

ANEJO Nº 4.

CARTOGRAFIA Y TOPOGRAFIA

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1. INTRODUCCIÓN

El objeto del presente anejo es detallar la metodología utilizada en la realización de los trabajos de cartografía y topografía para la redacción del “Proyecto Constructivo de Cubrición del tramo Eibar-Azitain de la línea férrea Bilbao – Donostia”

El trabajo realizado a consistido en la realización de un plano taquimétrico de detalle a escala 1:100, con su correspondiente modelo 3d del terreno, de unas 4 hectáreas aproximadamente, definidas previamente sobre cartografía y la implantación de 13 bases de replanteo, todo ello referido a las bases empleadas por la UTE TXARAKOA-AZITAIN, que realizo el desdoblamiento del Tramo Txarako-Azitain del Ferrocarril Bilbao-Donostia. .

Los trabajos topográficos que se detallan en el apartado 3 han sido realizados por la empresa Topolan en mayo de 2013.

2. CARTOGRAFIAS EMPLEADAS

Se ha usado la cartografía entregada por Euskal Trenbide Sarea formada por restitución de un vuelo realizado dentro del ámbito del proyecto, completado con cartografía municipal a escala 1/1000, al cual se ha realizado un modelo digital del terreno con altimetría. Además para cubrir una pequeña zona que no cubierta ni por el vuelo ni por la cartografía añadida se emplea una cartografía a escala 1/5000 de la Diputación Foral de Gipuzkoa.

3. TOPOGRAFIA

3.1. DATOS DE PARTIDA

Se ha partido de las bases de replanteo usadas en por la UTE TXARAKOA-AZITAIN, que realizo el desdoblamiento del Tramo Txarako-Azitain del Ferrocarril Bilbao-Donostia, y a partir de ahí mediante observación por sistema GPS, se han definido 13 bases de replanteo.

En el apéndice 1 se incluyen las fichas de cada una de estas bases.

3.2. LISTADO DE BASES

| BASE | Coord. X | Coord. Y | Coord. Z |
|------|-------------|---------------|----------|
| V1 | 543.792,950 | 4.782.041,800 | 119.513 |
| V2 | 543.818,249 | 4.782.057,622 | 119.016 |
| V3 | 543.881,456 | 4.782.093,497 | 117.621 |
| V4 | 543.891,591 | 4.782.107,766 | 117.416 |
| V5 | 543.947,913 | 4.782.138,904 | 115.655 |
| V8 | 544.287,314 | 4.782.282,544 | 107.624 |

| BASE | Coord. X | Coord. Y | Coord. Z |
|-------------|-----------------|-----------------|-----------------|
| V10 | 544.092,441 | 4.782.209,105 | 111.910 |
| V11 | 544.169,215 | 4.782.244,738 | 109.883 |
| V12 | 544.216,550 | 4.782.262,528 | 109.194 |
| V13 | 544.313,103 | 4.782.288,115 | 107.245 |
| V14 | 544.424,115 | 4.782.312,430 | 104.500 |
| V15 | 544.341,839 | 4.782.299,086 | 107.941 |
| V16 | 544.443,940 | 4.782.321,207 | 104.527 |

3.3. LEVANTAMIENTOS TAQUIMÉTRICOS

3.3.1. Toma de datos

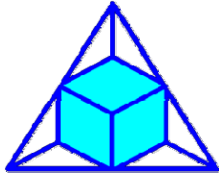
Una vez obtenidas las bases de replanteo se ha realizada un levantamiento a escala 1:100 del tramo de plataforma y su entorno incluido en la cubrición.

En el apéndice 2 se incluye el plano con el área levantada, mientras que el apéndice 3 es un listado de todos los puntos obtenidos en dicho levantamiento.

3.3.2. Instrumentos o aparatos empleados

La relación de instrumentos empleados se incluye en el apéndice 4, así como los correspondientes certificados de calibración.

APÉNDICE 1: RESEÑAS DE LAS BASES DE REPLANTEO



INGENIERIA TECNICA
TOPOLAN S.L.P
C/NOVIA SALCEDO Nº9 DTO 1
48012 BILBAO

RESEÑAS DE LAS BASES

**EIBAR
(ETS)**

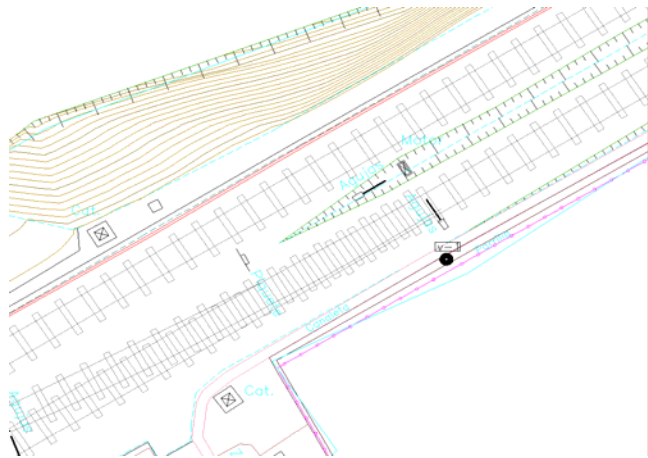
MAYO 2013

| NOMBRE DE LA BASE | | COORDENADAS UTM ED-50 | |
|-------------------|--|-----------------------|---------------|
| V1 | | X= | 543.792,950 |
| | | Y= | 4.782.041,800 |
| | | Z= | 119,513 |

FOTOGRAFIA DE DETALLE



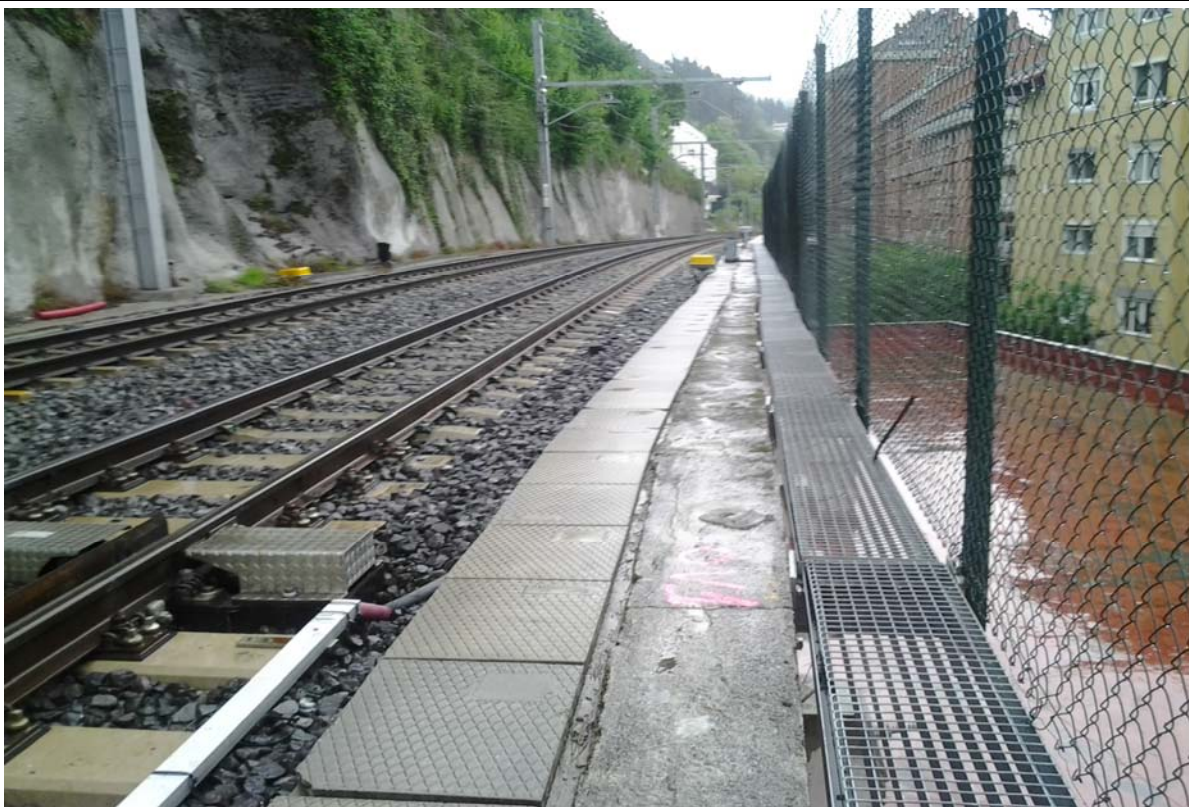
CROQUIS

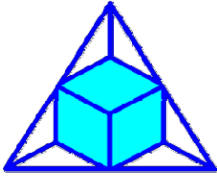


DESCRIPCION LITERAL

TIPO DE SEÑAL: Clavo Spit.

SITUACION: En canaleta , junto a parrilla PK 48/98.





INGENIERIA TECNICA
TOPOLAN S.L.P
C/NOVIA SALCEDO Nº9 DTO 1
48012 BILBAO

ESEÑAS DE LAS BASES

**EIBAR
(ETS)**

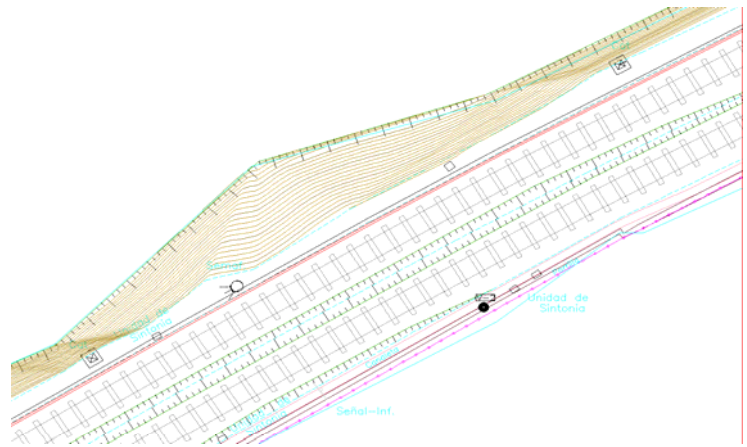
MAYO 2013

| | | | |
|--------------------------|----|------------------------------|---------------|
| NOMBRE DE LA BASE | V2 | COORDENADAS UTM ED-50 | |
| | | X= | 543.818,249 |
| | | Y= | 4.782.057,622 |
| | | Z= | 119,016 |

FOTOGRAFIA DE DETALLE

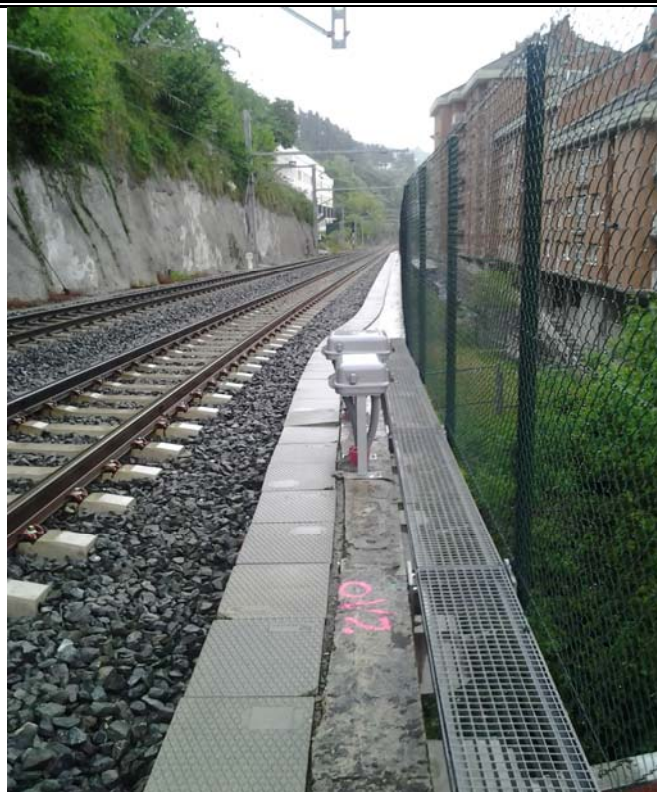


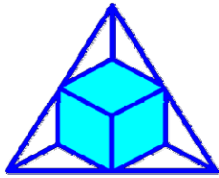
CROQUIS



DESCRIPCION LITERAL

TIPO DE SEÑAL: Clavo Spit.
SITUACION: En canaleta en PK 49/05.





INGENIERIA TECNICA
TOPOLAN S.L.P
C/NOVIA SALCEDO Nº9 DTO 1
48012 BILBAO

ESEÑAS DE LAS BASES

**EIBAR
(ETS)**

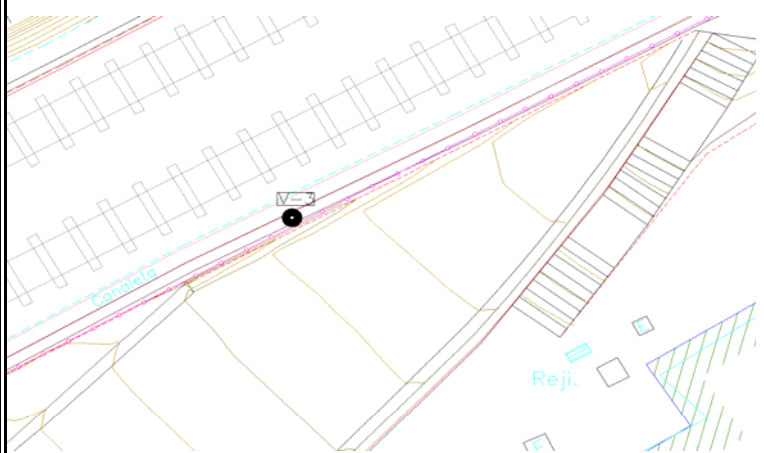
MAYO 2013

| NOMBRE DE LA BASE | | COORDENADAS UTM ED-50 | |
|-------------------|--|-----------------------|---------------|
| V3 | | X= | 543.881,456 |
| | | Y= | 4.782.093,497 |
| | | Z= | 117,621 |

FOTOGRAFIA DE DETALLE



CROQUIS

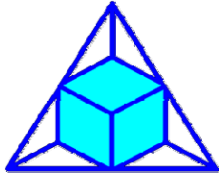


DESCRIPCION LITERAL

TIPO DE SEÑAL: Clavo Spit.

SITUACION: En canaleta, cerca de valla en PK 49/09.





INGENIERIA TECNICA
TOPOLAN S.L.P
C/NOVIA SALCEDO Nº9 DTO 1
48012 BILBAO

ESEÑAS DE LAS BASES

**EIBAR
(ETS)**

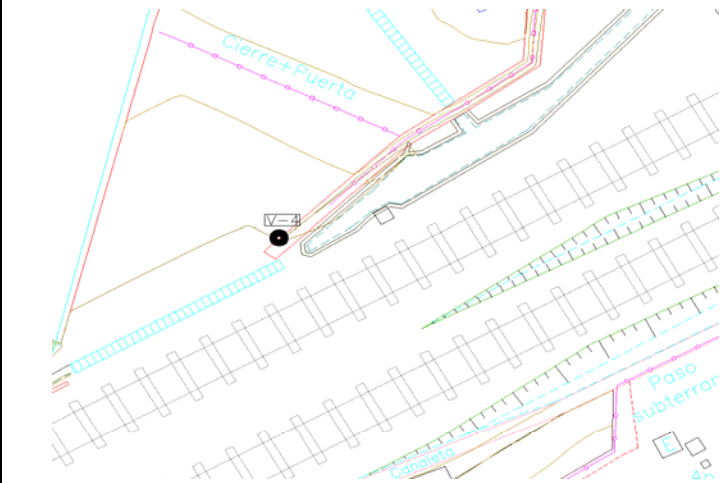
MAYO 2013

| | | COORDENADAS UTM ED-50 | |
|-------------------|----|-----------------------|---------------|
| NOMBRE DE LA BASE | V4 | X= | 543.891,591 |
| | | Y= | 4.782.107,766 |
| | | Z= | 117,416 |

FOTOGRAFIA DE DETALLE



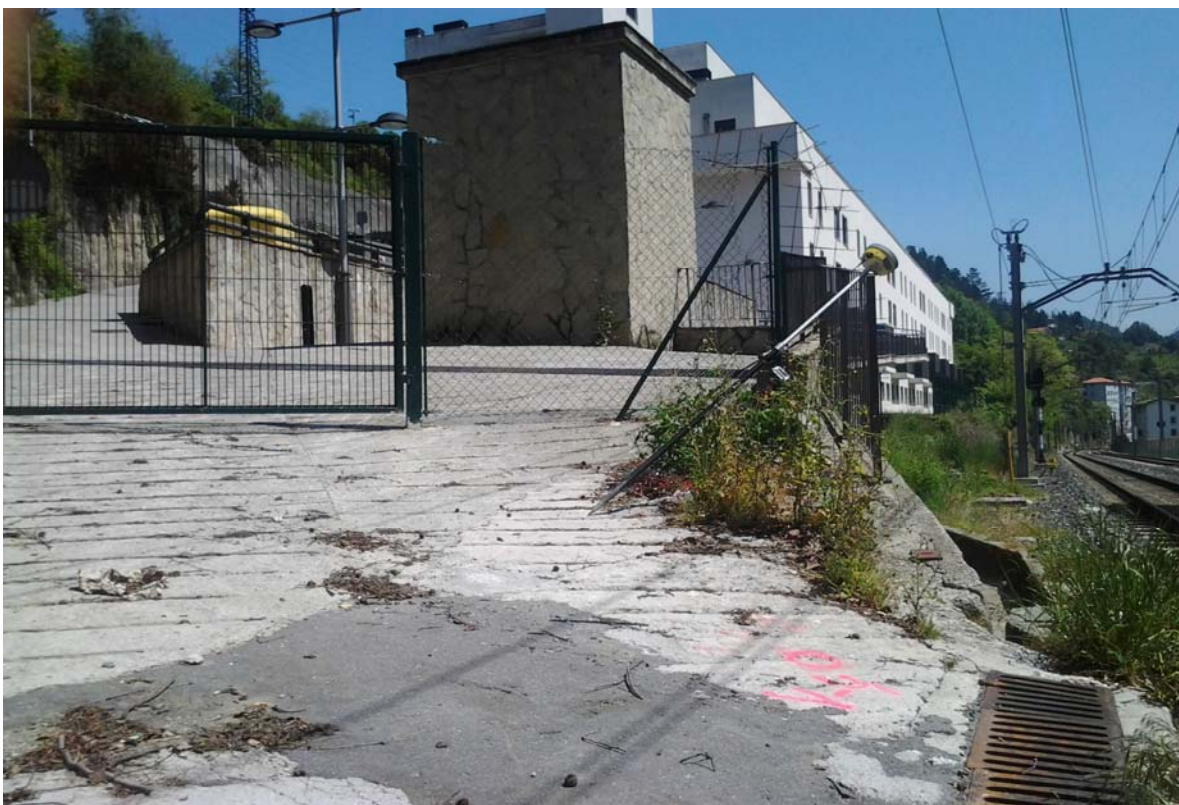
CROQUIS

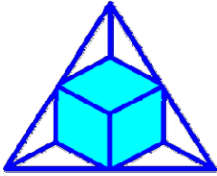


DESCRIPCION LITERAL

TIPO DE SEÑAL: Clavo Spit.

SITUACION: En rampa de hormigon PK 49/10.





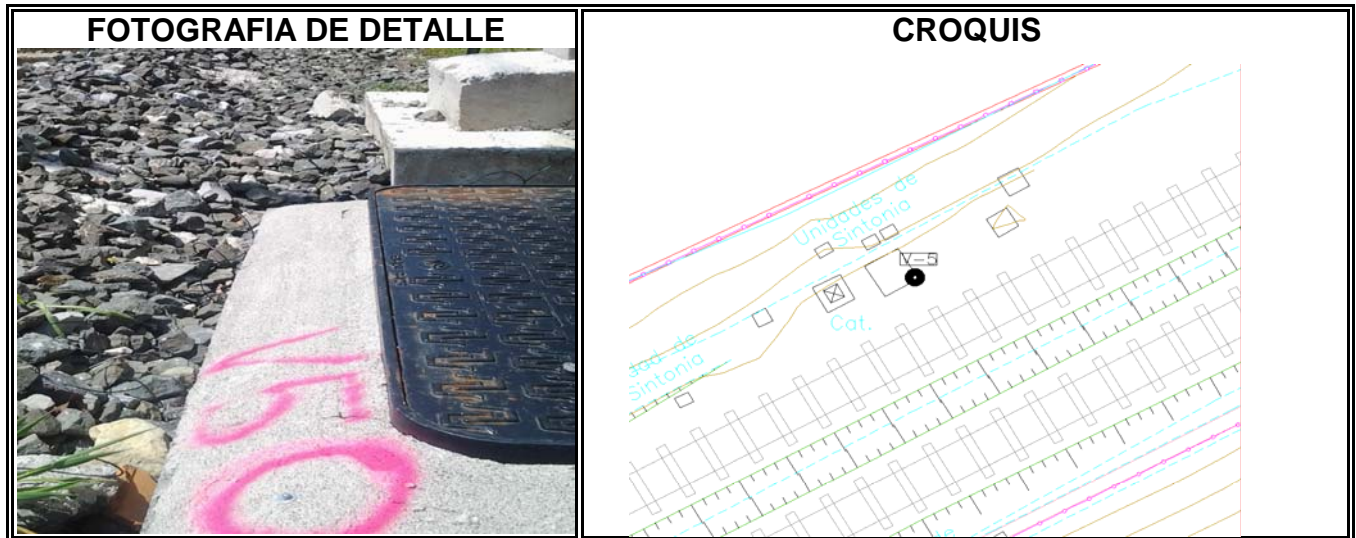
INGENIERIA TECNICA
TOPOLAN S.L.P
C/NOVIA SALCEDO Nº9 DTO 1
48012 BILBAO

ESEÑAS DE LAS BASES

**EIBAR
(ETS)**

MAYO 2013

| NOMBRE DE LA BASE | | COORDENADAS UTM ED-50 | |
|-------------------|--|-----------------------|---------------|
| V5 | | X= | 543.947,913 |
| | | Y= | 4.782.138,904 |
| | | Z= | 115,655 |

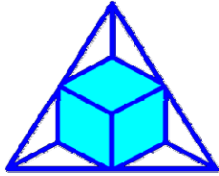


DESCRIPCION LITERAL

TIPO DE SEÑAL: Clavo Spit.

SITUACION: En arqueta cerca del PK 49/18.






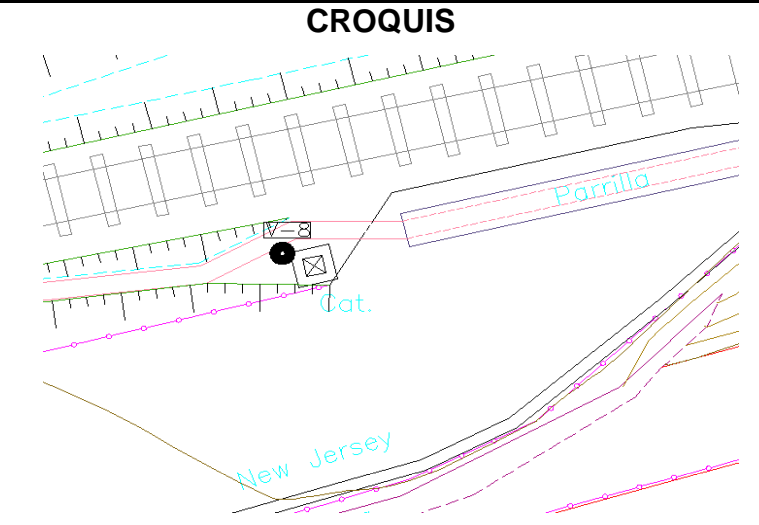
INGENIERIA TECNICA
TOPOLAN S.L.P
C/NOVIA SALCEDO Nº9 DTO 1
48012 BILBAO

ESEÑAS DE LAS BASES

**EIBAR
(ETS)**

MAYO 2013

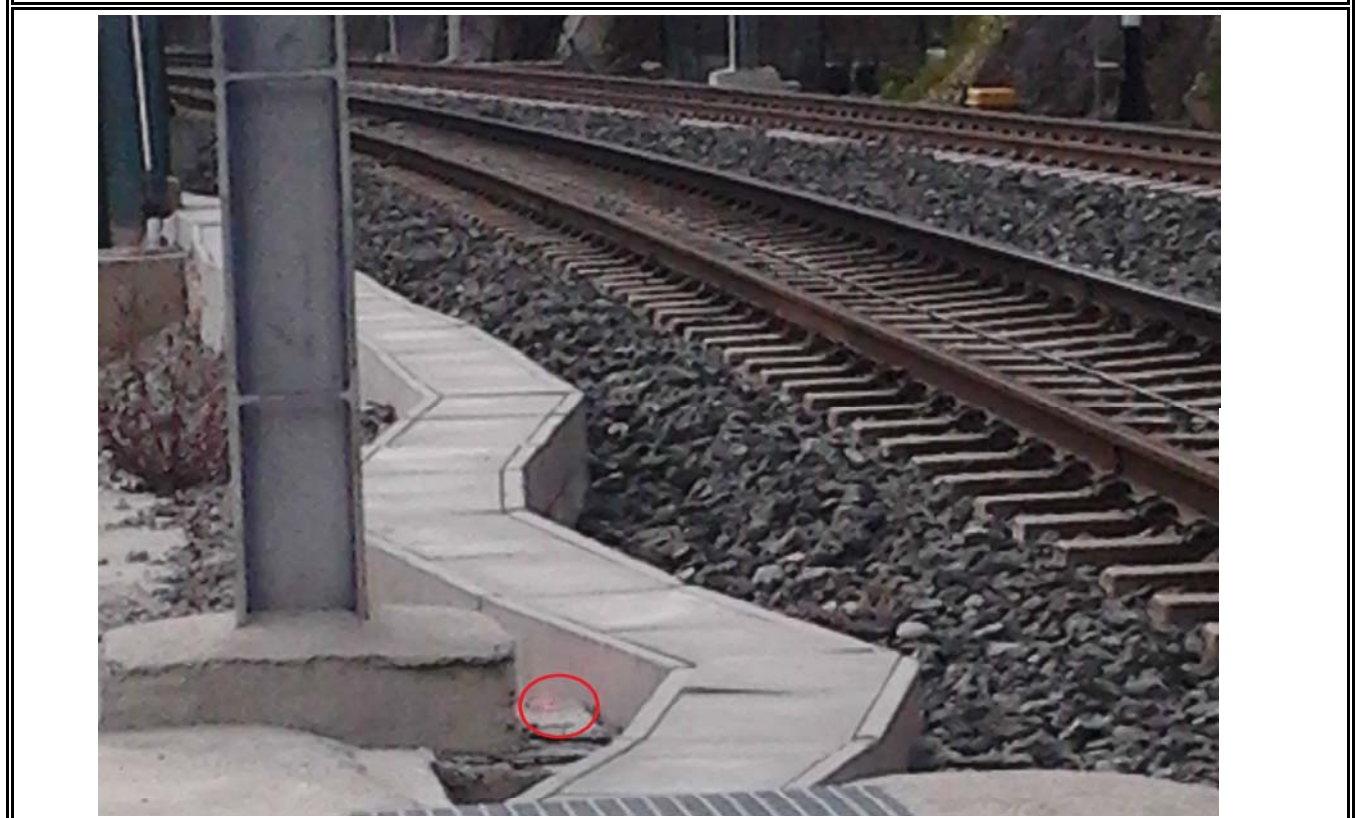
| | | COORDENADAS UTM ED-50 | |
|--------------------------|----|-----------------------|---------------|
| NOMBRE DE LA BASE | V8 | X= | 544.287,314 |
| | | Y= | 4.782.282,544 |
| | | Z= | 107,624 |

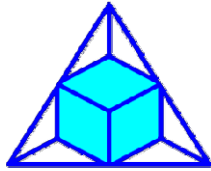
| FOTOGRAFIA DE DETALLE | CROQUIS |
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|  |  |

DESCRIPCION LITERAL

TIPO DE SEÑAL: Clavo Spit.

SITUACION: Cerca de una canaleta en PK 49/57.





RESEÑAS DE LAS BASES

**EIBAR
(ETS)**

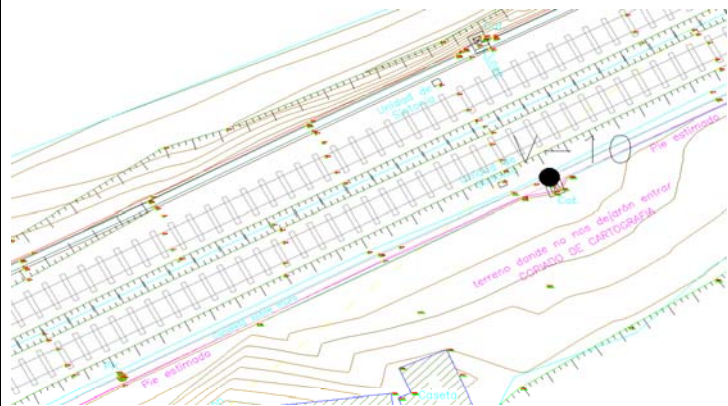
MAYO 2013

| NOMBRE DE LA BASE | | COORDENADAS UTM ED50 | |
|-------------------|--|----------------------|---------------|
| V10 | | X= | 544.092,441 |
| | | Y= | 4.782.209,105 |
| | | Z= | 111,910 |

FOTOGRAFIA DE DETALLE



CROQUIS



DESCRIPCION LITERAL

TIPO DE SEÑAL: Clavo spit

SITUACION: Eibar. Clavo situado en la canaleta, en el PK 48.





RESEÑAS DE LAS BASES

**EIBAR
(ETS)**

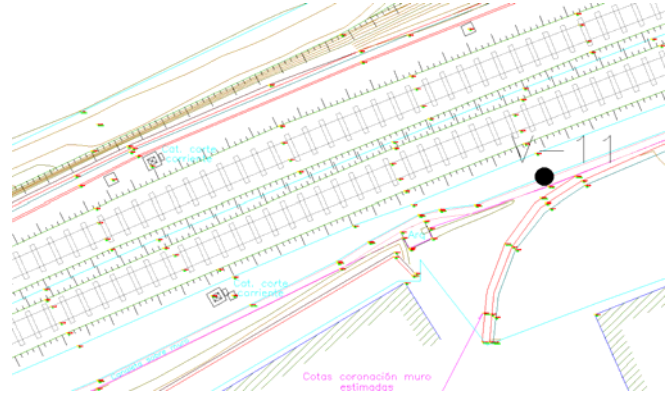
MAYO 2013

| | | COORDENADAS UTM ED50 | |
|--------------------------|-----|-----------------------------|---------------|
| NOMBRE DE LA BASE | V11 | X= | 544.169,215 |
| | | Y= | 4.782.244,738 |
| | | Z= | 109,883 |

FOTOGRAFIA DE DETALLE



CROQUIS

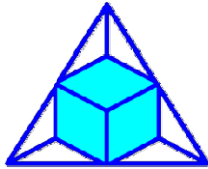


DESCRIPCION LITERAL

TIPO DE SEÑAL: Clavo spit.

SITUACION: Eibar. Clavo situado junto a la canaleta en el PK 48,1





INGENIERIA TECNICA
TOPOLAN S.L.P
C/NOVIA SALCEDO Nº9 DTO 1
48012 BILBAO

RESEÑAS DE LAS BASES

**EIBAR
(ETS)**

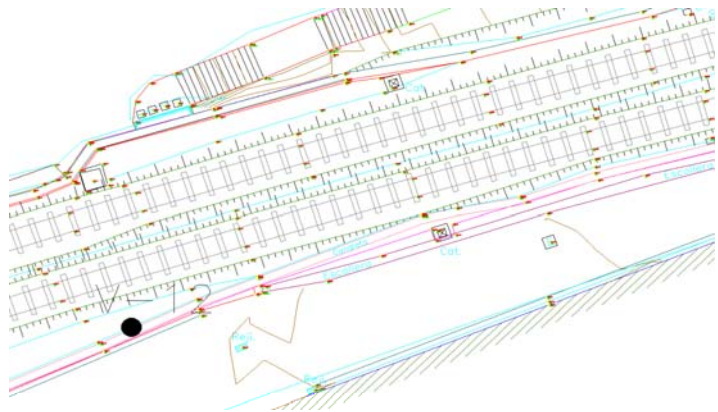
MAYO 2013

| NOMBRE DE LA BASE | | COORDENADAS UTM ED50 | |
|-------------------|--|----------------------|---------------|
| V12 | | X= | 544.216,550 |
| | | Y= | 4.782.262,528 |
| | | Z= | 109,194 |

FOTOGRAFIA DE DETALLE



CROQUIS

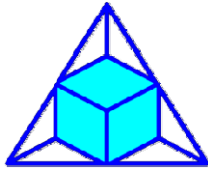


DESCRIPCION LITERAL

TIPO DE SEÑAL: Clavo spit,

SITUACION: Eibar. Clavo situado junto a la canaleta en el PK 48,6





INGENIERIA TECNICA
TOPOLAN S.L.P
C/NOVIA SALCEDO Nº9 DTO 1
48012 BILBAO

RESEÑAS DE LAS BASES

**EIBAR
(ETS)**

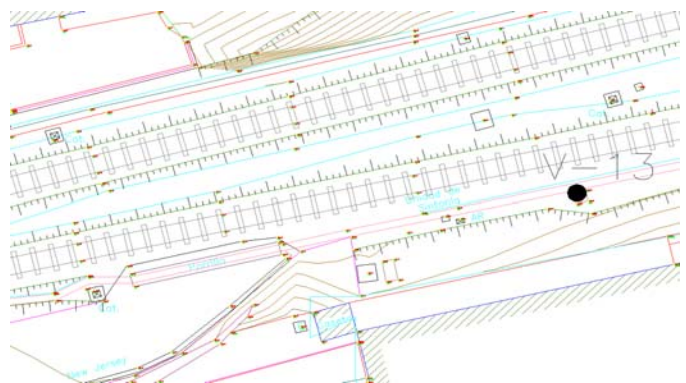
MAYO 2013

| NOMBRE DE LA BASE | | COORDENADAS UTM ED50 | |
|-------------------|--|----------------------|---------------|
| V13 | | X= | 544.313,103 |
| | | Y= | 4.782.288,115 |
| | | Z= | 107,245 |

FOTOGRAFIA DE DETALLE



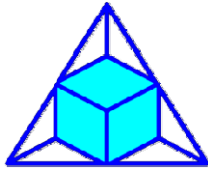
CROQUIS



DESCRIPCION LITERAL

TIPO DE SEÑAL: Calvo spit
SITUACION: Eibar. Junto al P.K. 49,6





INGENIERIA TECNICA
TOPOLAN S.L.P
C/NOVIA SALCEDO Nº9 DTO 1
48012 BILBAO

RESEÑAS DE LAS BASES

**EIBAR
(ETS)**

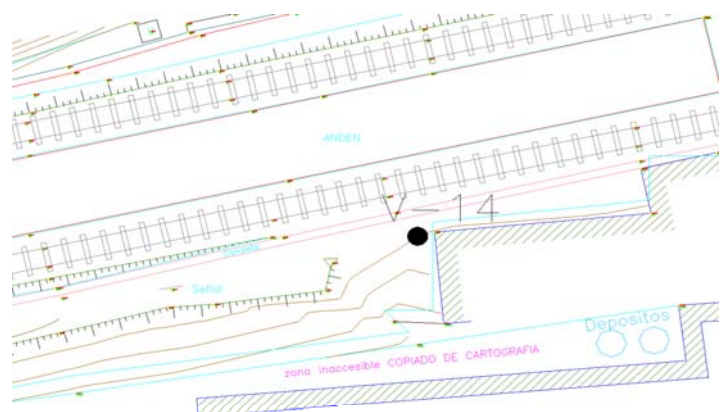
MAYO 2013

| NOMBRE DE LA BASE | | COORDENADAS UTM ED50 | |
|-------------------|--|----------------------|---------------|
| V14 | | X= | 544.424,115 |
| | | Y= | 4.782.312,430 |
| | | Z= | 104,500 |

FOTOGRAFIA DE DETALLE



CROQUIS



DESCRIPCION LITERAL

TIPO DE SEÑAL: Clavo spit

SITUACION: Eibar. Clavo situado en el borde de una zapata junto a los muros de la estación de Azitain






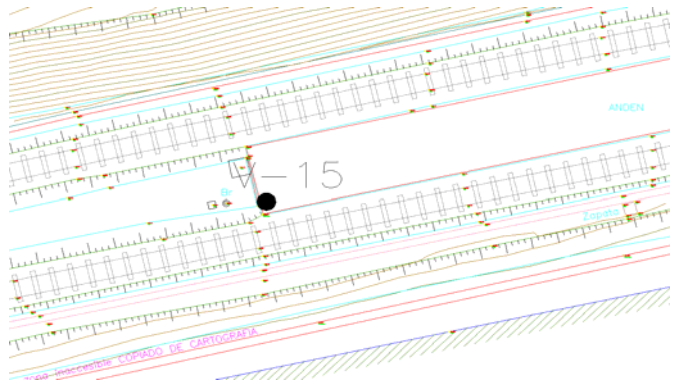
INGENIERIA TECNICA
TOPOLAN S.L.P
C/NOVIA SALCEDO Nº9 DTO 1
48012 BILBAO

RESEÑAS DE LAS BASES

**EIBAR
(ETS)**

MAYO 2013

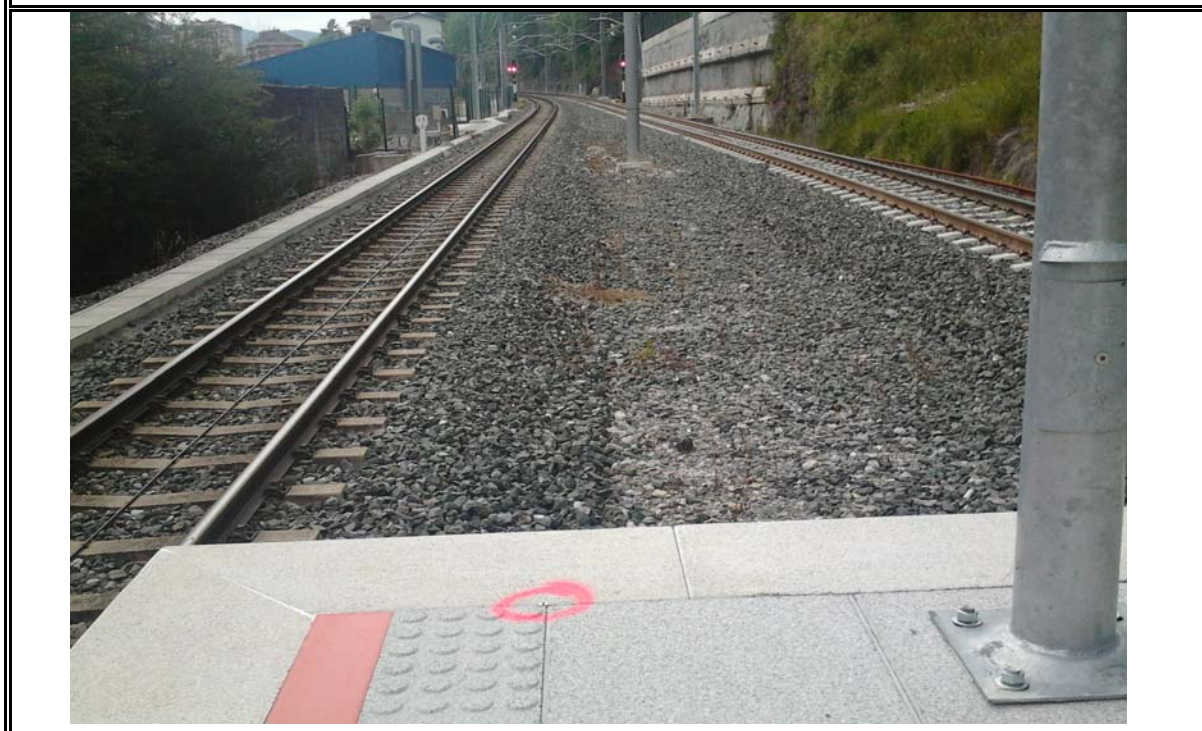
| | | COORDENADAS UTM ED50 | |
|--------------------------|-----|-----------------------------|---------------|
| NOMBRE DE LA BASE | V15 | X= | 544.341,839 |
| | | Y= | 4.782.299,086 |
| | | Z= | 107,941 |

| FOTOGRAFIA DE DETALLE | CROQUIS |
|--|---|
|  |  |

DESCRIPCION LITERAL

TIPO DE SEÑAL: Clavo spit.

SITUACION: Eibar. Al final del andén de la estación de Azitain




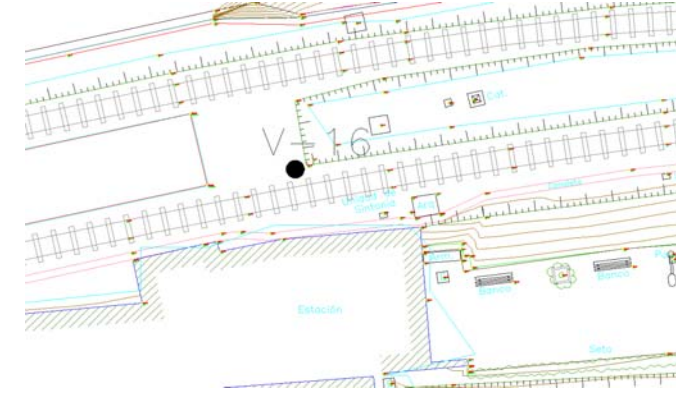


RESEÑAS DE LAS BASES

**EIBAR
(ETS)**

MAYO 2013

| | | COORDENADAS UTM ED50 | |
|--------------------------|-----|-----------------------------|---------------|
| NOMBRE DE LA BASE | V16 | X= | 544.443,940 |
| | | Y= | 4.782.321,207 |
| | | Z= | 104,527 |

| FOTOGRAFIA DE DETALLE | CROQUIS |
|--|---|
|  |  |

DESCRIPCION LITERAL

TIPO DE SEÑAL: Clavo spit.

SITUACION: Eibar. En una plataforma de hormigón junto al andén de la estación de Azitain



**APÉNDICE 2: PLANO DE SITUACION DE BASES Y AREA DEL LEVANTAMIENTO
TAQUIMETRICO**



OHARRAK :
NOTAS :

| LEYENDA | |
|---------|-------------------------------|
| | LIMITE TAQUIMÉTRICO OBTENIDO |
| | XX BASE DE REPLANTEO PROYECTO |

CUADRO de COORDENADAS

| PUNTOS | COTA X | COTA Y | COTA Z |
|--------|-----------------------|--------|---------|
| V1 | 543792.9504782041.800 | | 119.513 |
| V2 | 543818.2494782057.622 | | 119.016 |
| V3 | 543881.4564782093.497 | | 117.621 |
| V4 | 543891.5914782107.766 | | 117.416 |
| V5 | 543947.9134782138.904 | | 115.655 |
| V8 | 544287.3144782282.544 | | 107.624 |
| V10 | 544092.4414782209.105 | | 111.910 |
| V11 | 544169.2154782244.738 | | 109.883 |
| V12 | 544216.5504782262.528 | | 109.194 |
| V13 | 544313.1034782288.115 | | 107.245 |
| V14 | 544424.1154782312.430 | | 104.500 |
| V15 | 544341.8394782299.086 | | 107.941 |
| V16 | 544443.9404782321.207 | | 104.527 |



| REV. | CLASE DE MODIFICACIÓN | FECHA | NOMBRE | COMP. | OBRA |
|------|-----------------------|--------|--------|-------|------|
| A | PROYECTO | MAR.13 | IMB | JMH | |

| | |
|---|--|
| BERRIKUSPENAK / REVISIONES | |
| AHOLKULARIA / CONSULTOR | INGENIARI EGILEA INGENIERO AUTOR JESÚS MUNGUÍRA HERRANDO INGENIERO CAMINOS C.C. Y P.P. COLEGIADO Nº 11.380 |
| AHOLKULARIA ERREFERENTZIA REFERENCIA CONSULTOR | ERREFERENTZIA REFERENCIA |
| 3179-PC-AJ-04-DTE-CART-TO-AP-02 | 4-CEA-13-001-A |

APÉNDICE 3: LISTADO DE PUNTOS DEL TAQUIMETRICO

**LISTADO DE PUNTOS
CUBRICION EIBAR - AZITAIN
08/07/013**

| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|---------|
| 1 | 1 | 543747.966 | 4782044.488 | 113.829 | 006 |
| 2 | 1 | 543496.375 | 4781939.289 | 122.252 | 309,313 |
| 3 | 1 | 543501.069 | 4781940.762 | 121.108 | 309,313 |
| 4 | 1 | 543496.012 | 4781942.231 | 122.396 | 309 |
| 5 | 1 | 543500.778 | 4781942.182 | 121.106 | 331 |
| 6 | 1 | 543710.176 | 4781988.477 | 119.654 | 101 |
| 7 | 1 | 543513.174 | 4781944.745 | 120.627 | 315 |
| 8 | 1 | 543727.425 | 4781995.588 | 119.263 | 816 |
| 9 | 1 | 543548.271 | 4781956.008 | 117.959 | 315 |
| 10 | 1 | 543561.020 | 4781960.246 | 116.432 | 315 |
| 11 | 1 | 543545.611 | 4781956.772 | 118.054 | 605 |
| 12 | 1 | 543546.440 | 4781956.845 | 117.981 | 741 |
| 13 | 1 | 543748.799 | 4782009.099 | 119.673 | 101 |
| 14 | 1 | 543528.169 | 4781951.130 | 119.533 | 605 |
| 15 | 1 | 543521.350 | 4781948.764 | 120.090 | 741 |
| 16 | 1 | 543512.036 | 4781945.634 | 120.608 | 327 |
| 17 | 1 | 543505.018 | 4781968.122 | 120.898 | 605 |
| 18 | 1 | 543504.398 | 4781968.003 | 120.893 | 605 I |
| 19 | 1 | 543505.705 | 4781943.529 | 120.819 | 327 |
| 20 | 1 | 543506.597 | 4781943.176 | 120.825 | 706 |
| 21 | 1 | 543497.379 | 4781963.394 | 121.032 | 300 |
| 22 | 1 | 543503.012 | 4781963.172 | 120.919 | 103 |
| 23 | 1 | 543505.985 | 4781952.344 | 120.777 | 103 |
| 24 | 1 | 543514.224 | 4781969.640 | 119.775 | 327 I |
| 25 | 1 | 543518.369 | 4781963.682 | 119.856 | 706 |
| 26 | 1 | 543515.655 | 4781962.298 | 120.668 | 914 |
| 27 | 1 | 543517.963 | 4781958.814 | 120.359 | 605 |
| 28 | 1 | 543520.171 | 4781957.408 | 120.166 | 327 |
| 29 | 1 | 543520.122 | 4781957.051 | 120.033 | 605 |
| 30 | 1 | 543520.259 | 4781957.920 | 120.187 | 705 |
| 31 | 1 | 543521.116 | 4781958.663 | 120.145 | 805 |
| 32 | 1 | 543522.534 | 4781959.932 | 120.033 | 771 |
| 33 | 1 | 543523.389 | 4781959.993 | 119.910 | 706 |
| 34 | 1 | 543521.668 | 4781956.878 | 119.888 | 327 |
| 35 | 1 | 543524.287 | 4781956.962 | 119.795 | 327 |
| 36 | 1 | 543541.606 | 4781962.132 | 118.303 | 605 |
| 37 | 1 | 543541.529 | 4781962.494 | 118.392 | 327 |
| 38 | 1 | 543541.398 | 4781962.271 | 118.299 | 741 |
| 39 | 1 | 543547.664 | 4781964.242 | 117.682 | 741 |
| 40 | 1 | 543546.867 | 4781966.049 | 117.880 | 771 |
| 41 | 1 | 543547.120 | 4781966.437 | 117.835 | 770 |
| 42 | 1 | 543547.038 | 4781964.246 | 117.868 | 327 |
| 43 | 1 | 543556.710 | 4781969.411 | 116.670 | 706 |
| 44 | 1 | 543557.644 | 4781970.187 | 116.567 | 300 I |
| 45 | 1 | 543541.735 | 4781965.191 | 118.150 | 300 |
| 46 | 1 | 543524.726 | 4781959.651 | 119.725 | 300 |
| 47 | 1 | 543510.136 | 4781966.450 | 120.864 | 103 |
| 48 | 1 | 543701.745 | 4781991.786 | 120.093 | 611 |
| 49 | 1 | 543568.573 | 4781973.414 | 115.573 | 705 |
| 50 | 1 | 543564.512 | 4781969.719 | 115.601 | 741 |
| 51 | 1 | 543564.754 | 4781969.592 | 115.569 | 605 |
| 52 | 1 | 543576.602 | 4781973.351 | 115.043 | 605 |
| 53 | 1 | 543806.672 | 4782053.707 | 119.218 | 611 |
| 54 | 1 | 543577.386 | 4781974.178 | 115.075 | 410 |
| 55 | 1 | 543584.668 | 4781976.404 | 114.675 | 605 |
| 56 | 1 | 543584.466 | 4781976.450 | 114.680 | 741 |
| 57 | 1 | 543587.551 | 4781978.136 | 114.629 | 327 |
| 58 | 1 | 543587.808 | 4781977.794 | 114.523 | 605 |
| 59 | 1 | 543591.917 | 4781980.041 | 114.418 | 327 |
| 60 | 1 | 543595.921 | 4781980.427 | 114.256 | 327 |
| 61 | 1 | 543792.995 | 4782043.860 | 119.297 | 611 |

