 |
| 286  | BAGADO                         | [11017020]   | 5.412000  | -76.417889 |
| 4177 | ATRATO - AUT                   | [11175000]   | 5.373389  | -76.604500 |
| 1691 | SIPI - AUT                     | [54037050]   | 4.690000  | -76.740000 |
| 4179 | LITORAL SAN JUAN - AUT         | [54057020]   | 4.245400  | -76.231944 |
| 4158 | MOLINOS - AUT                  | [2601700104] | 2.439472  | -76.574281 |
| 4263 | SALGAR - AUT                   | [2619700161] | 5.880972  | -75.908250 |
| 4160 | ITUANGO - AUT                  | [2621500070] | 7.175364  | -75.766358 |
| 4367 | MEDINA - AUT                   | [3505500061] | 4.510000  | -73.349997 |
| 4232 | SAN JUAN DE LOS CHORROS - AUT  | [2319700096] | 7.692806  | -73.774056 |
| 4204 | MARIQUITA                      | [2125500032] | 5.171247  | -74.891367 |
| 4200 | BRUNO II                       | [1506700137] | 11.160708 | -72.532711 |

|      |   |              |           |            |
|------|---|--------------|-----------|------------|
| 4192 | BRUNO III   | [1506700138] | 11.161056 | -72.540547 |
| 4191 | BRUNO I   | [1506700136] | 11.156267 | -72.526381 |
| 4279 | SAN JOAQUIN - AUT                                 | [2120700162] | 4.638250  | -74.520028 |
| 4261 | PUENTE ZACARIAS - AUT                             | [5311700154] | 3.814528  | -77.005417 |
| 3804 | PUERTO CALDAS - AUT                               | [2613700156] | 4.814114  | -75.917961 |
| 4221 | GUAYURIBA - AUT                                   | [3502700090] | 3.958169  | -73.295536 |
| 4171 | PUENTE CAMPANA - AUT                              | [3508700103] | 4.844167  | -73.223031 |
| 4227 | MANI - AUT  | [3519700092] | 4.816419  | -72.308650 |
| 4224 | CUCUNUBA AUTOMATICA                               | [24010140]   | 5.219558  | -73.784542 |
| 4209 | PARAMO ALTO - AUT                                 | [2120500050] | 5.158861  | -74.043444 |
| 4235 | SAN SALVADOR - AUT                                | [3602700101] | 6.227681  | -71.618483 |
| 4152 | VISTA HERMOSA - AUT                               | [3206500059] | 3.099722  | -73.733611 |
| 4208 | GUALÍ ALERTAS - AUT                               | [2301700089] | 5.134278  | -75.062056 |
| 3893 | ALTO DEL TRIGO - AUT                              | [2306500106] | 5.001903  | -74.537586 |
| 4202 | MORICHAL  | [3502500006] | 3.932547  | -73.242964 |
| 1882 | RADIO SONDA BUCARAMANGA - AUT                     | [2319500129] | 7.129444  | -73.184167 |
| 4174 | UNIVERSIDAD PEDAGÓGICA Y TECNOLÓGICA DE COLOMB... |              | 5.553611  | -73.355278 |
| 4230 | REMOLINO - MAG - AUT                              | [2904700095] | 10.776000 | -74.743686 |
| 4219 | FLORIDABLANCA - AUT                               | [2319500043] | 7.056800  | -73.109400 |
| 4274 | EL JUNCAL - AUT                                   | [2405700149] | 6.793778  | -73.198639 |
| 4176 | EL CALVARIO - AUT                                 | [3503500062] | 4.349997  | -73.710000 |
| 4222 | HERRERA - AUT                                     | [2201500047] | 3.284139  | -75.802450 |
| 4394 | LLORO   | [11035010]   | 5.510000  | -76.580000 |
| 4308 | LLORO - AUT                                       | [1117500060] | 5.510000  | -76.580000 |
