



## **BOLETÍN DE SISMOS**

julio de 2017

Red Sismológica Nacional de Colombia – RSNC –

**Volumen 25, No. 07**

**Bogotá, agosto de 2017**

República de Colombia  
SERVICIO GEOLÓGICO COLOMBIANO

**REPÚBLICA DE COLOMBIA  
SERVICIO GEOLÓGICO COLOMBIANO**



**Boletín de Sismos: julio de 2017**

**Red Sismológica Nacional de Colombia**

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## PRESENTACION

La Red Sismológica Nacional de Colombia - RSNC, adscrita al SERVICIO GEOLÓGICO, es la encargada de observar, monitorear, investigar y evaluar la actividad sísmica del país de manera continua y permanente, con el fin de conocer el fenómeno sísmico y la amenaza que éste representa. Así mismo, ante la ocurrencia de un evento destacado, brindar información oportuna al Sistema Nacional de Gestión del Riesgo de Desastres (SNGRD), a las diferentes entidades y a la comunidad en general.

El propósito del boletín mensual es presentar un resumen de los parámetros y localizaciones preliminares de los sismos registrados por la RSNC en el territorio colombiano durante el periodo respectivo. Información general de la Red Sismológica, así como la sismicidad general registrada desde junio de 1993, se puede consultar en nuestra página web <http://www.sgc.gov.co>.

Cordialmente,

M.Sc. Viviana Dionicio Lozano.

**Coordinadora.**

Grupo de evaluación y monitoreo de la actividad sísmica

**Director General del SERVICIO GEOLÓGICO COLOMBIANO**  
Dr. Oscar Paredes Zapata

**Directora técnica de Geoamenazas**  
Dra. Marta Lucia Calvache

### RED SISMOLÓGICA NACIONAL DE COLOMBIA

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## FUNCIONAMIENTO DE LAS ESTACIONES RSNC

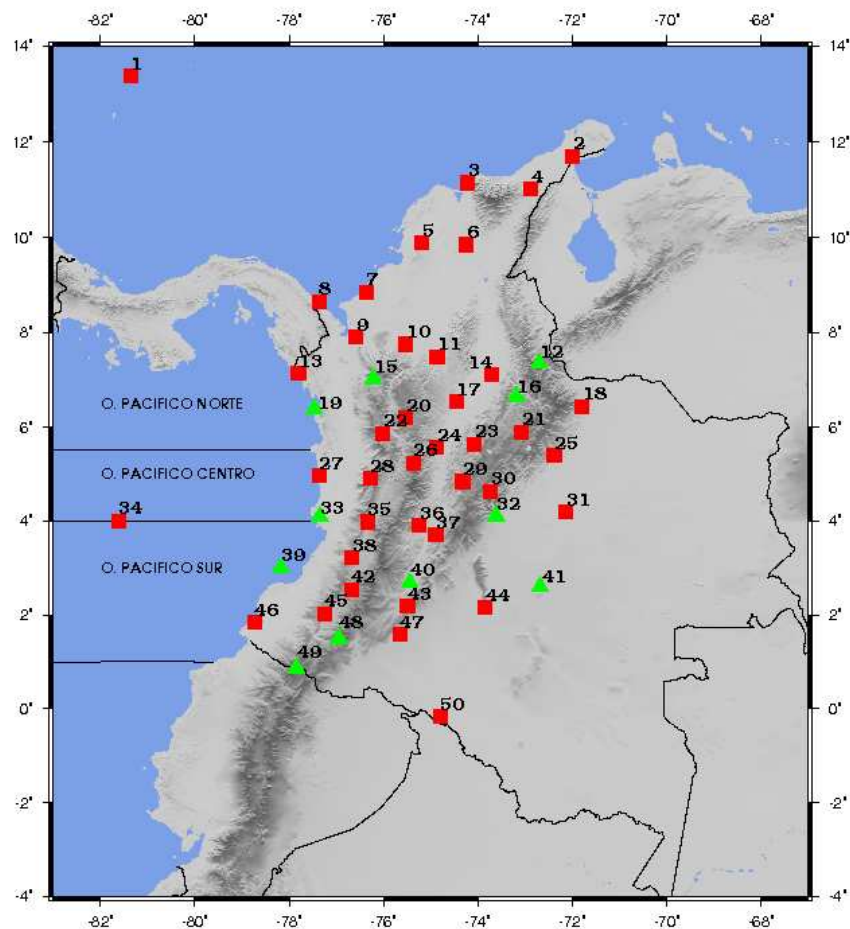
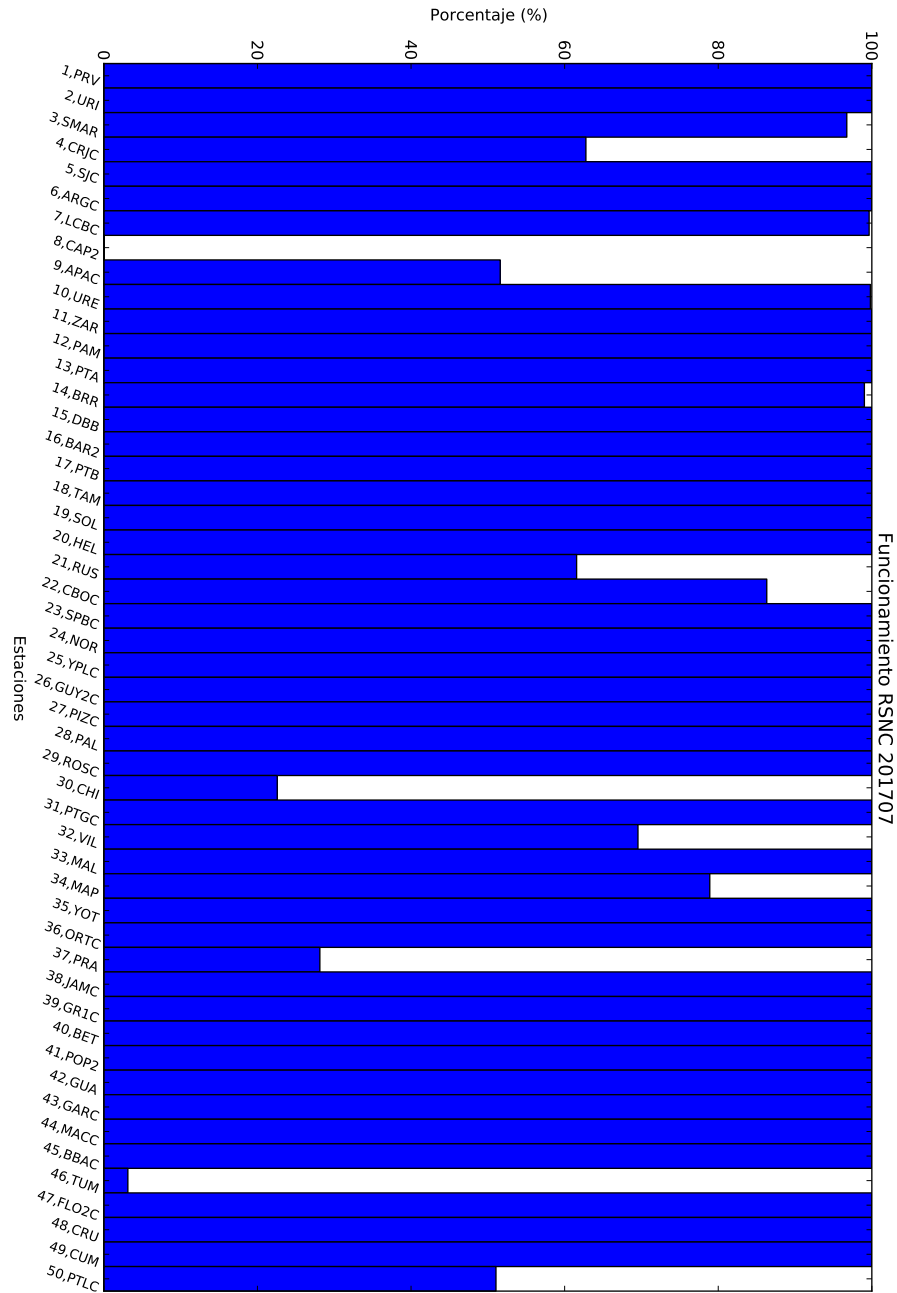


Figura 1: Localización de las estaciones de la RSNC. Los triángulos verdes y los cuadros rojos representan las estaciones con sensores de corto periodo y banda ancha respectivamente.

No.	Tipo de Sensor*	Nombre de la Estación	%
1	BB	PROVIDENCIA	100
2	BB	URIBIA	100
3	BB	SANTA MARTA	96,74
4	BB	CERREJON	62,77
5	BB	SAN JACINTO	100
6	BB	ARIGUANI	100
7	BB	LOS CORDOBAS	99,65
8	BB	CAPURGANÁ	0,00
9	BB	APARTADO	51,61
10	BB	SAN JOSE DE URE	99,81
11	BB	ZARAGOZA	100
12	SP	PAMPLONA	100
13	BB	PUNTA ARDITA	100
14	BB	BARRANCA	99,03
15	SP	DABEIBA	100
16	SP	BARICHARA	100
17	BB	PUERTO BERRIO	100
18	BB	TAME	100
19	SP	SOLANO	100
20	BB	ST.HELENA	100
21	BB	LA RUSIA	61,56
22	BB	CIUDAD BOLIVAR	86,32
23	BB	SAN PABLO DE BORBUR	100
24	SP	NORCASIA	100
25	SP	YOPAL	100
26	BB	GUYANA	100
27	BB	PIZARRO	100
28	BB	SAN JOSE DEL PALMAR	100
29	BB	EL ROSAL (CTBTO)	100
30	SP	CHINGAZA	22,58
31	BB	PUERTO GAITAN	100
32	SP	VILLAVICENCIO	69,55
33	SP	MALAGA	100
34	BB	MALPELO	78,9
35	BB	YOTOCO	100
36	BB	ORTEGA	100
37	BB	PRADO	28,13
38	BB	JAMUNDI	100
39	SP	GORGONA	100
40	SP	BETANIA	100
41	BB	POPAYAN	100
42	SP	GUAVIARE	100
43	BB	GARZON	100
44	BB	MACARENA	100
45	BB	BALBOA	100
46	BB	TUMACO	3,13
47	BB	FLORENCIA	100
48	SP	LA CRUZ	100
49	SP	CUMBAL	100
50	BB	PUERTO LEGUIZAMO	51,06

\* SP = Período corto  
BB = Banda ancha

## HISTOGRAMA DE FUNCIONAMIENTO DE LAS ESTACIONES



## SISMICIDAD DE JULIO DE 2017

Durante el mes de julio se registraron 3172 eventos, de los cuales: 3043 corresponden a eventos locales y de estos se localizaron 1362, 60 fueron Regionales y 69 Distantes. De los eventos localizados, 11 se determinaron como destacados, ver cuadro 1 y figura 2.

Un evento es denominado como destacado si:

1. El sismo tiene una profundidad menor a 120 km y su magnitud (ML) es mayor o igual a 4.0 en la escala de Richter o su magnitud de momento (Mw) es mayor o igual 4.0.
2. El sismo tiene una profundidad mayor o igual a 120 km y su magnitud (ML) es mayor o igual a 5.0 en la escala de Richter o su magnitud de momento (Mw) es mayor o igual 5.0.
3. El sismo es reportado como sentido cerca al epicentro, sin importar su magnitud o su profundidad.

### CONVENCIONES

<b>N</b>	Número del evento
<b>FECHA</b>	Mes Día Año.
<b>H _ M _ S</b>	Hora : Minuto : Segundo. Hora del evento en tiempo universal (UT). Para la hora local en el territorio Colombiano se restan 5 horas a la hora UT.
<b>LAT</b>	Latitud en grados.
<b>LONG</b>	Longitud en grados.
<b>Z</b>	Profundidad en kilómetros.
<b>Sup</b>	Indica una profundidad entre 0 y 5 km.
<b>MAG</b>	Magnitud (ML) del evento en la escala de Richter.
<b>Mw</b>	Magnitud de Momento (Mw) del evento, para los destacados.
<b>NF</b>	Número de fases utilizadas en la localización.
<b>RMS</b>	Raíz cuadrada media del residual de tiempo a las estaciones.
<b>GAP</b>	Mayor ángulo de apertura entre estaciones.
<b>UBICACIÓN</b>	Cabecera municipal y departamento más cercano al epicentro.

Cuadro 1: Eventos destacados durante julio de 2017

N	FECHA	H:M:S	LAT	LONG	Z	Mw	RMS	GAP	NF	UBICACION
71	Jul 2 2017	19:26:28.7	3.48	-74.13	Sup	4.8	1.5	52	114	LEJANIAS (META)*
338	Jul 8 2017	22:23:35.2	6.83	-73.11	156	4.3	0.9	67	95	LOS SANTOS (SANTANDER)*
349	Jul 9 2017	05:56:31.2	6.83	-73.16	151	4.1	0.5	64	80	LOS SANTOS (SANTANDER)*
494	Jul 12 2017	15:31:59.2	7.79	-72.34	Sup	3.3	0.6	153	47	FRONTERA CON VENEZUELA*
594	Jul 14 2017	20:12:46.1	0.77	-77.90	7	3.4	1.9	114	56	VOLCAN CHILES*
745	Jul 17 2017	15:15:46.2	2.23	-75.68	Sup	3.8	0.5	72	74	GARZON (HUILA)*
1025	Jul 24 2017	13:25: 2.7	6.82	-73.12	156	4.8	0.7	67	95	LOS SANTOS (SANTANDER)*
1240	Jul 29 2017	05:46:12.3	1.25	-76.94	Sup	2.6	0.7	93	42	SIBUNDOY (PUTUMAYO)*
1244	Jul 29 2017	06:14:30.9	1.24	-76.94	Sup	2.4	0.7	93	42	SIBUNDOY (PUTUMAYO)*
1278	Jul 30 2017	05:40:40.3	4.83	-75.33	Sup	4.7	0.1	117	98	VOLCAN PARAMILLO DEL CISNE*
1279	Jul 30 2017	05:57: 5.7	4.83	-75.34	Sup	4.6	0.1	118	91	VOLCAN PARAMILLO DEL CISNE*

\*Eventos Sísmicos reportados como sentidos

## RED SISMOLOGICA NACIONAL DE COLOMBIA

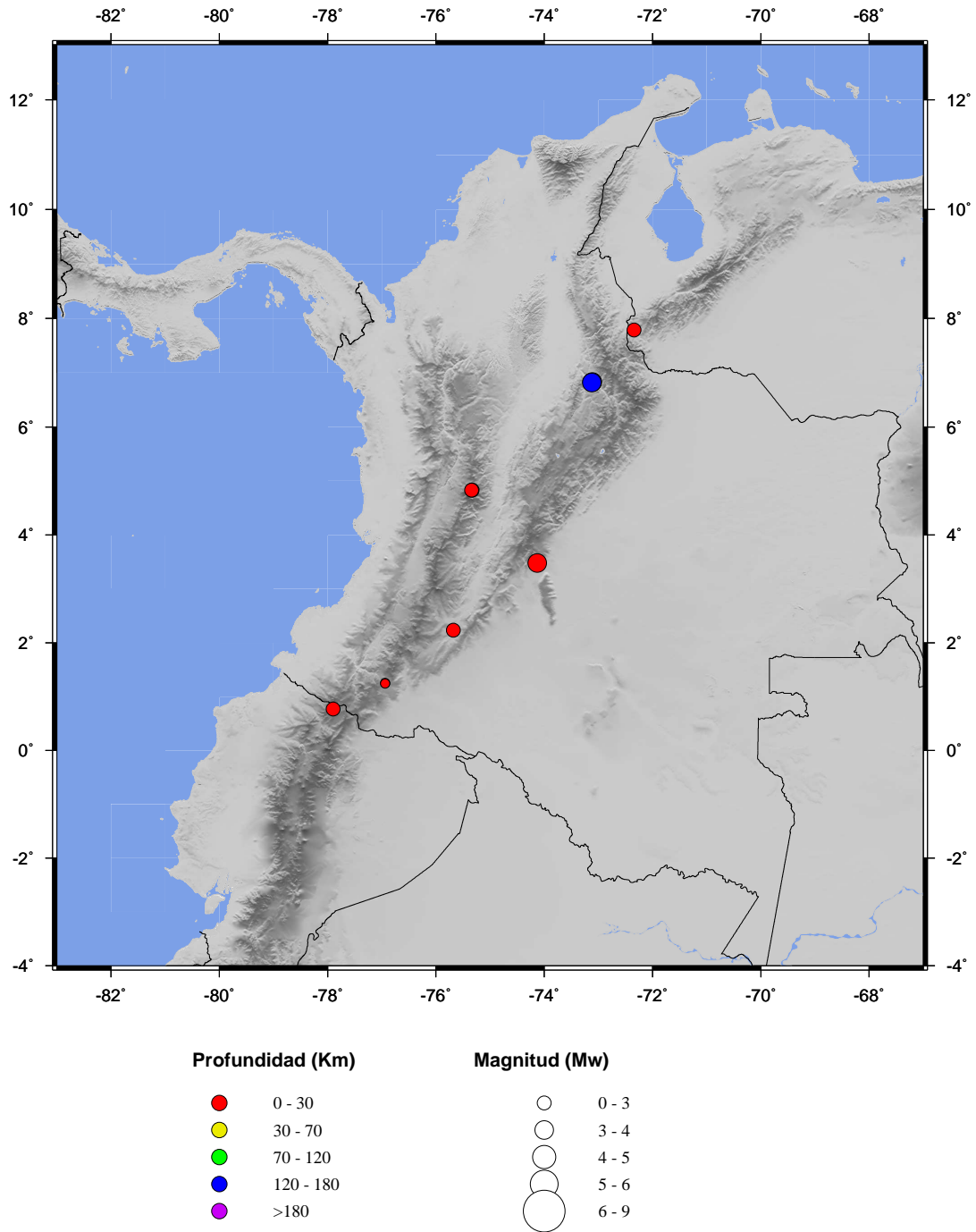


Figura 2: Sismos destacados localizados por la RSNC, durante julio de 2017.