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| 62 | 1 | 543602.612 | 4781978.221 | 113.858 | 327 |
| 63 | 1 | 543608.018 | 4781976.420 | 113.556 | 313 |
| 64 | 1 | 543608.184 | 4781976.476 | 113.547 | 313 |
| 65 | 1 | 543608.558 | 4781980.199 | 113.732 | 313 |
| 66 | 1 | 543783.504 | 4782034.968 | 119.144 | 103 |
| 67 | 1 | 543668.337 | 4781990.375 | 119.784 | 103 |
| 68 | 1 | 543672.475 | 4781989.523 | 119.944 | 658 |
| 69 | 1 | 543590.751 | 4781982.031 | 114.484 | 705 |
| 70 | 1 | 543591.452 | 4781980.970 | 114.448 | 706 |
| 71 | 1 | 543591.590 | 4781980.317 | 114.420 | 706 |
| 72 | 1 | 543776.967 | 4782035.909 | 119.423 | 611 |
| 73 | 1 | 543588.918 | 4781982.766 | 114.595 | 309 I |
| 74 | 1 | 543587.506 | 4781982.286 | 115.613 | 309 |
| 75 | 1 | 543585.787 | 4781981.787 | 115.696 | 309 |
| 76 | 1 | 543771.748 | 4782027.980 | 119.027 | 102 |
| 77 | 1 | 544254.649 | 4782284.737 | 113.162 | 103 |
| 78 | 1 | 543583.908 | 4781984.589 | 117.939 | 313 |
| 79 | 1 | 544266.364 | 4782288.040 | 113.200 | 103 |
| 80 | 1 | 543583.461 | 4781978.740 | 117.609 | 309 |
| 81 | 1 | 543586.471 | 4781979.685 | 115.703 | 309 |
| 82 | 1 | 543586.084 | 4781979.351 | 114.744 | 313 I |
| 83 | 1 | 543726.400 | 4782015.756 | 120.211 | 102 |
| 84 | 1 | 544283.470 | 4782292.855 | 113.197 | 103 |
| 85 | 1 | 543563.808 | 4781972.048 | 115.794 | 706 |
| 86 | 1 | 543564.357 | 4781971.165 | 115.715 | 914 |
| 87 | 1 | 544292.521 | 4782296.933 | 113.098 | 315 |
| 88 | 1 | 543574.722 | 4781975.501 | 115.410 | 770 |
| 89 | 1 | 543577.127 | 4781974.119 | 115.103 | 410 |
| 90 | 1 | 543580.010 | 4781976.135 | 115.019 | 771 |
| 91 | 1 | 543762.134 | 4782038.483 | 119.076 | 317 |
| 92 | 1 | 544290.881 | 4782299.414 | 114.429 | 318 |
| 93 | 1 | 543583.499 | 4781977.599 | 114.856 | 805 |
| 94 | 1 | 543587.173 | 4781979.283 | 114.675 | 706 |
| 95 | 1 | 544276.230 | 4782293.704 | 113.170 | 705 |
| 96 | 1 | 543595.220 | 4781974.351 | 114.045 | 739 |
| 97 | 1 | 543594.933 | 4781973.714 | 114.043 | 740 |
| 98 | 1 | 543595.261 | 4781973.747 | 114.002 | 605 I |
| 99 | 1 | 543591.583 | 4781972.623 | 114.379 | 605 |
| 100 | 1 | 543782.149 | 4782029.602 | 119.844 | 311 I |
| 101 | 1 | 543592.111 | 4781971.679 | 114.528 | 313 |
| 102 | 1 | 543716.123 | 4782003.088 | 119.732 | 101 I |
| 103 | 1 | 543782.304 | 4782033.567 | 119.833 | 311 |
| 104 | 1 | 544229.570 | 4782280.757 | 109.328 | 309 I |
| 105 | 1 | 543705.799 | 4781998.544 | 119.821 | 101 |
| 106 | 1 | 543578.336 | 4781966.912 | 115.116 | 327 |
| 107 | 1 | 543706.341 | 4781997.063 | 120.038 | 611 |
| 108 | 1 | 544225.590 | 4782279.224 | 107.490 | 313 I, 331 I |
| 109 | 1 | 544234.108 | 4782282.811 | 109.911 | 102 |
| 110 | 1 | 543561.148 | 4781959.972 | 116.414 | 313 |
| 111 | 1 | 543786.996 | 4782034.429 | 119.851 | 326 I |
| 112 | 1 | 543587.248 | 4781971.420 | 114.652 | 731 |
| 113 | 1 | 543588.240 | 4781971.466 | 114.595 | 731 |
| 114 | 1 | 543596.228 | 4781972.588 | 114.030 | 313 I |
| 115 | 1 | 543596.559 | 4781973.185 | 113.999 | 327 I |
| 116 | 1 | 543599.296 | 4781971.948 | 113.749 | 327 |
| 117 | 1 | 543672.297 | 4781988.442 | 119.604 | 102 |
| 118 | 1 | 543611.982 | 4781960.201 | 112.250 | 313 |
| 119 | 1 | 543621.297 | 4781955.215 | 111.296 | 605 |
| 120 | 1 | 543781.682 | 4782031.646 | 121.032 | 500 |
| 121 | 1 | 543620.171 | 4781953.641 | 111.411 | 313 |
| 122 | 1 | 543628.755 | 4781958.210 | 111.361 | 313 I |

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| 123 | 1 | 543782.191 | 4782029.842 | 121.007 | 326 |
| 124 | 1 | 543627.575 | 4781956.336 | 111.206 | 801 |
| 125 | 1 | 544136.013 | 4782223.183 | 107.338 | 309 |
| 126 | 1 | 543614.238 | 4781967.464 | 112.398 | 605 |
| 127 | 1 | 544134.697 | 4782224.677 | 107.598 | 313 I |
| 128 | 1 | 543615.101 | 4781968.865 | 112.611 | 313 |
| 129 | 1 | 543776.290 | 4782025.182 | 120.043 | 314 |
| 130 | 1 | 543606.343 | 4781974.036 | 113.417 | 327 |
| 131 | 1 | 543606.143 | 4781973.769 | 113.224 | 605 |
| 132 | 1 | 544133.445 | 4782228.242 | 109.956 | 705 |
| 133 | 1 | 543604.408 | 4781974.452 | 118.273 | 314 |
| 134 | 1 | 543602.060 | 4781973.649 | 118.700 | 314 |
| 135 | 1 | 543598.967 | 4781972.724 | 118.163 | 314 |
| 136 | 1 | 543629.887 | 4781955.861 | 111.264 | 327 I |
| 137 | 1 | 544129.248 | 4782220.601 | 107.609 | 101 |
| 138 | 1 | 543629.307 | 4781958.350 | 111.361 | 313 I |
| 139 | 1 | 543699.632 | 4782003.885 | 124.096 | 101 I |
| 140 | 1 | 543622.206 | 4781953.939 | 111.231 | 605 |
| 141 | 1 | 543620.054 | 4781953.429 | 111.363 | 313 I |
| 142 | 1 | 543615.316 | 4781950.954 | 111.550 | 313 |
| 143 | 1 | 543620.648 | 4781953.424 | 111.372 | 706 |
| 144 | 1 | 543766.139 | 4782022.294 | 119.953 | 611 |
| 145 | 1 | 543630.581 | 4781952.828 | 111.047 | 103 |
| 146 | 1 | 543655.179 | 4782014.457 | 133.376 | 318 I,101 I |
| 147 | 1 | 543650.592 | 4782013.746 | 134.126 | 318 |
| 148 | 1 | 543623.285 | 4781956.357 | 116.915 | 314 |
| 149 | 1 | 543619.654 | 4781953.997 | 115.232 | 314 |
| 150 | 1 | 543643.009 | 4781965.970 | 111.574 | 313 I,307 I |
| 151 | 1 | 543623.698 | 4781977.912 | 112.724 | 313 |
| 152 | 1 | 543717.413 | 4781994.236 | 119.667 | 101 I |
| 153 | 1 | 543619.796 | 4781974.720 | 113.091 | 313 |
| 154 | 1 | 543620.921 | 4781974.498 | 112.678 | 313 |
| 155 | 1 | 543636.292 | 4782013.492 | 133.535 | 102 |
| 156 | 1 | 543628.736 | 4781972.090 | 112.381 | 313 |
| 157 | 1 | 543631.717 | 4781970.493 | 112.265 | 313 |
| 158 | 1 | 543727.662 | 4782001.161 | 119.839 | 658 |
| 159 | 1 | 543643.167 | 4781965.775 | 115.132 | 314 I |
| 160 | 1 | 543723.290 | 4781998.884 | 119.882 | 101 |
| 161 | 1 | 543641.722 | 4781964.405 | 116.658 | 314 |
| 162 | 1 | 543640.517 | 4781963.196 | 115.748 | 314 |
| 163 | 1 | 543640.245 | 4781963.042 | 114.677 | 314 |
| 164 | 1 | 543635.337 | 4781970.290 | 116.663 | 103 |
| 165 | 1 | 543627.970 | 4781974.425 | 116.792 | 103 |
| 166 | 1 | 543630.200 | 4782013.897 | 133.512 | 328 I |
| 167 | 1 | 543624.886 | 4782015.096 | 133.699 | 328 |
| 168 | 1 | 543724.378 | 4782002.617 | 119.917 | 611 |
| 169 | 1 | 543724.762 | 4782001.680 | 119.933 | 611 |
| 170 | 1 | 543590.893 | 4781984.251 | 120.466 | 102 |
| 171 | 1 | 543614.629 | 4782014.697 | 133.691 | 328 |
| 172 | 1 | 543600.783 | 4781982.622 | 120.464 | 102 |
| 173 | 1 | 543586.970 | 4781997.432 | 126.787 | 101 I |
| 174 | 1 | 543594.518 | 4781997.876 | 129.113 | 101 |
| 175 | 1 | 543609.835 | 4782015.007 | 133.995 | 102 |
| 176 | 1 | 543737.703 | 4782008.908 | 119.787 | 611 |
| 177 | 1 | 543583.727 | 4781986.700 | 120.091 | 102 I |
| 178 | 1 | 543581.876 | 4781988.366 | 120.584 | 102 |
| 179 | 1 | 543607.536 | 4782015.176 | 133.993 | 706 |
| 180 | 1 | 543746.244 | 4782021.147 | 119.217 | 652 |
| 181 | 1 | 543748.246 | 4782022.286 | 119.337 | 661 |
| 182 | 1 | 543581.241 | 4781985.421 | 119.450 | 309 I |
| 183 | 1 | 543598.225 | 4782018.508 | 134.062 | 328 |

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| 184 | 1 | 543597.901 | 4782017.714 | 133.931 | 328 |
| 185 | 1 | 543578.932 | 4781992.539 | 123.030 | 309 |
| 186 | 1 | 543598.973 | 4782016.950 | 134.116 | 50 |
| 187 | 1 | 543577.487 | 4781997.095 | 124.778 | 309 |
| 188 | 1 | 543744.393 | 4782021.253 | 119.553 | 326 I |
| 189 | 1 | 543745.195 | 4782019.815 | 119.781 | 326 |
| 190 | 1 | 543775.373 | 4782043.940 | 120.571 | 102 |
| 191 | 1 | 543742.308 | 4782019.943 | 119.681 | 326 C |
| 192 | 1 | 543786.736 | 4782047.231 | 119.273 | 102 |
| 193 | 1 | 543577.587 | 4781989.281 | 121.282 | 309 |
| 194 | 1 | 543738.349 | 4782013.158 | 119.746 | 611 |
| 195 | 1 | 543737.431 | 4782013.784 | 119.761 | 611 |
| 196 | 1 | 543570.204 | 4782007.044 | 126.788 | 327 |
| 197 | 1 | 543573.956 | 4782009.584 | 126.681 | 327 |
| 198 | 1 | 543853.133 | 4782086.171 | 118.024 | 102 |
| 199 | 1 | 543572.763 | 4782012.200 | 128.300 | 314 I |
| 200 | 1 | 543882.901 | 4782102.946 | 117.400 | 102 |
| 201 | 1 | 543886.160 | 4782104.980 | 117.414 | 102 |
| 202 | 1 | 543577.338 | 4782006.949 | 127.861 | 314 |
| 203 | 1 | 543773.913 | 4782044.233 | 125.632 | 101 |
| 204 | 1 | 543777.664 | 4782047.472 | 127.442 | 101 |
| 205 | 1 | 543578.284 | 4782004.855 | 126.767 | 331 I |
| 206 | 1 | 543575.737 | 4782003.214 | 126.617 | 331 |
| 207 | 1 | 543726.560 | 4782005.340 | 119.731 | 101 |
| 208 | 1 | 543579.001 | 4781992.628 | 123.001 | 331 |
| 209 | 1 | 543580.502 | 4781988.011 | 121.294 | 331 |
| 210 | 1 | 543580.663 | 4781989.206 | 121.109 | 811 |
| 211 | 1 | 543899.102 | 4782115.883 | 117.759 | 313 |
| 212 | 1 | 543902.462 | 4782117.756 | 117.040 | 313,315 I |
| 213 | 1 | 543911.909 | 4782123.060 | 116.498 | 315 |
| 214 | 1 | 543910.856 | 4782125.163 | 116.443 | 315,313 I |
| 215 | 1 | 543577.123 | 4782001.762 | 126.347 | 806 |
| 216 | 1 | 543576.802 | 4782002.801 | 126.596 | 740 |
| 217 | 1 | 543957.417 | 4782147.420 | 115.755 | 315 |
| 218 | 1 | 543578.296 | 4782004.362 | 126.608 | 706 |
| 219 | 1 | 543577.215 | 4782006.489 | 126.763 | 309 I |
| 220 | 1 | 543580.049 | 4782007.464 | 128.709 | 309 |
| 221 | 1 | 543586.172 | 4782006.154 | 129.868 | 309 |
| 222 | 1 | 543595.083 | 4782004.548 | 131.694 | 309 |
| 223 | 1 | 544144.868 | 4782246.189 | 114.605 | 101 |
| 224 | 1 | 544158.247 | 4782252.682 | 114.644 | 101 |
| 225 | 1 | 543603.106 | 4782007.459 | 134.829 | 309 |
| 226 | 1 | 543603.659 | 4782006.268 | 134.825 | 309,331 I |
| 227 | 1 | 543602.052 | 4782005.476 | 134.595 | 331 |
| 228 | 1 | 544194.839 | 4782267.470 | 117.445 | 101 |
| 229 | 1 | 543594.819 | 4782003.243 | 131.673 | 331 |
| 230 | 1 | 543747.255 | 4782022.452 | 119.137 | 102 I |
| 231 | 1 | 543747.737 | 4782021.774 | 119.342 | 101 I |
| 232 | 1 | 543579.717 | 4782007.946 | 128.457 | 102 I |
| 233 | 1 | 543577.973 | 4782010.134 | 128.673 | 102 |
| 234 | 1 | 544178.365 | 4782258.712 | 109.948 | 329 I |
| 235 | 1 | 543576.651 | 4782008.579 | 128.004 | 807 |
| 236 | 1 | 543754.735 | 4782026.745 | 118.912 | 313 |
| 237 | 1 | 543754.587 | 4782027.090 | 118.702 | 313 |
| 238 | 1 | 544200.530 | 4782266.341 | 109.425 | 329 |
| 239 | 1 | 544200.452 | 4782266.798 | 109.483 | 313 |
| 240 | 1 | 544208.214 | 4782269.089 | 109.266 | 313,102 I |
| 241 | 1 | 544208.498 | 4782268.509 | 109.267 | 329 |
| 242 | 1 | 543577.710 | 4782001.197 | 127.350 | 314 |
| 243 | 1 | 544212.111 | 4782270.246 | 109.166 | 102 |
| 244 | 1 | 543595.809 | 4782016.513 | 135.012 | 317 I |

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| 245 | 1 | 543596.873 | 4782015.614 | 134.955 | 402 |
| 246 | 1 | 543600.952 | 4782013.494 | 134.902 | 401 |
| 247 | 1 | 543601.177 | 4782014.690 | 134.910 | 317 |
| 248 | 1 | 543613.055 | 4782013.059 | 134.790 | 317 |
| 249 | 1 | 544238.768 | 4782280.051 | 110.362 | 101 |
| 250 | 1 | 543646.388 | 4782012.838 | 134.393 | 317 |
| 251 | 1 | 543750.592 | 4782029.746 | 118.992 | 328 |
| 252 | 1 | 543755.583 | 4782033.210 | 119.001 | 311 |
| 253 | 1 | 543632.868 | 4782010.857 | 134.488 | 401 |
| 254 | 1 | 544256.887 | 4782284.529 | 107.639 | 102 |
| 255 | 1 | 543620.596 | 4782011.661 | 134.700 | 771 |
| 256 | 1 | 543759.819 | 4782035.978 | 119.049 | 311 |
| 257 | 1 | 543609.122 | 4782012.227 | 134.799 | 401 |
| 258 | 1 | 543600.647 | 4782013.523 | 134.919 | 401 |
| 259 | 1 | 544287.539 | 4782293.013 | 106.703 | 329 I |
| 260 | 1 | 543605.988 | 4782009.658 | 135.005 | 110 |
| 261 | 1 | 543615.475 | 4782004.575 | 134.480 | 100 |
| 262 | 1 | 543762.894 | 4782032.105 | 118.836 | 102 |
| 263 | 1 | 543764.925 | 4782033.517 | 118.917 | 102 |
| 264 | 1 | 543618.378 | 4782004.738 | 134.517 | 100 |
| 265 | 1 | 544211.612 | 4782269.879 | 108.874 | 329 |
| 266 | 1 | 543767.959 | 4782033.945 | 119.282 | 101 |
| 267 | 1 | 543767.840 | 4782034.177 | 119.214 | 326 I |
| 268 | 1 | 543647.795 | 4782006.092 | 134.201 | 100 |
| 269 | 1 | 543654.464 | 4782008.803 | 133.927 | 100 |
| 270 | 1 | 543770.027 | 4782036.235 | 119.459 | 706 |
| 271 | 1 | 544293.246 | 4782295.456 | 113.137 | 314 |
| 272 | 1 | 544288.458 | 4782292.822 | 107.036 | 329 I |
| 273 | 1 | 544295.244 | 4782295.253 | 106.887 | 102 I |
| 274 | 1 | 543655.930 | 4782016.258 | 133.248 | 609 I |
| 275 | 1 | 543648.374 | 4782016.682 | 133.503 | 609 |
| 276 | 1 | 543767.577 | 4782032.861 | 119.515 | 611 |
| 277 | 1 | 543637.684 | 4782013.390 | 133.598 | 806 |
| 278 | 1 | 543776.060 | 4782034.364 | 119.435 | 611 I |
| 279 | 1 | 543631.210 | 4782014.124 | 133.722 | 734 |
| 280 | 1 | 543630.245 | 4782013.978 | 133.530 | 327 I |
| 281 | 1 | 543620.783 | 4782014.386 | 133.618 | 327 |
| 282 | 1 | 543620.681 | 4782016.861 | 133.728 | 609 |
| 283 | 1 | 543613.655 | 4782014.845 | 133.705 | 327 |
| 284 | 1 | 543750.235 | 4782021.694 | 119.663 | 611 I |
| 285 | 1 | 543594.711 | 4782022.016 | 134.157 | 609 |
| 286 | 1 | 543594.626 | 4782019.961 | 134.177 | 605 |
| 287 | 1 | 543600.921 | 4782008.506 | 134.838 | 101 I |
| 288 | 1 | 543594.825 | 4782010.189 | 134.995 | 101 |
| 289 | 1 | 543763.461 | 4782028.970 | 119.528 | 611 |
| 290 | 1 | 543762.715 | 4782028.570 | 119.564 | 611 |
| 291 | 1 | 543772.575 | 4782034.802 | 119.452 | 611 |
| 292 | 1 | 543772.041 | 4782035.659 | 119.446 | 611 |
| 293 | 1 | 543769.922 | 4782035.446 | 119.263 | 313 I |
| 294 | 1 | 543769.897 | 4782035.751 | 118.991 | 329 I |
| 295 | 1 | 544296.147 | 4782296.293 | 111.037 | 101 I |
| 296 | 1 | 543769.236 | 4782036.591 | 119.264 | 311 |
| 297 | 1 | 543774.363 | 4782038.347 | 119.338 | 311 |
| 298 | 1 | 543774.576 | 4782038.095 | 119.279 | 313 |
| 299 | 1 | 543775.194 | 4782037.628 | 119.430 | 611 |
| 300 | 1 | 543781.842 | 4782042.628 | 119.232 | 313 |
| 301 | 1 | 543781.739 | 4782042.791 | 118.864 | 329 |
| 302 | 1 | 543780.225 | 4782042.053 | 119.314 | 311 |
| 303 | 1 | 543780.116 | 4782042.572 | 119.554 | 658 |
| 304 | 1 | 543781.626 | 4782044.286 | 119.502 | 102 |
| 305 | 1 | 543787.672 | 4782046.426 | 119.146 | 313 |

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| 306 | 1 | 543788.270 | 4782045.937 | 119.286 | 611 |
| 307 | 1 | 543987.130 | 4782162.001 | 114.564 | 102 I |
| 308 | 1 | 543987.442 | 4782163.328 | 116.730 | 101 I |
| 309 | 1 | 544001.068 | 4782171.119 | 116.739 | 101 |
| 310 | 1 | 544001.388 | 4782170.331 | 114.197 | 102 |
| 311 | 1 | 544012.972 | 4782177.268 | 113.771 | 102 |
| 312 | 1 | 543777.113 | 4782034.854 | 119.414 | 611 |
| 313 | 1 | 544021.448 | 4782181.190 | 113.734 | 102 |
| 314 | 1 | 544026.596 | 4782184.481 | 113.415 | 102,329 I |
| 315 | 1 | 543794.747 | 4782048.044 | 119.045 | 101 I |
| 316 | 1 | 543799.277 | 4782050.991 | 119.028 | 101 |
| 317 | 1 | 543798.957 | 4782051.516 | 119.248 | 611 I |
| 318 | 1 | 544036.164 | 4782191.330 | 113.154 | 329 |
| 319 | 1 | 544038.960 | 4782190.597 | 112.249 | 329 |
| 320 | 1 | 544050.304 | 4782196.653 | 112.339 | 329 |
| 321 | 1 | 543797.639 | 4782054.027 | 119.218 | 102 |
| 322 | 1 | 543798.990 | 4782054.500 | 119.237 | 658 |
| 323 | 1 | 544063.960 | 4782205.324 | 113.225 | 329 |
| 324 | 1 | 543801.795 | 4782056.522 | 119.144 | 102 |
| 325 | 1 | 543802.288 | 4782055.816 | 118.920 | 655 |
| 326 | 1 | 543803.442 | 4782056.739 | 119.078 | 311 |
| 327 | 1 | 544062.522 | 4782204.093 | 111.910 | 103 |
| 328 | 1 | 544050.920 | 4782198.006 | 111.784 | 103 |
| 329 | 1 | 544050.826 | 4782198.915 | 112.104 | 329 |
| 330 | 1 | 543804.858 | 4782055.208 | 119.174 | 611 |
| 331 | 1 | 543805.269 | 4782054.693 | 118.964 | 101 |
| 332 | 1 | 543806.387 | 4782058.805 | 119.071 | 500 |
| 333 | 1 | 543811.831 | 4782062.938 | 118.920 | 102 |
| 334 | 1 | 543812.579 | 4782062.356 | 119.010 | 311 |
| 335 | 1 | 543812.697 | 4782062.180 | 118.619 | 329 |
| 336 | 1 | 544030.790 | 4782189.503 | 113.180 | 101 |
| 337 | 1 | 544023.741 | 4782185.508 | 113.369 | 329 |
| 338 | 1 | 543814.011 | 4782060.816 | 119.075 | 611 |
| 339 | 1 | 543814.665 | 4782060.403 | 118.882 | 101 |
| 340 | 1 | 544019.494 | 4782182.671 | 114.218 | 329 I |
| 341 | 1 | 543818.227 | 4782066.617 | 118.937 | 102 |
| 342 | 1 | 543818.886 | 4782066.076 | 118.893 | 311 |
| 343 | 1 | 544033.149 | 4782188.824 | 112.128 | 103 |
| 344 | 1 | 543819.060 | 4782065.768 | 118.886 | 313 |
| 345 | 1 | 543819.650 | 4782065.345 | 119.001 | 611 |
| 346 | 1 | 543820.170 | 4782064.477 | 118.921 | 611 |
| 347 | 1 | 543820.581 | 4782064.032 | 118.714 | 101 |
| 348 | 1 | 543826.937 | 4782067.355 | 118.601 | 101 |
| 349 | 1 | 544093.516 | 4782220.376 | 115.655 | 101 |
| 350 | 1 | 543826.398 | 4782069.136 | 118.912 | 611 |
| 351 | 1 | 544106.336 | 4782226.986 | 114.708 | 101 |
| 352 | 1 | 543825.761 | 4782069.783 | 118.423 | 329 |
| 353 | 1 | 543825.779 | 4782069.946 | 118.761 | 311 |
| 354 | 1 | 543824.753 | 4782070.353 | 118.717 | 654 |
| 355 | 1 | 543823.805 | 4782070.241 | 118.686 | 102 |
| 356 | 1 | 543825.890 | 4782071.297 | 118.722 | 102 |
| 357 | 1 | 543825.718 | 4782061.651 | 118.838 | 314 I, 317 I |
| 358 | 1 | 544125.499 | 4782235.537 | 111.390 | 313 |
| 359 | 1 | 544126.329 | 4782234.926 | 111.182 | 329 |
| 360 | 1 | 544127.369 | 4782236.919 | 111.483 | 313 I |
| 361 | 1 | 544129.953 | 4782238.394 | 111.973 | 313 |
| 362 | 1 | 543830.177 | 4782064.533 | 118.769 | 314 |
| 363 | 1 | 543830.419 | 4782064.356 | 118.767 | 317 |
| 364 | 1 | 543837.173 | 4782068.156 | 118.609 | 317 |
| 365 | 1 | 543837.252 | 4782068.532 | 118.626 | 314 |
| 366 | 1 | 543837.086 | 4782068.885 | 118.622 | 816 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|--------|
| 367 | 1 | 543837.315 | 4782069.068 | 118.423 | 103 |
| 368 | 1 | 544159.359 | 4782251.157 | 110.400 | 329 |
| 369 | 1 | 544159.254 | 4782251.766 | 110.394 | 313 |
| 370 | 1 | 543848.294 | 4782074.392 | 118.424 | 317 |
| 371 | 1 | 543857.755 | 4782079.791 | 118.259 | 317 |
| 372 | 1 | 544174.103 | 4782257.627 | 109.745 | 329 I |
| 373 | 1 | 544161.857 | 4782252.667 | 110.062 | 329 |
| 374 | 1 | 544154.409 | 4782249.868 | 112.271 | 314 I |
| 375 | 1 | 543867.504 | 4782086.125 | 117.756 | 103 |
| 376 | 1 | 544146.908 | 4782246.120 | 110.404 | 329 |
| 377 | 1 | 544130.472 | 4782237.529 | 110.719 | 329 |
| 378 | 1 | 543868.149 | 4782085.696 | 117.959 | 317 |
| 379 | 1 | 544126.016 | 4782235.195 | 110.832 | 329 |
| 380 | 1 | 543878.813 | 4782092.259 | 117.683 | 314 |
| 381 | 1 | 543878.632 | 4782092.598 | 117.704 | 816 |
| 382 | 1 | 543878.806 | 4782092.774 | 117.454 | 103 |
| 383 | 1 | 543885.468 | 4782096.316 | 117.257 | 103 |
| 384 | 1 | 544111.916 | 4782229.865 | 114.342 | 314 |
| 385 | 1 | 543885.804 | 4782095.974 | 117.483 | 314 |
| 386 | 1 | 543885.912 | 4782095.741 | 117.483 | 317 |
| 387 | 1 | 543881.455 | 4782093.497 | 117.611 | 006 |
| 388 | 1 | 543891.347 | 4782099.540 | 117.116 | 103 |
| 389 | 1 | 543891.312 | 4782099.431 | 117.443 | 816 |
| 390 | 1 | 543894.391 | 4782100.974 | 116.930 | 103 |
| 391 | 1 | 543895.477 | 4782100.824 | 116.991 | 700 I |
| 392 | 1 | 543896.445 | 4782101.223 | 116.955 | 700 |
| 393 | 1 | 543896.952 | 4782100.147 | 116.984 | 700 |
| 394 | 1 | 543891.715 | 4782098.942 | 117.406 | 317 |
| 395 | 1 | 543894.362 | 4782100.452 | 117.332 | 314 |
| 396 | 1 | 543894.457 | 4782100.263 | 117.308 | 314 |
| 397 | 1 | 543896.641 | 4782100.808 | 116.969 | 311 I |
| 398 | 1 | 543899.608 | 4782102.832 | 116.732 | 311 |
| 399 | 1 | 543903.952 | 4782106.291 | 116.574 | 102 |
| 400 | 1 | 543896.707 | 4782100.766 | 116.223 | 103 |
| 401 | 1 | 543895.801 | 4782100.010 | 116.174 | 103 |
| 402 | 1 | 543895.617 | 4782098.296 | 115.812 | 314 |
| 403 | 1 | 543895.626 | 4782098.226 | 115.797 | 317 |
| 404 | 1 | 543900.987 | 4782101.656 | 115.730 | 317 |
| 405 | 1 | 543901.058 | 4782103.690 | 116.908 | 317 |
| 406 | 1 | 543905.979 | 4782106.789 | 116.587 | 816 |
| 407 | 1 | 543913.533 | 4782111.599 | 116.298 | 102 |
| 408 | 1 | 543914.477 | 4782111.174 | 116.371 | 317 |
| 409 | 1 | 543921.876 | 4782115.415 | 116.195 | 656 |
| 410 | 1 | 543922.795 | 4782114.980 | 116.071 | 311 I |
| 411 | 1 | 543923.181 | 4782116.078 | 116.038 | 311 |
| 412 | 1 | 543922.999 | 4782116.038 | 116.100 | 317 I |
| 413 | 1 | 543929.973 | 4782121.042 | 115.796 | 102 |
| 414 | 1 | 543930.455 | 4782120.732 | 115.960 | 816 |
| 415 | 1 | 543930.795 | 4782120.467 | 115.948 | 317 |
| 416 | 1 | 543935.889 | 4782124.152 | 115.609 | 102 |
| 417 | 1 | 543939.146 | 4782126.139 | 115.681 | 102 |
| 418 | 1 | 543939.141 | 4782125.604 | 115.742 | 816 |
| 419 | 1 | 543939.979 | 4782126.022 | 116.121 | 500 |
| 420 | 1 | 543939.076 | 4782126.701 | 115.716 | 101 I |
| 421 | 1 | 543938.379 | 4782128.298 | 116.040 | 611 |
| 422 | 1 | 543938.029 | 4782128.751 | 115.831 | 113 I |
| 423 | 1 | 543929.348 | 4782124.464 | 115.970 | 102 |
| 424 | 1 | 543929.481 | 4782124.066 | 116.092 | 113 |
| 425 | 1 | 543929.827 | 4782123.461 | 116.257 | 611 |
| 426 | 1 | 543930.379 | 4782122.630 | 116.230 | 611 |
| 427 | 1 | 543918.037 | 4782115.649 | 116.557 | 611 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-------------|
| 428 | 1 | 543911.686 | 4782118.042 | 117.125 | 101 I,102 I |
| 429 | 1 | 543915.452 | 4782120.786 | 116.691 | 102 |
| 430 | 1 | 543916.110 | 4782120.376 | 116.942 | 101 |
| 431 | 1 | 543934.410 | 4782131.475 | 115.998 | 102 |
| 432 | 1 | 543934.963 | 4782131.029 | 116.261 | 101 |
| 433 | 1 | 543935.926 | 4782132.454 | 115.859 | 500 |
| 434 | 1 | 543936.236 | 4782130.853 | 116.053 | 611 I |
| 435 | 1 | 543936.746 | 4782129.385 | 115.836 | 101 I |
| 436 | 1 | 543926.706 | 4782123.584 | 116.138 | 101 |
| 437 | 1 | 543926.204 | 4782124.069 | 118.319 | 611 |
| 438 | 1 | 543920.932 | 4782120.427 | 118.271 | 101 |
| 439 | 1 | 543917.899 | 4782120.485 | 118.553 | 611 |
| 440 | 1 | 543910.568 | 4782113.911 | 116.560 | 103 |
| 441 | 1 | 543910.763 | 4782112.697 | 116.723 | 611 |
| 442 | 1 | 543911.298 | 4782111.863 | 116.750 | 611 |
| 443 | 1 | 543903.359 | 4782107.391 | 116.919 | 611 |
| 444 | 1 | 543902.886 | 4782108.280 | 116.920 | 611 |
| 445 | 1 | 543903.695 | 4782109.486 | 116.748 | 101 |
| 446 | 1 | 543895.814 | 4782105.414 | 116.872 | 102,101 |
| 447 | 1 | 543900.808 | 4782108.822 | 116.827 | 101 |
| 448 | 1 | 543903.883 | 4782115.382 | 116.783 | 705 |
| 449 | 1 | 543902.852 | 4782112.044 | 116.917 | 611 |
| 450 | 1 | 543903.938 | 4782108.865 | 116.912 | 611 |
| 451 | 1 | 543906.876 | 4782108.382 | 116.688 | 101 I |
| 452 | 1 | 543899.228 | 4782106.215 | 117.031 | 611 |
| 453 | 1 | 543891.824 | 4782103.112 | 117.021 | 103 |
| 454 | 1 | 543883.368 | 4782098.512 | 117.326 | 103 |
| 455 | 1 | 543883.511 | 4782097.418 | 117.456 | 611 |
| 456 | 1 | 543883.953 | 4782096.534 | 117.443 | 611 |
| 457 | 1 | 543872.463 | 4782090.117 | 117.740 | 611 |
| 458 | 1 | 543871.315 | 4782091.561 | 117.620 | 103 |
| 459 | 1 | 543850.482 | 4782077.760 | 118.296 | 611 |
| 460 | 1 | 543849.998 | 4782078.655 | 118.297 | 611 |
| 461 | 1 | 543844.266 | 4782074.239 | 118.448 | 611 |
| 462 | 1 | 543833.772 | 4782068.387 | 118.706 | 611 |
| 463 | 1 | 543832.899 | 4782070.085 | 118.419 | 102 |
| 464 | 1 | 543832.605 | 4782070.558 | 118.534 | 101 |
| 465 | 1 | 543832.134 | 4782072.413 | 118.713 | 611 |
| 466 | 1 | 543831.917 | 4782073.218 | 118.186 | 329 |
| 467 | 1 | 543831.945 | 4782073.427 | 118.555 | 311 |
| 468 | 1 | 543841.175 | 4782079.537 | 118.463 | 102 |
| 469 | 1 | 543841.984 | 4782079.116 | 118.279 | 311 |
| 470 | 1 | 543841.989 | 4782078.928 | 117.954 | 329 |
| 471 | 1 | 543848.809 | 4782082.542 | 118.151 | 313 |
| 472 | 1 | 543848.911 | 4782082.725 | 117.793 | 329 |
| 473 | 1 | 543849.020 | 4782083.980 | 118.368 | 102 |
| 474 | 1 | 543848.708 | 4782083.840 | 118.187 | 657 |
| 475 | 1 | 543849.653 | 4782083.724 | 118.211 | 651 |
| 476 | 1 | 543853.958 | 4782086.625 | 118.088 | 654 |
| 477 | 1 | 543855.397 | 4782087.427 | 118.019 | 102 |
| 478 | 1 | 543856.414 | 4782087.155 | 117.912 | 311 |
| 479 | 1 | 543856.645 | 4782086.940 | 117.888 | 313 |
| 480 | 1 | 543867.692 | 4782092.345 | 117.790 | 611 |
| 481 | 1 | 543867.748 | 4782093.180 | 117.608 | 313 |
| 482 | 1 | 543875.790 | 4782097.703 | 117.434 | 313 |
| 483 | 1 | 543876.528 | 4782096.155 | 117.580 | 611 |
| 484 | 1 | 543879.090 | 4782100.265 | 117.480 | 706 |
| 485 | 1 | 543877.458 | 4782099.616 | 117.425 | 102 |
| 486 | 1 | 543879.480 | 4782100.476 | 117.446 | 102 |
| 487 | 1 | 543882.747 | 4782102.643 | 117.418 | 102 |
| 488 | 1 | 543882.824 | 4782102.060 | 117.225 | 311 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 489 | 1 | 543882.792 | 4782101.839 | 116.996 | 329 |
| 490 | 1 | 543882.998 | 4782100.883 | 117.434 | 611 |
| 491 | 1 | 543884.880 | 4782104.396 | 117.537 | 102 |
| 492 | 1 | 543885.222 | 4782104.265 | 117.544 | 102 |
| 493 | 1 | 543886.137 | 4782104.969 | 117.515 | 313 I |
| 494 | 1 | 543888.533 | 4782114.180 | 118.214 | 313 |
| 495 | 1 | 543887.451 | 4782104.339 | 117.258 | 103 |
| 496 | 1 | 543887.472 | 4782103.424 | 117.310 | 611 |
| 497 | 1 | 543887.872 | 4782102.508 | 117.342 | 611 |
| 498 | 1 | 543892.137 | 4782107.247 | 117.322 | 739 |
| 499 | 1 | 543892.701 | 4782107.747 | 117.262 | 311 I |
| 500 | 1 | 543895.429 | 4782110.688 | 118.258 | 311 |
| 501 | 1 | 543894.805 | 4782108.845 | 117.009 | 706 |
| 502 | 1 | 543892.841 | 4782107.708 | 117.056 | 327 I |
| 503 | 1 | 543892.810 | 4782107.754 | 116.719 | 329 I |
| 504 | 1 | 543893.976 | 4782108.538 | 116.695 | 329 |
| 505 | 1 | 543894.046 | 4782108.465 | 117.056 | 327 |
| 506 | 1 | 543894.465 | 4782108.891 | 116.982 | 327 |
| 507 | 1 | 543894.967 | 4782109.213 | 117.004 | 327 |
| 508 | 1 | 543895.270 | 4782109.166 | 116.964 | 327 |
| 509 | 1 | 543894.500 | 4782109.587 | 116.701 | 329 I |
| 510 | 1 | 543897.010 | 4782111.340 | 116.555 | 329 I |
| 511 | 1 | 543896.713 | 4782111.758 | 116.671 | 329 |
| 512 | 1 | 543896.960 | 4782111.943 | 116.657 | 329 |
| 513 | 1 | 543897.268 | 4782111.517 | 116.515 | 329 |
| 514 | 1 | 543899.243 | 4782112.752 | 116.395 | 329 |
| 515 | 1 | 543898.737 | 4782111.419 | 116.787 | 327 |
| 516 | 1 | 543898.116 | 4782109.363 | 117.017 | 611 |
| 517 | 1 | 543898.583 | 4782108.507 | 117.026 | 611 |
| 518 | 1 | 543905.415 | 4782112.365 | 116.859 | 611 |
| 519 | 1 | 543905.006 | 4782113.264 | 116.841 | 611 |
| 520 | 1 | 543902.771 | 4782115.761 | 116.786 | 327 |
| 521 | 1 | 543904.009 | 4782117.104 | 116.802 | 327 |
| 522 | 1 | 543903.750 | 4782117.431 | 116.251 | 329 |
| 523 | 1 | 543905.995 | 4782118.483 | 116.466 | 706 |
| 524 | 1 | 543907.074 | 4782118.793 | 116.603 | 327 |
| 525 | 1 | 543906.837 | 4782119.232 | 116.333 | 329 |
| 526 | 1 | 543907.285 | 4782119.389 | 116.761 | 705 |
| 527 | 1 | 543895.548 | 4782111.035 | 117.156 | 313 I |
| 528 | 1 | 543895.823 | 4782110.706 | 117.060 | 327 I |
| 529 | 1 | 543896.939 | 4782111.366 | 117.038 | 327 |
| 530 | 1 | 543896.671 | 4782111.776 | 117.227 | 327,313 |
| 531 | 1 | 543896.996 | 4782111.990 | 117.231 | 327 I,313 |
| 532 | 1 | 543897.328 | 4782111.622 | 117.007 | 327 |
| 533 | 1 | 543899.246 | 4782112.819 | 116.832 | 327 |
| 534 | 1 | 543898.997 | 4782113.405 | 117.044 | 313 |
| 535 | 1 | 543899.185 | 4782115.864 | 117.619 | 313 |
| 536 | 1 | 543902.504 | 4782117.838 | 117.077 | 313,315 I |
| 537 | 1 | 543903.668 | 4782117.513 | 116.734 | 327 |
| 538 | 1 | 543906.840 | 4782119.275 | 116.690 | 327 |
| 539 | 1 | 543906.880 | 4782120.323 | 116.716 | 315 |
| 540 | 1 | 543911.804 | 4782123.121 | 116.494 | 315 |
| 541 | 1 | 543910.949 | 4782121.632 | 116.693 | 706 |
| 542 | 1 | 543912.808 | 4782121.932 | 116.363 | 326 I |
| 543 | 1 | 543913.034 | 4782121.486 | 116.313 | 326 |
| 544 | 1 | 543914.052 | 4782122.073 | 116.272 | 326 |
| 545 | 1 | 543913.805 | 4782122.504 | 116.317 | 326 C |
| 546 | 1 | 543914.324 | 4782121.708 | 116.139 | 102 I |
| 547 | 1 | 543919.667 | 4782124.312 | 116.000 | 102 |
| 548 | 1 | 543925.314 | 4782127.514 | 115.871 | 102 |
| 549 | 1 | 543929.967 | 4782130.631 | 115.669 | 102 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|---------|
| 550 | 1 | 543934.757 | 4782132.840 | 115.636 | 102 |
| 551 | 1 | 543928.907 | 4782132.629 | 116.430 | 313 I |
| 552 | 1 | 543937.300 | 4782134.533 | 115.522 | 102 |
| 553 | 1 | 543937.199 | 4782133.070 | 115.567 | 102 |
| 554 | 1 | 543943.172 | 4782136.557 | 115.428 | 102 |
| 555 | 1 | 543942.861 | 4782137.320 | 115.390 | 102 |
| 556 | 1 | 543943.972 | 4782137.749 | 115.420 | 706 |
| 557 | 1 | 543942.044 | 4782135.285 | 115.652 | 655 |
| 558 | 1 | 543945.532 | 4782129.633 | 115.336 | 655 |
| 559 | 1 | 543946.820 | 4782139.774 | 115.480 | 655 |
| 560 | 1 | 543947.282 | 4782140.052 | 115.485 | 655 |
| 561 | 1 | 543947.279 | 4782139.038 | 115.701 | 704 |
| 562 | 1 | 543950.113 | 4782140.457 | 115.482 | 705 |
| 563 | 1 | 543950.393 | 4782141.609 | 115.523 | 705 |
| 564 | 1 | 543945.722 | 4782138.170 | 115.621 | 658 |
| 565 | 1 | 543945.627 | 4782139.546 | 115.418 | 655 |
| 566 | 1 | 543946.731 | 4782136.774 | 115.796 | 611 I |
| 567 | 1 | 543947.132 | 4782135.867 | 115.814 | 611 |
| 568 | 1 | 543947.520 | 4782135.450 | 115.545 | 113 I |
| 569 | 1 | 543947.818 | 4782135.099 | 115.447 | 102 I |
| 570 | 1 | 543955.261 | 4782139.287 | 115.284 | 102 |
| 571 | 1 | 543954.972 | 4782139.589 | 115.431 | 101 |
| 572 | 1 | 543955.030 | 4782140.327 | 115.605 | 611 |
| 573 | 1 | 543954.536 | 4782141.186 | 115.620 | 611 |
| 574 | 1 | 543953.940 | 4782142.322 | 115.391 | 103 |
| 575 | 1 | 543953.633 | 4782143.713 | 115.379 | 102 |
| 576 | 1 | 543958.464 | 4782145.763 | 114.885 | 102 |
| 577 | 1 | 543959.320 | 4782144.641 | 115.320 | 101 |
| 578 | 1 | 543959.740 | 4782144.106 | 115.508 | 611 |
| 579 | 1 | 543960.213 | 4782143.264 | 115.475 | 611 |
| 580 | 1 | 543960.669 | 4782142.859 | 115.274 | 113 |
| 581 | 1 | 543961.070 | 4782142.507 | 115.125 | 114 I |
| 582 | 1 | 543969.848 | 4782147.460 | 114.974 | 114 I |
| 583 | 1 | 543969.546 | 4782147.776 | 115.101 | 113 |
| 584 | 1 | 543969.123 | 4782148.264 | 115.283 | 611 |
| 585 | 1 | 543968.656 | 4782149.138 | 115.272 | 611 |
| 586 | 1 | 543968.216 | 4782149.619 | 115.091 | 101 |
| 587 | 1 | 543967.953 | 4782151.190 | 114.668 | 102 |
| 588 | 1 | 543972.589 | 4782152.734 | 114.818 | 102 |
| 589 | 1 | 543972.899 | 4782152.354 | 114.991 | 101 |
| 590 | 1 | 543973.161 | 4782153.653 | 114.955 | 658 |
| 591 | 1 | 543974.362 | 4782152.364 | 115.122 | 611 |
| 592 | 1 | 543974.801 | 4782151.459 | 115.111 | 611 |
| 593 | 1 | 543975.438 | 4782151.080 | 114.891 | 113 |
| 594 | 1 | 543975.700 | 4782150.615 | 114.823 | 114 |
| 595 | 1 | 543981.035 | 4782153.562 | 114.671 | 114 |
| 596 | 1 | 543981.003 | 4782154.214 | 114.812 | 113 |
| 597 | 1 | 543980.503 | 4782154.709 | 115.006 | 611 |
| 598 | 1 | 543980.081 | 4782155.638 | 115.017 | 611 |
| 599 | 1 | 543979.664 | 4782156.264 | 114.953 | 101 |
| 600 | 1 | 543979.414 | 4782156.963 | 114.789 | 102 |
| 601 | 1 | 543986.884 | 4782160.978 | 114.467 | 102 |
| 602 | 1 | 543987.317 | 4782160.508 | 114.686 | 101 |
| 603 | 1 | 543987.309 | 4782159.692 | 114.832 | 611 |
| 604 | 1 | 543987.758 | 4782158.804 | 114.829 | 611 |
| 605 | 1 | 543988.194 | 4782158.266 | 114.656 | 113 I |
| 606 | 1 | 543988.527 | 4782157.852 | 114.482 | 114 |
| 607 | 1 | 543993.542 | 4782165.262 | 114.465 | 114 |
| 608 | 1 | 543994.139 | 4782164.742 | 114.485 | 114 |
| 609 | 1 | 543995.202 | 4782165.910 | 114.607 | 704 |
| 610 | 1 | 543996.648 | 4782165.792 | 114.436 | 101,102 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|--------|
| 611 | 1 | 543997.289 | 4782165.320 | 114.608 | 611 |
| 612 | 1 | 543997.798 | 4782164.458 | 114.578 | 611 |
| 613 | 1 | 543998.454 | 4782163.866 | 114.377 | 113 |
| 614 | 1 | 543998.889 | 4782163.755 | 114.257 | 113 |
| 615 | 1 | 543998.971 | 4782168.125 | 114.432 | 654 |
| 616 | 1 | 544004.363 | 4782171.374 | 114.204 | 657 |
| 617 | 1 | 544004.439 | 4782172.111 | 114.225 | 102 |
| 618 | 1 | 544005.677 | 4782171.165 | 114.103 | 100 I |
| 619 | 1 | 544006.206 | 4782170.288 | 114.339 | 611 |
| 620 | 1 | 544006.671 | 4782169.406 | 114.343 | 611 |
| 621 | 1 | 544007.232 | 4782168.759 | 114.205 | 113 |
| 622 | 1 | 544007.560 | 4782168.468 | 114.044 | 114 |
| 623 | 1 | 544016.927 | 4782173.676 | 113.796 | 114 |
| 624 | 1 | 544017.054 | 4782174.071 | 113.936 | 113 |
| 625 | 1 | 544016.614 | 4782174.850 | 114.088 | 611 |
| 626 | 1 | 544016.141 | 4782175.751 | 114.087 | 611 |
| 627 | 1 | 544015.797 | 4782176.361 | 113.958 | 101 |
| 628 | 1 | 544015.677 | 4782177.027 | 113.667 | 100 |
| 629 | 1 | 544015.485 | 4782178.225 | 113.805 | 102 |
| 630 | 1 | 544288.246 | 4782281.829 | 107.666 | 317 I |
| 631 | 1 | 544281.006 | 4782279.947 | 107.488 | 317 |
| 632 | 1 | 544272.763 | 4782277.859 | 107.326 | 317 |
| 633 | 1 | 544266.548 | 4782276.353 | 107.083 | 317 |
| 634 | 1 | 544266.434 | 4782276.781 | 107.477 | 317 |
| 635 | 1 | 544261.372 | 4782276.004 | 107.304 | 317 |
| 636 | 1 | 544263.989 | 4782275.776 | 107.043 | 102 |
| 637 | 1 | 544261.400 | 4782275.289 | 106.941 | 102 |
| 638 | 1 | 544260.126 | 4782274.912 | 106.850 | 114 I |
| 639 | 1 | 544260.138 | 4782275.129 | 107.452 | 113 I |
| 640 | 1 | 544259.965 | 4782275.720 | 107.449 | 313 I |
| 641 | 1 | 544256.729 | 4782274.795 | 107.593 | 313 |
| 642 | 1 | 544256.850 | 4782274.279 | 107.469 | 113 |
| 643 | 1 | 544258.325 | 4782267.764 | 106.580 | 317 I |
| 644 | 1 | 544258.339 | 4782268.226 | 106.593 | 561 I |
| 645 | 1 | 544260.739 | 4782268.700 | 106.707 | 561 |
| 646 | 1 | 544261.185 | 4782268.376 | 106.599 | 317 |
| 647 | 1 | 544269.795 | 4782271.047 | 106.987 | 317 |
| 648 | 1 | 544269.740 | 4782271.526 | 107.054 | 561 |
| 649 | 1 | 544278.446 | 4782274.290 | 107.333 | 561 |
| 650 | 1 | 544278.614 | 4782273.893 | 107.291 | 317 |
| 651 | 1 | 544289.861 | 4782277.485 | 107.512 | 317 |
| 652 | 1 | 544290.083 | 4782277.927 | 107.554 | 561 |
| 653 | 1 | 544291.866 | 4782278.852 | 107.567 | 561 |
| 654 | 1 | 544292.382 | 4782278.775 | 107.502 | 317 |
| 655 | 1 | 544294.905 | 4782281.538 | 107.605 | 561 |
| 656 | 1 | 544297.839 | 4782284.326 | 107.548 | 561 |
| 657 | 1 | 544298.591 | 4782284.736 | 107.427 | 317 |
| 658 | 1 | 544297.443 | 4782285.291 | 107.553 | 739 I |
| 659 | 1 | 544297.629 | 4782284.555 | 107.541 | 739 |
| 660 | 1 | 544289.854 | 4782282.688 | 107.696 | 739 |
| 661 | 1 | 544289.674 | 4782283.429 | 107.704 | 739 C |
| 662 | 1 | 544287.696 | 4782282.400 | 107.580 | 658 |
| 663 | 1 | 544287.313 | 4782282.544 | 107.614 | 006 |
| 664 | 1 | 544250.258 | 4782273.623 | 108.315 | 816 I |
| 665 | 1 | 544250.334 | 4782273.199 | 108.338 | 317 I |
| 666 | 1 | 544250.014 | 4782273.675 | 108.213 | 102 I |
| 667 | 1 | 544249.904 | 4782274.424 | 108.429 | 101 I |
| 668 | 1 | 544250.218 | 4782275.128 | 108.614 | 304 I |
| 669 | 1 | 544249.970 | 4782276.096 | 108.673 | 304 |
| 670 | 1 | 544249.805 | 4782276.530 | 108.480 | 113 I |
| 671 | 1 | 544249.472 | 4782277.159 | 108.271 | 114 I |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 672 | 1 | 544239.494 | 4782274.275 | 108.424 | 114 |
| 673 | 1 | 544239.522 | 4782273.792 | 108.708 | 113 |
| 674 | 1 | 544239.125 | 4782273.076 | 108.923 | 611 |
| 675 | 1 | 544239.459 | 4782272.119 | 108.865 | 611 |
| 676 | 1 | 544239.549 | 4782271.580 | 108.646 | 101 |
| 677 | 1 | 544239.546 | 4782271.164 | 108.492 | 102 |
| 678 | 1 | 544239.538 | 4782270.829 | 108.723 | 816 |
| 679 | 1 | 544239.701 | 4782270.450 | 108.717 | 317 |
| 680 | 1 | 544236.099 | 4782269.251 | 108.783 | 317 |
| 681 | 1 | 544235.824 | 4782269.498 | 108.776 | 816 |
| 682 | 1 | 544235.850 | 4782269.579 | 108.462 | 102 |
| 683 | 1 | 544230.940 | 4782268.603 | 108.735 | 101,102 |
| 684 | 1 | 544232.668 | 4782268.937 | 108.777 | 816 |
| 685 | 1 | 544232.482 | 4782268.086 | 108.600 | 317 |
| 686 | 1 | 544232.630 | 4782267.518 | 108.784 | 317 |
| 687 | 1 | 544231.628 | 4782267.207 | 108.764 | 317 |
| 688 | 1 | 544231.449 | 4782267.789 | 108.815 | 317 |
| 689 | 1 | 544231.731 | 4782267.753 | 109.123 | 658 |
| 690 | 1 | 544230.962 | 4782268.535 | 108.786 | 816,101 I |
| 691 | 1 | 544230.718 | 4782269.557 | 109.035 | 611 |
| 692 | 1 | 544230.441 | 4782270.521 | 109.088 | 611 |
| 693 | 1 | 544230.010 | 4782270.889 | 108.874 | 113 I |
| 694 | 1 | 544229.636 | 4782271.330 | 108.803 | 114 |
| 695 | 1 | 544221.604 | 4782268.808 | 108.976 | 114 |
| 696 | 1 | 544221.678 | 4782268.409 | 109.114 | 113 |
| 697 | 1 | 544221.793 | 4782267.860 | 109.290 | 611 |
| 698 | 1 | 544222.124 | 4782266.887 | 109.259 | 611 |
| 699 | 1 | 544222.442 | 4782266.167 | 109.100 | 101 |
| 700 | 1 | 544222.790 | 4782265.287 | 108.809 | 102 |
| 701 | 1 | 544222.801 | 4782265.202 | 109.188 | 816 |
| 702 | 1 | 544222.885 | 4782264.755 | 109.155 | 317 |
| 703 | 1 | 544219.837 | 4782263.507 | 109.229 | 317 |
| 704 | 1 | 544219.785 | 4782264.001 | 109.219 | 816 |
| 705 | 1 | 544219.741 | 4782264.038 | 108.743 | 103 |
| 706 | 1 | 544219.411 | 4782264.593 | 108.740 | 102 |
| 707 | 1 | 544215.159 | 4782261.223 | 109.169 | 317 |
| 708 | 1 | 544214.973 | 4782261.651 | 109.158 | 816 |
| 709 | 1 | 544214.798 | 4782261.708 | 108.720 | 103 |
| 710 | 1 | 544214.130 | 4782262.857 | 108.810 | 102 |
| 711 | 1 | 544213.710 | 4782263.498 | 109.248 | 101 |
| 712 | 1 | 544212.953 | 4782263.941 | 109.451 | 611 |
| 713 | 1 | 544212.636 | 4782264.865 | 109.510 | 611 |
| 714 | 1 | 544212.090 | 4782265.411 | 109.326 | 113 |
| 715 | 1 | 544211.791 | 4782265.675 | 109.190 | 114 |
| 716 | 1 | 544208.911 | 4782258.445 | 108.888 | 317 |
| 717 | 1 | 544208.765 | 4782258.823 | 108.873 | 816 |
| 718 | 1 | 544208.571 | 4782258.827 | 108.702 | 103 |
| 719 | 1 | 544206.876 | 4782259.979 | 108.863 | 102 |
| 720 | 1 | 544205.759 | 4782260.784 | 109.378 | 101 |
| 721 | 1 | 544205.508 | 4782261.433 | 109.623 | 611 |
| 722 | 1 | 544205.199 | 4782262.366 | 109.645 | 611 |
| 723 | 1 | 544204.779 | 4782262.958 | 109.451 | 113 |
| 724 | 1 | 544204.518 | 4782263.218 | 109.331 | 114 |
| 725 | 1 | 544203.618 | 4782258.720 | 109.652 | 658 |
| 726 | 1 | 544196.800 | 4782253.707 | 108.876 | 317 |
| 727 | 1 | 544196.451 | 4782253.953 | 108.909 | 816 |
| 728 | 1 | 544195.418 | 4782256.177 | 109.156 | 102 |
| 729 | 1 | 544194.722 | 4782257.035 | 109.595 | 101 |
| 730 | 1 | 544194.746 | 4782257.019 | 109.607 | 611 |
| 731 | 1 | 544194.316 | 4782257.474 | 109.883 | 611 |
| 732 | 1 | 544193.941 | 4782258.398 | 109.912 | 611 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|---------|
| 733 | 1 | 544193.269 | 4782258.791 | 109.758 | 113 I |
| 734 | 1 | 544192.895 | 4782259.203 | 109.606 | 114 |
| 735 | 1 | 544184.146 | 4782255.878 | 109.775 | 114 |
| 736 | 1 | 544184.107 | 4782255.443 | 109.942 | 113 |
| 737 | 1 | 544184.344 | 4782254.837 | 110.123 | 611 |
| 738 | 1 | 544184.646 | 4782253.891 | 110.096 | 611 |
| 739 | 1 | 544184.780 | 4782253.241 | 109.881 | 101 |
| 740 | 1 | 544184.541 | 4782252.184 | 109.434 | 102 |
| 741 | 1 | 544185.264 | 4782250.165 | 109.282 | 816 |
| 742 | 1 | 544185.304 | 4782249.814 | 109.280 | 317 |
| 743 | 1 | 544179.952 | 4782249.633 | 109.629 | 706 |
| 744 | 1 | 544178.131 | 4782247.794 | 109.602 | 317 |
| 745 | 1 | 544177.867 | 4782248.062 | 109.620 | 816 |
| 746 | 1 | 544177.223 | 4782249.371 | 109.682 | 102 |
| 747 | 1 | 544178.550 | 4782249.471 | 109.996 | 658 |
| 748 | 1 | 544176.442 | 4782249.848 | 110.081 | 101 |
| 749 | 1 | 544176.250 | 4782250.637 | 110.322 | 611 |
| 750 | 1 | 544175.951 | 4782251.589 | 110.353 | 611 |
| 751 | 1 | 544175.388 | 4782252.066 | 110.143 | 113 |
| 752 | 1 | 544174.957 | 4782252.442 | 110.014 | 114 |
| 753 | 1 | 544168.075 | 4782249.679 | 110.171 | 114 |
| 754 | 1 | 544167.948 | 4782249.051 | 110.340 | 113 |
| 755 | 1 | 544169.420 | 4782244.198 | 109.880 | 611,317 |
| 756 | 1 | 544169.208 | 4782244.577 | 109.895 | 816 |
| 757 | 1 | 544168.742 | 4782246.031 | 109.885 | 102 |
| 758 | 1 | 544168.120 | 4782246.578 | 110.312 | 101 |
| 759 | 1 | 544167.889 | 4782247.310 | 110.519 | 611 |
| 760 | 1 | 544167.539 | 4782248.216 | 110.563 | 611 |
| 761 | 1 | 544161.041 | 4782246.679 | 110.300 | 114 |
| 762 | 1 | 544161.101 | 4782246.329 | 110.517 | 113 |
| 763 | 1 | 544160.947 | 4782245.466 | 110.706 | 611 |
| 764 | 1 | 544161.336 | 4782244.618 | 110.650 | 611 |
| 765 | 1 | 544161.681 | 4782243.930 | 110.415 | 101 |
| 766 | 1 | 544162.077 | 4782243.187 | 110.120 | 102 |
| 767 | 1 | 544163.010 | 4782241.875 | 109.885 | 317 |
| 768 | 1 | 544165.496 | 4782243.140 | 109.852 | 816 |
| 769 | 1 | 544163.583 | 4782242.863 | 110.006 | 816 |
| 770 | 1 | 544162.466 | 4782242.590 | 109.943 | 816 |
| 771 | 1 | 544162.734 | 4782242.282 | 110.311 | 700 I |
| 772 | 1 | 544161.490 | 4782241.672 | 110.283 | 700 |
| 773 | 1 | 544161.955 | 4782240.693 | 110.265 | 700 |
| 774 | 1 | 544163.145 | 4782241.312 | 110.288 | 317 |
| 775 | 1 | 544161.985 | 4782240.770 | 110.274 | 317 |
| 776 | 1 | 544161.563 | 4782241.350 | 110.067 | 317 |
| 777 | 1 | 544159.786 | 4782241.083 | 110.138 | 816 |
| 778 | 1 | 544158.925 | 4782242.015 | 110.029 | 102 |
| 779 | 1 | 544158.083 | 4782239.942 | 110.304 | 816 |
| 780 | 1 | 544158.220 | 4782239.617 | 110.298 | 317 |
| 781 | 1 | 544152.431 | 4782238.124 | 110.249 | 706 |
| 782 | 1 | 544152.457 | 4782239.150 | 110.238 | 102 |
| 783 | 1 | 544151.658 | 4782239.570 | 110.674 | 101 |
| 784 | 1 | 544151.320 | 4782238.107 | 110.857 | 656 |
| 785 | 1 | 544149.759 | 4782239.565 | 110.917 | 611 |
| 786 | 1 | 544149.265 | 4782240.391 | 110.932 | 611 |
| 787 | 1 | 544148.733 | 4782240.778 | 110.731 | 113 |
| 788 | 1 | 544148.383 | 4782241.249 | 110.574 | 114 |
| 789 | 1 | 544142.301 | 4782238.472 | 110.735 | 114 |
| 790 | 1 | 544142.357 | 4782237.868 | 110.870 | 113 |
| 791 | 1 | 544142.685 | 4782237.509 | 111.032 | 611 |
| 792 | 1 | 544143.167 | 4782236.589 | 111.080 | 611 |
| 793 | 1 | 544143.537 | 4782236.023 | 110.829 | 101 |

