

BOLETIN SEMESTRAL

AÑO XVI

Nº 139 - 140 - 141 - 142 - 143 - 144

PERIODO: Julio, Agosto, Setiembre, Octubre, Noviembre
y Diciembre 1991.

CONTENIDO:

PARTE-A: Parámetros sísmicos de los temblores localizados.

PARTE-B: Tiempos de arribo de los sismos regionales, telesismos y temblores con MD > 0 = 4,0 o reportados como sentidos.

ESTACIONES DE LA RED SISMOLOGICA NACIONAL (RSN : ICE-UCR).

| ESTACION | CODIGO | LATITUD | LONGITUD | ELEVACION | |
|---------------|--------|-----------|-----------|-----------|------|
| ADAMS | ACR | 8º39.19' | 83º10.08' | 500 Mts. | 0.17 |
| BUVIS | BUS | 9º33.32' | 83º45.50' | 3487 Mts. | 0.23 |
| CHIRIPA | AR6 | 10º26.75' | 84º54.59' | 1010 Mts. | 0.90 |
| JICARAL | JCR | 9º50.99' | 85º06.71' | 575 Mts. | 0.11 |
| LA LUCHA 2 | LCR2 | 9º44.53' | 84º00.18' | 1730 Mts. | 0.33 |
| LIMON | LIO | 10º00.30' | 83º02.10' | 62 Mts. | 0.51 |
| QUEPOS | QCR | 9º25.67' | 84º09.92' | 45 Mts. | 0.01 |
| SAN RAMON | CGA | 10º04.95' | 84º26.89' | 1160 Mts. | 0.27 |
| U DE COSTA R. | SJS | 9º56.35' | 84º03.25' | 1196 Mts. | 0.23 |
| VISTA DE MAR | VCR | 10º07.59' | 85º37.87' | 960 Mts. | 0.17 |
| VOLCAN IRAZU | ICR | 9º58.80' | 83º49.87' | 3302 Mts. | 0.63 |
| VOLCAN POAS 2 | VPS2 | 10º11.41' | 84º14.12' | 2570 Mts. | 0.50 |
| FORTUNA | FOR | 10º28.30' | 84º40.20' | 400 Mts. | 0.09 |
| PURISCAL | PRS | 9º51.03' | 84º18.67' | 1145 Mts. | 0.19 |
| URASCA | URS | 9º50.10' | 83º46.69' | 1500 Mts. | 0.29 |
| CERRO GALLO | CGA | 10º01.86' | 84º28.54' | 1300 Mts. | 0.30 |

CGA 0.21

EXPLICACION DE LOS DATOS

El presente boletín sismológico trimestral contiene la siguiente información:

- PARTE A:** Eventos locales y parámetros de los sismos localizados mensualmente por las estaciones de la Red Sismológica Nacional (RSN: ICE-UCR).
- PARTE B:** La lectura de los tiempos de arribo para los eventos locales registrados por la RSN con $MD \geq 4,0$, sismos regionales y telesismos en las estaciones SJS, ACR, BUS, AR6, LCR2, LIO, QCR, CGA, VCR, ICR, FOR, JCR, VPS2, PRS, SRA y URS ya que éstas son actualmente las que tienen sus respectivos códigos reconocidos internacionalmente.
- 1- EST. : Código de la estación que registró el evento.
- 2-DIA : Todas las fechas están reportadas en el tiempo meridiano de Greenwich (GMT).
- 3-TIEMPO : Tiempo de origen (PARTE A) y tiempo de arribo de las fases (PARTE B), están dados en horas, minutos, segundos y décimas de segundo (GMT).
- 4-FASE : Una "i" o "e" precede el nombre de la fase para indicar el carácter del arribo: "i" (ímpetu), indica que el primer arribo fue impulsivo y la dirección del primer movimiento es evidente, "e" (emergente), indica un comienzo gradual en el cual la dirección del movimiento es dudosa.
- 5-COMP. : Designa la componente (N, E, o Z), de la estación sismográfica donde el tiempo de arribo fue medido.
- 6-POL. : Polaridad, indicada especialmente para las fases designadas con ímpetu (i). Una C representa un movimiento de compresión nítido, cuando la compresión no es impulsiva se indica con + (más). Una D representa un movimiento de dilatación claro, si no es impulsivo se denota con un - (menos)
- 7-PER : Si se trata de la estación LCR2, entonces se anota si el dato es de período corto (PC), período medio (PM), o período largo (PL).
- 8-MAG(MD) : La magnitud reportada para los eventos locales, está basada en la duración de la señal sísmica en la estación SJS, $MD = -1.21 + 2.38 \log(\text{dur}) + 0.0012$ (dist. hipoc.).
- 9-PROF. : Indica la profundidad en kilómetros a que se produjo el evento.
- 10-RMS : Indica el error medio estándar, que da como resultado de la localización por computadora, a través del programa HYPO71PC, (versión 1: 1985).
- 11-ERH-ERZ: Datos de errores de la localización horizontal (H) y vertical (Z), en kilómetros.
- 12- *** : Datos omitidos por la computadora o localización manual.

13-COMEN-

TARIOS : Indica si el epicentro es de sismos locales (con magnitud $\geq 4,0$). Para telesismos y/o regionales se utiliza el reporte del NEIC (National Earthquake Information Center). Los regionales se refieren a sismos fuera de las zonas limítrofes de Costa Rica.

Nota : La sismicidad en el país es mayor a lo reportado en este boletín. Los eventos localizados que se reportan son los que se registran en la estación (SJS), que es la que está calibrada para el cálculo de la magnitud en base a la duración (ML).

PERSONAL PARTICIPANTE:

Lectura de sismogramas y Procesamiento de los datos:

| | |
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| Magda Taylor Castillo | (UCR) |
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| Eduardo Hernández | (UCR) |
| Asdrubal Vargas | (UCR) |
| Carlos Redondo Ch. | (UCR) |
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Mantenimiento de la RED:

| | |
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| Luis Fernando Brenes B. | (UCR) |
| José Miguel Barrantes | (ICE) |
| Guido Calvo | (ICE) |
| Carlos Cortés | (ICE) |

Supervisión:

| | |
|-----------------------|-------|
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Preparación del Boletín:

Carlos Redondo Chavarría (UCR)

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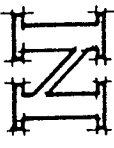
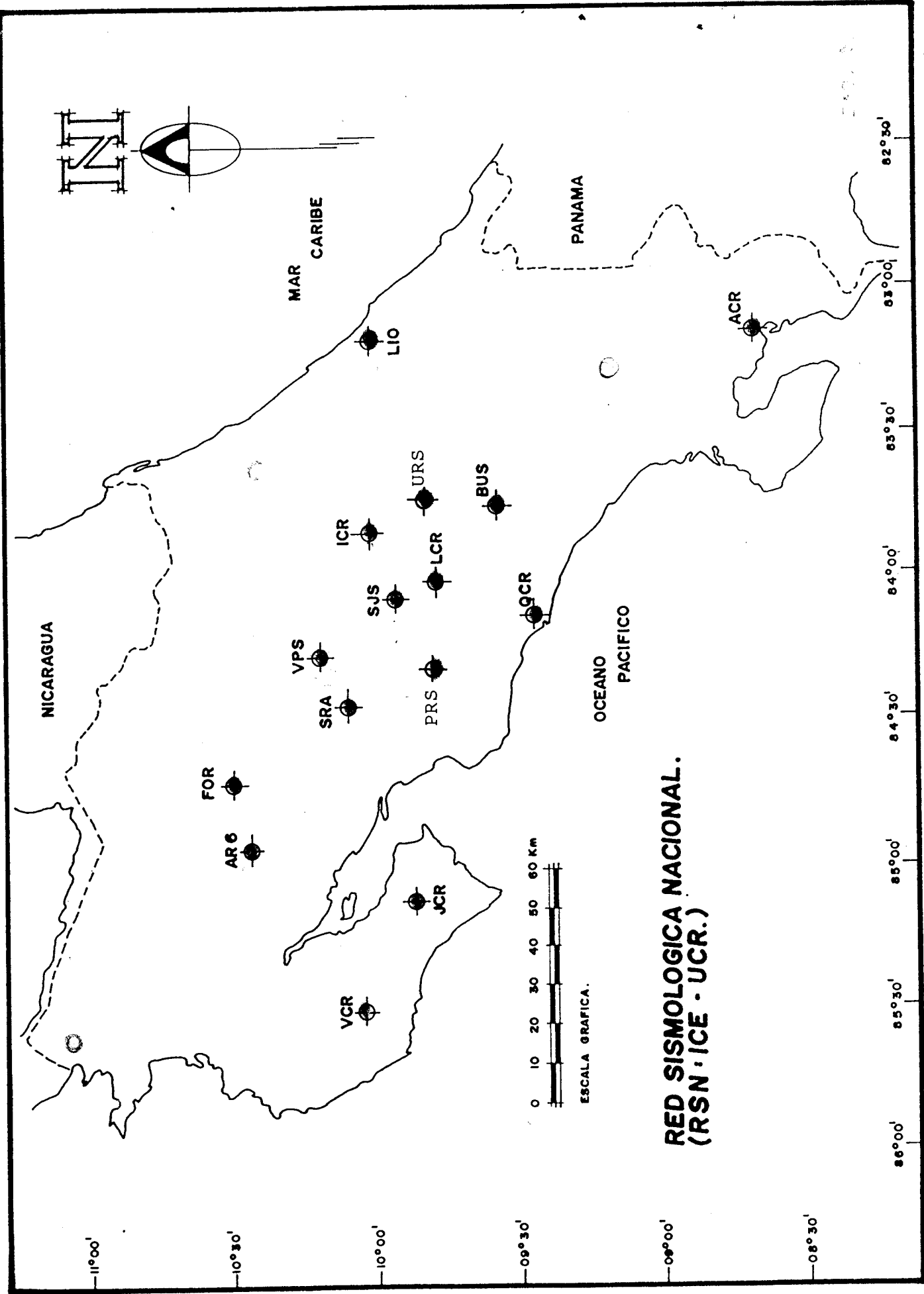
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Nota: A partir de Diciembre 1991 los eventos son corridos y localizados con el Sistema SUN, donado por Noruega, y es por esta razón que el parámetro de GAP no se reporta en dicho mes.



MAR CARIBE

PANAMA

NICARAGUA

OCEANO PACIFICO

FOR

AR6

VCR

JCR

SRA

VPS

SJS

ICR

URS

BUS

LCR

PRS

IGCR

LIO

ACR



ESCALA GRAFICA.

11°00'

10°30'

10°00'

09°30'

09°00'

08°30'

86°00'

85°30'

85°00'

84°30'

84°00'

83°30'

83°00'

82°30'

PARAMETROS DE LOS EVENTOS LOCALIZADOS
PARTE A
JULIO 1991

| No | DIA | T.ORIG. | LATITUD | LONGITUD | DEPTH | MAG | No | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|----------|--------|-----|----|-----|-----|------|-----|-----|
| 001 | 01 | 001139.84 | 8°22.18 | 83°23.42 | 15.93 | 3.8 | 8 | 40 | 290 | 0.35 | 4.3 | *** |
| 002 | 01 | 023600.12 | 9°46.64 | 83°24.09 | 11.20 | 3.1 | 8 | 46 | 233 | 0.25 | 2.8 | 5.0 |
| 003 | 01 | 064330.25 | 9°27.74 | 82°54.65 | 55.18 | 3.3 | 5 | 94 | 337 | 0.11 | 9.8 | *** |
| 004 | 01 | 171417.28 | 9°37.93 | 82°28.29 | 12.00 | 3.5 | 3 | 133 | 296 | 0.16 | *** | *** |
| 005 | 02 | 000934.05 | 9°46.63 | 83°17.70 | 11.52 | 4.5 | 6 | 53 | 243 | 0.12 | 2.0 | 1.9 |
| 006 | 02 | 043916.92 | 9°51.09 | 85°06.81 | 5.00 | 5.0 | 3 | 0 | 309 | 0.16 | *** | *** |
| 007 | 02 | 052610.78 | 8°39.59 | 83°12.67 | 181.18 | 4.5 | 4 | 5 | 228 | 0.02 | *** | *** |
| 008 | 02 | 065314.23 | 9°41.94 | 83°56.18 | 10.33 | 2.8 | 4 | 25 | 190 | 0.23 | *** | *** |
| 009 | 02 | 195437.49 | 10°24.79 | 85°38.41 | 24.75 | 4.9 | 9 | 34 | 268 | 0.22 | 4.9 | 1.6 |
| 010 | 02 | 202057.03 | 10°18.92 | 85°40.55 | 29.71 | 4.8 | 9 | 21 | 279 | 0.28 | 6.1 | 1.8 |
| 011 | 03 | 003200.82 | 9°47.48 | 83°18.85 | 15.00 | 4.2 | 7 | 76 | 236 | 0.11 | 2.2 | 2.0 |
| 012 | 03 | 023930.10 | 10°01.28 | 84°13.90 | 69.29 | 3.9 | 7 | 9 | 188 | 0.25 | 6.4 | 3.8 |
| 013 | 03 | 060901.86 | 10°20.65 | 85°41.39 | 29.94 | 4.9 | 8 | 25 | 278 | 0.20 | 4.9 | 1.5 |
| 014 | 03 | 145608.91 | 9°43.28 | 83°19.59 | 26.68 | 3.8 | 10 | 60 | 234 | 0.07 | 1.2 | 2.6 |
| 015 | 03 | 172123.16 | 9°16.95 | 83°16.69 | 5.00 | 3.2 | 4 | 65 | 212 | 0.11 | *** | *** |
| 016 | 03 | 210933.77 | 9°49.12 | 83°22.40 | 6.55 | 3.5 | 7 | 51 | 241 | 0.22 | 2.0 | 4.2 |
| 017 | 04 | 080434.49 | 9°39.67 | 83°22.54 | 95.02 | 3.4 | 5 | 44 | 223 | 0.14 | 2.7 | 2.3 |
| 018 | 04 | 115421.51 | 9°58.60 | 83°30.83 | 36.47 | 3.1 | 5 | 35 | 255 | 0.48 | 2.0 | 1.4 |
| 019 | 04 | 154408.58 | 8°27.94 | 83°59.25 | 100.52 | 4.5 | 5 | 93 | 273 | 0.13 | 5.3 | 5.0 |
| 020 | 04 | 190920.88 | 9°33.42 | 83°39.99 | 14.77 | 2.7 | 8 | 10 | 172 | 0.37 | 4.2 | 2.9 |
| 021 | 05 | 095802.13 | 9°24.67 | 84°25.67 | 29.11 | 3.1 | 11 | 29 | 180 | 0.20 | 1.5 | 1.3 |
| 022 | 05 | 191707.31 | 9°40.86 | 83°51.73 | 15.00 | 2.7 | 5 | 17 | 177 | 0.13 | 1.1 | 0.7 |
| 023 | 05 | 192646.41 | 9°42.79 | 83°28.28 | 22.38 | 4.2 | 7 | 36 | 233 | 0.33 | 8.7 | 4.3 |
| 024 | 05 | 215828.05 | 9°42.44 | 82°45.07 | 20.39 | 3.8 | 7 | 112 | 277 | 0.28 | 0.8 | 3.2 |
| 025 | 05 | 233537.34 | 9°49.33 | 84°10.47 | 6.20 | 3.4 | 10 | 15 | 124 | 0.37 | 1.9 | 1.8 |
| 026 | 06 | 021935.61 | 9°23.61 | 84°26.97 | 29.44 | 2.8 | 9 | 31 | 222 | 0.27 | 3.1 | 3.5 |
| 027 | 06 | 085940.12 | 9°56.45 | 84°01.22 | 6.76 | 2.6 | 6 | 4 | 171 | 0.20 | 2.2 | 1.3 |
| 028 | 06 | 170813.93 | 9°48.33 | 83°18.55 | 9.34 | 3.1 | 7 | 57 | 244 | 0.35 | 5.1 | 5.1 |
| 029 | 06 | 205627.69 | 9°39.47 | 82°57.58 | 16.89 | 3.4 | 11 | 88 | 261 | 0.36 | 2.1 | 3.9 |
| 030 | 07 | 022147.87 | 9°36.37 | 83°52.98 | 20.38 | 3.4 | 9 | 15 | 125 | 0.23 | 1.4 | 2.1 |
| 031 | 07 | 094850.48 | 9°47.02 | 84°17.79 | 5.58 | 2.6 | 10 | 8 | 162 | 0.39 | 2.9 | 2.5 |
| 032 | 08 | 113006.95 | 9°22.65 | 84°27.90 | 24.67 | 2.9 | 14 | 33 | 184 | 0.37 | 2.3 | 2.4 |
| 033 | 09 | 012414.90 | 9°58.40 | 83°03.52 | 10.00 | 3.5 | 14 | 76 | 274 | 0.30 | 3.0 | 3.5 |
| 034 | 09 | 081930.42 | 9°47.01 | 82°48.56 | 24.34 | 3.9 | 10 | 106 | 277 | 0.42 | 5.6 | 6.4 |
| 035 | 09 | 085851.89 | 9°47.58 | 82°52.39 | 27.78 | 4.9 | 11 | 89 | 273 | 0.25 | 5.4 | 4.8 |
| 036 | 09 | 091123.95 | 9°46.86 | 82°54.99 | 28.07 | 3.7 | 10 | 96 | 270 | 0.23 | 2.4 | 4.1 |
| 037 | 09 | 092718.26 | 9°46.26 | 82°51.35 | 27.11 | 4.2 | 11 | 102 | 273 | 0.26 | 2.4 | 1.8 |
| 038 | 09 | 111004.91 | 7°56.20 | 83°01.68 | 5.97 | 4.0 | 11 | 81 | 321 | 0.24 | 3.9 | 2.6 |
| 039 | 09 | 181652.14 | 9°53.00 | 82°40.00 | 15.00 | 4.5 | 11 | 120 | 282 | 0.39 | *** | *** |
| 040 | 09 | 195350.05 | 9°43.11 | 83°25.68 | 12.19 | 2.8 | 6 | 40 | 300 | 0.12 | 1.6 | 0.4 |
| 041 | 10 | 033112.96 | 9°25.77 | 84°28.57 | 12.26 | 3.4 | 13 | 34 | 180 | 0.33 | 1.8 | 2.2 |
| 042 | 10 | 220333.93 | 9°22.68 | 82°45.95 | 14.74 | 3.2 | 9 | 92 | 269 | 0.31 | 5.0 | *** |
| 043 | 10 | 222356.22 | 9°11.16 | 83°41.35 | 36.86 | 4.3 | 6 | 42 | 303 | 0.35 | *** | 4.6 |
| 044 | 11 | 025505.83 | 9°11.58 | 83°45.60 | 40.23 | 3.5 | 5 | 40 | 206 | 0.29 | *** | 3.2 |
| 045 | 11 | 153725.90 | 9°51.35 | 84°11.21 | 12.76 | 3.2 | 5 | 17 | 148 | 0.33 | 2.8 | 5.1 |