## RED SISMOLOGICA NACIONAL DE COLOMBIA

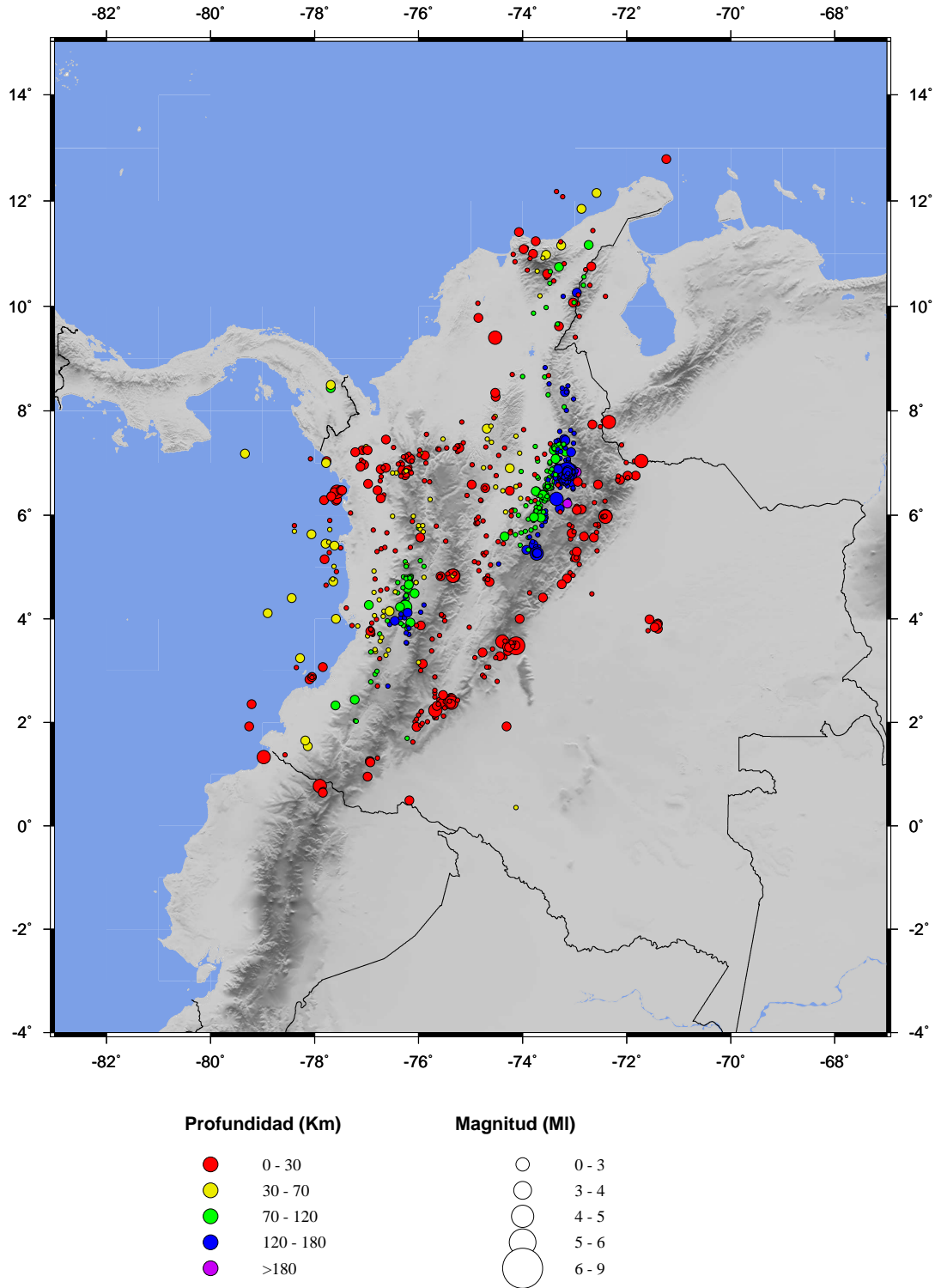


Figura 3: Sismicidad registrada por la RSNC durante julio de 2017



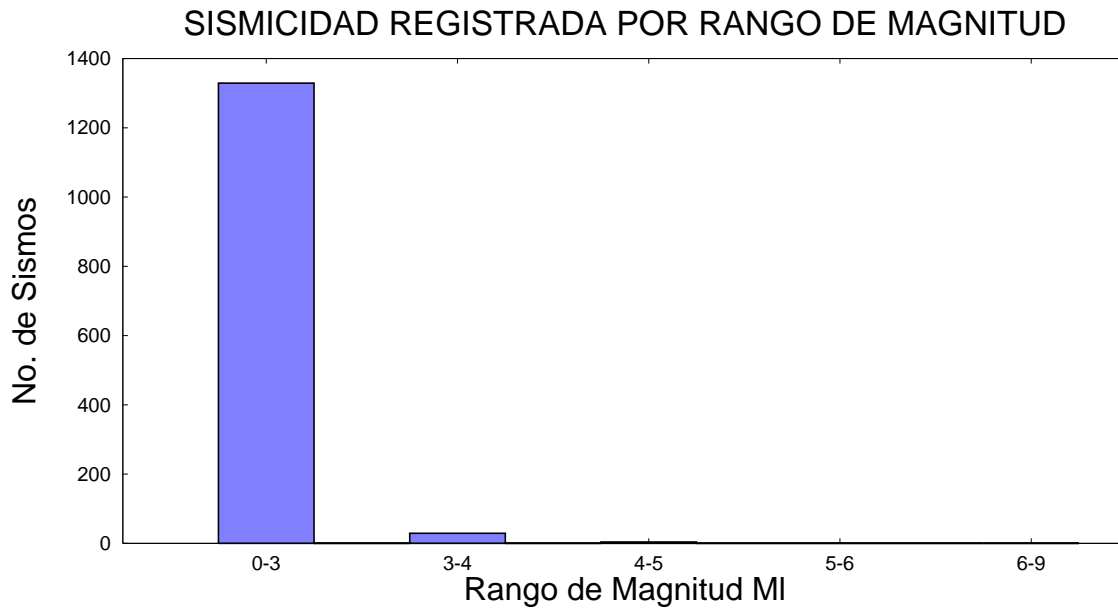


Figura 4: Número de sismos registrados por rango de magnitud, julio de 2017

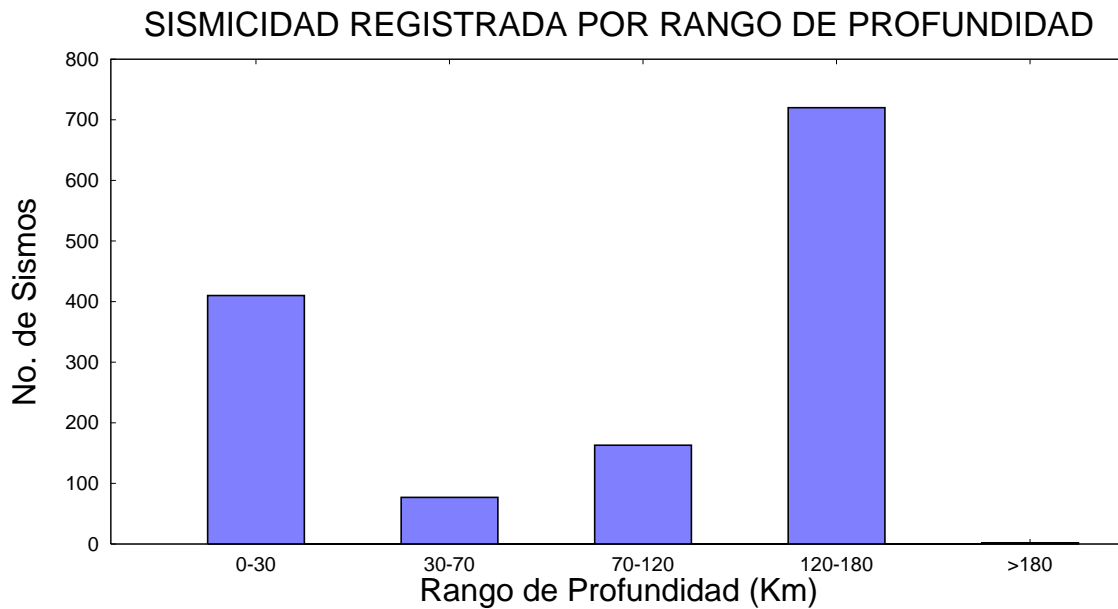


Figura 5: Número de sismos registrados por rango de profundidad, julio de 2017

## EVENTOS LOCALIZADOS DURANTE JULIO DE 2017

Cuadro 2: Listado de eventos localizados durante julio de 2017

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
1	Jul 1 2017	00:47:24.4	11.44	-72.65	Sup	1.9	0.3	190	10	MANAURE BALCON CESAR (CESAR)
2	Jul 1 2017	01:40:57.5	3.87	-77.28	15	1.3	0.4	204	8	BUENAVENTURA (VALLE)
3	Jul 1 2017	01:48:11.8	8.44	-77.69	88	2.4	0.8	131	29	FRONTERA CON PANAMA
4	Jul 1 2017	02:50:51.9	2.49	-75.42	9	1.6	0.4	95	18	HOBO (HUILA)
5	Jul 1 2017	03:30:21.6	7.18	-79.34	32	2.3	0.5	200	30	O. PACIFICO NORTE
6	Jul 1 2017	03:53:42.0	6.80	-73.14	141	2.9	0.5	66	68	LOS SANTOS (SANTANDER)
7	Jul 1 2017	06:20:30.6	6.80	-73.11	143	2.1	0.6	68	35	LOS SANTOS (SANTANDER)
8	Jul 1 2017	06:30:23.0	4.72	-77.64	47	2.0	0.5	254	14	O. PACIFICO CENTRO
9	Jul 1 2017	06:33:59.3	3.81	-71.40	Sup	2.8	0.2	256	32	PUERTO GAITAN (META)
10	Jul 1 2017	06:45: 7.9	3.26	-74.34	Sup	1.2	0.4	132	8	URIBE (META)
11	Jul 1 2017	07:15:22.9	6.50	-77.46	Sup	1.9	0.8	164	12	O. PACIFICO NORTE
12	Jul 1 2017	07:18:56.5	6.33	-77.73	18	1.8	0.4	247	8	O. PACIFICO NORTE
13	Jul 1 2017	08:49:24.7	6.66	-73.17	148	1.2	0.4	239	8	VILLANUEVA (SANTANDER)
14	Jul 1 2017	09:18:14.9	6.75	-73.14	139	1.8	0.5	96	17	LOS SANTOS (SANTANDER)
15	Jul 1 2017	09:30:57.3	6.77	-73.12	148	1.6	0.4	258	8	LOS SANTOS (SANTANDER)
16	Jul 1 2017	09:36:55.4	6.59	-72.55	Sup	2.3	0.7	112	34	CHISCAS (BOYACA)
17	Jul 1 2017	10:08:58.1	4.05	-75.52	Sup	1.6	0.5	53	28	RONCESVALLES (TOLIMA)
18	Jul 1 2017	10:26:37.1	6.84	-73.15	147	1.8	0.5	217	20	LOS SANTOS (SANTANDER)
19	Jul 1 2017	11:13:20.2	6.79	-73.12	146	1.6	0.4	157	11	LOS SANTOS (SANTANDER)
20	Jul 1 2017	11:50:53.0	7.40	-74.60	40	1.6	0.3	189	11	EL BAGRE (ANTIOQUIA)
21	Jul 1 2017	11:59:56.2	2.42	-75.61	17	1.2	0.3	138	9	GIGANTE (HUILA)
22	Jul 1 2017	12:11:54.1	6.75	-73.32	123	2.0	0.4	186	12	ZAPATOCA (SANTANDER)
23	Jul 1 2017	13:13:22.2	4.05	-76.68	61	1.7	0.3	200	16	CALIMA (VALLE)
24	Jul 1 2017	16:02:48.9	9.78	-74.85	Sup	2.0	0.5	128	12	ZAMBRANO (BOLIVAR)
25	Jul 1 2017	17:35: 0.4	7.08	-76.17	Sup	2.6	0.6	67	34	DABEIBA (ANTIOQUIA)
26	Jul 1 2017	18:24:50.4	6.82	-73.11	144	2.3	0.5	68	34	LOS SANTOS (SANTANDER)
27	Jul 1 2017	18:37: 4.5	7.06	-76.14	Sup	1.6	0.5	100	11	DABEIBA (ANTIOQUIA)
28	Jul 1 2017	18:55:55.2	7.74	-72.66	Sup	2.9	0.8	163	33	DURANIA (N.SANTANDER)
29	Jul 1 2017	19:42:22.7	6.80	-73.10	152	2.4	0.6	69	32	LOS SANTOS (SANTANDER)
30	Jul 1 2017	20:33:44.3	8.27	-74.52	Sup	2.8	0.7	77	46	MONTECRISTO (BOLIVAR)
31	Jul 1 2017	20:36:43.2	6.79	-73.13	148	1.8	0.5	155	13	LOS SANTOS (SANTANDER)
32	Jul 1 2017	21:10:43.7	4.59	-76.21	118	2.0	0.4	105	18	VERSALLES (VALLE)
33	Jul 1 2017	23:07: 6.3	7.81	-72.45	17	1.5	0.8	277	8	VILLA DEL ROSARIO (N.SANTANDER)
34	Jul 1 2017	23:44:26.6	6.72	-73.11	93	1.5	0.3	163	14	JORDAN (SANTANDER)
35	Jul 2 2017	00:56:12.9	4.29	-76.26	132	2.3	0.6	57	52	BOLIVAR (VALLE)
36	Jul 2 2017	01:41:51.1	7.12	-76.21	Sup	1.9	0.5	153	21	DABEIBA (ANTIOQUIA)
37	Jul 2 2017	01:48:11.3	3.37	-76.83	66	1.1	0.5	152	8	JAMUNDI (VALLE)
38	Jul 2 2017	02:51: 7.0	6.81	-73.14	145	2.5	0.6	66	48	LOS SANTOS (SANTANDER)
39	Jul 2 2017	02:58:12.8	2.91	-74.77	6	1.8	0.7	155	15	BARAYA (HUILA)
40	Jul 2 2017	04:16:29.3	6.77	-73.13	143	1.8	0.3	164	19	LOS SANTOS (SANTANDER)
41	Jul 2 2017	05:15:38.5	7.11	-76.27	Sup	1.2	0.5	171	12	DABEIBA (ANTIOQUIA)
42	Jul 2 2017	05:19:44.4	4.70	-76.40	82	1.7	0.6	145	29	EL CAIRO (VALLE)
43	Jul 2 2017	05:25:45.1	5.26	-73.75	147	2.0	0.8	61	34	CUCUNUBA (CUNDINAMARCA)
44	Jul 2 2017	05:29:35.9	6.75	-73.13	150	1.3	0.3	254	8	LOS SANTOS (SANTANDER)
45	Jul 2 2017	05:40:56.4	5.01	-75.90	115	1.0	0.5	134	8	VITERBO (CALDAS)
46	Jul 2 2017	05:43:51.6	3.38	-74.28	Sup	2.0	0.8	57	31	URIBE (META)
47	Jul 2 2017	05:51:15.2	6.68	-73.16	148	1.3	0.4	245	7	VILLANUEVA (SANTANDER)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
48	Jul 2 2017	06:26:12.5	2.88	-74.74	Sup	1.8	0.6	88	26	BARAYA (HUILA)
49	Jul 2 2017	06:43:54.8	3.00	-75.96	Sup	1.6	0.5	73	30	TORIBIO (CAUCA)
50	Jul 2 2017	06:48:53.8	6.06	-73.71	117	2.2	0.5	45	39	VELEZ (SANTANDER)
51	Jul 2 2017	07:41:32.5	6.18	-73.94	96	1.0	0.2	132	7	CIMITARRA (SANTANDER)
52	Jul 2 2017	07:48:46.3	6.62	-73.17	144	1.1	0.1	234	8	BARICHARA (SANTANDER)
53	Jul 2 2017	07:52:25.6	5.54	-73.08	Sup	1.1	0.1	150	10	PESCA (BOYACA)
54	Jul 2 2017	08:08:56.9	10.98	-73.55	31	2.0	0.5	140	16	PUEBLO BELLO (CESAR)
55	Jul 2 2017	08:20: 8.7	6.65	-73.39	116	1.4	0.4	158	8	GALAN (SANTANDER)
56	Jul 2 2017	08:47:28.3	6.64	-73.18	142	1.4	0.2	227	8	VILLANUEVA (SANTANDER)
57	Jul 2 2017	09:16:41.8	5.26	-73.73	144	2.3	0.5	54	42	CUCUNUBA (CUNDINAMARCA)
58	Jul 2 2017	09:50:10.3	6.69	-73.13	154	1.4	0.3	212	11	VILLANUEVA (SANTANDER)
59	Jul 2 2017	10:09:40.0	6.63	-73.31	136	2.1	0.5	138	21	GALAN (SANTANDER)
60	Jul 2 2017	10:51:17.5	6.77	-76.26	Sup	2.0	0.5	194	16	FRONTINO (ANTIOQUIA)
61	Jul 2 2017	11:07:44.3	6.68	-73.11	142	1.5	0.4	184	9	JORDAN (SANTANDER)
62	Jul 2 2017	12:03: 8.9	6.70	-73.11	154	1.3	0.4	176	9	JORDAN (SANTANDER)
63	Jul 2 2017	14:10:38.8	2.01	-76.07	Sup	1.8	0.3	148	14	SALADOBLANCO (HUILA)
64	Jul 2 2017	15:05:42.2	7.22	-73.18	108	2.0	0.3	237	14	RIONEGRO (SANTANDER)
65	Jul 2 2017	15:55:39.4	4.13	-76.18	141	1.9	0.4	105	15	ANDALUCIA (VALLE)
66	Jul 2 2017	16:54: 3.5	2.42	-75.57	14	1.8	0.4	78	15	GIGANTE (HUILA)
67	Jul 2 2017	17:00:30.8	2.33	-77.60	92	2.1	0.4	110	24	ARGELIA (CAUCA)
68	Jul 2 2017	18:18:46.3	5.98	-76.10	56	1.6	0.4	165	8	EL CARMEN (CHOCO)
69	Jul 2 2017	18:36: 3.1	6.76	-73.09	144	1.7	0.3	172	12	LOS SANTOS (SANTANDER)
70	Jul 2 2017	19:14:42.8	6.71	-73.12	142	1.5	0.4	173	10	JORDAN (SANTANDER)
71	<u>Jul 2 2017</u>	<u>19:26:28.7</u>	<u>3.48</u>	<u>-74.13</u>	<u>Sup</u>	<u>4.8</u>	<u>1.5</u>	<u>52</u>	<u>114</u>	<u>LEJANIAS (META)</u>
72	Jul 2 2017	19:35:14.0	3.49	-74.14	Sup	2.4	0.8	85	25	LEJANIAS (META)
73	Jul 2 2017	20:54:26.7	6.78	-73.17	142	2.3	0.5	64	28	LOS SANTOS (SANTANDER)
74	Jul 2 2017	21:38:48.8	6.79	-73.10	144	1.8	0.4	163	12	LOS SANTOS (SANTANDER)
75	Jul 2 2017	21:51:43.1	6.75	-73.18	148	1.2	0.1	138	7	LOS SANTOS (SANTANDER)
76	Jul 2 2017	22:12:12.3	6.39	-76.67	Sup	1.3	0.4	265	12	VIGIA DEL FUERTE (ANTIOQUIA)
77	Jul 2 2017	22:46:10.0	9.62	-73.30	Sup	2.0	0.6	171	14	LA JAGUA DE IBIRICO (CESAR)
78	Jul 2 2017	23:37:15.2	11.11	-73.93	22	1.0	0.3	175	10	PUEBLO BELLO (CESAR)
79	Jul 3 2017	00:07:20.9	6.24	-72.62	10	1.2	0.1	299	7	SUSACON (BOYACA)
80	Jul 3 2017	00:10:30.6	5.25	-73.68	144	1.8	0.5	63	25	LENGUAZAQUE (CUNDINAMARCA)
81	Jul 3 2017	00:32:48.2	6.06	-73.69	111	2.1	0.5	73	31	VELEZ (SANTANDER)
82	Jul 3 2017	00:38:25.3	6.82	-73.15	138	1.6	0.3	145	11	LOS SANTOS (SANTANDER)
83	Jul 3 2017	00:49: 1.2	6.78	-73.11	147	1.4	0.2	162	9	LOS SANTOS (SANTANDER)
84	Jul 3 2017	01:26:10.3	6.75	-73.42	124	1.0	0.3	162	7	EL CARMEN (SANTANDER)
85	Jul 3 2017	01:29:28.3	6.84	-73.01	152	1.4	0.4	283	9	CEPITA (SANTANDER)
86	Jul 3 2017	01:35: 8.7	8.08	-73.20	119	1.3	0.2	226	9	ABREGO (N.SANTANDER)
87	Jul 3 2017	02:09:16.8	7.39	-75.14	Sup	1.2	0.4	118	7	CACERES (ANTIOQUIA)
88	Jul 3 2017	02:37:52.9	6.58	-74.06	Sup	1.2	0.4	135	11	PUERTO PARRA (SANTANDER)
89	Jul 3 2017	02:55:14.1	4.23	-76.19	130	1.5	0.4	93	16	BUGALAGRANDE (VALLE)
90	Jul 3 2017	02:58: 0.8	6.26	-73.84	84	1.3	0.4	137	12	LANDAZURI (SANTANDER)
91	Jul 3 2017	03:38:49.0	4.76	-76.18	101	1.2	0.3	131	10	EL CAIRO (VALLE)
92	Jul 3 2017	05:03:54.3	3.56	-74.39	Sup	3.0	0.8	54	69	URIBE (META)
93	Jul 3 2017	05:30:53.9	6.95	-76.24	15	0.8	0.5	223	6	DABEIBA (ANTIOQUIA)
94	Jul 3 2017	06:17:16.9	5.28	-73.05	Sup	1.0	0.3	302	6	SAN EDUARDO (BOYACA)
95	Jul 3 2017	06:23:34.5	4.27	-75.90	156	1.5	0.5	93	15	SEVILLA (VALLE)
96	Jul 3 2017	06:26:38.3	6.71	-73.70	101	1.1	0.1	104	7	EL CARMEN (SANTANDER)
97	Jul 3 2017	07:40: 9.4	6.69	-73.10	144	1.1	0.2	272	7	JORDAN (SANTANDER)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
98	Jul 3 2017	07:43:11.0	6.80	-73.13	145	2.5	0.5	66	48	LOS SANTOS (SANTANDER)
99	Jul 3 2017	07:58:25.9	5.79	-72.54	Sup	1.4	0.4	108	17	PISVA (BOYACA)
100	Jul 3 2017	09:05: 6.0	3.07	-74.65	Sup	1.5	0.6	180	12	COLOMBIA (HUILA)
101	Jul 3 2017	09:09:56.0	6.81	-73.15	139	1.3	0.4	248	10	LOS SANTOS (SANTANDER)
102	Jul 3 2017	09:22:45.2	5.71	-73.84	117	1.5	0.5	181	17	SABOYA (BOYACA)
103	Jul 3 2017	09:54: 2.8	6.47	-74.25	Sup	2.4	0.5	84	36	PUERTO BERRIO (ANTIOQUIA)
104	Jul 3 2017	11:07:56.8	5.33	-73.93	167	2.1	0.3	189	10	CARMEN DE CARUPA (CUNDINAMARCA)
105	Jul 3 2017	11:48:16.4	6.84	-73.14	151	3.7	0.6	65	77	LOS SANTOS (SANTANDER)
106	Jul 3 2017	12:34:14.4	5.30	-73.76	144	1.7	0.4	90	14	UBATE (CUNDINAMARCA)
107	Jul 3 2017	13:24:26.2	0.95	-76.98	Sup	2.0	0.6	189	9	SANTIAGO (PUTUMAYO)
108	Jul 3 2017	13:28:27.7	6.80	-73.11	144	2.1	0.6	168	16	LOS SANTOS (SANTANDER)
109	Jul 3 2017	14:02:25.5	6.78	-73.13	154	1.8	0.4	254	10	LOS SANTOS (SANTANDER)
110	Jul 3 2017	14:51:38.9	6.38	-75.07	20	1.1	0.7	95	9	ALEJANDRIA (ANTIOQUIA)
111	Jul 3 2017	15:22:53.0	10.92	-73.61	54	1.7	0.1	150	8	PUEBLO BELLO (CESAR)
112	Jul 3 2017	16:39:28.7	7.15	-75.88	Sup	2.2	0.5	73	20	ITUANGO (ANTIOQUIA)
113	Jul 3 2017	17:11:35.2	2.10	-75.64	Sup	0.4	0.7	118	11	GARZON (HUILA)
114	Jul 3 2017	17:21:30.3	6.81	-73.14	148	1.9	0.3	111	14	LOS SANTOS (SANTANDER)
115	Jul 3 2017	17:47: 6.3	1.89	-76.04	21	1.0	0.1	165	7	PITALITO (HUILA)
116	Jul 3 2017	18:19:31.9	6.73	-73.11	145	1.7	0.3	171	16	JORDAN (SANTANDER)
117	Jul 3 2017	21:07:21.7	3.48	-74.20	Sup	1.6	0.6	94	17	MESETAS (META)
118	Jul 4 2017	00:16:37.9	4.70	-76.05	122	1.6	0.4	81	14	ARGELIA (VALLE)
119	Jul 4 2017	00:20:21.4	6.76	-73.13	141	1.8	0.4	96	21	LOS SANTOS (SANTANDER)
120	Jul 4 2017	00:52:53.9	6.78	-73.12	147	1.2	0.2	158	11	LOS SANTOS (SANTANDER)
121	Jul 4 2017	01:22:11.8	6.84	-73.15	151	2.2	0.5	64	44	LOS SANTOS (SANTANDER)
122	Jul 4 2017	01:53:35.5	1.87	-76.00	Sup	0.9	0.3	163	8	PITALITO (HUILA)
123	Jul 4 2017	02:08:25.0	6.68	-73.21	148	1.2	0.3	208	7	VILLANUEVA (SANTANDER)
124	Jul 4 2017	02:23:44.2	6.92	-74.63	9	1.2	0.2	135	11	REMEDIOS (ANTIOQUIA)
125	Jul 4 2017	02:43:57.0	6.88	-73.34	120	1.3	0.4	211	9	BETULIA (SANTANDER)
126	Jul 4 2017	03:25:10.5	5.62	-73.71	132	1.7	0.4	118	26	TINJACA (BOYACA)
127	Jul 4 2017	03:51:12.0	6.80	-73.16	145	1.8	0.4	144	23	LOS SANTOS (SANTANDER)
128	Jul 4 2017	05:37:15.9	6.35	-74.30	16	0.9	0.3	224	8	PUERTO BERRIO (ANTIOQUIA)
129	Jul 4 2017	06:06:26.6	6.94	-74.27	69	1.3	0.3	121	10	YONDO (ANTIOQUIA)
130	Jul 4 2017	06:17: 5.7	7.00	-75.86	Sup	1.2	0.5	151	13	PEQUE (ANTIOQUIA)
131	Jul 4 2017	06:31:49.0	6.73	-73.17	151	1.5	0.3	236	13	VILLANUEVA (SANTANDER)
132	Jul 4 2017	06:54:37.1	6.73	-73.14	144	1.3	0.6	229	11	LOS SANTOS (SANTANDER)
133	Jul 4 2017	06:55:11.7	6.77	-73.14	148	1.4	0.4	251	10	LOS SANTOS (SANTANDER)
134	Jul 4 2017	07:29:58.8	12.79	-71.24	8	2.4	0.4	314	21	MAR CARIBE
135	Jul 4 2017	08:15:35.1	6.74	-73.13	147	1.3	0.2	255	10	LOS SANTOS (SANTANDER)
136	Jul 4 2017	08:23:23.6	6.71	-73.17	150	1.5	0.6	211	12	VILLANUEVA (SANTANDER)
137	Jul 4 2017	08:26:39.0	6.95	-76.20	Sup	0.6	0.2	189	7	URAMITA (ANTIOQUIA)
138	Jul 4 2017	08:30:21.7	6.79	-73.15	144	1.6	0.5	111	22	LOS SANTOS (SANTANDER)
139	Jul 4 2017	08:34:24.3	11.41	-74.07	Sup	2.1	0.7	226	16	MAR CARIBE
140	Jul 4 2017	09:55:59.9	6.82	-73.13	161	1.1	0.2	255	7	LOS SANTOS (SANTANDER)
141	Jul 4 2017	10:25:25.7	6.80	-73.17	145	2.3	0.4	102	32	LOS SANTOS (SANTANDER)
142	Jul 4 2017	11:57:16.1	6.80	-73.13	139	2.4	0.5	101	30	LOS SANTOS (SANTANDER)
143	Jul 4 2017	13:18:25.6	7.25	-73.40	109	2.1	0.5	164	22	SABANA DE TORRES (SANTANDER)
144	Jul 4 2017	13:45:54.5	6.29	-73.12	147	1.6	0.5	292	8	CHARALA (SANTANDER)
145	Jul 4 2017	14:59:23.0	6.79	-73.12	146	1.8	0.5	214	12	LOS SANTOS (SANTANDER)
146	Jul 4 2017	18:10: 0.1	6.67	-73.20	140	1.7	0.5	197	8	VILLANUEVA (SANTANDER)
147	Jul 4 2017	18:47:20.5	4.90	-75.40	Sup	1.4	0.2	191	11	VILLAMARIA (CALDAS)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
148	Jul 4 2017	19:27:21.5	3.71	-76.75	101	1.3	0.5	127	10	DAGUA (VALLE)
149	Jul 4 2017	19:47: 3.2	7.19	-75.96	30	1.7	0.5	85	12	PEQUE (ANTIOQUIA)
150	Jul 4 2017	20:28:49.4	5.66	-74.03	114	1.8	0.3	205	16	SAN PABLO DE BORBUR (BOYACA)
151	Jul 4 2017	21:44:54.0	6.85	-73.12	145	2.7	0.6	74	39	LOS SANTOS (SANTANDER)
152	Jul 4 2017	23:06:10.1	7.25	-77.08	18	2.0	0.5	137	14	RIOSUCIO (CHOCO)
153	Jul 4 2017	23:25:47.7	6.66	-76.74	7	1.5	0.5	157	14	VIGIA DEL FUERTE (ANTIOQUIA)
154	Jul 5 2017	00:05:34.7	6.68	-72.13	Sup	2.0	0.6	167	16	CUBARA (BOYACA)
155	Jul 5 2017	00:36:16.6	7.16	-74.96	32	0.9	0.4	123	7	ANORI (ANTIOQUIA)
156	Jul 5 2017	00:49: 6.6	1.37	-78.57	14	1.9	0.6	151	21	ROBERTO PAYAN (NARINO)
157	Jul 5 2017	01:12:33.4	6.85	-73.32	125	2.1	0.3	61	37	BETULIA (SANTANDER)
158	Jul 5 2017	01:31:29.7	6.71	-73.18	146	1.2	0.3	202	7	VILLANUEVA (SANTANDER)
159	Jul 5 2017	01:56:35.9	6.91	-73.17	142	1.9	0.5	133	17	BETULIA (SANTANDER)
160	Jul 5 2017	02:03:44.5	4.15	-76.67	45	1.1	0.1	130	6	CALIMA (VALLE)
161	Jul 5 2017	02:34:24.2	4.77	-77.65	62	1.4	0.5	260	10	O. PACIFICO CENTRO
162	Jul 5 2017	02:51:58.2	7.90	-74.53	45	1.3	0.2	233	7	NECHI (ANTIOQUIA)
163	Jul 5 2017	03:03:56.2	3.99	-76.81	26	1.4	0.6	119	10	BUENAVENTURA (VALLE)
164	Jul 5 2017	03:39:30.7	10.19	-73.22	126	1.5	0.5	146	12	SAN DIEGO (CESAR)
165	Jul 5 2017	03:53:47.7	6.80	-73.14	149	2.2	0.5	66	38	LOS SANTOS (SANTANDER)
166	Jul 5 2017	04:21:23.3	7.07	-76.13	Sup	0.9	0.5	102	9	DABEIBA (ANTIOQUIA)
167	Jul 5 2017	04:56:50.2	4.89	-73.09	Sup	1.8	0.5	92	13	SABANALARGA (CASANARE)
168	Jul 5 2017	05:10:32.3	4.77	-74.73	20	1.2	0.5	130	11	AMBALEMA (TOLIMA)
169	Jul 5 2017	05:29:50.7	2.01	-75.83	Sup	1.4	0.5	122	11	SUAZA (HUILA)
170	Jul 5 2017	05:39:37.4	6.71	-73.14	147	1.5	0.3	162	10	JORDAN (SANTANDER)
171	Jul 5 2017	05:48: 9.6	6.83	-73.15	149	2.3	0.5	64	40	LOS SANTOS (SANTANDER)
172	Jul 5 2017	05:52:56.1	5.69	-74.23	Sup	1.1	0.4	141	13	OTANCHE (BOYACA)
173	Jul 5 2017	06:01: 7.0	2.47	-75.38	10	2.3	0.6	96	24	ALGECIRAS (HUILA)
174	Jul 5 2017	06:43:45.8	6.63	-73.05	168	2.3	0.5	72	43	CURITI (SANTANDER)
175	Jul 5 2017	06:52:31.4	5.82	-72.55	Sup	1.5	0.5	107	18	PISVA (BOYACA)
176	Jul 5 2017	07:03:35.8	6.82	-73.12	150	2.3	0.5	67	41	LOS SANTOS (SANTANDER)
177	Jul 5 2017	07:28: 8.8	6.81	-73.05	149	1.5	0.4	177	13	LOS SANTOS (SANTANDER)
178	Jul 5 2017	07:47:18.3	10.05	-72.94	Sup	1.8	0.5	145	17	FRONTERA CON VENEZUELA
179	Jul 5 2017	07:59:27.4	10.70	-72.79	Sup	1.1	0.3	168	8	MANAURE BALCON CESAR (CESAR)
180	Jul 5 2017	08:09:19.2	5.45	-77.79	45	2.3	0.2	248	10	O. PACIFICO CENTRO
181	Jul 5 2017	08:25:23.5	7.40	-72.26	Sup	0.8	0.2	327	8	FRONTERA CON VENEZUELA
182	Jul 5 2017	08:32:57.6	11.00	-73.80	Sup	2.6	0.5	198	29	PUEBLO BELLO (CESAR)
183	Jul 5 2017	08:49:42.5	6.97	-74.97	Sup	1.5	0.5	109	14	AMALFI (ANTIOQUIA)
184	Jul 5 2017	09:33:18.8	4.84	-75.57	21	1.1	0.6	132	11	SANTA ROSA DE CABAL (RISARALDA)
185	Jul 5 2017	09:38:57.7	7.70	-72.51	Sup	1.4	0.4	245	12	LOS PATIOS (N.SANTANDER)
186	Jul 5 2017	09:58: 1.7	4.85	-75.55	21	1.1	0.5	113	11	SANTA ROSA DE CABAL (RISARALDA)
187	Jul 5 2017	10:22:41.5	5.66	-74.24	6	1.3	0.2	153	14	OTANCHE (BOYACA)
188	Jul 5 2017	10:43:45.1	4.82	-75.58	Sup	2.2	0.5	98	29	SANTA ROSA DE CABAL (RISARALDA)
189	Jul 5 2017	11:02:46.7	6.88	-76.73	18	2.8	0.6	85	39	MURINDO (ANTIOQUIA)
190	Jul 5 2017	11:32: 1.8	2.78	-76.92	113	1.5	0.4	183	12	SUAREZ (CAUCA)
191	Jul 5 2017	12:10:18.7	6.78	-73.14	143	2.4	0.6	99	32	LOS SANTOS (SANTANDER)
192	Jul 5 2017	12:23: 3.7	6.76	-73.13	146	1.9	0.4	97	16	LOS SANTOS (SANTANDER)
193	Jul 5 2017	13:26:45.8	6.80	-73.15	146	2.4	0.5	102	33	LOS SANTOS (SANTANDER)
194	Jul 5 2017	13:34:17.2	2.48	-75.36	22	1.6	0.4	193	9	ALGECIRAS (HUILA)
195	Jul 5 2017	14:14: 8.1	6.84	-73.28	121	1.8	0.2	216	10	ZAPATOCA (SANTANDER)
196	Jul 5 2017	15:18:56.9	5.65	-73.06	Sup	2.0	0.6	89	19	FIRAVITOBIA (BOYACA)
197	Jul 5 2017	16:21:49.7	6.79	-73.13	143	2.3	0.4	113	20	LOS SANTOS (SANTANDER)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
198	Jul 5 2017	16:47:40.3	6.82	-73.12	155	3.6	0.6	67	79	LOS SANTOS (SANTANDER)
199	Jul 5 2017	18:50:15.5	6.72	-73.11	140	1.6	0.5	175	13	JORDAN (SANTANDER)
200	Jul 5 2017	19:58:44.0	6.52	-73.44	129	1.6	0.4	161	12	SIMACOTA (SANTANDER)
201	Jul 5 2017	20:24:34.8	6.92	-76.17	Sup	1.6	0.5	166	16	URAMITA (ANTIOQUIA)
202	Jul 5 2017	20:32:35.6	6.82	-73.13	141	2.4	0.6	112	32	LOS SANTOS (SANTANDER)
203	Jul 5 2017	20:35:35.9	6.79	-73.11	142	1.7	0.4	161	12	LOS SANTOS (SANTANDER)
204	Jul 5 2017	21:51: 9.5	6.87	-73.11	148	3.0	0.6	66	58	LOS SANTOS (SANTANDER)
205	Jul 5 2017	22:47:32.9	5.68	-73.01	Sup	1.2	0.3	151	8	FIRAVITOBÁ (BOYACA)
206	Jul 5 2017	23:21:48.5	2.44	-77.23	85	2.2	0.4	141	22	ARGELIA (CAUCA)
207	Jul 5 2017	23:36:29.9	5.30	-73.76	144	1.6	0.4	259	10	UBATE (CUNDINAMARCA)
208	Jul 6 2017	00:16:36.3	4.82	-75.59	6	1.1	0.3	115	16	SANTA ROSA DE CABAL (RISARALDA)
209	Jul 6 2017	00:30:35.9	5.48	-77.73	50	1.7	0.3	193	13	O. PACIFICO CENTRO
210	Jul 6 2017	00:40:37.4	3.53	-74.17	Sup	1.8	0.6	95	17	LEJANIAS (META)
211	Jul 6 2017	00:41: 2.9	6.13	-72.82	Sup	1.4	0.4	176	8	TUTAZA (BOYACA)
212	Jul 6 2017	01:26:37.0	1.91	-76.04	Sup	2.3	0.4	112	28	PITALITO (HUILA)
213	Jul 6 2017	01:51:40.6	4.41	-76.23	112	1.1	0.2	160	8	ROLDANILLO (VALLE)
214	Jul 6 2017	02:15:32.6	4.18	-76.23	108	1.7	0.6	110	12	RIOFRIO (VALLE)
215	Jul 6 2017	02:15:48.6	6.77	-73.17	150	1.4	0.3	241	9	LOS SANTOS (SANTANDER)
216	Jul 6 2017	02:53:14.7	6.52	-73.54	113	1.6	0.2	95	17	EL CARMEN (SANTANDER)
217	Jul 6 2017	04:09:29.6	2.38	-75.64	Sup	0.8	0.4	194	7	GIGANTE (HUILA)
218	Jul 6 2017	04:20:46.2	4.83	-75.58	Sup	1.1	0.5	115	15	SANTA ROSA DE CABAL (RISARALDA)
219	Jul 6 2017	04:30:15.8	4.81	-76.29	102	1.4	0.3	176	10	EL CAIRO (VALLE)
220	Jul 6 2017	04:38:44.8	6.53	-73.28	153	1.0	0.3	212	7	PALMAR (SANTANDER)
221	Jul 6 2017	04:54:11.3	6.67	-73.19	147	1.1	0.1	220	7	VILLANUEVA (SANTANDER)
222	Jul 6 2017	07:01:17.5	2.83	-78.10	Sup	2.1	0.5	145	31	O. PACIFICO SUR
223	Jul 6 2017	07:02:37.0	6.17	-72.96	Sup	1.7	0.4	170	12	ENCINO (SANTANDER)
224	Jul 6 2017	07:07:56.5	6.53	-73.75	87	0.7	0.3	187	6	SANTA HELENA DEL OPO (SANTANDER)
225	Jul 6 2017	07:15:58.8	6.73	-73.16	145	1.4	0.3	244	10	VILLANUEVA (SANTANDER)
226	Jul 6 2017	08:06:42.1	6.76	-73.10	144	1.4	0.4	265	12	LOS SANTOS (SANTANDER)
227	Jul 6 2017	08:15:32.4	6.72	-73.18	145	1.4	0.4	233	11	VILLANUEVA (SANTANDER)
228	Jul 6 2017	08:51:58.8	7.23	-77.03	52	1.5	0.2	232	13	RIOSUCIO (CHOCO)
229	Jul 6 2017	09:28:50.8	6.01	-73.56	128	1.6	0.4	179	20	GUEPSA (SANTANDER)
230	Jul 6 2017	09:48:10.4	3.92	-76.90	29	1.3	0.3	120	8	BUENAVENTURA (VALLE)
231	Jul 6 2017	10:28:24.7	6.84	-73.14	152	3.4	0.7	64	71	LOS SANTOS (SANTANDER)
232	Jul 6 2017	10:39: 0.9	6.79	-73.07	142	1.4	0.2	173	10	LOS SANTOS (SANTANDER)
233	Jul 6 2017	10:41:37.0	6.79	-73.08	149	1.6	0.4	170	11	LOS SANTOS (SANTANDER)
234	Jul 6 2017	10:54:47.8	6.72	-73.19	149	1.3	0.4	229	8	VILLANUEVA (SANTANDER)
235	Jul 6 2017	11:26:30.6	6.72	-73.11	141	1.7	0.3	170	11	JORDAN (SANTANDER)
236	Jul 6 2017	13:37:58.6	5.50	-75.48	13	1.1	0.4	133	9	PACORA (CALDAS)
237	Jul 6 2017	14:49:37.3	5.41	-77.62	30	2.0	0.5	266	16	O. PACIFICO CENTRO
238	Jul 6 2017	15:50:38.8	5.01	-77.63	30	1.8	0.3	294	8	O. PACIFICO CENTRO
239	Jul 6 2017	16:03:26.8	4.71	-74.64	Sup	2.2	0.5	183	12	PULI (CUNDINAMARCA)
240	Jul 6 2017	17:16:14.8	6.32	-76.73	11	2.0	0.6	145	15	BOJAYA (CHOCO)
241	Jul 6 2017	17:46:46.0	6.87	-76.31	Sup	2.2	0.8	117	20	DABEIBA (ANTIOQUIA)
242	Jul 6 2017	17:48:37.0	6.86	-76.21	Sup	2.2	0.8	172	18	URAMITA (ANTIOQUIA)
243	Jul 6 2017	18:45: 2.5	2.06	-76.04	Sup	1.4	0.4	131	10	SALADOBLANCO (HUILA)
244	Jul 6 2017	19:00:14.6	6.87	-73.12	146	2.3	0.8	111	35	LOS SANTOS (SANTANDER)
245	Jul 6 2017	19:02: 9.6	6.80	-73.17	138	2.0	0.5	109	25	LOS SANTOS (SANTANDER)
246	Jul 6 2017	19:38:21.2	6.44	-73.63	104	1.8	0.4	137	14	SANTA HELENA DEL OPO (SANTANDER)
247	Jul 6 2017	19:53:59.9	5.44	-73.76	154	1.7	0.3	132	12	SUSA (CUNDINAMARCA)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
248	Jul 6 2017	21:16: 8.3	6.76	-73.15	141	2.1	0.4	112	15	LOS SANTOS (SANTANDER)
249	Jul 6 2017	21:24:11.7	6.80	-73.17	142	2.2	0.4	109	21	LOS SANTOS (SANTANDER)
250	Jul 6 2017	21:30:29.7	7.45	-76.63	Sup	2.2	0.6	209	20	CHIGORODO (ANTIOQUIA)
251	Jul 6 2017	21:44: 4.4	5.75	-76.00	70	1.3	0.2	227	8	BETANIA (ANTIOQUIA)
252	Jul 6 2017	21:57: 6.9	6.75	-73.12	134	1.9	0.2	115	14	LOS SANTOS (SANTANDER)
253	Jul 6 2017	22:16:21.3	6.57	-73.45	117	1.9	0.4	76	20	EL CARMEN (SANTANDER)
254	Jul 6 2017	23:13:41.1	5.73	-75.97	60	1.7	0.4	143	15	BETANIA (ANTIOQUIA)
255	Jul 7 2017	00:08:43.8	5.24	-73.70	155	2.8	0.6	56	38	CUCUNUBA (CUNDINAMARCA)
256	Jul 7 2017	01:00:52.1	5.97	-73.66	127	1.4	0.6	117	14	VELEZ (SANTANDER)
257	Jul 7 2017	01:06:16.3	7.32	-73.76	93	1.4	0.5	170	9	PUERTO WILCHES (SANTANDER)
258	Jul 7 2017	01:31:23.5	6.77	-73.13	145	1.6	0.4	159	10	LOS SANTOS (SANTANDER)
259	Jul 7 2017	01:39:20.7	7.30	-73.36	116	2.4	0.4	165	30	SABANA DE TORRES (SANTANDER)
260	Jul 7 2017	01:49:31.7	4.84	-75.59	Sup	0.8	0.4	75	15	SANTA ROSA DE CABAL (RISARALDA)
261	Jul 7 2017	02:36:50.1	7.57	-73.01	158	1.7	0.4	219	10	CACHIRA (N.SANTANDER)
262	Jul 7 2017	02:38:10.7	6.80	-73.14	140	2.4	0.5	101	39	LOS SANTOS (SANTANDER)
263	Jul 7 2017	03:27:49.6	6.78	-73.16	139	1.9	0.5	111	16	LOS SANTOS (SANTANDER)
264	Jul 7 2017	03:29:42.7	7.22	-73.33	135	1.2	0.2	247	8	LEBRIJA (SANTANDER)
265	Jul 7 2017	04:23:46.7	6.81	-73.11	142	2.6	0.6	67	54	LOS SANTOS (SANTANDER)
266	Jul 7 2017	04:52:49.4	7.06	-73.17	146	1.9	0.6	230	13	GIRON (SANTANDER)
267	Jul 7 2017	06:18:40.0	6.72	-73.13	143	1.3	0.3	165	10	JORDAN (SANTANDER)
268	Jul 7 2017	06:22:33.7	6.80	-73.14	148	2.0	0.4	101	28	LOS SANTOS (SANTANDER)
269	Jul 7 2017	06:29:51.7	6.65	-73.16	150	1.4	0.2	249	8	VILLANUEVA (SANTANDER)
270	Jul 7 2017	07:03: 6.1	11.16	-73.26	51	2.4	0.3	157	17	LA PAZ (CESAR)
271	Jul 7 2017	07:05:19.9	8.35	-74.53	6	2.9	0.7	77	48	MONTECRISTO (BOLIVAR)
272	Jul 7 2017	07:14:39.2	6.67	-73.18	142	1.2	0.1	231	8	VILLANUEVA (SANTANDER)
273	Jul 7 2017	07:42:41.4	6.50	-73.03	134	1.5	0.2	128	12	MOGOTES (SANTANDER)
274	Jul 7 2017	07:48:52.0	6.80	-73.14	149	1.8	0.4	101	17	LOS SANTOS (SANTANDER)
275	Jul 7 2017	08:39:36.3	5.68	-75.91	52	1.5	0.3	127	16	ANDES (ANTIOQUIA)
276	Jul 7 2017	09:05:13.4	6.76	-73.15	149	1.5	0.5	246	9	LOS SANTOS (SANTANDER)
277	Jul 7 2017	10:09:16.7	4.50	-76.40	116	1.1	0.2	184	8	EL DOVIO (VALLE)
278	Jul 7 2017	10:31:13.8	2.32	-75.65	12	1.2	0.0	117	7	GIGANTE (HUILA)
279	Jul 7 2017	11:18:39.7	6.84	-73.13	150	1.9	0.5	186	19	LOS SANTOS (SANTANDER)
280	Jul 7 2017	12:42:14.5	2.49	-75.69	12	1.2	0.2	200	8	TESALIA (HUILA)
281	Jul 7 2017	13:21:38.3	3.87	-76.29	117	1.4	0.3	126	10	BUGA (VALLE)
282	Jul 7 2017	14:19:34.7	6.67	-72.17	Sup	1.8	0.5	160	9	GUICAN (BOYACA)
283	Jul 7 2017	14:32:56.6	6.97	-77.05	6	2.2	0.5	147	14	MURINDO (ANTIOQUIA)
284	Jul 7 2017	16:36:13.0	0.49	-76.18	Sup	2.5	0.4	242	22	PUERTO ASIS (PUTUMAYO)
285	Jul 7 2017	17:16: 0.7	4.75	-76.16	119	1.8	0.3	128	10	ARGELIA (VALLE)
286	Jul 7 2017	17:46:46.0	6.70	-73.12	143	1.5	0.3	173	10	JORDAN (SANTANDER)
287	Jul 7 2017	17:56:54.3	4.76	-76.16	116	1.3	0.3	127	11	ARGELIA (VALLE)
288	Jul 7 2017	18:09:25.1	6.73	-73.11	135	1.7	0.4	173	13	JORDAN (SANTANDER)
289	Jul 7 2017	20:19:42.6	6.73	-73.10	140	1.9	0.4	175	16	JORDAN (SANTANDER)
290	Jul 7 2017	20:19:59.8	2.44	-75.61	Sup	1.4	0.4	120	12	GIGANTE (HUILA)
291	Jul 7 2017	20:27:51.1	7.30	-76.48	Sup	1.3	0.5	190	10	MUTATA (ANTIOQUIA)
292	Jul 7 2017	20:29:51.0	4.65	-77.78	26	1.8	0.5	269	10	O. PACIFICO CENTRO
293	Jul 7 2017	21:18:51.0	10.26	-72.96	127	2.2	0.5	141	16	MANAURE BALCON CESAR (CESAR)
294	Jul 7 2017	21:34:51.7	6.79	-73.17	148	1.8	0.4	242	12	LOS SANTOS (SANTANDER)
295	Jul 7 2017	21:40:45.7	7.30	-73.32	111	2.3	0.5	122	24	RIONEGRO (SANTANDER)
296	Jul 7 2017	22:25:36.9	3.53	-76.23	137	1.8	0.5	88	18	PALMIRA (VALLE)
297	Jul 7 2017	23:22:27.4	6.80	-73.14	141	2.5	0.5	112	40	LOS SANTOS (SANTANDER)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
298	Jul 8 2017	02:10:47.4	6.73	-73.15	146	1.7	0.5	206	20	LOS SANTOS (SANTANDER)
299	Jul 8 2017	03:09:45.7	6.76	-73.19	144	1.2	0.3	206	9	LOS SANTOS (SANTANDER)
300	Jul 8 2017	03:23:57.0	6.71	-73.17	149	1.0	0.1	240	6	VILLANUEVA (SANTANDER)
301	Jul 8 2017	03:42:55.2	6.61	-73.17	133	1.3	0.2	243	6	BARICHARA (SANTANDER)
302	Jul 8 2017	04:03:56.4	6.81	-73.20	140	1.4	0.4	210	15	ZAPATOCA (SANTANDER)
303	Jul 8 2017	04:06:50.3	6.13	-73.67	114	1.5	0.3	99	15	CHIPATA (SANTANDER)
304	Jul 8 2017	04:09:21.8	6.83	-73.11	148	1.9	0.5	186	24	LOS SANTOS (SANTANDER)
305	Jul 8 2017	04:30:50.7	9.66	-73.33	116	1.8	0.5	136	19	BECERRIL (CESAR)
306	Jul 8 2017	04:42:41.0	6.12	-73.29	170	2.3	0.5	65	42	OIBA (SANTANDER)
307	Jul 8 2017	05:07:56.0	6.41	-73.54	117	1.5	0.2	126	14	SANTA HELENA DEL OPO (SANTANDER)
308	Jul 8 2017	05:22:48.5	6.95	-73.34	128	1.2	0.4	223	8	BETULIA (SANTANDER)
309	Jul 8 2017	06:06: 2.5	4.63	-73.26	Sup	1.9	0.7	62	25	MEDINA (CUNDINAMARCA)
310	Jul 8 2017	06:30:41.3	4.80	-75.90	38	1.5	0.4	90	18	CARTAGO (VALLE)
311	Jul 8 2017	06:32:48.4	7.37	-73.47	Sup	1.1	0.5	178	9	SABANA DE TORRES (SANTANDER)
312	Jul 8 2017	07:10:23.6	5.74	-74.15	106	0.8	0.3	201	9	OTANCHE (BOYACA)
313	Jul 8 2017	07:14:34.4	6.76	-73.14	147	1.6	0.4	113	20	LOS SANTOS (SANTANDER)
314	Jul 8 2017	07:38:34.8	2.70	-76.59	124	1.1	0.2	196	8	MORALES (CAUCA)
315	Jul 8 2017	07:44: 1.5	6.76	-73.16	143	1.5	0.4	243	12	LOS SANTOS (SANTANDER)
316	Jul 8 2017	07:45:53.0	7.55	-75.85	Sup	1.1	0.4	158	7	PUERTO LIBERTADOR (CORDOBA)
317	Jul 8 2017	08:42: 6.1	6.73	-73.12	150	1.7	0.3	209	19	JORDAN (SANTANDER)
318	Jul 8 2017	08:48:13.9	2.47	-75.38	Sup	2.1	0.4	96	33	ALGECIRAS (HUILA)
319	Jul 8 2017	08:52: 8.1	6.63	-73.18	146	1.3	0.2	220	8	BARICHARA (SANTANDER)
320	Jul 8 2017	08:55:27.1	6.80	-73.14	145	1.6	0.4	112	12	LOS SANTOS (SANTANDER)
321	Jul 8 2017	08:56: 6.7	6.73	-73.18	156	1.4	0.1	232	7	VILLANUEVA (SANTANDER)
322	Jul 8 2017	09:07:40.1	6.73	-73.18	155	1.2	0.3	232	8	VILLANUEVA (SANTANDER)
323	Jul 8 2017	09:12:18.4	6.72	-73.21	151	0.9	0.2	220	6	VILLANUEVA (SANTANDER)
324	Jul 8 2017	09:17:48.4	6.61	-73.18	144	1.1	0.3	223	7	BARICHARA (SANTANDER)
325	Jul 8 2017	09:22:44.5	5.80	-78.39	10	1.8	0.5	205	17	O. PACIFICO NORTE
326	Jul 8 2017	10:13:35.9	6.61	-73.20	139	1.3	0.1	175	7	BARICHARA (SANTANDER)
327	Jul 8 2017	10:25:14.2	6.79	-73.14	146	2.1	0.4	100	34	LOS SANTOS (SANTANDER)
328	Jul 8 2017	11:20:30.8	7.08	-78.08	Sup	1.9	0.6	200	9	O. PACIFICO NORTE
329	Jul 8 2017	11:37:18.5	7.01	-76.34	15	1.4	0.5	244	8	DABEIBA (ANTIOQUIA)
330	Jul 8 2017	12:23:15.1	2.09	-75.69	19	1.1	0.3	109	10	ALTAMIRA (HUILA)
331	Jul 8 2017	12:29:21.8	3.23	-76.75	14	1.7	0.3	150	13	JAMUNDI (VALLE)
332	Jul 8 2017	13:11:16.9	6.72	-73.16	142	1.6	0.2	150	8	VILLANUEVA (SANTANDER)
333	Jul 8 2017	13:35:17.6	5.15	-73.04	Sup	1.9	0.6	142	20	PAEZ (BOYACA)
334	Jul 8 2017	14:29:22.3	6.77	-73.14	145	1.8	0.4	113	15	LOS SANTOS (SANTANDER)
335	Jul 8 2017	14:43:51.0	3.93	-76.16	113	2.2	0.5	77	22	SAN PEDRO (VALLE)
336	Jul 8 2017	16:41:17.0	10.76	-72.68	27	2.3	0.1	210	11	MANAURE BALCON CESAR (CESAR)
337	Jul 8 2017	18:22:53.2	7.01	-72.01	Sup	1.6	0.4	223	10	CUBARA (BOYACA)
338	Jul 8 2017	22:23:35.2	6.83	-73.11	156	4.3*	0.9	67	95	LOS SANTOS (SANTANDER)
339	Jul 8 2017	23:27:41.9	5.94	-73.75	110	1.6	0.4	186	16	SUCRE (SANTANDER)
340	Jul 9 2017	00:14:25.8	6.81	-73.16	146	2.0	0.4	109	16	LOS SANTOS (SANTANDER)
341	Jul 9 2017	01:08: 3.5	6.81	-76.43	43	1.4	0.5	248	8	DABEIBA (ANTIOQUIA)
342	Jul 9 2017	01:18:36.8	7.42	-73.19	134	1.6	0.1	187	8	EL PLAYON (SANTANDER)
343	Jul 9 2017	03:11:31.8	9.81	-72.91	Sup	1.6	0.6	231	10	FRONTERA CON VENEZUELA
344	Jul 9 2017	03:45:24.1	4.11	-78.90	32	2.5	0.6	153	25	O. PACIFICO CENTRO
345	Jul 9 2017	04:52:38.2	3.46	-74.30	Sup	2.1	0.5	224	17	URIBE (META)