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|--------|-------|------------|-------------|----------|--------|
| 794 | 1 | 544144.106 | 4782235.296 | 110.409 | 102 |
| 795 | 1 | 544145.216 | 4782233.336 | 110.578 | 816 |
| 796 | 1 | 544145.149 | 4782232.924 | 110.553 | 317 |
| 797 | 1 | 544140.414 | 4782230.801 | 110.612 | 317 |
| 798 | 1 | 544140.196 | 4782231.091 | 110.652 | 816 |
| 799 | 1 | 544135.737 | 4782230.318 | 110.835 | 816 |
| 800 | 1 | 544135.541 | 4782229.905 | 110.833 | 317 |
| 801 | 1 | 544134.097 | 4782230.024 | 110.595 | 103 |
| 802 | 1 | 544133.382 | 4782230.448 | 110.701 | 102 |
| 803 | 1 | 544132.258 | 4782229.453 | 111.043 | 816 |
| 804 | 1 | 544132.415 | 4782229.055 | 111.035 | 317 |
| 805 | 1 | 544131.791 | 4782230.474 | 111.124 | 101 |
| 806 | 1 | 544131.269 | 4782231.036 | 111.367 | 611 |
| 807 | 1 | 544130.850 | 4782231.936 | 111.374 | 611 |
| 808 | 1 | 544130.357 | 4782232.415 | 111.215 | 113 |
| 809 | 1 | 544129.901 | 4782232.633 | 111.096 | 114 |
| 810 | 1 | 544123.758 | 4782229.661 | 111.237 | 114 |
| 811 | 1 | 544123.821 | 4782229.122 | 111.370 | 113 |
| 812 | 1 | 544123.819 | 4782228.512 | 111.529 | 113 |
| 813 | 1 | 544124.215 | 4782227.601 | 111.514 | 113 |
| 814 | 1 | 544124.530 | 4782227.015 | 111.241 | 101 |
| 815 | 1 | 544124.507 | 4782226.072 | 110.845 | 102 |
| 816 | 1 | 544124.507 | 4782225.672 | 111.188 | 816 |
| 817 | 1 | 544124.637 | 4782225.283 | 111.162 | 317 |
| 818 | 1 | 544122.557 | 4782224.300 | 111.227 | 317 |
| 819 | 1 | 544122.851 | 4782223.678 | 111.092 | 317 |
| 820 | 1 | 544121.803 | 4782223.853 | 111.335 | 654 |
| 821 | 1 | 544121.702 | 4782223.143 | 110.869 | 317 |
| 822 | 1 | 544121.411 | 4782223.720 | 111.249 | 317 |
| 823 | 1 | 543941.676 | 4782127.060 | 115.668 | 816 I |
| 824 | 1 | 543941.944 | 4782126.757 | 115.658 | 317 I |
| 825 | 1 | 543949.335 | 4782130.967 | 115.514 | 317 |
| 826 | 1 | 543949.021 | 4782131.198 | 115.508 | 816 |
| 827 | 1 | 543950.061 | 4782131.387 | 115.544 | 816 |
| 828 | 1 | 543950.327 | 4782130.949 | 115.456 | 317 |
| 829 | 1 | 543950.392 | 4782131.530 | 115.459 | 317 |
| 830 | 1 | 543947.616 | 4782130.460 | 115.126 | 102 I |
| 831 | 1 | 543955.552 | 4782135.409 | 115.100 | 102 |
| 832 | 1 | 543955.950 | 4782135.134 | 115.169 | 103 |
| 833 | 1 | 543956.009 | 4782135.130 | 115.344 | 816 |
| 834 | 1 | 543956.359 | 4782134.848 | 115.321 | 317 |
| 835 | 1 | 543965.826 | 4782140.231 | 115.089 | 317 |
| 836 | 1 | 543965.704 | 4782140.655 | 115.093 | 816 |
| 837 | 1 | 543965.471 | 4782140.859 | 114.818 | 102 |
| 838 | 1 | 543972.424 | 4782144.938 | 114.676 | 102 |
| 839 | 1 | 543972.742 | 4782144.639 | 114.719 | 103 |
| 840 | 1 | 543972.808 | 4782144.645 | 114.939 | 816 |
| 841 | 1 | 543973.040 | 4782144.330 | 114.944 | 317 |
| 842 | 1 | 543976.201 | 4782146.114 | 114.858 | 317 |
| 843 | 1 | 543976.885 | 4782146.000 | 114.634 | 317 |
| 844 | 1 | 543976.673 | 4782146.339 | 114.801 | 658 |
| 845 | 1 | 543977.380 | 4782146.792 | 114.803 | 317 |
| 846 | 1 | 543978.858 | 4782148.100 | 114.762 | 816 |
| 847 | 1 | 543978.574 | 4782148.237 | 114.564 | 102 |
| 848 | 1 | 543986.942 | 4782152.935 | 114.411 | 102 |
| 849 | 1 | 543987.106 | 4782152.756 | 114.575 | 816 |
| 850 | 1 | 543987.574 | 4782152.544 | 114.558 | 317 |
| 851 | 1 | 543996.770 | 4782157.682 | 114.324 | 317 |
| 852 | 1 | 543996.813 | 4782158.174 | 114.314 | 816 |
| 853 | 1 | 543996.534 | 4782158.452 | 114.178 | 102 |
| 854 | 1 | 544002.227 | 4782161.400 | 113.953 | 102 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|--------|
| 855 | 1 | 544002.340 | 4782161.211 | 114.204 | 816 |
| 856 | 1 | 544002.503 | 4782160.830 | 114.171 | 317 |
| 857 | 1 | 544002.805 | 4782160.280 | 114.049 | 317 |
| 858 | 1 | 544004.259 | 4782161.070 | 114.045 | 317 |
| 859 | 1 | 544003.968 | 4782161.598 | 114.108 | 317 |
| 860 | 1 | 544002.999 | 4782161.173 | 114.135 | 654 |
| 861 | 1 | 544009.557 | 4782165.651 | 113.849 | 102 |
| 862 | 1 | 544012.601 | 4782166.941 | 113.728 | 102 |
| 863 | 1 | 544012.631 | 4782166.845 | 113.935 | 816 |
| 864 | 1 | 544013.075 | 4782166.612 | 113.928 | 317 |
| 865 | 1 | 544020.664 | 4782170.781 | 113.736 | 317 |
| 866 | 1 | 544020.607 | 4782171.203 | 113.724 | 816 |
| 867 | 1 | 544020.326 | 4782171.566 | 113.536 | 102 |
| 868 | 1 | 544030.191 | 4782176.835 | 113.175 | 102 |
| 869 | 1 | 544030.367 | 4782176.542 | 113.490 | 816 |
| 870 | 1 | 544031.164 | 4782176.507 | 113.453 | 317 |
| 871 | 1 | 544031.841 | 4782176.346 | 113.370 | 317 |
| 872 | 1 | 544031.521 | 4782176.679 | 113.402 | 658 |
| 873 | 1 | 544032.120 | 4782177.008 | 113.444 | 317 |
| 874 | 1 | 544040.500 | 4782181.441 | 113.212 | 317 |
| 875 | 1 | 544040.499 | 4782181.876 | 113.203 | 816 |
| 876 | 1 | 544040.271 | 4782182.167 | 112.901 | 102 |
| 877 | 1 | 544042.201 | 4782182.804 | 113.156 | 816 |
| 878 | 1 | 544042.526 | 4782182.532 | 113.148 | 317 |
| 879 | 1 | 544052.821 | 4782187.928 | 112.899 | 317 |
| 880 | 1 | 544052.750 | 4782188.327 | 112.900 | 816 |
| 881 | 1 | 544052.425 | 4782188.750 | 112.768 | 102 |
| 882 | 1 | 544062.019 | 4782193.673 | 112.452 | 102 |
| 883 | 1 | 544062.334 | 4782193.392 | 112.669 | 816 |
| 884 | 1 | 544062.480 | 4782193.048 | 112.642 | 317 |
| 885 | 1 | 544063.145 | 4782192.902 | 112.577 | 317 |
| 886 | 1 | 544062.969 | 4782193.261 | 112.564 | 658 |
| 887 | 1 | 544063.707 | 4782193.700 | 112.621 | 317 |
| 888 | 1 | 544071.451 | 4782197.710 | 112.443 | 317 |
| 889 | 1 | 544071.488 | 4782198.148 | 112.445 | 658 |
| 890 | 1 | 544071.175 | 4782198.417 | 112.101 | 102 |
| 891 | 1 | 544083.441 | 4782205.026 | 111.958 | 102 |
| 892 | 1 | 544084.069 | 4782204.856 | 112.149 | 816 |
| 893 | 1 | 544084.227 | 4782204.548 | 112.142 | 317 |
| 894 | 1 | 544085.029 | 4782205.300 | 112.108 | 816 |
| 895 | 1 | 544090.078 | 4782208.864 | 111.945 | 655 |
| 896 | 1 | 544090.510 | 4782208.278 | 111.754 | 102 |
| 897 | 1 | 544091.629 | 4782208.721 | 111.923 | 816 |
| 898 | 1 | 544091.057 | 4782208.003 | 111.916 | 317 |
| 899 | 1 | 544092.638 | 4782208.326 | 111.875 | 317 |
| 900 | 1 | 544092.453 | 4782208.640 | 111.840 | 658 |
| 901 | 1 | 544092.440 | 4782209.105 | 111.900 | 006 |
| 902 | 1 | 544093.306 | 4782209.150 | 111.849 | 317 |
| 903 | 1 | 544100.270 | 4782213.788 | 111.421 | 102 |
| 904 | 1 | 544100.599 | 4782213.353 | 111.737 | 816 |
| 905 | 1 | 544101.342 | 4782213.258 | 111.711 | 317 |
| 906 | 1 | 544106.790 | 4782216.211 | 111.625 | 317 |
| 907 | 1 | 544106.332 | 4782216.380 | 111.577 | 816 |
| 908 | 1 | 544108.096 | 4782217.380 | 111.558 | 816 |
| 909 | 1 | 544107.902 | 4782217.763 | 111.305 | 102 |
| 910 | 1 | 544116.439 | 4782222.158 | 111.058 | 102 |
| 911 | 1 | 544116.727 | 4782221.779 | 111.343 | 816 |
| 912 | 1 | 544117.057 | 4782221.521 | 111.347 | 317 |
| 913 | 1 | 544118.025 | 4782222.393 | 111.326 | 651 |
| 914 | 1 | 544120.968 | 4782224.331 | 110.933 | 102 |
| 915 | 1 | 544119.887 | 4782224.823 | 111.417 | 101 I |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|--------|
| 916 | 1 | 544119.799 | 4782225.413 | 112.653 | 611 I |
| 917 | 1 | 544119.381 | 4782226.348 | 112.632 | 611 |
| 918 | 1 | 544118.915 | 4782226.763 | 112.459 | 113 I |
| 919 | 1 | 544118.588 | 4782227.221 | 112.261 | 114 I |
| 920 | 1 | 544109.387 | 4782222.511 | 112.552 | 114 I |
| 921 | 1 | 544109.525 | 4782221.993 | 112.667 | 113 |
| 922 | 1 | 544109.695 | 4782221.442 | 112.866 | 611 |
| 923 | 1 | 544110.112 | 4782220.530 | 112.859 | 611 |
| 924 | 1 | 544110.449 | 4782220.051 | 112.604 | 101 |
| 925 | 1 | 544100.704 | 4782215.031 | 112.876 | 101 |
| 926 | 1 | 544100.510 | 4782215.569 | 113.070 | 101 |
| 927 | 1 | 544100.129 | 4782216.498 | 113.085 | 101 |
| 928 | 1 | 544099.571 | 4782216.948 | 112.912 | 113 |
| 929 | 1 | 544099.368 | 4782217.192 | 112.798 | 114 |
| 930 | 1 | 544089.123 | 4782211.887 | 113.007 | 114 |
| 931 | 1 | 544089.515 | 4782211.553 | 113.155 | 113 |
| 932 | 1 | 544089.466 | 4782210.911 | 113.336 | 611 |
| 933 | 1 | 544089.931 | 4782210.038 | 113.324 | 611 |
| 934 | 1 | 544090.127 | 4782209.420 | 113.168 | 101 |
| 935 | 1 | 544079.359 | 4782203.731 | 113.397 | 101 |
| 936 | 1 | 544079.323 | 4782204.435 | 113.607 | 611 |
| 937 | 1 | 544079.318 | 4782205.549 | 113.596 | 611 |
| 938 | 1 | 544079.165 | 4782206.242 | 113.427 | 113 |
| 939 | 1 | 544078.772 | 4782206.540 | 113.253 | 114 |
| 940 | 1 | 544067.513 | 4782200.541 | 113.538 | 114 |
| 941 | 1 | 544067.717 | 4782200.185 | 113.651 | 113 |
| 942 | 1 | 544068.203 | 4782199.713 | 113.842 | 611 |
| 943 | 1 | 544068.644 | 4782198.808 | 113.848 | 611 |
| 944 | 1 | 544068.995 | 4782198.262 | 113.672 | 101 |
| 945 | 1 | 544059.374 | 4782196.344 | 113.777 | 114 |
| 946 | 1 | 544059.540 | 4782195.953 | 113.807 | 113 |
| 947 | 1 | 544059.060 | 4782195.647 | 113.878 | 113 |
| 948 | 1 | 544059.206 | 4782194.962 | 114.075 | 611 |
| 949 | 1 | 544059.689 | 4782194.072 | 114.058 | 611 |
| 950 | 1 | 544059.932 | 4782193.347 | 113.917 | 101 |
| 951 | 1 | 544050.500 | 4782188.407 | 114.124 | 101 |
| 952 | 1 | 544050.060 | 4782189.029 | 114.316 | 611 |
| 953 | 1 | 544049.610 | 4782189.890 | 114.317 | 611 |
| 954 | 1 | 544049.250 | 4782190.397 | 113.181 | 611 |
| 955 | 1 | 544049.147 | 4782190.444 | 113.149 | 113 |
| 956 | 1 | 544048.841 | 4782190.763 | 113.026 | 114 |
| 957 | 1 | 544040.543 | 4782186.233 | 113.168 | 114 |
| 958 | 1 | 544040.580 | 4782185.907 | 113.357 | 114 |
| 959 | 1 | 544040.633 | 4782185.187 | 113.532 | 611 |
| 960 | 1 | 544040.554 | 4782184.014 | 113.540 | 611 |
| 961 | 1 | 544040.966 | 4782183.620 | 113.317 | 101 |
| 962 | 1 | 544030.251 | 4782177.821 | 113.588 | 101 |
| 963 | 1 | 544029.936 | 4782178.393 | 113.801 | 611 |
| 964 | 1 | 544029.468 | 4782179.267 | 113.804 | 611 |
| 965 | 1 | 544029.034 | 4782179.748 | 113.623 | 113 |
| 966 | 1 | 544028.755 | 4782180.010 | 113.467 | 114 |
| 967 | 1 | 544019.109 | 4782174.832 | 113.758 | 114 |
| 968 | 1 | 544019.381 | 4782173.812 | 114.065 | 611 |
| 969 | 1 | 544019.896 | 4782172.957 | 114.044 | 611 |
| 970 | 1 | 544020.155 | 4782172.360 | 113.881 | 101 |
| 971 | 1 | 544010.501 | 4782166.941 | 114.119 | 101 |
| 972 | 1 | 544010.004 | 4782167.509 | 114.297 | 611 |
| 973 | 1 | 544009.497 | 4782168.391 | 114.292 | 611 |
| 974 | 1 | 544009.021 | 4782168.885 | 114.161 | 113 |
| 975 | 1 | 543997.836 | 4782162.690 | 114.462 | 113 |
| 976 | 1 | 543998.279 | 4782162.101 | 114.595 | 611 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 977 | 1 | 543998.421 | 4782161.034 | 114.595 | 611 |
| 978 | 1 | 543998.649 | 4782160.355 | 114.408 | 101 |
| 979 | 1 | 543989.573 | 4782155.193 | 114.625 | 101 |
| 980 | 1 | 543988.973 | 4782155.694 | 114.824 | 611 |
| 981 | 1 | 543988.517 | 4782156.587 | 114.819 | 611 |
| 982 | 1 | 543987.877 | 4782157.470 | 114.515 | 113 |
| 983 | 1 | 543977.797 | 4782151.342 | 114.853 | 113 |
| 984 | 1 | 543978.133 | 4782150.720 | 115.074 | 611 |
| 985 | 1 | 543978.566 | 4782149.830 | 115.078 | 611 |
| 986 | 1 | 543978.930 | 4782149.272 | 114.937 | 101 |
| 987 | 1 | 543968.826 | 4782143.532 | 115.152 | 101 |
| 988 | 1 | 543968.653 | 4782144.243 | 115.316 | 611 |
| 989 | 1 | 543968.192 | 4782145.116 | 115.323 | 611 |
| 990 | 1 | 543967.896 | 4782145.611 | 115.147 | 113 |
| 991 | 1 | 543956.847 | 4782139.538 | 115.381 | 113 |
| 992 | 1 | 543957.221 | 4782138.932 | 115.579 | 611 |
| 993 | 1 | 543957.700 | 4782138.050 | 115.577 | 611 |
| 994 | 1 | 543958.067 | 4782137.513 | 115.359 | 101 |
| 995 | 1 | 543948.113 | 4782132.044 | 115.597 | 101 |
| 996 | 1 | 543947.762 | 4782132.434 | 115.826 | 611 |
| 997 | 1 | 543947.302 | 4782133.321 | 115.816 | 611 |
| 998 | 1 | 543946.821 | 4782133.733 | 115.614 | 113 |
| 999 | 1 | 543947.912 | 4782138.904 | 115.645 | 006 |
| 1000 | 1 | 544006.378 | 4782172.912 | 113.997 | 102 I |
| 1001 | 1 | 544006.984 | 4782172.314 | 113.880 | 114 I |
| 1002 | 1 | 544007.210 | 4782171.695 | 114.204 | 113 I |
| 1003 | 1 | 544007.772 | 4782171.135 | 114.327 | 611 I |
| 1004 | 1 | 544008.206 | 4782170.237 | 114.336 | 611 |
| 1005 | 1 | 544008.634 | 4782169.664 | 114.123 | 101 I |
| 1006 | 1 | 544020.347 | 4782176.031 | 113.854 | 101 |
| 1007 | 1 | 544019.820 | 4782176.577 | 114.008 | 611 |
| 1008 | 1 | 544019.349 | 4782177.444 | 114.035 | 611 |
| 1009 | 1 | 544018.797 | 4782178.035 | 113.907 | 113 |
| 1010 | 1 | 544018.623 | 4782178.309 | 113.742 | 114 |
| 1011 | 1 | 544018.947 | 4782178.768 | 113.959 | 700 I |
| 1012 | 1 | 544019.528 | 4782170.570 | 113.773 | 006 |
| 1013 | 1 | 544023.239 | 4782181.115 | 113.602 | 651 |
| 1014 | 1 | 544027.475 | 4782183.759 | 113.535 | 658 |
| 1015 | 1 | 544028.339 | 4782183.321 | 113.575 | 103 |
| 1016 | 1 | 544028.370 | 4782182.322 | 113.767 | 611 |
| 1017 | 1 | 544028.814 | 4782181.397 | 113.763 | 611 |
| 1018 | 1 | 544029.230 | 4782180.924 | 113.535 | 101 |
| 1019 | 1 | 544036.536 | 4782184.628 | 113.403 | 101 |
| 1020 | 1 | 544036.229 | 4782185.292 | 113.601 | 611 |
| 1021 | 1 | 544035.807 | 4782186.175 | 113.609 | 611 |
| 1022 | 1 | 544032.336 | 4782185.254 | 113.530 | 113 I |
| 1023 | 1 | 544035.378 | 4782186.746 | 113.417 | 113 |
| 1024 | 1 | 544033.325 | 4782186.926 | 113.184 | 327 I |
| 1025 | 1 | 544035.136 | 4782188.215 | 112.798 | 327 |
| 1026 | 1 | 544036.474 | 4782189.199 | 113.173 | 311 |
| 1027 | 1 | 544037.162 | 4782189.605 | 113.170 | 311 I |
| 1028 | 1 | 544038.904 | 4782190.531 | 112.252 | 311,327 I |
| 1029 | 1 | 544039.362 | 4782188.836 | 113.381 | 113 |
| 1030 | 1 | 544039.469 | 4782188.190 | 113.496 | 611 |
| 1031 | 1 | 544039.934 | 4782187.286 | 113.487 | 611 |
| 1032 | 1 | 544040.285 | 4782186.711 | 113.302 | 101 |
| 1033 | 1 | 544049.566 | 4782191.572 | 113.080 | 101 |
| 1034 | 1 | 544048.988 | 4782192.060 | 113.298 | 611 |
| 1035 | 1 | 544049.021 | 4782193.224 | 113.276 | 611 |
| 1036 | 1 | 544048.430 | 4782193.627 | 113.092 | 113 |
| 1037 | 1 | 544048.174 | 4782194.452 | 112.867 | 103 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|--------|
| 1038 | 1 | 544047.776 | 4782195.233 | 112.333 | 327 |
| 1039 | 1 | 544048.478 | 4782194.991 | 113.299 | 704 |
| 1040 | 1 | 544048.733 | 4782195.669 | 112.399 | 327 |
| 1041 | 1 | 544052.388 | 4782197.633 | 112.454 | 327 |
| 1042 | 1 | 544053.089 | 4782195.962 | 113.005 | 113 |
| 1043 | 1 | 544053.293 | 4782195.450 | 113.153 | 611 |
| 1044 | 1 | 544053.724 | 4782194.561 | 113.171 | 611 |
| 1045 | 1 | 544054.060 | 4782193.929 | 112.966 | 101 |
| 1046 | 1 | 544062.035 | 4782198.041 | 112.759 | 101 |
| 1047 | 1 | 544061.632 | 4782198.692 | 112.981 | 611 |
| 1048 | 1 | 544061.202 | 4782199.545 | 112.994 | 611 |
| 1049 | 1 | 544061.004 | 4782200.236 | 112.799 | 113 |
| 1050 | 1 | 544059.246 | 4782200.627 | 112.752 | 113 |
| 1051 | 1 | 544060.811 | 4782202.057 | 112.520 | 327 |
| 1052 | 1 | 544061.703 | 4782202.102 | 112.627 | 329 I |
| 1053 | 1 | 544061.833 | 4782201.801 | 112.619 | 329 |
| 1054 | 1 | 544061.888 | 4782201.629 | 112.594 | 313 I |
| 1055 | 1 | 544062.173 | 4782200.900 | 112.767 | 113 |
| 1056 | 1 | 544066.774 | 4782203.519 | 112.712 | 113 |
| 1057 | 1 | 544066.662 | 4782204.086 | 112.547 | 313 |
| 1058 | 1 | 544066.549 | 4782204.200 | 112.384 | 329 |
| 1059 | 1 | 544066.466 | 4782204.533 | 112.407 | 329 |
| 1060 | 1 | 544062.321 | 4782202.649 | 112.791 | 314 I |
| 1061 | 1 | 544067.000 | 4782204.973 | 112.642 | 314 |
| 1062 | 1 | 544072.860 | 4782208.020 | 112.458 | 314 |
| 1063 | 1 | 544072.748 | 4782207.742 | 112.181 | 329 |
| 1064 | 1 | 544073.003 | 4782207.481 | 112.197 | 329 |
| 1065 | 1 | 544073.085 | 4782207.381 | 112.465 | 313 |
| 1066 | 1 | 544073.396 | 4782207.022 | 112.552 | 103 |
| 1067 | 1 | 544073.405 | 4782206.048 | 112.675 | 611 |
| 1068 | 1 | 544073.840 | 4782205.176 | 112.653 | 611 |
| 1069 | 1 | 544074.223 | 4782204.646 | 112.506 | 101 |
| 1070 | 1 | 544082.285 | 4782208.780 | 112.296 | 101 |
| 1071 | 1 | 544081.864 | 4782209.372 | 112.494 | 611 |
| 1072 | 1 | 544081.391 | 4782210.251 | 112.490 | 611 |
| 1073 | 1 | 544081.224 | 4782211.015 | 112.268 | 103 |
| 1074 | 1 | 544080.873 | 4782211.524 | 112.118 | 313 |
| 1075 | 1 | 544080.740 | 4782211.624 | 111.952 | 329 |
| 1076 | 1 | 544080.509 | 4782211.915 | 111.944 | 329 |
| 1077 | 1 | 544080.667 | 4782212.193 | 112.281 | 314 |
| 1078 | 1 | 544087.951 | 4782215.970 | 112.133 | 314 |
| 1079 | 1 | 544087.846 | 4782215.722 | 111.761 | 329 |
| 1080 | 1 | 544088.201 | 4782216.064 | 111.753 | 329 |
| 1081 | 1 | 544088.467 | 4782215.675 | 111.613 | 329 |
| 1082 | 1 | 544086.976 | 4782214.169 | 112.185 | 655 |
| 1083 | 1 | 544087.854 | 4782213.668 | 112.332 | 611 |
| 1084 | 1 | 544088.303 | 4782212.798 | 112.319 | 611 |
| 1085 | 1 | 544088.751 | 4782212.214 | 112.127 | 101 |
| 1086 | 1 | 544088.857 | 4782216.333 | 112.116 | 658 |
| 1087 | 1 | 544089.197 | 4782216.845 | 112.101 | 314 I |
| 1088 | 1 | 544089.640 | 4782216.859 | 112.165 | 314 I |
| 1089 | 1 | 544089.668 | 4782216.703 | 111.673 | 329 I |
| 1090 | 1 | 544089.164 | 4782216.649 | 111.665 | 329 |
| 1091 | 1 | 544089.462 | 4782216.190 | 111.667 | 329 |
| 1092 | 1 | 544089.540 | 4782216.101 | 112.017 | 313 I |
| 1093 | 1 | 544095.708 | 4782218.962 | 111.884 | 705 |
| 1094 | 1 | 544096.848 | 4782216.498 | 111.944 | 101 |
| 1095 | 1 | 544096.484 | 4782217.083 | 112.122 | 611 |
| 1096 | 1 | 544096.107 | 4782218.017 | 112.134 | 611 |
| 1097 | 1 | 544096.945 | 4782219.925 | 111.790 | 313 |
| 1098 | 1 | 544096.930 | 4782220.037 | 111.600 | 329 |

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|--------|-------|------------|-------------|----------|------------|
| 1099 | 1 | 544096.838 | 4782220.375 | 111.567 | 329 |
| 1100 | 1 | 544096.859 | 4782220.637 | 111.879 | 314 |
| 1101 | 1 | 544099.069 | 4782220.747 | 111.475 | 329 |
| 1102 | 1 | 544098.915 | 4782220.340 | 111.518 | 329 |
| 1103 | 1 | 544099.498 | 4782220.621 | 111.496 | 329 |
| 1104 | 1 | 544098.937 | 4782220.292 | 111.799 | 313 |
| 1105 | 1 | 544099.554 | 4782220.554 | 111.788 | 313 |
| 1106 | 1 | 544100.294 | 4782221.411 | 111.759 | 313 |
| 1107 | 1 | 544100.327 | 4782221.548 | 111.469 | 329 |
| 1108 | 1 | 544100.088 | 4782221.882 | 111.451 | 329 |
| 1109 | 1 | 544100.425 | 4782222.562 | 111.735 | 314 |
| 1110 | 1 | 544102.015 | 4782223.166 | 111.381 | 329 |
| 1111 | 1 | 544102.273 | 4782222.870 | 111.389 | 329 |
| 1112 | 1 | 544102.473 | 4782222.827 | 111.444 | 313 |
| 1113 | 1 | 544102.938 | 4782222.180 | 111.808 | 103 |
| 1114 | 1 | 544103.171 | 4782221.692 | 111.977 | 611 |
| 1115 | 1 | 544103.580 | 4782220.801 | 111.950 | 611 |
| 1116 | 1 | 544103.994 | 4782220.251 | 111.726 | 101 |
| 1117 | 1 | 544105.552 | 4782223.699 | 111.709 | 103 |
| 1118 | 1 | 544105.226 | 4782224.150 | 111.572 | 313 |
| 1119 | 1 | 544105.121 | 4782224.293 | 111.394 | 329 |
| 1120 | 1 | 544105.091 | 4782224.640 | 111.373 | 329 |
| 1121 | 1 | 544107.117 | 4782226.035 | 111.575 | 314 |
| 1122 | 1 | 544107.320 | 4782225.356 | 111.177 | 329 |
| 1123 | 1 | 544107.451 | 4782225.021 | 111.193 | 329 |
| 1124 | 1 | 544107.506 | 4782224.907 | 111.552 | 313 |
| 1125 | 1 | 544107.250 | 4782226.251 | 111.924 | 314, 326 I |
| 1126 | 1 | 544107.536 | 4782225.667 | 111.893 | 326 |
| 1127 | 1 | 544107.523 | 4782225.549 | 111.597 | 103 |
| 1128 | 1 | 544112.110 | 4782227.893 | 111.582 | 103 |
| 1129 | 1 | 544112.848 | 4782228.346 | 111.935 | 326 |
| 1130 | 1 | 544112.483 | 4782228.893 | 112.046 | 326, 314 |
| 1131 | 1 | 544112.627 | 4782228.937 | 111.381 | 314 |
| 1132 | 1 | 544113.785 | 4782227.163 | 111.735 | 611 |
| 1133 | 1 | 544114.259 | 4782226.249 | 111.701 | 611 |
| 1134 | 1 | 544114.732 | 4782225.847 | 111.475 | 101 |
| 1135 | 1 | 544112.166 | 4782228.302 | 111.958 | 657 |
| 1136 | 1 | 544113.253 | 4782227.906 | 111.388 | 313 I |
| 1137 | 1 | 544118.185 | 4782231.125 | 111.578 | 654 |
| 1138 | 1 | 544114.093 | 4782228.112 | 111.517 | 113 I |
| 1139 | 1 | 544117.889 | 4782230.040 | 111.473 | 113 |
| 1140 | 1 | 544117.828 | 4782230.842 | 111.078 | 313 |
| 1141 | 1 | 544125.703 | 4782233.690 | 111.263 | 113 |
| 1142 | 1 | 544128.343 | 4782234.385 | 111.521 | 611 |
| 1143 | 1 | 544128.805 | 4782233.486 | 111.407 | 611 |
| 1144 | 1 | 544137.419 | 4782237.598 | 111.161 | 611 |
| 1145 | 1 | 544137.640 | 4782236.889 | 110.947 | 101 |
| 1146 | 1 | 544136.965 | 4782238.491 | 111.259 | 611 |
| 1147 | 1 | 544136.731 | 4782239.002 | 111.141 | 113 |
| 1148 | 1 | 544145.037 | 4782242.986 | 110.863 | 113 |
| 1149 | 1 | 544145.186 | 4782242.199 | 111.089 | 611 |
| 1150 | 1 | 544145.571 | 4782241.285 | 111.003 | 611 |
| 1151 | 1 | 544145.855 | 4782240.702 | 110.765 | 101 |
| 1152 | 1 | 544145.932 | 4782244.586 | 110.719 | 705 |
| 1153 | 1 | 544148.033 | 4782245.342 | 110.706 | 656 |
| 1154 | 1 | 544154.951 | 4782247.570 | 110.618 | 113 |
| 1155 | 1 | 544155.081 | 4782246.637 | 110.794 | 611 |
| 1156 | 1 | 544155.467 | 4782245.680 | 110.779 | 611 |
| 1157 | 1 | 544155.974 | 4782245.012 | 110.542 | 101 |
| 1158 | 1 | 544162.986 | 4782247.985 | 110.437 | 101 |
| 1159 | 1 | 544162.585 | 4782248.701 | 110.616 | 611 |

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|--------|-------|------------|-------------|----------|--------|
| 1160 | 1 | 544162.255 | 4782249.664 | 110.641 | 611 |
| 1161 | 1 | 544161.993 | 4782250.363 | 110.648 | 113 |
| 1162 | 1 | 544165.117 | 4782253.015 | 110.393 | 705 |
| 1163 | 1 | 544169.214 | 4782244.738 | 109.873 | 006 |
| 1164 | 1 | 544171.674 | 4782251.707 | 110.139 | 101 |
| 1165 | 1 | 544171.461 | 4782252.326 | 110.411 | 611 |
| 1166 | 1 | 544171.082 | 4782253.244 | 110.522 | 611 |
| 1167 | 1 | 544170.878 | 4782253.857 | 110.352 | 113 |
| 1168 | 1 | 544175.707 | 4782255.672 | 110.257 | 113 |
| 1169 | 1 | 544175.824 | 4782256.794 | 110.368 | 658 |
| 1170 | 1 | 544179.685 | 4782257.350 | 110.199 | 113 |
| 1171 | 1 | 544180.069 | 4782256.788 | 110.243 | 611 |
| 1172 | 1 | 544180.414 | 4782255.839 | 110.275 | 611 |
| 1173 | 1 | 544180.702 | 4782255.274 | 109.989 | 101 |
| 1174 | 1 | 544192.828 | 4782259.639 | 109.618 | 101 |
| 1175 | 1 | 544192.531 | 4782260.393 | 109.925 | 611 |
| 1176 | 1 | 544192.240 | 4782261.331 | 109.994 | 611 |
| 1177 | 1 | 544191.948 | 4782262.028 | 109.799 | 113 |
| 1178 | 1 | 544201.300 | 4782265.279 | 109.502 | 113 |
| 1179 | 1 | 544200.978 | 4782266.207 | 109.624 | 658 |
| 1180 | 1 | 544203.577 | 4782265.366 | 109.691 | 403 |
| 1181 | 1 | 544203.876 | 4782264.393 | 109.686 | 403 |
| 1182 | 1 | 544204.269 | 4782263.577 | 109.441 | 101 |
| 1183 | 1 | 544207.644 | 4782268.339 | 109.390 | 651 |
| 1184 | 1 | 544207.877 | 4782267.605 | 109.345 | 113 |
| 1185 | 1 | 544208.070 | 4782266.907 | 109.577 | 611 |
| 1186 | 1 | 544208.382 | 4782265.938 | 109.523 | 611 |
| 1187 | 1 | 544208.713 | 4782265.044 | 109.281 | 101 |
| 1188 | 1 | 544216.549 | 4782262.528 | 109.184 | 006 |
| 1189 | 1 | 544214.136 | 4782266.756 | 109.282 | 101 |
| 1190 | 1 | 544213.649 | 4782267.714 | 109.423 | 611 |
| 1191 | 1 | 544213.378 | 4782268.678 | 109.438 | 611 |
| 1192 | 1 | 544213.682 | 4782269.470 | 109.325 | 113 |
| 1193 | 1 | 544214.583 | 4782270.404 | 109.342 | 704 |
| 1194 | 1 | 544215.355 | 4782270.171 | 109.313 | 311 I |
| 1195 | 1 | 544215.094 | 4782271.327 | 109.338 | 311 |
| 1196 | 1 | 544213.947 | 4782270.952 | 109.361 | 311 |
| 1197 | 1 | 544214.259 | 4782269.787 | 109.356 | 311 C |
| 1198 | 1 | 544213.693 | 4782270.281 | 109.064 | 313 I |
| 1199 | 1 | 544213.564 | 4782270.375 | 108.873 | 329 I |
| 1200 | 1 | 544213.231 | 4782270.605 | 108.835 | 329 |
| 1201 | 1 | 544212.741 | 4782270.452 | 109.154 | 317 I |
| 1202 | 1 | 544213.313 | 4782270.872 | 109.103 | 317 |
| 1203 | 1 | 544214.386 | 4782272.491 | 109.024 | 317 |
| 1204 | 1 | 544214.395 | 4782272.433 | 108.812 | 329 |
| 1205 | 1 | 544214.762 | 4782272.128 | 108.810 | 329 |
| 1206 | 1 | 544214.937 | 4782272.125 | 108.846 | 313 |
| 1207 | 1 | 544220.565 | 4782274.271 | 108.542 | 329 |
| 1208 | 1 | 544220.667 | 4782273.909 | 108.596 | 329 |
| 1209 | 1 | 544220.912 | 4782273.868 | 108.769 | 313 |
| 1210 | 1 | 544220.748 | 4782274.335 | 108.829 | 317 |
| 1211 | 1 | 544226.510 | 4782276.090 | 108.600 | 317 |
| 1212 | 1 | 544226.530 | 4782277.207 | 108.454 | 317 |
| 1213 | 1 | 544227.073 | 4782276.206 | 108.310 | 329 |
| 1214 | 1 | 544227.171 | 4782275.896 | 108.274 | 329 |
| 1215 | 1 | 544227.144 | 4782275.706 | 108.372 | 313 |
| 1216 | 1 | 544228.822 | 4782275.969 | 108.257 | 313 |
| 1217 | 1 | 544229.457 | 4782275.433 | 108.899 | 658 |
| 1218 | 1 | 544229.025 | 4782275.180 | 108.541 | 102 I |
| 1219 | 1 | 544225.897 | 4782274.229 | 108.608 | 102 |
| 1220 | 1 | 544220.705 | 4782272.530 | 108.786 | 102 |

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|--------|-------|------------|-------------|----------|-------------|
| 1221 | 1 | 544215.415 | 4782270.496 | 108.944 | 102 |
| 1222 | 1 | 544216.035 | 4782270.132 | 109.194 | 113 |
| 1223 | 1 | 544216.702 | 4782269.755 | 109.327 | 611 |
| 1224 | 1 | 544217.027 | 4782268.778 | 109.324 | 611 |
| 1225 | 1 | 544217.345 | 4782268.121 | 109.178 | 101 |
| 1226 | 1 | 544225.437 | 4782270.610 | 108.888 | 101 |
| 1227 | 1 | 544225.076 | 4782271.342 | 109.087 | 611 |
| 1228 | 1 | 544224.806 | 4782272.303 | 109.140 | 611 |
| 1229 | 1 | 544224.685 | 4782272.946 | 108.985 | 113 |
| 1230 | 1 | 544234.172 | 4782275.764 | 108.740 | 113 |
| 1231 | 1 | 544234.027 | 4782275.077 | 108.941 | 611 |
| 1232 | 1 | 544234.287 | 4782274.122 | 108.936 | 611 |
| 1233 | 1 | 544234.761 | 4782273.460 | 108.690 | 101 |
| 1234 | 1 | 544242.427 | 4782275.719 | 108.574 | 101 |
| 1235 | 1 | 544242.270 | 4782276.450 | 108.773 | 611 |
| 1236 | 1 | 544242.043 | 4782277.424 | 108.801 | 611 |
| 1237 | 1 | 544241.860 | 4782278.104 | 108.636 | 113 |
| 1238 | 1 | 544244.228 | 4782279.413 | 108.196 | 655 |
| 1239 | 1 | 544244.996 | 4782276.059 | 108.324 | 102 I |
| 1240 | 1 | 544244.995 | 4782275.266 | 108.589 | 101 |
| 1241 | 1 | 544244.936 | 4782274.711 | 108.748 | 611 |
| 1242 | 1 | 544245.206 | 4782273.753 | 108.723 | 611 |
| 1243 | 1 | 544245.289 | 4782272.718 | 108.323 | 655 |
| 1244 | 1 | 544246.452 | 4782272.671 | 108.442 | 816 I |
| 1245 | 1 | 544246.800 | 4782272.329 | 108.420 | 317 I |
| 1246 | 1 | 544251.480 | 4782273.905 | 108.155 | 500 |
| 1247 | 1 | 544254.621 | 4782274.312 | 108.140 | 317 |
| 1248 | 1 | 544254.758 | 4782274.748 | 108.152 | 816 |
| 1249 | 1 | 544254.689 | 4782274.792 | 107.934 | 102 I |
| 1250 | 1 | 544254.349 | 4782275.768 | 108.328 | 101 I |
| 1251 | 1 | 544253.919 | 4782276.131 | 108.504 | 611 |
| 1252 | 1 | 544253.699 | 4782277.108 | 108.561 | 611 |
| 1253 | 1 | 544253.455 | 4782277.691 | 108.369 | 113 I |
| 1254 | 1 | 544253.465 | 4782278.321 | 108.072 | 114 |
| 1255 | 1 | 544257.070 | 4782275.961 | 108.085 | 655 |
| 1256 | 1 | 544259.064 | 4782276.141 | 108.098 | 816 |
| 1257 | 1 | 544259.367 | 4782276.313 | 108.142 | 101,102 |
| 1258 | 1 | 544260.062 | 4782276.601 | 108.173 | 816 |
| 1259 | 1 | 544261.078 | 4782276.852 | 108.136 | 816 |
| 1260 | 1 | 544260.495 | 4782275.861 | 108.151 | 658 |
| 1261 | 1 | 544260.152 | 4782275.861 | 108.149 | 317 |
| 1262 | 1 | 544260.323 | 4782275.229 | 108.189 | 317 |
| 1263 | 1 | 544261.329 | 4782275.482 | 108.136 | 317 |
| 1264 | 1 | 544261.184 | 4782276.103 | 108.097 | 317 |
| 1265 | 1 | 544261.198 | 4782276.963 | 108.065 | 102 I,101 I |
| 1266 | 1 | 544263.137 | 4782276.856 | 108.125 | 816 |
| 1267 | 1 | 544263.102 | 4782276.944 | 107.797 | 102 |
| 1268 | 1 | 544263.044 | 4782277.609 | 108.123 | 101 |
| 1269 | 1 | 544263.202 | 4782278.525 | 108.329 | 611 |
| 1270 | 1 | 544263.066 | 4782279.528 | 108.316 | 611 |
| 1271 | 1 | 544263.029 | 4782280.080 | 108.139 | 113 |
| 1272 | 1 | 544262.970 | 4782280.590 | 107.809 | 114 |
| 1273 | 1 | 544269.177 | 4782282.103 | 107.716 | 114 |
| 1274 | 1 | 544269.401 | 4782281.598 | 107.947 | 113 |
| 1275 | 1 | 544269.428 | 4782281.092 | 108.173 | 611 |
| 1276 | 1 | 544269.665 | 4782280.132 | 108.157 | 611 |
| 1277 | 1 | 544269.906 | 4782279.526 | 107.964 | 101 |
| 1278 | 1 | 544269.832 | 4782278.640 | 107.773 | 102 |
| 1279 | 1 | 544266.881 | 4782277.275 | 107.994 | 657 |
| 1280 | 1 | 544267.897 | 4782277.636 | 107.573 | 101 I |
| 1281 | 1 | 544271.694 | 4782278.531 | 107.748 | 101 I |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|---------|
| 1282 | 1 | 544271.917 | 4782279.062 | 108.077 | 816 |
| 1283 | 1 | 544273.244 | 4782279.563 | 107.674 | 102 |
| 1284 | 1 | 544273.018 | 4782280.309 | 107.903 | 101 |
| 1285 | 1 | 544273.190 | 4782280.952 | 108.128 | 611 |
| 1286 | 1 | 544272.976 | 4782281.928 | 108.143 | 611 |
| 1287 | 1 | 544272.854 | 4782282.467 | 107.940 | 113 |
| 1288 | 1 | 544272.700 | 4782283.065 | 107.584 | 114 |
| 1289 | 1 | 544278.359 | 4782284.508 | 107.461 | 114 |
| 1290 | 1 | 544278.601 | 4782283.841 | 107.833 | 113 |
| 1291 | 1 | 544278.730 | 4782283.283 | 108.031 | 611 |
| 1292 | 1 | 544278.935 | 4782282.322 | 107.985 | 611 |
| 1293 | 1 | 544279.208 | 4782281.601 | 107.818 | 101 |
| 1294 | 1 | 544279.203 | 4782281.234 | 107.658 | 102 |
| 1295 | 1 | 544278.757 | 4782280.987 | 107.985 | 816 |
| 1296 | 1 | 544279.078 | 4782280.608 | 107.671 | 101 |
| 1297 | 1 | 544281.799 | 4782281.360 | 107.626 | 101 |
| 1298 | 1 | 544281.663 | 4782281.792 | 107.882 | 816 |
| 1299 | 1 | 544285.651 | 4782282.257 | 107.848 | 816 |
| 1300 | 1 | 544285.782 | 4782281.857 | 107.658 | 101 |
| 1301 | 1 | 544287.463 | 4782283.247 | 107.698 | 816 |
| 1302 | 1 | 544287.436 | 4782283.316 | 107.581 | 101,102 |
| 1303 | 1 | 544287.022 | 4782284.176 | 107.795 | 611 |
| 1304 | 1 | 544286.840 | 4782285.177 | 107.817 | 611 |
| 1305 | 1 | 544286.693 | 4782285.804 | 107.599 | 113 |
| 1306 | 1 | 544286.678 | 4782286.402 | 107.390 | 114 |
| 1307 | 1 | 544294.134 | 4782288.184 | 107.258 | 114 |
| 1308 | 1 | 544294.293 | 4782287.615 | 107.608 | 113 |
| 1309 | 1 | 544294.434 | 4782286.874 | 107.665 | 611 |
| 1310 | 1 | 544294.581 | 4782285.906 | 107.662 | 611 |
| 1311 | 1 | 544289.500 | 4782283.882 | 107.690 | 311 I |
| 1312 | 1 | 544295.516 | 4782285.321 | 107.587 | 311 |
| 1313 | 1 | 544297.373 | 4782285.546 | 107.517 | 311 |
| 1314 | 1 | 544297.617 | 4782285.163 | 107.456 | 816 |
| 1315 | 1 | 544300.957 | 4782285.964 | 107.285 | 816 |
| 1316 | 1 | 544301.256 | 4782285.574 | 107.146 | 317 I |
| 1317 | 1 | 544302.110 | 4782283.463 | 106.766 | 704 |
| 1318 | 1 | 544301.727 | 4782282.155 | 106.540 | 317 |
| 1319 | 1 | 544302.885 | 4782284.159 | 106.957 | 326 I |
| 1320 | 1 | 544303.490 | 4782284.282 | 106.924 | 326 |
| 1321 | 1 | 544303.711 | 4782283.080 | 106.827 | 326 |
| 1322 | 1 | 544303.097 | 4782282.956 | 106.873 | 326 |
| 1323 | 1 | 544301.396 | 4782284.831 | 107.065 | 101 I |
| 1324 | 1 | 544304.181 | 4782285.851 | 107.183 | 000 |
| 1325 | 1 | 544305.880 | 4782285.977 | 106.921 | 101 |
| 1326 | 1 | 544306.184 | 4782286.803 | 107.364 | 655 |
| 1327 | 1 | 544306.779 | 4782287.278 | 107.219 | 816 |
| 1328 | 1 | 544306.968 | 4782286.644 | 106.854 | 651 |
| 1329 | 1 | 544304.655 | 4782288.140 | 107.485 | 611 |
| 1330 | 1 | 544304.437 | 4782289.122 | 107.450 | 611 |
| 1331 | 1 | 544304.570 | 4782289.935 | 107.309 | 113 |
| 1332 | 1 | 544304.617 | 4782291.420 | 106.966 | 114 |
| 1333 | 1 | 544297.948 | 4782294.627 | 106.995 | 102 |
| 1334 | 1 | 544297.974 | 4782293.771 | 107.356 | 101 |
| 1335 | 1 | 544298.056 | 4782293.147 | 107.559 | 611 |
| 1336 | 1 | 544298.270 | 4782292.187 | 107.550 | 611 |
| 1337 | 1 | 544298.406 | 4782291.511 | 107.394 | 113 |
| 1338 | 1 | 544298.254 | 4782290.690 | 107.176 | 114 |
| 1339 | 1 | 544288.525 | 4782288.251 | 107.349 | 114 |
| 1340 | 1 | 544288.188 | 4782288.675 | 107.607 | 113 |
| 1341 | 1 | 544287.916 | 4782289.295 | 107.779 | 611 |
| 1342 | 1 | 544287.688 | 4782290.278 | 107.722 | 611 |