JULIO 1991

| No | DIA | T. ORIG. | LAT | TUD | LONGITUD | DEPTH | MAG | No | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|-----|----------|-------|-----|----|-----|-----|------|------|-----|
| 046 | 11 | 200120.57 | 9°20.34 | | 84°24.02 | 12.44 | 2.9 | 5 | 30 | 319 | 0.08 | 2.2 | 1.2 |
| 047 | 12 | 074740.30 | 9°51.25 | | 83°31.20 | 10.11 | 3.8 | 11 | 28 | 286 | 0.27 | 2.7 | 3.1 |
| 048 | 12 | 075129.71 | 9°50.20 | | 83°30.04 | 15.40 | 2.9 | 4 | 30 | 289 | 0.10 | *** | *** |
| 049 | 12 | 075644.24 | 9°50.52 | | 83°23.93 | 7.72 | 4.2 | 10 | 42 | 2.4 | 0.17 | 1.7 | 2.5 |
| 050 | 12 | 083939.09 | 9°58.84 | | 85°37.97 | 25.43 | 3.9 | 4 | 16 | 258 | 0.22 | *** | *** |
| 051 | 12 | 151213.90 | 9°59.94 | | 83°49.97 | 4.42 | 3.6 | 5 | 3 | 267 | 0.12 | 5.2 | 1.6 |
| 052 | 13 | 094121.29 | 9°53.45 | | 83°07.48 | 31.35 | 3.5 | 8 | 72 | 265 | 0.19 | 6.3 | 8.3 |
| 053 | 13 | 095650.48 | 9°57.80 | | 83°02.02 | 29.95 | 3.5 | 8 | 83 | 277 | 0.38 | 7.9 | 4.8 |
| 054 | 13 | 111902.66 | 9°44.63 | | 83°54.38 | 13.23 | 2.6 | 6 | 11 | 127 | 0.45 | 1.9 | 3.8 |
| 055 | 13 | 221427.37 | 9°54.04 | | 84°26.30 | 17.51 | 3.0 | 5 | 15 | 334 | 0.09 | 4.3 | 1.4 |
| 056 | 14 | 031045.91 | 8°32.72 | | 83°41.98 | 29.98 | 3.5 | 6 | 136 | 339 | 0.09 | 2.2 | 1.0 |
| 057 | 14 | 065053.61 | 9°30.70 | | 83°46.92 | 21.27 | 3.6 | 11 | 5 | 144 | 0.20 | 1.4 | 1.8 |
| 058 | 14 | 103646.89 | 9°39.71 | | 82°57.92 | 35.99 | 3.1 | 11 | 88 | 261 | 0.30 | 2.7 | 1.5 |
| 059 | 14 | 103741.02 | 9°34.61 | | 83°01.43 | 39.62 | 3.6 | 7 | 81 | 252 | 0.39 | 6.6 | 2.9 |
| 060 | 15 | 032735.97 | 9°34.30 | | 85°02.97 | 31.10 | 4.0 | 6 | 87 | 338 | 0.25 | 8.1 | 2.0 |
| 061 | 15 | 053209.81 | 10°14.57 | | 83°59.68 | 12.68 | 3.1 | 5 | 34 | 289 | 0.19 | 4.7 | 3.6 |
| 062 | 15 | 061007.61 | 9°47.57 | | 83°24.44 | 11.56 | 3.5 | 9 | 41 | 234 | 0.15 | 1.7 | 1.5 |
| 063 | 15 | 102019.95 | 9°16.56 | | 85°01.30 | 30.00 | 3.7 | 9 | 101 | 247 | 0.38 | 6.6 | 2.6 |
| 064 | 15 | 145824.90 | 9°33.52 | | 84°56.70 | 33.01 | 3.5 | 9 | 77 | 220 | 0.32 | 4.6 | 2.0 |
| 065 | 16 | 185721.91 | 10°00.69 | | 84°07.82 | 23.14 | 3.9 | 7 | 6 | 182 | 0.40 | 3.4 | 2.9 |
| 066 | 17 | 012847.25 | 9°43.55 | | 83°43.03 | 64.00 | 3.3 | 5 | 15 | 297 | 0.14 | 2.7 | 0.8 |
| 067 | 17 | 023316.92 | 10°36.69 | | 86°15.99 | 25.32 | 4.0 | 4 | 88 | 339 | 0.46 | *** | *** |
| 068 | 17 | 135041.67 | 9°28.47 | | 83°38.29 | 13.48 | 3.5 | 8 | 43 | 171 | 0.19 | 1.5 | 1.2 |
| 069 | 17 | 180809.44 | 9°51.67 | | 83°22.74 | 15.44 | 4.4 | 10 | 45 | 235 | 0.30 | 3.8 | 3.5 |
| 070 | 19 | 024241.14 | 9°34.69 | | 83°34.35 | 12.94 | 3.5 | 9 | 21 | 189 | 0.18 | 1.9 | 1.8 |
| 071 | 19 | 032502.27 | 9°50.65 | | 84°00.03 | 6.04 | 2.9 | 7 | 11 | 90 | 0.34 | 0.8 | 0.8 |
| 072 | 19 | 040220.35 | 10°07.69 | | 86°04.14 | 40.09 | 4.3 | 6 | 48 | 340 | 0.40 | 26.4 | 4.3 |
| 073 | 19 | 055806.23 | 10°02.64 | | 83°49.97 | 2.25 | 2.5 | 5 | 7 | 281 | 0.34 | 0.3 | 0.1 |
| 074 | 19 | 213937.08 | 9°54.38 | | 84°03.35 | 22.29 | 4.0 | 4 | 4 | 201 | 0.17 | *** | *** |
| 075 | 23 | 014550.40 | 9°36.42 | | 83°56.08 | 26.64 | 4.8 | 12 | 21 | 269 | 0.33 | 11.4 | 8.1 |
| 076 | 23 | 064914.63 | 9°14.80 | | 83°38.46 | 35.95 | 3.2 | 8 | 68 | 171 | 0.48 | *** | *** |
| 077 | 23 | 144909.59 | 9°45.07 | | 83°09.32 | 24.64 | 3.3 | 7 | 26 | 165 | 0.14 | 3.0 | 8.2 |
| 078 | 26 | 002834.42 | 9°46.64 | | 82°46.76 | 37.69 | 3.9 | 8 | 41 | 256 | 0.39 | *** | *** |
| 079 | 26 | 030201.36 | 9°36.95 | | 84°39.76 | 37.38 | 3.0 | 11 | 47 | 204 | 0.30 | 4.0 | 5.3 |
| 080 | 26 | 210442.93 | 9°45.89 | | 83°05.70 | 8.98 | 3.7 | 11 | 75 | 257 | 0.14 | 1.6 | 1.1 |
| 081 | 27 | 032302.97 | 9°36.91 | | 83°32.24 | 16.71 | 2.6 | 4 | 36 | 198 | 0.19 | *** | *** |
| 082 | 27 | 051254.61 | 8°17.10 | | 83°16.96 | 17.64 | 3.4 | 8 | 43 | 291 | 0.21 | 5.1 | 3.5 |
| 083 | 27 | 060835.41 | 9°05.08 | | 83°25.77 | 37.67 | 2.8 | 11 | 63 | 335 | 0.35 | 5.3 | 1.5 |
| 084 | 27 | 122752.12 | 9°30.15 | | 83°50.78 | 19.67 | 3.6 | 12 | 11 | 115 | 0.21 | 1.3 | 1.9 |
| 085 | 27 | 133229.06 | 9°30.23 | | 83°49.48 | 25.00 | 3.8 | 10 | 9 | 115 | 0.39 | 3.0 | 3.2 |
| 086 | 27 | 150827.90 | 9°08.67 | | 84°16.77 | 2.50 | 3.1 | 5 | 73 | 262 | 0.03 | 1.0 | 1.0 |
| 087 | 27 | 153520.80 | 9°23.60 | | 82°47.50 | 5.00 | 3.8 | 10 | 92 | 267 | 0.48 | 7.9 | 8.6 |
| 088 | 27 | 163249.83 | 9°29.63 | | 83°45.60 | 32.58 | 3.0 | 7 | 7 | 171 | 0.25 | 3.7 | 3.3 |
| 089 | 28 | 040241.12 | 9°16.53 | | 82°58.94 | 30.00 | 2.4 | 5 | 72 | 251 | 0.38 | 1.0 | 2.7 |
| 090 | 28 | 053145.50 | 8°48.74 | | 83°14.51 | 28.55 | 3.2 | 7 | 128 | 341 | 0.15 | 5.3 | 2.5 |

JULIO 1991

| No | DIA | T. ORIG. | LAT | TUD | LONGITUD | DEPTH | MAG | No | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|-----|----------|-------|-----|----|-----|-----|------|-----|-----|
| 091 | 28 | 065604.34 | 9°50.09' | | 83°42.64 | 14.42 | 3.7 | 7 | 7 | 229 | 0.39 | 3.7 | 3.0 |
| 092 | 28 | 065919.63 | 9°44.27' | | 83°00.52 | 7.40 | 4.2 | 10 | 85 | 262 | 0.24 | 3.3 | 2.6 |
| 093 | 28 | 173615.69 | 8°17.97' | | 83°08.12 | 11.42 | 3.5 | 7 | 39 | 334 | 0.54 | *** | *** |
| 094 | 29 | 030301.66 | 9°40.74' | | 83°42.11 | 22.88 | 3.2 | 9 | 19 | 176 | 0.40 | 3.7 | 3.0 |
| 095 | 29 | 035859.05 | 9°40.40' | | 83°45.10 | 14.41 | 2.8 | 10 | 13 | 160 | 0.34 | 2.2 | 2.6 |
| 096 | 29 | 171125.96 | 9°01.09' | | 85°02.53 | 99.00 | 3.1 | 5 | 139 | 265 | 0.53 | 3.8 | 9.1 |
| 097 | 30 | 031530.72 | 9°57.66' | | 84°52.89 | 33.16 | 2.8 | 8 | 64 | 173 | 0.12 | 5.1 | 1.5 |
| 098 | 30 | 055835.89 | 9°50.88' | | 83°25.16 | 12.63 | 3.1 | 6 | 39 | 332 | 0.21 | 2.2 | 1.6 |
| 099 | 30 | 113346.10 | 9°52.32' | | 84°00.28 | 12.00 | 2.3 | 8 | 9 | 94 | 0.35 | 1.9 | 3.3 |
| 100 | 30 | 205425.57 | 9°50.88' | | 83°59.95 | 7.10 | 3.0 | 5 | 12 | 89 | 0.20 | 1.2 | 1.1 |
| 101 | 30 | 223459.70 | 9°51.78' | | 83°33.31 | 10.63 | 3.2 | 9 | 25 | 280 | 0.17 | 1.7 | 1.9 |
| 102 | 31 | 064523.77 | 9°14.40' | | 83°51.07 | 42.02 | 2.9 | 8 | 36 | 307 | 0.13 | 2.0 | 1.4 |
| 103 | 31 | 105854.61 | 9°46.91' | | 83°26.92 | 11.68 | 3.2 | 9 | 37 | 296 | 0.14 | 0.9 | 1.2 |
| 104 | 31 | 122355.92 | 9°24.17' | | 82°49.37 | 10.46 | 4.3 | 10 | 104 | 331 | 0.22 | 5.3 | 5.9 |
| 105 | 31 | 144940.59 | 9°45.24' | | 83°13.33 | 18.18 | 4.7 | 9 | 62 | 319 | 0.34 | 6.9 | 9.4 |
| 106 | 31 | 230210.18 | 9°45.68' | | 83°47.84 | 14.85 | 3.1 | 8 | 8 | 250 | 0.33 | 3.5 | 3.9 |
| 107 | 31 | 232011.00 | 9°47.11' | | 84°21.56 | 15.61 | 3.1 | 8 | 9 | 297 | 0.20 | 3.3 | 3.8 |

PGM ANASIS Ver 2.0

Diseño:

Guillermo Á Avila R

FEC m:01-07-1991

FEC M:31-07-1991

GNT=00h-24h

LAT= 7.50°-11.50°

LON=82.50°-86.50°

PRF= 0.0- 999.9 Km

MAG= 0.0- 9.9

SIMBOLOGIA:

M=3 □ M=4 ◇ M=5 +

M=6 △ M=7 ▽ M=8 ○

STA *

BASE.:RSN1991

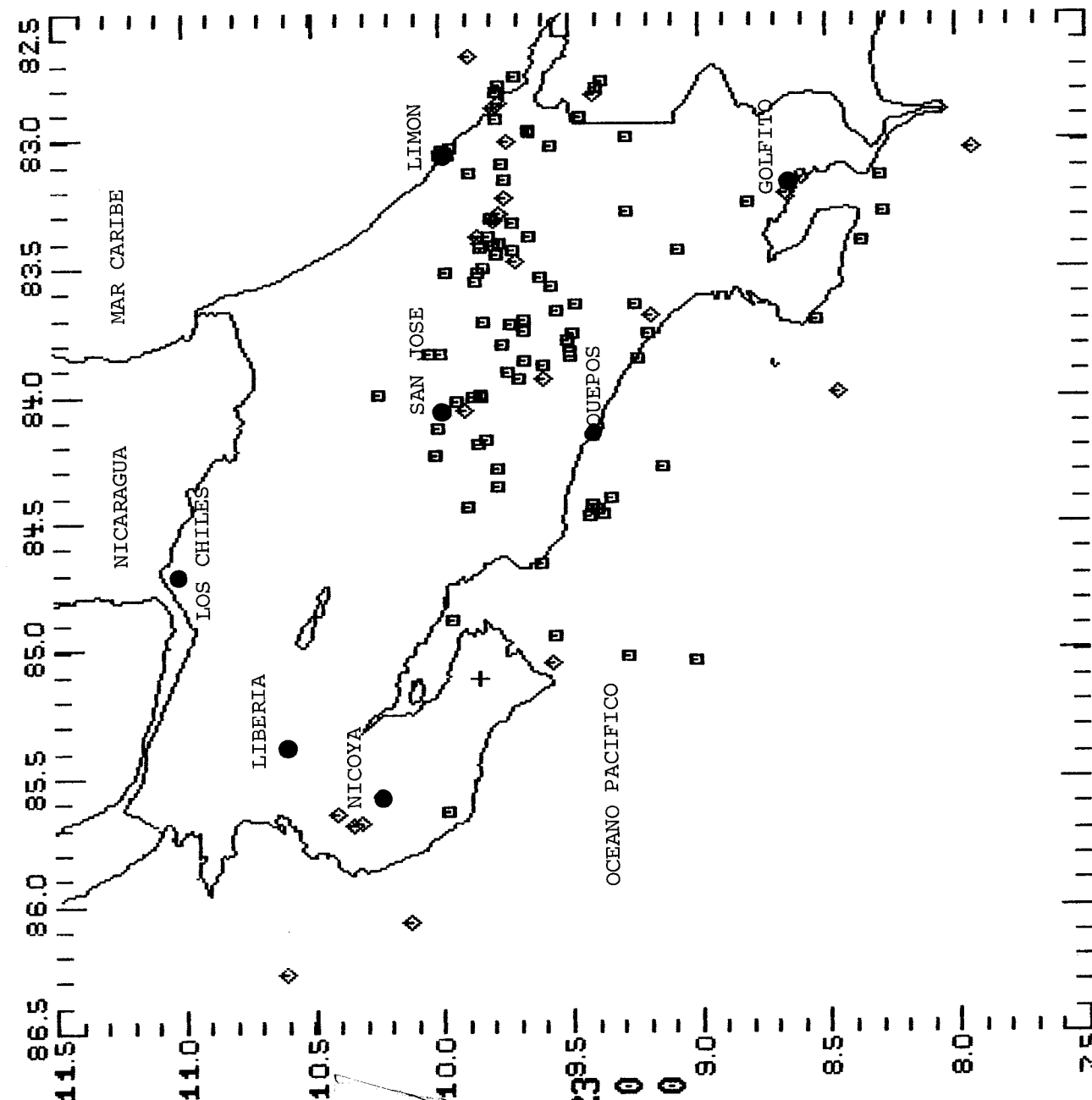
N SIS: 106

M<3.9: 82 4<M<5: 23

5<M<6: 1 6<M<7: 0

7<M<8: 0 M>8 : 0

RED SIMOLOGICA NACIONAL, ICE-UCR MAPA DE EPICENTROS DE COSTA RICA



PARTE B

LECTURAS DE LOS TIEMPOS DE ARRIBO DE LOS SISMOS
REGIONALES, TELESISMOS Y EVENTOS LOCALES CON $M \geq 4,0$

JULIO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|--|-----|-----------|------|------|-----|
| SJS | 01 | 042441.00 | IP | Z | D |
| ACR | 01 | 042420.00 | IP | Z | C |
| | | 2422.90 | S | Z | |
| BUS | 01 | 042436.20 | IP | Z | D |
| ICR | 01 | 042441.70 | IP | Z | C |
| SRA | 01 | 042444.30 | EP | Z | |
| Sur de Panamá, Mb=4,4 | | | | | |
| SJS | 02 | 000949.10 | IP | Z | C |
| URS | 02 | 000944.00 | IP | Z | C |
| BUS | 02 | 000944.50 | IP | Z | C |
| ICR | 02 | 000945.70 | EP | Z | |
| LCR2 | 02 | 000948.00 | IP | Z | C |
| ACR | 02 | 000955.20 | IP | Z | C |
| 32 Km al SW de Limón, Fila Matama, Costa Rica, Md= 4,5 | | | | | |
| SJS | 02 | 043939.00 | IP | Z | D |
| | | 4030.70 | S | Z | |
| JCR | 02 | 043918.40 | IP | Z | C |
| ICR | 02 | 043941.00 | EP | Z | |
| ACR | 02 | 043956.50 | IP | Z | C |
| 16 Km al SE de Jicaral, Pen.Nicoya, Costa Rica Md= 5,0 | | | | | |
| SJS | 02 | 052647.00 | IP | Z | C |
| | | 2708.10 | S | Z | |
| ACR | 02 | 052635.00 | IP | Z | C |
| BUS | 02 | 052639.70 | IP | Z | C |
| ICR | 02 | 052643.30 | IP | Z | D |
| Golfito, Costa Rica Md= 4,5 | | | | | |
| SJS | 02 | 081537.00 | IP | Z | C |
| ACR | 02 | 081513.50 | IP | Z | |
| BUS | 02 | 081529.30 | IP | Z | C |
| | | 081549.30 | S | Z | |
| ICR | 02 | 081535.20 | IP | Z | C |
| Regional | | | | | |
| SJS | 02 | 195507.30 | IP | Z | C |
| VCR | 02 | 195445.00 | IP | Z | C |
| LCR2 | 02 | 195509.00 | IP | Z | |
| ICR | 02 | 195510.00 | IP | Z | |
| BUS | 02 | 195513.80 | EP | Z | |
| ACR | 02 | 195526.50 | EP | Z | |
| JCR | 02 | 195553.10 | IP | Z | C |

JULIO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|--|-----|-----------|------|------|-----|
| FOR | 02 | 195556.20 | IP | Z | |
| URS | 02 | 195511.80 | IP | Z | C |
| 14 Km al S de Sardinal, Liberia, Costa Rica, Md=4,9 | | | | | |
| SJS | 02 | 202126.70 | IP | Z | C |
| ICR | 02 | 202129.10 | IP | Z | |
| LCR2 | 02 | 202127.80 | IP | Z | |
| BUS | 02 | 202132.80 | EP | Z | + |
| ACR | 02 | 202146.00 | EP | Z | |
| VCR | 02 | 202103.80 | IP | Z | C |
| JCR | 02 | 202112.20 | IP | Z | C |
| FOR | 02 | 202117.00 | IP | Z | C |
| URS | 02 | 202130.60 | IP | Z | C |
| 23 Km al S de Sardinal, Liberia, Costa Rica, Md=4,8 | | | | | |
| SJS | 03 | 003216.00 | IP | Z | C |
| BUS | 03 | 003211.80 | IP | Z | C |
| ICR | 03 | 003212.50 | IP | Z | C |
| LCR2 | 03 | 003214.70 | IP | Z | C |
| ACR | 03 | 003223.00 | IP | Z | C |
| VCR | 03 | 003241.00 | IP | Z | D |
| FOR | 03 | 003228.00 | IP | Z | |
| 32 Km al SW de Limón, Costa Rica, Md= 4,2 | | | | | |
| SJS | 03 | 060931.90 | IP | Z | C |
| ICR | 03 | 060934.50 | IP | Z | |
| LCR2 | 03 | 060933.30 | IP | Z | C |
| FOR | 03 | 060922.00 | IP | Z | |
| BUS | 03 | 060937.00 | EP | Z | |
| ACR | 03 | 060951.00 | IP | Z | |
| VCR | 03 | 060909.00 | IP | Z | C |
| JCR | 03 | 060917.50 | IP | Z | C |
| 12 Km al NW de Santa Cruz, Guanacaste, Costa Rica, Md= 4,9 | | | | | |
| SJS | 04 | 120304.50 | IP | Z | D |
| BUS | 04 | 120301.20 | EP | Z | + |
| ICR | 04 | 120305.00 | EP | Z | D |
| ACR | 04 | 120305.00 | IP | Z | C |
| JCR | 04 | 120302.00 | IP | Z | C |
| Regional | | | | | |
| SJS | 04 | 154436.30 | IP | Z | D |
| ACR | 04 | 154428.00 | IP | Z | |
| | | 4442.00 | S | Z | |
| QCR | 04 | 154429.30 | IP | Z | D |
| LCR2 | 04 | 154433.10 | IP | Z | D |
| ICR | 04 | 154436.00 | IP | Z | C |
| Al W de la Península de Osa, Costa Rica Md= 4,0 | | | | | |

JULIO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| SJS | 05 | 192658.40 | IP | Z | C |
| ACR | 05 | 192706.90 | IP | Z | C |
| | | 2721.00 | S | Z | |
| BUS | 05 | 192654.50 | IP | Z | D |
| LCR2 | 05 | 192657.30 | EP | Z | |
| QCR | 05 | 192702.40 | IP | Z | |
| VCR | 05 | 192723.40 | IP | Z | D |
| JCR | 05 | 192715.10 | IP | Z | D |

32 Km SW de Limón, Costa Rica, Md= 4,5

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 06 | 122515.20 | IP | Z | C |
| BUS | 06 | 122510.90 | IP | Z | D |
| LCR2 | 06 | 122514.50 | IP | Z | C |
| URS | 06 | 122514.10 | IP | Z | D |
| | | 2545.30 | S | Z | |
| ICR | 06 | 122517.00 | IP | Z | C |
| | | 2551.00 | S | Z | |
| JCR | 06 | 122518.00 | IP | Z | C |
| VCR | 06 | 122521.00 | EP | Z | - |

Perú, Mb= 6,3

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 09 | 065834.50 | IP | Z | C |
| ICR | 09 | 065833.00 | EP | Z | + |
| URS | 09 | 065832.50 | IP | Z | C |
| BUS | 09 | 065834.00 | EP | Z | - |
| JCR | 09 | 065841.80 | EP | Z | D |
| VCR | 09 | 065843.20 | EP | Z | D |

San Juan, Puerto Rico, Mb= 5,5

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 09 | 090013.70 | IP | Z | C |
| | | 0029.10 | S | Z | |
| ICR | 09 | 090010.00 | IP | Z | |
| LCR2 | 09 | 090012.20 | IP | Z | |
| PRS | 09 | 090017.20 | IP | Z | |
| URS | 09 | 090009.00 | IP | Z | |
| VCR | 09 | 090037.00 | IP | Z | |
| JCR | 09 | 090030.00 | IP | Z | |
| QCR | 09 | 090016.00 | IP | Z | |
| ACR | 09 | 090013.00 | IP | Z | |

25 Km SW de Limón, Costa Rica Md=4,9

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 09 | 092740.50 | IP | Z | D |
| | | 2756.50 | S | Z | |
| BUS | 09 | 092735.60 | IP | Z | |
| ICR | 09 | 092737.00 | IP | Z | C |
| LCR2 | 09 | 092739.00 | IP | Z | |
| ACR | 09 | 092739.80 | IP | Z | |
| QCR | 09 | 092742.60 | IP | Z | C |
| | | 2800.50 | S | Z | |
| PRS | 09 | 092744.10 | IP | Z | |
| | | 2804.10 | S | Z | |

JULIO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|---|-----|-----------|------|------|-----|
| JCR | 09 | 092757.10 | IP | Z | D |
| VCR | 09 | 092804.40 | EP | Z | + |
| 28 Km al SW de Limón, Md= 4,2 | | | | | |
| SJS | 09 | 111044.00 | IP | Z | D |
| ACR | 09 | 111018.90 | IP | Z | |
| | | 1029.00 | S | Z | |
| BUS | 09 | 111036.00 | IP | Z | C |
| | | 1101.20 | S | Z | |
| QCR | 09 | 111038.00 | IP | Z | D |
| URS | 09 | 111041.50 | IP | Z | C |
| | | 1107.80 | S | Z | |
| LCR2 | 09 | 111041.90 | IP | Z | |
| ICR | 09 | 111043.40 | IP | Z | C |
| | | 1115.00 | S | Z | |
| PRS | 09 | 111043.00 | EP | Z | |
| JCR | 09 | 111052.00 | EP | Z | + |
| VCR | 09 | 111059.90 | EP | Z | |
| Fractura de Panamá, Md= 4.0 | | | | | |
| SJS | 09 | 181715.80 | IP | Z | C |
| | | 1732.00 | S | Z | |
| ACR | 09 | 181716.00 | IP | Z | D |
| FOR | 09 | 181726.80 | IP | Z | D |
| JCR | 09 | 181732.00 | IP | Z | D |
| VCR | 09 | 181739.80 | IP | Z | D |
| QCR | 09 | 181719.00 | IP | Z | D |
| | | 1737.90 | S | Z | |
| BUS | 09 | 181712.00 | IP | Z | C |
| VCR | 09 | 181710.30 | IP | Z | C |
| PRS | 09 | 181720.10 | IP | Z | C |
| ICR | 09 | 181712.20 | IP | Z | C |
| LCR2 | 09 | 181714.40 | IP | Z | C |
| 25 Km.al SW de Limón, Costa Rica, Md= 4,5 | | | | | |
| SJS | 10 | 194649.10 | IP | Z | C |
| BUS | 10 | 194642.70 | IP | Z | C |
| URS | 10 | 194646.10 | EP | Z | C |
| LCR2 | 10 | 194630.00 | IP | Z | D |
| ICR | 10 | 194649.10 | EP | Z | - |
| PRS | 10 | 194650.20 | EP | Z | |
| VCR | 10 | 194701.90 | IP | Z | C |
| Sur de Panamá, Mb= 4,5 | | | | | |
| SJS | 10 | 222413.50 | IP | Z | D |
| BUS | 10 | 222405.90 | IP | Z | C |
| LCR2 | 10 | 222410.10 | IP | Z | C |
| URS | 10 | 222409.50 | IP | Z | C |
| ICR | 10 | 222412.10 | IP | Z | D |
| JCR | 10 | 222422.40 | IP | Z | C |
| | | 2454.90 | S | Z | |

JULIO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|---|-----|-----------|------|------|-----|
| VCR | 10 | 222431.30 | IP | Z | D |
| 32 Km al SE de San Isidro de Pérez Zeledón, Costa Rica Md=4,3 | | | | | |
| PRS | 10 | 194650.20 | EP | Z | |
| VCR | 10 | 194701.90 | IP | Z | C |
| Sur de Panamá, Mb= 4,5 | | | | | |
| SJS | 12 | 004206.50 | IP | Z | C |
| ACR | 12 | 004144.60 | IP | Z | - |
| BUS | 12 | 004200.50 | EP | Z | + |
| URS | 12 | 004203.90 | IP | Z | C |
| LCR2 | 12 | 004203.30 | EP | Z | C |
| ICR | 12 | 004206.60 | IP | Z | C |
| PRS | 12 | 004206.30 | EP | Z | |
| Sur de Panamá, Mb=4,7 | | | | | |
| SJS | 12 | 051623.10 | IP | Z | C |
| VCR | 12 | 051603.80 | IP | Z | C |
| PRS | 12 | 051622.10 | EP | Z | |
| LCR2 | 12 | 051624.90 | EP | Z | + |
| ICR | 12 | 051626.00 | EP | Z | D |
| QCR | 12 | 051626.40 | EP | Z | + |
| URS | 12 | 051627.00 | IP | Z | C |
| BUS | 12 | 051629.00 | EP | Z | D |
| Cerca de la Costa de Guatemala, Mb= 4,6 | | | | | |
| SJS | 12 | 075657.40 | IP | Z | D |
| URS | 12 | 075652.10 | IP | Z | D |
| ICR | 12 | 075653.89 | IP | Z | D |
| BUS | 12 | 075654.00 | IP | Z | D |
| LCR2 | 12 | 075656.30 | IP | Z | D |
| QCR | 12 | 075701.00 | IP | Z | |
| PRS | 12 | 075701.40 | IP | Z | + |
| ACR | 12 | 075706.60 | IP | Z | |
| VCR | 12 | 075723.10 | IP | Z | C |
| 32 Km al SW de Limón, Costa Rica Md= 4,2 | | | | | |
| SJS | 14 | 073951.10 | IP | Z | C |
| ACR | 14 | 073912.80 | IP | Z | C |
| BUS | 14 | 073855.00 | IP | Z | C |
| LCR2 | 14 | 073952.20 | IP | Z | D |
| PRS | 14 | 073955.90 | EP | Z | D |
| URS | 14 | 073950.20 | IP | Z | C |
| ICR | 14 | 073946.80 | IP | Z | C |
| VCR | 14 | 073917.90 | IP | Z | D |
| Regional | | | | | |
| SJS | 15 | 032755.70 | IP | Z | C |
| | | 2808.20 | S | Z | |

JULIO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| PRS | 15 | 032751.40 | EP | Z | + |
| VCR | 15 | 032753.80 | IP | Z | C |
| LCR2 | 15 | 032755.20 | IP | Z | D |
| ICR | 15 | 032800.00 | IP | Z | D |
| | | 2830.70 | S | Z | |
| BUS | 15 | 032759.60 | IP | Z | C |
| URS | 15 | 032759.60 | IP | Z | D |

18 Km al SE de Cóbano, Pen. Nicoya, Costa Rica Md=4,0

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 17 | 023354.10 | EP | Z | |
| VCR | 17 | 023332.10 | EP | Z | + |
| LCR2 | 17 | 023357.00 | EP | Z | |
| ICR | 17 | 023404.00 | EP | Z | + |
| URS | 17 | 023359.50 | EP | Z | |
| BUS | 17 | 023407.00 | EP | Z | |

60 Km al W de Playas del Coco, Costa Rica Md=4,0

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 17 | 180822.20 | IP | Z | D |
| ICR | 17 | 180818.90 | IP | Z | C |
| | | 0825.00 | S | Z | |
| LCR2 | 17 | 180821.50 | IP | Z | D |
| URS | 17 | 180817.70 | IP | Z | C |
| PRS | 17 | 180826.90 | IP | Z | D |
| BUS | 17 | 180819.20 | IP | Z | D |
| QCR | 17 | 180826.00 | IP | Z | |
| VCR | 17 | 180848.20 | IP | Z | C |
| ACR | 17 | 180834.90 | IP | Z | D |
| FOR | 17 | 180834.90 | IP | Z | D |

36 Km SW de Limón, Costa Rica, Md= 4,4

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 19 | 040252.80 | EP | Z | C |
| VCR | 19 | 040230.90 | IP | Z | C |
| | | 0238.30 | S | Z | |
| QCR | 19 | 040253.50 | EP | Z | |
| LCR2 | 19 | 040233.25 | IP | Z | D |
| ICR | 19 | 040254.90 | EP | Z | + |
| URS | 19 | 040257.60 | EP | Z | |
| | | 0308.10 | S | Z | |
| BUS | 19 | 040257.30 | EP | Z | |
| ACR | 19 | 040310.50 | EP | Z | |

40 Km al NW de Playa Nosara, Costa Rica Md=4,3

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 19 | 213941.50 | EP | Z | |
| LCR2 | 19 | 213942.50 | EP | Z | |
| ICR | 19 | 213943.70 | EP | Z | |
| URS | 19 | 213943.80 | EP | Z | + |

Alajuelita, Costa Rica Md=4,0

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 23 | 014559.10 | IP | Z | D |
| ICR | 23 | 014559.00 | IP | Z | D |