\*Magnitud de Momento (Mw)



Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
346	Jul 9 2017	05:03:27.7	6.15	-73.74	101	1.6	0.4	123	16	LANDAZURI (SANTANDER)
347	Jul 9 2017	05:38:10.4	7.09	-73.28	121	1.9	0.6	227	18	LEBRIJA (SANTANDER)
348	Jul 9 2017	05:43:11.3	6.77	-73.13	144	1.9	0.4	164	20	LOS SANTOS (SANTANDER)
349	Jul 9 2017	05:56:31.2	6.83	-73.16	151	4.1*	0.5	64	80	LOS SANTOS (SANTANDER)
350	Jul 9 2017	06:49:27.8	6.74	-73.12	142	2.2	0.6	94	28	LOS SANTOS (SANTANDER)
351	Jul 9 2017	06:59: 7.6	6.81	-73.09	143	2.2	0.6	187	30	LOS SANTOS (SANTANDER)
352	Jul 9 2017	07:43:32.1	3.96	-76.46	127	2.6	0.6	71	53	CALIMA (VALLE)
353	Jul 9 2017	07:53: 8.4	6.74	-73.17	144	1.5	0.4	240	10	LOS SANTOS (SANTANDER)
354	Jul 9 2017	08:52: 5.2	8.23	-73.02	153	1.7	0.3	194	11	HACARI (N.SANTANDER)
355	Jul 9 2017	09:05:58.9	6.78	-73.12	146	1.8	0.5	258	18	LOS SANTOS (SANTANDER)
356	Jul 9 2017	09:27: 6.3	6.40	-73.66	111	1.3	0.2	141	7	SANTA HELENA DEL OPO (SANTANDER)
357	Jul 9 2017	09:32:41.6	6.81	-76.50	44	1.1	0.3	253	9	MURINDO (ANTIOQUIA)
358	Jul 9 2017	09:40:50.3	4.61	-76.20	Sup	0.9	0.3	151	10	VERSALLES (VALLE)
359	Jul 9 2017	10:33: 5.5	2.38	-75.54	Sup	2.2	0.6	77	35	GIGANTE (HUILA)
360	Jul 9 2017	11:24:58.8	6.81	-73.13	144	2.0	0.4	112	22	LOS SANTOS (SANTANDER)
361	Jul 9 2017	11:44:18.5	6.65	-73.13	135	1.7	0.5	201	16	VILLANUEVA (SANTANDER)
362	Jul 9 2017	12:23: 3.2	6.78	-73.14	134	1.7	0.3	280	12	LOS SANTOS (SANTANDER)
363	Jul 9 2017	12:41:34.8	4.80	-76.24	109	1.3	0.3	146	8	EL CAIRO (VALLE)
364	Jul 9 2017	14:55: 8.7	5.97	-75.14	Sup	0.7	0.5	111	10	SAN FRANCISCO (ANTIOQUIA)
365	Jul 9 2017	15:01:11.8	7.07	-76.18	7	1.5	0.4	125	12	DABEIBA (ANTIOQUIA)
366	Jul 9 2017	15:31:34.3	6.78	-73.13	152	1.6	0.4	280	12	LOS SANTOS (SANTANDER)
367	Jul 9 2017	15:51: 4.4	2.35	-75.40	Sup	1.6	0.3	247	7	GIGANTE (HUILA)
368	Jul 9 2017	16:00:48.9	6.80	-73.16	144	1.9	0.4	110	19	LOS SANTOS (SANTANDER)
369	Jul 9 2017	16:08:41.8	8.36	-73.19	129	2.1	0.2	300	12	SAN CALIXTO (N.SANTANDER)
370	Jul 9 2017	19:07:46.2	6.78	-73.11	140	1.8	0.3	282	10	LOS SANTOS (SANTANDER)
371	Jul 9 2017	19:11:31.4	7.79	-75.17	14	1.3	0.4	230	8	CAUCASIA (ANTIOQUIA)
372	Jul 9 2017	19:21:31.9	7.10	-76.18	Sup	1.4	0.6	141	15	DABEIBA (ANTIOQUIA)
373	Jul 9 2017	19:31:14.2	6.78	-73.14	142	2.1	0.4	112	19	LOS SANTOS (SANTANDER)
374	Jul 9 2017	19:33:24.3	2.46	-75.36	17	2.4	0.7	96	25	ALGECIRAS (HUILA)
375	Jul 9 2017	19:40: 2.2	12.18	-73.35	Sup	1.7	0.4	249	8	MAR CARIBE
376	Jul 9 2017	19:48:46.2	6.85	-73.12	145	1.9	0.5	187	20	LOS SANTOS (SANTANDER)
377	Jul 9 2017	20:13:39.4	5.08	-74.85	Sup	1.1	0.2	270	10	ARMERO (TOLIMA)
378	Jul 9 2017	20:32:55.9	3.28	-74.44	Sup	2.1	0.8	68	33	URIBE (META)
379	Jul 9 2017	21:11:35.1	6.81	-73.16	138	1.1	0.4	144	11	LOS SANTOS (SANTANDER)
380	Jul 9 2017	21:42:42.9	6.75	-73.12	149	1.7	0.4	164	14	LOS SANTOS (SANTANDER)
381	Jul 9 2017	22:23:11.3	6.52	-73.03	133	1.5	0.2	208	11	MOGOTES (SANTANDER)
382	Jul 9 2017	22:44:56.3	4.93	-74.84	Sup	1.5	0.4	154	14	LERIDA (TOLIMA)
383	Jul 9 2017	23:30:57.5	8.50	-77.69	66	2.0	0.3	133	15	FRONTERA CON PANAMA
384	Jul 9 2017	23:37: 8.5	5.60	-74.70	Sup	1.5	0.6	60	21	PUERTO SALGAR (CUNDINAMARCA)
385	Jul 9 2017	23:45:19.2	9.41	-72.99	8	1.4	0.5	201	11	FRONTERA CON VENEZUELA
386	Jul 10 2017	00:33:58.4	5.80	-76.00	68	1.4	0.2	153	16	CIUDAD BOLIVAR (ANTIOQUIA)
387	Jul 10 2017	00:43:53.7	7.22	-75.25	7	1.9	0.4	86	26	ANORI (ANTIOQUIA)
388	Jul 10 2017	00:45:30.9	3.91	-71.40	Sup	2.4	0.8	231	12	PUERTO GAITAN (META)
389	Jul 10 2017	00:58: 7.6	2.35	-79.21	7	2.1	0.3	249	20	O. PACIFICO SUR
390	Jul 10 2017	01:15:39.3	6.67	-73.12	146	1.5	0.3	185	10	VILLANUEVA (SANTANDER)
391	Jul 10 2017	01:39: 4.3	6.52	-74.72	Sup	2.6	0.4	68	27	MACEO (ANTIOQUIA)
392	Jul 10 2017	04:16: 2.3	6.78	-73.15	139	2.1	0.5	111	22	LOS SANTOS (SANTANDER)
393	Jul 10 2017	04:19:51.2	7.31	-74.71	Sup	1.7	0.4	127	24	ZARAGOZA (ANTIOQUIA)
394	Jul 10 2017	04:36:15.6	6.79	-73.14	142	2.0	0.5	113	24	LOS SANTOS (SANTANDER)