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|--------|-------|------------|-------------|----------|-----------|
| 1343 | 1 | 544287.382 | 4782290.789 | 107.610 | 101 |
| 1344 | 1 | 544286.843 | 4782291.729 | 107.096 | 102 |
| 1345 | 1 | 544285.608 | 4782291.205 | 107.553 | 658 |
| 1346 | 1 | 544277.934 | 4782289.015 | 107.281 | 102 |
| 1347 | 1 | 544277.875 | 4782288.251 | 107.831 | 101 |
| 1348 | 1 | 544277.842 | 4782287.523 | 107.959 | 611 |
| 1349 | 1 | 544278.082 | 4782286.555 | 107.981 | 611 |
| 1350 | 1 | 544278.163 | 4782285.855 | 107.816 | 113 |
| 1351 | 1 | 544268.814 | 4782283.224 | 108.292 | 113 |
| 1352 | 1 | 544268.274 | 4782283.818 | 108.146 | 611 |
| 1353 | 1 | 544268.027 | 4782284.771 | 108.220 | 611 |
| 1354 | 1 | 544267.462 | 4782285.269 | 108.037 | 101 |
| 1355 | 1 | 544267.035 | 4782286.169 | 107.594 | 102 |
| 1356 | 1 | 544265.719 | 4782286.130 | 107.522 | 102 |
| 1357 | 1 | 544264.652 | 4782285.716 | 108.078 | 657 |
| 1358 | 1 | 544264.621 | 4782285.019 | 108.086 | 326 I |
| 1359 | 1 | 544265.884 | 4782285.335 | 108.036 | 326 |
| 1360 | 1 | 544265.517 | 4782286.643 | 108.074 | 326 |
| 1361 | 1 | 544264.461 | 4782285.559 | 107.602 | 102 I |
| 1362 | 1 | 544259.372 | 4782284.277 | 107.660 | 102 |
| 1363 | 1 | 544259.903 | 4782283.333 | 108.192 | 101 |
| 1364 | 1 | 544260.488 | 4782282.663 | 108.377 | 611 |
| 1365 | 1 | 544260.716 | 4782281.693 | 108.338 | 611 |
| 1366 | 1 | 544260.793 | 4782281.096 | 108.168 | 113 |
| 1367 | 1 | 544258.547 | 4782283.824 | 108.184 | 658 |
| 1368 | 1 | 544257.705 | 4782283.693 | 108.304 | 704 |
| 1369 | 1 | 544257.206 | 4782283.590 | 107.881 | 102 I |
| 1370 | 1 | 544256.264 | 4782282.281 | 108.535 | 101 |
| 1371 | 1 | 544255.568 | 4782282.709 | 108.259 | 655 |
| 1372 | 1 | 544256.563 | 4782281.523 | 108.762 | 611 |
| 1373 | 1 | 544256.789 | 4782280.570 | 108.764 | 611 |
| 1374 | 1 | 544256.972 | 4782280.033 | 108.606 | 113 |
| 1375 | 1 | 544251.096 | 4782278.224 | 108.688 | 113 |
| 1376 | 1 | 544251.056 | 4782278.956 | 108.909 | 611 |
| 1377 | 1 | 544250.814 | 4782279.927 | 108.903 | 611 |
| 1378 | 1 | 544250.383 | 4782280.519 | 108.710 | 101 |
| 1379 | 1 | 544250.044 | 4782281.452 | 108.306 | 102 |
| 1380 | 1 | 544249.376 | 4782281.097 | 108.353 | 500 |
| 1381 | 1 | 543600.979 | 4781979.921 | 114.000 | 006 |
| 1382 | 1 | 543629.512 | 4781983.872 | 121.059 | Insertado |
| 1383 | 1 | 543635.502 | 4781950.689 | 111.178 | 006 |
| 1384 | 1 | 543632.688 | 4781943.576 | 111.076 | 006 |
| 1385 | 1 | 543679.590 | 4782036.411 | 134.408 | 006 |
| 1386 | 1 | 543658.947 | 4782011.817 | 133.271 | 807 |
| 1387 | 1 | 543658.622 | 4782012.645 | 133.224 | 705 |
| 1388 | 1 | 543659.145 | 4782012.950 | 133.103 | 705 |
| 1389 | 1 | 543660.876 | 4782014.140 | 132.861 | 806 |
| 1390 | 1 | 543660.421 | 4782014.318 | 132.809 | 811 |
| 1391 | 1 | 543656.020 | 4782015.853 | 133.253 | 607 I |
| 1392 | 1 | 543668.664 | 4782021.644 | 133.153 | 605 I |
| 1393 | 1 | 543668.816 | 4782021.903 | 133.230 | 327 I |
| 1394 | 1 | 543672.284 | 4782019.781 | 132.824 | 327 |
| 1395 | 1 | 543672.111 | 4782019.549 | 132.704 | 605 |
| 1396 | 1 | 543674.500 | 4782017.320 | 132.389 | 605 |
| 1397 | 1 | 543674.262 | 4782017.896 | 132.527 | 327 |
| 1398 | 1 | 543673.749 | 4782023.764 | 133.302 | 327 |
| 1399 | 1 | 543673.986 | 4782023.901 | 133.254 | 605 |
| 1400 | 1 | 543675.219 | 4782020.886 | 132.844 | 563 I |
| 1401 | 1 | 543675.728 | 4782013.970 | 132.010 | 563 |
| 1402 | 1 | 543672.902 | 4782017.529 | 132.446 | 563 |
| 1403 | 1 | 543669.571 | 4782020.097 | 132.917 | 563 |

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|--------|-------|------------|-------------|----------|-----------|
| 1404 | 1 | 543669.788 | 4782019.723 | 132.858 | 560 I |
| 1405 | 1 | 543667.444 | 4782016.036 | 132.535 | 560 |
| 1406 | 1 | 543669.676 | 4782014.366 | 132.177 | 560 |
| 1407 | 1 | 543674.302 | 4782020.912 | 132.844 | 560 I |
| 1408 | 1 | 543680.625 | 4782021.297 | 132.865 | 560 |
| 1409 | 1 | 543680.379 | 4782024.196 | 133.165 | 560 |
| 1410 | 1 | 543680.650 | 4782023.750 | 133.103 | 607 I |
| 1411 | 1 | 543687.350 | 4782023.394 | 133.337 | 607 |
| 1412 | 1 | 543689.630 | 4782023.627 | 133.420 | 607 |
| 1413 | 1 | 543691.484 | 4782025.660 | 133.546 | 607 |
| 1414 | 1 | 543694.198 | 4782024.780 | 133.435 | 103 |
| 1415 | 1 | 543696.855 | 4782029.101 | 133.412 | 331 I |
| 1416 | 1 | 543698.617 | 4782027.022 | 133.277 | 331 |
| 1417 | 1 | 543699.432 | 4782025.159 | 133.248 | 331 |
| 1418 | 1 | 543699.048 | 4782023.127 | 133.195 | 331 |
| 1419 | 1 | 543696.542 | 4782020.247 | 133.144 | 331 |
| 1420 | 1 | 543691.231 | 4782018.087 | 133.004 | 331 I |
| 1421 | 1 | 543689.800 | 4782019.294 | 133.050 | 311 I |
| 1422 | 1 | 543679.717 | 4782021.116 | 132.849 | 563 |
| 1423 | 1 | 543680.740 | 4782021.340 | 132.867 | 605,607 I |
| 1424 | 1 | 543686.497 | 4782021.376 | 133.175 | 607 |
| 1425 | 1 | 543689.673 | 4782020.081 | 133.102 | 607 |
| 1426 | 1 | 543698.408 | 4782025.409 | 133.307 | 401 |
| 1427 | 1 | 543697.772 | 4782022.483 | 133.207 | 401 |
| 1428 | 1 | 543694.675 | 4782020.501 | 133.161 | 401 |
| 1429 | 1 | 543698.942 | 4782023.682 | 133.224 | 402 |
| 1430 | 1 | 543688.192 | 4782018.432 | 133.027 | 110 |
| 1431 | 1 | 543666.764 | 4782012.945 | 132.065 | 609 I |
| 1432 | 1 | 543667.271 | 4782012.213 | 131.946 | 501 |
| 1433 | 1 | 543667.792 | 4782011.004 | 131.939 | 704 |
| 1434 | 1 | 543670.257 | 4782011.128 | 131.696 | 609 |
| 1435 | 1 | 543670.509 | 4782010.186 | 131.433 | 331 I |
| 1436 | 1 | 543670.848 | 4782010.274 | 131.544 | 311 I |
| 1437 | 1 | 543670.384 | 4782013.679 | 132.044 | 563 |
| 1438 | 1 | 543705.193 | 4782024.684 | 130.570 | 103 |
| 1439 | 1 | 543712.917 | 4782015.634 | 127.086 | 101 I |
| 1440 | 1 | 543705.298 | 4782017.924 | 129.341 | 103 |
| 1441 | 1 | 543701.793 | 4782014.825 | 129.318 | 103 |
| 1442 | 1 | 543702.244 | 4782010.744 | 127.653 | 101 |
| 1443 | 1 | 543696.195 | 4782009.152 | 127.043 | 101 |
| 1444 | 1 | 543688.834 | 4782009.111 | 127.390 | 101 |
| 1445 | 1 | 543689.756 | 4782013.496 | 129.499 | 313 I |
| 1446 | 1 | 543691.274 | 4782017.462 | 131.389 | 313 |
| 1447 | 1 | 543667.920 | 4782005.390 | 128.575 | 103 |
| 1448 | 1 | 543673.569 | 4782003.445 | 126.619 | 101 I |
| 1449 | 1 | 543668.043 | 4782001.850 | 127.284 | 101 |
| 1450 | 1 | 543662.712 | 4782002.584 | 129.347 | 101 |
| 1451 | 1 | 543657.984 | 4782002.646 | 130.967 | 101 |
| 1452 | 1 | 543658.200 | 4782006.286 | 132.192 | 103 |
| 1453 | 1 | 543671.374 | 4782007.214 | 128.956 | 313 I |
| 1454 | 1 | 543670.317 | 4782009.901 | 131.119 | 313 |
| 1455 | 1 | 543664.316 | 4782011.513 | 132.105 | 311 I |
| 1456 | 1 | 543660.373 | 4782011.427 | 132.761 | 311 |
| 1457 | 1 | 543652.289 | 4781953.793 | 111.142 | 006 |
| 1458 | 1 | 543881.070 | 4782084.493 | 112.726 | Insertado |
| 1459 | 1 | 543877.888 | 4782081.512 | 112.826 | Insertado |
| 1460 | 1 | 543501.244 | 4781937.603 | 125.856 | 006 |
| 1461 | 1 | 543722.504 | 4781991.044 | 121.777 | 006 |
| 1462 | 1 | 543720.338 | 4781992.068 | 119.232 | 816 |
| 1463 | 1 | 543721.691 | 4781993.222 | 119.663 | 705 |
| 1464 | 1 | 543714.769 | 4781990.339 | 119.580 | 101 |

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| 1465 | 1 | 543710.636 | 4781987.858 | 119.390 | 102 |
| 1466 | 1 | 543726.918 | 4781996.273 | 119.596 | 101 |
| 1467 | 1 | 543709.357 | 4781989.777 | 119.870 | 605 |
| 1468 | 1 | 543694.676 | 4781984.021 | 119.969 | 605 |
| 1469 | 1 | 543694.752 | 4781982.941 | 119.977 | 611 |
| 1470 | 1 | 543694.908 | 4781982.278 | 119.728 | 101 |
| 1471 | 1 | 543743.358 | 4782005.331 | 119.352 | 102 |
| 1472 | 1 | 543743.205 | 4782005.200 | 119.348 | 816 |
| 1473 | 1 | 543684.466 | 4781978.874 | 119.811 | 101 |
| 1474 | 1 | 543684.063 | 4781979.477 | 120.052 | 611 |
| 1475 | 1 | 543683.833 | 4781980.483 | 120.052 | 605 |
| 1476 | 1 | 543755.785 | 4782013.715 | 119.658 | 101 |
| 1477 | 1 | 543668.330 | 4781975.328 | 120.147 | 611 |
| 1478 | 1 | 543756.559 | 4782013.790 | 119.680 | 102,102 |
| 1479 | 1 | 543763.671 | 4782018.516 | 119.739 | 816 |
| 1480 | 1 | 543763.886 | 4782018.216 | 119.742 | 816 |
| 1481 | 1 | 543770.743 | 4782023.118 | 119.711 | 816 |
| 1482 | 1 | 543770.666 | 4782023.173 | 119.691 | 103 |
| 1483 | 1 | 543642.424 | 4781971.806 | 120.206 | 605 |
| 1484 | 1 | 543771.809 | 4782023.833 | 119.661 | 101 I,102 I |
| 1485 | 1 | 543642.860 | 4781970.167 | 120.020 | 101 |
| 1486 | 1 | 543643.032 | 4781969.598 | 119.836 | 102 |
| 1487 | 1 | 543776.111 | 4782026.423 | 119.630 | 655 |
| 1488 | 1 | 543645.138 | 4781969.118 | 120.242 | 408 |
| 1489 | 1 | 543774.455 | 4782024.586 | 120.037 | 816 |
| 1490 | 1 | 543654.249 | 4781971.382 | 119.658 | 311 |
| 1491 | 1 | 543782.346 | 4782029.678 | 120.114 | 816 |
| 1492 | 1 | 543655.965 | 4781971.184 | 119.922 | 809 |
| 1493 | 1 | 543656.596 | 4781971.560 | 119.620 | 651 |
| 1494 | 1 | 543784.616 | 4782032.387 | 120.135 | 816 |
| 1495 | 1 | 543784.529 | 4782032.687 | 120.153 | 816 |
| 1496 | 1 | 543661.925 | 4781972.549 | 119.571 | 311 |
| 1497 | 1 | 543662.569 | 4781972.192 | 119.900 | 313 |
| 1498 | 1 | 543783.956 | 4782036.435 | 119.927 | 816 |
| 1499 | 1 | 543784.762 | 4782037.146 | 119.812 | 816 |
| 1500 | 1 | 543786.170 | 4782038.084 | 119.613 | 816 |
| 1501 | 1 | 543674.806 | 4781975.646 | 120.766 | 309 |
| 1502 | 1 | 543676.397 | 4781976.011 | 119.733 | 309 |
| 1503 | 1 | 543792.949 | 4782041.800 | 119.503 | 006 |
| 1504 | 1 | 543786.672 | 4782037.656 | 119.608 | 314 I |
| 1505 | 1 | 543786.684 | 4782037.335 | 119.614 | 317 I |
| 1506 | 1 | 543793.165 | 4782041.390 | 119.477 | 317 |
| 1507 | 1 | 543793.013 | 4782041.618 | 119.483 | 314 |
| 1508 | 1 | 543693.685 | 4781980.716 | 119.345 | 651 |
| 1509 | 1 | 543801.349 | 4782047.630 | 119.302 | 816 |
| 1510 | 1 | 543701.695 | 4781981.802 | 119.462 | 313 |
| 1511 | 1 | 543801.693 | 4782046.703 | 119.304 | 317 |
| 1512 | 1 | 543805.357 | 4782050.503 | 118.950 | 655 |
| 1513 | 1 | 543810.244 | 4782053.077 | 119.133 | 502 |
| 1514 | 1 | 543711.050 | 4781987.398 | 119.364 | 651 |
| 1515 | 1 | 543711.619 | 4781987.694 | 119.341 | 651 |
| 1516 | 1 | 543810.351 | 4782052.108 | 119.137 | 317 |
| 1517 | 1 | 543818.589 | 4782057.284 | 119.003 | 317 |
| 1518 | 1 | 543818.485 | 4782057.577 | 118.988 | 314 |
| 1519 | 1 | 543719.432 | 4781989.647 | 119.986 | 409 |
| 1520 | 1 | 543720.269 | 4781989.711 | 120.419 | 658 |
| 1521 | 1 | 543722.023 | 4781990.164 | 120.185 | 313 |
| 1522 | 1 | 543721.138 | 4781991.976 | 119.226 | 311 |
| 1523 | 1 | 543824.790 | 4782061.488 | 118.876 | 314 |
| 1524 | 1 | 543714.231 | 4781993.709 | 119.536 | 103 |
| 1525 | 1 | 543824.466 | 4782062.043 | 118.856 | 816 |

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| 1526 | 1 | 543716.732 | 4781997.836 | 119.996 | 611 I |
| 1527 | 1 | 543716.496 | 4781998.867 | 119.997 | 605 I |
| 1528 | 1 | 543713.959 | 4781995.330 | 119.955 | 651 |
| 1529 | 1 | 543710.052 | 4781992.535 | 119.927 | 658 |
| 1530 | 1 | 543823.238 | 4782064.806 | 118.613 | 102 I |
| 1531 | 1 | 543816.760 | 4782061.108 | 118.690 | 102 |
| 1532 | 1 | 543817.061 | 4782060.676 | 118.911 | 101 |
| 1533 | 1 | 543817.536 | 4782060.313 | 119.084 | 611 |
| 1534 | 1 | 543818.038 | 4782059.415 | 119.061 | 611 |
| 1535 | 1 | 543818.686 | 4782058.528 | 118.706 | 103 |
| 1536 | 1 | 543814.483 | 4782056.394 | 118.895 | 113 I |
| 1537 | 1 | 543814.691 | 4782056.149 | 118.760 | 114 I |
| 1538 | 1 | 543807.705 | 4782051.737 | 118.808 | 114 |
| 1539 | 1 | 543675.749 | 4781984.382 | 120.163 | 605 |
| 1540 | 1 | 543675.581 | 4781980.673 | 119.953 | 658 |
| 1541 | 1 | 543673.348 | 4781979.847 | 120.139 | 809 |
| 1542 | 1 | 543806.163 | 4782054.041 | 119.009 | 101 |
| 1543 | 1 | 543660.695 | 4781976.105 | 120.046 | 500 |
| 1544 | 1 | 543657.063 | 4781975.877 | 120.031 | 804 |
| 1545 | 1 | 543798.805 | 4782049.508 | 119.076 | 101 |
| 1546 | 1 | 543653.472 | 4781977.192 | 120.190 | 605 |
| 1547 | 1 | 543608.301 | 4781974.718 | 120.069 | 315 I |
| 1548 | 1 | 543801.587 | 4782048.186 | 119.051 | 113,114 |
| 1549 | 1 | 543609.619 | 4781977.524 | 120.528 | 315 |
| 1550 | 1 | 543609.756 | 4781977.688 | 120.644 | 315,317 I |
| 1551 | 1 | 543609.652 | 4781975.023 | 120.086 | 327 I |
| 1552 | 1 | 543618.201 | 4781977.843 | 119.997 | 327 |
| 1553 | 1 | 543619.680 | 4781978.377 | 120.003 | 327,102 I |
| 1554 | 1 | 543618.874 | 4781979.990 | 120.652 | 814 |
| 1555 | 1 | 543618.640 | 4781980.303 | 120.539 | 317 |
| 1556 | 1 | 543624.394 | 4781980.398 | 119.806 | 102 |
| 1557 | 1 | 543630.818 | 4781982.805 | 120.081 | 815 |
| 1558 | 1 | 543631.973 | 4781982.323 | 120.090 | 651 |
| 1559 | 1 | 543641.375 | 4781986.380 | 120.283 | 313 I |
| 1560 | 1 | 543651.770 | 4781989.444 | 119.809 | 313 |
| 1561 | 1 | 543661.504 | 4781992.063 | 120.101 | 313 |
| 1562 | 1 | 543667.206 | 4781993.356 | 119.969 | 815 |
| 1563 | 1 | 543783.485 | 4782034.316 | 119.380 | 103 |
| 1564 | 1 | 543782.312 | 4782033.609 | 119.345 | 103 |
| 1565 | 1 | 543676.360 | 4781989.444 | 119.908 | 805 |
| 1566 | 1 | 543677.249 | 4781990.425 | 119.843 | 412 |
| 1567 | 1 | 543775.588 | 4782030.492 | 119.056 | 102 |
| 1568 | 1 | 543679.594 | 4781990.712 | 119.767 | 661 |
| 1569 | 1 | 543776.272 | 4782036.001 | 119.204 | 661 |
| 1570 | 1 | 543683.035 | 4781997.942 | 120.072 | 313 |
| 1571 | 1 | 543777.708 | 4782034.155 | 119.425 | 611 |
| 1572 | 1 | 543691.565 | 4781995.355 | 119.960 | 658 |
| 1573 | 1 | 543692.690 | 4782000.391 | 120.531 | 313,102 I |
| 1574 | 1 | 543698.350 | 4782001.485 | 120.340 | 102 |
| 1575 | 1 | 543701.480 | 4781997.778 | 119.651 | 651 |
| 1576 | 1 | 543768.354 | 4782031.537 | 119.500 | 611 |
| 1577 | 1 | 543708.914 | 4782001.743 | 119.844 | 654 |
| 1578 | 1 | 543765.371 | 4782024.285 | 119.216 | 102 |
| 1579 | 1 | 543713.015 | 4782006.972 | 120.028 | 102 |
| 1580 | 1 | 543718.858 | 4782005.986 | 119.707 | 657 |
| 1581 | 1 | 543719.996 | 4782011.625 | 120.175 | 102 |
| 1582 | 1 | 543761.036 | 4782021.349 | 119.421 | 658 |
| 1583 | 1 | 543759.574 | 4782020.510 | 119.280 | 102 I |
| 1584 | 1 | 543758.743 | 4782022.166 | 119.540 | 611 I |
| 1585 | 1 | 543744.062 | 4782025.650 | 119.159 | 317 |
| 1586 | 1 | 543753.928 | 4782020.788 | 119.567 | 660 |

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|--------|-------|------------|-------------|----------|-----------|
| 1587 | 1 | 543753.324 | 4782021.784 | 119.522 | 660 |
| 1588 | 1 | 543752.911 | 4782019.646 | 119.606 | 403 |
| 1589 | 1 | 543753.921 | 4782018.140 | 119.480 | 101 |
| 1590 | 1 | 543760.234 | 4782035.944 | 119.031 | 806 |
| 1591 | 1 | 543748.405 | 4782014.622 | 119.507 | 101 |
| 1592 | 1 | 543747.762 | 4782012.977 | 119.287 | 658 |
| 1593 | 1 | 543749.689 | 4782007.994 | 119.956 | 313 |
| 1594 | 1 | 543741.229 | 4782011.079 | 119.760 | 611 |
| 1595 | 1 | 543739.410 | 4782000.743 | 120.996 | 300 |
| 1596 | 1 | 543738.516 | 4782005.758 | 119.697 | 103 |
| 1597 | 1 | 543741.097 | 4782007.366 | 119.732 | 101 I |
| 1598 | 1 | 543748.478 | 4782011.860 | 119.706 | 101 |
| 1599 | 1 | 543732.008 | 4781995.677 | 120.013 | 300 |
| 1600 | 1 | 543729.893 | 4781994.390 | 120.049 | 300,313 I |
| 1601 | 1 | 543770.179 | 4782025.358 | 119.729 | 101 |
| 1602 | 1 | 543776.212 | 4782029.242 | 119.741 | 101 |
| 1603 | 1 | 543780.352 | 4782031.874 | 119.766 | 101 |
| 1604 | 1 | 543715.704 | 4781999.331 | 119.757 | 103 |
| 1605 | 1 | 543716.201 | 4782002.395 | 119.974 | 605 I |
| 1606 | 1 | 543781.890 | 4782034.288 | 119.793 | 311 |
| 1607 | 1 | 543716.151 | 4782003.526 | 119.593 | 102 I |
| 1608 | 1 | 543705.684 | 4781998.871 | 119.747 | 102 |
| 1609 | 1 | 543783.332 | 4782032.998 | 119.667 | 654 |
| 1610 | 1 | 543784.600 | 4782036.082 | 119.669 | 658 |
| 1611 | 1 | 543786.786 | 4782037.441 | 119.630 | 314 I |
| 1612 | 1 | 543786.599 | 4782037.354 | 119.647 | 314 |
| 1613 | 1 | 543788.572 | 4782033.632 | 120.075 | 314 |
| 1614 | 1 | 543788.623 | 4782033.649 | 120.062 | 317 I |
| 1615 | 1 | 543786.756 | 4782033.496 | 119.998 | 705 |
| 1616 | 1 | 543689.706 | 4781993.600 | 119.707 | 102 |
| 1617 | 1 | 543680.196 | 4781990.622 | 119.736 | 102 |
| 1618 | 1 | 543785.740 | 4782034.169 | 120.028 | 326 |
| 1619 | 1 | 543785.317 | 4782034.213 | 120.227 | 326 I |
| 1620 | 1 | 543784.370 | 4782033.659 | 120.286 | 326 |
| 1621 | 1 | 543784.930 | 4782032.763 | 120.285 | 326 |
| 1622 | 1 | 543784.775 | 4782030.868 | 120.053 | 314 |
| 1623 | 1 | 543784.797 | 4782030.807 | 120.049 | 317 |
| 1624 | 1 | 543779.634 | 4782027.334 | 120.046 | 317 |
| 1625 | 1 | 543673.137 | 4781985.924 | 120.166 | 611 |
| 1626 | 1 | 543781.407 | 4782030.918 | 120.003 | 611 I |
| 1627 | 1 | 543665.255 | 4781987.162 | 119.639 | 102 |
| 1628 | 1 | 543665.183 | 4781985.856 | 120.170 | 605 |
| 1629 | 1 | 543663.620 | 4781984.529 | 120.191 | 611 I |
| 1630 | 1 | 543667.132 | 4781985.073 | 120.172 | 611 |
| 1631 | 1 | 543661.387 | 4781983.286 | 120.197 | 611 |
| 1632 | 1 | 543782.851 | 4782030.241 | 121.010 | 326 |
| 1633 | 1 | 543783.899 | 4782030.886 | 120.269 | 326 |
| 1634 | 1 | 543781.946 | 4782034.049 | 120.249 | 326 |
| 1635 | 1 | 543773.520 | 4782027.012 | 119.944 | 611 |
| 1636 | 1 | 543774.106 | 4782026.224 | 119.968 | 611 |
| 1637 | 1 | 543674.917 | 4781986.753 | 120.161 | 611 |
| 1638 | 1 | 543776.289 | 4782025.139 | 120.052 | 317 |
| 1639 | 1 | 543771.076 | 4782021.737 | 120.073 | 314 |
| 1640 | 1 | 543771.343 | 4782021.298 | 120.058 | 314 |
| 1641 | 1 | 543769.634 | 4782021.674 | 119.028 | 309 |
| 1642 | 1 | 543719.949 | 4781984.801 | 123.638 | 300 |
| 1643 | 1 | 543719.456 | 4781985.418 | 123.522 | 300 |
| 1644 | 1 | 543718.658 | 4781984.801 | 123.596 | 300 |
| 1645 | 1 | 543718.143 | 4781985.388 | 123.512 | 300 |
| 1646 | 1 | 543765.988 | 4782018.313 | 119.051 | 317 |
| 1647 | 1 | 543761.299 | 4782015.271 | 119.063 | 317 |

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|--------|-------|------------|-------------|----------|-----------|
| 1648 | 1 | 543760.862 | 4782015.916 | 119.034 | 313 |
| 1649 | 1 | 543714.828 | 4782011.160 | 124.602 | 101 |
| 1650 | 1 | 543761.070 | 4782015.354 | 119.066 | 313 |
| 1651 | 1 | 543726.427 | 4782017.087 | 122.907 | 101 |
| 1652 | 1 | 543733.561 | 4782022.622 | 124.467 | 300 I |
| 1653 | 1 | 543734.685 | 4782020.980 | 124.355 | 300 |
| 1654 | 1 | 543757.941 | 4782017.015 | 119.907 | 611 |
| 1655 | 1 | 543750.490 | 4782011.016 | 119.882 | 611 |
| 1656 | 1 | 543740.774 | 4782006.091 | 119.882 | 611 |
| 1657 | 1 | 543741.161 | 4782005.141 | 119.850 | 611 |
| 1658 | 1 | 543731.598 | 4782000.694 | 119.832 | 611 |
| 1659 | 1 | 543723.353 | 4781996.284 | 119.825 | 611 |
| 1660 | 1 | 543723.755 | 4781995.379 | 119.859 | 611 |
| 1661 | 1 | 543718.279 | 4781992.665 | 119.848 | 611 |
| 1662 | 1 | 543717.844 | 4781993.554 | 119.859 | 611 |
| 1663 | 1 | 543721.421 | 4781996.909 | 119.523 | 102 |
| 1664 | 1 | 543730.046 | 4782001.208 | 119.748 | 101,102 |
| 1665 | 1 | 543727.939 | 4782002.051 | 119.691 | 101 |
| 1666 | 1 | 543717.371 | 4781999.257 | 119.993 | 611 |
| 1667 | 1 | 543717.100 | 4781999.879 | 119.786 | 101 I |
| 1668 | 1 | 543723.817 | 4782003.477 | 119.711 | 102 |
| 1669 | 1 | 543723.957 | 4782003.127 | 119.780 | 101 |
| 1670 | 1 | 543731.032 | 4782006.187 | 119.867 | 611 |
| 1671 | 1 | 543669.467 | 4781973.713 | 120.693 | 314 |
| 1672 | 1 | 543685.740 | 4781977.740 | 120.816 | 314 |
| 1673 | 1 | 543696.408 | 4781980.299 | 120.831 | 314 |
| 1674 | 1 | 543698.319 | 4781980.753 | 121.896 | 314 |
| 1675 | 1 | 543723.719 | 4781991.090 | 122.294 | 314 |
| 1676 | 1 | 543637.676 | 4781984.822 | 120.141 | 500 |
| 1677 | 1 | 543637.788 | 4781984.624 | 119.989 | 102 I |
| 1678 | 1 | 543638.890 | 4781984.390 | 120.165 | 804 |
| 1679 | 1 | 543641.236 | 4781986.211 | 120.417 | 102,313 I |
| 1680 | 1 | 543650.097 | 4781986.128 | 119.999 | 657 |
| 1681 | 1 | 543747.979 | 4782018.517 | 119.496 | 661 |
| 1682 | 1 | 543656.831 | 4781986.791 | 120.072 | 658 |
| 1683 | 1 | 543659.364 | 4781987.300 | 120.123 | 809 |
| 1684 | 1 | 543743.795 | 4782019.544 | 119.521 | 658 |
| 1685 | 1 | 543664.894 | 4781987.832 | 119.607 | 324 |
| 1686 | 1 | 543664.587 | 4781987.210 | 119.601 | 324 |
| 1687 | 1 | 543764.424 | 4782038.943 | 119.572 | 102 I |
| 1688 | 1 | 543770.657 | 4782041.488 | 119.678 | 102 |
| 1689 | 1 | 543743.161 | 4782018.551 | 119.796 | 326 |
| 1690 | 1 | 543779.055 | 4782043.026 | 119.553 | 102 |
| 1691 | 1 | 543746.613 | 4782019.547 | 119.684 | 611 I |
| 1692 | 1 | 543798.065 | 4782054.337 | 119.184 | 102 |
| 1693 | 1 | 543804.630 | 4782058.986 | 119.119 | 102 |
| 1694 | 1 | 543806.967 | 4782059.565 | 119.215 | 102 |
| 1695 | 1 | 543735.608 | 4782010.410 | 119.675 | 101 I |
| 1696 | 1 | 543731.483 | 4782008.086 | 119.716 | 101 |
| 1697 | 1 | 543731.175 | 4782008.901 | 119.839 | 611 |
| 1698 | 1 | 543730.669 | 4782009.771 | 119.833 | 611 |
| 1699 | 1 | 543732.613 | 4782012.565 | 119.632 | 500 |
| 1700 | 1 | 543730.534 | 4782010.751 | 119.701 | 326 I |
| 1701 | 1 | 543763.857 | 4782040.003 | 122.018 | 101 I |
| 1702 | 1 | 543728.148 | 4782010.819 | 119.693 | 326 |
| 1703 | 1 | 543728.689 | 4782009.842 | 119.733 | 326 C |
| 1704 | 1 | 543792.548 | 4782053.221 | 129.691 | 101 |
| 1705 | 1 | 543726.341 | 4782006.249 | 119.903 | 611 |
| 1706 | 1 | 543807.188 | 4782065.396 | 129.813 | 101 |
| 1707 | 1 | 543818.365 | 4782069.025 | 127.985 | 101 |
| 1708 | 1 | 543717.094 | 4782001.671 | 119.966 | 611 |

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| 1709 | 1 | 543715.513 | 4782004.219 | 119.799 | 657 |
| 1710 | 1 | 543716.166 | 4782004.970 | 119.685 | 705 |
| 1711 | 1 | 543714.513 | 4782008.617 | 120.338 | 102 |
| 1712 | 1 | 543723.486 | 4782007.149 | 119.548 | 102 |
| 1713 | 1 | 543723.874 | 4782006.869 | 119.691 | 101 |
| 1714 | 1 | 543728.659 | 4782009.794 | 119.722 | 101 |
| 1715 | 1 | 543728.488 | 4782009.999 | 119.661 | 102 |
| 1716 | 1 | 543885.741 | 4782105.144 | 121.107 | 101 |
| 1717 | 1 | 543733.531 | 4782015.543 | 119.848 | 103 |
| 1718 | 1 | 543735.415 | 4782014.090 | 119.629 | 103 |
| 1719 | 1 | 544168.107 | 4782258.558 | 117.094 | 101 |
| 1720 | 1 | 543739.616 | 4782022.730 | 119.420 | 317 |
| 1721 | 1 | 543741.302 | 4782021.244 | 119.519 | 103 |
| 1722 | 1 | 543743.735 | 4782018.739 | 119.566 | 103 |
| 1723 | 1 | 543745.339 | 4782019.860 | 119.334 | 103 |
| 1724 | 1 | 544196.371 | 4782265.904 | 111.578 | 101,314 I |
| 1725 | 1 | 544207.986 | 4782269.485 | 111.324 | 314 |
| 1726 | 1 | 543752.290 | 4782024.799 | 119.249 | 101 |
| 1727 | 1 | 543752.121 | 4782025.515 | 118.874 | 102 |
| 1728 | 1 | 544178.210 | 4782259.203 | 109.952 | 313 I |
| 1729 | 1 | 544189.546 | 4782263.310 | 109.691 | 313 |
| 1730 | 1 | 544189.615 | 4782262.742 | 109.715 | 329 |
| 1731 | 1 | 543755.399 | 4782027.642 | 118.826 | 313 |
| 1732 | 1 | 543755.625 | 4782027.316 | 118.860 | 313 |
| 1733 | 1 | 543755.121 | 4782026.722 | 119.308 | 658 |
| 1734 | 1 | 543756.279 | 4782027.312 | 119.344 | 103 |
| 1735 | 1 | 543758.458 | 4782028.267 | 119.226 | 655 |
| 1736 | 1 | 543756.674 | 4782028.003 | 118.809 | 313 |
| 1737 | 1 | 544213.642 | 4782270.319 | 109.137 | 329 |
| 1738 | 1 | 544214.844 | 4782272.119 | 109.061 | 329 |
| 1739 | 1 | 543757.234 | 4782028.362 | 118.848 | 313 |
| 1740 | 1 | 544235.651 | 4782278.147 | 108.298 | 102 |
| 1741 | 1 | 544239.282 | 4782279.196 | 108.132 | 102 |
| 1742 | 1 | 544232.875 | 4782276.820 | 108.374 | 329 |
| 1743 | 1 | 544242.366 | 4782279.278 | 107.999 | 329 |
| 1744 | 1 | 544246.137 | 4782281.308 | 107.941 | 102 |
| 1745 | 1 | 544244.953 | 4782281.932 | 111.518 | 101 |
| 1746 | 1 | 544255.325 | 4782283.594 | 107.692 | 329 |
| 1747 | 1 | 544267.765 | 4782287.014 | 107.439 | 329 |
| 1748 | 1 | 544267.760 | 4782287.720 | 107.472 | 102 |
| 1749 | 1 | 544283.133 | 4782291.987 | 107.157 | 102 |
| 1750 | 1 | 543759.553 | 4782036.708 | 119.077 | 317 |
| 1751 | 1 | 543762.896 | 4782037.908 | 119.064 | 311 |
| 1752 | 1 | 544258.714 | 4782284.965 | 107.317 | 329 |
| 1753 | 1 | 544249.069 | 4782282.070 | 107.514 | 329 |
| 1754 | 1 | 544241.879 | 4782279.559 | 107.713 | 329 |
| 1755 | 1 | 544233.365 | 4782277.377 | 108.051 | 329 |
| 1756 | 1 | 543767.314 | 4782034.741 | 118.932 | 102 |
| 1757 | 1 | 543766.251 | 4782036.185 | 118.908 | 102 |
| 1758 | 1 | 543763.985 | 4782037.383 | 118.910 | 102 |
| 1759 | 1 | 543763.564 | 4782031.308 | 119.262 | 101 I |
| 1760 | 1 | 544198.399 | 4782266.046 | 109.157 | 329 |
| 1761 | 1 | 544185.599 | 4782261.698 | 109.482 | 329 |
| 1762 | 1 | 544176.915 | 4782258.567 | 109.686 | 329 |
| 1763 | 1 | 544245.998 | 4782282.153 | 113.068 | 314 I |
| 1764 | 1 | 544261.042 | 4782286.353 | 113.114 | 314 |
| 1765 | 1 | 543768.343 | 4782035.374 | 119.434 | 658 |
| 1766 | 1 | 543763.905 | 4782027.483 | 119.358 | 661 |
| 1767 | 1 | 543762.280 | 4782030.168 | 119.267 | 661 |
| 1768 | 1 | 543754.838 | 4782024.769 | 119.607 | 611 |
| 1769 | 1 | 543755.514 | 4782023.716 | 119.609 | 611 |

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| 1770 | 1 | 543774.864 | 4782037.440 | 119.439 | 611 |
| 1771 | 1 | 543769.913 | 4782031.276 | 119.469 | 611 |
| 1772 | 1 | 543753.249 | 4782022.386 | 119.614 | 611 |
| 1773 | 1 | 543752.685 | 4782023.206 | 119.614 | 611 |
| 1774 | 1 | 543758.548 | 4782026.493 | 119.596 | 611 |
| 1775 | 1 | 543756.714 | 4782024.784 | 119.594 | 611 |
| 1776 | 1 | 543768.140 | 4782032.011 | 119.493 | 611 |
| 1777 | 1 | 543770.004 | 4782035.638 | 119.007 | 329 |
| 1778 | 1 | 543769.882 | 4782035.811 | 119.379 | 311 I |
| 1779 | 1 | 543769.760 | 4782035.693 | 119.352 | 311 |
| 1780 | 1 | 543771.348 | 4782037.402 | 119.366 | 311 |
| 1781 | 1 | 543774.209 | 4782038.699 | 119.353 | 311 |
| 1782 | 1 | 543774.546 | 4782038.161 | 118.933 | 329 |
| 1783 | 1 | 543775.806 | 4782036.867 | 119.402 | 611 |
| 1784 | 1 | 543782.666 | 4782041.292 | 119.338 | 611 |
| 1785 | 1 | 543782.167 | 4782042.054 | 119.342 | 611 |
| 1786 | 1 | 543779.361 | 4782042.173 | 119.333 | 311 |
| 1787 | 1 | 543779.302 | 4782043.077 | 119.456 | 311,102 I |
| 1788 | 1 | 543782.171 | 4782043.990 | 119.297 | 706 |
| 1789 | 1 | 543786.637 | 4782047.149 | 119.240 | 102 |
| 1790 | 1 | 543787.397 | 4782046.627 | 119.212 | 311 |
| 1791 | 1 | 543787.509 | 4782046.467 | 118.786 | 329 |
| 1792 | 1 | 543788.744 | 4782045.050 | 119.317 | 611 |
| 1793 | 1 | 543791.246 | 4782045.780 | 119.058 | 652 |
| 1794 | 1 | 543792.761 | 4782043.888 | 119.326 | 611 I |
| 1795 | 1 | 543788.568 | 4782041.176 | 119.376 | 611 |
| 1796 | 1 | 543782.302 | 4782037.531 | 119.420 | 611 |
| 1797 | 1 | 544013.256 | 4782178.168 | 114.428 | 101 |
| 1798 | 1 | 544020.047 | 4782181.785 | 114.208 | 101 |
| 1799 | 1 | 544034.757 | 4782188.338 | 112.589 | 329 |
| 1800 | 1 | 544035.475 | 4782191.018 | 113.192 | 329 |
| 1801 | 1 | 543798.439 | 4782052.361 | 119.204 | 611 |
| 1802 | 1 | 543798.045 | 4782052.906 | 119.071 | 313 |
| 1803 | 1 | 543797.961 | 4782053.052 | 118.712 | 329 |
| 1804 | 1 | 543797.751 | 4782053.116 | 119.117 | 311 |
| 1805 | 1 | 544062.994 | 4782203.317 | 113.004 | 329 |
| 1806 | 1 | 544062.155 | 4782205.002 | 113.300 | 329 |
| 1807 | 1 | 543799.593 | 4782055.399 | 119.213 | 102 |
| 1808 | 1 | 544064.429 | 4782204.153 | 112.977 | 329 |
| 1809 | 1 | 544062.194 | 4782204.883 | 112.227 | 329 I |
| 1810 | 1 | 544061.816 | 4782204.855 | 112.958 | 101 I |
| 1811 | 1 | 543803.776 | 4782056.652 | 118.679 | 329 |
| 1812 | 1 | 543803.851 | 4782056.592 | 119.054 | 313 |
| 1813 | 1 | 543804.313 | 4782056.033 | 119.213 | 611 |
| 1814 | 1 | 544050.626 | 4782199.296 | 112.565 | 101 |
| 1815 | 1 | 544037.965 | 4782191.238 | 111.581 | 103 |
| 1816 | 1 | 544037.240 | 4782191.770 | 111.970 | 329 |
| 1817 | 1 | 544036.912 | 4782192.113 | 112.828 | 101 |
| 1818 | 1 | 544030.888 | 4782188.827 | 112.645 | 329 |
| 1819 | 1 | 543812.796 | 4782062.065 | 119.014 | 313 |
| 1820 | 1 | 543813.487 | 4782061.673 | 119.123 | 611 |
| 1821 | 1 | 544018.852 | 4782183.686 | 114.090 | 329 |
| 1822 | 1 | 544018.933 | 4782183.262 | 113.964 | 103 |
| 1823 | 1 | 543816.516 | 4782065.139 | 118.967 | 706 |
| 1824 | 1 | 544026.109 | 4782185.219 | 113.263 | 329 |
| 1825 | 1 | 544025.932 | 4782185.902 | 113.016 | 103 |
| 1826 | 1 | 543818.913 | 4782065.838 | 118.448 | 329 |
| 1827 | 1 | 544034.265 | 4782188.287 | 112.393 | 329 |
| 1828 | 1 | 544065.933 | 4782205.650 | 112.909 | 101 I |
| 1829 | 1 | 544073.471 | 4782210.711 | 114.371 | 101 |
| 1830 | 1 | 544076.562 | 4782211.738 | 114.466 | 101 |

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| 1831 | 1 | 544087.048 | 4782216.505 | 115.282 | 101 |
| 1832 | 1 | 543826.880 | 4782068.284 | 118.810 | 611 |
| 1833 | 1 | 544101.643 | 4782224.468 | 114.390 | 101 |
| 1834 | 1 | 543825.911 | 4782069.633 | 118.774 | 313 |
| 1835 | 1 | 544107.956 | 4782228.035 | 114.430 | 314 I |
| 1836 | 1 | 544111.766 | 4782229.857 | 114.420 | 314 |
| 1837 | 1 | 544113.173 | 4782227.947 | 111.434 | 329 I |
| 1838 | 1 | 544112.652 | 4782229.066 | 111.393 | 313 I |
| 1839 | 1 | 544114.378 | 4782229.116 | 111.403 | 329 |
| 1840 | 1 | 544124.010 | 4782234.011 | 111.210 | 329 |
| 1841 | 1 | 543825.686 | 4782061.983 | 118.843 | 314 |
| 1842 | 1 | 543825.485 | 4782062.602 | 118.844 | 816 |
| 1843 | 1 | 543828.165 | 4782063.875 | 118.749 | 816 |
| 1844 | 1 | 543829.903 | 4782064.822 | 118.747 | 816 |
| 1845 | 1 | 544130.370 | 4782237.871 | 111.009 | 313 |
| 1846 | 1 | 544130.658 | 4782237.152 | 111.014 | 329 |
| 1847 | 1 | 544144.199 | 4782244.240 | 110.715 | 329 |
| 1848 | 1 | 544143.957 | 4782244.785 | 110.746 | 313 |
| 1849 | 1 | 544147.032 | 4782246.312 | 110.644 | 313 |
| 1850 | 1 | 544147.281 | 4782245.894 | 110.642 | 329 |
| 1851 | 1 | 543847.608 | 4782074.840 | 118.410 | 816 |
| 1852 | 1 | 543848.101 | 4782074.670 | 118.456 | 314 |
| 1853 | 1 | 544174.043 | 4782257.806 | 110.068 | 313 |
| 1854 | 1 | 544174.256 | 4782257.262 | 110.024 | 329 |
| 1855 | 1 | 543857.724 | 4782080.090 | 118.275 | 314 |
| 1856 | 1 | 543857.537 | 4782080.450 | 118.264 | 816 |
| 1857 | 1 | 543857.708 | 4782080.627 | 118.010 | 103 |
| 1858 | 1 | 544146.791 | 4782246.433 | 112.384 | 314 |
| 1859 | 1 | 543867.589 | 4782086.121 | 117.963 | 816 |
| 1860 | 1 | 543867.969 | 4782085.908 | 117.972 | 314 |
| 1861 | 1 | 544130.254 | 4782238.038 | 112.749 | 314 |
| 1862 | 1 | 543878.954 | 4782091.837 | 117.671 | 317 |
| 1863 | 1 | 544125.440 | 4782235.633 | 112.871 | 314 I |
| 1864 | 1 | 544112.566 | 4782229.244 | 113.172 | 314 |
| 1865 | 1 | 544114.181 | 4782229.486 | 111.104 | 329 |
| 1866 | 1 | 544113.005 | 4782228.385 | 111.055 | 329 |
| 1867 | 1 | 543885.547 | 4782096.265 | 117.527 | 816 |
| 1868 | 1 | 544125.418 | 4782235.805 | 111.470 | Insertado |
| 1869 | 1 | 543894.474 | 4782100.967 | 117.304 | 816 |
| 1870 | 1 | 543896.006 | 4782099.686 | 116.952 | 700 |
| 1871 | 1 | 543891.636 | 4782099.172 | 117.391 | 314 |
| 1872 | 1 | 543894.426 | 4782100.274 | 117.339 | 317 |
| 1873 | 1 | 543894.735 | 4782099.792 | 116.974 | 311 I |
| 1874 | 1 | 543895.832 | 4782100.061 | 116.962 | 311 |
| 1875 | 1 | 543899.395 | 4782103.160 | 117.011 | 816 |
| 1876 | 1 | 543897.064 | 4782102.217 | 116.731 | 102 I |
| 1877 | 1 | 543900.693 | 4782104.339 | 116.580 | 102 |
| 1878 | 1 | 543904.974 | 4782106.106 | 117.011 | 706 |
| 1879 | 1 | 543900.919 | 4782103.518 | 116.288 | 103 |
| 1880 | 1 | 543894.802 | 4782099.750 | 116.238 | 103 |
| 1881 | 1 | 543900.947 | 4782101.758 | 115.796 | 314 |
| 1882 | 1 | 543900.952 | 4782103.562 | 116.576 | 314 |
| 1883 | 1 | 543904.557 | 4782105.600 | 116.837 | 317 |
| 1884 | 1 | 543905.861 | 4782106.227 | 116.545 | 317 |
| 1885 | 1 | 543906.070 | 4782107.348 | 116.506 | 102 |
| 1886 | 1 | 543914.095 | 4782111.434 | 116.367 | 816 |
| 1887 | 1 | 543921.857 | 4782115.349 | 116.180 | 317 |
| 1888 | 1 | 543923.588 | 4782115.431 | 116.060 | 311 |
| 1889 | 1 | 543922.914 | 4782116.439 | 116.099 | 816 |
| 1890 | 1 | 543922.634 | 4782116.873 | 116.026 | 102 |
| 1891 | 1 | 543936.901 | 4782123.917 | 115.791 | 317 |