JULIO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| LCR2 | 23 | 014556.00 | IP | Z | D |
| URS | 23 | 014557.50 | IP | Z | C |
| | | 4602.50 | S | Z | |
| PRS | 23 | 014559.50 | IP | Z | C |
| BUS | 23 | 014553.60 | EP | Z | |
| LIO | 23 | 014603.20 | IP | Z | D |
| ACR | 23 | 014657.50 | IP | Z | D |
| VCR | 23 | 014614.80 | IP | Z | |

15 Km. SW de Dominical, Puntarenas , Costa Rica, Md= 4,8

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 26 | 065021.50 | EP | Z | + |
| VCR | 26 | 065035.00 | EP | Z | |
| SRA | 26 | 065012.50 | EP | Z | |

Telesismo

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 26 | 083602.50 | EP | Z | |
| ACR | 26 | 083607.20 | IP | Z | C |
| SRA | 26 | 083555.00 | EP | Z | |

Telesismo

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 28 | 065939.80 | IP | Z | C |
| | | 5954.00 | S | Z | |
| BUS | 28 | 065934.80 | EP | Z | - |
| URS | 28 | 065934.50 | EP | Z | C |
| ICR | 28 | 065936.40 | IP | Z | D |
| LCR2 | 28 | 065938.40 | EP | Z | + |
| | | 5950.00 | S | Z | |
| ACR | 28 | 065940.10 | IP | Z | D |
| PRS | 28 | 065943.80 | EP | Z | + |
| VCR | 28 | 070004.60 | S | Z | |

26 Km al Sur de Limón, Costa Rica Md= 4,2

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 29 | 091415.80 | EP | Z | + |
| URS | 29 | 091412.70 | IP | Z | C |
| PRS | 29 | 091415.90 | EP | Z | - |
| ICR | 29 | 091416.00 | EP | Z | + |
| | | 1459.70 | S | Z | |
| ACR | 29 | 091353.60 | EP | Z | + |
| | | 1411.00 | S | Z | |
| BUS | 29 | 091408.90 | EP | Z | + |
| | | 1443.60 | S | Z | |
| VCR | 29 | 091428.50 | EP | Z | |
| JCR | 29 | 091420.40 | IP | Z | C |
| SRA | 29 | 091429.10 | EP | Z | + |

Regional

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 31 | 122421.50 | IP | Z | C |
| | | 2440.00 | S | Z | |
| BUS | 31 | 122414.60 | IP | Z | D |
| URS | 31 | 122416.10 | IP | Z | C |
| | | 2431.50 | S | Z | |

JULIO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| ICR | 31 | 122418.50 | IP | Z | C |
| LCR2 | 31 | 122419.60 | EP | Z | + |
| QCR | 31 | 122424.10 | IP | Z | C |
| PRS | 31 | 122425.00 | EP | Z | |
| JCR | 31 | 122435.10 | IP | Z | D |
| | | 2508.40 | S | Z | |
| VCR | 31 | 122443.20 | IP | Z | C |

52 Km al SW de Limón, Costa Rica, Md= 4,3

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 31 | 144956.80 | IP | Z | C |
| URS | 31 | 144951.30 | IP | Z | |
| | | 4959.70 | S | Z | |
| BUS | 31 | 144951.80 | IP | Z | C |
| ICR | 31 | 144953.10 | IP | Z | C |
| LCR2 | 31 | 144955.40 | IP | Z | C |
| QCR | 31 | 144959.00 | IP | Z | C |
| PRS | 31 | 145000.90 | IP | Z | |
| JCR | 31 | 145013.00 | IP | Z | D |
| VCR | 31 | 145021.30 | IP | Z | D |

32 Km al SW de Limón, Fila Matama, Costa Rica, Md= 4,7

PARAMETROS DE LOS EVENTOS LOCALIZADOS
PARTE A
AGOSTO 1991

| No | DIA | T. ORIG. | LATITUD | LONGITUD | DEPTH | MAG | NO | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|---------|----------|-------|-----|----|----|-----|------|-----|-------|
| 001 | 01 | 115401.99 | 9244.85 | 8327.72 | 13.0 | 2.9 | 8 | 39 | 294 | 0.34 | 2.6 | 1.9 |
| 002 | 01 | 225632.27 | 9245.42 | 84202.46 | 16.9 | 4.1 | 7 | 4 | 157 | 0.15 | 1.3 | 1.0 * |
| 003 | 02 | 041417.05 | 9244.63 | 84202.86 | 6.9 | 4.4 | 7 | 5 | 160 | 0.16 | 1.4 | 0.7 * |
| 004 | 02 | 043427.80 | 9246.70 | 84200.28 | 8.3 | 3.9 | 7 | 4 | 105 | 0.25 | 1.5 | 2.3 * |
| 005 | 02 | 104547.16 | 9245.47 | 84202.08 | 4.9 | 3.0 | 8 | 4 | 163 | 0.22 | 0.9 | 0.7 |
| 006 | 03 | 132011.59 | 9251.09 | 84200.28 | 11.2 | 3.3 | 6 | 11 | 126 | 0.17 | 1.6 | 1.9 * |
| 007 | 03 | 132249.47 | 9251.67 | 83259.98 | 13.8 | 3.6 | 8 | 10 | 90 | 0.37 | 1.7 | 1.4 * |
| 008 | 03 | 154638.19 | 9251.01 | 83258.97 | 8.1 | 3.1 | 4 | 13 | 181 | 0.35 | *** | *** * |
| 009 | 04 | 111914.14 | 9239.27 | 84214.73 | 28.9 | 4.0 | 9 | 27 | 128 | 0.08 | 0.7 | 0.7 * |
| 010 | 04 | 211148.23 | 9250.39 | 83203.82 | 9.1 | 3.5 | 11 | 82 | 327 | 0.26 | 2.8 | 1.9 * |
| 011 | 04 | 223130.57 | 9249.11 | 84222.34 | 12.9 | 3.3 | 11 | 8 | 135 | 0.17 | 0.9 | 0.9 |
| 012 | 05 | 051851.84 | 9248.28 | 84204.47 | 10.0 | 3.1 | 8 | 10 | 87 | 0.33 | 0.9 | 1.6 * |
| 013 | 05 | 093729.65 | 9244.63 | 84200.28 | 7.0 | 3.6 | 9 | 0 | 92 | 0.22 | 0.9 | 0.7 * |
| 014 | 05 | 094653.62 | 9244.63 | 84200.29 | 10.2 | 3.4 | 10 | 0 | 92 | 0.30 | 0.9 | 1.3 * |
| 015 | 05 | 200630.27 | 9241.66 | 84203.21 | 19.8 | 3.6 | 8 | 8 | 87 | 0.07 | 0.1 | 0.1 |
| 016 | 06 | 025035.64 | 9232.33 | 83243.47 | 9.9 | 4.0 | 8 | 38 | 269 | 0.23 | 0.8 | 0.7 * |
| 017 | 06 | 105505.23 | 9244.63 | 84201.61 | 17.7 | 4.4 | 7 | 3 | 80 | 0.18 | 1.7 | 2.4 * |
| 018 | 06 | 115505.19 | 9246.29 | 84201.90 | 6.5 | 3.1 | 7 | 5 | 85 | 0.22 | 1.7 | 1.2 * |
| 019 | 06 | 134003.04 | 9242.18 | 84202.96 | 14.4 | 3.5 | 5 | 7 | 235 | 0.21 | 0.6 | 0.4 * |
| 020 | 06 | 152308.78 | 9247.51 | 84202.79 | 4.2 | 3.4 | 8 | 7 | 84 | 0.22 | 0.9 | 1.0 * |
| 021 | 06 | 171433.50 | 9245.29 | 84201.92 | 8.9 | 3.6 | 8 | 3 | 87 | 0.31 | 2.2 | 2.0 * |
| 022 | 06 | 222931.13 | 9246.17 | 84202.27 | 5.4 | 3.6 | 8 | 5 | 86 | 0.19 | 1.2 | 0.8 * |
| 023 | 07 | 190836.16 | 9246.55 | 84200.28 | 5.8 | 3.0 | 6 | 4 | 149 | 0.16 | 1.3 | 0.8 * |
| 024 | 07 | 195900.86 | 9253.86 | 84221.93 | 20.5 | 3.0 | 5 | 22 | 147 | 0.28 | 0.6 | 1.1 |
| 025 | 08 | 233724.09 | 9236.37 | 83239.29 | 15.9 | 3.5 | 12 | 13 | 203 | 0.24 | 2.0 | 1.1 |
| 026 | 09 | 004902.67 | 9244.63 | 84201.42 | 10.0 | 2.6 | 9 | 2 | 103 | 0.32 | 1.5 | 3.3 |
| 027 | 09 | 091727.74 | 9244.58 | 82257.36 | 4.0 | 3.6 | 10 | 90 | 268 | 0.18 | 1.6 | 2.2 |
| 028 | 09 | 093348.67 | 9246.25 | 84202.29 | 5.3 | 4.9 | 7 | 5 | 133 | 0.41 | 3.6 | 2.2 * |
| 029 | 09 | 094037.46 | 9245.82 | 84200.28 | 7.0 | 3.9 | 5 | 2 | 146 | 0.31 | 4.8 | 1.9 * |
| 030 | 09 | 094453.15 | 9245.47 | 84200.28 | 4.8 | 3.0 | 9 | 2 | 145 | 0.33 | 1.9 | 0.7 * |
| 031 | 09 | 095334.43 | 9244.63 | 84200.28 | 7.0 | 3.7 | 5 | 0 | 142 | 0.30 | 4.7 | 1.8 * |
| 032 | 09 | 095735.63 | 9243.23 | 84201.17 | 3.0 | 3.1 | 4 | 3 | 258 | 0.15 | 1.0 | 1.0 * |
| 033 | 09 | 101530.26 | 9248.14 | 84200.28 | 5.7 | 3.2 | 5 | 7 | 155 | 0.05 | 0.6 | 0.3 * |
| 034 | 09 | 102543.12 | 9244.63 | 84200.28 | 7.0 | 3.3 | 7 | 0 | 142 | 0.22 | 1.6 | 0.6 * |
| 035 | 09 | 103710.31 | 9246.94 | 84201.80 | 6.6 | 3.2 | 8 | 5 | 139 | 0.36 | 2.6 | 1.5 * |
| 036 | 09 | 104629.04 | 9246.88 | 84203.26 | 2.3 | 3.7 | 6 | 7 | 128 | 0.29 | 3.3 | 3.9 * |
| 037 | 09 | 104904.58 | 9246.28 | 84201.39 | 7.0 | 2.8 | 7 | 4 | 140 | 0.23 | 1.8 | 0.9 * |
| 038 | 09 | 105303.57 | 9247.88 | 84200.99 | 7.1 | 3.0 | 7 | 6 | 148 | 0.17 | 1.4 | 0.7 * |
| 039 | 09 | 112441.85 | 9247.98 | 84200.28 | 5.0 | 3.1 | 7 | 6 | 154 | 0.24 | 1.9 | 1.0 * |
| 040 | 09 | 175333.96 | 9248.55 | 84200.28 | 5.2 | 4.4 | 6 | 7 | 157 | 0.31 | 3.1 | 1.6 * |
| 041 | 09 | 180057.86 | 9245.42 | 84200.28 | 7.0 | 4.5 | 6 | 2 | 145 | 0.20 | 1.9 | 0.8 * |
| 042 | 09 | 182629.91 | 9246.93 | 84202.61 | 10.3 | 3.4 | 7 | 6 | 140 | 0.19 | 1.7 | 1.5 |
| 043 | 09 | 213758.73 | 9244.63 | 84205.46 | 4.9 | 3.4 | 4 | 10 | 206 | 0.17 | 0.1 | 0.2 * |
| 044 | 09 | 232050.25 | 9244.63 | 84203.56 | 9.1 | 3.6 | 10 | 6 | 143 | 0.44 | 2.5 | 2.5 * |
| 045 | 09 | 233103.80 | 9247023 | 84204.25 | 9.3 | 3.2 | 8 | 9 | 156 | 0.36 | 1.4 | 2.1 * |

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| No | DIA | T. ORIG. | LATITUD | LONGITUD | DEPTH | MAG | NO | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|----------|-------|-----|----|-----|-----|------|-----|-----|
| 046 | 10 | 004424.10 | 9°44.63 | 84°02.28 | 12.0 | 3.0 | 8 | 0 | 148 | 0.30 | 2.3 | 2.2 |
| 047 | 10 | 014255.57 | 9°45.89 | 84°01.86 | 15.9 | 3.6 | 7 | 19 | 140 | 0.27 | 2.4 | 2.9 |
| 048 | 10 | 021750.14 | 9°44.63 | 84°01.14 | 9.7 | 3.7 | 9 | 2 | 106 | 0.37 | 2.5 | 2.6 |
| 049 | 10 | 022811.20 | 9°44.63 | 83°59.62 | 9.1 | 3.4 | 8 | 1 | 146 | 0.35 | 2.4 | 3.2 |
| 050 | 10 | 033711.65 | 9°45.72 | 84°00.96 | 7.8 | 3.3 | 5 | 3 | 141 | 0.08 | 1.2 | 1.1 |
| 051 | 10 | 034145.70 | 9°47.11 | 84°03.34 | 6.3 | 3.0 | 5 | 7 | 155 | 0.09 | 0.3 | 0.4 |
| 052 | 10 | 034640.94 | 9°44.63 | 84°00.28 | 7.0 | 2.8 | 8 | 0 | 142 | 0.37 | 2.2 | 1.3 |
| 053 | 10 | 035606.17 | 9°46.41 | 84°00.98 | 8.2 | 2.7 | 6 | 4 | 143 | 0.21 | 2.2 | 3.3 |
| 054 | 10 | 043405.78 | 9°44.63 | 84°00.28 | 8.8 | 2.8 | 9 | 0 | 142 | 0.25 | 1.2 | 2.3 |
| 055 | 10 | 050525.75 | 9°46.09 | 84°01.15 | 6.6 | 2.9 | 7 | 3 | 141 | 0.34 | 1.8 | 1.1 |
| 056 | 10 | 060018.49 | 9°46.17 | 84°01.47 | 7.5 | 3.3 | 8 | 4 | 139 | 0.18 | 1.1 | 2.0 |
| 057 | 10 | 112227.19 | 9°44.63 | 84°04.88 | 22.2 | 3.1 | 7 | 3 | 141 | 0.34 | 1.8 | 1.1 |
| 058 | 10 | 152559.08 | 9°45.84 | 84°02.66 | 8.0 | 3.3 | 8 | 5 | 141 | 0.36 | 2.5 | 2.3 |
| 059 | 10 | 174327.30 | 9°44.63 | 84°00.28 | 7.0 | 2.9 | 6 | 0 | 142 | 0.29 | 2.8 | 1.7 |
| 060 | 10 | 211737.38 | 9°43.08 | 84°02.54 | 6.2 | 3.1 | 7 | 5 | 144 | 0.36 | 3.2 | 1.9 |
| 061 | 10 | 224814.40 | 9°23.89 | 84°12.48 | 7.0 | 3.0 | 6 | 52 | 221 | 0.33 | 3.4 | 5.5 |
| 062 | 11 | 034701.88 | 9°43.58 | 83°55.18 | 12.7 | 3.0 | 7 | 9 | 144 | 0.50 | 3.7 | 6.3 |
| 063 | 11 | 052553.11 | 9°45.92 | 84°02.74 | 7.8 | 3.5 | 11 | 5 | 141 | 0.27 | 1.2 | 2.4 |
| 064 | 11 | 063616.59 | 9°43.81 | 84°02.20 | 11.1 | 3.3 | 13 | 4 | 143 | 0.30 | 1.3 | 1.4 |
| 065 | 11 | 135000.94 | 9°07.76 | 83°47.61 | 50.0 | 3.3 | 6 | 47 | 197 | 0.10 | 3.6 | 5.4 |
| 066 | 11 | 163315.99 | 9°48.69 | 83°58.56 | 9.1 | 3.6 | 6 | 8 | 114 | 0.17 | 1.2 | 2.1 |
| 067 | 11 | 192010.71 | 9°47.37 | 84°00.25 | 6.6 | 3.1 | 9 | 5 | 97 | 0.43 | 2.8 | 1.4 |
| 068 | 11 | 224000.94 | 10°01.94 | 83°00.83 | 21.2 | 3.0 | 6 | 97 | 281 | 0.19 | 1.9 | 2.4 |
| 069 | 12 | 072802.22 | 9°53.03 | 84°21.26 | 15.0 | 3.0 | 8 | 6 | 144 | 0.24 | 2.5 | 2.0 |
| 070 | 12 | 140737.84 | 9°47.27 | 84°07.01 | 23.2 | 3.5 | 7 | 23 | 171 | 0.10 | 0.8 | 0.7 |
| 071 | 12 | 212938.89 | 9°43.86 | 84°02.23 | 9.6 | 3.4 | 10 | 4 | 153 | 0.40 | 2.3 | 2.4 |
| 072 | 12 | 233205.24 | 9°47.47 | 84°02.72 | 7.0 | 3.2 | 7 | 7 | 144 | 0.48 | 3.7 | 2.9 |
| 073 | 13 | 100335.58 | 9°46.32 | 83°30.43 | 10.2 | 3.8 | 7 | 31 | 286 | 0.21 | 1.9 | 3.0 |
| 074 | 13 | 185243.41 | 9°47.26 | 84°01.33 | 12.0 | 3.4 | 10 | 5 | 125 | 0.35 | 1.6 | 2.4 |
| 075 | 13 | 231400.76 | 9°45.82 | 83°59.61 | 21.7 | 2.7 | 5 | 21 | 151 | 0.04 | 0.2 | 0.4 |
| 076 | 14 | 132855.28 | 9°44.63 | 84°00.28 | 10.5 | 3.1 | 13 | 0 | 72 | 0.24 | 0.5 | 1.0 |
| 077 | 14 | 134915.49 | 9°21.63 | 84°39.64 | 10.9 | 2.7 | 7 | 55 | 226 | 0.25 | 3.6 | 4.3 |
| 078 | 15 | 014657.52 | 9°44.00 | 83°33.06 | 21.7 | 3.1 | 12 | 27 | 209 | 0.32 | 2.6 | 3.7 |
| 079 | 15 | 023400.75 | 9°01.78 | 83°57.58 | 68.6 | 3.3 | 13 | 49 | 188 | 0.11 | 1.1 | 1.7 |
| 080 | 15 | 064509.20 | 9°25.42 | 82°50.34 | 72.2 | 3.3 | 7 | 93 | 264 | 0.09 | 6.4 | 7.7 |
| 081 | 15 | 132013.02 | 7°46.88 | 83°25.61 | 5.5 | 4.0 | 8 | 101 | 300 | 0.06 | 3.5 | 3.1 |
| 082 | 15 | 132929.21 | 9°39.62 | 82°49.19 | 33.6 | 3.8 | 7 | 105 | 272 | 0.24 | 1.2 | 0.5 |
| 083 | 16 | 025035.08 | 9°44.63 | 84°00.68 | 7.1 | 3.3 | 10 | 1 | 79 | 0.11 | 0.3 | 0.2 |
| 084 | 16 | 070626.50 | 9°42.79 | 84°01.62 | 9.1 | 2.8 | 9 | 4 | 85 | 0.07 | 0.4 | 0.6 |
| 085 | 16 | 115510.30 | 9°53.22 | 84°02.65 | 14.1 | 2.8 | 9 | 6 | 112 | 0.24 | 1.8 | 1.4 |
| 086 | 16 | 175917.41 | 9°41.97 | 83°57.75 | 19.9 | 3.1 | 12 | 6 | 91 | 0.14 | 0.2 | 0.2 |
| 087 | 17 | 043735.84 | 9°48.90 | 84°05.97 | 11.6 | 2.8 | 7 | 13 | 107 | 0.25 | 0.6 | 1.0 |
| 088 | 17 | 054409.40 | 9°46.69 | 84°04.07 | 14.3 | 3.6 | 12 | 8 | 114 | 0.26 | 1.1 | 1.4 |
| 089 | 17 | 064750.82 | 9°47.04 | 84°03.10 | 9.4 | 2.8 | 8 | 7 | 129 | 0.24 | 1.7 | 2.2 |
| 090 | 17 | 073228.47 | 9°48.48 | 84°01.96 | 15.0 | 2.6 | 5 | 8 | 142 | 0.12 | 1.4 | 2.2 |