\*Magnitud de Momento (Mw)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
395	Jul 10 2017	04:37:32.2	6.78	-73.13	144	2.1	0.4	114	26	LOS SANTOS (SANTANDER)
396	Jul 10 2017	05:35:12.0	6.66	-73.17	149	1.3	0.1	238	8	VILLANUEVA (SANTANDER)
397	Jul 10 2017	05:46:47.0	7.48	-73.18	133	1.2	0.5	196	12	EL PLAYON (SANTANDER)
398	Jul 10 2017	06:00:38.4	8.52	-73.49	136	1.4	0.4	273	12	EL CARMEN (N.SANTANDER)
399	Jul 10 2017	06:02:54.7	7.29	-73.18	128	1.2	0.3	169	9	RIONEGRO (SANTANDER)
400	Jul 10 2017	06:17:35.5	6.75	-73.15	146	1.5	0.5	208	14	LOS SANTOS (SANTANDER)
401	Jul 10 2017	06:32:53.6	3.42	-74.58	Sup	1.4	0.3	174	10	COLOMBIA (HUILA)
402	Jul 10 2017	06:53:42.5	7.05	-73.12	157	1.2	0.2	263	8	FLORIDABLANCA (SANTANDER)
403	Jul 10 2017	07:01:29.6	6.69	-73.12	139	1.1	0.4	265	10	JORDAN (SANTANDER)
404	Jul 10 2017	07:02:42.5	6.78	-73.18	151	1.2	0.3	239	10	LOS SANTOS (SANTANDER)
405	Jul 10 2017	07:34:52.0	5.00	-75.49	12	0.4	0.4	280	7	VILLAMARIA (CALDAS)
406	Jul 10 2017	07:35:18.6	3.95	-71.39	Sup	1.3	0.4	243	7	PUERTO GAITAN (META)
407	Jul 10 2017	07:49:27.1	6.70	-73.21	150	1.3	0.2	198	8	VILLANUEVA (SANTANDER)
408	Jul 10 2017	08:40:43.1	8.83	-73.57	124	1.2	0.2	285	7	PAILITAS (CESAR)
409	Jul 10 2017	09:28:40.9	6.80	-73.18	149	1.6	0.4	108	21	ZAPATOCA (SANTANDER)
410	Jul 10 2017	09:37:43.2	7.28	-73.39	109	1.1	0.4	245	8	SABANA DE TORRES (SANTANDER)
411	Jul 10 2017	10:00:47.3	6.78	-73.18	147	2.0	0.3	208	20	ZAPATOCA (SANTANDER)
412	Jul 10 2017	10:04:38.0	4.39	-76.22	108	1.5	0.4	108	16	BOLIVAR (VALLE)
413	Jul 10 2017	10:11: 8.0	4.78	-73.15	8	2.1	0.3	194	7	SAN LUIS DE GACENO (BOYACA)
414	Jul 10 2017	10:33:32.8	10.55	-73.54	Sup	1.8	0.6	102	10	PUEBLO BELLO (CESAR)
415	Jul 10 2017	11:01:32.3	5.35	-76.72	Sup	1.5	0.4	205	9	EL CANTON DEL SAN PABL (CHOCO)
416	Jul 10 2017	11:48:23.1	10.91	-73.86	26	1.8	0.4	138	9	PUEBLO BELLO (CESAR)
417	Jul 10 2017	11:56:26.9	6.75	-73.08	139	1.8	0.3	271	12	LOS SANTOS (SANTANDER)
418	Jul 10 2017	12:34:21.6	6.84	-73.17	154	1.6	0.6	215	10	ZAPATOCA (SANTANDER)
419	Jul 10 2017	12:51:35.4	6.77	-73.14	142	2.4	0.5	170	32	LOS SANTOS (SANTANDER)
420	Jul 10 2017	12:54:14.8	4.09	-76.70	28	0.8	0.4	125	8	CALIMA (VALLE)
421	Jul 10 2017	12:59:33.6	6.78	-73.16	143	2.0	0.4	111	19	LOS SANTOS (SANTANDER)
422	Jul 10 2017	14:05:19.3	6.84	-74.03	76	1.4	0.4	103	11	PUERTO PARRA (SANTANDER)
423	Jul 10 2017	14:26: 5.3	10.44	-73.48	85	1.8	0.3	91	12	PUEBLO BELLO (CESAR)
424	Jul 10 2017	14:53: 1.3	6.32	-74.04	31	1.7	0.4	155	13	CIMITARRA (SANTANDER)
425	Jul 10 2017	16:08:13.5	4.02	-76.35	137	1.2	0.4	163	9	SAN PEDRO (VALLE)
426	Jul 10 2017	16:29:24.8	10.69	-73.91	29	1.6	0.4	105	11	PUEBLO BELLO (CESAR)
427	Jul 10 2017	17:07:53.5	3.45	-74.26	Sup	2.0	0.7	91	22	MESETAS (META)
428	Jul 10 2017	17:35:13.6	6.73	-73.11	141	1.8	0.2	172	13	JORDAN (SANTANDER)
429	Jul 10 2017	18:40:13.9	6.99	-73.48	109	1.6	0.4	129	10	SAN VICENTE DE CHUCURI (SANTANDER)
430	Jul 10 2017	19:11:42.2	10.06	-74.86	8	1.9	0.3	182	11	EL GUAMO (BOLIVAR)
431	Jul 10 2017	19:24: 6.4	6.82	-73.33	120	2.0	0.3	104	16	ZAPATOCA (SANTANDER)
432	Jul 10 2017	19:45: 3.8	4.67	-73.25	Sup	2.2	0.7	143	11	SAN LUIS DE GACENO (BOYACA)
433	Jul 10 2017	20:55:18.3	4.81	-75.60	Sup	1.8	0.5	114	18	SANTA ROSA DE CABAL (RISARALDA)
434	Jul 10 2017	21:30:29.7	7.46	-75.53	48	1.6	0.2	123	8	TARAZA (ANTIOQUIA)
435	Jul 10 2017	22:14:18.3	6.82	-73.15	150	2.1	0.5	110	23	LOS SANTOS (SANTANDER)
436	Jul 10 2017	23:24: 6.8	6.78	-73.12	136	1.9	0.4	115	16	LOS SANTOS (SANTANDER)
437	Jul 11 2017	00:57:16.0	5.95	-73.55	128	1.7	0.3	124	15	TOGUI (BOYACA)
438	Jul 11 2017	01:15:58.1	7.44	-73.16	130	1.7	0.5	191	14	EL PLAYON (SANTANDER)
439	Jul 11 2017	01:31: 8.8	6.83	-73.14	150	2.2	0.4	111	28	LOS SANTOS (SANTANDER)
440	Jul 11 2017	01:56:29.7	3.84	-76.21	139	1.8	0.4	114	16	BUGA (VALE)
441	Jul 11 2017	02:27:42.9	4.83	-74.67	12	1.1	0.2	204	8	SAN JUAN DE RIOSECO (CUNDINAMARCA)
442	Jul 11 2017	02:35: 5.4	6.86	-73.16	148	2.4	0.6	108	40	ZAPATOCA (SANTANDER)
443	Jul 11 2017	02:50:47.3	6.73	-73.10	152	1.5	0.3	266	10	JORDAN (SANTANDER)
444	Jul 11 2017	03:21:58.6	10.40	-72.71	Sup	1.8	0.2	191	12	FRONTERA CON VENEZUELA

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
445	Jul 11 2017	04:04:24.6	5.59	-72.82	Sup	2.0	0.6	108	20	AQUITANIA (BOYACA)
446	Jul 11 2017	04:20:21.1	2.38	-75.30	16	1.7	0.3	104	12	ALGECIRAS (HUILA)
447	Jul 11 2017	04:21:56.2	6.82	-73.13	137	2.0	0.5	112	24	LOS SANTOS (SANTANDER)
448	Jul 11 2017	05:21:33.9	6.72	-73.16	139	1.6	0.5	243	14	VILLANUEVA (SANTANDER)
449	Jul 11 2017	06:17:23.4	5.80	-73.63	120	1.4	0.1	221	8	PUENTE NACIONAL (SANTANDER)
450	Jul 11 2017	06:25:41.3	6.06	-73.28	Sup	1.8	0.6	218	21	GAMBITA (SANTANDER)
451	Jul 11 2017	08:50:14.2	6.78	-73.11	141	1.5	0.5	260	12	LOS SANTOS (SANTANDER)
452	Jul 11 2017	08:56: 8.3	6.82	-73.14	152	2.6	0.4	65	46	LOS SANTOS (SANTANDER)
453	Jul 11 2017	10:27:47.7	4.23	-76.26	109	3.0	0.6	55	66	TRUJILLO (VALLE)
454	Jul 11 2017	11:13:29.4	4.21	-77.39	28	1.9	0.5	201	10	LITORAL DEL SAN JUAN (CHOCO)
455	Jul 11 2017	11:24:48.8	6.56	-73.14	142	1.5	0.3	315	7	SAN GIL (SANTANDER)
456	Jul 11 2017	12:55:51.7	6.66	-73.16	145	1.4	0.2	245	8	VILLANUEVA (SANTANDER)
457	Jul 11 2017	14:59:36.1	4.92	-76.86	43	1.4	0.2	251	8	MEDIO SAN JUAN (CHOCO)
458	Jul 11 2017	15:52: 1.5	6.77	-73.14	141	2.0	0.5	210	16	LOS SANTOS (SANTANDER)
459	Jul 11 2017	19:10:28.1	6.76	-73.08	145	1.7	0.4	270	12	LOS SANTOS (SANTANDER)
460	Jul 11 2017	19:31: 8.4	10.19	-72.41	Sup	1.8	0.4	226	8	FRONTERA CON VENEZUELA
461	Jul 11 2017	19:52:52.4	6.68	-73.12	124	1.8	0.3	264	11	VILLANUEVA (SANTANDER)
462	Jul 11 2017	20:20:38.3	6.37	-77.67	22	2.5	0.4	231	9	O. PACIFICO NORTE
463	Jul 11 2017	20:50:32.4	6.11	-72.87	Sup	2.1	0.8	186	17	TUTAZA (BOYACA)
464	Jul 11 2017	21:04:18.5	3.25	-74.92	Sup	1.2	0.2	221	8	ALPUJARRA (TOLIMA)
465	Jul 11 2017	21:15: 7.1	6.83	-72.96	183	2.1	0.4	258	10	CEPITA (SANTANDER)
466	Jul 11 2017	21:42: 1.7	6.72	-73.09	150	1.6	0.5	270	8	JORDAN (SANTANDER)
467	Jul 11 2017	22:30:42.6	5.84	-74.90	Sup	1.1	0.5	130	9	SAN LUIS (ANTIOQUIA)
468	Jul 11 2017	22:52:43.1	6.68	-73.19	151	1.5	0.2	224	7	VILLANUEVA (SANTANDER)
469	Jul 11 2017	23:31:41.2	6.77	-73.11	144	2.2	0.8	116	22	LOS SANTOS (SANTANDER)
470	Jul 11 2017	23:57:55.4	6.69	-73.13	147	1.5	0.2	170	9	VILLANUEVA (SANTANDER)
471	Jul 12 2017	01:07:40.8	6.75	-73.11	145	1.8	0.4	261	11	LOS SANTOS (SANTANDER)
472	Jul 12 2017	02:15:21.1	6.81	-73.14	136	1.6	0.4	251	10	LOS SANTOS (SANTANDER)
473	Jul 12 2017	03:58:18.8	4.06	-76.85	31	1.6	0.7	122	16	BUENAVENTURA (VALLE)
474	Jul 12 2017	04:45:53.3	4.02	-76.27	143	1.3	0.2	169	12	SAN PEDRO (VALLE)
475	Jul 12 2017	04:54: 8.3	4.81	-76.18	100	1.1	0.3	127	8	EL CAIRO (VALLE)
476	Jul 12 2017	05:03:33.9	6.78	-73.15	144	1.5	0.4	149	17	LOS SANTOS (SANTANDER)
477	Jul 12 2017	05:47:59.0	6.81	-73.14	151	2.0	0.4	111	28	LOS SANTOS (SANTANDER)
478	Jul 12 2017	06:03:54.8	4.91	-77.58	23	1.4	0.3	272	8	O. PACIFICO CENTRO
479	Jul 12 2017	06:15:41.4	4.60	-76.30	118	1.7	0.5	169	18	VERSALLES (VALLE)
480	Jul 12 2017	06:30:57.1	6.76	-73.12	140	1.6	0.3	162	12	LOS SANTOS (SANTANDER)
481	Jul 12 2017	06:52:47.7	7.43	-73.18	132	1.8	0.3	189	18	EL PLAYON (SANTANDER)
482	Jul 12 2017	08:15:28.5	3.40	-76.58	68	1.9	0.5	103	20	CALI (VALLE)
483	Jul 12 2017	08:36:23.1	6.33	-73.60	115	1.9	0.4	88	20	SANTA HELENA DEL OPO (SANTANDER)
484	Jul 12 2017	08:55:50.9	6.83	-73.13	153	3.0	0.5	66	60	LOS SANTOS (SANTANDER)
485	Jul 12 2017	08:59:13.2	7.46	-74.68	46	1.5	0.5	181	14	EL BAGRE (ANTIOQUIA)
486	Jul 12 2017	09:56: 0.9	6.28	-77.59	7	2.1	0.2	238	10	O. PACIFICO NORTE
487	Jul 12 2017	10:00:28.7	7.52	-74.13	64	1.4	0.3	121	16	SAN PABLO (BOLIVAR)
488	Jul 12 2017	10:02:19.2	6.30	-77.57	12	2.1	0.4	207	15	O. PACIFICO NORTE
489	Jul 12 2017	10:57:56.1	6.83	-73.01	108	1.3	0.2	292	8	CEPITA (SANTANDER)
490	Jul 12 2017	11:26:30.3	8.44	-73.24	124	1.9	0.3	213	10	TEORAMA (N.SANTANDER)
491	Jul 12 2017	12:33:59.1	6.81	-73.13	143	1.9	0.4	151	16	LOS SANTOS (SANTANDER)
492	Jul 12 2017	12:40:40.7	6.62	-73.25	130	1.4	0.5	160	14	BARICHARA (SANTANDER)
493	Jul 12 2017	13:26:56.6	6.59	-74.98	27	2.5	0.5	54	37	YOLOMBO (ANTIOQUIA)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
494	Jul 12 2017	15:31:59.2	7.79	-72.34	Sup	3.3*	0.6	153	47	FRONTERA CON VENEZUELA
495	Jul 12 2017	17:02: 9.2	4.51	-76.86	59	1.9	0.4	89	20	SIPI (CHOCO)
496	Jul 12 2017	17:16:24.7	6.71	-73.15	131	1.7	0.4	157	16	VILLANUEVA (SANTANDER)
497	Jul 12 2017	17:40: 9.9	6.48	-77.49	Sup	2.5	0.6	172	36	O. PACIFICO NORTE
498	Jul 12 2017	18:31:58.0	7.21	-77.22	16	2.2	0.5	139	13	RIOSUCIO (CHOCO)
499	Jul 12 2017	18:34:25.9	6.98	-76.31	12	1.5	0.5	241	9	DABEIBA (ANTIOQUIA)
500	Jul 12 2017	18:42: 4.1	6.46	-77.57	Sup	2.5	0.6	187	36	O. PACIFICO NORTE
501	Jul 12 2017	18:51:55.5	6.60	-76.97	14	2.3	0.4	146	12	BOJAYA (CHOCO)
502	Jul 12 2017	18:52:43.1	6.76	-71.83	Sup	2.0	0.6	229	10	FORTUL (ARAUCA)
503	Jul 12 2017	19:15: 5.6	2.03	-77.22	118	1.6	0.5	189	10	BALBOA (CAUCA)
504	Jul 12 2017	19:35:56.6	6.76	-73.16	143	2.0	0.3	111	18	LOS SANTOS (SANTANDER)
505	Jul 12 2017	20:32:43.1	6.86	-73.13	153	2.8	0.6	65	49	LOS SANTOS (SANTANDER)
506	Jul 12 2017	20:55: 7.0	4.58	-76.61	26	1.5	0.4	224	8	SIPI (CHOCO)
507	Jul 12 2017	20:56:39.9	5.89	-74.76	11	1.2	0.5	89	13	PUERTO TRIUNFO (ANTIOQUIA)
508	Jul 12 2017	21:05:24.6	5.79	-75.66	Sup	1.9	0.6	66	22	LA PINTADA (ANTIOQUIA)
509	Jul 12 2017	21:11:26.0	2.09	-75.66	13	1.4	0.5	108	10	GARZON (HUILA)
510	Jul 12 2017	21:14:16.1	7.04	-73.71	94	1.8	0.4	74	15	BARRANCABERMEJA (SANTANDER)
511	Jul 12 2017	21:35:57.9	6.79	-73.13	145	1.7	0.4	139	18	LOS SANTOS (SANTANDER)
512	Jul 12 2017	22:11: 5.9	1.90	-75.96	Sup	0.6	0.1	139	8	TIMANA (HUILA)
513	Jul 12 2017	22:40:26.8	5.83	-74.88	Sup	1.4	0.8	75	19	SAN LUIS (ANTIOQUIA)
514	Jul 13 2017	00:20:43.5	10.07	-73.03	Sup	2.1	0.6	141	16	AGUSTIN CODAZZI (CESAR)
515	Jul 13 2017	00:30:14.9	6.29	-73.63	116	1.3	0.2	160	8	SANTA HELENA DEL OPOON (SANTANDER)
516	Jul 13 2017	01:50:44.2	6.82	-73.35	124	1.8	0.5	104	16	SAN VICENTE DE CHUCURI (SANTANDER)
517	Jul 13 2017	02:11: 2.0	6.78	-73.14	144	1.3	0.4	237	8	LOS SANTOS (SANTANDER)
518	Jul 13 2017	03:28:31.6	6.64	-75.79	22	1.1	0.5	142	12	OLAYA (ANTIOQUIA)
519	Jul 13 2017	03:34:49.6	8.70	-74.20	28	1.7	0.3	112	14	ALTOS DEL ROSARIO (BOLIVAR)
520	Jul 13 2017	04:22:49.2	6.82	-73.14	144	2.7	0.4	104	42	LOS SANTOS (SANTANDER)
521	Jul 13 2017	05:01:24.0	6.76	-73.14	145	1.4	0.4	139	12	LOS SANTOS (SANTANDER)
522	Jul 13 2017	05:52:14.3	6.47	-74.38	64	1.1	0.1	113	7	PUERTO BERRIO (ANTIOQUIA)
523	Jul 13 2017	07:19:20.0	6.82	-73.14	154	1.2	0.5	149	12	LOS SANTOS (SANTANDER)
524	Jul 13 2017	07:40: 6.2	6.71	-73.13	148	1.1	0.1	164	8	JORDAN (SANTANDER)
525	Jul 13 2017	07:57:10.0	7.37	-73.31	119	1.1	0.2	179	10	EL PLAYON (SANTANDER)
526	Jul 13 2017	07:59:45.3	4.47	-76.23	104	1.4	0.2	161	10	EL DOVIO (VALLE)
527	Jul 13 2017	08:59:22.0	6.74	-73.15	141	1.2	0.5	138	11	LOS SANTOS (SANTANDER)
528	Jul 13 2017	10:10:18.9	6.80	-73.15	142	1.7	0.4	111	18	LOS SANTOS (SANTANDER)
529	Jul 13 2017	10:18:13.6	6.76	-73.14	143	1.5	0.4	138	15	LOS SANTOS (SANTANDER)
530	Jul 13 2017	10:50: 5.4	6.80	-73.16	144	2.2	0.4	134	20	LOS SANTOS (SANTANDER)
531	Jul 13 2017	11:16: 3.4	6.74	-73.15	133	1.2	0.4	247	7	LOS SANTOS (SANTANDER)
532	Jul 13 2017	11:52:14.4	6.79	-73.15	143	1.6	0.3	101	16	LOS SANTOS (SANTANDER)
533	Jul 13 2017	13:56:26.5	6.82	-73.20	130	1.3	0.4	128	10	ZAPATOCA (SANTANDER)
534	Jul 13 2017	14:53:57.0	6.68	-73.17	138	1.1	0.3	237	6	VILLANUEVA (SANTANDER)
535	Jul 13 2017	15:01:14.7	6.74	-73.19	140	1.7	0.4	133	10	VILLANUEVA (SANTANDER)
536	Jul 13 2017	16:06:46.5	7.14	-76.17	Sup	1.6	0.4	135	10	DABEIBA (ANTIOQUIA)
537	Jul 13 2017	16:10:56.7	5.40	-73.80	133	1.3	0.3	168	12	FUQUENE (CUNDINAMARCA)
538	Jul 13 2017	16:15:35.0	3.70	-76.19	142	1.2	0.3	147	8	GINEBRA (VALLE)
539	Jul 13 2017	17:40:34.5	4.49	-76.08	94	2.2	0.4	85	23	LA UNION (VALLE)
540	Jul 13 2017	17:52:51.2	7.11	-76.20	Sup	2.7	0.8	151	29	DABEIBA (ANTIOQUIA)
541	Jul 13 2017	18:16:19.5	5.92	-74.89	Sup	1.1	0.6	123	9	SAN LUIS (ANTIOQUIA)
542	Jul 13 2017	18:20:47.5	6.45	-77.57	Sup	3.3	0.6	198	31	O. PACIFICO NORTE