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|--------|-------|------------|-------------|----------|-------------|
| 1892 | 1 | 543934.894 | 4782123.958 | 115.784 | 655 |
| 1893 | 1 | 543939.163 | 4782125.224 | 115.721 | 317 |
| 1894 | 1 | 543938.881 | 4782127.393 | 116.029 | 611 I |
| 1895 | 1 | 543937.764 | 4782129.187 | 115.794 | 102 |
| 1896 | 1 | 543917.601 | 4782116.548 | 116.592 | 611 |
| 1897 | 1 | 543917.023 | 4782117.214 | 116.365 | 113,102 |
| 1898 | 1 | 543913.994 | 4782120.795 | 116.296 | 705 |
| 1899 | 1 | 543914.916 | 4782121.345 | 116.188 | 653 |
| 1900 | 1 | 543917.919 | 4782122.560 | 116.364 | 656 |
| 1901 | 1 | 543918.824 | 4782124.027 | 116.685 | 706 |
| 1902 | 1 | 543923.049 | 4782124.240 | 116.713 | 101 |
| 1903 | 1 | 543922.922 | 4782124.913 | 116.398 | 102 |
| 1904 | 1 | 543929.896 | 4782128.782 | 116.235 | 102 |
| 1905 | 1 | 543930.446 | 4782128.377 | 116.435 | 101 |
| 1906 | 1 | 543931.775 | 4782129.546 | 116.253 | 655 |
| 1907 | 1 | 543936.712 | 4782129.983 | 116.042 | 611 |
| 1908 | 1 | 543925.692 | 4782124.911 | 118.317 | 611 |
| 1909 | 1 | 543918.919 | 4782119.036 | 118.412 | 101 |
| 1910 | 1 | 543918.323 | 4782119.596 | 118.559 | 611 |
| 1911 | 1 | 543909.458 | 4782115.746 | 116.754 | 611 |
| 1912 | 1 | 543909.931 | 4782114.895 | 116.683 | 611 |
| 1913 | 1 | 543907.137 | 4782111.720 | 116.628 | 101 I,102 I |
| 1914 | 1 | 543903.295 | 4782109.712 | 116.569 | 102 |
| 1915 | 1 | 543903.322 | 4782111.192 | 118.899 | 611 |
| 1916 | 1 | 543904.387 | 4782107.995 | 116.912 | 611 |
| 1917 | 1 | 543900.323 | 4782104.930 | 116.797 | 101 |
| 1918 | 1 | 543899.715 | 4782105.355 | 117.037 | 611 |
| 1919 | 1 | 543898.436 | 4782107.059 | 116.812 | 103 |
| 1920 | 1 | 543893.155 | 4782103.899 | 116.997 | 103 |
| 1921 | 1 | 543896.192 | 4782102.014 | 116.787 | 101 |
| 1922 | 1 | 543892.885 | 4782101.529 | 117.213 | 611 |
| 1923 | 1 | 543892.469 | 4782102.438 | 117.268 | 611 |
| 1924 | 1 | 543871.979 | 4782090.980 | 117.743 | 611 |
| 1925 | 1 | 543860.752 | 4782085.841 | 117.750 | 103 |
| 1926 | 1 | 543860.460 | 4782084.513 | 118.044 | 611 |
| 1927 | 1 | 543860.917 | 4782083.641 | 118.045 | 611 |
| 1928 | 1 | 543849.506 | 4782079.372 | 118.109 | 103 |
| 1929 | 1 | 543843.241 | 4782075.860 | 118.238 | 101 I,102 I |
| 1930 | 1 | 543843.757 | 4782075.156 | 118.436 | 611 |
| 1931 | 1 | 543833.328 | 4782069.254 | 118.732 | 611 |
| 1932 | 1 | 543833.027 | 4782069.776 | 118.516 | 101 |
| 1933 | 1 | 543832.585 | 4782071.523 | 118.708 | 611 I |
| 1934 | 1 | 543832.022 | 4782073.115 | 118.489 | 313 |
| 1935 | 1 | 543831.760 | 4782074.335 | 118.506 | 102 I |
| 1936 | 1 | 543842.047 | 4782078.770 | 118.285 | 313 |
| 1937 | 1 | 543848.816 | 4782082.901 | 118.133 | 311 |
| 1938 | 1 | 543847.940 | 4782083.174 | 118.159 | 102 |
| 1939 | 1 | 543849.670 | 4782084.228 | 118.090 | 102 |
| 1940 | 1 | 543856.590 | 4782087.052 | 117.614 | 329 |
| 1941 | 1 | 543858.788 | 4782088.932 | 117.956 | 705 |
| 1942 | 1 | 543857.240 | 4782086.497 | 118.069 | 611 |
| 1943 | 1 | 543857.718 | 4782085.622 | 118.026 | 611 |
| 1944 | 1 | 543868.140 | 4782091.435 | 117.819 | 611 |
| 1945 | 1 | 543867.647 | 4782093.255 | 117.182 | 329 |
| 1946 | 1 | 543867.534 | 4782093.397 | 117.616 | 311 |
| 1947 | 1 | 543867.457 | 4782094.029 | 117.673 | 102 |
| 1948 | 1 | 543875.214 | 4782098.273 | 117.582 | 102 |
| 1949 | 1 | 543875.704 | 4782097.989 | 117.470 | 311 |
| 1950 | 1 | 543875.774 | 4782097.785 | 117.183 | 329 |
| 1951 | 1 | 543876.081 | 4782097.054 | 117.578 | 611 |
| 1952 | 1 | 543878.456 | 4782100.223 | 117.406 | 657 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 1953 | 1 | 543877.602 | 4782100.233 | 117.553 | 102 |
| 1954 | 1 | 543878.638 | 4782100.699 | 117.483 | 102 |
| 1955 | 1 | 543882.816 | 4782101.721 | 117.301 | 313 |
| 1956 | 1 | 543883.387 | 4782099.970 | 117.439 | 611 |
| 1957 | 1 | 543884.024 | 4782103.250 | 117.432 | 654 |
| 1958 | 1 | 543883.158 | 4782103.650 | 117.580 | 102 |
| 1959 | 1 | 543891.590 | 4782107.766 | 117.406 | 313 |
| 1960 | 1 | 543886.338 | 4782103.722 | 117.258 | 313 I |
| 1961 | 1 | 543886.396 | 4782104.055 | 116.963 | 329 |
| 1962 | 1 | 543886.374 | 4782104.333 | 117.403 | 739 I,311 |
| 1963 | 1 | 543886.526 | 4782104.064 | 117.407 | 739 |
| 1964 | 1 | 543892.673 | 4782107.982 | 117.295 | 311 |
| 1965 | 1 | 543895.838 | 4782110.678 | 116.560 | |
| 1966 | 1 | 543895.444 | 4782110.661 | 116.560 | Insertado |
| 1967 | 1 | 543903.957 | 4782117.151 | 116.250 | |
| 1968 | 1 | 543907.039 | 4782118.836 | 116.330 | |
| 1969 | 1 | 543898.674 | 4782111.452 | 116.470 | |
| 1970 | 1 | 543902.690 | 4782115.817 | 116.250 | |
| 1971 | 1 | 544037.965 | 4782190.304 | 111.970 | |
| 1972 | 1 | 544051.586 | 4782197.468 | 112.104 | |
| 1973 | 1 | 544062.909 | 4782203.415 | 112.227 | |
| 1974 | 1 | 543520.339 | 4781958.716 | 120.269 | 006 |
| 1975 | 1 | 543589.596 | 4781980.666 | 114.595 | Insertado |
| 1976 | 1 | 543608.505 | 4781980.722 | 119.615 | Insertado |
| 1977 | 1 | 543584.321 | 4781985.318 | 119.915 | Insertado |
| 1978 | 1 | 543516.544 | 4781970.396 | 119.845 | Insertado |
| 1979 | 1 | 543726.326 | 4781996.690 | 119.819 | 611 I |
| 1980 | 1 | 543720.527 | 4781991.684 | 119.231 | 816 I |
| 1981 | 1 | 543727.206 | 4781995.515 | 119.215 | 102 I |
| 1982 | 1 | 543715.261 | 4781989.844 | 119.249 | 102 |
| 1983 | 1 | 543720.031 | 4781992.924 | 119.540 | 101 I |
| 1984 | 1 | 543731.887 | 4781998.239 | 119.270 | 816,102 |
| 1985 | 1 | 543731.700 | 4781998.896 | 119.563 | 101 |
| 1986 | 1 | 543668.346 | 4781974.998 | 119.950 | 101 |
| 1987 | 1 | 543654.697 | 4781972.294 | 119.910 | 101 |
| 1988 | 1 | 543654.606 | 4781972.593 | 120.185 | 611 |
| 1989 | 1 | 543771.690 | 4782023.619 | 119.733 | 816 |
| 1990 | 1 | 543645.544 | 4781971.164 | 120.195 | 611 |
| 1991 | 1 | 543775.347 | 4782026.451 | 119.763 | 101 |
| 1992 | 1 | 543775.396 | 4782025.773 | 119.501 | 102 |
| 1993 | 1 | 543643.053 | 4781969.164 | 119.836 | 311 I |
| 1994 | 1 | 543779.974 | 4782028.719 | 119.674 | 101,102 |
| 1995 | 1 | 543654.454 | 4781970.770 | 120.243 | 658 |
| 1996 | 1 | 543784.542 | 4782031.549 | 120.116 | 816 |
| 1997 | 1 | 543657.594 | 4781971.741 | 119.712 | 804 |
| 1998 | 1 | 543783.515 | 4782034.410 | 120.079 | 816 |
| 1999 | 1 | 543783.695 | 4782035.954 | 119.947 | 816 |
| 2000 | 1 | 543669.684 | 4781974.291 | 119.676 | 311 |
| 2001 | 1 | 543685.763 | 4781977.860 | 119.477 | 313 |
| 2002 | 1 | 543693.795 | 4781979.830 | 119.470 | 313 |
| 2003 | 1 | 543792.855 | 4782041.932 | 119.476 | 314 |
| 2004 | 1 | 543707.842 | 4781986.057 | 119.504 | 311 |
| 2005 | 1 | 543810.067 | 4782053.081 | 119.130 | 816 |
| 2006 | 1 | 543810.453 | 4782052.516 | 119.136 | 314 |
| 2007 | 1 | 543712.427 | 4781988.115 | 119.309 | 412 |
| 2008 | 1 | 543818.248 | 4782057.622 | 119.006 | 006 |
| 2009 | 1 | 543824.788 | 4782061.148 | 118.899 | 317 |
| 2010 | 1 | 543728.444 | 4781995.693 | 119.277 | 311 |
| 2011 | 1 | 543824.942 | 4782061.266 | 118.869 | 314 |
| 2012 | 1 | 543824.814 | 4782062.314 | 118.723 | 103 |
| 2013 | 1 | 543823.771 | 4782063.941 | 118.943 | 611 |

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|--------|-------|------------|-------------|----------|-----------|
| 2014 | 1 | 543702.964 | 4781990.170 | 119.767 | 651 |
| 2015 | 1 | 543701.251 | 4781992.739 | 120.104 | 605 |
| 2016 | 1 | 543684.310 | 4781984.182 | 119.839 | 103 |
| 2017 | 1 | 543676.023 | 4781983.386 | 120.158 | 611 |
| 2018 | 1 | 543805.695 | 4782054.460 | 118.795 | 102 |
| 2019 | 1 | 543798.589 | 4782049.942 | 118.896 | 102 |
| 2020 | 1 | 543653.813 | 4781976.257 | 120.187 | 611 |
| 2021 | 1 | 543792.956 | 4782043.082 | 119.026 | 661 |
| 2022 | 1 | 543792.598 | 4782044.774 | 119.310 | 611 |
| 2023 | 1 | 543790.727 | 4782044.532 | 119.074 | 101 |
| 2024 | 1 | 543789.514 | 4782044.274 | 118.990 | 661 |
| 2025 | 1 | 543786.758 | 4782042.449 | 119.140 | 101,102 |
| 2026 | 1 | 543785.667 | 4782041.296 | 119.278 | 660 |
| 2027 | 1 | 543786.178 | 4782040.897 | 119.352 | 403 |
| 2028 | 1 | 543787.237 | 4782038.843 | 119.170 | 103 |
| 2029 | 1 | 543781.878 | 4782034.325 | 119.096 | 103 |
| 2030 | 1 | 543779.828 | 4782033.103 | 119.100 | 102 I |
| 2031 | 1 | 544244.974 | 4782284.718 | 112.993 | 315 I |
| 2032 | 1 | 543675.587 | 4781995.752 | 119.880 | 814 |
| 2033 | 1 | 544246.291 | 4782282.516 | 113.066 | 315 |
| 2034 | 1 | 543685.585 | 4781998.650 | 120.684 | 658 |
| 2035 | 1 | 543777.185 | 4782031.992 | 119.221 | 101 I |
| 2036 | 1 | 543771.277 | 4782029.071 | 119.212 | 101 |
| 2037 | 1 | 544254.616 | 4782284.855 | 113.003 | 315 |
| 2038 | 1 | 543769.767 | 4782029.125 | 119.474 | 611 |
| 2039 | 1 | 543703.082 | 4781998.950 | 119.758 | 804 |
| 2040 | 1 | 543708.240 | 4782003.640 | 119.948 | 102 |
| 2041 | 1 | 544264.823 | 4782287.890 | 113.055 | 741 |
| 2042 | 1 | 543764.896 | 4782025.043 | 119.430 | 101 |
| 2043 | 1 | 544266.331 | 4782288.158 | 113.068 | 315 |
| 2044 | 1 | 544274.977 | 4782290.565 | 113.044 | 315 |
| 2045 | 1 | 544275.010 | 4782290.447 | 113.143 | 103 |
| 2046 | 1 | 543761.928 | 4782022.053 | 119.407 | 102 |
| 2047 | 1 | 544282.780 | 4782292.927 | 113.046 | 741 |
| 2048 | 1 | 543733.241 | 4782019.695 | 119.942 | 102,317 I |
| 2049 | 1 | 544283.437 | 4782292.973 | 113.044 | 315 |
| 2050 | 1 | 544292.930 | 4782295.627 | 113.096 | 315 |
| 2051 | 1 | 543750.382 | 4782029.809 | 119.004 | 317 |
| 2052 | 1 | 543749.830 | 4782030.628 | 118.989 | 317 |
| 2053 | 1 | 543753.439 | 4782018.806 | 119.614 | 403 |
| 2054 | 1 | 543754.174 | 4782017.220 | 119.271 | 102 |
| 2055 | 1 | 543748.869 | 4782013.922 | 119.324 | 102 |
| 2056 | 1 | 543761.467 | 4782014.956 | 121.004 | 300 I |
| 2057 | 1 | 543741.176 | 4782009.618 | 119.540 | 102,101 |
| 2058 | 1 | 543750.022 | 4782007.573 | 120.983 | 300 |
| 2059 | 1 | 543740.584 | 4782011.861 | 119.756 | 611 |
| 2060 | 1 | 543739.101 | 4782001.162 | 119.823 | 313 |
| 2061 | 1 | 544271.405 | 4782293.362 | 113.138 | 400 |
| 2062 | 1 | 544268.503 | 4782291.870 | 113.268 | 706 |
| 2063 | 1 | 543756.500 | 4782016.976 | 119.711 | 101 |
| 2064 | 1 | 543764.228 | 4782021.612 | 119.752 | 101 |
| 2065 | 1 | 543729.613 | 4781994.170 | 120.087 | 300 |
| 2066 | 1 | 544241.288 | 4782283.181 | 111.144 | 309 |
| 2067 | 1 | 544240.604 | 4782285.027 | 111.125 | 309 |
| 2068 | 1 | 544236.799 | 4782283.554 | 111.221 | 309 I |
| 2069 | 1 | 544237.561 | 4782281.743 | 111.199 | 309 |
| 2070 | 1 | 544233.916 | 4782280.343 | 109.322 | 309 |
| 2071 | 1 | 544233.217 | 4782282.168 | 109.349 | 309 |
| 2072 | 1 | 543783.522 | 4782034.287 | 119.864 | 311 |
| 2073 | 1 | 544230.299 | 4782278.899 | 109.319 | 309 |
| 2074 | 1 | 543705.967 | 4781998.023 | 120.042 | 605 |

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| 2075 | 1 | 544225.970 | 4782279.364 | 107.485 | 309 |
| 2076 | 1 | 543690.584 | 4781991.520 | 120.122 | 611 |
| 2077 | 1 | 543690.343 | 4781992.529 | 120.125 | 605 |
| 2078 | 1 | 543690.893 | 4781990.513 | 119.732 | 103 |
| 2079 | 1 | 543690.023 | 4781992.999 | 119.888 | 101 |
| 2080 | 1 | 544240.471 | 4782285.381 | 111.137 | 102 |
| 2081 | 1 | 544244.544 | 4782287.111 | 112.636 | 102 |
| 2082 | 1 | 544247.212 | 4782288.136 | 112.890 | 102 |
| 2083 | 1 | 544248.569 | 4782288.254 | 113.184 | 102 |
| 2084 | 1 | 543681.028 | 4781988.459 | 120.142 | 611 |
| 2085 | 1 | 544248.645 | 4782288.152 | 113.283 | 331 |
| 2086 | 1 | 543672.536 | 4781988.000 | 119.869 | 101 |
| 2087 | 1 | 544232.666 | 4782279.838 | 109.294 | 318 |
| 2088 | 1 | 543779.630 | 4782027.383 | 120.043 | 314 |
| 2089 | 1 | 543665.347 | 4781986.603 | 119.874 | 101 |
| 2090 | 1 | 544226.345 | 4782277.431 | 107.395 | 315,313 I |
| 2091 | 1 | 544134.330 | 4782221.597 | 106.535 | 313 I |
| 2092 | 1 | 544133.571 | 4782222.853 | 106.552 | 313 |
| 2093 | 1 | 544134.323 | 4782223.358 | 106.544 | 309 I |
| 2094 | 1 | 543665.684 | 4781984.945 | 120.187 | 611 I |
| 2095 | 1 | 543668.503 | 4781985.571 | 120.158 | 611 |
| 2096 | 1 | 543675.548 | 4781987.828 | 120.150 | 611 |
| 2097 | 1 | 543679.706 | 4781989.144 | 120.145 | 611 |
| 2098 | 1 | 543680.038 | 4781988.329 | 120.135 | 611 I |
| 2100 | 1 | 543771.108 | 4782021.841 | 120.087 | 317 |
| 2101 | 1 | 543770.976 | 4782021.661 | 119.084 | 317 |
| 2102 | 1 | 543669.007 | 4781984.663 | 120.175 | 611 I |
| 2103 | 1 | 544130.165 | 4782227.914 | 109.057 | 313 |
| 2104 | 1 | 543770.647 | 4782022.355 | 119.816 | 309 I |
| 2105 | 1 | 543730.243 | 4781993.341 | 123.099 | 300 I |
| 2106 | 1 | 544132.448 | 4782221.746 | 107.507 | 101 |
| 2107 | 1 | 543771.003 | 4782022.798 | 119.624 | 313 I |
| 2108 | 1 | 544125.846 | 4782219.637 | 107.781 | 101 |
| 2109 | 1 | 543765.794 | 4782019.171 | 119.047 | 313 |
| 2110 | 1 | 543717.483 | 4781984.849 | 123.681 | 300 |
| 2111 | 1 | 543706.164 | 4782008.513 | 124.212 | 101 |
| 2112 | 1 | 543719.794 | 4782012.795 | 124.877 | 101 |
| 2113 | 1 | 543749.716 | 4782030.741 | 124.456 | 300 |
| 2114 | 1 | 543758.432 | 4782016.125 | 119.884 | 611 |
| 2115 | 1 | 543759.197 | 4782014.143 | 119.818 | 313 |
| 2116 | 1 | 543750.020 | 4782011.925 | 119.904 | 611 |
| 2117 | 1 | 543650.771 | 4782014.633 | 133.948 | 101 |
| 2118 | 1 | 543650.607 | 4782015.125 | 133.581 | 102 I |
| 2119 | 1 | 543732.473 | 4782000.019 | 119.816 | 611 |
| 2120 | 1 | 543641.590 | 4782012.815 | 134.344 | 101 |
| 2121 | 1 | 543635.585 | 4782012.127 | 134.389 | 318 |
| 2122 | 1 | 543635.449 | 4782012.541 | 134.347 | 101 |
| 2123 | 1 | 543638.183 | 4782013.681 | 133.523 | 102 |
| 2124 | 1 | 543717.165 | 4781995.218 | 119.512 | 102 I |
| 2125 | 1 | 543636.834 | 4782012.919 | 133.620 | 102 |
| 2126 | 1 | 543722.085 | 4781996.706 | 119.681 | 101 |
| 2127 | 1 | 543727.036 | 4781999.460 | 119.663 | 101 |
| 2128 | 1 | 543630.299 | 4782014.727 | 133.561 | 700 I |
| 2129 | 1 | 543631.865 | 4782014.633 | 133.512 | 700 |
| 2130 | 1 | 543631.845 | 4782013.647 | 133.787 | 700 |
| 2131 | 1 | 543630.243 | 4782013.753 | 133.894 | 700 C |
| 2132 | 1 | 543716.991 | 4782000.157 | 119.713 | 102 I |
| 2133 | 1 | 543624.890 | 4782014.134 | 133.576 | 328 |
| 2134 | 1 | 543731.491 | 4782005.288 | 119.858 | 611 |
| 2135 | 1 | 543656.834 | 4781970.656 | 120.554 | 314 I |
| 2136 | 1 | 543730.708 | 4782006.810 | 119.648 | 101 |

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| 2137 | 1 | 543730.604 | 4782007.182 | 119.520 | 102 I |
| 2138 | 1 | 543736.533 | 4782010.164 | 119.601 | 102,101 |
| 2139 | 1 | 543737.216 | 4782009.790 | 119.789 | 611 |
| 2140 | 1 | 543608.609 | 4782014.455 | 134.023 | 102 |
| 2141 | 1 | 543747.876 | 4782015.265 | 119.669 | 611 |
| 2142 | 1 | 543747.357 | 4782016.098 | 119.662 | 611 |
| 2143 | 1 | 543747.074 | 4782016.673 | 119.533 | 103 |
| 2144 | 1 | 543747.184 | 4782017.565 | 119.554 | 103 |
| 2145 | 1 | 543606.782 | 4782015.554 | 133.787 | 328 |
| 2146 | 1 | 543606.603 | 4782016.588 | 133.948 | 328 |
| 2147 | 1 | 543653.693 | 4781985.763 | 120.000 | 805 |
| 2148 | 1 | 543739.219 | 4782019.692 | 119.759 | 705 |
| 2149 | 1 | 543742.853 | 4782019.295 | 119.621 | 653 |
| 2150 | 1 | 543597.819 | 4782017.605 | 134.102 | 102 |
| 2151 | 1 | 543744.344 | 4782020.865 | 119.578 | 000 |
| 2152 | 1 | 543709.878 | 4781988.879 | 119.870 | 611 |
| 2153 | 1 | 543695.130 | 4781981.923 | 119.452 | 102 |
| 2154 | 1 | 543748.849 | 4782008.626 | 119.514 | 816 |
| 2155 | 1 | 543748.952 | 4782008.762 | 119.536 | 102 |
| 2156 | 1 | 543668.496 | 4781974.447 | 119.651 | 102 |
| 2157 | 1 | 543654.726 | 4781971.925 | 119.633 | 102 |
| 2158 | 1 | 543645.647 | 4781968.003 | 120.212 | 313 I |
| 2159 | 1 | 543775.323 | 4782025.075 | 120.025 | 816 |
| 2160 | 1 | 543672.931 | 4781975.147 | 120.794 | 309 |
| 2161 | 1 | 543792.056 | 4782041.892 | 119.525 | 816 |
| 2162 | 1 | 543679.651 | 4781976.537 | 119.671 | 311 |
| 2163 | 1 | 543680.360 | 4781976.962 | 119.722 | 804 |
| 2164 | 1 | 543801.607 | 4782046.978 | 119.329 | 314 |
| 2165 | 1 | 543713.467 | 4781988.703 | 119.262 | 311 |
| 2166 | 1 | 543714.879 | 4781986.514 | 119.481 | 313 |
| 2167 | 1 | 543716.973 | 4781996.948 | 119.819 | 101 I |
| 2168 | 1 | 543708.668 | 4781991.673 | 119.940 | 500 |
| 2169 | 1 | 543706.331 | 4781990.520 | 119.703 | 804 |
| 2170 | 1 | 543762.963 | 4782020.211 | 117.655 | 103 |
| 2171 | 1 | 543720.470 | 4781992.196 | 119.211 | 102 I |
| 2172 | 1 | 543742.963 | 4782005.691 | 119.697 | 101 |
| 2173 | 1 | 543668.131 | 4781976.331 | 120.148 | 605 |
| 2174 | 1 | 543657.976 | 4781971.105 | 119.696 | 313 |
| 2175 | 1 | 543791.147 | 4782045.951 | 119.067 | 661 |
| 2176 | 1 | 543692.604 | 4781980.605 | 119.471 | 311 |
| 2177 | 1 | 543702.226 | 4781984.118 | 119.442 | 311 |
| 2178 | 1 | 543708.364 | 4781986.173 | 119.507 | 804 |
| 2179 | 1 | 543820.664 | 4782059.410 | 118.965 | 655 |
| 2180 | 1 | 543823.475 | 4782064.514 | 118.712 | 101 I |
| 2181 | 1 | 543807.116 | 4782052.780 | 119.200 | 611 |
| 2182 | 1 | 543799.700 | 4782048.097 | 119.243 | 611 |
| 2183 | 1 | 543609.357 | 4781975.086 | 120.339 | 315 |
| 2184 | 1 | 543790.447 | 4782044.776 | 118.978 | 102 |
| 2185 | 1 | 543785.182 | 4782042.226 | 119.286 | 660 |
| 2186 | 1 | 544222.019 | 4782261.434 | 105.534 | E-5 |
| 2187 | 1 | 543678.398 | 4781991.311 | 119.892 | 805 |
| 2188 | 1 | 543777.351 | 4782033.217 | 119.073 | 661 |
| 2189 | 1 | 544245.318 | 4782284.823 | 113.020 | 315 |
| 2190 | 1 | 544249.268 | 4782285.136 | 113.075 | 705 |
| 2191 | 1 | 544249.996 | 4782284.398 | 113.037 | 400 I |
| 2192 | 1 | 544251.939 | 4782285.008 | 113.048 | 400 |
| 2193 | 1 | 544255.922 | 4782285.355 | 113.038 | 741 |
| 2194 | 1 | 543764.463 | 4782025.767 | 119.516 | 611 |
| 2195 | 1 | 544274.188 | 4782290.495 | 113.028 | 741 |
| 2196 | 1 | 543758.375 | 4782023.093 | 119.566 | 611 |
| 2197 | 1 | 544292.362 | 4782297.257 | 113.091 | 318 I, 313 I |

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| 2198 | 1 | 544276.780 | 4782293.824 | 113.109 | 705 |
| 2199 | 1 | 543892.023 | 4782098.626 | 117.253 | 311 I |
| 2200 | 1 | 544275.590 | 4782293.689 | 113.133 | 705 |
| 2201 | 1 | 543731.615 | 4781996.326 | 119.950 | 313 |
| 2202 | 1 | 543731.851 | 4781995.929 | 120.002 | 313,300 |
| 2203 | 1 | 543889.433 | 4782094.412 | 116.804 | 311 |
| 2204 | 1 | 544244.294 | 4782286.454 | 112.990 | 309 I |
| 2205 | 1 | 543729.511 | 4781994.896 | 119.860 | 313 |
| 2206 | 1 | 543716.659 | 4782001.471 | 119.960 | 611 I |
| 2207 | 1 | 543881.025 | 4782084.541 | 114.493 | 311 |
| 2208 | 1 | 543877.844 | 4782081.561 | 113.634 | 311 |
| 2209 | 1 | 543875.507 | 4782079.462 | 113.046 | 311 |
| 2210 | 1 | 544231.627 | 4782281.879 | 109.239 | 102 |
| 2211 | 1 | 544236.065 | 4782283.957 | 110.726 | 102 |
| 2212 | 1 | 543786.045 | 4782033.739 | 119.968 | 326 |
| 2213 | 1 | 543680.766 | 4781989.469 | 120.144 | 605 |
| 2214 | 1 | 544247.994 | 4782287.902 | 113.174 | 331 |
| 2215 | 1 | 544239.550 | 4782282.540 | 111.190 | 318 |
| 2216 | 1 | 544229.225 | 4782278.501 | 108.669 | 318 |
| 2217 | 1 | 543780.819 | 4782033.345 | 120.989 | 326 I |
| 2218 | 1 | 543780.167 | 4782032.965 | 120.986 | 326 |
| 2219 | 1 | 544135.325 | 4782222.476 | 106.582 | 300 I |
| 2220 | 1 | 544135.056 | 4782224.170 | 107.249 | 313 |
| 2221 | 1 | 543668.545 | 4781985.340 | 120.170 | 611 |
| 2222 | 1 | 544132.815 | 4782228.780 | 109.741 | 313 I |
| 2223 | 1 | 543676.456 | 4781986.990 | 120.138 | 611 |
| 2224 | 1 | 544126.938 | 4782226.328 | 108.955 | 313 |
| 2225 | 1 | 544132.647 | 4782223.482 | 107.843 | 101 I,102 I |
| 2226 | 1 | 543886.987 | 4782091.063 | 112.756 | 313 I |
| 2227 | 1 | 543884.763 | 4782088.463 | 112.762 | 313 |
| 2228 | 1 | 543881.711 | 4782085.182 | 112.788 | 313 |
| 2229 | 1 | 544122.694 | 4782218.465 | 107.871 | 101 |
| 2230 | 1 | 543759.718 | 4782015.257 | 119.045 | 313 |
| 2231 | 1 | 543494.412 | 4781940.199 | 122.682 | 309 I,313 I |
| 2232 | 1 | 543725.849 | 4781997.613 | 119.823 | 605 I |
| 2233 | 1 | 543500.345 | 4781943.401 | 121.127 | 309 I,300 I |
| 2234 | 1 | 543495.961 | 4781941.212 | 122.274 | 331 I |
| 2235 | 1 | 543530.768 | 4781950.330 | 119.521 | 315 |
| 2236 | 1 | 543563.257 | 4781962.102 | 116.099 | 327 I |
| 2237 | 1 | 543563.276 | 4781962.462 | 116.007 | 605 I |
| 2238 | 1 | 543684.781 | 4781978.289 | 119.567 | 102 |
| 2239 | 1 | 543545.722 | 4781956.433 | 118.183 | 327 |
| 2240 | 1 | 543528.178 | 4781950.783 | 119.669 | 327 |
| 2241 | 1 | 543755.961 | 4782013.325 | 119.595 | 102,102 |
| 2242 | 1 | 543518.323 | 4781946.415 | 120.466 | 501 |
| 2243 | 1 | 543512.110 | 4781945.989 | 120.502 | 605 |
| 2244 | 1 | 543508.308 | 4781957.761 | 120.800 | 605 |
| 2245 | 1 | 543654.250 | 4781973.620 | 120.185 | 605 |
| 2246 | 1 | 543507.253 | 4781960.207 | 120.808 | 741 |
| 2247 | 1 | 543511.804 | 4781945.958 | 120.509 | 605 |
| 2248 | 1 | 543505.168 | 4781943.875 | 120.729 | 605 |
| 2249 | 1 | 543500.502 | 4781943.497 | 121.124 | 327 |
| 2250 | 1 | 543503.389 | 4781943.105 | 120.976 | 705 |
| 2251 | 1 | 543506.655 | 4781942.802 | 120.835 | 772 |
| 2252 | 1 | 543498.557 | 4781955.581 | 120.976 | 300 I |
| 2253 | 1 | 543784.090 | 4782030.869 | 120.099 | 816 |
| 2254 | 1 | 543513.734 | 4781969.756 | 119.695 | 605 I |
| 2255 | 1 | 543519.581 | 4781961.929 | 119.583 | 706 |
| 2256 | 1 | 543671.309 | 4781974.856 | 119.703 | 309 I |
| 2257 | 1 | 543516.828 | 4781961.598 | 120.769 | 327 |
| 2258 | 1 | 543516.491 | 4781961.590 | 120.647 | 605 |

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|--------|-------|------------|-------------|----------|-----------|
| 2259 | 1 | 543518.199 | 4781959.035 | 120.476 | 327 |
| 2260 | 1 | 543520.732 | 4781956.982 | 119.942 | 741 |
| 2261 | 1 | 543705.968 | 4781983.568 | 120.377 | 658 |
| 2262 | 1 | 543521.736 | 4781956.564 | 119.858 | 605 |
| 2263 | 1 | 543521.761 | 4781957.094 | 119.916 | 410 |
| 2264 | 1 | 543525.877 | 4781957.729 | 119.634 | 410 |
| 2265 | 1 | 543524.396 | 4781956.620 | 119.698 | 605 |
| 2266 | 1 | 543818.154 | 4782058.082 | 118.945 | 816 |
| 2267 | 1 | 543819.591 | 4782058.628 | 118.976 | 655 |
| 2268 | 1 | 543554.381 | 4781967.938 | 116.955 | 805 |
| 2269 | 1 | 543824.316 | 4782063.067 | 118.928 | 611 I |
| 2270 | 1 | 543519.088 | 4781962.586 | 120.843 | 300 |
| 2271 | 1 | 543519.552 | 4781956.478 | 120.113 | 705 |
| 2272 | 1 | 543520.970 | 4781953.535 | 120.034 | 751 |
| 2273 | 1 | 543514.940 | 4781952.464 | 120.506 | 103 |
| 2274 | 1 | 543695.695 | 4781987.955 | 119.817 | 103 |
| 2275 | 1 | 543694.432 | 4781986.680 | 119.926 | 658 |
| 2276 | 1 | 543563.792 | 4781969.651 | 115.826 | 327 I |
| 2277 | 1 | 543565.631 | 4781970.258 | 115.524 | 327 |
| 2278 | 1 | 543807.378 | 4782052.164 | 118.992 | 113 |
| 2279 | 1 | 543576.030 | 4781973.562 | 115.143 | 327 |
| 2280 | 1 | 543669.121 | 4781978.466 | 119.993 | 657 |
| 2281 | 1 | 543584.604 | 4781976.679 | 114.797 | 327 |
| 2282 | 1 | 543799.229 | 4782048.990 | 119.269 | 611 |
| 2283 | 1 | 543591.974 | 4781979.615 | 114.322 | 605 |
| 2284 | 1 | 543793.798 | 4782042.988 | 119.127 | 103 |
| 2285 | 1 | 543595.962 | 4781980.083 | 114.137 | 605 |
| 2286 | 1 | 543599.167 | 4781979.388 | 113.961 | 605 |
| 2287 | 1 | 543599.299 | 4781979.707 | 114.063 | 327 |
| 2288 | 1 | 543602.494 | 4781977.887 | 113.747 | 605 |
| 2289 | 1 | 543607.113 | 4781975.407 | 113.450 | 313 I |
| 2290 | 1 | 543786.928 | 4782039.964 | 119.353 | 403 |
| 2291 | 1 | 543606.167 | 4781977.550 | 113.618 | 705 |
| 2292 | 1 | 543606.059 | 4781976.433 | 113.563 | 771 |
| 2293 | 1 | 543605.004 | 4781976.012 | 113.597 | 410 |
| 2294 | 1 | 543594.390 | 4781982.078 | 114.353 | 313 |
| 2295 | 1 | 543591.648 | 4781981.973 | 114.454 | 811 |
| 2296 | 1 | 543588.947 | 4781982.877 | 114.599 | 313 |
| 2297 | 1 | 543582.800 | 4781980.800 | 117.603 | 309 |
| 2298 | 1 | 543581.887 | 4781983.454 | 119.397 | 309 |
| 2299 | 1 | 543579.724 | 4781982.665 | 119.448 | 309,300 I |
| 2300 | 1 | 544258.845 | 4782286.942 | 113.097 | 400 |
| 2301 | 1 | 543582.942 | 4781982.440 | 118.515 | 706 |
| 2302 | 1 | 543580.540 | 4781980.241 | 117.655 | 309 |
| 2303 | 1 | 543581.232 | 4781978.046 | 117.656 | 309 |
| 2304 | 1 | 543767.898 | 4782025.672 | 119.221 | 651 |
| 2305 | 1 | 543760.433 | 4782021.987 | 119.522 | 101 |
| 2306 | 1 | 543581.225 | 4781977.843 | 115.000 | 313,300 I |
| 2307 | 1 | 543569.004 | 4781973.939 | 115.521 | 300 |
| 2308 | 1 | 543733.807 | 4782019.025 | 119.928 | 317 |
| 2309 | 1 | 543580.531 | 4781976.712 | 114.997 | 705 |
| 2310 | 1 | 543580.951 | 4781975.941 | 114.950 | 705 |
| 2311 | 1 | 543584.862 | 4781977.362 | 114.782 | 705 |
| 2312 | 1 | 543584.877 | 4781978.407 | 114.796 | 705 |
| 2313 | 1 | 544281.372 | 4782295.303 | 113.182 | 400 I |
| 2314 | 1 | 544277.325 | 4782293.885 | 113.136 | 705 |
| 2315 | 1 | 543598.520 | 4781979.675 | 113.994 | 741 |
| 2316 | 1 | 543602.229 | 4781977.366 | 113.732 | 801 |
| 2317 | 1 | 543598.483 | 4781979.504 | 114.004 | 739 I |
| 2318 | 1 | 543594.770 | 4781974.255 | 114.070 | 705 |
| 2319 | 1 | 544268.277 | 4782292.453 | 113.210 | 706 |

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| 2320 | 1 | 543595.232 | 4781973.403 | 114.115 | 327 I |
| 2321 | 1 | 543595.296 | 4781973.237 | 114.116 | 313 I |
| 2322 | 1 | 543886.183 | 4782090.053 | 115.976 | 311 |
| 2323 | 1 | 543591.739 | 4781972.318 | 114.493 | 327 |
| 2324 | 1 | 543779.865 | 4782033.052 | 119.760 | 311 |
| 2325 | 1 | 543586.606 | 4781968.528 | 114.845 | 313 |
| 2326 | 1 | 543587.927 | 4781970.505 | 114.709 | 327 |
| 2327 | 1 | 543587.835 | 4781970.842 | 114.603 | 605 |
| 2328 | 1 | 543583.843 | 4781967.164 | 114.964 | 313 |
| 2329 | 1 | 544226.644 | 4782277.544 | 107.453 | 309 |
| 2330 | 1 | 543578.356 | 4781967.283 | 115.027 | 605 |
| 2331 | 1 | 543568.088 | 4781963.966 | 115.537 | 605 |
| 2332 | 1 | 543568.046 | 4781963.592 | 115.624 | 327 |
| 2333 | 1 | 543566.898 | 4781963.419 | 115.597 | 741 |
| 2334 | 1 | 543565.977 | 4781967.456 | 115.608 | 731 |
| 2335 | 1 | 543680.574 | 4781990.186 | 119.880 | 101 |
| 2336 | 1 | 543681.272 | 4781987.524 | 119.892 | 103 |
| 2337 | 1 | 543599.528 | 4781972.252 | 113.604 | 605 I |
| 2338 | 1 | 543605.018 | 4781965.842 | 113.006 | 313 |
| 2339 | 1 | 543672.753 | 4781987.290 | 120.167 | 605 |
| 2340 | 1 | 543612.402 | 4781961.643 | 112.316 | 327 |
| 2341 | 1 | 543612.536 | 4781961.955 | 112.141 | 605 |
| 2342 | 1 | 543780.843 | 4782031.754 | 119.995 | 611 |
| 2343 | 1 | 543621.301 | 4781954.665 | 111.399 | 327 |
| 2344 | 1 | 543629.173 | 4781956.075 | 111.287 | 327 I |
| 2345 | 1 | 543626.335 | 4781957.808 | 111.284 | 605 I |
| 2346 | 1 | 544135.118 | 4782223.891 | 107.249 | 309, 313 |
| 2347 | 1 | 543614.343 | 4781967.728 | 112.605 | 327 |
| 2348 | 1 | 543607.834 | 4781974.698 | 113.343 | 313 |
| 2349 | 1 | 543607.177 | 4781975.359 | 116.832 | 314 I |
| 2350 | 1 | 543596.541 | 4781972.253 | 117.036 | 314 |
| 2351 | 1 | 543770.032 | 4782021.081 | 119.064 | 309 |
| 2352 | 1 | 543633.565 | 4781957.637 | 111.295 | 327 |
| 2353 | 1 | 543771.111 | 4782022.668 | 119.816 | 313 |
| 2354 | 1 | 543631.634 | 4781959.574 | 111.323 | 313 |
| 2355 | 1 | 543621.680 | 4781954.054 | 111.362 | 327 I |
| 2356 | 1 | 543621.597 | 4781949.292 | 111.247 | 327 |
| 2357 | 1 | 543621.931 | 4781949.280 | 111.118 | 605 I |
| 2358 | 1 | 543766.647 | 4782021.410 | 119.960 | 611 |
| 2359 | 1 | 543621.080 | 4781953.825 | 111.374 | 706 |
| 2360 | 1 | 543623.841 | 4781951.341 | 111.210 | 103 |
| 2361 | 1 | 543628.915 | 4781958.113 | 111.361 | 501 |
| 2362 | 1 | 543628.316 | 4781958.635 | 115.166 | 314 I |
| 2363 | 1 | 543620.479 | 4781954.607 | 115.843 | 314 |
| 2364 | 1 | 543641.480 | 4782013.880 | 133.484 | 102 |
| 2365 | 1 | 543637.661 | 4781971.017 | 112.086 | 313 |
| 2366 | 1 | 543630.869 | 4781975.395 | 112.484 | 313 |
| 2367 | 1 | 543620.536 | 4781978.551 | 113.012 | 313 |
| 2368 | 1 | 543637.897 | 4782013.235 | 133.551 | 102 |
| 2369 | 1 | 543625.497 | 4781973.387 | 112.509 | 313 |
| 2370 | 1 | 543631.760 | 4782013.536 | 133.531 | 102 |
| 2371 | 1 | 543726.610 | 4782000.023 | 119.571 | 102 |
| 2372 | 1 | 543635.469 | 4781967.638 | 111.963 | 313 |
| 2373 | 1 | 543640.166 | 4781963.166 | 111.486 | 313, 307 |
| 2374 | 1 | 543642.593 | 4781965.170 | 116.281 | 314 |
| 2375 | 1 | 543721.168 | 4781998.204 | 119.856 | 101 |
| 2376 | 1 | 543717.883 | 4781997.469 | 119.810 | 101 |
| 2377 | 1 | 543717.771 | 4781998.295 | 120.007 | 611 I |
| 2378 | 1 | 543627.360 | 4782012.324 | 134.558 | 101, 318 |
| 2379 | 1 | 543626.388 | 4782013.833 | 133.705 | 102 |
| 2380 | 1 | 543589.214 | 4781983.625 | 119.721 | 314 I |

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| 2381 | 1 | 543594.331 | 4781982.884 | 119.835 | 314 |
| 2382 | 1 | 543605.946 | 4781981.150 | 119.558 | 314 |
| 2383 | 1 | 543582.054 | 4781989.094 | 121.813 | 102 I |
| 2384 | 1 | 543614.914 | 4782015.677 | 133.787 | 328 |
| 2385 | 1 | 543614.569 | 4782014.548 | 133.853 | 102 |
| 2386 | 1 | 543614.366 | 4782013.115 | 134.723 | 101,318 |
| 2387 | 1 | 543608.848 | 4782013.716 | 134.770 | 101,318 |
| 2388 | 1 | 543603.082 | 4781993.432 | 127.718 | 101 |
| 2389 | 1 | 543607.149 | 4781988.710 | 123.802 | 101 |
| 2390 | 1 | 543607.420 | 4782014.565 | 133.980 | 102 |
| 2391 | 1 | 543606.897 | 4782015.295 | 133.987 | 102 |
| 2392 | 1 | 543580.813 | 4781980.085 | 117.643 | 006 |
| 2393 | 1 | 543573.825 | 4782002.617 | 126.561 | 006 |
| 2394 | 1 | 543589.646 | 4781980.511 | 114.535 | 313 I |
| 2395 | 1 | 543588.387 | 4781980.090 | 114.611 | 313 |
| 2396 | 1 | 543742.384 | 4782018.080 | 119.587 | 705 |
| 2397 | 1 | 543580.424 | 4781987.943 | 121.236 | 309 |
| 2398 | 1 | 543579.710 | 4781989.995 | 121.263 | 309 |
| 2399 | 1 | 543664.319 | 4781988.175 | 119.779 | 324 I |
| 2400 | 1 | 543578.276 | 4781994.497 | 123.057 | 309 |
| 2401 | 1 | 543745.515 | 4782021.717 | 119.174 | 000 |
| 2402 | 1 | 543576.879 | 4781998.988 | 124.739 | 309 |
| 2403 | 1 | 543576.086 | 4782001.395 | 126.585 | 309 |
| 2404 | 1 | 543573.727 | 4782001.135 | 126.670 | 300 I |
| 2405 | 1 | 543574.644 | 4781998.324 | 124.802 | 309 I |
| 2406 | 1 | 543576.107 | 4781993.821 | 123.082 | 309 |
| 2407 | 1 | 543747.111 | 4782018.695 | 119.686 | 611 |
| 2408 | 1 | 543579.026 | 4781984.740 | 119.455 | 309,300 |
| 2409 | 1 | 543572.224 | 4782004.113 | 126.593 | 327 I |
| 2410 | 1 | 543821.970 | 4782068.931 | 118.832 | 102 |
| 2411 | 1 | 543839.785 | 4782078.795 | 118.381 | 102 |
| 2412 | 1 | 543572.531 | 4782011.797 | 126.697 | 313 I |
| 2413 | 1 | 543870.840 | 4782096.024 | 117.571 | 102 |
| 2414 | 1 | 543574.258 | 4782009.388 | 126.713 | 313 |
| 2415 | 1 | 543576.874 | 4782006.552 | 126.709 | 313 |
| 2416 | 1 | 543729.828 | 4782011.725 | 119.725 | 326 |
| 2417 | 1 | 543574.721 | 4782007.949 | 126.708 | 401 |
| 2418 | 1 | 543576.103 | 4782006.837 | 126.695 | 402 |
| 2419 | 1 | 543725.860 | 4782007.148 | 119.888 | 611 |
| 2420 | 1 | 543797.265 | 4782055.470 | 129.217 | 101 |
| 2421 | 1 | 543576.190 | 4782001.417 | 126.578 | 331 |
| 2422 | 1 | 543717.557 | 4782000.997 | 119.793 | 101 |
| 2423 | 1 | 543892.736 | 4782107.979 | 116.695 | 101 |
| 2424 | 1 | 543580.579 | 4781990.446 | 121.359 | 741 |
| 2425 | 1 | 543580.747 | 4781991.266 | 121.222 | 317 I |
| 2426 | 1 | 543579.604 | 4781994.583 | 122.835 | 317 |
| 2427 | 1 | 543576.568 | 4782001.561 | 126.360 | 811 |
| 2428 | 1 | 543928.967 | 4782132.722 | 117.551 | 315 |
| 2429 | 1 | 543945.025 | 4782141.070 | 116.320 | 315 |
| 2430 | 1 | 543577.638 | 4782003.676 | 126.588 | 705 |
| 2431 | 1 | 543975.496 | 4782157.477 | 116.627 | 315 |
| 2432 | 1 | 543863.630 | 4782093.036 | 122.988 | 101 I |
| 2433 | 1 | 543877.494 | 4782100.917 | 121.828 | 101 |
| 2434 | 1 | 543728.301 | 4782012.215 | 119.687 | 103 |
| 2435 | 1 | 544139.053 | 4782243.317 | 115.899 | 101 I |
| 2436 | 1 | 543598.807 | 4782005.191 | 132.740 | 309 |
| 2437 | 1 | 543601.489 | 4782006.588 | 134.607 | 309 |
| 2438 | 1 | 544175.106 | 4782264.730 | 122.476 | 101 |
| 2439 | 1 | 544185.191 | 4782266.777 | 120.606 | 101 |
| 2440 | 1 | 543599.449 | 4782004.083 | 132.727 | 331 |
| 2441 | 1 | 544195.988 | 4782266.981 | 113.770 | 101 |