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| No | DIA | T. ORIG. | LATITUD | LONGITUD | DEPTH | MAG | NO | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|----------|-------|-----|----|----|-----|------|-----|------|
| 091 | 17 | 073400.08 | 9°51.35 | 84°22.31 | 16.0 | 2.8 | 10 | 7 | 153 | 0.06 | 0.3 | 0.3 |
| 092 | 17 | 080133.60 | 9°44.63 | 84°00.28 | 12.0 | 2.3 | 8 | 0 | 142 | 0.37 | 1.7 | 2.3 |
| 093 | 17 | 120233.05 | 8°57.50 | 83°10.14 | 70.1 | 4.2 | 10 | 34 | 222 | 0.09 | 1.8 | 0.8 |
| 094 | 17 | 120702.40 | 9°54.16 | 84°03.55 | 20.6 | 2.8 | 8 | 4 | 137 | 0.17 | 2.0 | 1.5 |
| 095 | 17 | 133742.64 | 10°11.86 | 85°28.50 | 25.3 | 4.5 | 9 | 55 | 326 | 0.12 | 1.7 | 1.1 |
| 096 | 18 | 055841.64 | 9°47.78 | 84°02.27 | 10.0 | 2.1 | 5 | 7 | 138 | 0.28 | 0.2 | 0.2 |
| 097 | 18 | 080005.77 | 9°33.71 | 83°30.46 | 13.3 | 3.2 | 14 | 28 | 197 | 0.09 | 0.4 | 0.5 |
| 098 | 18 | 082949.02 | 9°47.71 | 83°58.78 | 7.2 | 2.2 | 4 | 6 | 165 | 0.17 | *** | *** |
| 099 | 18 | 083351.43 | 9°48.55 | 83°59.24 | 15.9 | 2.3 | 6 | 16 | 140 | 0.09 | 1.5 | 1.8 |
| 100 | 18 | 093256.41 | 9°46.56 | 84°03.68 | 6.6 | 2.7 | 5 | 7 | 167 | 0.07 | 0.3 | 0.3 |
| 101 | 18 | 160405.19 | 9°45.40 | 83°57.20 | 6.0 | 2.3 | 6 | 6 | 117 | 0.40 | 4.2 | 4.6 |
| 102 | 18 | 210156.51 | 9°44.48 | 83°21.63 | 8.9 | 3.4 | 13 | 47 | 233 | 0.18 | 0.7 | 1.0* |
| 103 | 18 | 213817.65 | 9°49.63 | 84°00.28 | 11.8 | 3.6 | 6 | 9 | 96 | 0.26 | 1.6 | 1.8* |
| 104 | 19 | 074219.09 | 9°44.63 | 84°00.28 | 16.4 | 2.3 | 7 | 0 | 82 | 0.09 | 0.3 | 0.4 |
| 105 | 19 | 082044.11 | 9°44.32 | 84°04.42 | 5.4 | 3.0 | 6 | 8 | 100 | 0.44 | 2.4 | 2.5 |
| 106 | 19 | 175455.64 | 9°51.62 | 84°23.29 | 15.1 | 3.4 | 5 | 8 | 329 | 0.17 | 0.4 | 0.1 |
| 107 | 20 | 012436.40 | 9°34.19 | 84°40.59 | 42.5 | 2.8 | 5 | 57 | 197 | 0.02 | 0.6 | 2.5 |
| 108 | 20 | 012551.99 | 9°45.35 | 83°59.33 | 10.0 | 2.8 | 7 | 2 | 169 | 0.10 | 0.6 | 0.9 |
| 109 | 20 | 035856.06 | 9°48.16 | 84°03.76 | 13.4 | 3.6 | 6 | 9 | 168 | 0.15 | 0.1 | 0.3 |
| 110 | 20 | 063022.74 | 9°46.88 | 84°02.34 | 16.3 | 2.3 | 6 | 18 | 225 | 0.10 | 1.0 | 2.8 |
| 111 | 20 | 075658.83 | 8°42.77 | 84°04.01 | 34.5 | 2.8 | 6 | 99 | 224 | 0.31 | 0.5 | 0.4 |
| 112 | 20 | 081106.27 | 10°07.82 | 85°00.48 | 104.7 | 3.6 | 10 | 33 | 188 | 0.05 | 0.6 | 0.3 |
| 113 | 20 | 091057.03 | 9°30.61 | 83°15.60 | 59.2 | 3.3 | 10 | 55 | 224 | 0.10 | 0.6 | 0.5 |
| 114 | 21 | 000245.83 | 9°45.46 | 84°01.98 | 6.8 | 3.9 | 7 | 4 | 113 | 0.08 | 0.7 | 0.4 |
| 115 | 21 | 105555.71 | 9°46.88 | 84°00.28 | 10.0 | 3.2 | 6 | 4 | 138 | 0.16 | 1.8 | 2.0 |
| 116 | 22 | 132253.32 | 9°44.86 | 83°59.32 | 5.0 | 3.1 | 6 | 2 | 106 | 0.18 | 0.2 | 0.1 |
| 117 | 22 | 181059.96 | 9°45.05 | 83°27.10 | 10.3 | 3.4 | 7 | 40 | 296 | 0.09 | 1.0 | 1.4 |
| 118 | 23 | 015915.99 | 9°13.78 | 83°23.80 | 27.8 | 3.3 | 7 | 54 | 188 | 0.06 | 0.4 | 0.5 |
| 119 | 23 | 025459.10 | 9°44.71 | 83°59.98 | 9.8 | 3.4 | 8 | 0 | 100 | 0.32 | 2.2 | 2.9* |
| 120 | 23 | 053916.00 | 9°33.20 | 83°20.31 | 19.7 | 4.0 | 8 | 46 | 218 | 0.07 | 0.4 | 0.3 |
| 121 | 23 | 080546.15 | 9°44.63 | 84°00.28 | 7.7 | 3.9 | 9 | 0 | 155 | 0.40 | 2.3 | 3.2* |
| 122 | 23 | 082731.20 | 9°33.87 | 83°52.92 | 17.8 | 3.9 | 8 | 14 | 150 | 0.17 | 0.8 | 1.9* |
| 123 | 23 | 083151.57 | 9°45.56 | 83°58.37 | 5.4 | 3.1 | 5 | 22 | 101 | 0.09 | 0.6 | 0.9 |
| 124 | 23 | 104643.41 | 9°30.83 | 83°52.62 | 19.8 | 3.5 | 5 | 14 | 183 | 0.27 | 1.1 | 2.3 |
| 125 | 23 | 110314.00 | 9°45.73 | 84°02.16 | 25.4 | 3.3 | 8 | 20 | 88 | 0.25 | 0.8 | 2.2 |
| 126 | 23 | 113341.99 | 9°44.05 | 84°01.10 | 10.1 | 3.7 | 9 | 2 | 168 | 0.26 | 2.0 | 1.3* |
| 127 | 23 | 114004.01 | 9°44.63 | 84°01.43 | 3.3 | 2.8 | 8 | 2 | 166 | 0.28 | 1.0 | 0.9 |
| 128 | 24 | 000613.41 | 9°46.66 | 83°59.06 | 8.6 | 2.7 | 6 | 4 | 170 | 0.12 | 0.4 | 0.5 |
| 129 | 24 | 095539.80 | 9°50.24 | 84°03.91 | 23.3 | 2.6 | 5 | 11 | 135 | 0.10 | 0.3 | 0.6 |
| 130 | 24 | 113427.14 | 9°32.67 | 83°59.27 | 15.4 | 2.8 | 7 | 22 | 149 | 0.19 | 0.1 | 0.1 |
| 131 | 24 | 224118.13 | 9°23.01 | 84°39.90 | 7.2 | 3.0 | 10 | 55 | 312 | 0.18 | 2.4 | 2.3 |
| 132 | 24 | 235813.84 | 9°24.96 | 84°33.28 | 32.6 | 2.6 | 4 | 70 | 324 | 0.10 | *** | *** |
| 133 | 25 | 075725.82 | 9°46.05 | 84°17.42 | 15.0 | 2.8 | 3 | 32 | 319 | 0.07 | *** | *** |
| 134 | 25 | 082510.94 | 9°36.14 | 84°00.27 | 8.3 | 2.8 | 6 | 15 | 122 | 0.19 | 0.5 | 6.1 |
| 135 | 25 | 090553.53 | 9°46.26 | 83°16.18 | 22.7 | 3.1 | 7 | 56 | 253 | 0.05 | 0.4 | 1.6 |

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| No | DIA | T. ORIG. | LATITUD | LONGITUD | DEPTH | MAG | NO | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|----------|-------|-----|----|-----|-----|------|------|------|
| 136 | 26 | 010108.32 | 9°45.62 | 84°03.18 | 14.5 | 2.6 | 7 | 6 | 235 | 0.06 | 0.2 | 0.4 |
| 137 | 26 | 014113.03 | 9°42.02 | 83°58.60 | 18.7 | 2.8 | 11 | 26 | 91 | 0.12 | 0.5 | 1.8 |
| 138 | 26 | 024844.86 | 9°39.37 | 83°58.42 | 25.3 | 2.6 | 6 | 26 | 124 | 0.19 | 2.4 | 6.2 |
| 139 | 26 | 025812.73 | 9°37.93 | 84°00.43 | 14.4 | 2.6 | 7 | 12 | 134 | 0.03 | 0.1 | 0.1 |
| 140 | 26 | 031143.44 | 9°40.18 | 84°11.75 | 6.7 | 3.1 | 9 | 23 | 155 | 0.41 | 1.7 | 3.8* |
| 141 | 26 | 032006.72 | 10°09.00 | 85°38.68 | 24.2 | 4.9 | 9 | 3 | 303 | 0.13 | 3.9 | 0.8* |
| 142 | 26 | 074944.87 | 9°40.28 | 84°11.83 | 6.9 | 2.8 | 10 | 23 | 155 | 0.35 | 1.0 | 2.4* |
| 143 | 26 | 101824.22 | 9°29.68 | 82°45.02 | 25.0 | 4.0 | 8 | 104 | 277 | 0.18 | 6.8 | 2.5* |
| 144 | 26 | 102018.08 | 9°30.07 | 82°43.17 | 20.7 | 4.1 | 5 | 106 | 285 | 0.14 | 22.6 | 8.9* |
| 145 | 26 | 130007.72 | 9°34.55 | 85°49.90 | 21.6 | 4.2 | 10 | 65 | 271 | 0.17 | 0.9 | 0.6* |
| 146 | 26 | 135814.46 | 9°53.00 | 84°08.00 | 59.6✓ | 3.0 | 5 | 11 | 154 | 0.19 | 0.7 | 1.6 |
| 147 | 26 | 141859.89 | 9°45.46 | 84°01.19 | 6.6 | 3.2 | 7 | 3 | 85 | 0.43 | 1.1 | 0.8 |
| 148 | 26 | 163445.82 | 9°48.89 | 84°02.17 | 6.1 | 2.6 | 6 | 9 | 196 | 0.28 | 4.6 | 3.9 |
| 149 | 26 | 175521.12 | 9°36.32 | 83°25.41 | 85.2✓ | 3.0 | 6 | 37 | 227 | 0.24 | 1.9 | 0.9 |
| 150 | 26 | 195249.02 | 9°22.30 | 83°53.03 | 64.8✓ | 2.8 | 13 | 25 | 158 | 0.32 | 3.8 | 3.5 |
| 151 | 26 | 233607.23 | 9°38.61 | 84°18.98 | 29.2 | 2.6 | 8 | 23 | 139 | 0.12 | 0.4 | 0.5 |
| 152 | 27 | 064935.26 | 9°29.72 | 83°36.42 | 11.4 | 3.0 | 6 | 18 | 198 | 0.12 | 2.3 | 3.9 |
| 153 | 27 | 065336.06 | 9°25.10 | 83°45.90 | 10.4 | 3.2 | 6 | 15 | 139 | 0.10 | 0.2 | 0.5 |
| 154 | 27 | 133526.36 | 9°33.42 | 83°40.75 | 19.7 | 3.8 | 10 | 9 | 195 | 0.36 | 4.8 | 3.8* |
| 155 | 28 | 023610.34 | 9°45.77 | 84°13.24 | 15.2 | 3.3 | 5 | 24 | 266 | 0.06 | 2.1 | 0.9 |
| 156 | 28 | 105615.56 | 9°42.00 | 84°08.36 | 12.3 | 3.1 | 13 | 16 | 127 | 0.05 | 0.1 | 0.3* |
| 157 | 28 | 173430.86 | 9°56.97 | 83°52.08 | 26.0 | 2.8 | 5 | 5 | 143 | 0.14 | 0.3 | 0.3 |
| 158 | 28 | 215431.36 | 9°43.08 | 83°58.48 | 3.9 | 2.6 | 6 | 4 | 99 | 0.33 | 0.6 | 0.7 |
| 159 | 28 | 230225.64 | 9°44.63 | 84°00.28 | 6.0 | 2.6 | 6 | 0 | 92 | 0.11 | 0.8 | 0.5 |
| 160 | 29 | 013319.94 | 9°45.56 | 84°03.35 | 16.9 | 2.8 | 6 | 20 | 86 | 0.39 | 0.9 | 3.4 |
| 161 | 29 | 033448.97 | 8°54.65 | 83°43.18 | 31.0✓ | 3.3 | 8 | 67 | 189 | 0.34 | 0.6 | 0.7 |
| 162 | 29 | 111044.52 | 9°46.88 | 84°00.68 | 8.4 | 3.4 | 11 | 4 | 90 | 0.09 | 0.1 | 0.2* |
| 163 | 29 | 112053.12 | 9°38.50 | 83°29.54 | 13.8 | 2.8 | 8 | 31 | 207 | 0.23 | 2.3 | 2.1 |
| 164 | 29 | 181506.12 | 8°54.31 | 83°03.44 | 13.0 | 3.8 | 12 | 30 | 239 | 0.16 | 2.1 | 3.0 |
| 165 | 29 | 193552.99 | 9°52.06 | 84°21.82 | 57.4✓ | 3.5 | 7 | 35 | 168 | 0.05 | 0.5 | 0.6 |
| 166 | 30 | 010907.23 | 9°44.26 | 84°26.31 | 23.7 | 3.3 | 6 | 38 | 141 | 0.19 | 0.7 | 4.0 |
| 167 | 30 | 094020.07 | 9°25.74 | 83°52.65 | 71.8✓ | 3.0 | 9 | 19 | 132 | 0.02 | 0.2 | 0.2 |
| 168 | 30 | 141008.00 | 8°53.77 | 83°08.39 | 28.4 | 3.5 | 9 | 27 | 219 | 0.22 | 1.8 | 0.7 |
| 169 | 30 | 180627.02 | 9°39.44 | 82°28.49 | 25.2 | 3.9 | 9 | 135 | 291 | 0.26 | 1.2 | 1.0 |
| 170 | 31 | 123841.98 | 9°25.39 | 82°43.52 | 31.3✓ | 3.8 | 9 | 98 | 273 | 0.40 | 4.7 | 3.4 |
| 171 | 31 | 184849.25 | 9°27.83 | 82°54.80 | 28.7 | 3.3 | 6 | 93 | 264 | 0.21 | 8.7 | *** |
| 172 | 31 | 193950.60 | 8°54.99 | 82°52.66 | 22.2 | 3.5 | 12 | 43 | 269 | 0.22 | 2.0 | 1.9 |
| 173 | 31 | 214613.69 | 9°40.02 | 83°57.77 | 5.8 | 4.1 | 6 | 9 | 112 | 0.13 | 1.1 | 0.9* |