| 4238 | SANTA ISABEL                                      | [1506700108] | 11.131789 | -72.478122 |
| 4175 | BRUNO SECO  |              | 11.134536 | -72.488189 |
| 4239 | SANTA ISABEL                                      | [1506000111] | 11.131700 | -72.478217 |
| 4240 | POZO TIGRE  | [1506700110] | 11.134100 | -72.499831 |
| 4241 | LA BOTA   | [1506700111] | 11.183933 | -72.543953 |
| 4281 | EMBALSE DEL MUERTO                                | [1506700135] | 11.106756 | -72.691922 |
| 4197 | CRUCE I   | [1506700134] | 11.107208 | -72.573267 |
| 4201 | TAJO ANEX   | [1506700133] | 11.060525 | -72.684869 |
| 4237 | LA VEGA   | [1506700107] | 11.193328 | -72.532567 |
| 4196 | BRUNO VII   | [1506700142] | 11.175253 | -72.559117 |
| 4194 | BRUNO V   | [1506700140] | 11.172953 | -72.558731 |
| 4193 | BRUNO IV  | [1506700139] | 11.171314 | -72.556464 |
| 4195 | BRUNO VI  | [1506700141] | 11.174219 | -72.560178 |
| 4435 | ESTACIÓN ISOTÓPICA BOGOTÁ_02                      |              | 4.621664  | -74.103436 |
| 4416 | ESTACIÓN ISOTÓPICA BOGOTÁ_02                      |              | 4.621664  | -74.103436 |
| 4257 | VETAS - AUT                                       | [2319500137] | 7.310200  | -72.876200 |
| 4155 | MUTISCUA - AUT                                    | [1602500063] | 7.299089  | -72.745761 |
| 4268 | GUACHACA - AUT                                    | [1509500118] | 11.210150 | -73.844450 |
| 4278 | RIO MANZANARES ALERTAS - AUT                      | [1501700160] | 11.187081 | -74.096906 |
| 761  | SANTA ROSA - AUT                                  | [2312700145] | 6.290000  | -74.090000 |
| 278  | TUA BALNEARIO - AUT [ ]                           |              | 4.885650  | -72.900889 |
| 4273 | UNIVERSIDAD UNAD CARTAGENA - AUT                  | [1206500136] | 10.400311 | -75.513281 |
| 4276 | PUERTO BOYACA - AUT                               | [2311700155] | 5.980258  | -74.594969 |
| 288  | GUADUALITO - AUT                                  | [3518500127] | 4.987081  | -72.865100 |
| 4460 | ENCUENTROS  |              | 5.231306  | -75.815389 |
| 3270 | ARAUCA TERMINAL - AUT                             | [3706500109] | 7.063781  | -70.733081 |
| 4262 | SAN MIGUEL  |              | 4.242711  | -74.742869 |
| 4247 | BASE AEREA MELGAR                                 |              | 4.210000  | -74.640000 |
| 4283 | ALFOMBRALES                                       | [2615500126] | 4.860000  | -75.340000 |
| 1909 | RADIO SONDA PEREIRA - AUT                         | [2607500131] | 3.536667  | -76.387222 |
| 4275 | PLANTA ECOPETROL - AUT                            | [2502700153] | 9.175100  | -74.730089 |

|      |   |              |           |            |
|------|---|--------------|-----------|------------|
| 4264 | UNIVERSIDAD DE LA SABANA - AUT              | [2120700146] | 4.854750  | -74.040000 |
| 3895 | UNIVERSIDAD DE LA SABANA - AUT              | [2120500135] | 4.854750  | -74.032669 |
| 4286 | RECIO                                       | [2125500127] | 4.841389  | -75.303056 |
| 4455 | URÉ   |              | 7.913333  | -75.566167 |
| 4284 | PLAYÓN                                      | [3602500124] | 6.322842  | -72.278586 |
| 4285 | MONTEBELLO                                  | [3602500125] | 6.298544  | -72.246078 |