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| 2442 | 1 | 543589.688 | 4782003.909 | 130.591 | 331 |
| 2443 | 1 | 543580.731 | 4782006.224 | 128.852 | 331 |
| 2444 | 1 | 544212.679 | 4782271.262 | 111.270 | 314 |
| 2445 | 1 | 544213.101 | 4782270.854 | 109.380 | 314 |
| 2446 | 1 | 543576.120 | 4782011.596 | 129.004 | 102 |
| 2447 | 1 | 543752.418 | 4782025.277 | 118.873 | 102,313 I |
| 2448 | 1 | 543577.821 | 4782006.961 | 127.332 | 706 |
| 2449 | 1 | 543580.252 | 4782011.349 | 131.686 | 101 I |
| 2450 | 1 | 543584.413 | 4782008.365 | 132.212 | 101 |
| 2451 | 1 | 543586.495 | 4782007.651 | 132.393 | 101 |
| 2452 | 1 | 543578.323 | 4782005.094 | 127.594 | 314 I |
| 2453 | 1 | 543582.542 | 4782001.004 | 126.423 | 314 |
| 2454 | 1 | 544211.801 | 4782269.512 | 109.201 | 329 |
| 2455 | 1 | 543603.413 | 4782006.862 | 134.815 | 006 |
| 2456 | 1 | 543756.383 | 4782028.426 | 118.838 | 313 |
| 2457 | 1 | 543756.937 | 4782028.757 | 118.829 | 313 |
| 2458 | 1 | 544227.221 | 4782275.859 | 108.613 | 329 |
| 2459 | 1 | 544229.479 | 4782277.353 | 108.509 | 102 I,101 I |
| 2460 | 1 | 543631.387 | 4782011.862 | 134.518 | 317 |
| 2461 | 1 | 543655.144 | 4782014.262 | 133.616 | 317 |
| 2462 | 1 | 543645.047 | 4782012.240 | 134.310 | 402 |
| 2463 | 1 | 543640.885 | 4782011.451 | 134.522 | 401 |
| 2464 | 1 | 543755.664 | 4782033.055 | 118.940 | 328 |
| 2465 | 1 | 543625.159 | 4782011.132 | 134.639 | 401 |
| 2466 | 1 | 543621.247 | 4782011.977 | 134.617 | 402 |
| 2467 | 1 | 543759.880 | 4782035.833 | 118.914 | 328 |
| 2468 | 1 | 543616.736 | 4782011.726 | 134.697 | 401 |
| 2469 | 1 | 544283.368 | 4782291.399 | 107.108 | 329 |
| 2470 | 1 | 543598.075 | 4782011.671 | 135.067 | 110 |
| 2471 | 1 | 544271.990 | 4782288.597 | 107.020 | 329 |
| 2472 | 1 | 543605.643 | 4782005.591 | 134.675 | 100 I |
| 2473 | 1 | 543763.966 | 4782036.169 | 118.825 | 103 |
| 2474 | 1 | 543613.841 | 4782008.950 | 134.919 | 110 |
| 2475 | 1 | 543618.009 | 4782008.702 | 134.734 | 110 |
| 2476 | 1 | 543620.938 | 4782004.904 | 134.507 | 771 |
| 2477 | 1 | 543624.599 | 4782004.441 | 134.574 | 706 |
| 2478 | 1 | 543628.013 | 4782004.584 | 134.396 | 211 |
| 2479 | 1 | 543628.770 | 4782003.051 | 134.355 | 100 |
| 2480 | 1 | 543638.203 | 4782004.036 | 134.240 | 100 |
| 2481 | 1 | 543767.161 | 4782035.454 | 119.183 | 326 |
| 2482 | 1 | 543769.176 | 4782036.532 | 119.206 | 326 |
| 2483 | 1 | 543651.420 | 4782011.038 | 134.236 | 103 |
| 2484 | 1 | 543638.748 | 4782008.818 | 134.575 | 110 |
| 2485 | 1 | 543634.693 | 4782008.526 | 134.462 | 110 |
| 2486 | 1 | 543630.447 | 4782008.300 | 134.572 | 110 |
| 2487 | 1 | 543655.282 | 4782014.831 | 133.257 | 102 I |
| 2488 | 1 | 543761.468 | 4782028.974 | 119.545 | 611 |
| 2489 | 1 | 543638.478 | 4782016.594 | 133.543 | 609 |
| 2490 | 1 | 543636.949 | 4782013.358 | 133.566 | 811 |
| 2491 | 1 | 543776.240 | 4782034.487 | 119.437 | 611 |
| 2492 | 1 | 543628.519 | 4782016.640 | 133.636 | 609 |
| 2493 | 1 | 543765.444 | 4782028.925 | 119.517 | 611 |
| 2494 | 1 | 543630.287 | 4782014.789 | 133.633 | 605 I |
| 2495 | 1 | 543621.301 | 4782015.296 | 133.753 | 605 |
| 2496 | 1 | 543764.014 | 4782028.190 | 119.573 | 611 |
| 2497 | 1 | 543758.522 | 4782025.349 | 119.575 | 611 |
| 2498 | 1 | 543614.625 | 4782017.393 | 133.805 | 609 |
| 2499 | 1 | 543613.898 | 4782015.799 | 133.840 | 605 |
| 2500 | 1 | 543608.064 | 4782014.816 | 134.003 | 811 |
| 2501 | 1 | 543603.359 | 4782016.138 | 133.863 | 327 |
| 2502 | 1 | 543603.521 | 4782017.032 | 133.976 | 605 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 2503 | 1 | 543604.240 | 4782019.196 | 133.956 | 609 |
| 2504 | 1 | 543753.766 | 4782023.851 | 119.626 | 611 I |
| 2505 | 1 | 543594.112 | 4782019.122 | 134.043 | 327 |
| 2506 | 1 | 543599.058 | 4782016.764 | 134.153 | 501 |
| 2507 | 1 | 543612.979 | 4781977.696 | 122.037 | 006 |
| 2508 | 1 | 543769.855 | 4782035.255 | 119.211 | Insertado |
| 2509 | 1 | 543801.683 | 4782047.912 | 118.945 | Insertado |
| 2510 | 1 | 543783.669 | 4782036.319 | 119.140 | Insertado |
| 2511 | 1 | 543784.653 | 4782037.227 | 119.160 | Insertado |
| 2512 | 1 | 543886.220 | 4782090.029 | 112.758 | Insertado |
| 2513 | 1 | 543891.200 | 4782097.269 | 115.832 | Insertado |
| 2514 | 1 | 543890.287 | 4782095.762 | 115.702 | Insertado |
| 2515 | 1 | 543889.265 | 4782094.134 | 114.322 | Insertado |
| 2516 | 1 | 543888.396 | 4782092.963 | 114.293 | Insertado |
| 2517 | 1 | 543899.616 | 4782102.799 | 116.272 | Insertado |
| 2518 | 1 | 543895.998 | 4782099.654 | 116.150 | Insertado |
| 2519 | 1 | 543896.985 | 4782100.129 | 116.150 | Insertado |
| 2520 | 1 | 543975.399 | 4782157.652 | 116.627 | Insertado |
| 2521 | 1 | 543965.641 | 4782140.638 | 114.810 | Insertado |
| 2522 | 1 | 543950.031 | 4782131.432 | 115.110 | Insertado |
| 2523 | 1 | 543949.000 | 4782131.221 | 115.110 | Insertado |
| 2524 | 1 | 543939.326 | 4782125.730 | 115.680 | Insertado |
| 2525 | 1 | 543936.034 | 4782123.887 | 115.610 | Insertado |
| 2526 | 1 | 543930.270 | 4782120.653 | 115.800 | Insertado |
| 2527 | 1 | 543922.868 | 4782116.446 | 116.030 | Insertado |
| 2528 | 1 | 543913.757 | 4782111.273 | 116.300 | Insertado |
| 2529 | 1 | 543906.212 | 4782106.954 | 116.510 | Insertado |
| 2530 | 1 | 543904.194 | 4782105.823 | 116.570 | Insertado |
| 2531 | 1 | 543900.848 | 4782103.982 | 116.580 | Insertado |
| 2532 | 1 | 543899.364 | 4782103.185 | 116.620 | Insertado |
| 2533 | 1 | 544009.760 | 4782165.317 | 113.850 | Insertado |
| 2534 | 1 | 544002.283 | 4782161.213 | 113.950 | Insertado |
| 2535 | 1 | 543996.718 | 4782158.170 | 114.180 | Insertado |
| 2536 | 1 | 543987.021 | 4782152.749 | 114.410 | Insertado |
| 2537 | 1 | 543978.702 | 4782148.058 | 114.560 | Insertado |
| 2538 | 1 | 544132.206 | 4782229.520 | 110.720 | Insertado |
| 2539 | 1 | 544124.646 | 4782225.793 | 110.850 | Insertado |
| 2540 | 1 | 544116.611 | 4782221.756 | 111.060 | Insertado |
| 2541 | 1 | 544108.067 | 4782217.437 | 111.310 | Insertado |
| 2542 | 1 | 544100.537 | 4782213.394 | 111.420 | Insertado |
| 2543 | 1 | 544090.559 | 4782208.190 | 111.750 | Insertado |
| 2544 | 1 | 544083.999 | 4782204.896 | 111.960 | Insertado |
| 2545 | 1 | 544071.319 | 4782198.173 | 112.100 | Insertado |
| 2546 | 1 | 544062.250 | 4782193.401 | 112.450 | Insertado |
| 2547 | 1 | 544052.691 | 4782188.352 | 112.770 | Insertado |
| 2548 | 1 | 544040.444 | 4782181.885 | 112.900 | Insertado |
| 2549 | 1 | 544030.306 | 4782176.547 | 113.180 | Insertado |
| 2550 | 1 | 544020.518 | 4782171.232 | 113.540 | Insertado |
| 2551 | 1 | 543892.770 | 4782098.839 | 117.213 | 006 |
| 2552 | 1 | 543884.044 | 4782094.108 | 116.171 | 006 |
| 2553 | 1 | 543902.218 | 4782118.219 | 119.285 | 313 I |
| 2554 | 1 | 543899.418 | 4782116.642 | 119.354 | 313,300 I |
| 2555 | 1 | 543898.254 | 4782118.694 | 119.348 | 300 |
| 2556 | 1 | 543899.612 | 4782116.255 | 120.355 | 300,314 I |
| 2557 | 1 | 543902.461 | 4782117.857 | 120.323 | 314 |
| 2558 | 1 | 543902.280 | 4782118.126 | 119.270 | 310 I |
| 2559 | 1 | 543909.558 | 4782122.228 | 119.883 | 310 |
| 2560 | 1 | 543918.613 | 4782127.326 | 120.554 | 310 |
| 2561 | 1 | 543927.456 | 4782132.316 | 121.168 | 310 |
| 2562 | 1 | 543929.223 | 4782133.308 | 121.190 | 310 |
| 2563 | 1 | 543926.844 | 4782137.559 | 121.405 | 310 |

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|--------|-------|------------|-------------|----------|--------|
| 2564 | 1 | 543924.564 | 4782137.404 | 121.472 | 310 I |
| 2565 | 1 | 543926.261 | 4782134.378 | 121.194 | 310 |
| 2566 | 1 | 543917.802 | 4782129.555 | 120.568 | 310 |
| 2567 | 1 | 543908.365 | 4782124.278 | 119.890 | 310 |
| 2568 | 1 | 543901.017 | 4782120.197 | 119.241 | 310 |
| 2569 | 1 | 543894.813 | 4782120.381 | 119.556 | 313 I |
| 2570 | 1 | 543899.850 | 4782121.731 | 119.282 | 331 I |
| 2571 | 1 | 543906.812 | 4782127.184 | 119.236 | 313 |
| 2572 | 1 | 543912.561 | 4782130.395 | 119.117 | 313 |
| 2573 | 1 | 543909.269 | 4782126.985 | 119.220 | 331 |
| 2574 | 1 | 543910.199 | 4782125.397 | 119.229 | 331 |
| 2575 | 1 | 543912.695 | 4782130.460 | 119.095 | 327 I |
| 2576 | 1 | 543913.290 | 4782130.238 | 119.125 | 327 |
| 2577 | 1 | 543913.293 | 4782130.662 | 119.029 | 605 I |
| 2578 | 1 | 543922.648 | 4782135.941 | 118.800 | 605 |
| 2579 | 1 | 543922.904 | 4782135.618 | 118.904 | 327 |
| 2580 | 1 | 543923.514 | 4782136.502 | 118.917 | 327 |
| 2581 | 1 | 543923.214 | 4782136.656 | 118.820 | 605 |
| 2582 | 1 | 543923.224 | 4782138.414 | 118.842 | 605 |
| 2583 | 1 | 543923.541 | 4782138.632 | 118.946 | 327 |
| 2584 | 1 | 543925.987 | 4782134.798 | 118.994 | 313 I |
| 2585 | 1 | 543926.181 | 4782134.429 | 119.017 | 313 |
| 2586 | 1 | 543919.965 | 4782130.823 | 119.032 | 313 |
| 2587 | 1 | 543910.466 | 4782125.545 | 119.244 | 313 |
| 2588 | 1 | 543914.382 | 4782128.398 | 119.158 | 401 |
| 2589 | 1 | 543918.466 | 4782130.601 | 119.057 | 402 |
| 2590 | 1 | 543922.425 | 4782132.961 | 118.979 | 401 |
| 2591 | 1 | 543923.990 | 4782134.317 | 118.955 | 772 |
| 2592 | 1 | 543924.212 | 4782134.128 | 118.975 | 736 |
| 2593 | 1 | 543921.949 | 4782134.210 | 118.956 | 806 |
| 2594 | 1 | 543924.444 | 4782135.772 | 118.949 | 806 |
| 2595 | 1 | 543922.606 | 4782135.631 | 118.798 | 741 |
| 2596 | 1 | 543922.218 | 4782134.793 | 118.952 | 811 |
| 2597 | 1 | 543915.190 | 4782131.538 | 118.945 | 741 |
| 2598 | 1 | 543912.372 | 4782130.747 | 119.147 | 313 I |
| 2599 | 1 | 543904.892 | 4782126.571 | 120.597 | 313 |
| 2600 | 1 | 543895.330 | 4782121.250 | 120.669 | 313 |
| 2601 | 1 | 543896.241 | 4782126.411 | 120.997 | 313 |
| 2602 | 1 | 543895.759 | 4782126.536 | 120.870 | 313 |
| 2603 | 1 | 543894.907 | 4782121.575 | 119.857 | 313 |
| 2604 | 1 | 543894.376 | 4782123.224 | 120.113 | 706 |
| 2605 | 1 | 543891.974 | 4782124.810 | 120.382 | 313 I |
| 2606 | 1 | 543889.948 | 4782118.719 | 119.101 | 313 |
| 2607 | 1 | 543888.636 | 4782114.661 | 118.368 | 313 |
| 2608 | 1 | 543895.417 | 4782118.926 | 119.496 | 410 |
| 2609 | 1 | 543895.554 | 4782120.107 | 119.498 | 805 |
| 2610 | 1 | 543897.233 | 4782121.143 | 119.385 | 931 |
| 2611 | 1 | 543898.120 | 4782121.526 | 119.334 | 806 |
| 2612 | 1 | 543897.926 | 4782122.104 | 119.335 | 739 I |
| 2613 | 1 | 543898.799 | 4782122.578 | 119.275 | 739 |
| 2614 | 1 | 543898.344 | 4782118.911 | 119.360 | 739 |
| 2615 | 1 | 543899.567 | 4782116.769 | 119.369 | 739 |
| 2616 | 1 | 543901.823 | 4782118.008 | 119.243 | 739 I |
| 2617 | 1 | 543900.737 | 4782119.880 | 119.239 | 739 |
| 2618 | 1 | 543901.096 | 4782120.243 | 119.244 | 309 I |
| 2619 | 1 | 543900.179 | 4782121.857 | 119.282 | 309 |
| 2620 | 1 | 543897.564 | 4782121.771 | 119.370 | 812 |
| 2621 | 1 | 543903.315 | 4782123.526 | 117.628 | 309 |
| 2622 | 1 | 543904.611 | 4782124.224 | 117.582 | 309 |
| 2623 | 1 | 543907.640 | 4782125.862 | 116.137 | 309 |
| 2624 | 1 | 543909.201 | 4782125.490 | 116.016 | 705 |

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| 2625 | 1 | 543895.944 | 4782117.628 | 119.436 | 330 |
| 2626 | 1 | 543909.285 | 4782126.862 | 116.018 | 313 I |
| 2627 | 1 | 543904.389 | 4782103.555 | 112.660 | 313 |
| 2628 | 1 | 543901.627 | 4782101.791 | 112.694 | 313 I |
| 2629 | 1 | 543902.432 | 4782101.867 | 112.709 | 805 |
| 2630 | 1 | 543903.162 | 4782101.820 | 112.698 | 706 |
| 2631 | 1 | 543903.442 | 4782101.299 | 112.702 | 770 |
| 2632 | 1 | 543904.021 | 4782100.199 | 112.694 | 805 |
| 2633 | 1 | 543906.108 | 4782101.084 | 112.693 | 309 I |
| 2634 | 1 | 543904.629 | 4782103.522 | 112.658 | 309 |
| 2635 | 1 | 543904.687 | 4782103.739 | 112.373 | 313 I |
| 2636 | 1 | 543906.785 | 4782104.922 | 110.997 | 309 |
| 2637 | 1 | 543908.334 | 4782102.447 | 111.015 | 309 |
| 2638 | 1 | 543909.452 | 4782103.132 | 110.979 | 309 |
| 2639 | 1 | 543907.912 | 4782105.628 | 110.969 | 309 |
| 2640 | 1 | 543910.384 | 4782107.285 | 109.249 | 313 |
| 2641 | 1 | 543910.088 | 4782107.004 | 109.459 | 309 |
| 2642 | 1 | 543909.309 | 4782106.322 | 110.001 | 706 |
| 2643 | 1 | 543901.246 | 4782101.588 | 112.696 | 313 I |
| 2644 | 1 | 543891.866 | 4782095.276 | 112.848 | 313 I |
| 2645 | 1 | 543888.186 | 4782090.173 | 112.710 | 313,309 I |
| 2646 | 1 | 543889.551 | 4782092.107 | 114.293 | 309 |
| 2647 | 1 | 543890.390 | 4782093.300 | 114.322 | 309 |
| 2648 | 1 | 543891.460 | 4782095.051 | 115.702 | 309 |
| 2649 | 1 | 543892.386 | 4782096.550 | 115.832 | 309 |
| 2650 | 1 | 543893.404 | 4782098.420 | 117.240 | 309 |
| 2651 | 1 | 543893.739 | 4782099.411 | 116.978 | 309 |
| 2652 | 1 | 543894.459 | 4782099.653 | 116.906 | 309 |
| 2653 | 1 | 543895.410 | 4782098.105 | 115.790 | 314 I |
| 2654 | 1 | 543891.973 | 4782095.579 | 115.799 | 314 |
| 2655 | 1 | 543891.690 | 4782098.683 | 117.139 | 327 I |
| 2656 | 1 | 543891.255 | 4782098.430 | 117.138 | 605 I |
| 2657 | 1 | 543891.586 | 4782098.701 | 117.138 | 313 I |
| 2658 | 1 | 543889.163 | 4782094.481 | 116.730 | 327 |
| 2659 | 1 | 543888.961 | 4782094.671 | 116.759 | 605 |
| 2660 | 1 | 543885.764 | 4782090.440 | 115.901 | 605 |
| 2661 | 1 | 543878.842 | 4782091.675 | 113.934 | 313 |
| 2662 | 1 | 543878.785 | 4782091.728 | 115.197 | 313 |
| 2663 | 1 | 543880.505 | 4782084.736 | 114.412 | 605 |
| 2664 | 1 | 543877.572 | 4782081.948 | 113.599 | 605 |
| 2665 | 1 | 543875.228 | 4782079.991 | 112.999 | 605 |
| 2666 | 1 | 543875.295 | 4782079.628 | 112.944 | 327 I |
| 2667 | 1 | 543873.237 | 4782077.776 | 112.620 | 327 |
| 2668 | 1 | 543872.600 | 4782077.748 | 112.439 | 605 |
| 2669 | 1 | 543871.583 | 4782076.640 | 112.426 | 309 I |
| 2670 | 1 | 543864.013 | 4782071.881 | 110.690 | 309 |
| 2671 | 1 | 543863.940 | 4782072.042 | 110.692 | 327 |
| 2672 | 1 | 543863.825 | 4782072.308 | 110.511 | 605 |
| 2673 | 1 | 543857.355 | 4782068.140 | 109.054 | 605 |
| 2674 | 1 | 543857.434 | 4782067.866 | 109.199 | 327 |
| 2675 | 1 | 543857.547 | 4782067.801 | 109.207 | 309 |
| 2676 | 1 | 543858.280 | 4782066.626 | 109.219 | 309 |
| 2677 | 1 | 543857.796 | 4782066.320 | 108.911 | 300 I |
| 2678 | 1 | 543865.743 | 4782071.782 | 110.907 | 770 |
| 2679 | 1 | 543870.363 | 4782075.565 | 112.059 | 805 |
| 2680 | 1 | 543871.668 | 4782075.551 | 112.272 | 735 |
| 2681 | 1 | 543872.487 | 4782076.506 | 112.426 | 806 |
| 2682 | 1 | 543868.980 | 4782073.392 | 111.683 | 300 |
| 2683 | 1 | 543883.413 | 4782082.521 | 112.745 | 300 |
| 2684 | 1 | 543879.040 | 4782082.135 | 112.792 | 809 |
| 2685 | 1 | 543891.470 | 4782087.697 | 112.727 | 300 |

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| 2686 | 1 | 543890.352 | 4782089.417 | 112.713 | 300 |
| 2687 | 1 | 543899.635 | 4782098.638 | 112.646 | 741 |
| 2688 | 1 | 543900.175 | 4782097.617 | 112.672 | 705 |
| 2689 | 1 | 543897.267 | 4782097.612 | 112.680 | 809 |
| 2690 | 1 | 543896.011 | 4782096.552 | 112.682 | 770 |
| 2691 | 1 | 543895.513 | 4782095.803 | 112.701 | 805 |
| 2692 | 1 | 543890.275 | 4782090.494 | 112.718 | 806 |
| 2693 | 1 | 543889.513 | 4782089.202 | 112.708 | 705 |
| 2694 | 1 | 543888.652 | 4782089.750 | 112.710 | 741 |
| 2695 | 1 | 543887.672 | 4782087.087 | 112.716 | 805 |
| 2696 | 1 | 543882.934 | 4782082.823 | 112.754 | 771 |
| 2697 | 1 | 543883.155 | 4782082.493 | 112.749 | 770 |
| 2698 | 1 | 543878.999 | 4782091.419 | 115.061 | 605 I |
| 2699 | 1 | 543875.254 | 4782087.702 | 114.029 | 605 |
| 2700 | 1 | 543872.598 | 4782088.194 | 114.023 | 313 I |
| 2701 | 1 | 543872.933 | 4782086.704 | 113.789 | 313 |
| 2702 | 1 | 543878.725 | 4782091.596 | 114.922 | 327 I |
| 2703 | 1 | 543875.775 | 4782088.666 | 114.145 | 327 |
| 2704 | 1 | 543872.372 | 4782085.320 | 113.181 | 327,313 |
| 2705 | 1 | 543876.545 | 4782079.895 | 112.802 | 809 |
| 2706 | 1 | 543877.451 | 4782080.454 | 112.824 | 805 |
| 2707 | 1 | 543879.335 | 4782080.269 | 112.810 | 706 |
| 2708 | 1 | 543893.946 | 4782091.656 | 112.756 | 300 I |
| 2709 | 1 | 543897.897 | 4782094.063 | 112.757 | 300 |
| 2710 | 1 | 543901.384 | 4782096.337 | 112.752 | 300 |
| 2711 | 1 | 543900.600 | 4782097.711 | 112.706 | 300 |
| 2712 | 1 | 543904.885 | 4782100.335 | 112.723 | 300 |
| 2713 | 1 | 543896.069 | 4782117.404 | 119.410 | 300 I |
| 2714 | 1 | 543897.380 | 4782115.017 | 119.156 | 300 |
| 2715 | 1 | 543898.695 | 4782115.758 | 119.176 | 300,313 I |
| 2716 | 1 | 543898.541 | 4782113.558 | 118.918 | 313 |
| 2717 | 1 | 543895.228 | 4782111.264 | 118.290 | 313,317 I |
| 2718 | 1 | 543888.783 | 4782114.428 | 118.345 | 317 |
| 2719 | 1 | 543890.794 | 4782120.335 | 119.378 | 739 I |
| 2720 | 1 | 543896.577 | 4782112.233 | 118.606 | 739 |
| 2721 | 1 | 543870.894 | 4782087.208 | 114.396 | 313 I |
| 2722 | 1 | 543872.112 | 4782085.388 | 114.258 | 314 I |
| 2723 | 1 | 543861.899 | 4782078.560 | 114.226 | 314 |
| 2724 | 1 | 543860.619 | 4782081.385 | 114.514 | 313 |
| 2725 | 1 | 543848.031 | 4782074.176 | 114.101 | 313,317 I |
| 2726 | 1 | 543851.539 | 4782070.886 | 113.878 | 314,317 |
| 2727 | 1 | 543874.539 | 4782080.210 | 112.981 | 931 |
| 2728 | 1 | 543848.454 | 4782066.948 | 113.037 | 317 |
| 2729 | 1 | 543848.087 | 4782064.553 | 112.574 | 317 |
| 2730 | 1 | 543844.441 | 4782060.872 | 112.562 | 317 |
| 2731 | 1 | 543841.637 | 4782061.295 | 113.518 | 317 |
| 2732 | 1 | 543839.515 | 4782060.897 | 114.118 | 317 |
| 2733 | 1 | 543833.364 | 4782065.776 | 114.515 | 317 |
| 2734 | 1 | 543870.250 | 4782083.133 | 112.709 | 605 I |
| 2735 | 1 | 543870.124 | 4782083.351 | 112.636 | 313 I |
| 2736 | 1 | 543871.087 | 4782084.033 | 112.850 | 740 |
| 2737 | 1 | 543848.371 | 4782058.828 | 107.448 | 313 I |
| 2738 | 1 | 543849.105 | 4782059.918 | 107.449 | 309 I |
| 2739 | 1 | 543849.004 | 4782062.719 | 109.090 | 309 |
| 2740 | 1 | 543848.213 | 4782062.651 | 109.082 | 313 |
| 2741 | 1 | 543848.228 | 4782064.404 | 110.292 | 313 |
| 2742 | 1 | 543849.099 | 4782064.373 | 110.294 | 309 |
| 2743 | 1 | 543849.269 | 4782065.768 | 110.347 | 309 |
| 2744 | 1 | 543848.460 | 4782065.885 | 110.365 | 313 |
| 2745 | 1 | 543849.227 | 4782068.461 | 112.112 | 313 |
| 2746 | 1 | 543849.963 | 4782068.267 | 112.094 | 309 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 2747 | 1 | 543850.573 | 4782069.722 | 113.290 | 309 |
| 2748 | 1 | 543850.227 | 4782070.638 | 113.628 | 313 |
| 2749 | 1 | 543850.619 | 4782071.390 | 113.733 | 313 |
| 2750 | 1 | 543851.454 | 4782070.681 | 113.683 | 313 |
| 2751 | 1 | 543850.895 | 4782070.139 | 113.619 | 313,309 |
| 2752 | 1 | 543858.202 | 4782075.951 | 110.103 | 313 I |
| 2753 | 1 | 543858.323 | 4782075.536 | 110.218 | 605 |
| 2754 | 1 | 543853.652 | 4782072.498 | 109.268 | 605 |
| 2755 | 1 | 543853.407 | 4782072.824 | 109.142 | 313 |
| 2756 | 1 | 543850.783 | 4782069.682 | 108.627 | 313 |
| 2757 | 1 | 543850.528 | 4782067.996 | 108.536 | 605 |
| 2758 | 1 | 543849.536 | 4782064.209 | 108.083 | 605 |
| 2759 | 1 | 543849.443 | 4782066.015 | 108.135 | 313 |
| 2760 | 1 | 543849.331 | 4782059.742 | 107.453 | 313,327 I |
| 2761 | 1 | 543849.701 | 4782060.143 | 107.413 | 605 |
| 2762 | 1 | 543851.034 | 4782056.515 | 106.742 | 605 |
| 2763 | 1 | 543850.736 | 4782056.190 | 106.852 | 327 |
| 2764 | 1 | 543852.853 | 4782051.388 | 106.111 | 327 |
| 2765 | 1 | 543853.294 | 4782051.225 | 105.935 | 605 |
| 2766 | 1 | 543853.715 | 4782049.285 | 105.784 | 605 |
| 2767 | 1 | 543853.312 | 4782049.440 | 105.815 | 327 |
| 2768 | 1 | 543853.185 | 4782047.457 | 105.895 | 327 |
| 2769 | 1 | 543851.149 | 4782050.829 | 106.246 | 300 I |
| 2770 | 1 | 543845.211 | 4782055.816 | 107.430 | 300 |
| 2771 | 1 | 543847.991 | 4782058.653 | 107.440 | 300 |
| 2772 | 1 | 543848.575 | 4782057.159 | 107.194 | 805 |
| 2773 | 1 | 543848.303 | 4782055.096 | 106.989 | 706 |
| 2774 | 1 | 543856.513 | 4782067.421 | 108.790 | 741 |
| 2775 | 1 | 543857.257 | 4782067.755 | 109.152 | 327 I |
| 2776 | 1 | 543857.021 | 4782068.017 | 108.998 | 605 I |
| 2777 | 1 | 543855.551 | 4782065.259 | 108.277 | 605 |
| 2778 | 1 | 543855.838 | 4782064.982 | 108.432 | 327 |
| 2779 | 1 | 543855.492 | 4782062.177 | 107.789 | 327 |
| 2780 | 1 | 543855.241 | 4782062.027 | 107.539 | 605 |
| 2781 | 1 | 543856.666 | 4782058.926 | 106.737 | 605 |
| 2782 | 1 | 543856.935 | 4782059.073 | 106.927 | 327 |
| 2783 | 1 | 543859.079 | 4782057.333 | 106.211 | 327 |
| 2784 | 1 | 543858.963 | 4782057.054 | 106.046 | 605 |
| 2785 | 1 | 543861.211 | 4782056.278 | 105.660 | 605 |
| 2786 | 1 | 543861.068 | 4782056.545 | 105.689 | 327 |
| 2787 | 1 | 543863.860 | 4782056.505 | 105.529 | 327 |
| 2788 | 1 | 543862.084 | 4782059.530 | 105.690 | 300 I |
| 2789 | 1 | 543859.748 | 4782057.133 | 105.852 | 309 I |
| 2790 | 1 | 543860.903 | 4782059.564 | 105.837 | 309 |
| 2791 | 1 | 543858.835 | 4782060.181 | 106.756 | 309 |
| 2792 | 1 | 543857.141 | 4782062.079 | 107.633 | 309 |
| 2793 | 1 | 543857.198 | 4782064.527 | 108.429 | 309 |
| 2794 | 1 | 543857.311 | 4782065.899 | 108.761 | 706 |
| 2795 | 1 | 543856.440 | 4782065.146 | 108.445 | 706 |
| 2796 | 1 | 543857.386 | 4782058.737 | 106.742 | 501 |
| 2797 | 1 | 543859.393 | 4782057.483 | 106.039 | 501 |
| 2798 | 1 | 543861.738 | 4782059.221 | 105.723 | 731 |
| 2799 | 1 | 543861.790 | 4782058.389 | 105.688 | 731 |
| 2800 | 1 | 543859.202 | 4782056.755 | 105.987 | 560 I |
| 2801 | 1 | 543862.094 | 4782056.069 | 105.580 | 560 |
| 2802 | 1 | 543862.399 | 4782055.678 | 105.528 | 560 |
| 2803 | 1 | 543855.197 | 4782049.520 | 105.746 | 560 |
| 2804 | 1 | 543853.328 | 4782051.712 | 105.985 | 560 C |
| 2805 | 1 | 543885.996 | 4782090.214 | 115.850 | Insertado |
| 2806 | 1 | 543880.864 | 4782084.698 | 114.372 | Insertado |
| 2807 | 1 | 543877.694 | 4782081.727 | 113.510 | Insertado |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 2808 | 1 | 543911.682 | 4782104.497 | 109.393 | Insertado |
| 2809 | 1 | 543912.786 | 4782108.745 | 109.153 | Insertado |
| 2810 | 1 | 543914.286 | 4782106.337 | 109.093 | Insertado |
| 2811 | 1 | 543858.093 | 4782076.119 | 114.270 | Insertado |
| 2812 | 1 | 543850.431 | 4782071.925 | 113.770 | Insertado |
| 2813 | 1 | 543853.273 | 4782072.975 | 114.250 | Insertado |
| 2814 | 1 | 543869.983 | 4782083.578 | 114.260 | Insertado |
| 2815 | 1 | 543872.654 | 4782086.727 | 114.320 | Insertado |
| 2816 | 1 | 543872.356 | 4782088.054 | 114.370 | Insertado |
| 2817 | 1 | 543872.307 | 4782075.496 | 112.426 | Insertado |
| 2818 | 1 | 544196.436 | 4782254.012 | 108.870 | Insertado |
| 2819 | 1 | 543924.541 | 4782137.391 | 118.900 | Insertado |
| 2820 | 1 | 544185.245 | 4782250.237 | 109.250 | Insertado |
| 2821 | 1 | 543910.187 | 4782125.299 | 116.021 | Insertado |
| 2822 | 1 | 544177.846 | 4782248.127 | 109.590 | Insertado |
| 2823 | 1 | 543908.487 | 4782124.347 | 116.137 | Insertado |
| 2824 | 1 | 544162.434 | 4782242.637 | 109.890 | Insertado |
| 2825 | 1 | 544163.567 | 4782242.931 | 108.900 | Insertado |
| 2826 | 1 | 544165.479 | 4782243.196 | 109.840 | Insertado |
| 2827 | 1 | 544159.730 | 4782241.131 | 109.980 | Insertado |
| 2828 | 1 | 544158.057 | 4782240.025 | 109.970 | Insertado |
| 2829 | 1 | 544153.384 | 4782237.601 | 110.180 | Insertado |
| 2830 | 1 | 544145.176 | 4782233.387 | 110.410 | Insertado |
| 2831 | 1 | 544140.173 | 4782231.221 | 110.520 | Insertado |
| 2832 | 1 | 544260.040 | 4782276.646 | 108.150 | Insertado |
| 2833 | 1 | 544285.614 | 4782282.317 | 107.600 | Insertado |
| 2834 | 1 | 544281.654 | 4782281.867 | 107.620 | Insertado |
| 2835 | 1 | 544304.944 | 4782286.981 | 107.020 | Insertado |
| 2836 | 1 | 544266.519 | 4782277.254 | 107.950 | Insertado |
| 2837 | 1 | 544263.180 | 4782276.402 | 107.920 | Insertado |
| 2838 | 1 | 544219.885 | 4782263.404 | 105.467 | 313 I |
| 2839 | 1 | 544219.985 | 4782263.154 | 105.414 | 329 I |
| 2840 | 1 | 544208.308 | 4782257.744 | 105.276 | 329 |
| 2841 | 1 | 544208.256 | 4782258.029 | 105.258 | 313 |
| 2842 | 1 | 544195.836 | 4782252.877 | 105.065 | 313 |
| 2843 | 1 | 544195.928 | 4782252.546 | 105.106 | 329 |
| 2844 | 1 | 544185.738 | 4782249.048 | 104.789 | 329 |
| 2845 | 1 | 544186.219 | 4782249.549 | 104.745 | 313 |
| 2846 | 1 | 544177.097 | 4782247.242 | 104.554 | 313 |
| 2847 | 1 | 544171.222 | 4782244.507 | 104.367 | 313 |
| 2848 | 1 | 544171.398 | 4782244.244 | 104.400 | 329 |
| 2849 | 1 | 544169.506 | 4782242.982 | 104.368 | 329 |
| 2850 | 1 | 544169.284 | 4782243.274 | 104.313 | 313 |
| 2851 | 1 | 544167.459 | 4782240.835 | 104.287 | 313 |
| 2852 | 1 | 544167.657 | 4782240.690 | 104.325 | 329 |
| 2853 | 1 | 544166.530 | 4782236.899 | 104.262 | 329 |
| 2854 | 1 | 544166.311 | 4782237.069 | 104.231 | 313 |
| 2855 | 1 | 544200.366 | 4782248.795 | 105.333 | 300 I |
| 2856 | 1 | 544203.642 | 4782250.333 | 105.391 | 770 |
| 2857 | 1 | 544221.462 | 4782257.550 | 105.467 | 300 |
| 2858 | 1 | 544221.600 | 4782257.268 | 105.475 | 300 |
| 2859 | 1 | 544225.594 | 4782259.139 | 105.426 | 741 |
| 2860 | 1 | 544225.667 | 4782259.393 | 105.538 | 329 I |
| 2861 | 1 | 544225.877 | 4782259.194 | 105.479 | 102 I |
| 2862 | 1 | 544237.178 | 4782264.148 | 105.868 | 329 |
| 2863 | 1 | 544237.243 | 4782263.907 | 105.791 | 102 |
| 2864 | 1 | 544237.302 | 4782263.737 | 105.894 | 300 |
| 2865 | 1 | 544246.133 | 4782267.375 | 106.226 | 300 |
| 2866 | 1 | 544246.087 | 4782267.558 | 106.125 | 102 |
| 2867 | 1 | 544246.014 | 4782267.760 | 106.181 | 329 |
| 2868 | 1 | 544258.223 | 4782268.278 | 106.541 | 317 I |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 2869 | 1 | 544256.688 | 4782273.988 | 106.623 | 317,113 I |
| 2870 | 1 | 544246.367 | 4782271.325 | 106.294 | 113 |
| 2871 | 1 | 544237.167 | 4782268.661 | 106.011 | 113 |
| 2872 | 1 | 544237.342 | 4782267.129 | 105.950 | 805 |
| 2873 | 1 | 544226.237 | 4782265.009 | 105.528 | 113 |
| 2874 | 1 | 544223.000 | 4782264.401 | 105.455 | 113,313 I |
| 2875 | 1 | 544222.714 | 4782264.310 | 105.473 | 313 |
| 2876 | 1 | 544219.483 | 4782274.499 | 105.508 | 313,309 I |
| 2877 | 1 | 544218.690 | 4782276.230 | 105.531 | 309,313 I |
| 2878 | 1 | 544217.449 | 4782275.681 | 105.519 | 313 |
| 2879 | 1 | 544216.739 | 4782274.678 | 105.511 | 313 |
| 2880 | 1 | 544216.627 | 4782273.588 | 105.509 | 313 |
| 2881 | 1 | 544217.029 | 4782274.012 | 105.514 | 706 |
| 2882 | 1 | 544217.597 | 4782274.232 | 105.513 | 706 |
| 2883 | 1 | 544218.185 | 4782274.446 | 105.514 | 706 |
| 2884 | 1 | 544218.826 | 4782274.615 | 105.515 | 706 |
| 2885 | 1 | 544223.166 | 4782264.725 | 108.445 | 114 I |
| 2886 | 1 | 544228.923 | 4782266.381 | 108.065 | 114 |
| 2887 | 1 | 544242.031 | 4782270.697 | 107.906 | 114 |
| 2888 | 1 | 544249.913 | 4782272.575 | 107.599 | 114 |
| 2889 | 1 | 544255.641 | 4782273.914 | 107.396 | 114 |
| 2890 | 1 | 544171.919 | 4782237.063 | 104.295 | 300 I |
| 2891 | 1 | 544249.865 | 4782267.143 | 106.298 | 329,311 I |
| 2892 | 1 | 544249.942 | 4782267.068 | 105.982 | 113 I |
| 2893 | 1 | 544255.656 | 4782267.028 | 105.942 | 113 |
| 2894 | 1 | 544255.600 | 4782267.340 | 106.494 | 311 |
| 2895 | 1 | 544258.176 | 4782267.563 | 106.523 | 311,317 I |
| 2896 | 1 | 544258.220 | 4782267.220 | 105.467 | 113 |
| 2897 | 1 | 544252.007 | 4782266.444 | 105.809 | 300 I |
| 2898 | 1 | 544256.458 | 4782265.775 | 105.723 | 300 |
| 2899 | 1 | 544256.830 | 4782265.806 | 105.560 | 311 I |
| 2900 | 1 | 544256.683 | 4782266.748 | 105.552 | 311 |
| 2901 | 1 | 544257.743 | 4782267.006 | 105.493 | 311 |
| 2902 | 1 | 544258.008 | 4782265.915 | 105.523 | 311,331 I |
| 2903 | 1 | 544257.718 | 4782266.942 | 105.364 | 309 I |
| 2904 | 1 | 544257.932 | 4782265.687 | 104.734 | 309 |
| 2905 | 1 | 544256.995 | 4782265.458 | 104.836 | 309 |
| 2906 | 1 | 544258.363 | 4782266.198 | 105.535 | 811 |
| 2907 | 1 | 544263.624 | 4782268.358 | 105.368 | 113 |
| 2908 | 1 | 544263.786 | 4782267.700 | 105.363 | 331 |
| 2909 | 1 | 544275.438 | 4782271.486 | 105.055 | 331 |
| 2910 | 1 | 544275.847 | 4782272.370 | 105.023 | 113 |
| 2911 | 1 | 544288.500 | 4782276.163 | 104.854 | 113 |
| 2912 | 1 | 544289.193 | 4782275.726 | 104.862 | 331 |
| 2913 | 1 | 544301.609 | 4782279.473 | 104.902 | 331 |
| 2914 | 1 | 544301.569 | 4782280.048 | 104.921 | 300 I |
| 2915 | 1 | 544299.699 | 4782279.449 | 104.947 | 300 |
| 2916 | 1 | 544299.276 | 4782281.163 | 105.011 | 300 |
| 2917 | 1 | 544298.604 | 4782280.334 | 104.857 | 805 |
| 2918 | 1 | 544257.495 | 4782262.234 | 104.868 | 300 |
| 2919 | 1 | 544264.815 | 4782264.315 | 104.356 | 300 |
| 2920 | 1 | 544265.211 | 4782262.981 | 103.721 | 300 I |
| 2921 | 1 | 544265.644 | 4782261.520 | 103.753 | 300 |
| 2922 | 1 | 544279.197 | 4782265.346 | 102.851 | 300 |
| 2923 | 1 | 544288.291 | 4782267.951 | 101.883 | 300 |
| 2924 | 1 | 544279.643 | 4782272.261 | 102.644 | 330 I |
| 2925 | 1 | 544292.111 | 4782275.171 | 102.654 | 330 |
| 2926 | 1 | 544302.065 | 4782277.343 | 102.660 | 330,313 I |
| 2927 | 1 | 544301.612 | 4782279.402 | 102.631 | 313 |
| 2928 | 1 | 544287.773 | 4782275.224 | 102.631 | 313 |
| 2929 | 1 | 544277.358 | 4782272.049 | 102.833 | 313 |