PGM ANASIS Ver 2.0

Diseño:

Guillermo Á Avila R

FEC m:01-08-1991

FEC M:31-08-1991

GMT=00h-24h

LAT= 7.50°-11.50°

LON=82.50°-86.50°

PRF= 0.0- 999.9 Km

MAG= 0.0- 9.9

SIMBOLOGIA:

M=3 □ M=4 ◇ M=5 +

M=6 △ M=7 ▽ M=8 ○

STA *

BASE.:RSN1991

N SIS: 169

M<3.9: 153 4<M<5: 169.5

5<M<6: 0 6<M<7: 0

7<M<8: 0 M>8 : 0

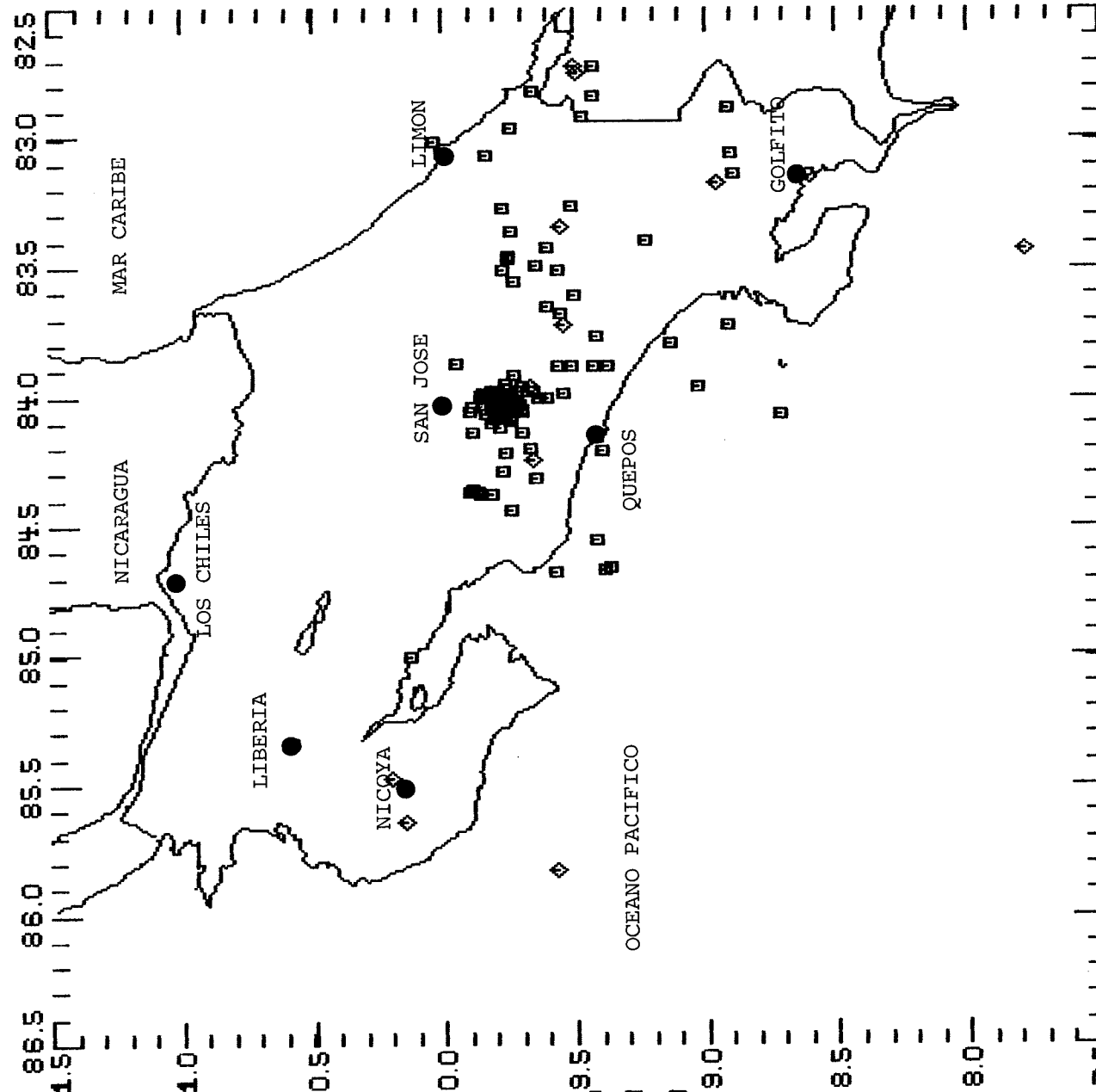
9.0

8.5

8.0

7.5

RED SISMOLÓGICA NACIONAL, ICE-UCR MAPA DE EPICENTROS DE COSTA RICA



PARTE B

LECTURA DE LOS TIEMPOS DE ARRIBO DE LOS SISMOS REGIONALES
TELESISMOS Y EVENTOS LOCALES CON MAGNITUD ≥ 4.0

AGOSTO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL. |
|------|-----|-----------|------|------|------|
| SJS | 01 | 225637.10 | IP | Z | D |
| LCR2 | 01 | 225634.13 | IP | Z | C |
| URS | 01 | 225638.87 | IP | Z | D |
| PRS | 01 | 225638.98 | IP | Z | C |
| ICR | 01 | 225639.47 | IP | Z | D |
| BUS | 01 | 225640.00 | IP | Z | D |
| QCR | 01 | 225643.80 | IP | Z | C |
| SRA | 01 | 225646.50 | IP | Z | D |
| VCR | 01 | 225701.50 | IP | Z | C |

14 Km al SW de Cartago, Costa Rica, Md = 4,1
Intensidades: III Cartago, II San José.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 02 | 041421.88 | IP | Z | D |
| LCR2 | 02 | 041419.01 | IP | Z | C |
| PRS | 02 | 041423.72 | IP | Z | C |
| ICR | 02 | 041424.33 | IP | Z | D |
| BUS | 02 | 041424.83 | IP | Z | D |
| VCR | 02 | 041446.22 | IP | Z | C |

14 Km al S de Tres Ríos, Cartago San José, Costa Rica Md = 4,4
Intensidades: IV La Lucha, III Cartago, II San José.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 02 | 144918.00 | EP | Z | D |
| ICR | 02 | 144923.00 | EP | Z | C |
| LCR2 | 02 | 144920.00 | EP | Z | |
| SRA | 02 | 144910.00 | EP | Z | D |
| QCR | 02 | 144919.00 | EP | Z | C |
| BUS | 02 | 144924.00 | EP | Z | D |

Regional

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 02 | 150151.00 | IP | Z | D |
| ICR | 02 | 150155.80 | EP | Z | D |
| BUS | 02 | 150151.00 | EP | Z | - |

Regional

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 03 | 045812.50 | IP | Z | C |
| LCR2 | 03 | 045809.00 | IP | Z | |
| ICR | 03 | 045808.80 | IP | Z | D |
| BUS | 03 | 045807.00 | IP | Z | C |
| SRA | 03 | 045817.80 | IP | Z | D |

Fuera de las costas del Ecuador, Ms = 4,9

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 03 | 085809.50 | EP | Z | C |
| SRA | 03 | 085802.50 | EP | Z | C |
| ICR | 03 | 085813.50 | EP | Z | D |

AGOSTO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL. |
|--|-----|-----------|------|------|------|
| VCR | 03 | 085812.50 | EP | Z | C |
| Regional | | | | | |
| SJS | 03 | 105853.00 | EP | Z | - |
| LCR2 | 03 | 105904.00 | EP | Z | C |
| VCR | 03 | 105856.00 | EP | Z | C |
| BUS | 03 | 105900.00 | EP | Z | - |
| SRA | 03 | 105846.50 | EP | Z | C |
| Regional | | | | | |
| SJS | 03 | 181115.00 | EP | Z | D |
| SRA | 03 | 181119.50 | EP | Z | C |
| Regional | | | | | |
| SJS | 04 | 014008.00 | EP | Z | D |
| VCR | 04 | 014004.50 | EP | Z | D |
| SRA | 04 | 014000.00 | EP | Z | - |
| Regional | | | | | |
| SJS | 04 | 033414.90 | EP | Z | D |
| VCR | 04 | 033422.50 | EP | Z | C |
| Regional | | | | | |
| SJS | 04 | 074815.50 | IP | Z | C |
| ICR | 04 | 074815.50 | IP | Z | C |
| VCR | 04 | 074827.00 | IP | Z | C |
| BUS | 04 | 074808.80 | IP | Z | C |
| SRA | 04 | 074826.00 | IP | Z | C |
| Cerca de las costas de Ecuador, Ms= 4,6 | | | | | |
| QCR | 04 | 111920.80 | IP | Z | D |
| | | 1928.90 | S | Z | |
| LCR2 | 04 | 111921.36 | IP | Z | D |
| SJS | 04 | 111922.40 | IP | Z | D |
| SRA | 04 | 111924.40 | IP | Z | C |
| | | 31.80 | S | Z | |
| BUS | 04 | 111924.82 | IP | Z | D |
| ICR | 04 | 111925.40 | IP | Z | C |
| VCR | 04 | 111940.18 | IP | Z | C |
| | | 59.00 | S | Z | |
| 12Km al S de San Ignacio de Acosta, Costa Rica, Intensidades III Atenas, Puriscal, San José II Cartago, Orotina, Heredia Md= 4.0 | | | | | |
| SJS | 05 | 043320.20 | EP | Z | C |
| JCR | 05 | 043256.50 | EP | Z | D |
| VCR | 05 | 043253.30 | EP | Z | D |
| BUS | 05 | 043322.00 | EP | Z | - |

AGOSTO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL. |
|-----|-----|--------|------|------|------|
|-----|-----|--------|------|------|------|

| | | | | | |
|-----|----|-----------|----|---|---|
| QCR | 05 | 043321.30 | EP | Z | C |
|-----|----|-----------|----|---|---|

Regional

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 05 | 044200.00 | EP | Z | - |
| ICR | 05 | 044203.50 | EP | Z | D |
| LCR2 | 05 | 044200.00 | EP | Z | C |
| BUS | 05 | 044212.00 | EP | Z | D |
| QCR | 05 | 044200.00 | EP | Z | - |
| VCR | 05 | 044134.50 | EP | Z | C |
| JCR | 05 | 044145.50 | EP | Z | D |

Regional

| | | | | | |
|------|----|-----------|----|---|--|
| SJS | 05 | 055504.30 | EP | Z | |
| LCR2 | 05 | 055506.20 | EP | Z | |
| ICR | 05 | 055507.00 | EP | Z | |

Regional

| | | | | | |
|------|----|-----------|----|---|---|
| BUS | 06 | 025037.65 | IP | Z | C |
| LCR2 | 06 | 025043.80 | IP | Z | D |
| | | 48.27 | S | Z | |
| QCR | 06 | 025044.90 | IP | Z | D |
| ICR | 06 | 025045.50 | IP | Z | C |
| SJS | 06 | 025046.17 | IP | Z | C |
| SRA | 06 | 025052.93 | IP | Z | D |
| | | 65.42 | S | Z | |
| VCR | 06 | 025111.02 | IP | Z | C |
| PRS | 06 | 025043.40 | IP | Z | C |
| JCR | 06 | 025057.00 | IP | Z | D |

13 Km al S de la Suiza, Turrialba, Costa Rica, Md= 4,0
Intensidad: II Turrialba

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 06 | 052749.80 | EP | Z | C |
| SRA | 06 | 052658.00 | EP | Z | D |
| ICR | 06 | 052700.00 | EP | Z | - |

Regional

| | | | | | |
|------|----|-----------|----|---|---|
| LCR2 | 06 | 105508.85 | IP | Z | C |
| SJS | 06 | 105510.40 | IP | Z | D |
| ICR | 06 | 105512.80 | IP | Z | D |
| BUS | 06 | 105512.50 | IP | Z | C |
| QCR | 06 | 105512.85 | IP | Z | C |
| SRA | 06 | 105516.00 | IP | Z | D |
| VCR | 06 | 105534.00 | IP | Z | C |

15Km al SW de Cartago, Costa Rica, Md= 4,4 Intensidad IV Cartago

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 07 | 052527.50 | EP | Z | - |
| SRA | 07 | 052413.00 | EP | Z | C |

AGOSTO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL. |
|---|-----|-----------|------|------|------|
| JCR | 07 | 052402.00 | EP | Z | C |
| Telesismo | | | | | |
| SJS | 07 | 101635.00 | IP | Z | C |
| SRA | 07 | 101628.00 | IP | Z | - |
| LCR2 | 07 | 101630.50 | IP | Z | C |
| JCR | 07 | 101630.50 | IP | Z | C |
| QCR | 07 | 101620.00 | IP | Z | D |
| Venezuela, Mb= 4,8 | | | | | |
| SJS | 07 | 220756.00 | EP | Z | D |
| SRA | 07 | 220707.00 | EP | Z | D |
| JCR | 07 | 220720.50 | EP | Z | C |
| Regional | | | | | |
| QCR | 08 | 022928.80 | EP | Z | D |
| LCR2 | 08 | 022933.80 | EP | Z | D |
| PRS | 08 | 022935.60 | EP | Z | C |
| SJS | 08 | 022936.50 | EP | Z | D |
| SRA | 08 | 022939.00 | EP | Z | C |
| VCR | 08 | 022946.00 | EP | Z | C |
| Regional | | | | | |
| SJS | 08 | 171456.00 | IP | Z | C |
| SRA | 08 | 171446.00 | IP | Z | D |
| LCR2 | 08 | 171500.05 | IP | Z | D |
| JCR | 08 | 171440.00 | IP | Z | D |
| VCR | 08 | 171432.50 | IP | Z | C |
| Mexico, Mb= 4,7 | | | | | |
| SJS | 09 | 093354.10 | IP | Z | D |
| LCR2 | 09 | 093351.20 | IP | Z | C |
| PRS | 09 | 093355.30 | IP | Z | C |
| BUS | 09 | 093356.90 | IP | Z | C |
| QCR | 09 | 093357.40 | IP | Z | D |
| 2km al NW de La Lucha, San José, Costa Rica Md = 4,9 Intensidades: VII-VI Frailes, IV San José | | | | | |
| SJS | 09 | 175338.60 | IP | Z | D |
| LCR2 | 09 | 175336.50 | IP | Z | C |
| PRS | 09 | 175341.00 | IP | Z | C |
| BUS | 09 | 175342.40 | IP | Z | C |
| QCR | 09 | 175343.20 | IP | Z | C |
| Patio de Agua, Cartago, Costa Rica, Md= 4,4 Intensidad: III Cartago | | | | | |
| SJS | 09 | 180103.00 | EP | Z | D |
| LCR2 | 09 | 180100.00 | IP | Z | D |

AGOSTO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL. |
|-----|-----|-----------|------|------|------|
| BUS | 09 | 180105.40 | IP | Z | C |
| PRS | 09 | 180104.80 | EP | Z | |
| QCR | 09 | 180106.00 | EP | Z | |

1Km al SW de San Cristóbal, Cartago, Costa Rica Md= 4,5
Intensidad: III Cartago

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 11 | 094112.50 | EP | Z | C |
| SRA | 11 | 094112.50 | EP | Z | - |
| VCR | 11 | 094100.00 | EP | Z | - |
| JCR | 11 | 094116.50 | EP | Z | C |
| QCR | 11 | 094123.00 | EP | Z | - |

Regional

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 12 | 110927.50 | EP | Z | C |
| SRA | 12 | 110931.00 | EP | Z | C |
| JCR | 12 | 110940.00 | EP | Z | C |