\*Magnitud de Momento (Mw)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
543	Jul 13 2017	18:30:3.8	7.03	-76.14	Sup	1.7	0.5	80	10	DABEIBA (ANTIOQUIA)
544	Jul 13 2017	18:34:39.5	7.08	-76.16	Sup	2.2	0.7	117	22	DABEIBA (ANTIOQUIA)
545	Jul 13 2017	18:38:41.0	7.04	-76.13	Sup	1.8	0.6	82	15	DABEIBA (ANTIOQUIA)
546	Jul 13 2017	20:30:51.1	6.81	-73.12	143	1.5	0.3	138	13	LOS SANTOS (SANTANDER)
547	Jul 13 2017	20:56:28.9	6.74	-73.14	140	1.4	0.2	139	10	LOS SANTOS (SANTANDER)
548	Jul 13 2017	21:51:0.9	6.82	-73.15	145	2.8	0.5	65	57	LOS SANTOS (SANTANDER)
549	Jul 13 2017	22:57:43.1	6.86	-73.30	124	3.1	0.6	54	59	BETULIA (SANTANDER)
550	Jul 13 2017	23:11:40.0	6.46	-73.74	88	2.0	0.5	78	30	SANTA HELENA DEL OPON (SANTANDER)
551	Jul 13 2017	23:56:48.7	4.00	-74.06	Sup	2.3	0.7	129	46	GUTIERREZ (CUNDINAMARCA)
552	Jul 14 2017	01:54:52.1	6.88	-73.57	Sup	0.9	0.2	157	8	SAN VICENTE DE CHUCURI (SANTANDER)
553	Jul 14 2017	03:32:1.7	6.81	-73.09	144	1.7	0.5	217	20	LOS SANTOS (SANTANDER)
554	Jul 14 2017	04:19:53.6	10.22	-72.93	Sup	1.5	0.5	182	10	MANAURE BALCON CESAR (CESAR)
555	Jul 14 2017	04:26:27.1	2.02	-77.20	117	1.5	0.4	186	12	BALBOA (CAUCA)
556	Jul 14 2017	04:32:33.5	6.89	-73.05	146	1.7	0.5	227	15	PIEDECUENTA (SANTANDER)
557	Jul 14 2017	04:38:59.0	12.15	-72.58	32	2.1	0.5	250	13	MAR CARIBE
558	Jul 14 2017	05:11:13.1	6.77	-73.11	144	1.8	0.3	142	23	LOS SANTOS (SANTANDER)
559	Jul 14 2017	05:18:13.4	6.72	-73.10	147	1.2	0.2	236	10	JORDAN (SANTANDER)
560	Jul 14 2017	06:16:56.5	6.76	-73.16	142	1.3	0.4	232	13	LOS SANTOS (SANTANDER)
561	Jul 14 2017	06:33:44.9	6.79	-73.13	151	1.4	0.4	238	12	LOS SANTOS (SANTANDER)
562	Jul 14 2017	06:48:22.4	6.70	-73.20	145	0.9	0.4	220	8	VILLANUEVA (SANTANDER)
563	Jul 14 2017	06:57:27.1	7.16	-75.99	Sup	1.9	0.6	85	24	PEQUE (ANTIOQUIA)
564	Jul 14 2017	07:06:58.5	6.76	-73.15	144	1.6	0.4	209	14	LOS SANTOS (SANTANDER)
565	Jul 14 2017	07:14:33.9	6.80	-73.13	145	2.6	0.5	102	40	LOS SANTOS (SANTANDER)
566	Jul 14 2017	07:29:3.8	6.82	-73.07	149	1.2	0.2	246	9	LOS SANTOS (SANTANDER)
567	Jul 14 2017	07:49:45.1	6.78	-73.15	146	1.6	0.3	137	16	LOS SANTOS (SANTANDER)
568	Jul 14 2017	08:02:8.3	5.91	-73.79	110	1.1	0.3	222	10	SUCRE (SANTANDER)
569	Jul 14 2017	08:14:50.3	6.78	-73.14	146	1.9	0.4	112	23	LOS SANTOS (SANTANDER)
570	Jul 14 2017	08:21:21.9	4.78	-74.70	6	1.3	0.4	129	12	BELTRAN (CUNDINAMARCA)
571	Jul 14 2017	08:34:6.9	3.13	-75.92	Sup	2.9	0.6	74	62	PLANADAS (TOLIMA)
572	Jul 14 2017	08:42:49.1	6.80	-73.12	141	1.3	0.4	240	12	LOS SANTOS (SANTANDER)
573	Jul 14 2017	09:32:6.0	6.85	-73.16	142	2.4	0.6	63	33	ZAPATOCA (SANTANDER)
574	Jul 14 2017	10:34:53.2	9.87	-73.79	80	1.7	0.4	160	13	BOSCONIA (CESAR)
575	Jul 14 2017	11:06:28.9	6.84	-73.19	147	1.3	0.3	242	7	ZAPATOCA (SANTANDER)
576	Jul 14 2017	11:51:23.2	6.75	-73.15	138	1.8	0.4	112	18	LOS SANTOS (SANTANDER)
577	Jul 14 2017	12:19:18.0	3.87	-75.96	10	2.3	0.6	67	28	SAN PEDRO (VALLE)
578	Jul 14 2017	12:44:13.8	6.71	-73.20	141	0.1	0.2	235	12	VILLANUEVA (SANTANDER)
579	Jul 14 2017	12:53:33.8	6.75	-73.11	135	2.1	0.5	211	27	LOS SANTOS (SANTANDER)
580	Jul 14 2017	13:06:32.2	10.62	-73.53	Sup	2.0	0.6	110	9	PUEBLO BELLO (CESAR)
581	Jul 14 2017	13:26:60.0	6.32	-73.60	113	1.5	0.4	85	15	SANTA HELENA DEL OPON (SANTANDER)
582	Jul 14 2017	13:40:13.6	5.42	-74.05	118	1.0	0.3	274	8	COPER (BOYACA)
583	Jul 14 2017	14:40:28.0	6.55	-73.53	113	2.4	0.5	58	40	EL CARMEN (SANTANDER)
584	Jul 14 2017	15:08:2.8	6.67	-73.32	142	1.2	0.3	217	8	GALAN (SANTANDER)
585	Jul 14 2017	15:25:20.4	3.81	-76.22	118	1.6	0.4	115	9	GINEBRA (VALLE)
586	Jul 14 2017	16:06:32.1	6.85	-73.53	107	1.6	0.3	191	8	SAN VICENTE DE CHUCURI (SANTANDER)
587	Jul 14 2017	16:40:20.1	3.16	-76.00	32	1.3	0.2	160	8	MIRANDA (CAUCA)
588	Jul 14 2017	17:32:7.4	6.76	-73.15	139	1.9	0.5	112	24	LOS SANTOS (SANTANDER)
589	Jul 14 2017	18:11:33.2	4.84	-73.03	20	1.7	0.6	97	12	SABANALARGA (CASANARE)
590	Jul 14 2017	18:13:12.8	3.67	-76.98	57	1.6	0.5	157	12	BUENAVENTURA (VALLE)
591	Jul 14 2017	18:20:36.8	3.88	-71.41	Sup	2.6	0.4	284	10	PUERTO GAITAN (META)
592	Jul 14 2017	19:13:11.9	6.79	-73.12	144	1.3	0.3	239	12	LOS SANTOS (SANTANDER)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
593	Jul 14 2017	19:55:36.8	2.88	-78.05	Sup	2.1	0.4	159	13	O. PACIFICO SUR
594	<u>Jul 14 2017</u>	<u>20:12:46.1</u>	<u>0.77</u>	<u>-77.90</u>	<u>7</u>	<u>3.4</u>	<u>1.9</u>	<u>114</u>	<u>56</u>	<u>VOLCAN CHILES</u>
595	Jul 14 2017	20:20: 8.5	6.78	-73.14	139	2.4	0.5	113	32	LOS SANTOS (SANTANDER)
596	Jul 14 2017	20:25:45.6	3.82	-76.93	18	1.8	0.5	105	18	BUENAVENTURA (VALLE)
597	Jul 14 2017	20:30:36.5	6.72	-73.49	111	1.6	0.4	82	14	EL CARMEN (SANTANDER)
598	Jul 14 2017	21:23:12.4	5.38	-76.65	29	1.3	0.3	277	8	CERTEGUI (CHOCO)
599	Jul 14 2017	22:56: 6.1	5.49	-74.47	17	1.4	0.6	102	15	YACOPI (CUNDINAMARCA)
600	Jul 14 2017	23:39:52.7	6.75	-73.16	153	1.1	0.3	231	8	LOS SANTOS (SANTANDER)
601	Jul 15 2017	00:40:12.2	6.79	-73.13	139	2.2	0.5	113	29	LOS SANTOS (SANTANDER)
602	Jul 15 2017	00:50:55.3	6.89	-73.23	124	1.1	0.1	235	8	BETULIA (SANTANDER)
603	Jul 15 2017	01:29:44.5	5.45	-74.37	Sup	1.6	0.4	87	20	YACOPI (CUNDINAMARCA)
604	Jul 15 2017	01:49:21.3	6.86	-73.34	122	1.7	0.5	109	18	SAN VICENTE DE CHUCURI (SANTANDER)
605	Jul 15 2017	02:36:48.2	5.18	-72.98	Sup	2.2	0.6	68	29	SAN EDUARDO (BOYACA)
606	Jul 15 2017	03:24:15.5	6.81	-73.14	146	2.6	0.5	66	53	LOS SANTOS (SANTANDER)
607	Jul 15 2017	04:05:55.2	7.44	-73.32	120	1.6	0.4	187	17	EL PLAYON (SANTANDER)
608	Jul 15 2017	04:26:39.7	5.26	-74.76	15	1.0	0.3	205	10	HONDA (TOLIMA)
609	Jul 15 2017	04:30: 5.5	5.88	-73.57	127	1.1	0.2	218	7	MONQUIRA (BOYACA)
610	Jul 15 2017	04:50: 9.4	6.38	-73.70	96	1.5	0.4	79	16	SANTA HELENA DEL OPO (SANTANDER)
611	Jul 15 2017	05:36:17.6	7.29	-75.22	12	2.8	0.5	96	40	ANORI (ANTIOQUIA)
612	Jul 15 2017	06:47:33.5	6.77	-73.11	138	1.5	0.5	142	18	LOS SANTOS (SANTANDER)
613	Jul 15 2017	08:10:13.0	6.76	-73.14	153	1.2	0.4	235	9	LOS SANTOS (SANTANDER)
614	Jul 15 2017	08:51: 4.5	2.31	-75.63	17	0.7	0.4	118	9	GIGANTE (HUILA)
615	Jul 15 2017	08:58:10.0	6.77	-73.19	150	0.9	0.4	230	10	ZAPATOCA (SANTANDER)
616	Jul 15 2017	09:03:11.5	6.81	-73.12	145	1.9	0.5	113	28	LOS SANTOS (SANTANDER)
617	Jul 15 2017	09:27:11.3	6.81	-73.14	149	1.4	0.2	136	12	LOS SANTOS (SANTANDER)
618	Jul 15 2017	09:33:58.9	6.71	-73.31	140	1.0	0.3	178	9	GALAN (SANTANDER)
619	Jul 15 2017	09:37: 9.3	6.79	-73.12	148	1.4	0.4	140	16	LOS SANTOS (SANTANDER)
620	Jul 15 2017	09:42: 2.4	6.81	-73.13	146	1.6	0.3	112	20	LOS SANTOS (SANTANDER)
621	Jul 15 2017	10:28:22.7	6.78	-73.13	133	1.6	0.4	113	23	LOS SANTOS (SANTANDER)
622	Jul 15 2017	11:07:58.8	6.52	-73.55	108	1.6	0.4	67	22	EL CARMEN (SANTANDER)
623	Jul 15 2017	12:17:18.9	6.66	-75.89	10	1.1	0.5	175	8	BURITICA (ANTIOQUIA)
624	Jul 15 2017	12:46:31.2	10.66	-73.47	79	1.2	0.2	115	12	PUEBLO BELLO (CESAR)
625	Jul 15 2017	12:48:22.1	6.78	-73.12	152	1.2	0.4	140	12	LOS SANTOS (SANTANDER)
626	Jul 15 2017	13:00: 6.0	12.08	-73.23	Sup	1.9	0.5	240	10	MAR CARIBE
627	Jul 15 2017	13:45: 0.0	6.81	-73.15	141	2.5	0.6	65	47	LOS SANTOS (SANTANDER)
628	Jul 15 2017	14:08: 5.1	6.82	-73.14	144	2.4	0.7	65	42	LOS SANTOS (SANTANDER)
629	Jul 15 2017	14:31:39.1	6.70	-73.28	136	1.3	0.3	236	8	GALAN (SANTANDER)
630	Jul 15 2017	14:59:17.6	11.23	-73.27	18	1.6	0.4	164	9	LA PAZ (CESAR)
631	Jul 15 2017	15:15:32.3	6.81	-73.25	132	1.5	0.2	149	8	ZAPATOCA (SANTANDER)
632	Jul 15 2017	16:21:11.1	6.79	-73.14	142	2.3	0.6	72	36	LOS SANTOS (SANTANDER)
633	Jul 15 2017	17:17:51.0	6.81	-73.12	151	3.4	0.8	67	73	LOS SANTOS (SANTANDER)
634	Jul 15 2017	17:34:25.4	6.80	-73.14	136	1.8	0.3	136	19	LOS SANTOS (SANTANDER)
635	Jul 15 2017	19:36:11.9	5.57	-73.89	119	1.3	0.4	141	14	CALDAS (BOYACA)
636	Jul 15 2017	20:11: 0.5	6.84	-73.16	142	1.5	0.5	131	16	ZAPATOCA (SANTANDER)
637	Jul 15 2017	20:21: 0.5	6.81	-73.39	124	1.2	0.4	157	9	SAN VICENTE DE CHUCURI (SANTANDER)
638	Jul 15 2017	20:45:20.4	6.83	-76.25	Sup	1.6	0.6	162	20	URAMITA (ANTIOQUIA)
639	Jul 15 2017	22:19:44.7	8.48	-73.13	133	1.6	0.3	165	17	SAN CALIXTO (N.SANTANDER)
640	Jul 15 2017	23:29:17.6	6.79	-73.16	139	1.2	0.3	134	10	LOS SANTOS (SANTANDER)
641	Jul 15 2017	23:41:42.8	3.38	-75.75	Sup	1.2	0.6	101	15	RIOBLANCO (TOLIMA)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
642	Jul 16 2017	00:04:55.0	5.10	-76.26	93	1.7	0.6	99	23	SAN JOSE DEL PALMAR (CHOCO)
643	Jul 16 2017	00:07:28.8	6.69	-73.29	138	0.7	0.2	178	8	GALAN (SANTANDER)
644	Jul 16 2017	00:19: 5.9	6.79	-73.12	143	1.8	0.5	114	22	LOS SANTOS (SANTANDER)
645	Jul 16 2017	00:33:23.9	7.12	-73.34	99	1.0	0.2	255	8	LEBRIJA (SANTANDER)
646	Jul 16 2017	00:42:54.4	6.76	-73.12	141	1.7	0.5	115	22	LOS SANTOS (SANTANDER)
647	Jul 16 2017	01:17: 6.5	6.06	-74.33	32	1.1	0.1	130	8	PUERTO BOYACA (BOYACA)
648	Jul 16 2017	01:31:53.9	6.98	-73.10	136	1.2	0.3	287	8	PIEDRECUESTA (SANTANDER)
649	Jul 16 2017	01:38:34.5	6.83	-73.13	140	1.3	0.4	137	12	LOS SANTOS (SANTANDER)
650	Jul 16 2017	01:45:54.4	2.14	-76.00	Sup	1.7	0.5	88	24	LA ARGENTINA (HUILA)
651	Jul 16 2017	02:36:25.7	5.98	-73.74	104	0.7	0.2	152	8	BOLIVAR (SANTANDER)
652	Jul 16 2017	03:24:15.5	6.86	-73.07	144	0.8	0.3	250	8	LOS SANTOS (SANTANDER)
653	Jul 16 2017	03:40:46.1	6.68	-73.26	128	0.8	0.2	187	8	GALAN (SANTANDER)
654	Jul 16 2017	05:03:10.8	5.31	-72.57	Sup	1.0	0.6	184	10	PAJARITO (BOYACA)
655	Jul 16 2017	05:15:51.9	6.81	-76.24	Sup	2.1	0.7	161	32	URAMITA (ANTIOQUIA)
656	Jul 16 2017	05:21:57.5	8.01	-73.16	144	1.1	0.3	253	8	ABREGO (N.SANTANDER)
657	Jul 16 2017	05:28:22.0	6.76	-73.17	154	1.0	0.3	232	8	LOS SANTOS (SANTANDER)
658	Jul 16 2017	05:30:37.0	5.76	-73.76	112	1.3	0.4	170	16	SABOYA (BOYACA)
659	Jul 16 2017	05:44:27.1	5.30	-76.80	13	1.1	0.7	254	8	EL CANTON DEL SAN PABL (CHOCO)
660	Jul 16 2017	05:46:26.8	6.26	-74.80	18	0.7	0.5	133	11	CARACOLI (ANTIOQUIA)
661	Jul 16 2017	05:59:59.3	6.28	-74.80	13	1.3	0.5	95	21	CARACOLI (ANTIOQUIA)
662	Jul 16 2017	06:09: 7.7	6.80	-73.18	145	0.8	0.2	131	10	ZAPATOCA (SANTANDER)
663	Jul 16 2017	06:19:48.6	2.12	-75.70	13	1.5	0.5	85	24	ALTAMIRA (HUILA)
664	Jul 16 2017	06:32:28.5	4.70	-76.48	48	0.9	0.4	151	10	SIPI (CHOCO)
665	Jul 16 2017	06:46: 5.2	7.04	-71.85	Sup	1.2	0.4	298	12	FRONTERA CON VENEZUELA
666	Jul 16 2017	06:55:50.9	0.70	-77.83	Sup	1.5	0.5	130	9	FRONTERA CON ECUADOR
667	Jul 16 2017	06:58:37.6	5.70	-74.55	17	0.5	0.3	157	9	PUERTO TRIUNFO (ANTIOQUIA)
668	Jul 16 2017	07:25:19.8	6.76	-73.19	153	1.0	0.4	229	10	ZAPATOCA (SANTANDER)
669	Jul 16 2017	07:33:21.9	7.14	-73.35	112	1.0	0.4	150	12	LEBRIJA (SANTANDER)
670	Jul 16 2017	07:58:14.6	6.77	-73.12	142	1.7	0.5	140	20	LOS SANTOS (SANTANDER)
671	Jul 16 2017	08:10:41.9	6.80	-73.15	145	2.0	0.5	111	22	LOS SANTOS (SANTANDER)
672	Jul 16 2017	08:25:50.0	6.77	-73.15	142	1.7	0.4	112	22	LOS SANTOS (SANTANDER)
673	Jul 16 2017	08:30: 7.0	6.77	-73.10	145	0.7	0.1	142	9	LOS SANTOS (SANTANDER)
674	Jul 16 2017	09:05:12.2	7.45	-73.20	134	2.2	0.4	142	31	EL PLAYON (SANTANDER)
675	Jul 16 2017	09:33:21.2	6.73	-73.15	143	1.0	0.5	139	12	LOS SANTOS (SANTANDER)
676	Jul 16 2017	09:40: 9.7	7.40	-73.19	131	1.3	0.2	184	7	EL PLAYON (SANTANDER)
677	Jul 16 2017	09:54: 9.5	4.66	-76.19	98	2.8	0.6	55	65	VERSALLES (VALLE)
678	Jul 16 2017	10:02:57.7	10.67	-73.72	56	1.6	0.5	104	16	PUEBLO BELLO (CESAR)
679	Jul 16 2017	10:10:35.3	7.61	-73.29	128	1.7	0.4	107	24	LA ESPERANZA (N.SANTANDER)
680	Jul 16 2017	10:13:36.6	6.77	-73.21	133	0.8	0.3	227	8	ZAPATOCA (SANTANDER)
681	Jul 16 2017	10:33: 1.5	2.40	-75.49	24	1.0	0.5	170	9	GIGANTE (HUILA)
682	Jul 16 2017	10:58: 6.2	6.78	-73.17	150	0.8	0.2	134	9	LOS SANTOS (SANTANDER)
683	Jul 16 2017	11:27:46.4	6.10	-74.19	Sup	1.7	0.6	67	21	CIMITARRA (SANTANDER)
684	Jul 16 2017	11:59:34.1	6.81	-73.22	140	1.5	0.2	125	10	ZAPATOCA (SANTANDER)
685	Jul 16 2017	13:48:44.7	6.74	-73.22	150	1.0	0.5	218	8	VILLANUEVA (SANTANDER)
686	Jul 16 2017	14:03:17.8	5.04	-76.23	54	1.5	0.4	177	11	SAN JOSE DEL PALMAR (CHOCO)
687	Jul 16 2017	14:08:31.9	6.74	-73.11	140	1.7	0.5	144	21	LOS SANTOS (SANTANDER)
688	Jul 16 2017	14:38: 4.2	6.31	-73.90	16	1.0	0.5	81	14	CIMITARRA (SANTANDER)
689	Jul 16 2017	15:04:29.9	6.80	-73.15	139	1.8	0.3	111	18	LOS SANTOS (SANTANDER)
690	Jul 16 2017	15:26:31.8	2.08	-75.72	6	0.7	0.4	136	8	ALTAMIRA (HUILA)
691	Jul 16 2017	16:18:30.9	6.74	-73.01	126	1.0	0.4	127	8	CEPITA (SANTANDER)
692	Jul 16 2017	16:27:42.8	7.27	-77.05	20	1.6	0.1	137	8	RIOSUCIO (CHOCO)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
693	Jul 16 2017	16:50:48.8	6.78	-73.14	144	2.3	0.4	66	35	LOS SANTOS (SANTANDER)
694	Jul 16 2017	16:51:47.0	6.77	-73.13	143	1.7	0.3	139	9	LOS SANTOS (SANTANDER)
695	Jul 16 2017	19:48:51.3	8.36	-73.16	132	1.6	0.2	160	10	HACARI (N.SANTANDER)
696	Jul 16 2017	21:09:59.4	6.80	-73.13	144	1.6	0.4	138	14	LOS SANTOS (SANTANDER)
697	Jul 16 2017	22:28:26.0	6.82	-73.15	140	2.5	0.6	110	29	LOS SANTOS (SANTANDER)
698	Jul 16 2017	23:12:42.4	6.79	-73.16	144	1.3	0.4	134	12	LOS SANTOS (SANTANDER)
699	Jul 16 2017	23:14:39.4	6.29	-74.81	9	1.1	0.4	96	10	CARACOLI (ANTIOQUIA)
700	Jul 16 2017	23:30:51.7	3.99	-71.56	Sup	2.0	0.7	261	10	PUERTO GAITAN (META)
701	Jul 16 2017	23:33: 0.0	6.69	-73.54	105	1.7	0.5	75	16	EL CARMEN (SANTANDER)
702	Jul 16 2017	23:54:15.7	1.54	-78.13	57	2.1	0.5	89	25	BARBACOAS (NARINO)
703	Jul 16 2017	23:56: 7.0	6.78	-73.15	141	1.4	0.4	111	13	LOS SANTOS (SANTANDER)
704	Jul 16 2017	23:59:31.2	5.38	-76.16	Sup	1.6	0.6	183	14	PUEBLO RICO (RISARALDA)
705	Jul 17 2017	00:23:17.3	6.79	-73.13	148	2.1	0.4	113	32	LOS SANTOS (SANTANDER)
706	Jul 17 2017	00:38:49.4	6.27	-72.42	8	1.6	0.4	186	14	CHITA (BOYACA)
707	Jul 17 2017	01:08: 0.9	6.74	-73.16	148	1.5	0.3	137	13	LOS SANTOS (SANTANDER)
708	Jul 17 2017	02:03:31.0	5.39	-73.69	142	1.4	0.3	254	8	GUACHETA (CUNDINAMARCA)
709	Jul 17 2017	02:25:20.7	6.31	-73.35	142	3.0	0.7	53	48	GUAPOTA (SANTANDER)
710	Jul 17 2017	02:34:18.3	6.90	-76.65	Sup	1.8	0.6	134	18	MURINDO (ANTIOQUIA)
711	Jul 17 2017	02:50:33.1	6.75	-73.14	144	1.5	0.5	138	14	LOS SANTOS (SANTANDER)
712	Jul 17 2017	02:58:40.5	6.41	-73.59	107	0.8	0.2	143	8	SANTA HELENA DEL OPO (SANTANDER)
713	Jul 17 2017	03:09:42.2	7.32	-77.01	64	1.7	0.3	188	14	RIOSUCIO (CHOCO)
714	Jul 17 2017	03:55:32.4	6.74	-73.11	143	2.0	0.3	117	24	LOS SANTOS (SANTANDER)
715	Jul 17 2017	04:13:46.2	6.77	-73.18	150	1.1	0.4	232	8	LOS SANTOS (SANTANDER)
716	Jul 17 2017	04:46:56.2	6.80	-73.14	148	1.3	0.4	136	12	LOS SANTOS (SANTANDER)
717	Jul 17 2017	06:21:27.7	8.66	-74.00	86	1.4	0.3	135	14	RIOVIEJO (BOLIVAR)
718	Jul 17 2017	06:22:48.3	6.66	-73.16	145	1.1	0.4	226	10	VILLANUEVA (SANTANDER)
719	Jul 17 2017	07:11:55.9	2.21	-75.95	Sup	1.2	0.2	131	14	LA ARGENTINA (HUILA)
720	Jul 17 2017	07:14:41.6	2.21	-75.96	Sup	0.7	0.3	153	10	LA ARGENTINA (HUILA)
721	Jul 17 2017	07:21: 7.9	2.21	-75.95	Sup	1.2	0.3	154	12	LA ARGENTINA (HUILA)
722	Jul 17 2017	07:43: 9.4	6.29	-77.82	Sup	2.2	0.7	230	18	O. PACIFICO NORTE
723	Jul 17 2017	07:43:31.0	6.44	-77.62	12	2.4	0.3	209	22	O. PACIFICO NORTE
724	Jul 17 2017	07:56:57.8	6.83	-76.28	Sup	1.8	0.5	203	22	URAMITA (ANTIOQUIA)
725	Jul 17 2017	08:43:36.3	6.49	-77.47	Sup	1.8	0.5	167	12	O. PACIFICO NORTE
726	Jul 17 2017	08:45:53.8	6.77	-73.15	144	1.7	0.3	112	18	LOS SANTOS (SANTANDER)
727	Jul 17 2017	09:08:19.2	6.67	-73.19	144	1.4	0.3	221	9	VILLANUEVA (SANTANDER)
728	Jul 17 2017	09:17:44.3	2.93	-76.84	97	1.1	0.4	182	10	SUAREZ (CAUCA)
729	Jul 17 2017	10:09:31.1	6.75	-73.09	146	1.6	0.3	240	7	LOS SANTOS (SANTANDER)
730	Jul 17 2017	10:18:45.0	6.78	-73.18	146	1.3	0.3	241	10	LOS SANTOS (SANTANDER)
731	Jul 17 2017	10:45:34.6	6.75	-73.09	134	1.4	0.5	239	16	LOS SANTOS (SANTANDER)
732	Jul 17 2017	11:21:26.1	6.58	-73.32	25	1.8	0.5	77	14	HATO (SANTANDER)
733	Jul 17 2017	11:29:41.5	6.52	-73.46	112	1.1	0.3	98	10	SIMACOTA (SANTANDER)
734	Jul 17 2017	11:30:43.2	6.76	-73.16	142	1.1	0.4	232	9	LOS SANTOS (SANTANDER)
735	Jul 17 2017	11:33:51.8	6.77	-73.14	139	1.2	0.3	235	10	LOS SANTOS (SANTANDER)
736	Jul 17 2017	11:37:23.7	6.76	-73.06	143	2.1	0.4	221	18	LOS SANTOS (SANTANDER)
737	Jul 17 2017	11:47: 0.3	6.75	-73.16	147	1.3	0.2	241	7	LOS SANTOS (SANTANDER)
738	Jul 17 2017	12:00:41.7	6.69	-73.18	144	1.2	0.3	136	10	VILLANUEVA (SANTANDER)
739	Jul 17 2017	12:06:35.1	6.75	-73.16	147	1.7	0.5	112	21	LOS SANTOS (SANTANDER)
740	Jul 17 2017	12:15:25.1	6.90	-74.25	55	2.0	0.5	86	24	PUERTO PARRA (SANTANDER)
741	Jul 17 2017	12:23:11.6	6.76	-73.15	145	1.8	0.4	112	13	LOS SANTOS (SANTANDER)
742	Jul 17 2017	13:06:36.8	1.94	-75.96	Sup	1.2	0.4	111	15	TIMANA (HUILA)



Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
743	Jul 17 2017	14:10:22.0	6.76	-74.51	19	1.0	0.5	123	8	VEGACHI (ANTIOQUIA)
744	Jul 17 2017	14:26:56.8	6.78	-73.13	134	1.2	0.4	244	8	LOS SANTOS (SANTANDER)
745	Jul 17 2017	15:15:46.2	2.23	-75.68	Sup	3.8*	0.5	72	74	GARZON (HUILA)
746	Jul 17 2017	15:19:36.2	6.48	-77.50	22	2.5	0.3	176	8	O. PACIFICO NORTE
747	Jul 17 2017	15:48:58.5	6.86	-73.14	142	1.4	0.4	222	9	LOS SANTOS (SANTANDER)
748	Jul 17 2017	16:22:36.3	5.63	-78.06	32	2.7	0.5	214	18	O. PACIFICO NORTE
749	Jul 17 2017	16:52: 3.3	7.08	-73.12	160	1.9	0.4	254	14	BUCARAMANGA (SANTANDER)
750	Jul 17 2017	17:13:47.2	6.08	-73.74	102	1.4	0.4	110	13	EL PENON (SANTANDER)
751	Jul 17 2017	17:15:58.4	7.17	-76.19	Sup	1.6	0.5	224	14	DABEIBA (ANTIOQUIA)
752	Jul 17 2017	17:53:23.5	6.81	-73.14	142	1.8	0.5	215	17	LOS SANTOS (SANTANDER)
753	Jul 17 2017	20:09:51.4	2.57	-75.69	Sup	1.3	0.4	91	14	IQUIRA (HUILA)
754	Jul 17 2017	20:32:56.2	6.81	-73.17	138	2.0	0.5	109	21	LOS SANTOS (SANTANDER)
755	Jul 17 2017	23:45: 1.3	6.77	-73.13	127	1.5	0.3	139	18	LOS SANTOS (SANTANDER)
756	Jul 17 2017	23:56:54.6	3.51	-74.19	Sup	1.9	0.6	94	28	LEJANIAS (META)
757	Jul 18 2017	02:41: 7.6	6.77	-73.13	140	1.9	0.5	114	25	LOS SANTOS (SANTANDER)
758	Jul 18 2017	03:02:15.8	6.75	-73.17	144	1.3	0.3	230	10	LOS SANTOS (SANTANDER)
759	Jul 18 2017	03:16:45.6	6.74	-73.22	142	1.6	0.4	202	17	ZAPATOCA (SANTANDER)
760	Jul 18 2017	04:31:38.2	6.78	-73.15	149	1.6	0.3	235	12	LOS SANTOS (SANTANDER)
761	Jul 18 2017	04:35: 3.3	5.93	-73.79	106	0.9	0.3	181	8	SUCRE (SANTANDER)
762	Jul 18 2017	04:48:25.9	6.79	-73.12	150	3.4	0.5	67	65	LOS SANTOS (SANTANDER)
763	Jul 18 2017	04:53:27.3	2.89	-78.08	6	1.7	0.6	165	12	O. PACIFICO SUR
764	Jul 18 2017	05:24:11.4	6.80	-73.15	150	1.5	0.4	237	12	LOS SANTOS (SANTANDER)
765	Jul 18 2017	05:35:12.8	6.74	-73.18	138	1.7	0.6	205	16	VILLANUEVA (SANTANDER)
766	Jul 18 2017	05:44: 3.2	5.17	-77.78	29	1.7	0.3	270	12	O. PACIFICO CENTRO
767	Jul 18 2017	05:48:34.9	5.26	-72.95	Sup	1.0	0.4	169	8	CHAMEZA (CASANARE)
768	Jul 18 2017	06:03:20.8	5.25	-73.76	150	2.3	0.6	59	35	CUCUNUBA (CUNDINAMARCA)
769	Jul 18 2017	06:06:56.2	7.09	-73.72	17	1.8	0.4	110	14	BARRANCABERMEJA (SANTANDER)
770	Jul 18 2017	06:13:47.8	6.75	-73.14	140	1.9	0.4	114	25	LOS SANTOS (SANTANDER)
771	Jul 18 2017	06:40:12.9	6.63	-73.24	148	1.1	0.1	187	6	BARICHARA (SANTANDER)
772	Jul 18 2017	07:21:34.1	6.83	-73.11	156	1.2	0.2	261	9	LOS SANTOS (SANTANDER)
773	Jul 18 2017	07:34: 5.4	6.80	-73.17	144	1.3	0.3	235	12	LOS SANTOS (SANTANDER)
774	Jul 18 2017	07:38:31.1	6.84	-73.13	134	1.4	0.3	242	12	LOS SANTOS (SANTANDER)
775	Jul 18 2017	07:49: 1.7	6.72	-73.17	144	1.4	0.4	229	11	VILLANUEVA (SANTANDER)
776	Jul 18 2017	07:56: 0.1	0.69	-77.86	Sup	1.8	0.3	171	10	FRONTERA CON ECUADOR
777	Jul 18 2017	08:16:22.3	6.83	-73.14	151	1.8	0.5	185	21	LOS SANTOS (SANTANDER)
778	Jul 18 2017	08:34:18.6	6.73	-73.19	152	1.3	0.3	226	11	VILLANUEVA (SANTANDER)
779	Jul 18 2017	08:34:18.8	6.72	-73.19	152	1.2	0.3	225	10	VILLANUEVA (SANTANDER)
780	Jul 18 2017	08:47:21.6	6.67	-73.27	130	1.6	0.2	91	16	GALAN (SANTANDER)
781	Jul 18 2017	09:02: 7.3	6.18	-73.66	107	1.4	0.3	96	13	LA PAZ (SANTANDER)
782	Jul 18 2017	09:04: 3.9	5.94	-73.78	112	1.4	0.4	131	12	SUCRE (SANTANDER)
783	Jul 18 2017	09:36:10.2	9.98	-73.55	88	1.6	0.3	129	12	AGUSTIN CODAZZI (CESAR)
784	Jul 18 2017	09:47: 8.9	6.81	-73.18	143	1.4	0.3	132	11	ZAPATOCA (SANTANDER)
785	Jul 18 2017	10:00:47.7	6.09	-74.15	85	1.3	0.1	106	8	CIMITARRA (SANTANDER)
786	Jul 18 2017	10:14:41.3	5.62	-74.14	105	1.5	0.5	168	18	OTANCHE (BOYACA)
787	Jul 18 2017	10:34:51.6	7.35	-73.21	126	1.8	0.3	93	21	RIONEGRO (SANTANDER)
788	Jul 18 2017	10:47:53.3	1.98	-75.93	Sup	1.6	0.2	138	12	TIMANA (HUILA)
789	Jul 18 2017	12:03:19.5	7.37	-73.19	124	1.8	0.3	261	10	EL PLAYON (SANTANDER)
790	Jul 18 2017	12:23:39.2	6.76	-73.16	146	1.2	0.2	233	8	LOS SANTOS (SANTANDER)
791	Jul 18 2017	12:52:29.9	6.79	-73.13	147	2.3	0.5	113	27	LOS SANTOS (SANTANDER)