**LISTADO DE PUNTOS
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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 2930 | 1 | 544267.619 | 4782268.857 | 103.808 | 313 |
| 2931 | 1 | 544258.027 | 4782265.846 | 104.695 | 313 |
| 2932 | 1 | 544268.362 | 4782265.273 | 103.798 | 310 I |
| 2933 | 1 | 544273.805 | 4782266.827 | 103.269 | 310 |
| 2934 | 1 | 544303.169 | 4782272.513 | 100.761 | 313 I |
| 2935 | 1 | 544302.114 | 4782277.072 | 101.030 | 313 |
| 2936 | 1 | 544292.782 | 4782275.225 | 101.367 | 313 |
| 2937 | 1 | 544282.972 | 4782272.994 | 102.352 | 313 |
| 2938 | 1 | 544267.096 | 4782269.894 | 106.736 | 113 |
| 2939 | 1 | 544279.648 | 4782274.082 | 107.135 | 113 |
| 2940 | 1 | 544289.694 | 4782277.117 | 107.348 | 113 |
| 2941 | 1 | 544274.590 | 4782264.046 | 103.270 | Insertado |
| 2942 | 1 | 544288.344 | 4782267.770 | 101.897 | 310 I |
| 2943 | 1 | 544294.166 | 4782269.469 | 100.951 | 310 |
| 2944 | 1 | 544294.458 | 4782268.683 | 100.587 | 310 |
| 2945 | 1 | 544290.334 | 4782260.985 | 100.631 | 300 I |
| 2946 | 1 | 544296.092 | 4782262.414 | 100.629 | 300 |
| 2947 | 1 | 544296.023 | 4782262.693 | 100.619 | 300 I |
| 2948 | 1 | 544288.421 | 4782267.509 | 100.639 | 313 I |
| 2949 | 1 | 544294.029 | 4782269.128 | 100.611 | 313 |
| 2950 | 1 | 544294.978 | 4782265.639 | 100.529 | 705 |
| 2951 | 1 | 544295.402 | 4782266.366 | 100.528 | 740 |
| 2952 | 1 | 544296.700 | 4782268.521 | 100.575 | 739 I |
| 2953 | 1 | 544301.102 | 4782269.789 | 100.576 | 739 |
| 2954 | 1 | 544300.226 | 4782263.842 | 100.597 | 300 |
| 2955 | 1 | 544304.420 | 4782248.989 | 99.970 | 300 |
| 2956 | 1 | 544304.662 | 4782247.929 | 99.949 | 300 |
| 2957 | 1 | 544304.625 | 4782247.095 | 99.928 | 300 |
| 2958 | 1 | 544304.974 | 4782243.328 | 99.727 | 327 I |
| 2959 | 1 | 544305.026 | 4782242.857 | 99.651 | 605 I |
| 2960 | 1 | 544306.443 | 4782243.316 | 99.649 | 741 |
| 2961 | 1 | 544310.691 | 4782244.608 | 99.734 | 327 |
| 2962 | 1 | 544310.432 | 4782244.085 | 99.677 | 605 |
| 2963 | 1 | 544315.305 | 4782245.501 | 99.792 | 327 |
| 2964 | 1 | 544315.420 | 4782245.027 | 99.731 | 605 |
| 2965 | 1 | 544313.758 | 4782250.668 | 100.014 | 300 I |
| 2966 | 1 | 544313.295 | 4782251.545 | 99.990 | 300,330 I |
| 2967 | 1 | 544307.835 | 4782249.991 | 100.013 | 330 |
| 2968 | 1 | 544304.581 | 4782248.892 | 99.955 | 330 |
| 2969 | 1 | 544311.707 | 4782257.945 | 100.429 | 300 |
| 2970 | 1 | 544308.887 | 4782250.290 | 100.088 | 311 I |
| 2971 | 1 | 544306.823 | 4782258.363 | 100.628 | 311 |
| 2972 | 1 | 544307.366 | 4782273.632 | 100.537 | 300 |
| 2973 | 1 | 544303.776 | 4782272.648 | 100.493 | 300 |
| 2974 | 1 | 544304.566 | 4782267.667 | 100.594 | 311 |
| 2975 | 1 | 544291.143 | 4782277.144 | 104.888 | 114 I |
| 2976 | 1 | 544294.387 | 4782279.329 | 104.933 | 114 |
| 2977 | 1 | 544294.918 | 4782279.985 | 104.914 | 114,313 I |
| 2978 | 1 | 544298.195 | 4782280.961 | 104.704 | 313 |
| 2979 | 1 | 544294.068 | 4782279.546 | 107.257 | 113 I |
| 2980 | 1 | 544296.126 | 4782281.631 | 106.686 | 113 |
| 2981 | 1 | 544295.829 | 4782280.906 | 106.022 | 114 |
| 2982 | 1 | 544291.622 | 4782297.782 | 113.108 | 313 |
| 2983 | 1 | 544291.110 | 4782298.687 | 113.151 | 313 |
| 2984 | 1 | 544290.910 | 4782299.554 | 114.377 | 300 I |
| 2985 | 1 | 544286.126 | 4782297.601 | 113.170 | 313 |
| 2986 | 1 | 544284.219 | 4782296.733 | 113.140 | 309 I |
| 2987 | 1 | 544278.444 | 4782295.198 | 113.154 | 309 |
| 2988 | 1 | 544274.720 | 4782295.917 | 113.158 | 300 |
| 2989 | 1 | 544274.686 | 4782296.066 | 113.168 | 313 I |
| 2990 | 1 | 544273.804 | 4782295.848 | 113.194 | 313,309 I |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-------------|
| 2991 | 1 | 544272.452 | 4782295.850 | 114.510 | 706 |
| 2992 | 1 | 544270.263 | 4782295.083 | 115.181 | 309 |
| 2993 | 1 | 544270.047 | 4782295.978 | 115.767 | 309,330 I |
| 2994 | 1 | 544270.974 | 4782296.157 | 115.783 | 330 |
| 2995 | 1 | 544270.795 | 4782297.098 | 115.781 | 330,309 I |
| 2996 | 1 | 544270.206 | 4782299.764 | 117.341 | 309,330 I |
| 2997 | 1 | 544270.003 | 4782300.689 | 117.359 | 330 |
| 2998 | 1 | 544269.111 | 4782300.441 | 117.352 | 330,309 I |
| 2999 | 1 | 544268.179 | 4782300.271 | 117.822 | 309 |
| 3000 | 1 | 544267.561 | 4782303.082 | 119.647 | 309 |
| 3001 | 1 | 544266.420 | 4782302.969 | 119.664 | 309,300 I |
| 3002 | 1 | 544268.324 | 4782299.409 | 117.826 | 331 I |
| 3003 | 1 | 544268.477 | 4782298.599 | 117.819 | 331 |
| 3004 | 1 | 544268.493 | 4782298.551 | 117.635 | 331 |
| 3005 | 1 | 544268.258 | 4782294.771 | 117.634 | 300 |
| 3006 | 1 | 544269.456 | 4782293.907 | 117.620 | 331 |
| 3007 | 1 | 544260.343 | 4782291.857 | 117.608 | 331,309 I |
| 3008 | 1 | 544257.510 | 4782291.138 | 115.590 | 309 |
| 3009 | 1 | 544256.619 | 4782290.952 | 115.210 | 309 |
| 3010 | 1 | 544254.380 | 4782291.678 | 114.855 | 300,313 I |
| 3011 | 1 | 544251.549 | 4782288.766 | 114.071 | 313 |
| 3012 | 1 | 544249.432 | 4782287.296 | 113.116 | 313 |
| 3013 | 1 | 544248.755 | 4782288.228 | 113.099 | 309,313 |
| 3014 | 1 | 544250.602 | 4782288.075 | 113.251 | 313 I |
| 3015 | 1 | 544251.321 | 4782288.129 | 113.138 | 102 I |
| 3016 | 1 | 544254.438 | 4782288.907 | 113.169 | 102 |
| 3017 | 1 | 544255.487 | 4782290.207 | 113.700 | 313 |
| 3018 | 1 | 544258.996 | 4782290.863 | 113.163 | 102 |
| 3019 | 1 | 544260.409 | 4782291.779 | 113.148 | 313,309 I |
| 3020 | 1 | 544260.674 | 4782290.773 | 113.141 | 309 |
| 3021 | 1 | 544263.115 | 4782291.427 | 113.114 | 309 |
| 3022 | 1 | 544265.376 | 4782292.960 | 113.113 | 313 |
| 3023 | 1 | 544274.030 | 4782294.765 | 113.132 | 313 |
| 3024 | 1 | 544272.877 | 4782303.877 | 115.462 | 300 I |
| 3025 | 1 | 544222.401 | 4782277.775 | 107.432 | 313,309 I |
| 3026 | 1 | 544223.127 | 4782275.964 | 107.431 | 313 I,309 I |
| 3027 | 1 | 544177.295 | 4782246.858 | 104.554 | Insertado |
| 3028 | 1 | 544166.261 | 4782235.515 | 103.982 | Insertado |
| 3029 | 1 | 544166.460 | 4782235.510 | 103.970 | Insertado |
| 3030 | 1 | 544249.905 | 4782266.948 | 105.970 | Insertado |
| 3031 | 1 | 544285.938 | 4782298.437 | 113.170 | Insertado |
| 3032 | 1 | 544270.482 | 4782294.031 | 115.180 | Insertado |
| 3033 | 1 | 544269.271 | 4782294.877 | 115.180 | Insertado |
| 3034 | 1 | 544269.081 | 4782295.778 | 115.767 | Insertado |
| 3035 | 1 | 544268.887 | 4782296.702 | 115.780 | Insertado |
| 3036 | 1 | 544269.272 | 4782299.588 | 117.352 | Insertado |
| 3037 | 1 | 544269.861 | 4782296.894 | 115.781 | Insertado |
| 3038 | 1 | 544267.080 | 4782300.024 | 117.826 | Insertado |
| 3039 | 1 | 544262.891 | 4782292.369 | 113.110 | Insertado |
| 3040 | 1 | 544260.099 | 4782292.953 | 127.600 | Insertado |
| 3041 | 1 | 544257.247 | 4782292.317 | 115.590 | Insertado |
| 3042 | 1 | 544256.359 | 4782292.119 | 115.210 | Insertado |
| 3043 | 1 | 544250.665 | 4782290.039 | 114.070 | Insertado |
| 3044 | 1 | 544272.338 | 4782297.704 | 115.570 | Insertado |
| 3045 | 1 | 544271.645 | 4782300.295 | 116.470 | Insertado |
| 3047 | 1 | 544061.634 | 4782202.122 | 112.827 | Insertado |
| 3048 | 1 | 544066.443 | 4782204.578 | 112.394 | Insertado |
| 3049 | 1 | 544072.725 | 4782207.786 | 112.381 | Insertado |
| 3050 | 1 | 544080.486 | 4782211.959 | 112.144 | Insertado |
| 3051 | 1 | 544087.817 | 4782215.763 | 111.961 | Insertado |
| 3052 | 1 | 544088.170 | 4782216.104 | 111.953 | Insertado |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 3053 | 1 | 544089.148 | 4782216.698 | 111.865 | Insertado |
| 3054 | 1 | 544089.653 | 4782216.752 | 111.873 | Insertado |
| 3055 | 1 | 544096.822 | 4782220.423 | 111.767 | Insertado |
| 3056 | 1 | 544099.043 | 4782220.793 | 111.675 | Insertado |
| 3057 | 1 | 544100.055 | 4782221.920 | 111.651 | Insertado |
| 3058 | 1 | 544101.990 | 4782223.210 | 111.583 | Insertado |
| 3059 | 1 | 544105.072 | 4782224.687 | 111.573 | Insertado |
| 3060 | 1 | 544107.343 | 4782225.413 | 111.377 | Insertado |
| 3061 | 1 | 544092.928 | 4782208.449 | 111.880 | Insertado |
| 3062 | 1 | 544061.583 | 4782202.244 | 112.810 | Insertado |
| 3063 | 1 | 544263.574 | 4782268.783 | 106.620 | Insertado |
| 3064 | 1 | 544112.963 | 4782228.384 | 111.470 | Insertado |
| 3065 | 1 | 544256.653 | 4782290.753 | 113.720 | Insertado |
| 3066 | 1 | 544269.489 | 4782293.835 | 115.180 | Insertado |
| 3067 | 1 | 544538.543 | 4782309.363 | 101.959 | 101 |
| 3068 | 1 | 544512.789 | 4782316.135 | 102.674 | 400 |
| 3069 | 1 | 544509.150 | 4782317.790 | 102.774 | 327 |
| 3070 | 1 | 544464.146 | 4782316.434 | 102.669 | 811 |
| 3071 | 1 | 544453.420 | 4782315.675 | 102.596 | 318 |
| 3072 | 1 | 544453.244 | 4782310.132 | 102.661 | 327 |
| 3073 | 1 | 544483.108 | 4782311.514 | 102.048 | 101 |
| 3074 | 1 | 544464.692 | 4782309.764 | 102.136 | 101 |
| 3075 | 1 | 544449.586 | 4782308.891 | 101.943 | 101 |
| 3076 | 1 | 544304.486 | 4782297.608 | 106.665 | 102 |
| 3077 | 1 | 544317.584 | 4782301.750 | 106.509 | 102 |
| 3078 | 1 | 544355.539 | 4782309.575 | 105.623 | 329 |
| 3079 | 1 | 544379.794 | 4782315.986 | 105.124 | 113 |
| 3080 | 1 | 544388.095 | 4782317.577 | 104.865 | 102 I |
| 3081 | 1 | 544406.690 | 4782321.660 | 104.235 | 328 |
| 3082 | 1 | 544407.014 | 4782321.344 | 104.530 | 329 |
| 3083 | 1 | 544412.733 | 4782323.522 | 104.042 | 328 |
| 3084 | 1 | 544439.504 | 4782329.631 | 103.483 | 328 |
| 3085 | 1 | 544438.306 | 4782324.334 | 105.661 | 612 I |
| 3086 | 1 | 544372.417 | 4782305.307 | 107.043 | 612 |
| 3087 | 1 | 544417.601 | 4782315.456 | 106.054 | 612 |
| 3088 | 1 | 544310.103 | 4782306.337 | 112.898 | 101 |
| 3089 | 1 | 544325.534 | 4782308.490 | 113.826 | 101 |
| 3090 | 1 | 544350.327 | 4782313.638 | 112.654 | 101 |
| 3091 | 1 | 544385.547 | 4782323.680 | 114.112 | 314,101 I |
| 3092 | 1 | 544393.158 | 4782321.216 | 110.656 | 101 |
| 3093 | 1 | 544445.929 | 4782335.453 | 111.242 | 101 |
| 3094 | 1 | 544414.920 | 4782324.531 | 110.057 | 314 |
| 3095 | 1 | 544439.574 | 4782330.121 | 110.059 | 314 |
| 3096 | 1 | 544351.554 | 4782291.531 | 105.904 | 300 |
| 3097 | 1 | 544335.726 | 4782287.951 | 105.762 | 300 |
| 3098 | 1 | 544444.167 | 4782329.933 | 103.661 | 317 I |
| 3099 | 1 | 544471.582 | 4782332.530 | 103.100 | 329 |
| 3100 | 1 | 544471.608 | 4782332.773 | 102.799 | 328 |
| 3101 | 1 | 544482.307 | 4782332.497 | 102.932 | 317 |
| 3102 | 1 | 544483.452 | 4782332.044 | 103.516 | 657 |
| 3103 | 1 | 544489.555 | 4782331.363 | 103.545 | 658 |
| 3104 | 1 | 544489.077 | 4782331.254 | 103.031 | 329 |
| 3105 | 1 | 544490.444 | 4782330.817 | 103.402 | 809 |
| 3106 | 1 | 544503.875 | 4782329.121 | 102.793 | 329 |
| 3107 | 1 | 544501.632 | 4782330.087 | 102.508 | 317 |
| 3108 | 1 | 544507.106 | 4782329.841 | 102.390 | 102 I |
| 3109 | 1 | 544515.983 | 4782327.149 | 102.303 | 329 |
| 3110 | 1 | 544530.591 | 4782324.020 | 102.474 | 102 |
| 3111 | 1 | 544532.320 | 4782323.133 | 103.049 | 102 |
| 3112 | 1 | 544529.404 | 4782323.496 | 102.338 | 329 |
| 3113 | 1 | 544529.467 | 4782323.840 | 101.742 | 328 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|--------|
| 3114 | 1 | 544529.383 | 4782322.628 | 102.715 | 101 I |
| 3115 | 1 | 544495.282 | 4782329.376 | 103.428 | 101 |
| 3116 | 1 | 544474.094 | 4782322.617 | 103.673 | 311 I |
| 3117 | 1 | 544481.842 | 4782321.806 | 104.488 | 101 |
| 3118 | 1 | 544474.132 | 4782322.218 | 103.682 | 102 I |
| 3119 | 1 | 544488.731 | 4782322.312 | 103.551 | 658 |
| 3120 | 1 | 544486.240 | 4782322.183 | 104.222 | 101 |
| 3121 | 1 | 544498.570 | 4782321.384 | 104.098 | 101 |
| 3122 | 1 | 544508.269 | 4782322.111 | 102.996 | 102 |
| 3123 | 1 | 544516.443 | 4782321.066 | 102.833 | 102 |
| 3124 | 1 | 544494.806 | 4782325.466 | 103.580 | 605 |
| 3125 | 1 | 544494.554 | 4782324.456 | 103.555 | 611 |
| 3126 | 1 | 544516.486 | 4782323.563 | 103.152 | 611 |
| 3127 | 1 | 544517.608 | 4782324.403 | 103.167 | 605 |
| 3128 | 1 | 544526.995 | 4782322.223 | 102.946 | 605 |
| 3129 | 1 | 544537.459 | 4782319.641 | 102.696 | 605 |
| 3130 | 1 | 544537.196 | 4782319.548 | 102.702 | 611 I |
| 3131 | 1 | 544518.260 | 4782323.124 | 103.106 | 611 |
| 3132 | 1 | 544538.886 | 4782318.222 | 102.639 | 611 I |
| 3133 | 1 | 544522.880 | 4782321.546 | 102.975 | 611 |
| 3134 | 1 | 544514.680 | 4782322.750 | 103.137 | 611 |
| 3135 | 1 | 544471.171 | 4782337.548 | 110.189 | 101 I |
| 3136 | 1 | 544488.802 | 4782338.913 | 113.326 | 101 |
| 3137 | 1 | 544532.636 | 4782322.674 | 103.751 | 101 |
| 3138 | 1 | 544526.292 | 4782319.801 | 102.713 | 311 I |
| 3139 | 1 | 544546.331 | 4782315.409 | 102.325 | 311 |
| 3140 | 1 | 544552.159 | 4782313.088 | 102.403 | 311 |
| 3141 | 1 | 544567.679 | 4782307.019 | 102.103 | 311 |
| 3142 | 1 | 544572.731 | 4782304.758 | 101.952 | 311 |
| 3143 | 1 | 544575.744 | 4782302.700 | 101.791 | 313 I |
| 3144 | 1 | 544573.083 | 4782304.420 | 101.929 | 313 |
| 3145 | 1 | 544561.658 | 4782309.376 | 102.228 | 313 |
| 3146 | 1 | 544551.865 | 4782312.890 | 102.340 | 313 |
| 3147 | 1 | 544551.090 | 4782313.550 | 102.341 | 311 I |
| 3148 | 1 | 544527.392 | 4782318.289 | 102.698 | 102 I |
| 3149 | 1 | 544534.239 | 4782315.618 | 103.608 | 101 |
| 3150 | 1 | 544534.393 | 4782316.751 | 102.363 | 102 |
| 3151 | 1 | 544541.022 | 4782315.224 | 102.343 | 102 |
| 3152 | 1 | 544541.962 | 4782314.863 | 102.382 | 805 |
| 3153 | 1 | 544542.156 | 4782315.607 | 102.378 | 805 |
| 3154 | 1 | 544545.456 | 4782314.691 | 102.336 | 804 |
| 3155 | 1 | 544550.274 | 4782313.260 | 102.306 | 804 |
| 3156 | 1 | 544550.807 | 4782311.580 | 102.751 | 300 I |
| 3157 | 1 | 544541.632 | 4782312.094 | 102.669 | 317 |
| 3158 | 1 | 544566.194 | 4782303.222 | 101.879 | 101 |
| 3159 | 1 | 544561.987 | 4782308.751 | 102.368 | 103 |
| 3160 | 1 | 544553.591 | 4782311.213 | 102.505 | 324 I |
| 3161 | 1 | 544563.617 | 4782307.999 | 101.990 | 323 |
| 3162 | 1 | 544568.319 | 4782306.062 | 101.831 | 323 |
| 3163 | 1 | 544541.125 | 4782317.602 | 102.607 | 611 I |
| 3164 | 1 | 544575.960 | 4782304.713 | 101.832 | 611 |
| 3165 | 1 | 544564.110 | 4782312.919 | 101.923 | 315 |
| 3166 | 1 | 544555.303 | 4782315.986 | 102.235 | 315 |
| 3167 | 1 | 544544.676 | 4782319.377 | 102.456 | 315 |
| 3168 | 1 | 544542.752 | 4782319.563 | 102.569 | 412 |
| 3169 | 1 | 544541.383 | 4782321.119 | 103.559 | 658 |
| 3170 | 1 | 544543.994 | 4782320.342 | 103.496 | 804 |
| 3171 | 1 | 544547.825 | 4782320.622 | 104.248 | 324 I |
| 3172 | 1 | 544547.625 | 4782320.063 | 103.831 | 324 |
| 3173 | 1 | 544546.535 | 4782321.211 | 103.996 | 309 I |
| 3174 | 1 | 544552.296 | 4782321.723 | 105.659 | 309 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 3175 | 1 | 544556.838 | 4782321.485 | 107.327 | 309 I |
| 3176 | 1 | 544548.005 | 4782319.609 | 103.963 | 309 |
| 3177 | 1 | 544539.224 | 4782326.168 | 106.419 | 324 I |
| 3178 | 1 | 544539.635 | 4782325.626 | 106.082 | 324 |
| 3179 | 1 | 544571.210 | 4782310.425 | 103.012 | 323 |
| 3180 | 1 | 544542.377 | 4782321.934 | 103.453 | 102 |
| 3181 | 1 | 544549.226 | 4782318.722 | 103.578 | 102 |
| 3182 | 1 | 544560.506 | 4782314.695 | 103.206 | 102 |
| 3183 | 1 | 544538.909 | 4782327.057 | 107.205 | 101 |
| 3184 | 1 | 544548.805 | 4782325.291 | 107.787 | 101 |
| 3185 | 1 | 544554.181 | 4782322.312 | 107.078 | 101 |
| 3186 | 1 | 544565.651 | 4782316.078 | 105.747 | 101 |
| 3187 | 1 | 544569.884 | 4782313.704 | 105.637 | 101 |
| 3188 | 1 | 544553.364 | 4782308.382 | 102.626 | Insertado |
| 3189 | 1 | 544311.560 | 4782287.232 | 106.722 | 101 |
| 3190 | 1 | 544313.834 | 4782286.945 | 106.627 | 101 |
| 3191 | 1 | 544313.102 | 4782288.115 | 107.235 | 006 |
| 3192 | 1 | 544312.941 | 4782288.159 | 107.258 | 326 I |
| 3193 | 1 | 544313.056 | 4782287.506 | 107.234 | 326 |
| 3194 | 1 | 544313.687 | 4782287.648 | 107.218 | 326 |
| 3195 | 1 | 544313.572 | 4782288.283 | 107.249 | 326 |
| 3196 | 1 | 544308.146 | 4782292.379 | 106.868 | 704 |
| 3197 | 1 | 544309.633 | 4782292.677 | 106.766 | 114 |
| 3198 | 1 | 544310.836 | 4782291.329 | 107.108 | 113 |
| 3199 | 1 | 544314.812 | 4782293.521 | 107.566 | 658 |
| 3200 | 1 | 544316.346 | 4782294.319 | 106.971 | 706 |
| 3201 | 1 | 544315.989 | 4782293.523 | 106.833 | 114 |
| 3202 | 1 | 544316.893 | 4782292.765 | 106.997 | 113 |
| 3203 | 1 | 544325.386 | 4782294.609 | 106.808 | 113 |
| 3204 | 1 | 544325.344 | 4782295.653 | 106.565 | 114 |
| 3205 | 1 | 544335.488 | 4782297.854 | 106.209 | 114 |
| 3206 | 1 | 544336.251 | 4782296.915 | 106.534 | 113 |
| 3207 | 1 | 544340.833 | 4782297.876 | 106.398 | 113 |
| 3208 | 1 | 544341.367 | 4782298.842 | 106.053 | 114 |
| 3209 | 1 | 544341.364 | 4782299.102 | 106.043 | 612 I |
| 3210 | 1 | 544340.796 | 4782301.726 | 106.195 | 612 |
| 3211 | 1 | 544340.410 | 4782301.065 | 106.150 | 704 |
| 3212 | 1 | 544340.719 | 4782301.598 | 106.150 | 114 I |
| 3213 | 1 | 544340.697 | 4782302.280 | 106.471 | 113 I |
| 3214 | 1 | 544339.694 | 4782299.010 | 106.122 | 771 |
| 3215 | 1 | 544338.958 | 4782298.904 | 106.197 | 706 |
| 3216 | 1 | 544333.414 | 4782299.894 | 106.277 | 114 |
| 3217 | 1 | 544333.088 | 4782300.603 | 106.593 | 113 |
| 3218 | 1 | 544339.847 | 4782303.027 | 106.680 | 611 I |
| 3219 | 1 | 544339.659 | 4782304.019 | 106.703 | 611 |
| 3220 | 1 | 544339.355 | 4782304.581 | 106.462 | 101 I |
| 3221 | 1 | 544339.199 | 4782305.238 | 106.037 | 102 I |
| 3222 | 1 | 544339.000 | 4782305.657 | 105.998 | 313 I |
| 3223 | 1 | 544331.847 | 4782303.571 | 106.198 | 102 |
| 3224 | 1 | 544331.516 | 4782302.702 | 106.749 | 101 |
| 3225 | 1 | 544331.449 | 4782302.075 | 106.876 | 611 |
| 3226 | 1 | 544331.637 | 4782301.099 | 106.851 | 611 |
| 3227 | 1 | 544331.763 | 4782300.389 | 106.642 | 113 |
| 3228 | 1 | 544331.253 | 4782299.282 | 106.341 | 114 |
| 3229 | 1 | 544322.361 | 4782297.065 | 106.600 | 114 |
| 3230 | 1 | 544321.836 | 4782297.871 | 106.867 | 113 |
| 3231 | 1 | 544321.673 | 4782298.574 | 107.054 | 611 |
| 3232 | 1 | 544321.541 | 4782299.595 | 107.072 | 611 |
| 3233 | 1 | 544321.086 | 4782300.069 | 106.903 | 101 |
| 3234 | 1 | 544320.269 | 4782300.658 | 106.452 | 102 |
| 3235 | 1 | 544308.971 | 4782297.742 | 106.538 | 102 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|--------|
| 3236 | 1 | 544309.108 | 4782296.916 | 107.148 | 101 |
| 3237 | 1 | 544309.446 | 4782296.330 | 107.319 | 611 |
| 3238 | 1 | 544309.735 | 4782295.341 | 107.336 | 611 |
| 3239 | 1 | 544309.954 | 4782294.644 | 107.136 | 113 |
| 3240 | 1 | 544309.788 | 4782293.680 | 106.949 | 114 |
| 3241 | 1 | 544307.155 | 4782297.152 | 106.917 | 705 |
| 3242 | 1 | 544320.970 | 4782289.109 | 106.570 | 113 I |
| 3243 | 1 | 544320.832 | 4782289.863 | 106.703 | 103 |
| 3244 | 1 | 544320.774 | 4782290.432 | 106.932 | 816 |
| 3245 | 1 | 544320.733 | 4782290.679 | 106.758 | 102 I |
| 3246 | 1 | 544320.603 | 4782291.190 | 106.840 | 101 I |
| 3247 | 1 | 544319.738 | 4782291.535 | 107.100 | 611 I |
| 3248 | 1 | 544319.534 | 4782292.513 | 107.103 | 611 |
| 3249 | 1 | 544328.327 | 4782294.483 | 106.908 | 611 |
| 3250 | 1 | 544328.485 | 4782293.497 | 106.896 | 611 |
| 3251 | 1 | 544328.935 | 4782293.015 | 106.702 | 101 |
| 3252 | 1 | 544329.286 | 4782292.660 | 106.513 | 102 |
| 3253 | 1 | 544329.686 | 4782292.445 | 106.726 | 816 |
| 3254 | 1 | 544330.151 | 4782291.987 | 106.529 | 103 |
| 3255 | 1 | 544330.354 | 4782291.483 | 106.456 | 113 |
| 3256 | 1 | 544341.554 | 4782293.692 | 106.214 | 113 |
| 3257 | 1 | 544341.618 | 4782294.511 | 106.270 | 103 |
| 3258 | 1 | 544341.563 | 4782295.112 | 106.498 | 816 |
| 3259 | 1 | 544341.695 | 4782295.456 | 106.289 | 102 |
| 3260 | 1 | 544341.635 | 4782295.940 | 106.433 | 101 |
| 3261 | 1 | 544341.392 | 4782296.392 | 106.611 | 611 |
| 3262 | 1 | 544341.222 | 4782297.358 | 106.632 | 611 |
| 3263 | 1 | 544352.262 | 4782299.855 | 106.382 | 611 |
| 3264 | 1 | 544352.463 | 4782298.881 | 106.392 | 611 |
| 3265 | 1 | 544352.188 | 4782300.697 | 106.176 | 103 |
| 3266 | 1 | 544352.910 | 4782298.418 | 106.174 | 101 |
| 3267 | 1 | 544353.095 | 4782297.929 | 105.997 | 102 |
| 3268 | 1 | 544353.398 | 4782297.787 | 106.230 | 816 |
| 3269 | 1 | 544353.796 | 4782296.526 | 105.900 | 113 |
| 3270 | 1 | 544360.955 | 4782298.092 | 105.601 | 113 |
| 3271 | 1 | 544360.644 | 4782299.393 | 106.062 | 816 |
| 3272 | 1 | 544361.547 | 4782298.434 | 106.193 | 326 I |
| 3273 | 1 | 544361.389 | 4782299.100 | 106.200 | 326 |
| 3274 | 1 | 544360.746 | 4782298.917 | 106.210 | 326 |
| 3275 | 1 | 544360.914 | 4782298.290 | 106.194 | 326 |
| 3276 | 1 | 544362.207 | 4782300.026 | 105.826 | 102 |
| 3277 | 1 | 544362.224 | 4782300.348 | 105.974 | 101 |
| 3278 | 1 | 544362.229 | 4782301.077 | 106.171 | 611 |
| 3279 | 1 | 544362.230 | 4782302.083 | 106.190 | 611 |
| 3280 | 1 | 544362.184 | 4782302.891 | 106.023 | 103 |
| 3281 | 1 | 544365.005 | 4782299.687 | 105.738 | 653 |
| 3282 | 1 | 544368.035 | 4782299.799 | 105.413 | 101 |
| 3283 | 1 | 544367.937 | 4782300.455 | 105.583 | 103 |
| 3284 | 1 | 544374.210 | 4782301.631 | 105.491 | 113 |
| 3285 | 1 | 544374.107 | 4782302.399 | 105.774 | 816 |
| 3286 | 1 | 544374.428 | 4782302.812 | 105.582 | 102 |
| 3287 | 1 | 544374.196 | 4782303.224 | 105.768 | 101 |
| 3288 | 1 | 544374.153 | 4782303.728 | 105.911 | 611 |
| 3289 | 1 | 544373.967 | 4782304.720 | 105.904 | 611 |
| 3290 | 1 | 544373.813 | 4782305.524 | 105.738 | 103 |
| 3291 | 1 | 544385.850 | 4782308.246 | 105.444 | 103 |
| 3292 | 1 | 544386.266 | 4782307.467 | 105.626 | 611 |
| 3293 | 1 | 544386.431 | 4782306.479 | 105.649 | 611 |
| 3294 | 1 | 544386.813 | 4782305.970 | 105.428 | 101 |
| 3295 | 1 | 544387.115 | 4782305.639 | 105.253 | 102 |
| 3296 | 1 | 544387.365 | 4782305.367 | 105.467 | 816 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 3297 | 1 | 544387.772 | 4782304.909 | 105.268 | 103 |
| 3298 | 1 | 544388.926 | 4782303.245 | 104.989 | 101 |
| 3299 | 1 | 544397.339 | 4782304.946 | 104.890 | 101 |
| 3300 | 1 | 544397.600 | 4782306.820 | 105.060 | 103 |
| 3301 | 1 | 544398.288 | 4782307.820 | 105.224 | 816 |
| 3302 | 1 | 544398.193 | 4782308.094 | 105.037 | 102 |
| 3303 | 1 | 544398.025 | 4782308.445 | 105.228 | 101 |
| 3304 | 1 | 544398.069 | 4782309.100 | 105.416 | 611 |
| 3305 | 1 | 544397.925 | 4782310.085 | 105.387 | 611 |
| 3306 | 1 | 544397.961 | 4782310.954 | 105.265 | 103 |
| 3307 | 1 | 544404.751 | 4782312.504 | 105.145 | 103 |
| 3308 | 1 | 544405.451 | 4782311.760 | 105.239 | 611 |
| 3309 | 1 | 544405.682 | 4782310.776 | 105.244 | 611 |
| 3310 | 1 | 544405.775 | 4782310.116 | 105.121 | 101 |
| 3311 | 1 | 544406.115 | 4782309.612 | 104.957 | 102 |
| 3312 | 1 | 544406.227 | 4782309.620 | 105.105 | 816 |
| 3313 | 1 | 544406.407 | 4782309.068 | 104.929 | 103 |
| 3314 | 1 | 544406.286 | 4782307.174 | 104.957 | 113 |
| 3315 | 1 | 544411.714 | 4782308.571 | 104.939 | 113 |
| 3316 | 1 | 544411.889 | 4782309.542 | 105.064 | 501 |
| 3317 | 1 | 544414.009 | 4782308.734 | 104.821 | 113 |
| 3318 | 1 | 544419.519 | 4782309.477 | 104.886 | 113 |
| 3319 | 1 | 544419.859 | 4782310.984 | 105.026 | 113 |
| 3320 | 1 | 544422.837 | 4782307.795 | 103.249 | 314 I |
| 3321 | 1 | 544425.423 | 4782307.677 | 103.365 | 314,300 I |
| 3322 | 1 | 544424.961 | 4782312.666 | 104.513 | 300 |
| 3323 | 1 | 544417.370 | 4782312.373 | 104.857 | 816 |
| 3324 | 1 | 544416.753 | 4782312.379 | 104.809 | 101,102 |
| 3325 | 1 | 544416.842 | 4782313.320 | 104.997 | 611 |
| 3326 | 1 | 544422.319 | 4782315.578 | 104.848 | 611 |
| 3327 | 1 | 544422.578 | 4782314.593 | 104.855 | 611 |
| 3328 | 1 | 544422.953 | 4782313.715 | 104.718 | 816 |
| 3329 | 1 | 544424.114 | 4782312.430 | 104.490 | 006 |
| 3330 | 1 | 544435.698 | 4782313.680 | 104.530 | 300 |
| 3331 | 1 | 544435.208 | 4782316.100 | 104.362 | 300 |
| 3332 | 1 | 544435.091 | 4782316.517 | 104.517 | 816 |
| 3333 | 1 | 544434.943 | 4782317.337 | 104.662 | 611 |
| 3334 | 1 | 544434.830 | 4782318.320 | 104.637 | 611 |
| 3335 | 1 | 544441.178 | 4782319.662 | 104.582 | 611 |
| 3336 | 1 | 544441.359 | 4782318.694 | 104.519 | 611 |
| 3337 | 1 | 544439.915 | 4782317.602 | 104.604 | 816 |
| 3338 | 1 | 544440.957 | 4782317.685 | 104.548 | 816 |
| 3339 | 1 | 544442.563 | 4782317.615 | 104.512 | 816 |
| 3340 | 1 | 544438.963 | 4782316.990 | 104.580 | 300 I |
| 3341 | 1 | 544439.722 | 4782317.118 | 104.572 | 300 |
| 3342 | 1 | 544439.885 | 4782316.575 | 104.581 | 300 |
| 3343 | 1 | 544443.203 | 4782317.279 | 104.490 | 300 |
| 3344 | 1 | 544448.650 | 4782318.771 | 104.212 | 655 |
| 3345 | 1 | 544449.531 | 4782318.481 | 104.397 | 816 |
| 3346 | 1 | 544450.352 | 4782318.446 | 104.297 | 816 |
| 3347 | 1 | 544450.670 | 4782317.949 | 104.322 | 300 |
| 3348 | 1 | 544451.662 | 4782318.678 | 104.267 | 816 |
| 3349 | 1 | 544451.685 | 4782318.720 | 104.347 | 700 I |
| 3350 | 1 | 544451.483 | 4782319.841 | 104.341 | 700 |
| 3351 | 1 | 544450.179 | 4782319.623 | 104.325 | 700 |
| 3352 | 1 | 544450.076 | 4782318.801 | 104.138 | 000 |
| 3353 | 1 | 544449.049 | 4782320.201 | 104.426 | 611 |
| 3354 | 1 | 544448.856 | 4782321.162 | 104.433 | 611 |
| 3355 | 1 | 544448.566 | 4782326.313 | 104.173 | 113 I |
| 3356 | 1 | 544448.646 | 4782325.547 | 103.848 | 114 I |
| 3357 | 1 | 544448.473 | 4782323.697 | 104.012 | 704 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|--------|
| 3358 | 1 | 544444.582 | 4782324.829 | 104.007 | 114 |
| 3359 | 1 | 544443.937 | 4782325.065 | 104.190 | 113 |
| 3360 | 1 | 544444.825 | 4782321.777 | 104.273 | 113 |
| 3361 | 1 | 544443.939 | 4782321.207 | 104.517 | 006 |
| 3362 | 1 | 544444.543 | 4782321.413 | 104.319 | 113 |
| 3363 | 1 | 544446.063 | 4782322.588 | 103.869 | 114 |
| 3364 | 1 | 544452.181 | 4782323.589 | 103.886 | 114 |
| 3365 | 1 | 544452.159 | 4782324.938 | 104.044 | 706 |
| 3366 | 1 | 544453.471 | 4782325.109 | 103.996 | 658 |
| 3367 | 1 | 544455.371 | 4782322.360 | 104.262 | 611 |
| 3368 | 1 | 544455.545 | 4782321.308 | 104.265 | 611 |
| 3369 | 1 | 544454.091 | 4782319.859 | 104.075 | 816 |
| 3370 | 1 | 544454.084 | 4782318.506 | 104.905 | 101 I |
| 3371 | 1 | 544461.929 | 4782321.184 | 103.906 | 816 |
| 3372 | 1 | 544463.868 | 4782320.953 | 103.847 | 655 |
| 3373 | 1 | 544463.826 | 4782322.615 | 104.107 | 611 |
| 3374 | 1 | 544463.750 | 4782323.636 | 104.137 | 611 |
| 3375 | 1 | 544463.665 | 4782324.414 | 104.063 | 113 |
| 3376 | 1 | 544463.584 | 4782325.103 | 103.742 | 114 |
| 3377 | 1 | 544469.146 | 4782326.165 | 103.610 | 500 |
| 3378 | 1 | 544470.776 | 4782326.993 | 103.652 | 658 |
| 3379 | 1 | 544471.431 | 4782325.872 | 103.690 | 114 |
| 3380 | 1 | 544471.565 | 4782325.290 | 103.884 | 113 |
| 3381 | 1 | 544471.924 | 4782324.601 | 104.029 | 611 |
| 3382 | 1 | 544472.060 | 4782323.598 | 103.997 | 611 |
| 3383 | 1 | 544472.066 | 4782322.333 | 103.733 | 816 |
| 3384 | 1 | 544470.072 | 4782320.590 | 104.860 | 101 |
| 3385 | 1 | 544472.327 | 4782327.310 | 103.793 | 706 |
| 3386 | 1 | 544473.852 | 4782327.996 | 103.569 | 114 I |
| 3387 | 1 | 544474.529 | 4782328.520 | 103.757 | 113 I |
| 3388 | 1 | 544474.835 | 4782329.374 | 104.008 | 611 |
| 3389 | 1 | 544474.908 | 4782330.379 | 104.073 | 611 |
| 3390 | 1 | 544475.346 | 4782331.099 | 103.812 | 101 I |
| 3391 | 1 | 544475.347 | 4782331.748 | 103.468 | 655 |
| 3392 | 1 | 544475.618 | 4782332.249 | 103.133 | 102 I |
| 3393 | 1 | 544468.785 | 4782332.171 | 103.212 | 500 |
| 3394 | 1 | 544468.547 | 4782332.307 | 103.379 | 102 |
| 3395 | 1 | 544468.623 | 4782330.914 | 103.973 | 101 |
| 3396 | 1 | 544467.841 | 4782329.253 | 104.157 | 611 |
| 3397 | 1 | 544467.805 | 4782330.277 | 104.184 | 611 |
| 3398 | 1 | 544467.532 | 4782328.624 | 103.985 | 113 |
| 3399 | 1 | 544467.676 | 4782328.124 | 103.659 | 114 |
| 3400 | 1 | 544462.846 | 4782331.392 | 103.767 | 655 |
| 3401 | 1 | 544460.628 | 4782331.766 | 103.531 | 102 |
| 3402 | 1 | 544460.793 | 4782330.322 | 104.094 | 101 |
| 3403 | 1 | 544460.553 | 4782329.802 | 104.271 | 611 |
| 3404 | 1 | 544460.581 | 4782328.784 | 104.218 | 611 |
| 3405 | 1 | 544459.653 | 4782328.031 | 104.003 | 113 I |
| 3406 | 1 | 544459.174 | 4782327.478 | 103.693 | 114 |
| 3407 | 1 | 544449.947 | 4782327.386 | 104.413 | 611 |
| 3408 | 1 | 544449.788 | 4782328.390 | 104.454 | 611 |
| 3409 | 1 | 544449.731 | 4782328.896 | 104.211 | 101 |
| 3410 | 1 | 544449.292 | 4782329.545 | 103.879 | 102 |
| 3411 | 1 | 544447.168 | 4782329.432 | 104.232 | 704 |
| 3412 | 1 | 544446.402 | 4782329.471 | 103.720 | 102 |
| 3413 | 1 | 544446.162 | 4782328.382 | 104.283 | 101 |
| 3414 | 1 | 544446.250 | 4782327.765 | 104.460 | 611 |
| 3415 | 1 | 544446.429 | 4782326.761 | 104.444 | 611 |
| 3416 | 1 | 544437.630 | 4782324.974 | 104.573 | 611 |
| 3417 | 1 | 544437.405 | 4782325.983 | 104.585 | 611 |
| 3418 | 1 | 544437.211 | 4782326.605 | 104.404 | 101 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 3419 | 1 | 544436.507 | 4782327.629 | 103.782 | 102 |
| 3420 | 1 | 544424.330 | 4782324.742 | 104.122 | 102 |
| 3421 | 1 | 544424.304 | 4782323.694 | 104.640 | 101 |
| 3422 | 1 | 544424.499 | 4782323.086 | 104.826 | 611 |
| 3423 | 1 | 544424.656 | 4782322.093 | 104.844 | 611 |
| 3424 | 1 | 544424.741 | 4782321.296 | 104.699 | 300 I |
| 3425 | 1 | 544419.323 | 4782320.050 | 104.811 | 300 |
| 3426 | 1 | 544414.744 | 4782319.863 | 105.093 | 611 |
| 3427 | 1 | 544414.559 | 4782320.845 | 105.086 | 611 |
| 3428 | 1 | 544414.220 | 4782321.416 | 104.961 | 101 |
| 3429 | 1 | 544408.640 | 4782320.931 | 104.535 | 101 |
| 3430 | 1 | 544405.020 | 4782320.133 | 104.655 | 102 |
| 3431 | 1 | 544404.869 | 4782319.133 | 105.126 | 101 |
| 3432 | 1 | 544404.585 | 4782318.601 | 105.318 | 611 |
| 3433 | 1 | 544404.776 | 4782317.627 | 105.330 | 611 |
| 3434 | 1 | 544404.718 | 4782316.826 | 105.143 | 300 |
| 3435 | 1 | 544394.884 | 4782314.578 | 105.182 | 300 |
| 3436 | 1 | 544394.253 | 4782315.284 | 105.541 | 300 |
| 3437 | 1 | 544394.067 | 4782316.264 | 105.536 | 300 |
| 3438 | 1 | 544393.750 | 4782316.737 | 105.324 | 101 |
| 3439 | 1 | 544393.087 | 4782317.387 | 104.824 | 102 |
| 3440 | 1 | 544381.815 | 4782314.758 | 105.203 | 102 |
| 3441 | 1 | 544381.899 | 4782314.110 | 105.598 | 101 |
| 3442 | 1 | 544381.770 | 4782313.492 | 105.783 | 611 |
| 3443 | 1 | 544381.954 | 4782312.502 | 105.813 | 611 |
| 3444 | 1 | 544381.845 | 4782311.607 | 105.615 | 300 |
| 3445 | 1 | 544371.510 | 4782309.324 | 105.726 | 300 |
| 3446 | 1 | 544371.456 | 4782310.141 | 106.015 | 611 |
| 3447 | 1 | 544371.277 | 4782311.144 | 106.033 | 611 |
| 3448 | 1 | 544370.914 | 4782311.625 | 105.796 | 101 |
| 3449 | 1 | 544370.676 | 4782312.349 | 105.329 | 102 |
| 3450 | 1 | 544359.560 | 4782310.100 | 105.838 | 102 |
| 3451 | 1 | 544359.552 | 4782309.270 | 106.358 | 101 |
| 3452 | 1 | 544359.537 | 4782308.632 | 106.584 | 611 |
| 3453 | 1 | 544359.767 | 4782307.673 | 106.589 | 611 |
| 3454 | 1 | 544359.854 | 4782306.792 | 106.293 | 300 |
| 3455 | 1 | 544349.423 | 4782304.374 | 106.699 | 300 |
| 3456 | 1 | 544350.268 | 4782307.854 | 106.142 | 102 |
| 3457 | 1 | 544350.410 | 4782307.129 | 106.649 | 101 |
| 3458 | 1 | 544350.222 | 4782306.518 | 106.815 | 611 |
| 3459 | 1 | 544350.465 | 4782305.576 | 106.827 | 611 |
| 3460 | 1 | 544350.566 | 4782304.653 | 106.595 | 300 |
| 3461 | 1 | 544341.838 | 4782299.086 | 107.931 | 006 |
| 3462 | 1 | 544439.210 | 4782320.310 | 105.670 | Insertado |
| 3463 | 1 | 544551.707 | 4782317.344 | 102.938 | Insertado |
| 3464 | 1 | 544372.889 | 4782296.284 | 105.910 | Insertado |
| 3465 | 1 | 544318.190 | 4782283.985 | 105.770 | Insertado |
| 3466 | 1 | 544304.479 | 4782296.947 | 106.627 | 329 |
| 3467 | 1 | 544310.499 | 4782298.462 | 106.545 | 329 |
| 3468 | 1 | 544331.128 | 4782304.565 | 106.153 | 102 |
| 3469 | 1 | 544331.528 | 4782304.299 | 105.835 | 328 |
| 3470 | 1 | 544355.612 | 4782309.959 | 105.308 | 328 |
| 3471 | 1 | 544355.586 | 4782310.114 | 105.594 | 102 |
| 3472 | 1 | 544367.352 | 4782313.404 | 105.470 | 102,113 I |
| 3473 | 1 | 544375.594 | 4782314.983 | 105.235 | 113 |
| 3474 | 1 | 544375.790 | 4782314.573 | 104.902 | 328 |
| 3475 | 1 | 544376.049 | 4782314.222 | 105.212 | 329 |
| 3476 | 1 | 544388.497 | 4782317.371 | 104.578 | 328 |
| 3477 | 1 | 544388.670 | 4782317.016 | 104.900 | 329 |
| 3478 | 1 | 544400.642 | 4782319.690 | 104.640 | 329 |
| 3479 | 1 | 544400.394 | 4782320.028 | 104.345 | 328 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 3480 | 1 | 544413.265 | 4782323.358 | 104.358 | 329 |
| 3481 | 1 | 544417.993 | 4782324.565 | 104.240 | 329 |
| 3482 | 1 | 544431.665 | 4782327.634 | 103.929 | 329 |
| 3483 | 1 | 544439.535 | 4782329.402 | 103.764 | 329 |
| 3484 | 1 | 544415.834 | 4782319.228 | 106.134 | 612 |
| 3485 | 1 | 544368.009 | 4782308.478 | 107.147 | 612 |
| 3486 | 1 | 544340.747 | 4782302.254 | 107.732 | 612 |
| 3487 | 1 | 544341.662 | 4782298.383 | 107.707 | 612 |
| 3488 | 1 | 544305.012 | 4782303.193 | 112.730 | 101 |
| 3489 | 1 | 544335.683 | 4782309.978 | 112.836 | 101 |
| 3490 | 1 | 544361.666 | 4782316.531 | 113.666 | 101,314 I |
| 3491 | 1 | 544373.069 | 4782318.678 | 114.373 | 314 |
| 3493 | 1 | 544412.609 | 4782324.002 | 108.555 | 314 I |
| 3494 | 1 | 544441.736 | 4782330.586 | 107.185 | 314 |
| 3495 | 1 | 544365.259 | 4782294.584 | 105.918 | 300 I |
| 3496 | 1 | 544444.138 | 4782329.342 | 103.678 | 329 I |
| 3497 | 1 | 544444.214 | 4782329.751 | 103.372 | 328 I |
| 3498 | 1 | 544459.872 | 4782332.291 | 103.095 | 328 |
| 3499 | 1 | 544460.004 | 4782331.950 | 103.393 | 329 |
| 3500 | 1 | 544473.535 | 4782332.776 | 103.051 | 317 |
| 3501 | 1 | 544482.370 | 4782332.410 | 102.650 | 328 |
| 3502 | 1 | 544482.378 | 4782331.999 | 102.939 | 329 |
| 3503 | 1 | 544489.113 | 4782331.795 | 102.752 | 317 |
| 3504 | 1 | 544489.117 | 4782331.666 | 102.471 | 328 |
| 3505 | 1 | 544503.852 | 4782329.610 | 102.127 | 328 |
| 3506 | 1 | 544515.717 | 4782328.298 | 102.326 | 102 |
| 3507 | 1 | 544515.894 | 4782327.583 | 101.899 | 328 |
| 3508 | 1 | 544524.010 | 4782324.751 | 102.301 | 329 |
| 3509 | 1 | 544524.290 | 4782325.023 | 101.842 | 328 |
| 3510 | 1 | 544524.014 | 4782325.328 | 102.264 | 102 |
| 3511 | 1 | 544532.251 | 4782322.772 | 102.506 | 102 |
| 3512 | 1 | 544529.898 | 4782323.592 | 102.391 | 734 |
| 3513 | 1 | 544514.024 | 4782325.820 | 103.125 | 101 |
| 3514 | 1 | 544478.479 | 4782331.009 | 103.737 | 101 |
| 3515 | 1 | 544475.350 | 4782322.709 | 103.674 | 651 |
| 3516 | 1 | 544474.423 | 4782321.041 | 104.963 | 101 I |
| 3517 | 1 | 544481.735 | 4782323.007 | 103.520 | 311 |
| 3518 | 1 | 544481.749 | 4782322.607 | 103.509 | 102 |
| 3519 | 1 | 544490.713 | 4782322.746 | 103.344 | 102 |
| 3520 | 1 | 544490.712 | 4782323.147 | 103.344 | 311 |
| 3521 | 1 | 544498.168 | 4782323.063 | 103.205 | 311 |
| 3522 | 1 | 544498.155 | 4782322.663 | 103.204 | 102 |
| 3523 | 1 | 544499.312 | 4782322.644 | 103.214 | 651 |
| 3524 | 1 | 544502.950 | 4782322.036 | 103.078 | 016 |
| 3525 | 1 | 544508.305 | 4782322.510 | 103.010 | 311 |
| 3526 | 1 | 544506.028 | 4782321.385 | 103.150 | 658 |
| 3527 | 1 | 544516.502 | 4782321.461 | 102.832 | 311 |
| 3528 | 1 | 544516.717 | 4782319.926 | 104.253 | 101 |
| 3529 | 1 | 544524.903 | 4782320.051 | 102.665 | 311 |
| 3530 | 1 | 544524.837 | 4782319.656 | 102.715 | 102 |
| 3531 | 1 | 544523.056 | 4782318.870 | 103.910 | 101 |
| 3532 | 1 | 544513.301 | 4782323.943 | 103.217 | 605 I |
| 3533 | 1 | 544496.267 | 4782328.543 | 103.620 | 605 |
| 3534 | 1 | 544496.152 | 4782327.511 | 103.587 | 611 |
| 3535 | 1 | 544510.998 | 4782324.778 | 103.259 | 611 |
| 3536 | 1 | 544528.673 | 4782321.551 | 102.887 | 611 |
| 3537 | 1 | 544518.214 | 4782323.342 | 103.119 | 611 |
| 3538 | 1 | 544514.397 | 4782324.153 | 103.191 | 611 |
| 3539 | 1 | 544514.384 | 4782323.773 | 103.191 | 611 I |
| 3540 | 1 | 544527.242 | 4782321.060 | 102.917 | 611 |
| 3541 | 1 | 544533.958 | 4782319.431 | 102.739 | 611 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 3542 | 1 | 544537.908 | 4782318.448 | 102.661 | 611 |
| 3543 | 1 | 544532.811 | 4782319.585 | 102.756 | 611 |
| 3544 | 1 | 544509.466 | 4782323.397 | 103.254 | 611 |
| 3545 | 1 | 544505.260 | 4782336.097 | 112.233 | 101 |
| 3546 | 1 | 544513.933 | 4782332.152 | 109.583 | 101 |
| 3547 | 1 | 544522.670 | 4782327.479 | 105.900 | 101 |
| 3548 | 1 | 544531.447 | 4782324.573 | 104.735 | 101 |
| 3549 | 1 | 544532.402 | 4782323.298 | 103.811 | 101 |
| 3550 | 1 | 544526.098 | 4782318.953 | 102.759 | 658 |
| 3551 | 1 | 544530.320 | 4782319.099 | 102.647 | 311 |
| 3552 | 1 | 544537.817 | 4782317.368 | 102.495 | 311 |
| 3553 | 1 | 544541.589 | 4782316.076 | 102.418 | 311 |
| 3554 | 1 | 544542.631 | 4782315.797 | 102.357 | 311 |
| 3555 | 1 | 544551.172 | 4782313.772 | 102.331 | 311 |
| 3556 | 1 | 544559.623 | 4782310.308 | 102.262 | 311 |
| 3557 | 1 | 544579.621 | 4782300.971 | 101.668 | 311 |
| 3558 | 1 | 544546.146 | 4782315.242 | 102.332 | 311 |
| 3559 | 1 | 544541.473 | 4782315.693 | 102.420 | 311 |
| 3560 | 1 | 544537.707 | 4782316.983 | 102.468 | 311 |
| 3561 | 1 | 544530.241 | 4782318.707 | 102.678 | 311 |
| 3562 | 1 | 544528.808 | 4782318.426 | 102.294 | 804 |
| 3563 | 1 | 544527.525 | 4782317.293 | 103.717 | 101 I |
| 3564 | 1 | 544540.799 | 4782314.512 | 102.703 | 101 |
| 3565 | 1 | 544544.505 | 4782314.007 | 102.334 | 102,101 |
| 3566 | 1 | 544544.858 | 4782314.121 | 102.396 | 809 |
| 3567 | 1 | 544545.618 | 4782313.377 | 102.316 | 807 |
| 3568 | 1 | 544548.720 | 4782312.088 | 102.742 | 300 |
| 3569 | 1 | 544548.198 | 4782310.065 | 102.700 | 300,317 I |
| 3570 | 1 | 544560.081 | 4782306.306 | 102.044 | 101 I |
| 3571 | 1 | 544570.596 | 4782300.916 | 101.763 | 101 |
| 3572 | 1 | 544572.269 | 4782304.381 | 102.078 | 103 |
| 3573 | 1 | 544551.789 | 4782312.459 | 102.521 | 103 |
| 3574 | 1 | 544552.559 | 4782312.424 | 103.242 | 103 |
| 3575 | 1 | 544567.528 | 4782306.478 | 102.882 | 103 |
| 3576 | 1 | 544554.022 | 4782311.621 | 102.281 | 324 |
| 3577 | 1 | 544558.831 | 4782309.888 | 102.162 | 323 |
| 3578 | 1 | 544573.001 | 4782303.909 | 101.621 | 323 |
| 3579 | 1 | 544541.287 | 4782318.649 | 102.633 | 605 I |
| 3580 | 1 | 544552.965 | 4782315.148 | 102.388 | 605 |
| 3581 | 1 | 544552.852 | 4782314.073 | 102.357 | 611 |
| 3582 | 1 | 544553.729 | 4782312.615 | 102.267 | 651 |
| 3583 | 1 | 544558.913 | 4782310.674 | 101.980 | 500 |
| 3584 | 1 | 544565.520 | 4782309.324 | 102.065 | 611 |
| 3585 | 1 | 544565.981 | 4782310.275 | 102.087 | 605 |
| 3586 | 1 | 544576.396 | 4782305.603 | 101.855 | 605 |
| 3587 | 1 | 544573.277 | 4782308.937 | 102.045 | 315 I |
| 3588 | 1 | 544540.217 | 4782320.058 | 102.715 | 661 |
| 3589 | 1 | 544531.716 | 4782322.703 | 102.682 | 315 |
| 3590 | 1 | 544556.495 | 4782322.406 | 107.455 | 309 |
| 3591 | 1 | 544551.944 | 4782320.413 | 105.428 | 309 |
| 3592 | 1 | 544543.752 | 4782322.818 | 104.593 | 324 I |
| 3593 | 1 | 544543.489 | 4782323.382 | 105.382 | 324 |
| 3594 | 1 | 544535.591 | 4782328.585 | 107.645 | 324 I |
| 3595 | 1 | 544535.007 | 4782328.707 | 107.854 | 324 |
| 3596 | 1 | 544561.802 | 4782314.232 | 103.171 | 323 |
| 3597 | 1 | 544566.560 | 4782312.410 | 103.047 | 323 |
| 3598 | 1 | 544535.581 | 4782322.897 | 103.866 | 102 I |
| 3599 | 1 | 544565.911 | 4782312.697 | 103.113 | 102 |
| 3600 | 1 | 544570.833 | 4782310.498 | 103.028 | 102 |
| 3601 | 1 | 544525.835 | 4782330.046 | 109.529 | 101 I |
| 3602 | 1 | 544533.693 | 4782329.349 | 108.290 | 101 |

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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-------------|
| 3603 | 1 | 544471.607 | 4782332.953 | 103.070 | Insertado |
| 3604 | 1 | 544459.854 | 4782332.471 | 103.420 | Insertado |
| 3605 | 1 | 544556.773 | 4782316.275 | 103.333 | Insertado |
| 3606 | 1 | 544463.912 | 4782336.421 | 110.314 | 101 |
| 3607 | 1 | 544492.157 | 4782312.448 | 102.631 | 100.331 I |
| 3608 | 1 | 544493.235 | 4782295.334 | 103.720 | 100.331 |
| 3609 | 1 | 544496.324 | 4782294.852 | 103.778 | 100 I,331 I |
| 3610 | 1 | 544495.812 | 4782302.616 | 102.631 | 100.331 |
| 3611 | 1 | 544495.906 | 4782312.022 | 102.143 | 109 I,101 I |
| 3612 | 1 | 544495.783 | 4782312.650 | 102.537 | 109,327 I |
| 3613 | 1 | 544496.494 | 4782314.460 | 102.620 | 103 |
| 3614 | 1 | 544502.511 | 4782313.714 | 102.615 | 103 |
| 3615 | 1 | 544502.877 | 4782312.360 | 102.490 | 109,327 |
| 3616 | 1 | 544513.325 | 4782311.847 | 102.537 | 109,327 |
| 3617 | 1 | 544522.477 | 4782311.349 | 102.521 | 109,327 |
| 3618 | 1 | 544522.928 | 4782311.377 | 102.359 | 109 |
| 3619 | 1 | 544522.716 | 4782315.714 | 102.681 | 327 |
| 3620 | 1 | 544502.422 | 4782311.373 | 102.137 | 101 |
| 3621 | 1 | 544523.209 | 4782310.973 | 101.795 | 101 |
| 3622 | 1 | 544525.034 | 4782315.270 | 102.329 | 318 |
| 3623 | 1 | 544522.800 | 4782315.748 | 102.762 | 318 |
| 3624 | 1 | 544517.098 | 4782315.900 | 102.635 | 811 |
| 3625 | 1 | 544514.762 | 4782315.866 | 102.640 | 400 I |
| 3626 | 1 | 544509.128 | 4782317.825 | 102.835 | 318 |
| 3627 | 1 | 544507.980 | 4782316.898 | 102.806 | 400 |
| 3628 | 1 | 544505.402 | 4782318.172 | 102.667 | 327 |
| 3629 | 1 | 544505.478 | 4782318.223 | 102.741 | 318 |
| 3630 | 1 | 544504.638 | 4782317.297 | 102.705 | 706 |
| 3631 | 1 | 544504.126 | 4782317.579 | 102.684 | 402 |
| 3632 | 1 | 544495.477 | 4782318.728 | 102.701 | 327 |
| 3633 | 1 | 544495.513 | 4782318.790 | 102.795 | 318 |
| 3634 | 1 | 544494.435 | 4782317.744 | 102.700 | 400 |
| 3635 | 1 | 544490.882 | 4782318.229 | 102.690 | 811 |
| 3636 | 1 | 544481.969 | 4782317.363 | 102.710 | 400 |
| 3637 | 1 | 544482.090 | 4782318.383 | 102.714 | 327 |
| 3638 | 1 | 544482.120 | 4782318.448 | 102.679 | 318 |
| 3639 | 1 | 544476.969 | 4782317.515 | 102.681 | 811 |
| 3640 | 1 | 544475.179 | 4782316.868 | 102.701 | 400 |
| 3641 | 1 | 544468.695 | 4782316.300 | 102.683 | 400 |
| 3642 | 1 | 544464.246 | 4782316.150 | 102.694 | 706 |
| 3643 | 1 | 544462.021 | 4782315.736 | 102.688 | 400 |
| 3644 | 1 | 544461.542 | 4782316.717 | 102.703 | 327 |
| 3645 | 1 | 544461.562 | 4782316.732 | 102.767 | 318 |
| 3646 | 1 | 544455.652 | 4782314.876 | 102.675 | 400 |
| 3647 | 1 | 544452.814 | 4782316.716 | 102.814 | 327 |
| 3648 | 1 | 544450.793 | 4782316.557 | 102.764 | 327 |
| 3649 | 1 | 544452.985 | 4782316.351 | 102.624 | 318 |
| 3650 | 1 | 544452.854 | 4782317.036 | 102.789 | 318 |
| 3651 | 1 | 544450.771 | 4782316.887 | 103.025 | 318 |
| 3652 | 1 | 544451.861 | 4782315.144 | 102.805 | 805 |
| 3653 | 1 | 544470.705 | 4782311.445 | 102.503 | 327,109 |
| 3654 | 1 | 544477.070 | 4782311.987 | 102.510 | 327,109 |
| 3655 | 1 | 544485.028 | 4782312.475 | 102.450 | 327,109 |
| 3656 | 1 | 544491.740 | 4782311.554 | 101.976 | 101 I |
| 3657 | 1 | 544469.467 | 4782310.059 | 102.012 | 101 |
| 3658 | 1 | 544448.995 | 4782309.152 | 102.208 | 805 |
| 3659 | 1 | 544450.843 | 4782315.932 | 102.810 | 808 |
| 3660 | 1 | 544495.094 | 4782314.937 | 102.627 | 100 I |
| 3661 | 1 | 544492.798 | 4782302.437 | 102.632 | 100.331 |
| 3662 | 1 | 544495.215 | 4782312.534 | 102.616 | 100.331 |
| 3663 | 1 | 544495.580 | 4782312.304 | 102.482 | 706 |