| 4282 | CALICHAL                                    | [3602500123] | 6.336056  | -72.305983 |
| 4304 | Radar Met SANJOSE                           |              | 2.533511  | -72.628261 |
| 4305 | Radar Met BARRANCA                          |              | 6.932711  | -73.762900 |
| 304  | MARACAIBO                                   | [4403000112] | 1.610528  | -75.486167 |
| 3572 | EL GUAYABO 2                                | [2111700151] | 2.877381  | -75.147583 |
| 2874 | GUAYABETAL RIO NEGRO 2 - AUT                | [3502700147] | 4.216050  | -73.815681 |
| 2868 | GUAYABETAL RIO NEGRO 1 - AUT                | [3502700146] | 4.231864  | -73.818764 |
| 3777 | PUENTE CASIANO - AUT                        | [2403700148] | 6.570400  | -72.470300 |
| 3573 | PUENTE RICAURTE 2                           | [2105700152] | 2.455972  | -75.914528 |
| 3575 | PUENTE LA RAMADA - AUT                      | [2403700149] | 6.560700  | -72.501200 |
| 3568 | CHISCAS - AUT                               | [ ]          | 6.555083  | -72.502250 |
| 3578 | LAS CAÑAS - AUT                             | [2403000113] | 6.605800  | -72.483600 |
| 3566 | LAS MERCEDES - AUT                          | [2403000114] | 6.577400  | -72.479000 |
| 3571 | GUAYABETAL POLLO OLIMPICO - AUT             | [3502500135] | 4.229669  | -73.812625 |
| 4430 | ESTACIÓN ISOTÓPICA QUIBDÓ_01                |              | 5.690556  | -76.643778 |
| 4450 | ESTACIÓN ISOTÓPICA QUIBDÓ_01                |              | 5.690556  | -76.643778 |
| 4456 | URÉ   |              | 7.871139  | -75.509111 |
| 4433 | ESTACIÓN ISOTÓPICA BUENAVENTURA_01          |              | 3.820111  | -76.992389 |
| 4449 | ESTACIÓN ISOTÓPICA BUENAVENTURA_01          |              | 3.820000  | -76.990000 |
| 4431 | ESTACIÓN ISOTÓPICA BAHIA SOLANO_01          |              | 6.223333  | -77.404444 |
| 4451 | ESTACIÓN ISOTÓPICA BAHIA SOLANO_01          |              | 6.223333  | -77.404444 |
| 4446 | ESTACIÓN ISOTÓPICA SAN ANDRES_02            |              | 12.542183 | -81.730969 |
| 4427 | ESTACIÓN ISOTÓPICA SAN ANDRES_02            |              | 12.542183 | -81.730969 |
| 3585 | PUENTE RICAURTE 2                           | [2105700152] | 2.455972  | -75.914528 |
| 4306 | Radar Met MUNCHIQUE                         |              | 2.517700  | -76.955900 |
| 283  | BOYA CLIMATOLÓGICA LAGO GRANDE LAGO TOTA    |              | 5.523420  | -72.947311 |
| 4472 | PTE SALAZAR                                 | [2105700205] | 2.650000  | -75.549997 |
| 1102 | PTE SALAZAR                                 | [ ]          | 2.647778  | -75.547500 |
| 4470 | Boya Climatologica - Lago Chico - Lago Tota |              | 5.551775  | -72.893878 |
| 4477 | MIRADOR OREGANAL                            |              | 10.982900 | -72.735081 |
| 4475 | LA PUENTE                                   |              | 11.137842 | -72.544306 |
| 3813 | SANTAGUEDA                                  |              | 5.080369  | -75.666306 |
| 196  | TEATINO - AUT                               | [35071001]   | 5.421556  | -73.540194 |
| 3774 | PM LA LAGUNA                                |              | 6.447167  | -72.497694 |
| 3794 | PM LA LAGUNA                                |              | 6.447167  | -72.497694 |

Process finished with exit code 0