Telesismo

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 13 | 042440.50 | EP | Z | D |
| SRA | 13 | 042432.80 | EP | Z | C |
| LCR2 | 13 | 042444.80 | EP | Z | D |
| JCR | 13 | 042421.00 | EP | Z | D |
| VCR | 13 | 042412.00 | EP | Z | D |

Regional

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 13 | 065740.50 | EP | Z | - |
| SRA | 13 | 065744.50 | EP | Z | C |
| JCR | 13 | 065743.50 | EP | Z | C |
| VCR | 13 | 065725.00 | EP | Z | D |

Telesismo

| | | | | | |
|-----|----|-----------|----|---|---|
| SRA | 13 | 102905.00 | EP | Z | - |
| SRA | 13 | 102850.00 | EP | Z | D |
| JCR | 13 | 102942.00 | EP | Z | D |

Telesismo

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 14 | 163804.50 | EP | Z | D |
| LCR2 | 14 | 163802.50 | EP | Z | C |
| VCR | 14 | 163757.50 | EP | Z | - |
| JCR | 14 | 163819.00 | EP | Z | D |
| BUS | 14 | 163757.00 | EP | Z | D |

Regional

| | | | | | |
|------|----|-----------|----|---|---|
| ACR | 15 | 132030.60 | IP | Z | D |
| BUS | 15 | 132046.10 | IP | Z | C |
| LCR2 | 15 | 132049.50 | IP | Z | D |
| URS | 15 | 132050.00 | IP | Z | C |
| ICR | 15 | 132052.30 | IP | Z | D |

AGOSTO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL. |
|------------------------|-----|-----------|------|------|------|
| SJS | 15 | 132052.20 | IP | Z | C |
| SRA | 15 | 132056.10 | IP | Z | C |
| VCR | 15 | 132105.60 | IP | Z | D |
| Sur de Panamá, Mb= 4,7 | | | | | |
| SJS | 15 | 173548.50 | EP | Z | C |
| URS | 15 | 173550.50 | EP | Z | D |
| LCR2 | 15 | 173548.50 | EP | Z | D |
| JCR | 15 | 173532.50 | EP | Z | - |
| VCR | 15 | 173525.00 | EP | Z | C |
| BUS | 15 | 173552.00 | EP | Z | D |
| SRA | 15 | 173541.50 | EP | Z | D |
| Regional | | | | | |
| SJS | 15 | 232525.50 | EP | Z | D |
| SRA | 15 | 242515.80 | EP | Z | D |
| JCR | 15 | 232526.00 | EP | Z | C |
| VCR | 15 | 232530.00 | EP | Z | D |
| Regional | | | | | |
| SJS | 16 | 014315.00 | EP | Z | - |
| JCR | 16 | 014255.50 | EP | Z | D |
| VCR | 16 | 014254.50 | EP | Z | C |
| Regional | | | | | |
| SJS | 16 | 074146.00 | EP | Z | - |
| VCR | 16 | 074154.80 | EP | Z | D |
| JCR | 16 | 074154.00 | EP | Z | D |
| Telesismo | | | | | |
| SJS | 16 | 191838.50 | EP | Z | D |
| SRA | 16 | 191828.50 | EP | Z | C |
| VCR | 16 | 191831.00 | EP | Z | D |
| JCR | 16 | 191828.00 | EP | Z | D |
| ICR | 16 | 191818.00 | EP | Z | - |
| JCR | 16 | 191838.50 | EP | Z | D |
| PRS | 16 | 191836.00 | EP | Z | D |
| Regional | | | | | |
| SJS | 17 | 062148.20 | EP | Z | |
| Telesismo | | | | | |
| ACR | 17 | 120244.80 | IP | Z | D |
| | | 53.40 | S | Z | |
| QCR | 17 | 120253.40 | IP | Z | D |
| LCR2 | 17 | 120254.10 | IP | Z | C |
| SJS | 17 | 120256.60 | IP | Z | D |
| | | 73.90 | S | Z | |

AGOSTO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL. |
|---|-----|-----------|------|------|------|
| PRS | 17 | 120258.40 | IP | Z | - |
| JCR | 17 | 120307.60 | IP | Z | C |
| VCR | 17 | 120315.80 | IP | Z | D |
| 10 Km al SW de Coto Brus, Puntarenas, Costa Rica Md = 4,2 | | | | | |
| SJS | 17 | 124354.00 | IP | Z | C |
| LCR2 | 17 | 124354.50 | IP | Z | - |
| BUS | 17 | 124352.00 | IP | Z | D |
| ACR | 17 | 124350.00 | IP | Z | - |
| JCR | 17 | 124403.00 | IP | Z | D |
| SRA | 17 | 124457.50 | IP | Z | - |
| Cerca de las costas de Venezuela, Md= 5,2 | | | | | |
| JCR | 17 | 133753.10 | IP | Z | D |
| | | 60.40 | S | Z | |
| PRS | 17 | 133804.70 | IP | Z | C |
| | | 21.20 | S | Z | |
| SJS | 17 | 133808.50 | IP | Z | C |
| QCR | 17 | 133809.50 | IP | Z | D |
| LCR2 | 17 | 133810.00 | IP | Z | C |
| BUS | 17 | 133814.20 | IP | Z | D |
| ACR | 17 | 133827.00 | IP | Z | D |
| 4 Km al N-NE de Nicoya, Guanacaste, Costa Rica Md= 4,5 | | | | | |
| SJS | 17 | 222600.00 | EP | Z | - |
| SRA | 17 | 222557.00 | EP | Z | - |
| LCR2 | 17 | 222607.00 | EP | Z | C |
| JCR | 17 | 222600.00 | EP | Z | C |
| VCR | 17 | 222548.00 | EP | Z | C |
| BUS | 17 | 222612.00 | EP | Z | D |
| Telesismo | | | | | |
| SJS | 18 | 021520.00 | EP | Z | C |
| SRA | 18 | 021509.50 | EP | Z | D |
| URS | 18 | 021522.00 | EP | Z | D |
| VCR | 18 | 021520.00 | EP | Z | D |
| Regional | | | | | |
| SJS | 18 | 081129.00 | EP | Z | C |
| SRA | 18 | 081124.50 | EP | Z | D |
| BUS | 18 | 081133.50 | EP | Z | C |
| VCR | 18 | 081104.00 | EP | Z | C |
| URS | 18 | 081132.50 | EP | Z | D |
| LCR2 | 18 | 081130.50 | EP | Z | D |
| Regional | | | | | |
| SJS | 18 | 105451.00 | EP | Z | D |
| SRA | 18 | 105451.00 | EP | Z | D |
| URS | 18 | 105453.00 | EP | Z | D |

AGOSTO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL. |
|--------------------|-----|-----------|------|------|------|
| VCR | 18 | 105434.00 | IP | Z | D |
| Regional | | | | | |
| SJS | 19 | 052556.00 | IP | Z | D |
| SRA | 19 | 052556.50 | IP | Z | D |
| BUS | 19 | 052603.50 | IP | Z | C |
| ACR | 19 | 052616.50 | IP | Z | D |
| VCR | 19 | 052536.50 | IP | Z | D |
| JCR | 19 | 052600.00 | IP | Z | D |
| Guatemala, Mb= 4,3 | | | | | |
| SJS | 19 | 063944.50 | EP | Z | C |
| SRA | 19 | 063933.00 | EP | Z | C |
| VCR | 19 | 063942.00 | EP | Z | D |
| Regional | | | | | |
| SJS | 19 | 074725.00 | EP | Z | C |
| SRA | 19 | 074742.50 | EP | Z | C |
| URS | 19 | 074753.00 | EP | Z | D |
| Regional | | | | | |
| SJS | 19 | 085458.50 | EP | Z | D |
| SRA | 19 | 085457.00 | EP | Z | C |
| BUS | 19 | 085502.50 | EP | Z | D |
| VCR | 19 | 085434.00 | EP | Z | D |
| URS | 19 | 085501.00 | EP | Z | C |
| LCR2 | 19 | 085458.50 | EP | Z | - |
| Regional | | | | | |
| SJS | 20 | 020116.50 | EP | Z | C |
| SRA | 20 | 020100.00 | EP | Z | - |
| VCR | 20 | 020123.00 | EP | Z | D |
| Regional | | | | | |
| SJS | 20 | 043139.80 | EP | Z | C |
| SRA | 20 | 043133.00 | EP | Z | D |
| LCR2 | 20 | 043139.00 | EP | Z | - |
| URS | 20 | 043137.50 | EP | Z | C |
| JCR | 20 | 043137.00 | EP | Z | C |
| VCR | 20 | 043116.00 | EP | Z | D |
| BUS | 20 | 043143.00 | EP | Z | - |
| Regional | | | | | |
| SJS | 20 | 112722.50 | EP | Z | C |
| SRA | 20 | 112715.00 | EP | Z | C |
| URS | 20 | 112724.50 | EP | Z | C |
| BUS | 20 | 112746.00 | EP | Z | D |

AGOSTO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL. |
|--|-----|-----------|------|------|------|
| VCR | 20 | 112733.00 | EP | Z | C |
| Regional | | | | | |
| SJS | 20 | 123306.50 | EP | Z | D |
| SRA | 20 | 123300.00 | EP | Z | D |
| Regional | | | | | |
| BUS | 23 | 053925.00 | IP | Z | C |
| ICR | 23 | 053929.00 | IP | Z | C |
| SJS | 23 | 053931.40 | IP | Z | D |
| ACR | 23 | 053933.10 | IP | Z | D |
| VCR | 23 | 053955.30 | IP | Z | D |
| 46Km al SW de San Isidro de Pérez Zeledón, Costa Rica, Md= 4,1 | | | | | |
| SJS | 23 | 172726.00 | EP | Z | D |
| SRA | 23 | 172731.50 | EP | Z | C |
| JCR | 23 | 172742.50 | EP | Z | C |
| VCR | 23 | 172743.00 | EP | Z | D |
| Regional | | | | | |
| SJS | 24 | 075606.50 | EP | Z | C |
| SRA | 24 | 075559.00 | EP | Z | D |
| VCR | 24 | 075541.00 | EP | Z | D |
| ACR | 24 | 075634.50 | EP | Z | - |
| ICR | 24 | 075609.50 | EP | Z | - |
| LCR2 | 24 | 075607.00 | EP | Z | D |
| Regional | | | | | |
| SJS | 24 | 113246.00 | EP | Z | D |
| SRA | 24 | 113244.50 | EP | Z | D |
| LCR2 | 24 | 113246.80 | EP | Z | D |
| ICR | 24 | 113249.00 | EP | Z | - |
| VCR | 24 | 113245.00 | EP | Z | C |
| Regional | | | | | |
| SJS | 24 | 151314.00 | EP | Z | C |
| SRA | 24 | 151311.50 | EP | Z | D |
| Regional | | | | | |
| SJS | 25 | 010730.50 | EP | Z | C |
| SRA | 25 | 010734.00 | EP | Z | D |
| VCR | 25 | 010707.50 | EP | Z | D |
| LCR2 | 25 | 010738.00 | EP | Z | - |
| Regional | | | | | |

AGOSTO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL. |
|---|-----|-----------|------|------|------|
| SJS | 25 | 220828.50 | EP | Z | C |
| SRA | 25 | 220820.00 | EP | Z | D |
| Regional | | | | | |
| VCR | 26 | 032011.00 | IP | Z | D |
| SRA | 26 | 032028.70 | IP | Z | D |
| | | 44.60 | S | Z | |
| PRS | 26 | 032031.40 | IP | Z | D |
| SJS | 26 | 032034.90 | IP | Z | C |
| LCR2 | 26 | 032036.30 | IP | Z | D |
| | | 57.90 | S | | |
| ICR | 26 | 032038.30 | IP | Z | C |
| ACR | 26 | 032053.00 | IP | Z | D |
| 12Km al W de Santa Cruz, Guanacaste, Costa Rica Md= 4,9 | | | | | |
| SJS | 26 | 100419.50 | IP | Z | D |
| SRA | 26 | 100420.00 | IP | Z | D |
| LCR2 | 26 | 100422.00 | IP | Z | C |
| BUS | 26 | 100423.00 | IP | Z | D |
| Mar Caribe, Ms= 5,2 | | | | | |
| SJS | 26 | 101848.90 | IP | Z | C |
| ACR | 26 | 101841.60 | IP | Z | D |
| BUS | 26 | 101843.00 | IP | Z | C |
| LCR2 | 26 | 101847.50 | IP | Z | C |
| QCR | 26 | 101849.80 | IP | Z | D |
| PRS | 26 | 101852.50 | IP | Z | D |
| SRA | 26 | 101854.90 | IP | Z | D |
| 15 Km al Oeste de Sixaola, en Territorio de Panamá Md = 4,0 | | | | | |
| SJS | 26 | 102044.20 | IP | Z | D |
| ACR | 26 | 102035.90 | IP | Z | D |
| BUS | 26 | 102037.20 | IP | Z | C |
| LCR2 | 26 | 102041.80 | IP | Z | C |
| QCR | 26 | 102044.00 | IP | Z | C |
| PRS | 26 | 102047.00 | IP | Z | D |
| 10 Km al Oeste de Sixaola, en Territorio de Panamá Md = 4,1 | | | | | |
| VCR | 26 | 130019.00 | IP | Z | D |
| SRA | 26 | 130034.20 | IP | Z | D |
| PRS | 26 | 130035.30 | IP | Z | D |
| QCR | 26 | 130037.00 | IP | Z | D |
| | | 58.80 | S | Z | |
| SJS | 26 | 130039.00 | IP | Z | C |
| LCR2 | 26 | 130039.50 | IP | Z | C |
| | | 63.00 | S | Z | C |
| BUS | 26 | 130042.90 | IP | Z | - |

AGOSTO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL. |
|---|-----|-----------|------|------|------|
| ACR | 26 | 130053.20 | IP | Z | D |
| 50Km al SW de Sámara, Guanacaste, Costa Rica Md=4,2 | | | | | |
| SJS | 27 | 024322.50 | EP | Z | D |
| SRA | 27 | 024321.00 | EP | Z | D |
| Regional | | | | | |
| SJS | 27 | 192205.50 | EP | Z | C |
| ACR | 27 | 192227.00 | EP | Z | - |
| Regional | | | | | |
| SJS | 28 | 000357.00 | EP | Z | C |
| SRA | 28 | 000333.00 | EP | Z | D |
| JCR | 28 | 000332.00 | EP | Z | D |
| VCR | 28 | 000346.00 | EP | Z | D |
| Regional | | | | | |
| SJS | 28 | 152400.00 | EP | Z | - |
| SRA | 28 | 152423.00 | EP | Z | - |
| JCR | 28 | 152417.00 | EP | Z | D |
| ACR | 28 | 152334.50 | EP | Z | D |
| QCR | 28 | 152356.00 | EP | Z | - |
| Regional | | | | | |
| SJS | 30 | 001954.00 | EP | Z | D |
| SRA | 30 | 001953.00 | EP | Z | - |
| BUS | 30 | 001946.50 | EP | Z | C |
| JCR | 30 | 001955.00 | EP | Z | D |
| Regional | | | | | |
| SJS | 30 | 092900.00 | EP | Z | - |
| JCR | 30 | 092906.00 | EP | Z | - |
| SRA | 30 | 092904.00 | EP | Z | D |
| BUS | 30 | 092854.00 | EP | Z | C |
| QCR | 30 | 092853.00 | EP | Z | C |
| VCR | 30 | 092914.00 | EP | Z | D |
| ACR | 30 | 092837.00 | EP | Z | D |
| ICR | 30 | 092900.00 | EP | Z | - |
| LCR2 | 30 | 092952.00 | EP | Z | D |
| Regional | | | | | |
| SJS | 31 | 214620.70 | IP | Z | C |
| LCR2 | 31 | 214616.80 | IP | Z | D |
| BUS | 31 | 214619.80 | IP | Z | C |
| QCR | 31 | 214621.00 | IP | Z | C |
| ICR | 31 | 214622.00 | IP | Z | C |

AGOSTO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL. |
|-----|-----|-----------|------|------|------|
| ACR | 31 | 214637.80 | IP | Z | D |