\*Magnitud de Momento (Mw)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
792	Jul 18 2017	12:58: 9.8	3.96	-75.50	Sup	1.6	0.8	174	13	SAN ANTONIO (TOLIMA)
793	Jul 18 2017	13:06:49.8	6.77	-73.14	143	1.8	0.6	113	17	LOS SANTOS (SANTANDER)
794	Jul 18 2017	13:21:49.9	6.08	-73.56	122	1.5	0.4	110	13	GUEPSA (SANTANDER)
795	Jul 18 2017	13:28:19.6	3.47	-74.19	Sup	1.7	0.4	127	12	MESETAS (META)
796	Jul 18 2017	13:35:30.7	6.81	-73.17	143	2.4	0.4	109	37	LOS SANTOS (SANTANDER)
797	Jul 18 2017	14:07: 5.5	6.83	-73.15	148	3.5	0.6	65	69	LOS SANTOS (SANTANDER)
798	Jul 18 2017	14:17:42.4	6.67	-73.18	136	1.6	0.5	223	14	VILLANUEVA (SANTANDER)
799	Jul 18 2017	14:46:30.4	6.86	-73.14	142	2.7	0.6	65	50	LOS SANTOS (SANTANDER)
800	Jul 18 2017	15:35:32.6	6.74	-73.15	140	1.8	0.4	232	15	LOS SANTOS (SANTANDER)
801	Jul 18 2017	16:10:15.0	6.75	-73.19	142	1.4	0.2	238	7	VILLANUEVA (SANTANDER)
802	Jul 18 2017	16:33: 2.0	6.81	-73.20	142	1.2	0.1	240	7	ZAPATOCA (SANTANDER)
803	Jul 18 2017	17:13:45.9	6.80	-73.14	135	1.4	0.4	238	11	LOS SANTOS (SANTANDER)
804	Jul 18 2017	17:59:26.8	6.81	-73.20	139	1.6	0.4	146	14	ZAPATOCA (SANTANDER)
805	Jul 18 2017	18:12: 7.7	6.46	-73.75	86	2.0	0.4	101	14	SANTA HELENA DEL OPO (SANTANDER)
806	Jul 18 2017	18:56:47.3	5.21	-73.73	141	1.6	0.5	107	15	CUCUNUBA (CUNDINAMARCA)
807	Jul 18 2017	19:37: 1.8	7.40	-73.15	127	1.7	0.2	264	10	EL PLAYON (SANTANDER)
808	Jul 18 2017	19:44:25.0	4.41	-73.61	Sup	2.4	0.5	67	19	SAN JUANITO (META)
809	Jul 18 2017	23:10:15.2	6.04	-77.31	Sup	1.9	0.8	194	12	BAHIA SOLANO (CHOCO)
810	Jul 19 2017	02:27: 9.0	4.47	-75.67	32	0.8	0.4	120	8	ARMENIA (QUINDIO)
811	Jul 19 2017	02:28:56.3	6.86	-73.22	146	1.3	0.4	275	7	ZAPATOCA (SANTANDER)
812	Jul 19 2017	03:54:14.2	5.43	-73.79	141	2.7	0.5	85	51	FUQUENE (CUNDINAMARCA)
813	Jul 19 2017	04:07:17.8	6.83	-73.16	145	2.7	0.4	111	37	LOS SANTOS (SANTANDER)
814	Jul 19 2017	04:49: 9.4	6.81	-73.17	136	2.3	0.5	132	28	ZAPATOCA (SANTANDER)
815	Jul 19 2017	04:51:41.0	7.02	-73.48	107	1.2	0.3	262	10	SAN VICENTE DE CHUCURI (SANTANDER)
816	Jul 19 2017	05:05:38.8	6.83	-73.16	136	1.4	0.4	243	10	LOS SANTOS (SANTANDER)
817	Jul 19 2017	05:40:18.1	6.79	-73.12	139	1.9	0.5	114	23	LOS SANTOS (SANTANDER)
818	Jul 19 2017	06:00:34.8	6.83	-73.16	146	2.2	0.4	109	33	LOS SANTOS (SANTANDER)
819	Jul 19 2017	06:59:55.3	3.70	-76.88	21	1.7	0.5	112	14	DAGUA (VALLE)
820	Jul 19 2017	07:59:12.8	6.87	-73.18	140	1.3	0.2	279	7	BETULIA (SANTANDER)
821	Jul 19 2017	08:22:47.6	6.74	-73.12	145	1.4	0.1	244	10	LOS SANTOS (SANTANDER)
822	Jul 19 2017	08:45:48.7	6.82	-73.16	142	1.4	0.3	243	10	LOS SANTOS (SANTANDER)
823	Jul 19 2017	09:21:38.9	5.12	-75.97	105	1.8	0.3	148	20	APIA (RISARALDA)
824	Jul 19 2017	09:41:10.6	6.79	-73.18	136	1.2	0.3	241	7	ZAPATOCA (SANTANDER)
825	Jul 19 2017	11:37:56.1	6.88	-73.17	145	3.3	0.5	62	62	BETULIA (SANTANDER)
826	Jul 19 2017	13:17:45.2	5.28	-73.71	142	1.4	0.3	230	10	LENGUAZAQUE (CUNDINAMARCA)
827	Jul 19 2017	13:27: 1.7	5.30	-72.96	Sup	2.8	0.6	138	32	SAN EDUARDO (BOYACA)
828	Jul 19 2017	17:00:45.7	11.85	-72.87	32	2.1	0.3	217	8	MAR CARIBE
829	Jul 19 2017	17:47:11.1	7.08	-73.35	114	1.1	0.3	143	11	LEBRIJA (SANTANDER)
830	Jul 19 2017	17:49: 7.1	6.67	-73.18	150	1.7	0.2	223	9	VILLANUEVA (SANTANDER)
831	Jul 19 2017	18:37:44.5	11.09	-73.98	9	2.6	0.8	147	18	PUEBLO BELLO (CESAR)
832	Jul 19 2017	18:56:55.0	7.04	-71.72	Sup	3.3	0.5	260	39	FRONTERA CON VENEZUELA
833	Jul 19 2017	19:54:38.5	2.32	-75.65	Sup	2.8	0.4	115	13	GIGANTE (HUILA)
834	Jul 19 2017	20:05:41.6	10.56	-72.82	109	1.8	0.4	172	10	MANAURE BALCON CESAR (CESAR)
835	Jul 19 2017	21:14:26.3	5.57	-75.97	19	2.1	0.5	129	22	ANDES (ANTIOQUIA)
836	Jul 19 2017	21:49:59.3	6.76	-73.16	137	1.8	0.4	111	20	LOS SANTOS (SANTANDER)
837	Jul 19 2017	22:34:30.2	6.79	-73.27	138	1.3	0.4	192	8	ZAPATOCA (SANTANDER)
838	Jul 19 2017	23:46:15.7	7.06	-77.10	19	1.8	0.4	150	17	MURINDO (ANTIOQUIA)
839	Jul 20 2017	01:17:16.0	6.78	-73.14	141	2.3	0.5	113	30	LOS SANTOS (SANTANDER)
840	Jul 20 2017	03:00:40.6	7.26	-73.32	122	1.7	0.4	249	11	RIONEGRO (SANTANDER)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
841	Jul 20 2017	03:40:59.0	6.71	-73.07	150	1.4	0.4	239	7	JORDAN (SANTANDER)
842	Jul 20 2017	04:14:23.3	5.01	-76.24	98	1.1	0.3	173	8	SAN JOSE DEL PALMAR (CHOCO)
843	Jul 20 2017	04:47:31.3	6.75	-73.19	147	1.1	0.4	228	8	VILLANUEVA (SANTANDER)
844	Jul 20 2017	04:52: 4.8	6.78	-73.14	148	1.7	0.4	138	14	LOS SANTOS (SANTANDER)
845	Jul 20 2017	04:55:44.1	5.93	-73.57	127	1.2	0.4	145	10	BARBOSA (SANTANDER)
846	Jul 20 2017	05:14:52.4	5.39	-73.75	132	1.3	0.5	138	18	FUQUENE (CUNDINAMARCA)
847	Jul 20 2017	06:05:16.8	6.76	-73.16	147	1.5	0.3	232	13	LOS SANTOS (SANTANDER)
848	Jul 20 2017	06:18:26.0	4.07	-75.56	Sup	1.9	0.4	59	32	RONCESVALLES (TOLIMA)
849	Jul 20 2017	06:59:39.9	6.73	-73.20	134	1.1	0.2	237	8	VILLANUEVA (SANTANDER)
850	Jul 20 2017	07:24:38.7	6.81	-73.15	149	1.4	0.4	237	12	LOS SANTOS (SANTANDER)
851	Jul 20 2017	07:48:46.8	6.81	-73.14	146	1.8	0.5	112	28	LOS SANTOS (SANTANDER)
852	Jul 20 2017	07:52:40.1	4.37	-76.76	63	1.4	0.5	149	17	SIPI (CHOCO)
853	Jul 20 2017	08:03:25.0	4.08	-75.56	Sup	1.4	0.4	109	20	RONCESVALLES (TOLIMA)
854	Jul 20 2017	08:12: 2.8	6.74	-76.72	15	1.9	0.6	120	28	VIGIA DEL FUERTE (ANTIOQUIA)
855	Jul 20 2017	08:28:52.1	6.22	-73.14	180	2.1	0.5	115	36	CHARALA (SANTANDER)
856	Jul 20 2017	09:38:46.0	6.80	-73.11	140	1.7	0.3	114	24	LOS SANTOS (SANTANDER)
857	Jul 20 2017	10:09:49.2	8.65	-73.58	90	1.9	0.2	149	9	PELAYA (CESAR)
858	Jul 20 2017	10:34:50.3	6.76	-73.12	135	1.8	0.5	140	15	LOS SANTOS (SANTANDER)
859	Jul 20 2017	10:52: 7.8	6.78	-73.14	143	1.4	0.4	138	14	LOS SANTOS (SANTANDER)
860	Jul 20 2017	11:06:34.9	1.92	-79.26	13	2.8	0.6	239	34	O. PACIFICO SUR
861	Jul 20 2017	11:13:27.2	10.75	-73.30	85	2.2	0.3	120	8	LA PAZ (CESAR)
862	Jul 20 2017	11:55: 9.3	6.78	-73.16	137	2.1	0.5	111	24	LOS SANTOS (SANTANDER)
863	Jul 20 2017	12:16:38.0	6.72	-73.19	134	1.2	0.3	133	8	VILLANUEVA (SANTANDER)
864	Jul 20 2017	13:41:22.4	5.57	-72.63	Sup	2.7	0.6	126	34	LABRANZAGRANDE (BOYACA)
865	Jul 20 2017	14:03: 0.5	6.86	-73.18	130	1.9	0.4	110	24	ZAPATOCA (SANTANDER)
866	Jul 20 2017	14:43: 4.0	7.25	-75.98	Sup	1.8	0.4	178	20	ITUANGO (ANTIOQUIA)
867	Jul 20 2017	14:57: 5.7	6.80	-73.20	143	1.2	0.2	145	8	ZAPATOCA (SANTANDER)
868	Jul 20 2017	15:56:24.9	6.78	-73.15	148	1.1	0.3	140	8	LOS SANTOS (SANTANDER)
869	Jul 20 2017	17:06:15.6	6.96	-73.18	145	1.4	0.2	125	9	GIRON (SANTANDER)
870	Jul 20 2017	17:27:19.3	6.10	-72.96	Sup	2.0	0.7	99	17	BELEN (BOYACA)
871	Jul 20 2017	18:50: 5.4	6.83	-73.15	145	2.5	0.5	64	32	LOS SANTOS (SANTANDER)
872	Jul 20 2017	19:33:51.1	6.83	-73.31	115	1.4	0.3	106	11	ZAPATOCA (SANTANDER)
873	Jul 20 2017	20:19:12.6	6.77	-73.12	138	2.2	0.4	115	28	LOS SANTOS (SANTANDER)
874	Jul 20 2017	22:08:52.5	5.92	-73.89	100	1.6	0.4	107	22	LA BELLEZA (SANTANDER)
875	Jul 20 2017	23:07:35.3	7.15	-74.46	12	1.6	0.6	134	20	SEGOVIA (ANTIOQUIA)
876	Jul 20 2017	23:24:51.1	7.87	-74.55	25	1.5	0.5	230	8	NECHI (ANTIOQUIA)
877	Jul 20 2017	23:42:41.8	6.77	-73.14	144	1.4	0.3	236	8	LOS SANTOS (SANTANDER)
878	Jul 20 2017	23:50:52.4	1.31	-76.79	Sup	1.7	0.6	131	22	SAN FRANCISCO (PUTUMAYO)
879	Jul 21 2017	00:21:36.5	6.80	-73.12	148	2.1	0.4	113	26	LOS SANTOS (SANTANDER)
880	Jul 21 2017	00:50:52.4	3.89	-76.56	121	1.8	0.5	97	23	RESTREPO (VALLE)
881	Jul 21 2017	01:40: 0.2	6.76	-73.13	151	1.4	0.3	236	10	LOS SANTOS (SANTANDER)
882	Jul 21 2017	01:53:22.1	5.80	-75.92	50	1.5	0.5	102	11	HISPANIA (ANTIOQUIA)
883	Jul 21 2017	03:47:39.2	6.76	-73.15	154	1.2	0.3	249	7	LOS SANTOS (SANTANDER)
884	Jul 21 2017	03:52:24.3	7.64	-73.98	Sup	1.7	0.5	203	12	SAN PABLO (BOLIVAR)
885	Jul 21 2017	03:58:39.2	1.65	-78.18	39	2.2	0.4	158	26	BARBACOAS (NARINO)
886	Jul 21 2017	05:32:26.2	6.77	-73.40	124	1.3	0.2	172	10	SAN VICENTE DE CHUCURI (SANTANDER)
887	Jul 21 2017	05:37: 6.7	6.81	-73.15	146	2.5	0.5	103	42	LOS SANTOS (SANTANDER)
888	Jul 21 2017	06:52:38.0	6.77	-73.16	147	1.5	0.3	135	14	LOS SANTOS (SANTANDER)
889	Jul 21 2017	07:24:30.3	6.69	-73.18	146	1.5	0.4	225	10	VILLANUEVA (SANTANDER)
890	Jul 21 2017	07:45:49.5	6.76	-73.11	145	1.4	0.5	142	12	LOS SANTOS (SANTANDER)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
891	Jul 21 2017	09:03:44.8	3.87	-76.04	12	1.6	0.3	118	12	SAN PEDRO (VALLE)
892	Jul 21 2017	10:19: 6.9	4.79	-76.15	98	1.6	0.4	75	14	ARGELIA (VALLE)
893	Jul 21 2017	10:19:14.7	6.77	-73.19	135	1.3	0.4	230	10	ZAPATOCA (SANTANDER)
894	Jul 21 2017	10:35:39.4	6.77	-73.09	144	1.6	0.3	214	17	LOS SANTOS (SANTANDER)
895	Jul 21 2017	10:44:32.0	6.78	-73.15	145	1.8	0.3	112	23	LOS SANTOS (SANTANDER)
896	Jul 21 2017	11:41:25.9	4.82	-76.14	106	1.6	0.4	85	15	ARGELIA (VALLE)
897	Jul 21 2017	12:09:31.5	5.33	-73.89	110	1.5	0.1	280	7	CARMEN DE CARUPA (CUNDINAMARCA)
898	Jul 21 2017	13:49:28.8	1.69	-76.22	100	1.9	0.4	160	13	PALESTINA (HUILA)
899	Jul 21 2017	13:50:11.1	6.85	-73.18	146	1.9	0.1	249	7	ZAPATOCA (SANTANDER)
900	Jul 21 2017	14:27:32.4	6.87	-73.38	106	2.2	0.4	110	22	SAN VICENTE DE CHUCURI (SANTANDER)
901	Jul 21 2017	15:24:31.2	6.67	-73.22	149	1.6	0.4	200	8	BARICHARA (SANTANDER)
902	Jul 21 2017	15:59:53.5	6.82	-73.12	145	1.9	0.3	138	18	LOS SANTOS (SANTANDER)
903	Jul 21 2017	16:02:54.9	6.36	-77.68	24	2.8	0.4	234	9	O. PACIFICO NORTE
904	Jul 21 2017	16:18: 5.9	6.66	-73.21	132	1.1	0.3	221	7	BARICHARA (SANTANDER)
905	Jul 21 2017	16:49:39.7	6.75	-73.09	140	1.6	0.5	239	10	LOS SANTOS (SANTANDER)
906	Jul 21 2017	19:20:30.2	6.48	-77.47	Sup	2.0	0.5	166	22	O. PACIFICO NORTE
907	Jul 21 2017	19:25:18.6	5.04	-74.62	18	1.4	0.2	167	10	GUADUAS (CUNDINAMARCA)
908	Jul 21 2017	20:12:44.0	6.82	-73.17	143	1.9	0.4	253	15	ZAPATOCA (SANTANDER)
909	Jul 21 2017	21:30:30.7	6.55	-73.54	111	1.8	0.4	101	18	EL CARMEN (SANTANDER)
910	Jul 21 2017	22:11: 6.6	4.15	-76.56	66	2.0	0.4	121	14	CALIMA (VALLE)
911	Jul 21 2017	22:49:58.6	6.81	-73.13	150	1.5	0.4	137	12	LOS SANTOS (SANTANDER)
912	Jul 22 2017	00:39:14.9	3.54	-76.24	138	1.5	0.3	134	14	PALMIRA (VALLE)
913	Jul 22 2017	01:08:33.7	6.77	-73.20	144	1.3	0.2	229	8	ZAPATOCA (SANTANDER)
914	Jul 22 2017	02:00:39.9	1.92	-74.31	Sup	2.0	0.3	128	9	SAN VICENTE DEL CAGUAN (CAQUETA)
915	Jul 22 2017	02:49:35.9	2.88	-78.02	Sup	1.5	0.5	151	14	O. PACIFICO SUR
916	Jul 22 2017	03:05:18.3	5.90	-73.79	115	1.4	0.2	186	8	SUCRE (SANTANDER)
917	Jul 22 2017	04:52:50.9	6.80	-73.15	149	1.4	0.3	135	13	LOS SANTOS (SANTANDER)
918	Jul 22 2017	04:54:27.2	3.73	-76.24	144	1.6	0.3	120	10	GINEBRA (VALLE)
919	Jul 22 2017	05:09: 9.0	6.93	-73.07	144	1.1	0.2	256	8	PIEDRECUESTA (SANTANDER)
920	Jul 22 2017	05:57: 7.4	6.81	-73.15	146	2.1	0.5	111	34	LOS SANTOS (SANTANDER)
921	Jul 22 2017	05:59:41.8	6.80	-73.15	147	1.9	0.3	111	22	LOS SANTOS (SANTANDER)
922	Jul 22 2017	06:05:52.5	5.72	-77.71	42	1.8	0.2	202	14	O. PACIFICO NORTE
923	Jul 22 2017	06:47:21.3	6.60	-73.18	139	1.2	0.2	227	8	BARICHARA (SANTANDER)
924	Jul 22 2017	07:02:44.1	7.27	-75.63	Sup	1.4	0.4	125	14	ITUANGO (ANTIOQUIA)
925	Jul 22 2017	07:08:35.6	6.81	-73.16	148	1.6	0.4	110	17	LOS SANTOS (SANTANDER)
926	Jul 22 2017	07:26:10.8	6.81	-73.15	147	1.7	0.5	135	18	LOS SANTOS (SANTANDER)
927	Jul 22 2017	07:36:25.1	6.75	-73.20	146	1.3	0.3	228	12	ZAPATOCA (SANTANDER)
928	Jul 22 2017	07:43:28.8	6.81	-73.13	143	1.7	0.4	112	22	LOS SANTOS (SANTANDER)
929	Jul 22 2017	08:51:53.9	7.17	-73.58	23	1.3	0.6	156	12	SABANA DE TORRES (SANTANDER)
930	Jul 22 2017	09:20:45.0	6.62	-73.52	106	1.3	0.3	117	10	EL CARMEN (SANTANDER)
931	Jul 22 2017	09:52:51.5	6.80	-73.12	149	1.8	0.4	139	18	LOS SANTOS (SANTANDER)
932	Jul 22 2017	10:11:16.1	3.68	-75.60	Sup	1.7	0.6	73	25	CHAPARRAL (TOLIMA)
933	Jul 22 2017	10:14:28.8	1.33	-78.98	Sup	3.1	0.5	202	44	O. PACIFICO SUR
934	Jul 22 2017	10:15:20.4	2.30	-75.47	20	1.8	0.2	124	9	GIGANTE (HUILA)
935	Jul 22 2017	11:08: 3.0	6.68	-73.24	130	1.5	0.4	208	8	BARICHARA (SANTANDER)
936	Jul 22 2017	11:12:11.1	6.79	-73.14	143	1.0	0.3	244	7	LOS SANTOS (SANTANDER)
937	Jul 22 2017	11:48: 7.1	4.78	-76.24	97	1.5	0.2	107	14	EL CAIRO (VALLE)
938	Jul 22 2017	12:58:38.3	4.09	-76.34	140	1.7	0.5	99	12	RIOFRIO (VALLE)
939	Jul 22 2017	13:18:33.6	6.83	-76.16	Sup	1.5	0.4	174	10	URAMITA (ANTIOQUIA)
940	Jul 22 2017	14:31:15.5	4.80	-74.56	11	0.9	0.2	213	8	VIANI (CUNDINAMARCA)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
941	Jul 22 2017	14:39:36.0	7.25	-76.98	15	2.7	0.4	168	48	RIOSUCIO (CHOCO)
942	Jul 22 2017	15:07:54.4	6.76	-73.10	138	1.2	0.1	143	8	LOS SANTOS (SANTANDER)
943	Jul 22 2017	16:22:53.1	6.79	-73.18	138	1.7	0.4	233	15	LOS SANTOS (SANTANDER)
944	Jul 22 2017	16:46:14.3	6.80	-73.13	143	1.4	0.2	138	10	LOS SANTOS (SANTANDER)
945	Jul 22 2017	17:16:12.8	6.73	-73.11	136	2.1	0.5	92	28	JORDAN (SANTANDER)
946	Jul 22 2017	17:39:48.6	4.52	-76.45	64	1.6	0.4	139	20	EL DOVIO (VALLE)
947	Jul 22 2017	19:51:14.0	6.73	-73.19	138	1.7	0.4	133	12	VILLANUEVA (SANTANDER)
948	Jul 22 2017	19:53:59.5	6.34	-73.56	112	2.1	0.3	81	31	SANTA HELENA DEL OPOON (SANTANDER)
949	Jul 22 2017	20:54:12.6	6.80	-73.11	145	1.7	0.3	141	14	LOS SANTOS (SANTANDER)
950	Jul 22 2017	21:29:46.1	6.69	-73.20	149	1.1	0.1	222	7	VILLANUEVA (SANTANDER)
951	Jul 22 2017	21:57:17.7	5.49	-73.81	150	1.1	0.1	201	6	SUSA (CUNDINAMARCA)
952	Jul 22 2017	22:56:27.1	6.74	-73.20	117	1.1	0.4	224	10	VILLANUEVA (SANTANDER)
953	Jul 22 2017	23:25:17.9	9.40	-74.53	24	3.5	0.6	62	58	SANTA ANA (MAGDALENA)
954	Jul 22 2017	23:44: 4.9	6.85	-76.24	57	1.1	0.3	206	6	URAMITA (ANTIOQUIA)
955	Jul 23 2017	00:32:43.9	6.69	-73.22	140	1.6	0.3	197	15	VILLANUEVA (SANTANDER)
956	Jul 23 2017	01:09:15.8	6.80	-73.16	145	2.7	0.5	64	37	LOS SANTOS (SANTANDER)
957	Jul 23 2017	03:03: 2.8	5.67	-72.58	Sup	1.7	0.4	177	14	PISVA (BOYACA)
958	Jul 23 2017	04:28: 5.9	5.78	-73.05	Sup	1.3	0.4	159	13	DUITAMA (BOYACA)
959	Jul 23 2017	05:03:32.7	6.76	-71.98	Sup	2.0	0.5	200	23	FORTUL (ARAUCA)
960	Jul 23 2017	05:05:59.9	6.72	-71.98	Sup	1.8	0.6	224	18	FORTUL (ARAUCA)
961	Jul 23 2017	05:57:44.4	6.79	-73.13	152	1.9	0.3	113	28	LOS SANTOS (SANTANDER)
962	Jul 23 2017	06:11:37.8	6.77	-73.16	146	1.5	0.4	234	10	LOS SANTOS (SANTANDER)
963	Jul 23 2017	06:40:30.3	6.57	-72.82	Sup	1.1	0.2	259	8	MOLAGAVITA (SANTANDER)
964	Jul 23 2017	06:43:48.4	6.68	-73.19	139	1.1	0.4	223	11	VILLANUEVA (SANTANDER)
965	Jul 23 2017	06:48:59.1	10.07	-73.01	118	1.3	0.2	185	6	AGUSTIN CODAZZI (CESAR)
966	Jul 23 2017	06:55:55.8	6.78	-73.12	141	1.6	0.3	220	23	LOS SANTOS (SANTANDER)
967	Jul 23 2017	07:09:35.8	6.76	-73.16	142	1.2	0.4	209	12	LOS SANTOS (SANTANDER)
968	Jul 23 2017	07:32:41.3	6.77	-73.16	136	2.4	0.5	111	40	LOS SANTOS (SANTANDER)
969	Jul 23 2017	08:09: 8.1	6.82	-73.15	145	1.6	0.4	214	21	LOS SANTOS (SANTANDER)
970	Jul 23 2017	09:44:42.5	6.91	-76.63	Sup	2.1	0.8	132	29	MURINDO (ANTIOQUIA)
971	Jul 23 2017	11:06:58.1	6.80	-73.15	148	1.9	0.5	213	16	LOS SANTOS (SANTANDER)
972	Jul 23 2017	13:10: 8.3	5.95	-73.65	118	2.3	0.5	97	29	BARBOSA (SANTANDER)
973	Jul 23 2017	14:25:50.8	5.23	-74.74	10	1.6	0.5	74	19	HONDA (TOLIMA)
974	Jul 23 2017	15:00:51.7	6.76	-73.15	147	1.3	0.5	234	9	LOS SANTOS (SANTANDER)
975	Jul 23 2017	15:31:40.0	6.76	-73.14	153	1.5	0.5	235	11	LOS SANTOS (SANTANDER)
976	Jul 23 2017	16:08:54.6	6.83	-73.19	147	1.2	0.3	235	8	ZAPATOCA (SANTANDER)
977	Jul 23 2017	17:47: 1.7	3.96	-76.60	108	1.4	0.1	105	7	CALIMA (VALLE)
978	Jul 23 2017	17:49:23.0	6.78	-73.15	142	2.0	0.5	99	23	LOS SANTOS (SANTANDER)
979	Jul 23 2017	18:21:20.2	6.77	-73.08	153	1.5	0.2	146	9	LOS SANTOS (SANTANDER)
980	Jul 23 2017	18:46:27.1	6.77	-73.15	148	1.6	0.4	235	9	LOS SANTOS (SANTANDER)
981	Jul 23 2017	19:10:19.0	6.77	-73.12	139	1.6	0.4	140	12	LOS SANTOS (SANTANDER)
982	Jul 23 2017	20:02: 6.5	6.27	-73.58	102	1.5	0.4	91	14	SANTA HELENA DEL OPOON (SANTANDER)
983	Jul 23 2017	20:28:59.1	6.83	-73.10	145	1.7	0.4	140	20	LOS SANTOS (SANTANDER)
984	Jul 23 2017	20:55:39.7	6.80	-73.14	142	2.0	0.5	112	30	LOS SANTOS (SANTANDER)
985	Jul 23 2017	21:12: 4.2	7.46	-73.20	132	2.3	0.5	106	37	EL PLAYON (SANTANDER)
986	Jul 23 2017	21:26:38.4	6.77	-73.06	151	1.8	0.2	148	18	LOS SANTOS (SANTANDER)
987	Jul 23 2017	21:45:12.2	6.78	-73.14	141	2.3	0.5	72	38	LOS SANTOS (SANTANDER)
988	Jul 23 2017	22:05:20.3	6.74	-73.21	144	1.5	0.3	223	10	VILLANUEVA (SANTANDER)
989	Jul 23 2017	22:14:40.6	6.74	-73.19	143	1.3	0.3	228	8	VILLANUEVA (SANTANDER)
990	Jul 23 2017	22:37:53.0	6.80	-73.10	143	1.9	0.5	216	20	LOS SANTOS (SANTANDER)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
991	Jul 23 2017	23:08:16.6	6.72	-73.18	140	1.0	0.4	227	6	VILLANUEVA (SANTANDER)
992	Jul 23 2017	23:17:19.2	6.70	-73.21	141	1.3	0.4	213	9	VILLANUEVA (SANTANDER)
993	Jul 23 2017	23:31:20.2	5.81	-73.10	Sup	1.9	0.6	55	28	PAIPA (BOYACA)
994	Jul 23 2017	23:54:46.3	4.55	-76.73	18	1.3	0.3	184	6	SIPI (CHOCO)
995	Jul 24 2017	00:27: 0.9	6.76	-73.13	148	1.3	0.4	236	11	LOS SANTOS (SANTANDER)
996	Jul 24 2017	01:07:24.4	6.80	-73.14	145	1.9	0.5	102	26	LOS SANTOS (SANTANDER)
997	Jul 24 2017	01:21:35.9	6.80	-73.12	145	2.0	0.5	108	31	LOS SANTOS (SANTANDER)
998	Jul 24 2017	01:25:47.8	0.64	-77.84	Sup	2.3	1.1	115	26	FRONTERA CON ECUADOR
999	Jul 24 2017	01:35:33.8	6.80	-73.14	148	1.9	0.6	66	31	LOS SANTOS (SANTANDER)
1000	Jul 24 2017	01:52:54.3	5.81	-72.60	Sup	1.1	0.6	133	10	PISVA (BOYACA)
1001	Jul 24 2017	01:58:50.0	7.04	-77.77	21	2.0	0.6	160	23	O. PACIFICO NORTE
1002	Jul 24 2017	03:15: 4.2	3.41	-76.84	54	1.5	0.5	128	15	DAGUA (VALLE)
1003	Jul 24 2017	03:22:56.1	7.42	-73.36	126	1.5	0.4	241	12	SABANA DE TORRES (SANTANDER)
1004	Jul 24 2017	03:36:14.1	6.78	-73.12	141	1.7	0.5	70	28	LOS SANTOS (SANTANDER)
1005	Jul 24 2017	03:56: 0.2	5.69	-78.39	32	1.9	0.4	193	20	O. PACIFICO NORTE
1006	Jul 24 2017	04:13:48.9	6.75	-73.12	144	1.4	0.3	210	12	LOS SANTOS (SANTANDER)
1007	Jul 24 2017	04:24:27.0	6.76	-73.11	149	1.4	0.3	238	11	LOS SANTOS (SANTANDER)
1008	Jul 24 2017	04:35:11.8	6.73	-73.18	152	1.0	0.3	228	8	VILLANUEVA (SANTANDER)
1009	Jul 24 2017	04:36:22.3	5.09	-72.92	Sup	0.8	0.5	158	9	PAEZ (BOYACA)
1010	Jul 24 2017	04:48:33.8	2.79	-74.49	Sup	1.0	0.4	169	8	URIBE (META)
1011	Jul 24 2017	05:05:18.8	4.70	-76.05	34	1.7	0.8	70	34	ARGELIA (VALLE)
1012	Jul 24 2017	06:15:20.5	6.77	-73.16	147	1.5	0.5	209	13	LOS SANTOS (SANTANDER)
1013	Jul 24 2017	06:20:41.5	6.79	-73.12	140	2.2	0.5	67	40	LOS SANTOS (SANTANDER)
1014	Jul 24 2017	06:30: 9.8	6.76	-73.15	150	1.5	0.4	208	15	LOS SANTOS (SANTANDER)
1015	Jul 24 2017	06:32: 2.1	6.83	-73.12	145	1.3	0.4	217	11	LOS SANTOS (SANTANDER)
1016	Jul 24 2017	06:41: 1.3	6.83	-73.10	145	1.3	0.4	244	11	LOS SANTOS (SANTANDER)
1017	Jul 24 2017	06:55:43.9	6.81	-73.14	143	1.5	0.5	185	21	LOS SANTOS (SANTANDER)
1018	Jul 24 2017	07:04:48.5	6.62	-73.15	141	1.1	0.1	266	7	VILLANUEVA (SANTANDER)
1019	Jul 24 2017	07:21:40.7	8.31	-73.51	102	1.6	0.6	131	20	AGUACHICA (CESAR)
1020	Jul 24 2017	07:57:35.3	6.74	-73.17	147	1.2	0.3	205	12	LOS SANTOS (SANTANDER)
1021	Jul 24 2017	08:20:43.1	6.74	-73.14	142	0.9	0.4	208	13	LOS SANTOS (SANTANDER)
1022	Jul 24 2017	08:49:57.9	6.78	-73.15	144	1.8	0.5	112	20	LOS SANTOS (SANTANDER)
1023	Jul 24 2017	11:08: 2.6	2.48	-75.45	9	1.9	0.5	86	16	HOBO (HUILA)
1024	Jul 24 2017	11:10:48.2	6.76	-73.15	149	1.4	0.3	234	8	LOS SANTOS (SANTANDER)
1025	Jul 24 2017	13:25: 2.7	6.82	-73.12	156	4.8*	0.7	67	95	LOS SANTOS (SANTANDER)
1026	Jul 24 2017	16:20:49.1	6.82	-73.11	144	1.9	0.4	114	14	LOS SANTOS (SANTANDER)
1027	Jul 24 2017	16:59: 6.0	6.80	-73.13	144	2.3	0.4	101	29	LOS SANTOS (SANTANDER)
1028	Jul 24 2017	17:14:27.8	6.39	-73.61	106	2.0	0.5	79	20	SANTA HELENA DEL OPO (SANTANDER)
1029	Jul 24 2017	17:27:40.3	7.29	-75.29	11	1.5	0.6	126	12	VALDIVIA (ANTIOQUIA)
1030	Jul 24 2017	18:00:60.0	6.84	-73.13	145	3.2	0.7	65	59	LOS SANTOS (SANTANDER)
1031	Jul 24 2017	20:41:54.5	6.00	-74.08	84	1.8	0.5	81	18	LA BELLEZA (SANTANDER)
1032	Jul 24 2017	21:19:36.1	4.12	-76.21	130	2.0	0.3	133	13	TULUA (VALLE)
1033	Jul 24 2017	22:42:57.7	3.84	-75.03	25	1.9	0.6	54	24	SALDANA (TOLIMA)
1034	Jul 24 2017	23:25:11.1	7.21	-73.07	153	2.4	0.4	109	24	RIONEGRO (SANTANDER)
1035	Jul 25 2017	00:17:40.0	5.98	-72.41	Sup	3.0	0.5	117	48	LA SALINA (CASANARE)
1036	Jul 25 2017	00:22:40.2	5.95	-72.45	Sup	1.2	0.2	115	12	SOCOTA (BOYACA)
1037	Jul 25 2017	00:31: 2.7	5.97	-72.41	Sup	3.1	0.7	117	58	LA SALINA (CASANARE)
1038	Jul 25 2017	00:59: 1.1	3.06	-78.35	20	1.6	0.3	274	13	O. PACIFICO SUR