**LISTADO DE PUNTOS
CUBRICION EIBAR - AZITAIN
08/07/013**

| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 3664 | 1 | 544515.055 | 4782310.886 | 102.127 | 101 |
| 3665 | 1 | 544523.567 | 4782312.177 | 102.263 | 101 |
| 3666 | 1 | 544541.202 | 4782311.579 | 102.251 | 318 I |
| 3667 | 1 | 544510.954 | 4782316.437 | 102.655 | 112 |
| 3668 | 1 | 544500.948 | 4782317.496 | 102.681 | 400 |
| 3669 | 1 | 544497.132 | 4782317.646 | 102.705 | 112 |
| 3670 | 1 | 544488.581 | 4782317.656 | 102.718 | 400 |
| 3671 | 1 | 544483.121 | 4782317.709 | 102.722 | 402 |
| 3672 | 1 | 544476.993 | 4782317.205 | 102.704 | 706 |
| 3673 | 1 | 544469.782 | 4782317.410 | 102.714 | 327 |
| 3674 | 1 | 544452.978 | 4782315.484 | 102.667 | 327 |
| 3675 | 1 | 544491.995 | 4782314.755 | 102.628 | 100 |
| 3676 | 1 | 544507.974 | 4782311.132 | 102.133 | 101 |
| 3677 | 1 | 544531.952 | 4782311.469 | 102.355 | 101 |
| 3678 | 1 | 544539.621 | 4782308.766 | 101.784 | 101 |
| 3679 | 1 | 544535.642 | 4782312.863 | 102.505 | 318 |
| 3680 | 1 | 544517.019 | 4782315.490 | 102.701 | 706 |
| 3681 | 1 | 544490.958 | 4782317.894 | 102.737 | 706 |
| 3682 | 1 | 544484.694 | 4782317.536 | 102.689 | 112 |
| 3683 | 1 | 544471.362 | 4782316.560 | 102.704 | 112 |
| 3684 | 1 | 544469.820 | 4782317.507 | 102.660 | 318 |
| 3685 | 1 | 544465.046 | 4782316.352 | 102.680 | 402 |
| 3686 | 1 | 544458.241 | 4782315.258 | 102.695 | 112 |
| 3687 | 1 | 544453.298 | 4782316.333 | 102.632 | 318 |
| 3688 | 1 | 544463.876 | 4782310.831 | 102.543 | 327,109 |
| 3689 | 1 | 544476.428 | 4782310.602 | 102.031 | 101 |
| 3690 | 1 | 544452.285 | 4782309.080 | 102.077 | 101 |
| 3691 | 1 | 544450.803 | 4782316.496 | 102.735 | 808 |
| 3692 | 1 | 544516.087 | 4782316.705 | 102.650 | 327 |
| 3693 | 1 | 544516.119 | 4782316.728 | 102.728 | 318 |
| 3694 | 1 | 544504.791 | 4782317.620 | 102.656 | 811 |
| 3695 | 1 | 544453.183 | 4782309.812 | 102.645 | 327,109 I |
| 3696 | 1 | 544491.996 | 4782312.712 | 102.591 | 327,109 |
| 3697 | 1 | 544452.841 | 4782316.076 | 102.848 | 808 I |
| 3698 | 1 | 544304.497 | 4782297.304 | 106.280 | 328 |
| 3699 | 1 | 544311.922 | 4782300.163 | 106.508 | 102 |
| 3700 | 1 | 544310.306 | 4782298.852 | 106.230 | 328 |
| 3701 | 1 | 544331.745 | 4782304.044 | 106.142 | 329 |
| 3702 | 1 | 544381.015 | 4782315.538 | 105.208 | 734 |
| 3703 | 1 | 544399.870 | 4782320.241 | 104.643 | 102 |
| 3704 | 1 | 544410.815 | 4782323.581 | 105.412 | 734 |
| 3705 | 1 | 544409.983 | 4782324.055 | 104.484 | 102 |
| 3706 | 1 | 544216.720 | 4782273.549 | 105.517 | 739 I |
| 3707 | 1 | 544219.413 | 4782274.420 | 105.522 | 739 |
| 3708 | 1 | 544341.617 | 4782298.335 | 106.270 | Insertado |
| 3709 | 1 | 544438.330 | 4782324.363 | 104.330 | Insertado |
| 3710 | 1 | 544439.256 | 4782320.285 | 104.340 | Insertado |
| 3711 | 1 | 544450.721 | 4782316.875 | 103.001 | 300 I |
| 3712 | 1 | 544450.964 | 4782313.858 | 102.758 | 300 |
| 3713 | 1 | 544453.203 | 4782310.515 | 102.666 | 300 I |
| 3714 | 1 | 544453.229 | 4782310.165 | 102.659 | 300 |
| 3715 | 1 | 544448.624 | 4782309.721 | 102.044 | 300 |
| 3716 | 1 | 544526.222 | 4782319.408 | 102.710 | Insertado |
| 3717 | 1 | 544550.285 | 4782309.558 | 102.670 | Insertado |
| 3718 | 1 | 543927.783 | 4782134.636 | 117.470 | Insertado |
| 3719 | 1 | 544134.965 | 4782222.978 | 106.708 | 006 |
| 3720 | 1 | 544156.881 | 4782269.871 | 145.445 | 101 I |
| 3721 | 1 | 544106.895 | 4782224.200 | 131.151 | 101 |
| 3722 | 1 | 544058.847 | 4782180.302 | 120.367 | 101 |
| 3723 | 1 | 544146.140 | 4782229.209 | 107.449 | 300 |
| 3724 | 1 | 544161.707 | 4782238.829 | 107.392 | 300 |

LISTADO DE PUNTOS
CUBRICION EIBAR - AZITAIN
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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|--------|
| 3725 | 1 | 544162.110 | 4782239.226 | 107.344 | 313 I |
| 3726 | 1 | 544161.132 | 4782240.278 | 107.730 | 313 |
| 3727 | 1 | 544142.717 | 4782228.988 | 107.376 | 313 |
| 3728 | 1 | 544134.978 | 4782224.414 | 108.739 | 314 I |
| 3729 | 1 | 544139.450 | 4782227.193 | 108.922 | 314 |
| 3730 | 1 | 544144.900 | 4782230.561 | 109.256 | 314 |
| 3731 | 1 | 544161.167 | 4782240.534 | 108.733 | 314 |
| 3732 | 1 | 544162.257 | 4782239.362 | 110.333 | 314 |

**LISTADO DE PUNTOS
CUBRICION EIBAR - AZITAIN
08/07/013**

| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 5001 | 1 | 543768.234 | 4782011.166 | 110.119 | 569 I |
| 5002 | 1 | 543749.873 | 4782030.449 | 112.550 | 313,300 I |
| 5003 | 1 | 543755.414 | 4782036.374 | 112.524 | 569 |
| 5004 | 1 | 543766.999 | 4782020.776 | 111.109 | 569 |
| 5005 | 1 | 543772.687 | 4782014.534 | 109.936 | 329 I |
| 5006 | 1 | 543762.214 | 4782015.536 | 111.191 | 705 |
| 5007 | 1 | 543749.940 | 4782030.357 | 117.651 | 314 |
| 5008 | 1 | 543661.933 | 4781980.391 | 129.736 | 300 |
| 5009 | 1 | 543654.833 | 4781977.545 | 128.890 | 300 I |
| 5010 | 1 | 543673.295 | 4781992.876 | 130.414 | 300 |
| 5011 | 1 | 543677.689 | 4781997.515 | 130.941 | 300 |
| 5012 | 1 | 543664.730 | 4781993.794 | 129.888 | 300 |
| 5013 | 1 | 543660.270 | 4781986.537 | 128.444 | Insertado |
| 5014 | 1 | 543666.070 | 4781985.802 | 129.505 | Insertado |
| 5015 | 1 | 543663.711 | 4781990.506 | 130.103 | 563 I |
| 5016 | 1 | 543682.401 | 4782000.255 | 131.620 | 300 I |
| 5017 | 1 | 543675.183 | 4781992.385 | 130.859 | 300 |
| 5018 | 1 | 543655.598 | 4781975.624 | 129.205 | 300 |
| 5019 | 1 | 543680.442 | 4782001.560 | 130.307 | 300 I |
| 5020 | 1 | 543677.316 | 4781997.848 | 129.968 | 300 |
| 5021 | 1 | 543665.748 | 4781986.186 | 128.842 | 300 |
| 5022 | 1 | 543661.341 | 4781983.037 | 128.516 | 300 |
| 5023 | 1 | 543657.917 | 4781980.336 | 128.235 | 300 |
| 5024 | 1 | 543663.333 | 4781989.425 | 128.708 | 300 |
| 5026 | 1 | 543673.001 | 4782001.996 | 130.555 | 300 I |
| 5027 | 1 | 543669.910 | 4781996.979 | 130.228 | 300 |
| 5028 | 1 | 543666.604 | 4781993.197 | 129.922 | 300 |
| 5029 | 1 | 543658.612 | 4781988.024 | 129.401 | 300 |
| 5030 | 1 | 543664.775 | 4781987.340 | 128.355 | 300 I |
| 5031 | 1 | 543664.809 | 4781987.976 | 128.353 | 300 |
| 5032 | 1 | 543664.413 | 4781988.171 | 128.376 | 300 |
| 5033 | 1 | 543670.314 | 4781996.681 | 129.351 | Insertado |
| 5034 | 1 | 543680.050 | 4781997.335 | 131.371 | 300 |
| 5035 | 1 | 543660.989 | 4781982.122 | 129.179 | 300 |
| 5036 | 1 | 543666.949 | 4781992.832 | 129.045 | 300 |
| 5037 | 1 | 543673.074 | 4782001.161 | 129.645 | 300 |
| 5038 | 1 | 543659.927 | 4781986.901 | 129.319 | 300 |
| 5039 | 1 | 543655.243 | 4781985.325 | 129.154 | 300 I |
| 5040 | 1 | 543670.769 | 4782001.399 | 130.578 | 300 |
| 5041 | 1 | 543768.143 | 4782010.711 | 110.218 | 327 I |
| 5042 | 1 | 543767.092 | 4782010.294 | 110.307 | 300 I |
| 5043 | 1 | 543763.840 | 4782014.796 | 110.982 | 327 |
| 5044 | 1 | 543762.154 | 4782014.387 | 111.120 | 300 |
| 5045 | 1 | 543760.783 | 4782015.876 | 111.311 | 313 I |
| 5046 | 1 | 543754.236 | 4782024.572 | 112.072 | 313 |
| 5047 | 1 | 543749.602 | 4782034.002 | 112.550 | 327 |
| 5048 | 1 | 543749.695 | 4782034.203 | 112.560 | 569 |
| 5049 | 1 | 543746.384 | 4782038.672 | 113.227 | 569 |
| 5050 | 1 | 543744.952 | 4782037.872 | 113.268 | 300 |
| 5051 | 1 | 543755.691 | 4782036.313 | 112.500 | 327 I |
| 5052 | 1 | 543758.392 | 4782035.857 | 112.509 | 313 I |
| 5053 | 1 | 543763.848 | 4782028.484 | 111.882 | 313 |
| 5054 | 1 | 543762.322 | 4782027.337 | 111.842 | 327 |
| 5055 | 1 | 543762.199 | 4782027.225 | 111.665 | 569 |
| 5056 | 1 | 543767.111 | 4782020.973 | 111.289 | 327 |
| 5057 | 1 | 543769.111 | 4782018.596 | 110.724 | 327 |
| 5058 | 1 | 543768.090 | 4782019.250 | 110.906 | 569,605 I |
| 5059 | 1 | 543770.040 | 4782019.916 | 110.805 | 313 I |
| 5060 | 1 | 543770.245 | 4782019.618 | 110.742 | 313,327 |
| 5061 | 1 | 543770.905 | 4782019.984 | 110.704 | 313 |
| 5062 | 1 | 543771.048 | 4782019.863 | 110.687 | 313,307 I |

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CUBRICION EIBAR - AZITAIN
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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 5063 | 1 | 543772.255 | 4782014.570 | 110.004 | 605 |
| 5064 | 1 | 543772.848 | 4782014.763 | 110.010 | 605 I |
| 5065 | 1 | 543769.235 | 4782018.483 | 110.710 | 605 |
| 5066 | 1 | 543768.885 | 4782021.182 | 111.149 | 806 |
| 5067 | 1 | 543758.409 | 4782035.158 | 112.452 | 806 |
| 5068 | 1 | 543748.574 | 4782033.883 | 112.569 | 739 |
| 5069 | 1 | 543754.048 | 4782035.141 | 112.463 | 770 |
| 5070 | 1 | 543753.060 | 4782034.874 | 112.496 | 751 |
| 5071 | 1 | 543752.762 | 4782033.017 | 112.397 | 751 |
| 5072 | 1 | 543749.772 | 4782038.942 | 112.993 | 563 I |
| 5073 | 1 | 543766.064 | 4782015.861 | 110.751 | 751 |
| 5074 | 1 | 543768.813 | 4782010.947 | 110.032 | 705 |
| 5075 | 1 | 543765.228 | 4782012.253 | 110.647 | 736 |
| 5076 | 1 | 543763.837 | 4782014.081 | 110.937 | 805 |
| 5077 | 1 | 543761.010 | 4782016.256 | 111.314 | 806 |
| 5078 | 1 | 543750.294 | 4782030.732 | 112.545 | 736 |
| 5079 | 1 | 543761.152 | 4782015.349 | 117.665 | 314 I |
| 5080 | 1 | 543769.592 | 4782020.814 | 117.670 | 314 |
| 5081 | 1 | 543763.801 | 4782028.653 | 117.639 | 314 |
| 5082 | 1 | 543754.712 | 4782023.911 | 117.633 | 314 |
| 5083 | 1 | 543770.159 | 4782020.005 | 110.805 | Insertado |
| 5084 | 1 | 543762.566 | 4782016.485 | 111.236 | 327 |
| 5085 | 1 | 543762.713 | 4782016.653 | 111.049 | 569 |
| 5086 | 1 | 543751.322 | 4782040.952 | 113.097 | 569 I |
| 5087 | 1 | 543756.446 | 4782039.001 | 112.748 | 103 |
| 5088 | 1 | 543768.591 | 4782022.094 | 111.349 | 313 |
| 5089 | 1 | 543769.479 | 4782020.911 | 111.061 | 313 |
| 5090 | 1 | 543768.992 | 4782018.355 | 110.652 | 329 |
| 5091 | 1 | 543773.784 | 4782017.473 | 110.527 | 307,605 I |
| 5092 | 1 | 543772.597 | 4782016.499 | 110.170 | 605 |
| 5093 | 1 | 543753.117 | 4782030.812 | 112.271 | 805 |
| 5094 | 1 | 543759.993 | 4782025.269 | 111.710 | 563 |
| 5095 | 1 | 543765.400 | 4782017.966 | 111.025 | 563 |
| 5096 | 1 | 543770.475 | 4782012.676 | 110.037 | 563 |
| 5097 | 1 | 543750.727 | 4782029.985 | 112.513 | 806 |
| 5098 | 1 | 543758.450 | 4782035.862 | 117.624 | 314 |
| 5099 | 1 | 543764.116 | 4782015.153 | 110.831 | 569 |
| 5100 | 1 | 543761.447 | 4782015.088 | 111.223 | 300 |
| 5101 | 1 | 543752.890 | 4782029.627 | 112.364 | 327 |
| 5102 | 1 | 543756.823 | 4782034.778 | 112.517 | 327 |
| 5103 | 1 | 543770.417 | 4782016.449 | 110.374 | 605 |
| 5104 | 1 | 543758.172 | 4782036.193 | 112.534 | 736 |
| 5105 | 1 | 543754.599 | 4782036.984 | 112.577 | 739 I |
| 5106 | 1 | 543752.494 | 4782036.511 | 112.604 | 771 |
| 5107 | 1 | 543763.963 | 4782015.750 | 110.886 | 751 |
| 5108 | 1 | 543666.871 | 4781984.529 | 130.159 | 300 |
| 5109 | 1 | 543680.756 | 4782001.188 | 131.254 | 300 |
| 5110 | 1 | 543672.938 | 4781993.227 | 129.535 | 300 |
| 5111 | 1 | 543906.441 | 4782120.635 | 114.321 | 309 I |
| 5112 | 1 | 543905.596 | 4782122.176 | 114.324 | 309 |
| 5113 | 1 | 543904.306 | 4782121.450 | 114.274 | 309 |
| 5114 | 1 | 543901.246 | 4782119.775 | 112.655 | 309 |
| 5115 | 1 | 543902.149 | 4782118.162 | 112.653 | 309 |
| 5116 | 1 | 543905.142 | 4782119.925 | 114.280 | 309 |
| 5117 | 1 | 543902.066 | 4782118.087 | 112.651 | 739 I |
| 5118 | 1 | 543901.204 | 4782119.730 | 112.651 | 739 |
| 5119 | 1 | 543898.440 | 4782118.495 | 112.687 | 739 I |
| 5120 | 1 | 543899.391 | 4782116.841 | 112.670 | 739 |
| 5121 | 1 | 543910.188 | 4782125.297 | 116.021 | 313 I |
| 5122 | 1 | 543911.322 | 4782123.300 | 116.022 | 313 |
| 5123 | 1 | 543909.578 | 4782122.358 | 115.998 | 313,309 I |

LISTADO DE PUNTOS
CUBRICION EIBAR - AZITAIN
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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|--------------|
| 5124 | 1 | 543908.680 | 4782124.025 | 115.970 | 309 |
| 5125 | 1 | 543902.200 | 4782118.142 | 112.637 | 313 |
| 5126 | 1 | 543902.786 | 4782117.116 | 112.628 | 313 |
| 5127 | 1 | 543903.743 | 4782109.050 | 112.700 | 313 |
| 5128 | 1 | 543904.389 | 4782103.555 | 112.660 | 313 |
| 5129 | 1 | 543901.627 | 4782101.791 | 112.694 | 313 I |
| 5130 | 1 | 543900.614 | 4782110.413 | 112.691 | 313 |
| 5131 | 1 | 543899.919 | 4782116.133 | 112.662 | 313 |
| 5132 | 1 | 543899.609 | 4782116.673 | 112.655 | 313 |
| 5133 | 1 | 543899.375 | 4782116.553 | 112.660 | 313,300 I |
| 5134 | 1 | 543898.239 | 4782118.544 | 112.681 | 300 |
| 5135 | 1 | 543897.596 | 4782118.207 | 112.684 | 313 I |
| 5136 | 1 | 543896.628 | 4782119.870 | 112.689 | 313 |
| 5137 | 1 | 543900.099 | 4782121.831 | 112.703 | 313 |
| 5138 | 1 | 543897.775 | 4782120.317 | 112.666 | 706 |
| 5139 | 1 | 543903.868 | 4782106.920 | 112.719 | 739 I |
| 5140 | 1 | 543901.177 | 4782106.588 | 112.702 | 739 |
| 5141 | 1 | 543900.895 | 4782116.501 | 115.395 | 103 |
| 5142 | 1 | 543902.517 | 4782106.060 | 115.375 | 103 |
| 5143 | 1 | 544220.850 | 4782270.195 | 105.496 | 313 |
| 5144 | 1 | 544218.272 | 4782268.482 | 105.481 | 313 |
| 5145 | 1 | 544222.489 | 4782264.756 | 105.473 | 739 |
| 5146 | 1 | 544219.798 | 4782263.886 | 105.454 | 739 C |
| 5147 | 1 | 544220.708 | 4782265.920 | 108.208 | 103 |
| 5148 | 1 | 544218.238 | 4782273.361 | 108.215 | 103 |
| 5149 | 1 | 544578.344 | 4782295.147 | 110.444 | 311 I |
| 5150 | 1 | 544579.623 | 4782296.658 | 110.418 | 327 I, 609 I |
| 5151 | 1 | 544566.160 | 4782305.827 | 111.274 | 327, 609 |
| 5152 | 1 | 544566.290 | 4782305.926 | 111.065 | 605 I |
| 5153 | 1 | 544564.582 | 4782304.374 | 111.273 | 311 |
| 5154 | 1 | 544558.467 | 4782308.774 | 111.727 | 501 |
| 5155 | 1 | 544545.817 | 4782316.904 | 112.506 | 311 |
| 5156 | 1 | 544546.933 | 4782318.666 | 112.514 | 327, 609 |
| 5157 | 1 | 544547.004 | 4782318.877 | 112.279 | 605 |
| 5158 | 1 | 544545.416 | 4782319.317 | 112.583 | 706 |
| 5159 | 1 | 544534.838 | 4782326.546 | 113.303 | 327, 609 |
| 5160 | 1 | 544534.879 | 4782326.735 | 113.062 | 605 |
| 5161 | 1 | 544532.978 | 4782325.433 | 113.338 | 311 |
| 5162 | 1 | 544521.837 | 4782332.166 | 114.121 | 311 |
| 5163 | 1 | 544522.791 | 4782333.779 | 114.130 | 327, 609 |
| 5164 | 1 | 544522.854 | 4782333.989 | 113.870 | 605 |
| 5165 | 1 | 544522.732 | 4782331.970 | 114.090 | 331 I |
| 5166 | 1 | 544532.711 | 4782325.893 | 113.367 | 331 |
| 5167 | 1 | 544582.656 | 4782307.913 | 110.529 | 311 I |
| 5168 | 1 | 544581.477 | 4782306.955 | 110.560 | 327 I, 609 I |
| 5169 | 1 | 544581.368 | 4782306.808 | 110.295 | 605 I |
| 5170 | 1 | 544576.945 | 4782310.930 | 110.930 | 311 |
| 5171 | 1 | 544575.103 | 4782311.039 | 111.020 | 327, 609 |
| 5172 | 1 | 544574.681 | 4782311.080 | 110.767 | 605 |
| 5173 | 1 | 544562.564 | 4782319.067 | 111.634 | 605 |
| 5174 | 1 | 544562.653 | 4782319.254 | 111.875 | 327, 609 |
| 5175 | 1 | 544563.380 | 4782320.010 | 111.889 | 311 |
| 5176 | 1 | 544550.489 | 4782328.623 | 112.852 | 311 |
| 5177 | 1 | 544549.616 | 4782327.974 | 112.849 | 327, 609 |
| 5178 | 1 | 544549.341 | 4782327.885 | 112.578 | 605 |
| 5179 | 1 | 544538.471 | 4782334.876 | 113.350 | 605 |
| 5180 | 1 | 544538.504 | 4782335.156 | 113.653 | 327, 609 |
| 5181 | 1 | 544539.269 | 4782336.123 | 113.622 | 311 |
| 5182 | 1 | 544531.023 | 4782340.916 | 114.231 | 311 |
| 5183 | 1 | 544530.701 | 4782339.824 | 114.229 | 327, 609 |
| 5184 | 1 | 544530.520 | 4782339.730 | 113.849 | 605 |

LISTADO DE PUNTOS
CUBRICION EIBAR - AZITAIN
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| Numero | Nivel | Coord. X | Coord. Y | Coord. Z | Codigo |
|--------|-------|------------|-------------|----------|-----------|
| 5185 | 1 | 544528.317 | 4782341.191 | 114.035 | 327 |
| 5186 | 1 | 544528.741 | 4782341.881 | 114.038 | 327,311 |
| 5187 | 1 | 544528.856 | 4782341.703 | 114.054 | 331 I |
| 5188 | 1 | 544532.028 | 4782340.193 | 114.175 | 331 |
| 5189 | 1 | 544579.716 | 4782296.811 | 110.209 | Insertado |
| 5190 | 1 | 544216.627 | 4782273.588 | 105.500 | Insertado |
| 5191 | 1 | 544219.483 | 4782274.499 | 105.500 | Insertado |
| 5192 | 1 | 544219.413 | 4782274.420 | 105.522 | Insertado |
| 5193 | 1 | 544216.720 | 4782273.549 | 105.517 | Insertado |

APÉNDICE 4: APARATOS UTILIZADOS Y SUS CERTIFICADOS DE CALIBRACION

GeoMax GNSS

Series Zenith10 y Zenith20



Serie Zenith 10 y Zenith 20

Datos técnicos

Receptor GNSS serie Zenith

Especificaciones del receptor

| | |
|--|---|
| NovAtel AdVance® tecnología | |
| Zenith10 | 72 canales (GPS y GLONASS) |
| Zenith20 | 120 canales (GPS/GLONASS/Galileo) |
| Realiza un seguimiento de las señales de satélite: | |
| GPS | L1, L2, L2C |
| GLONASS | L1, L2 |
| Galileo* | |
| Medición cruda y salida de datos a 5 Hz | |
| 20 Hz opcional | |
| Tiempo de inicialización RTK: menos de 10 seg** | |
| Tiempo de captura inicial menos de 15 seg** | |
| Memoria interna | 256 MB (más de 60 días de almacenamiento de datos estáticos con grabación muestra cada 15s) |
| Registro de datos sin procesar a memoria interna o tarjeta MicroSD | |

Precisión de receptor

| | |
|---|-------------------------|
| Prec. horizontal estático | 5 mm ± 0.5 ppm (RMS)** |
| Prec. vertical estática | 10 mm ± 0.5 ppm (RMS)** |
| Prec. horizontal dinámica | 10 mm ± 1 ppm (RMS)** |
| Prec. vertical dinámica | 20 mm ± 1 ppm (RMS)** |
| Posicionamiento diferencial DGPS/RTCM: 0.25 m (RMS)** | |

Protocolos de serie

| | |
|-----------------------|---|
| Formato RTK | CMR, CMR+, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1 |
| Salidas de navegación | ASCII (NMEA-0183) |

* El seguimiento opcional de L5 y Galileo estará disponible una vez que existen suficientes satélites.

** Las precisiones de posición dependen de varios factores, incluyendo el número de satélites, geometría, condiciones ionosféricas, multipath, etc.

Ordenador de campo PS236

Sistema

| | |
|----------------------|---------------------------------------|
| Sistema operativo: | Microsoft Windows Mobile® 6.1 Classic |
| Procesador: | Marvell PXA310 806MHz |
| Memoria: | NAND flash de 256MB y iNAND de 4GB |
| Ranura de expansión: | Ranura de tarjeta SDHC (hasta 16GB) |

Interfaz

| | |
|-----------------------|--|
| Pantalla: | Táctil TFT LCD VGA (480 x 640) de 3.5" |
| Teclado: | Teclado numérico tipo teléfono con 21 teclas y retroiluminación asistida |
| Puertos de datos: | puerto serie (9 pines) y puerto USB (mini AB) |
| Conexión inalámbrica: | Bluetooth® clase II |

Windows® Mobile es una marca registrada de Microsoft Corporation. El Bluetooth® marca y logotipos son propiedad de Bluetooth SIG. Novatel OnBoard® y AdVance® son marcas registradas de Novatel Inc. Otras marcas y nombres comerciales son los de sus respectivos propietarios.



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Dispositivos de conexión

| | |
|---|--|
| Conectores Entrada/Salida: | |
| Conector LEMO de 5 pines para fuente de alimentación externa y conexión serie | |
| Conector LEMO de 4 pines para conectar con puerto USB del PC | |
| Dos conectores TNC para antenas UHF y GSM | |
| Bluetooth® clase II | |
| Radio interna con potencia de transmisión de 1W. Gama de frecuencia programable de 403 a 473 MHz, opcional. | |
| Módem de datos GSM/GPRS a 800 MHz, 900 MHz, 1800 MHz, y 1900 MHz | |
| Ranura de tarjeta SIM en el compartimiento de la batería | |
| Ranura de tarjeta MicroSD en el compartimiento de la batería | |

Fuente de alimentación

| | |
|---|--|
| Baterías intercambiables 2500mAh / 7.4V de ion-litio proporcionando de 4/5 hr. de autonomía en modo RTK | |
| Entrada de alimentación externa de 9V a 18V con protección de sobre-voltaje | |

Especificaciones físicas

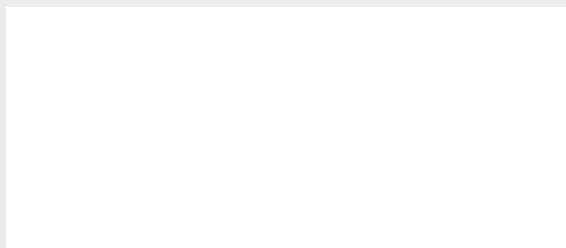
| | |
|----------------------|--|
| Tamaño | altura 94 mm x diámetro 188 mm |
| Peso | 1.2 kg con batería interna y radio UHF |
| Tª operativa | -30°C a 60°C (-22°F a 140°F) |
| Tª almacenamiento | -40°C a 80°C (-40°F a 176°F) |
| Clase de protección | IP67 |
| Humedad | 100% |
| Resistencia a golpes | diseñado para sobrevivir a una caída en jalón de 2 m |

Especificaciones físicas

| | |
|---------------------|--|
| Dimensiones | 89 x 30 x 178 mm |
| Peso | 530 g incluyendo la batería |
| Peso de Rover | 3.1 kg para la instalación completa en jalón |
| Tª operativa | -30°C a 60°C (-22°F a 140°F) |
| Tª almacenamiento | -40°C a 70°C (-40°F a 160°F) |
| Clase de protección | IP67 |
| Humedad | 95%, sin condensación |

Fuente de alimentación

| | |
|--|--|
| Batería extraíble de 5600mAh / 3.7V de ion-litio | |
| Proporcionando hasta 10 horas de autonomía | |
| Cargador Interno con adaptador de AC incluido | |



PRINCIPALES CARACTERÍSTICAS

Tecnología de medición de reflexión directa DR 200+ EDM (MED) que proporciona medidas sin prisma de hasta 600 m

Servo de cuatro velocidades para aumentar la productividad

Potente software de campo de Trimble

Flujo de datos integral



ESTACIÓN TOTAL SERVOASISTIDA ALTAMENTE PRODUCTIVA

La Estación Total Trimble® 5503 es un instrumento servoasistido que le permite acceder a métodos altamente productivos adecuados a la situación de cada levantamiento. La Estación Total Trimble 5503 es una solución totalmente segura y productiva para todas sus aplicaciones convencionales de estación total.

La 5503 cuenta con funciones de servomotor avanzadas lo que aumentará la productividad general en un 30% con respecto a los instrumentos mecánicos y permitirá una mejora significativa en las tareas de replanteo.

LAS FUNCIONES DE SERVMOTOR AUMENTAN LA PRODUCTIVIDAD EN UN 30%

A diferencia de las estaciones totales mecánicas convencionales, la estación total 5503 cuenta con servomotores integrados que controlan el movimiento horizontal y vertical. Para girar el instrumento y controlar los servomotores, se utilizan tornillos de ajuste: cuanto más rápido es el movimiento más deprisa funciona el servomotor, y viceversa. Asimismo, el sistema servoasistido elimina la necesidad de utilizar los mandos de movimiento tradicionales al mismo tiempo que proporciona un movimiento de ajuste por fricción (tangentes sin fin).

Los tornillos de ajuste del 5503 son grandes y se han diseñado ergonómicamente, de forma que el instrumento pueda alinearse con un ligero movimiento circular del dedo.

Las funciones avanzadas con que cuenta el sistema 5503 servoasistido permiten aumentar la productividad de forma muy considerable. Se ahorra tiempo al medir hacia una serie de objetivos, ya que una vez obtenida la primera serie de mediciones, el instrumento gira automáticamente a su posición de círculo inverso y se dispone a realizar la medición. Lo único que tiene que hacer el usuario, es realizar la puntería fina antes de proceder con la medición.

Para realizar más rápidamente las aplicaciones de replanteo, los servomotores giran el instrumento y lo alinean con una única pulsación de tecla: el instrumento puede colocarse horizontal, verticalmente o de ambas formas. Los servomotores también pueden utilizarse para ahorrar el tiempo que se tarda en extender la línea, basta con presionar una sola tecla para que el instrumento gire 180 grados.

DR 200+

Los objetos que antes resultaban difíciles o prácticamente imposibles de medir con un prisma, ahora pueden medirse sin el menor esfuerzo utilizando la 5503 DR 200+EDM (MED). Los límites de edificios y esquinas visibles pueden medirse sin tener que acceder a la propiedad, y los cables de catenarias en suspensión, túneles, puentes, frentes de canteras, acopios, edificios y elevaciones pueden medirse con seguridad rápida y fácilmente.

La estación 5503 DR 200+ de largo alcance permite medir hasta 600 m (1.970 ps) a una tarjeta de grises Kodak (90% reflectante), y 200 m (656 ps) a una tarjeta de grises Kodak (18% reflectante). Es decir, con ella se puede medir 3,3 veces más lejos que con las estaciones totales sin prismas (sin reflectores) estándar. Y el alcance usando un solo prisma es de 5.500 m (18.040 ps) con una precisión de $\pm(3 \text{ mm} + 3 \text{ ppm})$.

LEVANTAMIENTO TOTALMENTE INTEGRADO

Las soluciones de levantamiento integrado de Trimble (Integrated Surveying™) le ofrecen lo mejor de levantamientos ópticos y GPS. Sólo hay que intercambiar el controlador Trimble entre ambos sistemas, según sea necesario. El potente software de campo de Trimble proporciona un flujo de datos integral.

Puede confiar plenamente en este equipo de Trimble, puesto a prueba en el campo, que le ayudará a aumentar su productividad y facilitará su trabajo cotidiano.

La Estación Total Trimble 5503 es compatible con el Trimble CU, Trimble ACU y el controlador Geodimeter CU.

ESTACIÓN TOTAL TRIMBLE 5503 DR ESTÁNDAR

ESPECIFICACIONES DE RENDIMIENTO

Medición de ángulos

| | |
|---|---|
| Precisión (Desviación típica basada en DIN 18723) | 3" (1,0 mgon) |
| Lectura de ángulos (cuenta mínima) | |
| Horizontal y vertical | |
| Medición estándar | 1" (0,1 mgon) |
| Estándar rápida | 1" (0,1 mgon) |
| Rastreo | 2" (0,5 mgon) |
| Valor medio aritmético (D-bar) | |
| Ángulo horizontal y vertical | 1" (0,1 mgon) |
| Compensador de nivelación automática | Compensador de dos ejes ±6' (±100 mgon) |

Medición de distancias

| | |
|--|---|
| Precisión (desviación típica) | |
| Prisma, MED de DR Estándar de alta precisión* | |
| Medición estándar | ±(2 mm + 2 ppm) ±(0,007 pies + 2 ppm) |
| Estándar rápida | ±(3 mm + 2 ppm) ±(0,01 pies + 2 ppm) |
| Rastreo | ±(5 mm + 2 ppm) ±(0,016 pies + 2 ppm) |
| Valor medio aritmético (D-bar) | ±(1 mm + 1 ppm) ±(0,003 pies + 1 ppm) |
| Prisma, MED de DR Estándar | |
| Medición estándar | ±(2 mm + 2 ppm) ±(0,007 pies + 2 ppm) |
| Estándar rápida | ±(3 mm + 2 ppm) ±(0,01 pies + 2 ppm) |
| Rastreo | ±(5 mm + 2 ppm) ±(0,016 pies + 2 ppm) |
| Valor medio aritmético (D-bar) | ±(2 mm + 2 ppm) ±(0,007 pies + 2 ppm) |
| Lámina reflexiva | |
| Medición estándar | ±(3 mm + 2 ppm) ±(0,01 pies + 2 ppm) |
| Estándar rápida | ±(3 mm + 2 ppm) ±(0,01 pies + 2 ppm) |
| Rastreo | ±(5 mm + 2 ppm) ±(0,016 pies + 2 ppm) |
| Valor medio aritmético (D-bar) | ±(3 mm + 2 ppm) ±(0,01 pies + 2 ppm) |
| Modo Reflexión directa | |
| Medición estándar | ±(3 mm + 2 ppm) ±(0,01 pies + 2 ppm) |
| Estándar rápida | ±(5 mm + 2 ppm) ±(0,016 pies + 2 ppm) |
| Rastreo | ±(10 mm + 2 ppm) ±(0,032 pies + 2 ppm) |
| Valor medio aritmético (D-bar) | ±(3 mm + 2 ppm) ±(0,01 pies + 2 ppm) |
| Distancia más corta posible | |
| Al prisma | 1,5 m (4,9 pies) |
| Reflexión directa | 1,5 m (4,9 pies) |
| Lámina reflexiva | 2,5 m (8,2 pies) |
| Tiempo de medición | |
| Modo Prisma | |
| Medición estándar | 2 s |
| Estándar rápida | 1,8 s |
| Rastreo | 0,5 s |
| Valor medio aritmético (D-bar) | 3,5 s por medición. Se repite hasta pararlo manualmente (o después de realizar 99 mediciones) |
| Modo Reflexión directa | |
| Medición estándar | 3 s hasta 30 m (98,4 pies) +1 s/10 m (32,8 pies) |
| Estándar rápida | 2 s hasta 30 m (98,4 pies) +1 s/10 m (32,8 pies) |
| Rastreo | 0,8 s hasta 30 m (98,4 pies) +1 s/10 m (32,8 pies) |
| Valor medio aritmético (D-bar) | 3,5 s por medición. Se repite hasta pararlo manualmente (o después de realizar 99 mediciones) |
| Distancia (estándar clara**) | |
| Distancia utilizando un prisma | |
| 1 prisma | 3.000 m (9.840 pies) |
| Modo Largo alcance con un prisma (para mediciones >1000 m solamente) | 5.000 m (16.400 pies) |
| 3 prismas | 5.000 m (16.400 pies) |
| Modo Largo alcance con 3 prismas (para mediciones >1000 m solamente) | 7.500 m (24.600 pies) |
| Distancia utilizando una lámina reflexiva | |
| Lámina reflexiva 20 mm | 100 m (328 pies) |
| Lámina reflexiva 20 mm Modo Largo alcance | 200 m (656 pies) |
| Lámina reflexiva 60 mm | 250 m (820 pies) |
| Lámina reflexiva 60 mm Modo Largo alcance | 800 m (2.625 pies) |
| Mediciones de distancias con reflexión directa (típicas) | |
| Tarjeta Kodak Gray (con un nivel de reflexión del 18%***) | 50 m (164 pies) |
| Tarjeta Kodak Gray (con un nivel de reflexión del 90%***) | 70 m (230 pies) |
| Concreto (hormigón) | 40–50 m (131–197 pies) |
| Construcción de madera | 40–60 m (131–197 pies) |
| Construcción metálica | 40–60 m (131–197 pies) |
| Rocas claras | 40–50 m (131–164 pies) |
| Rocas oscuras | 30–40 m (98–131 pies) |

** Estándar clara: Cuando está nublado o cuando hay luz solar moderada sin resplandor y sin niebla. La distancia y la precisión dependen de las condiciones atmosféricas y la radiación de fondo.

*** Tarjeta Kodak Gray, catálogo número E1527795.

ESTACIÓN TOTAL TRIMBLE 5503 DR 200 ESTÁNDAR

ESPECIFICACIONES DE RENDIMIENTO

Medición de ángulos

| | |
|---|--|
| Precisión (Desviación típica basada en DIN 18723) | 3" (1,0 mgon) |
| Lectura de ángulo (cuenta mínima) | |
| Horizontal y vertical | |
| Medición estándar | 1" (0,1 mgon) |
| Estándar rápida | 1" (0,1 mgon) |
| Rastreo | 2" (0,5 mgon) |
| Valor medio aritmético (D-bar) | |
| Ángulo horizontal y vertical | 1" (0,1 mgon) |
| Compensador de nivelación automática | Compensador de dos ejes $\pm 6'$ (± 100 mgon) |

Medición de distancias

| | |
|--|---|
| Precisión (desviación típica) | |
| Prisma | |
| Medición estándar | $\pm(3 \text{ mm} + 3 \text{ ppm}) \pm(0,01 \text{ pies} + 3 \text{ ppm})$ |
| Estándar rápida | $\pm(8 \text{ mm} + 3 \text{ ppm}) \pm(0,025 \text{ pies} + 3 \text{ ppm})$ |
| Rastreo | $\pm(10 \text{ mm} + 3 \text{ ppm}) \pm(0,032 \text{ pies} + 3 \text{ ppm})$ |
| Valor medio aritmético (D-bar) | $\pm(3 \text{ mm} + 3 \text{ ppm}) \pm(0,01 \text{ pies} + 3 \text{ ppm})$ |
| Lámina reflexiva | |
| Medición estándar | $\pm(3 \text{ mm} + 3 \text{ ppm}) \pm(0,01 \text{ pies} + 3 \text{ ppm})$ |
| Estándar rápida | $\pm(8 \text{ mm} + 3 \text{ ppm}) \pm(0,025 \text{ pies} + 3 \text{ ppm})$ |
| Rastreo | $\pm(10 \text{ mm} + 3 \text{ ppm}) \pm(0,032 \text{ pies} + 3 \text{ ppm})$ |
| Valor medio aritmético (D-bar) | $\pm(3 \text{ mm} + 3 \text{ ppm}) \pm(0,01 \text{ pies} + 3 \text{ ppm})$ |
| Modo Reflexión directa | |
| 5–200 m (16,4 pies–656 pies) | |
| Medición estándar | $\pm(3 \text{ mm} + 3 \text{ ppm}) \pm(0,01 \text{ pies} + 3 \text{ ppm})$ |
| Estándar rápida | $\pm(8 \text{ mm} + 3 \text{ ppm}) \pm(0,025 \text{ pies} + 3 \text{ ppm})$ |
| Rastreo | $\pm(10 \text{ mm} + 3 \text{ ppm}) \pm(0,032 \text{ pies} + 3 \text{ ppm})$ |
| Valor medio aritmético (D-bar) | $\pm(3 \text{ mm} + 3 \text{ ppm}) \pm(0,01 \text{ pies} + 3 \text{ ppm})$ |
| >200 m (656 pies) | $\pm(5 \text{ mm} + 3 \text{ ppm}) \pm(0,016 \text{ pies} + 3 \text{ ppm})$ |
| Distancia más corta posible | |
| Al prisma | 2 m (6,56 pies) |
| Reflexión directa | 2 m (6,56 pies) |
| Lámina reflexiva | 2 m (6,56 pies) |
| Tiempo de medición | |
| Modo Prisma | |
| Medición típica | 3 s |
| Estándar rápida | 3 s |
| Rastreo | 0,4 s |
| Valor medio aritmético (D-bar) | 3,5 s por medición. Se repite hasta pararlo manualmente (o después de realizar 99 mediciones) |
| Modo Reflexión directa | |
| Medición estándar | 3–7 s |
| Estándar rápida | 3–7 s |
| Rastreo | 0,4 s |
| Valor medio aritmético (D-bar) | 3,5 s por medición. Se repite hasta pararlo manualmente (o después de realizar 99 mediciones) |
| Distancia (estándar clara*) | |
| Distancia utilizando un prisma | |
| 1 prisma | 2.500 m (8.200 pies) |
| Modo Largo alcance con 1 prisma | 5.500 m (18.040 pies) (alcance máx.) |
| 3 prismas | 2.500 m (8.200 pies) |
| Modo Largo alcance con 3 prismas | 5.500 m (18.040 pies) (alcance máx.) |
| Medición de distancias con reflexión directa (típica) | |
| Tarjeta Kodak Gray (con un nivel de reflexión del 18%)** | >200 m (656 pies) |
| Tarjeta Kodak Gray (con un nivel de reflexión del 90%)** | >600 m (1.968 pies) |
| Concreto (hormigón) | 200–300 m (656–984 pies) |
| Construcción de madera | 150–300 m (492–984 pies) |
| Construcción metálica | 150–200 m (492–656 pies) |
| Rocas claras | 150–250 m (492–820 pies) |
| Rocas oscuras | 100–150 m (328–492 pies) |
| Distancia utilizando una lámina reflexiva en el modo Reflexión directa | |
| Lámina reflexiva 20 mm | 800 m (2.624 pies) |
| Lámina reflexiva 60 mm | 1.600 m (5.248 pies) |

* Estándar clara: Cuando está nublado o cuando hay luz solar moderada sin resplandor y sin niebla. La distancia y la precisión dependen de las condiciones atmosféricas y la radiación de fondo.

** Tarjeta Kodak Gray, catálogo número E1527795.

ESPECIFICACIONES GENERALES

Trimble 5503 DR 200+

Fuente de luz Diodo láser de impulsos 870 nm
Láser clase 1

Divergencia del rayo
Horizontal 0,4 mrad (4 cm/100 m) (0,13 pies/328 pies)
Vertical 0,8 mrad (8 cm/100 m) (0,26 pies/328 pies)

Trimble 5503 DR Estándar

Fuente de luz Diodo láser 660 nm
Láser clase 1 en el modo Prisma
Láser clase 2 Reflexión directa

Puntero láser coaxial (Estándar) Láser clase 2

Divergencia del rayo
Horizontal 0,4 mrad (4 cm/100 m) (0,13 pies/328 pies)
Vertical 0,8 mrad (8 cm/100 m) (0,26 pies/328 pies)

General

Corrección atmosférica -60 a 195 ppm continuamente

Nivelación
Nivel esférico en plataforma nivelante 8'/2 mm (8'/0,007 pies)
Nivel electrónico de 2 ejes en
la pantalla (LCD) con una resolución de 6' (2 mgon)

Tornillos de bloqueo y movimientos lentos Servocontrol.
Ajuste fino sin fin

Centrado

Sistema de centrado 3 pines de Trimble.
Plomada óptica Plomada óptica en la plataforma nivelante

Aumentos 2.4x
Distancia de enfoque más corta 0,5 m (1,6 pies) al infinito

Telescopio

Aumentos 26x (30x opcional)
Apertura 40 mm (1,57 pulg.)
Campo visual en 100 m (328 pies) 2,6 m (8,5 pies)
Distancia de enfoque más corta 1,7 m (5,58 pies) al infinito
Cruz filar iluminada Variable (15 pasos)

Tracklight

Tracklight Opcional

Temperatura para el funcionamiento

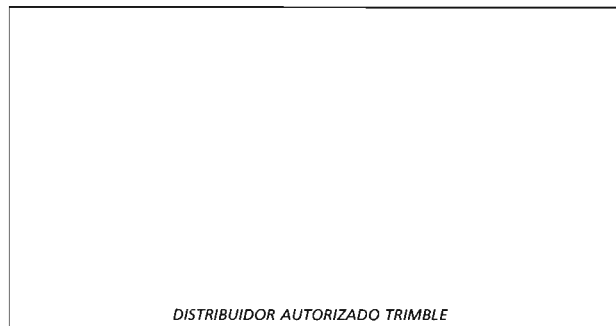
Temperatura para el funcionamiento -20 °C a +50 °C (-5 °F a +122 °F)

Fuente de alimentación
Batería interna Batería NiMH recargable de 12 V, 1.8 Ah
Batería externa Baterías NiMH externas recargables de 12 V,
3.8-11.4 Ah

Peso

Instrumento (sin incluir el controlador) 6,6 kg (14,5 lb)
Plataforma nivelante 0,7 kg (1,5 lb)
Batería interna 0,4 kg (0,9 lb)
Altura del eje del muñón 205 mm (8,1 pulg.)

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DISTRIBUIDOR AUTORIZADO TRIMBLE

AMÉRICA DEL NORTE

Trimble Engineering &
Construction Group
5475 Kellenburger Road
Dayton, Ohio 45424-1099
EE.UU.
800-538-7800 (Teléfono sin cargo)
Teléfono +1-937-245-5154
Fax +1-937-233-9441



EUROPA

Trimble GmbH
Am Prime Parc 11
65479 Raunheim • ALEMANIA
Teléfono +49-6142-2100-0
Fax +49-6142-2100-550

ASIA-PACÍFICO

Trimble Navigation
Singapore Pty Limited
80 Marine Parade Road
#22-06, Parkway Parade
Singapore 449269 • SINGAPUR
Teléfono +65-6348-2212
Fax +65-6348-2232



www.trimble.com



Certificado de Calibración

Ciente

Nombre: INGENIERÍA TÉCNICA TOPOLAN SLP
Domicilio: C/Novia Salcedo, 9 - Dpto. 1
Población: Bilbao Provincia: VIZCAYA C.P. 48012
C.I.F./N.I.F. B95173852

Nº Certificado: 6 000068

Fecha: 03/09/2012

IDENTIFICACIÓN INSTRUMENTO

Estación Total Trimble 5503 DR 200+; s/n:81920652

IDENTIFICACIÓN PATRONES UTILIZADOS

Colimador marca Zeiss West con número de serie L106/200702 verificado según procedimiento interno de Fortop PI.04 con certificado de calibración del Centro Español de Metrología CEM 070109001.

INCERTIDUMBRE ASOCIADA A LOS PATRONES

La incertidumbre expandida asociada a las desviaciones es: $U=+/-0.6\text{mgon}$ expresada para un factor de cobertura $k=2$, aproximadamente equivalente a un nivel de confianza del 95%.

PROCEDIMIENTO UTILIZADO

Procedimiento interno de Fortop PI.01. El error del eje secundario se ha verificado en un colimador de 50 gon de inclinación. La distancia se ha verificado en una base de comprobación.

CONDICIONES AMBIENTALES

La Temperatura ambiental se ha mantenido en $21\text{ }^{\circ}\text{C} +/-2^{\circ}\text{C}$

MEDIDAS

| | ENTRADA (mgon) | SALIDA (mgon) | INCERTIDUMBRE (mgon) |
|-------------------------|----------------|---------------|----------------------|
| ERROR VERTICAL | 2.10 | 0.30 | 1.00 |
| ERROR DE COLIMACIÓN | 0.80 | 0.10 | 1.00 |
| ERROR DE EJE SECUNDARIO | 2.20 | 0.50 | 1.00 |

| | ENTRADA (m) | SALIDA (m) |
|--------------------|-------------|------------|
| ERROR DE DISTANCIA | 0,002 | 0,002 |

PROXIMA CALIBRACIÓN: Duración recomendada de un año



LOC maria castaña 5, bajo
POB lugo CP 27002
CIF B 15 63 27 14

Vº Bº Servicio Técnico