\*Magnitud de Momento (Mw)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
1039	Jul 25 2017	01:05:17.5	6.81	-73.16	144	2.0	0.4	64	31	LOS SANTOS (SANTANDER)
1040	Jul 25 2017	01:33: 9.3	3.72	-76.88	25	1.1	0.4	132	10	DAGUA (VALLE)
1041	Jul 25 2017	01:39:54.2	4.80	-76.15	100	1.1	0.4	181	8	EL CAIRO (VALLE)
1042	Jul 25 2017	01:41:33.3	4.48	-72.67	Sup	1.5	0.8	100	12	CABUYARO (META)
1043	Jul 25 2017	01:56:16.2	6.80	-73.16	144	1.2	0.5	212	12	LOS SANTOS (SANTANDER)
1044	Jul 25 2017	01:59:16.3	6.77	-73.13	151	1.1	0.1	237	8	LOS SANTOS (SANTANDER)
1045	Jul 25 2017	02:06:39.0	6.76	-73.13	140	1.1	0.4	218	10	LOS SANTOS (SANTANDER)
1046	Jul 25 2017	02:28:24.0	4.13	-75.96	147	1.1	0.3	130	8	SEVILLA (VALLE)
1047	Jul 25 2017	04:32:45.9	5.26	-73.73	145	1.4	0.5	77	26	CUCUNUBA (CUNDINAMARCA)
1048	Jul 25 2017	05:00:13.6	6.54	-74.52	54	1.0	0.3	105	11	PUERTO BERRIO (ANTIOQUIA)
1049	Jul 25 2017	06:00:47.0	7.13	-76.24	Sup	1.3	0.6	239	10	DABEIBA (ANTIOQUIA)
1050	Jul 25 2017	06:06:22.6	6.81	-73.10	144	1.2	0.4	162	7	LOS SANTOS (SANTANDER)
1051	Jul 25 2017	06:21:36.6	6.78	-73.12	146	1.6	0.5	99	28	LOS SANTOS (SANTANDER)
1052	Jul 25 2017	07:05:12.7	6.81	-73.14	138	1.5	0.5	112	26	LOS SANTOS (SANTANDER)
1053	Jul 25 2017	07:06:26.4	6.80	-73.12	148	2.5	0.5	67	57	LOS SANTOS (SANTANDER)
1054	Jul 25 2017	07:09:11.0	6.78	-73.13	147	1.6	0.5	113	26	LOS SANTOS (SANTANDER)
1055	Jul 25 2017	07:20: 1.8	6.79	-73.13	148	1.7	0.5	113	23	LOS SANTOS (SANTANDER)
1056	Jul 25 2017	07:21:39.0	6.80	-73.10	148	1.2	0.4	263	9	LOS SANTOS (SANTANDER)
1057	Jul 25 2017	07:22:57.9	6.82	-73.12	140	1.4	0.4	113	11	LOS SANTOS (SANTANDER)
1058	Jul 25 2017	07:44:27.1	5.85	-74.03	101	0.4	0.4	175	7	LA BELLEZA (SANTANDER)
1059	Jul 25 2017	07:45:29.8	6.64	-73.15	141	1.3	0.4	255	8	VILLANUEVA (SANTANDER)
1060	Jul 25 2017	08:30:23.3	3.07	-77.84	Sup	2.2	0.7	131	39	O. PACIFICO SUR
1061	Jul 25 2017	08:44:16.9	6.80	-73.14	144	1.7	0.5	101	30	LOS SANTOS (SANTANDER)
1062	Jul 25 2017	10:05:17.5	6.80	-73.16	146	1.7	0.4	102	18	LOS SANTOS (SANTANDER)
1063	Jul 25 2017	10:22: 3.6	3.57	-76.74	66	1.4	0.4	130	9	DAGUA (VALLE)
1064	Jul 25 2017	10:29:19.4	6.74	-73.17	158	1.4	0.4	230	11	VILLANUEVA (SANTANDER)
1065	Jul 25 2017	10:54: 6.6	7.29	-74.35	Sup	1.6	0.5	175	14	SEGOVIA (ANTIOQUIA)
1066	Jul 25 2017	11:29:29.2	6.78	-73.14	148	1.9	0.4	212	16	LOS SANTOS (SANTANDER)
1067	Jul 25 2017	13:37:29.6	6.76	-73.13	134	1.8	0.6	210	13	LOS SANTOS (SANTANDER)
1068	Jul 25 2017	15:00:14.0	3.82	-76.19	147	1.5	0.4	116	10	GINEBRA (VALLE)
1069	Jul 25 2017	15:05:38.1	6.78	-73.15	138	1.8	0.3	136	12	LOS SANTOS (SANTANDER)
1070	Jul 25 2017	16:42:55.5	2.70	-76.79	22	1.7	0.4	160	10	MORALES (CAUCA)
1071	Jul 25 2017	17:01:56.0	5.37	-77.50	Sup	1.9	0.5	272	11	O. PACIFICO CENTRO
1072	Jul 25 2017	19:37: 6.8	4.23	-76.36	73	2.0	0.2	168	8	TRUJILLO (VALLE)
1073	Jul 25 2017	20:00:22.5	6.81	-73.15	143	2.5	0.3	213	15	LOS SANTOS (SANTANDER)
1074	Jul 25 2017	20:20:54.3	6.80	-73.17	141	2.1	0.4	109	22	ZAPATOCA (SANTANDER)
1075	Jul 25 2017	20:21:58.1	6.76	-73.17	139	2.0	0.5	111	22	LOS SANTOS (SANTANDER)
1076	Jul 25 2017	20:58:39.9	2.99	-76.80	103	1.6	0.4	180	12	SUAREZ (CAUCA)
1077	Jul 25 2017	22:52:13.2	6.83	-73.23	141	1.5	0.5	228	8	ZAPATOCA (SANTANDER)
1078	Jul 25 2017	22:54:15.9	5.24	-73.72	143	2.2	0.4	55	31	CUCUNUBA (CUNDINAMARCA)
1079	Jul 25 2017	23:53:24.7	6.71	-73.16	149	1.8	0.2	211	11	VILLANUEVA (SANTANDER)
1080	Jul 26 2017	00:07: 2.8	6.72	-73.16	148	1.4	0.5	137	9	VILLANUEVA (SANTANDER)
1081	Jul 26 2017	00:26:25.6	5.31	-76.45	22	1.3	0.6	213	12	BAGADO (CHOCO)
1082	Jul 26 2017	00:39:30.4	2.62	-75.69	14	1.0	0.1	202	8	IQUIRA (HUILA)
1083	Jul 26 2017	00:48:25.1	6.80	-73.13	142	2.0	0.6	72	33	LOS SANTOS (SANTANDER)
1084	Jul 26 2017	00:50:18.4	7.00	-77.78	37	2.8	0.4	198	8	O. PACIFICO NORTE
1085	Jul 26 2017	01:02:47.6	6.52	-74.73	18	1.5	0.5	105	19	MACEO (ANTIOQUIA)
1086	Jul 26 2017	02:07: 6.6	6.82	-73.14	142	3.0	0.6	65	62	LOS SANTOS (SANTANDER)
1087	Jul 26 2017	02:18:47.5	6.80	-73.12	149	1.7	0.6	215	24	LOS SANTOS (SANTANDER)
1088	Jul 26 2017	03:05:47.2	6.78	-73.16	147	1.4	0.5	210	17	LOS SANTOS (SANTANDER)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
1089	Jul 26 2017	03:44:11.9	5.25	-73.72	150	1.5	0.5	94	20	CUCUNUBA (CUNDINAMARCA)
1090	Jul 26 2017	03:45:20.1	6.77	-73.11	139	1.4	0.5	262	16	LOS SANTOS (SANTANDER)
1091	Jul 26 2017	03:51:17.0	6.81	-73.15	144	1.8	0.6	74	33	LOS SANTOS (SANTANDER)
1092	Jul 26 2017	03:59:20.8	6.80	-73.10	141	1.6	0.4	216	15	LOS SANTOS (SANTANDER)
1093	Jul 26 2017	04:42:52.9	6.84	-73.14	145	2.7	0.6	65	56	LOS SANTOS (SANTANDER)
1094	Jul 26 2017	04:57:56.3	6.73	-73.11	148	1.4	0.4	217	14	JORDAN (SANTANDER)
1095	Jul 26 2017	05:49:30.6	5.26	-73.73	148	3.2	0.6	39	72	CUCUNUBA (CUNDINAMARCA)
1096	Jul 26 2017	06:15:31.9	6.75	-73.12	149	1.5	0.4	211	11	LOS SANTOS (SANTANDER)
1097	Jul 26 2017	06:47:30.6	6.83	-73.13	148	1.9	0.4	66	34	LOS SANTOS (SANTANDER)
1098	Jul 26 2017	06:51:22.0	6.72	-73.15	143	1.6	0.4	157	10	JORDAN (SANTANDER)
1099	Jul 26 2017	07:14:45.6	3.91	-76.34	109	1.2	0.4	162	9	BUGA (VALLE)
1100	Jul 26 2017	08:35:16.4	6.80	-73.14	139	1.7	0.5	184	23	LOS SANTOS (SANTANDER)
1101	Jul 26 2017	08:38: 9.5	6.75	-73.16	150	1.3	0.4	207	11	LOS SANTOS (SANTANDER)
1102	Jul 26 2017	09:52:10.3	6.69	-73.19	142	1.3	0.4	199	9	VILLANUEVA (SANTANDER)
1103	Jul 26 2017	10:07:27.0	2.12	-75.52	11	1.2	0.3	176	9	GARZON (HUILA)
1104	Jul 26 2017	10:15:19.5	6.79	-73.17	145	1.6	0.5	211	14	LOS SANTOS (SANTANDER)
1105	Jul 26 2017	10:32:24.0	6.84	-73.13	141	1.5	0.5	222	9	LOS SANTOS (SANTANDER)
1106	Jul 26 2017	10:48:46.6	10.81	-73.20	15	1.5	0.2	130	7	LA PAZ (CESAR)
1107	Jul 26 2017	11:58:30.6	6.76	-73.17	146	1.5	0.4	207	9	LOS SANTOS (SANTANDER)
1108	Jul 26 2017	11:58:59.8	7.66	-74.69	49	2.0	0.5	204	8	EL BAGRE (ANTIOQUIA)
1109	Jul 26 2017	12:59:35.4	6.67	-73.21	155	1.3	0.3	208	8	VILLANUEVA (SANTANDER)
1110	Jul 26 2017	13:40:51.0	3.36	-76.92	90	1.5	0.2	207	7	DAGUA (VALLE)
1111	Jul 26 2017	14:39:30.0	6.84	-73.15	150	4.1	0.6	64	88	LOS SANTOS (SANTANDER)
1112	Jul 26 2017	15:06: 2.7	2.28	-75.50	13	1.6	0.5	90	14	GIGANTE (HUILA)
1113	Jul 26 2017	16:06:36.4	6.80	-73.13	150	2.7	0.5	102	42	LOS SANTOS (SANTANDER)
1114	Jul 26 2017	16:14:14.3	2.42	-75.41	15	2.0	0.6	95	17	GIGANTE (HUILA)
1115	Jul 26 2017	17:01: 3.4	5.28	-74.70	23	1.2	0.4	176	9	HONDA (TOLIMA)
1116	Jul 26 2017	21:14:34.9	6.79	-73.42	120	1.7	0.2	173	8	SAN VICENTE DE CHUCURI (SANTANDER)
1117	Jul 26 2017	21:21:39.9	6.75	-73.18	147	1.6	0.2	230	10	LOS SANTOS (SANTANDER)
1118	Jul 26 2017	21:28:57.6	6.75	-73.12	140	1.9	0.4	142	18	LOS SANTOS (SANTANDER)
1119	Jul 26 2017	21:50: 4.7	6.91	-74.75	30	1.4	0.3	150	9	REMEDIOS (ANTIOQUIA)
1120	Jul 26 2017	22:31: 1.5	5.85	-74.86	Sup	1.6	0.7	77	20	PUERTO TRIUNFO (ANTIOQUIA)
1121	Jul 26 2017	22:43:14.2	6.75	-73.13	139	1.4	0.3	140	12	LOS SANTOS (SANTANDER)
1122	Jul 26 2017	22:44:46.1	6.56	-73.51	116	1.8	0.4	66	20	EL CARMEN (SANTANDER)
1123	Jul 27 2017	00:29:36.7	5.27	-73.74	151	2.1	0.6	54	37	CUCUNUBA (CUNDINAMARCA)
1124	Jul 27 2017	00:37: 9.1	3.76	-76.93	11	2.6	0.7	63	58	BUENAVENTURA (VALLE)
1125	Jul 27 2017	00:49:59.7	6.79	-73.08	141	1.5	0.5	117	23	LOS SANTOS (SANTANDER)
1126	Jul 27 2017	01:10:15.6	6.75	-73.11	143	1.2	0.4	142	9	LOS SANTOS (SANTANDER)
1127	Jul 27 2017	01:15:43.0	6.78	-73.11	144	1.7	0.4	115	20	LOS SANTOS (SANTANDER)
1128	Jul 27 2017	01:29:57.0	6.80	-73.11	152	1.4	0.5	122	15	LOS SANTOS (SANTANDER)
1129	Jul 27 2017	01:56:59.1	4.79	-76.17	100	1.2	0.3	80	15	EL CAIRO (VALLE)
1130	Jul 27 2017	02:14:48.9	7.12	-76.29	Sup	1.4	0.6	243	15	DABEIBA (ANTIOQUIA)
1131	Jul 27 2017	02:19:48.1	7.38	-73.02	159	1.9	0.5	137	26	SURATA (SANTANDER)
1132	Jul 27 2017	02:42:34.6	6.81	-73.14	147	1.5	0.4	111	18	LOS SANTOS (SANTANDER)
1133	Jul 27 2017	02:56:10.2	10.20	-73.67	68	1.6	0.4	169	12	PUEBLO BELLO (CESAR)
1134	Jul 27 2017	03:02:33.0	0.35	-74.13	32	1.8	0.3	223	9	PUERTO LEGUIZAMO (PUTUMAYO)
1135	Jul 27 2017	03:18:44.0	3.78	-76.91	Sup	1.2	0.5	129	10	BUENAVENTURA (VALLE)
1136	Jul 27 2017	03:48:33.6	6.80	-73.12	144	1.3	0.3	214	14	LOS SANTOS (SANTANDER)
1137	Jul 27 2017	03:49:36.6	5.71	-76.87	Sup	1.6	0.5	170	9	QUIBDO (CHOCO)
1138	Jul 27 2017	03:57:28.4	6.86	-73.14	143	2.5	0.6	65	47	LOS SANTOS (SANTANDER)



Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
1139	Jul 27 2017	04:12:50.3	6.82	-73.09	149	1.4	0.4	244	12	LOS SANTOS (SANTANDER)
1140	Jul 27 2017	04:47:18.7	6.80	-73.11	149	1.2	0.3	241	10	LOS SANTOS (SANTANDER)
1141	Jul 27 2017	04:56:13.6	5.27	-73.72	150	2.7	0.6	59	52	LENGUAZAQUE (CUNDINAMARCA)
1142	Jul 27 2017	05:01:47.1	6.68	-73.51	120	1.3	0.4	132	15	EL CARMEN (SANTANDER)
1143	Jul 27 2017	05:10:52.8	4.42	-76.26	123	1.4	0.5	109	17	EL DOVIO (VALLE)
1144	Jul 27 2017	05:57:32.8	2.87	-78.05	Sup	1.4	0.6	161	11	O. PACIFICO SUR
1145	Jul 27 2017	06:33:17.9	4.45	-76.24	108	1.6	0.5	107	25	EL DOVIO (VALLE)
1146	Jul 27 2017	06:44:57.0	6.71	-73.37	128	1.2	0.2	162	8	GALAN (SANTANDER)
1147	Jul 27 2017	06:51:50.6	6.81	-73.07	145	1.4	0.7	145	13	LOS SANTOS (SANTANDER)
1148	Jul 27 2017	07:50:17.3	5.89	-73.75	109	0.7	0.1	142	11	JESUS MARIA (SANTANDER)
1149	Jul 27 2017	07:59:41.4	3.25	-74.52	Sup	1.9	0.6	66	38	URIBE (META)
1150	Jul 27 2017	08:01:41.8	5.97	-72.46	Sup	1.3	0.6	114	17	SOCOTA (BOYACA)
1151	Jul 27 2017	08:36:40.8	6.78	-73.11	148	1.2	0.4	221	14	LOS SANTOS (SANTANDER)
1152	Jul 27 2017	08:50:20.1	6.80	-73.14	138	1.4	0.4	112	12	LOS SANTOS (SANTANDER)
1153	Jul 27 2017	08:51:57.6	6.78	-73.15	137	1.0	0.4	236	10	LOS SANTOS (SANTANDER)
1154	Jul 27 2017	08:55:36.3	6.51	-73.49	112	1.2	0.5	97	18	SIMACOTA (SANTANDER)
1155	Jul 27 2017	09:04:14.9	6.70	-73.51	108	0.7	0.3	152	8	EL CARMEN (SANTANDER)
1156	Jul 27 2017	09:25: 4.7	5.28	-73.72	159	1.9	0.7	92	34	LENGUAZAQUE (CUNDINAMARCA)
1157	Jul 27 2017	09:26:50.4	7.44	-73.18	133	2.0	0.6	104	36	EL PLAYON (SANTANDER)
1158	Jul 27 2017	09:31:27.1	6.64	-73.12	133	1.0	0.4	200	10	VILLANUEVA (SANTANDER)
1159	Jul 27 2017	09:37: 3.1	3.57	-74.34	Sup	1.3	0.5	175	14	LEJANIAS (META)
1160	Jul 27 2017	10:33: 0.5	6.80	-73.10	144	1.6	0.3	142	10	LOS SANTOS (SANTANDER)
1161	Jul 27 2017	10:33:36.4	6.80	-73.05	144	1.8	0.4	148	9	LOS SANTOS (SANTANDER)
1162	Jul 27 2017	10:46: 3.2	6.82	-73.11	138	1.7	0.6	103	17	LOS SANTOS (SANTANDER)
1163	Jul 27 2017	11:25:40.4	6.78	-73.13	142	2.3	0.6	99	36	LOS SANTOS (SANTANDER)
1164	Jul 27 2017	12:38:11.1	4.77	-76.84	24	1.4	0.5	143	10	SIPI (CHOCO)
1165	Jul 27 2017	12:43: 5.1	6.82	-73.16	148	2.2	0.5	75	22	LOS SANTOS (SANTANDER)
1166	Jul 27 2017	14:45: 9.0	6.73	-73.18	143	1.3	0.4	203	8	VILLANUEVA (SANTANDER)
1167	Jul 27 2017	16:04:15.7	5.98	-76.50	57	1.9	0.4	220	14	MEDIO ATRATO (CHOCO)
1168	Jul 27 2017	16:20:21.6	4.00	-77.59	30	2.0	0.5	285	8	O. PACIFICO CENTRO
1169	Jul 27 2017	17:07:39.2	6.31	-73.56	116	1.7	0.4	86	13	SANTA HELENA DEL OPO (SANTANDER)
1170	Jul 27 2017	17:14: 3.9	6.78	-73.15	145	2.1	0.5	136	17	LOS SANTOS (SANTANDER)
1171	Jul 27 2017	19:28:37.0	7.22	-73.27	121	1.8	0.2	253	8	RIONEGRO (SANTANDER)
1172	Jul 27 2017	21:25:55.1	2.35	-75.62	22	1.6	0.3	106	10	GIGANTE (HUILA)
1173	Jul 27 2017	21:35:30.4	5.96	-74.85	Sup	1.5	0.6	145	13	SAN LUIS (ANTIOQUIA)
1174	Jul 27 2017	22:32: 4.0	5.59	-74.35	80	2.1	0.4	103	15	YACOPI (CUNDINAMARCA)
1175	Jul 27 2017	22:48:35.3	6.74	-73.72	93	1.3	0.3	112	9	EL CARMEN (SANTANDER)
1176	Jul 27 2017	22:52:12.5	6.80	-73.07	140	1.8	0.1	249	7	LOS SANTOS (SANTANDER)
1177	Jul 27 2017	23:08:23.7	6.77	-73.15	144	1.1	0.3	234	8	LOS SANTOS (SANTANDER)
1178	Jul 27 2017	23:10:38.1	6.78	-73.15	142	2.1	0.5	112	30	LOS SANTOS (SANTANDER)
1179	Jul 27 2017	23:32:51.7	5.66	-76.61	17	1.4	0.7	253	10	QUIBDO (CHOCO)
1180	Jul 28 2017	00:45:52.2	3.35	-74.77	12	2.5	0.6	70	53	COLOMBIA (HUILA)
1181	Jul 28 2017	01:40:33.7	6.77	-73.07	150	1.3	0.4	243	11	LOS SANTOS (SANTANDER)
1182	Jul 28 2017	02:10:41.1	5.10	-74.93	11	1.2	0.5	160	15	FALAN (TOLIMA)
1183	Jul 28 2017	02:28:32.6	3.30	-76.63	68	1.8	0.7	57	29	JAMUNDI (VALLE)
1184	Jul 28 2017	02:38:23.6	6.28	-73.76	Sup	1.4	0.3	86	10	LANDAZURI (SANTANDER)
1185	Jul 28 2017	02:48: 2.2	7.02	-77.06	13	1.7	0.7	145	15	MURINDO (ANTIOQUIA)
1186	Jul 28 2017	03:43:58.8	7.08	-73.37	116	2.7	0.7	53	60	LEBRIJA (SANTANDER)
1187	Jul 28 2017	03:46:17.2	3.84	-71.46	Sup	2.5	0.5	230	25	PUERTO GAITAN (META)
1188	Jul 28 2017	04:22:17.2	3.64	-76.71	68	1.7	0.4	127	24	DAGUA (VALLE)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
1189	Jul 28 2017	04:46:34.5	6.64	-73.16	150	1.1	0.4	141	8	VILLANUEVA (SANTANDER)
1190	Jul 28 2017	05:16:50.7	8.68	-73.50	26	1.4	0.3	225	11	PELAYA (CESAR)
1191	Jul 28 2017	05:29:37.2	6.83	-73.11	140	1.8	0.5	68	33	LOS SANTOS (SANTANDER)
1192	Jul 28 2017	06:27:54.3	6.72	-73.10	141	1.1	0.2	177	12	JORDAN (SANTANDER)
1193	Jul 28 2017	06:47: 3.4	6.54	-73.52	110	1.2	0.3	130	9	EL CARMEN (SANTANDER)
1194	Jul 28 2017	07:04: 6.5	6.80	-73.13	146	1.5	0.4	112	24	LOS SANTOS (SANTANDER)
1195	Jul 28 2017	07:20:49.4	11.24	-73.75	Sup	2.1	0.7	175	25	PUEBLO BELLO (CESAR)
1196	Jul 28 2017	07:32:19.4	6.74	-73.09	138	1.3	0.3	145	15	LOS SANTOS (SANTANDER)
1197	Jul 28 2017	07:48:54.1	6.79	-73.14	139	2.2	0.5	66	43	LOS SANTOS (SANTANDER)
1198	Jul 28 2017	08:03:48.5	6.71	-73.12	146	1.0	0.2	261	8	JORDAN (SANTANDER)
1199	Jul 28 2017	08:28: 2.7	6.76	-73.16	156	1.2	0.3	233	10	LOS SANTOS (SANTANDER)
1200	Jul 28 2017	08:47:21.4	6.76	-73.12	143	1.3	0.4	123	15	LOS SANTOS (SANTANDER)
1201	Jul 28 2017	08:53:23.2	7.10	-73.80	95	0.8	0.2	155	7	BARRANCABERMEJA (SANTANDER)
1202	Jul 28 2017	08:55:41.8	6.78	-73.12	146	1.3	0.5	122	18	LOS SANTOS (SANTANDER)
1203	Jul 28 2017	09:17:11.3	7.63	-73.08	149	1.1	0.3	222	10	CACHIRA (N.SANTANDER)
1204	Jul 28 2017	09:27:53.3	6.81	-73.10	149	1.2	0.3	263	9	LOS SANTOS (SANTANDER)
1205	Jul 28 2017	09:49:34.9	6.77	-73.12	143	1.7	0.5	122	20	LOS SANTOS (SANTANDER)
1206	Jul 28 2017	09:59: 8.9	3.07	-74.69	Sup	1.6	0.4	154	12	COLOMBIA (HUILA)
1207	Jul 28 2017	10:20:55.4	6.82	-73.13	144	2.0	0.7	104	26	LOS SANTOS (SANTANDER)
1208	Jul 28 2017	10:24:44.7	7.32	-75.24	Sup	1.5	0.5	100	10	VALDIVIA (ANTIOQUIA)
1209	Jul 28 2017	10:27:35.7	10.99	-74.18	Sup	1.8	0.2	123	7	PIVIJAY (MAGDALENA)
1210	Jul 28 2017	10:38:44.3	6.91	-76.68	11	1.8	0.4	132	12	MURINDO (ANTIOQUIA)
1211	Jul 28 2017	10:51: 1.5	5.06	-74.46	144	1.8	0.4	262	14	VILLETA (CUNDINAMARCA)
1212	Jul 28 2017	11:08:49.2	5.88	-76.12	22	1.9	0.5	167	20	EL CARMEN (CHOCO)
1213	Jul 28 2017	12:05:14.5	6.78	-73.12	150	1.6	0.4	140	14	LOS SANTOS (SANTANDER)
1214	Jul 28 2017	12:44:10.8	5.97	-72.44	Sup	1.8	0.8	184	14	LA SALINA (CASANARE)
1215	Jul 28 2017	13:25:14.6	6.77	-73.13	145	2.2	0.5	114	24	LOS SANTOS (SANTANDER)
1216	Jul 28 2017	14:46:12.2	5.99	-74.22	Sup	1.1	0.3	141	8	LA BELLEZA (SANTANDER)
1217	Jul 28 2017	15:53:11.7	2.38	-75.37	Sup	3.1	0.7	68	40	ALGECIRAS (HUILA)
1218	Jul 28 2017	16:37:41.3	5.15	-77.81	23	2.1	0.3	302	7	O. PACIFICO CENTRO
1219	Jul 28 2017	16:47:26.5	3.80	-76.92	28	1.6	0.3	128	8	BUENAVENTURA (VALLE)
1220	Jul 28 2017	17:52:16.2	11.17	-72.73	110	2.4	0.5	145	11	MANAURE BALCON CESAR (CESAR)
1221	Jul 28 2017	18:41:53.2	4.27	-76.96	70	2.5	0.6	95	41	BUENAVENTURA (VALLE)
1222	Jul 28 2017	19:13:16.8	6.80	-73.17	147	1.9	0.4	211	15	ZAPATOCA (SANTANDER)
1223	Jul 28 2017	21:39:58.8	6.78	-73.17	148	1.9	0.5	109	20	LOS SANTOS (SANTANDER)
1224	Jul 28 2017	21:45: 8.1	6.82	-73.12	146	2.5	0.6	113	33	LOS SANTOS (SANTANDER)
1225	Jul 28 2017	23:15:48.2	6.78	-73.13	142	1.8	0.3	212	14	LOS SANTOS (SANTANDER)
1226	Jul 29 2017	00:09: 3.1	6.80	-73.12	141	1.5	0.4	139	13	LOS SANTOS (SANTANDER)
1227	Jul 29 2017	01:29:56.9	6.75	-76.34	Sup	1.5	0.5	228	16	FRONTINO (ANTIOQUIA)
1228	Jul 29 2017	02:16:31.8	4.40	-78.44	32	2.1	0.5	269	24	O. PACIFICO CENTRO
1229	Jul 29 2017	02:17:53.8	6.23	-73.70	108	1.2	0.2	174	7	LANDAZURI (SANTANDER)
1230	Jul 29 2017	02:36:21.3	5.98	-72.42	Sup	1.8	0.6	116	25	LA SALINA (CASANARE)
1231	Jul 29 2017	03:04:12.0	6.80	-73.12	140	1.3	0.4	114	14	LOS SANTOS (SANTANDER)
1232	Jul 29 2017	03:21:38.7	5.69	-73.95	108	1.5	0.6	42	30	BRICENO (BOYACA)
1233	Jul 29 2017	03:44: 6.6	6.79	-73.11	152	1.5	0.4	215	14	LOS SANTOS (SANTANDER)
1234	Jul 29 2017	03:45:24.5	6.76	-73.13	144	1.4	0.3	236	10	LOS SANTOS (SANTANDER)
1235	Jul 29 2017	04:03:53.4	6.72	-73.10	144	1.3	0.3	217	11	JORDAN (SANTANDER)
1236	Jul 29 2017	04:29:47.0	3.77	-71.59	Sup	1.9	0.7	296	14	PUERTO GAITAN (META)
1237	Jul 29 2017	05:21:50.1	4.95	-75.75	Sup	0.8	0.2	156	8	MARSELLA (RISARALDA)
1238	Jul 29 2017	05:34:18.2	6.81	-73.06	151	1.2	0.2	226	11	LOS SANTOS (SANTANDER)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
1239	Jul 29 2017	05:44: 3.0	6.84	-73.11	146	2.1	0.6	74	43	LOS SANTOS (SANTANDER)
<u>1240</u>	<u>Jul 29 2017</u>	<u>05:46:12.3</u>	<u>1.25</u>	<u>-76.94</u>	<u>Sup</u>	<u>2.6</u>	<u>0.7</u>	<u>93</u>	<u>42</u>	<u>SIBUNDOY (PUTUMAYO)</u>
1241	Jul 29 2017	06:04:20.8	6.78	-73.13	141	1.3	0.4	212	16	LOS SANTOS (SANTANDER)
1242	Jul 29 2017	06:05:55.3	6.73	-73.12	145	1.5	0.3	235	15	LOS SANTOS (SANTANDER)
1243	Jul 29 2017	06:11:58.3	6.82	-73.16	153	1.2	0.4	238	9	LOS SANTOS (SANTANDER)
<u>1244</u>	<u>Jul 29 2017</u>	<u>06:14:30.9</u>	<u>1.24</u>	<u>-76.94</u>	<u>Sup</u>	<u>2.4</u>	<u>0.7</u>	<u>93</u>	<u>42</u>	<u>SIBUNDOY (PUTUMAYO)</u>
1245	Jul 29 2017	06:20:22.2	1.24	-76.94	Sup	1.9	0.6	141	28	SIBUNDOY (PUTUMAYO)
1246	Jul 29 2017	06:38:32.1	6.30	-75.78	37	1.5	0.4	121	16	EBEJICO (ANTIOQUIA)
1247	Jul 29 2017	07:02:19.0	7.33	-75.26	11	1.4	0.5	102	18	VALDIVIA (ANTIOQUIA)
1248	Jul 29 2017	07:31: 6.9	5.23	-73.75	145	1.1	0.5	163	12	CUCUNUBA (CUNDINAMARCA)
1249	Jul 29 2017	07:50:27.6	6.08	-74.22	Sup	1.6	0.7	61	25	LA BELLEZA (SANTANDER)
1250	Jul 29 2017	08:02:11.1	6.80	-73.10	142	2.0	0.5	68	41	LOS SANTOS (SANTANDER)
1251	Jul 29 2017	08:22:24.4	6.79	-73.13	152	1.9	0.4	100	25	LOS SANTOS (SANTANDER)
1252	Jul 29 2017	08:43:51.2	6.80	-73.05	141	1.1	0.3	247	8	LOS SANTOS (SANTANDER)
1253	Jul 29 2017	10:17:36.7	6.85	-72.97	139	1.3	0.2	258	8	CEPITA (SANTANDER)
1254	Jul 29 2017	10:21: 9.7	5.58	-73.87	135	1.2	0.1	220	7	CALDAS (BOYACA)
1255	Jul 29 2017	11:03:54.2	6.88	-73.32	122	2.6	0.7	85	41	BETULIA (SANTANDER)
1256	Jul 29 2017	11:33: 8.0	6.75	-73.10	148	1.3	0.3	239	10	LOS SANTOS (SANTANDER)
1257	Jul 29 2017	15:44:37.7	6.80	-73.14	142	2.5	0.5	102	32	LOS SANTOS (SANTANDER)
1258	Jul 29 2017	16:07:59.6	6.77	-73.14	145	2.1	0.5	98	23	LOS SANTOS (SANTANDER)
1259	Jul 29 2017	16:29:38.5	2.36	-75.38	9	2.1	0.7	101	16	GIGANTE (HUILA)
1260	Jul 29 2017	16:53:23.5	6.77	-73.14	142	1.9	0.7	113	16	LOS SANTOS (SANTANDER)
1261	Jul 29 2017	18:06: 0.8	6.83	-73.13	144	2.4	0.6	74	31	LOS SANTOS (SANTANDER)
1262	Jul 29 2017	19:06:35.5	2.88	-75.69	Sup	1.4	0.1	112	10	SANTA MARIA (HUILA)
1263	Jul 29 2017	19:48:31.4	6.55	-74.13	64	1.4	0.4	75	14	PUERTO PARRA (SANTANDER)
1264	Jul 29 2017	21:09: 4.1	6.76	-73.10	141	2.1	0.3	143	21	LOS SANTOS (SANTANDER)
1265	Jul 30 2017	00:22:37.4	6.36	-73.53	107	1.7	0.6	107	14	SANTA HELENA DEL OPO (SANTANDER)
1266	Jul 30 2017	00:41:18.0	2.53	-75.53	Sup	2.6	0.4	125	33	HOBO (HUILA)
1267	Jul 30 2017	01:26:36.0	6.81	-73.14	145	1.5	0.5	136	14	LOS SANTOS (SANTANDER)
1268	Jul 30 2017	01:35: 9.9	6.80	-73.13	146	1.5	0.5	214	15	LOS SANTOS (SANTANDER)
1269	Jul 30 2017	01:36:36.1	6.74	-73.14	152	1.4	0.5	233	9	LOS SANTOS (SANTANDER)
1270	Jul 30 2017	02:16:36.2	6.80	-73.15	142	1.9	0.3	102	25	LOS SANTOS (SANTANDER)
1271	Jul 30 2017	02:21:56.3	6.79	-73.14	147	1.0	0.4	237	9	LOS SANTOS (SANTANDER)
1272	Jul 30 2017	02:51: 2.3	6.73	-73.06	151	1.5	0.5	220	16	JORDAN (SANTANDER)
1273	Jul 30 2017	04:14:53.8	6.80	-73.14	146	2.2	0.5	101	40	LOS SANTOS (SANTANDER)
1274	Jul 30 2017	04:19:53.0	2.41	-75.41	20	1.1	0.6	96	13	GIGANTE (HUILA)
1275	Jul 30 2017	04:42:32.5	1.23	-76.93	Sup	2.2	0.7	143	20	SIBUNDOY (PUTUMAYO)
1276	Jul 30 2017	05:35: 7.5	6.77	-73.10	147	1.2	0.3	240	9	LOS SANTOS (SANTANDER)
1277	Jul 30 2017	05:39:30.4	3.86	-77.17	58	1.1	0.6	132	12	BUENAVENTURA (VALLE)
<u>1278</u>	<u>Jul 30 2017</u>	<u>05:40:40.3</u>	<u>4.83</u>	<u>-75.33</u>	<u>Sup</u>	<u>4.7</u>	<u>0.1</u>	<u>117</u>	<u>98</u>	<u>VOLCAN PARAMILLO DEL CISNE</u>
<u>1279</u>	<u>Jul 30 2017</u>	<u>05:57: 5.7</u>	<u>4.83</u>	<u>-75.34</u>	<u>Sup</u>	<u>4.6</u>	<u>0.1</u>	<u>118</u>	<u>91</u>	<u>VOLCAN PARAMILLO DEL CISNE</u>
1280	Jul 30 2017	06:37:30.3	6.75	-73.17	152	1.3	0.4	239	8	LOS SANTOS (SANTANDER)
1281	Jul 30 2017	06:44:23.6	6.82	-73.13	145	1.7	0.6	105	13	LOS SANTOS (SANTANDER)
1282	Jul 30 2017	06:52:57.4	6.76	-73.11	146	1.2	0.4	238	10	LOS SANTOS (SANTANDER)
1283	Jul 30 2017	07:36:18.2	4.87	-76.14	111	0.8	0.2	127	7	EL AGUILA (VALLE)
1284	Jul 30 2017	08:06:50.5	6.76	-73.13	143	1.3	0.4	139	10	LOS SANTOS (SANTANDER)
1285	Jul 30 2017	08:20:11.7	5.90	-77.71	29	1.9	0.9	158	37	O. PACIFICO NORTE
1286	Jul 30 2017	08:56:46.5	5.05	-72.91	Sup	1.4	0.7	111	19	PAEZ (BOYACA)
1287	Jul 30 2017	09:17:50.9	6.79	-73.12	143	1.6	0.5	114	25	LOS SANTOS (SANTANDER)
1288	Jul 30 2017	09:30:22.7	6.98	-76.39	Sup	1.6	0.7	232	20	DABEIBA (ANTIOQUIA)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
1289	Jul 30 2017	10:03:10.0	10.40	-72.83	111	1.2	0.2	274	8	FRONTERA CON VENEZUELA
1290	Jul 30 2017	10:24:26.3	6.82	-73.17	142	1.3	0.3	213	10	ZAPATOCA (SANTANDER)
1291	Jul 30 2017	10:38:55.7	6.78	-73.77	16	1.3	0.5	96	16	YONDO (ANTIOQUIA)
1292	Jul 30 2017	11:11: 0.1	6.80	-73.15	145	1.5	0.4	111	15	LOS SANTOS (SANTANDER)
1293	Jul 30 2017	11:36:27.7	6.80	-73.16	143	1.4	0.4	134	13	LOS SANTOS (SANTANDER)
1294	Jul 30 2017	11:50:23.8	6.77	-73.10	142	1.8	0.3	97	25	LOS SANTOS (SANTANDER)
1295	Jul 30 2017	11:50:23.9	6.77	-73.11	141	1.8	0.4	97	25	LOS SANTOS (SANTANDER)
1296	Jul 30 2017	12:07:34.1	6.37	-73.66	103	1.1	0.3	80	10	SANTA HELENA DEL OPO (SANTANDER)
1297	Jul 30 2017	12:25: 8.3	6.78	-73.18	145	1.4	0.4	232	11	ZAPATOCA (SANTANDER)
1298	Jul 30 2017	12:35:24.3	6.66	-73.25	148	1.0	0.3	98	10	BARICHARA (SANTANDER)
1299	Jul 30 2017	12:58:16.2	6.72	-73.17	150	1.5	0.3	228	8	VILLANUEVA (SANTANDER)
1300	Jul 30 2017	13:06: 4.1	4.83	-75.34	31	1.2	0.1	125	10	MURILLO (TOLIMA)
1301	Jul 30 2017	13:58: 7.6	6.85	-73.03	148	1.7	0.5	230	15	LOS SANTOS (SANTANDER)
1302	Jul 30 2017	14:30: 8.6	6.85	-73.07	142	1.5	0.5	144	16	LOS SANTOS (SANTANDER)
1303	Jul 30 2017	14:34:41.4	6.83	-73.03	142	1.4	0.2	251	9	CEPITA (SANTANDER)
1304	Jul 30 2017	14:40:34.0	6.48	-76.79	9	2.1	0.6	133	22	VIGIA DEL FUERTE (ANTIOQUIA)
1305	Jul 30 2017	14:56:28.2	7.71	-74.61	36	1.1	0.2	212	8	EL BAGRE (ANTIOQUIA)
1306	Jul 30 2017	15:18:41.1	6.14	-73.68	110	1.3	0.4	131	8	CHIPATA (SANTANDER)
1307	Jul 30 2017	15:24:42.4	6.77	-73.13	144	1.6	0.4	219	16	LOS SANTOS (SANTANDER)
1308	Jul 30 2017	15:41:38.6	6.81	-73.13	143	2.0	0.5	102	25	LOS SANTOS (SANTANDER)
1309	Jul 30 2017	15:43: 3.3	6.93	-77.12	Sup	2.0	0.6	153	20	MURINDO (ANTIOQUIA)
1310	Jul 30 2017	16:04:13.7	3.61	-75.74	Sup	1.4	0.1	118	8	RIOBLANCO (TOLIMA)
1311	Jul 30 2017	16:19:21.7	6.81	-76.14	Sup	1.9	0.5	170	17	FRONTINO (ANTIOQUIA)
1312	Jul 30 2017	17:21:21.1	6.80	-73.14	145	2.5	0.6	73	47	LOS SANTOS (SANTANDER)
1313	Jul 30 2017	18:08:45.9	5.28	-77.72	26	1.8	0.4	238	19	O. PACIFICO CENTRO
1314	Jul 30 2017	18:10:19.8	7.26	-75.61	Sup	1.4	0.3	122	12	BRICENO (ANTIOQUIA)
1315	Jul 30 2017	18:53:37.3	7.35	-72.10	11	1.6	0.4	252	12	FRONTERA CON VENEZUELA
1316	Jul 30 2017	19:52:24.1	6.75	-73.21	149	1.4	0.4	225	8	ZAPATOCA (SANTANDER)
1317	Jul 30 2017	20:18:24.1	6.81	-73.12	142	1.7	0.4	241	14	LOS SANTOS (SANTANDER)
1318	Jul 30 2017	20:44: 7.4	6.79	-73.18	132	1.4	0.4	233	10	ZAPATOCA (SANTANDER)
1319	Jul 30 2017	21:08:24.5	7.36	-73.21	116	1.2	0.3	260	8	EL PLAYON (SANTANDER)
1320	Jul 30 2017	21:46:48.3	6.78	-73.15	125	1.6	0.4	236	16	LOS SANTOS (SANTANDER)
1321	Jul 31 2017	00:04: 4.4	6.83	-73.47	113	1.1	0.2	170	9	SAN VICENTE DE CHUCURI (SANTANDER)
1322	Jul 31 2017	01:11:16.7	6.73	-73.14	142	1.5	0.4	139	13	LOS SANTOS (SANTANDER)
1323	Jul 31 2017	01:17: 7.6	6.55	-73.51	109	1.9	0.7	66	35	EL CARMEN (SANTANDER)
1324	Jul 31 2017	01:53:15.9	6.06	-73.60	114	1.4	0.4	226	13	CHIPATA (SANTANDER)
1325	Jul 31 2017	03:16:21.4	5.96	-73.78	111	2.0	0.7	41	36	BOLIVAR (SANTANDER)
1326	Jul 31 2017	03:22: 0.6	7.40	-76.18	7	0.9	0.7	262	8	MUTATA (ANTIOQUIA)
1327	Jul 31 2017	04:26:47.7	6.80	-73.15	147	1.5	0.4	135	17	LOS SANTOS (SANTANDER)
1328	Jul 31 2017	05:37:41.5	4.76	-74.67	8	1.1	0.3	93	17	BELTRAN (CUNDINAMARCA)
1329	Jul 31 2017	05:53: 8.3	1.97	-76.00	Sup	0.7	0.7	134	12	SALADOBLANCO (HUILA)
1330	Jul 31 2017	06:18:53.5	6.75	-72.16	Sup	1.3	0.5	172	15	CUBARA (BOYACA)
1331	Jul 31 2017	07:18:16.6	6.74	-73.12	148	1.1	0.5	141	15	LOS SANTOS (SANTANDER)
1332	Jul 31 2017	07:27:25.4	6.75	-73.10	149	1.6	0.6	125	22	LOS SANTOS (SANTANDER)
1333	Jul 31 2017	07:50:37.2	6.64	-72.94	Sup	2.1	0.7	81	30	ARATOCA (SANTANDER)
1334	Jul 31 2017	08:02:44.8	4.87	-75.44	Sup	1.4	0.4	104	20	SANTA ROSA DE CABAL (RISARALDA)
1335	Jul 31 2017	08:08:44.6	3.24	-78.28	30	2.0	0.7	257	16	O. PACIFICO SUR
1336	Jul 31 2017	09:40:36.3	6.67	-73.21	138	1.0	0.4	224	8	VILLANUEVA (SANTANDER)
1337	Jul 31 2017	10:09:30.2	5.18	-72.97	Sup	1.3	0.6	95	16	SAN EDUARDO (BOYACA)
1338	Jul 31 2017	10:43:34.5	6.86	-73.13	148	2.6	0.8	65	40	LOS SANTOS (SANTANDER)

Cuadro 2: (continuación)

N	FECHA	H.M.S	LAT	LONG	Z	MAG	RMS	GAP	NF	UBICACION
1339	Jul 31 2017	10:45:25.5	10.85	-74.15	Sup	1.7	0.2	155	7	PIVIJAY (MAGDALENA)
1340	Jul 31 2017	10:53: 0.7	3.54	-74.22	Sup	1.7	0.7	92	12	LEJANIAS (META)
1341	Jul 31 2017	11:26:20.8	1.62	-76.11	18	1.7	0.2	172	12	PALESTINA (HUILA)
1342	Jul 31 2017	11:38:26.6	6.76	-73.17	140	1.6	0.4	231	8	LOS SANTOS (SANTANDER)
1343	Jul 31 2017	11:42:58.1	6.71	-73.18	145	1.1	0.2	238	7	VILLANUEVA (SANTANDER)
1344	Jul 31 2017	11:45: 3.2	6.78	-73.37	117	1.4	0.5	198	8	SAN VICENTE DE CHUCURI (SANTANDER)
1345	Jul 31 2017	11:56:58.1	6.71	-73.18	148	1.2	0.2	226	8	VILLANUEVA (SANTANDER)
1346	Jul 31 2017	12:04:21.3	6.78	-73.09	144	1.4	0.3	242	8	LOS SANTOS (SANTANDER)
1347	Jul 31 2017	13:01:18.8	4.50	-73.87	Sup	1.2	0.6	132	11	FOMEQUE (CUNDINAMARCA)
1348	Jul 31 2017	13:49:50.6	6.83	-73.14	150	2.3	0.6	65	36	LOS SANTOS (SANTANDER)
1349	Jul 31 2017	14:14:26.6	6.88	-73.44	116	1.0	0.5	188	10	SAN VICENTE DE CHUCURI (SANTANDER)
1350	Jul 31 2017	14:30:16.6	6.74	-73.19	148	1.2	0.4	227	8	VILLANUEVA (SANTANDER)
1351	Jul 31 2017	15:16:15.9	6.73	-73.21	147	1.1	0.3	222	8	VILLANUEVA (SANTANDER)
1352	Jul 31 2017	15:50:15.3	2.43	-75.25	12	1.5	0.3	189	10	ALGECIRAS (HUILA)
1353	Jul 31 2017	16:25:19.1	7.28	-75.30	7	1.6	0.5	91	10	VALDIVIA (ANTIOQUIA)
1354	Jul 31 2017	16:26: 8.6	6.78	-73.14	138	1.7	0.4	137	11	LOS SANTOS (SANTANDER)
1355	Jul 31 2017	16:55:15.7	4.87	-75.31	Sup	1.6	0.5	133	9	MURILLO (TOLIMA)
1356	Jul 31 2017	17:29:11.4	7.29	-75.46	9	1.6	0.5	102	12	VALDIVIA (ANTIOQUIA)
1357	Jul 31 2017	18:24:54.8	5.27	-73.72	146	2.3	0.5	94	25	LENGUAZAQUE (CUNDINAMARCA)
1358	Jul 31 2017	19:15: 3.9	6.76	-73.16	146	1.8	0.4	136	11	LOS SANTOS (SANTANDER)
1359	Jul 31 2017	19:52:56.8	10.48	-73.40	Sup	1.6	0.5	121	10	PUEBLO BELLO (CESAR)
1360	Jul 31 2017	20:32:41.8	7.19	-74.06	69	1.4	0.4	153	11	PUERTO WILCHES (SANTANDER)
1361	Jul 31 2017	22:27:49.2	6.80	-73.13	148	1.2	0.4	138	10	LOS SANTOS (SANTANDER)
1362	Jul 31 2017	23:36:35.6	6.55	-73.52	108	1.2	0.2	103	11	EL CARMEN (SANTANDER)