2Km al NE de Santa María de Dota, San José, Costa Rica Md= 4,1

PARAMETROS DE LOS EVENTOS LOCALIZADOS
PARTE A
SETIEMBRE 1991

| No | DIA | T. ORIG. | LATITUD | LONGITUD | DEPTH | MAG | No | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|----------|-------|-----|----|-----|-----|------|-----|-------|
| 001 | 01 | 200208.97 | 9°44.63 | 84°01.93 | 5.62 | 3.5 | 10 | 3 | 73 | 0.52 | 2.3 | 1.4 * |
| 002 | 01 | 200903.08 | 9°44.63 | 84°00.30 | 10.70 | 3.1 | 6 | 0 | 216 | 0.29 | 1.7 | 2.2 * |
| 003 | 01 | 032739.33 | 9°53.33 | 83°36.10 | 13.47 | 2.3 | 6 | 41 | 289 | 0.47 | 8.5 | 7.7 |
| 004 | 02 | 041423.07 | 10°08.09 | 84°15.66 | 86.22 | 3.3 | 9 | 31 | 201 | 0.21 | 3.9 | 2.7 |
| 005 | 02 | 044604.24 | 7°59.60 | 83°06.65 | 5.91 | 4.6 | 13 | 73 | 315 | 0.40 | 6.5 | 5.8 |
| 006 | 02 | 050606.57 | 7°51.13 | 82°51.07 | 11.52 | 3.8 | 10 | 95 | 331 | 0.51 | 8.4 | *** |
| 007 | 02 | 080410.28 | 9°31.96 | 83°34.15 | 12.05 | 2.9 | 8 | 21 | 205 | 0.32 | 2.6 | 4.6 |
| 008 | 02 | 081600.06 | 9°35.75 | 83°32.71 | 11.05 | 3.1 | 9 | 24 | 214 | 0.26 | 2.2 | 2.9 |
| 009 | 02 | 084108.54 | 8°26.23 | 83°59.77 | 40.14 | 3.8 | 7 | 11 | 304 | 0.35 | *** | *** |
| 010 | 02 | 090056.26 | 9°45.58 | 83°49.78 | 11.81 | 2.4 | 9 | 19 | 200 | 0.40 | 2.6 | 5.5 |
| 011 | 02 | 112020.74 | 9°36.31 | 84°38.33 | 9.68 | 3.0 | 11 | 56 | 187 | 0.38 | 0.8 | 1.7 |
| 012 | 03 | 041803.84 | 9°46.58 | 84°00.28 | 10.42 | 3.6 | 14 | 4 | 92 | 0.39 | 1.4 | 1.6 |
| 013 | 03 | 100333.12 | 9°47.50 | 83°57.68 | 3.9 | 3.2 | 7 | 7 | 105 | 0.37 | 1.6 | 2.0 |
| 014 | 03 | 101842.54 | 9°44.63 | 83°56.23 | 5.22 | 2.5 | 7 | 7 | 113 | 0.45 | 3.3 | 3.3 |
| 015 | 03 | 230303.59 | 9°48.14 | 83°57.76 | 5.03 | 3.0 | 8 | 8 | 73 | 0.44 | 2.5 | 2.6 |
| 016 | 04 | 000805.86 | 9°53.05 | 84°21.53 | 13.33 | 3.3 | 11 | 6 | 172 | 0.31 | 1.8 | 2.1 * |
| 017 | 04 | 024408.40 | 9°56.03 | 83°53.89 | 12.74 | 2.1 | 5 | 9 | 204 | 0.31 | 9.7 | *** |
| 018 | 04 | 051134.96 | 9°33.42 | 83°27.78 | 22.10 | 2.4 | 9 | 32 | 219 | 0.44 | 6.4 | 6.5 |
| 019 | 04 | 142359.87 | 9°47.21 | 84°01.32 | 6.24 | 3.3 | 9 | 5 | 81 | 0.27 | 1.5 | 1.2 * |
| 020 | 05 | 030343.75 | 9°46.75 | 83°26.82 | 10.49 | 3.0 | 15 | 42 | 226 | 0.42 | 3.3 | 3.1 |
| 021 | 05 | 104543.98 | 9°45.35 | 84°00.28 | 7.25 | 2.1 | 8 | 2 | 92 | 0.32 | 1.9 | 2.6 |
| 022 | 05 | 111620.85 | 9°21.59 | 84°38.10 | 5.00 | 2.4 | 12 | 52 | 226 | 0.44 | 4.9 | 8.9 |
| 023 | 05 | 192620.85 | 9°47.37 | 83°03.21 | 9.04 | 2.3 | 8 | 8 | 151 | 0.29 | 1.6 | 4.3 |
| 024 | 06 | 000628.95 | 9°47.11 | 84°00.28 | 10.32 | 2.4 | 7 | 5 | 151 | 0.34 | 2.3 | 3.5 |
| 025 | 06 | 032658.60 | 9°32.36 | 83°52.10 | 15.89 | 3.0 | 9 | 12 | 224 | 0.22 | 1.9 | 1.1 |
| 026 | 06 | 063136.32 | 9°47.09 | 83°24.18 | 5.45 | 3.7 | 11 | 40 | 123 | 0.20 | 1.1 | 2.2 * |
| 027 | 06 | 132731.31 | 9°21.62 | 84°34.58 | 7.65 | 3.7 | 8 | 62 | 230 | 0.23 | 2.9 | 3.2 |
| 028 | 06 | 205333.69 | 9°42.72 | 84°04.64 | 15.00 | 3.2 | 10 | 9 | 146 | 0.37 | 1.8 | 2.3 |
| 029 | 07 | 134315.02 | 9°39.06 | 83°39.96 | 11.07 | 3.0 | 11 | 15 | 180 | 0.27 | 2.0 | 1.8 |
| 030 | 07 | 203749.11 | 9°50.39 | 83°25.14 | 14.69 | 3.0 | 10 | 48 | 239 | 0.30 | 2.9 | 2.4 |
| 031 | 08 | 063104.41 | 9°43.43 | 84°03.01 | 7.18 | 2.9 | 9 | 6 | 81 | 0.34 | 1.5 | 1.5 |
| 032 | 08 | 070146.92 | 9°45.25 | 84°03.90 | 7.11 | 3.3 | 11 | 7 | 98 | 0.36 | 1.4 | 1.5 |
| 033 | 08 | 075317.00 | 9°40.58 | 82°56.54 | 28.96 | 3.8 | 10 | 37 | 218 | 0.24 | 1.1 | 1.5 |
| 034 | 08 | 113055.93 | 9°46.17 | 84°00.28 | 16.37 | 2.4 | 8 | 3 | 92 | 0.46 | 3.3 | 4.6 |
| 035 | 09 | 020611.59 | 9°49.53 | 83°20.04 | 13.17 | 3.7 | 9 | 32 | 130 | 0.15 | 1.1 | 1.8 |
| 036 | 09 | 105750.94 | 9°46.31 | 84°01.46 | 6.70 | 3.3 | 7 | 4 | 142 | 0.25 | 1.2 | 1.3 * |
| 037 | 09 | 162652.28 | 9°30.75 | 83°50.90 | 21.30 | 3.4 | 8 | 11 | 165 | 0.23 | 2.9 | 3.2 |
| 038 | 09 | 231149.36 | 9°52.46 | 84°00.48 | 5.00 | 2.4 | 5 | 9 | 177 | 0.36 | 6.6 | 5.1 |
| 039 | 10 | 021029.94 | 10°12.48 | 84°59.40 | 37.15 | 3.3 | 8 | 71 | 203 | 0.27 | 6.5 | 1.5 |
| 040 | 11 | 031950.58 | 9°42.26 | 84°01.58 | 7.74 | 2.1 | 6 | 5 | 179 | 0.17 | 0.8 | 1.1 |
| 041 | 11 | 060644.81 | 9°26.32 | 83°06.23 | 5.00 | 3.3 | 9 | 73 | 331 | 0.52 | 6.6 | *** |
| 042 | 11 | 115409.95 | 9°48.32 | 83°59.25 | 9.66 | 3.0 | 9 | 7 | 108 | 0.36 | 1.8 | 1.4 |
| 043 | 11 | 140519.88 | 9°38.65 | 82°28.68 | 13.07 | 4.1 | 13 | 77 | 276 | 0.44 | 4.1 | 7.1 * |
| 044 | 11 | 143833.33 | 9°38.82 | 82°27.92 | 11.58 | 4.1 | 11 | 78 | 277 | 0.37 | 4.7 | 7.3 * |
| 045 | 11 | 163532.16 | 6°50.44 | 83°01.03 | 12.00 | 3.6 | 9 | 311 | 340 | 0.36 | *** | *** |

SETIEMBRE 1991

| No | DIA | T. ORIG. | LATITUD | LONGITUD | DEPTH | MAG | No | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|----------|-------|-----|----|-----|-----|------|-----|------|
| 046 | 11 | 143953.99 | 9°34.33 | 82°23.49 | 24.46 | 4.5 | 11 | 89 | 280 | 0.56 | 7.8 | 4.1* |
| 047 | 12 | 051105.48 | 9°53.99 | 84°58.85 | 18.63 | 4.7 | 13 | 15 | 158 | 0.42 | 3.8 | 3.2* |
| 048 | 12 | 113743.71 | 9°43.10 | 82°47.49 | 5.53 | 3.7 | 14 | 108 | 275 | 0.34 | 3.5 | 3.7 |
| 049 | 12 | 120551.95 | 8°31.04 | 84°02.17 | 25.00 | 3.9 | 8 | 97 | 269 | 0.38 | 5.8 | 8.6 |
| 050 | 12 | 140141.25 | 9°39.25 | 84°44.46 | 37.57 | 3.0 | 10 | 46 | 186 | 0.59 | 5.5 | 2.4 |
| 051 | 12 | 153331.79 | 9°44.88 | 83°58.71 | 8.54 | 3.9 | 7 | 3 | 82 | 0.14 | 1.4 | 1.2* |
| 052 | 12 | 173713.87 | 9°55.61 | 84°49.74 | 8.58 | 3.6 | 10 | 45 | 157 | 0.51 | 4.0 | 6.8 |
| 053 | 13 | 005426.60 | 10°02.38 | 85°37.98 | 29.60 | 4.2 | 11 | 0 | 270 | 0.39 | 8.1 | 3.0* |
| 054 | 13 | 010046.80 | 9°15.31 | 85°56.45 | 20.10 | 3.4 | 13 | 31 | 266 | 0.34 | 2.9 | 4.2 |
| 055 | 13 | 013415.20 | 10°03.48 | 85°32.70 | 23.30 | 4.8 | 11 | 0 | 320 | 0.35 | 8.2 | 2.7* |
| 056 | 13 | 031232.58 | 9°46.34 | 83°58.72 | 6.76 | 2.7 | 11 | 4 | 73 | 0.29 | 1.3 | 1.1 |
| 057 | 13 | 081106.27 | 10°03.44 | 84°09.33 | 15.33 | 3.3 | 11 | 17 | 206 | 0.38 | 3.9 | 2.0 |
| 058 | 13 | 120046.76 | 9°45.68 | 84°01.44 | 7.29 | 2.1 | 7 | 3 | 148 | 0.38 | 3.1 | 2.9 |
| 059 | 13 | 140752.30 | 9°49.54 | 84°18.84 | 6.30 | 2.6 | 7 | 0 | 297 | 0.30 | 2.5 | 0.9* |
| 060 | 14 | 092857.69 | 9°21.07 | 82°45.05 | 21.78 | 3.3 | 12 | 79 | 238 | 0.38 | 3.1 | 3.7 |
| 061 | 14 | 132541.11 | 9°46.99 | 84°03.05 | 5.00 | 3.5 | 8 | 7 | 88 | 0.44 | 1.9 | 2.0* |
| 062 | 14 | 214924.81 | 9°46.03 | 84°10.66 | 1.66 | 3.6 | 6 | 4 | 149 | 0.23 | 0.5 | 0.4* |
| 063 | 15 | 055719.27 | 9°31.49 | 84°38.95 | 6.94 | 2.9 | 10 | 52 | 214 | 0.31 | 3.3 | 3.1 |
| 064 | 15 | 095213.99 | 9°34.67 | 84°37.94 | 14.61 | 2.9 | 12 | 47 | 208 | 0.29 | 2.6 | 2.7 |
| 065 | 16 | 124928.54 | 9°48.23 | 84°17.13 | 4.74 | 3.3 | 10 | 6 | 168 | 0.35 | 1.6 | 1.5 |
| 066 | 17 | 044854.69 | 9°47.51 | 84°08.29 | 11.84 | 3.7 | 12 | 71 | 179 | 0.47 | 2.8 | 4.2 |
| 067 | 17 | 124843.43 | 9°27.67 | 84°33.05 | 35.31 | 3.6 | 9 | 51 | 271 | 0.25 | 4.2 | 4.4 |
| 068 | 17 | 143641.21 | 9°50.43 | 84°18.84 | 4.43 | 2.6 | 9 | 2 | 207 | 0.39 | 2.7 | 1.4* |
| 069 | 17 | 204336.07 | 9°43.34 | 84°04.61 | 6.45 | 3.2 | 9 | 8 | 225 | 0.25 | 1.8 | 1.3* |
| 070 | 18 | 122200.13 | 9°44.63 | 84°01.29 | 5.76 | 2.4 | 13 | 2 | 87 | 0.47 | 1.7 | 1.5 |
| 071 | 18 | 173801.98 | 9°25.75 | 83°50.35 | 15.00 | 2.1 | 10 | 17 | 216 | 0.47 | 3.2 | 2.4 |
| 072 | 18 | 184559.74 | 9°47.88 | 83°59.69 | 10.15 | 2.1 | 10 | 6 | 76 | 0.42 | 2.1 | 2.7 |
| 073 | 18 | 191559.90 | 9°44.60 | 84°00.29 | 7.15 | 3.0 | 8 | 0 | 169 | 0.13 | 1.5 | 0.7* |
| 074 | 19 | 085720.19 | 9°18.19 | 83°07.24 | 30.80 | 3.5 | 12 | 72 | 182 | 0.39 | 2.1 | 2.9 |
| 075 | 19 | 111352.82 | 9°36.87 | 83°32.87 | 36.28 | 3.4 | 11 | 24 | 107 | 0.44 | 3.4 | 3.8 |
| 076 | 19 | 111513.49 | 9°36.79 | 83°29.85 | 11.13 | 4.1 | 12 | 29 | 113 | 0.31 | 1.8 | 4.8* |
| 077 | 19 | 112010.23 | 9°01.64 | 83°53.54 | 39.27 | 3.3 | 11 | 53 | 208 | 0.35 | 4.3 | 1.9 |
| 078 | 19 | 142747.21 | 9°39.59 | 83°57.60 | 4.23 | 2.9 | 9 | 10 | 157 | 0.16 | 1.0 | 0.8* |
| 079 | 20 | 171314.14 | 9°45.10 | 84°09.55 | 10.07 | 2.4 | 10 | 8 | 98 | 0.33 | 1.5 | 4.5 |
| 080 | 20 | 175019.39 | 9°14.94 | 83°32.83 | 45.38 | 3.5 | 7 | 41 | 169 | 0.45 | 7.3 | *** |
| 081 | 21 | 153833.71 | 9°51.35 | 84°18.84 | 5.89 | 2.9 | 6 | 0 | 297 | 0.25 | 2.4 | 1.4* |
| 082 | 23 | 151622.55 | 9°23.33 | 84°36.06 | 40.21 | 4.5 | 11 | 76 | 189 | 0.48 | 4.6 | 2.8* |
| 083 | 23 | 194407.41 | 9°47.58 | 84°05.51 | 17.09 | 3.9 | 6 | 11 | 183 | 0.54 | 5.4 | 6.7 |
| 084 | 23 | 232112.27 | 9°44.63 | 84°00.28 | 5.61 | 2.5 | 8 | 0 | 139 | 0.38 | 1.9 | 1.3 |
| 085 | 24 | 042721.89 | 9°42.45 | 84°02.10 | 12.00 | 2.1 | 8 | 5 | 150 | 0.21 | 1.2 | 2.5 |
| 086 | 24 | 045720.12 | 9°18.82 | 82°34.82 | 28.16 | 3.9 | 9 | 93 | 259 | 0.48 | 9.6 | 3.9 |
| 087 | 24 | 080821.71 | 9°47.12 | 83°57.82 | 5.00 | 2.6 | 8 | 6 | 108 | 0.54 | 2.0 | 2.5 |
| 088 | 24 | 085113.09 | 9°39.26 | 84°00.28 | 60.89 | 2.8 | 10 | 10 | 135 | 0.32 | 4.4 | 4.5 |
| 089 | 24 | 160000.62 | 8°30.68 | 83°20.91 | 20.00 | 4.3 | 11 | 25 | 254 | 0.57 | 9.8 | 8.5 |
| 090 | 25 | 132642.83 | 9°15.98 | 84°12.48 | 34.65 | 3.8 | 12 | 18 | 218 | 0.39 | 2.8 | 1.5* |

SETIEMBRE 1991

| No | DIA | T. ORIG. | LATITUD | LONGITUD | DEPTH | MAG | No | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|---------|----------|-----------|-----|----|-----|-----|------|-----|-----|
| 091 | 26 | 045042.43 | 9°46.51 | 84°07.62 | 58.88/2.8 | | 7 | 14 | 101 | 0.24 | 4.1 | 3.7 |
| 092 | 26 | 055641.23 | 9°43.35 | 84°02.70 | 9.16 2.6 | | 6 | 5 | 155 | 0.20 | 2.2 | 2.6 |
| 093 | 26 | 072911.50 | 9°03.25 | 83°17.60 | 32.20/2.6 | | 6 | 101 | 323 | 0.11 | 3.6 | *** |
| 094 | 28 | 091633.44 | 8°57.06 | 83°02.60 | 72.00/3.4 | | 7 | 127 | 330 | 0.73 | *** | *** |
| 095 | 29 | 044338.81 | 9°42.76 | 84°02.82 | 7.00 2.3 | | 7 | 6 | 156 | 0.29 | 2.8 | 1.6 |
| 096 | 30 | 053046.90 | 9°56.01 | 84°33.75 | 63.36/3.5 | | 10 | 29 | 304 | 0.49 | 9.5 | 5.8 |
| 097 | 30 | 184523.50 | 9°39.89 | 83°40.98 | 47.63/3.0 | | 6 | 22 | 182 | 0.13 | 2.4 | 2.9 |

PGM ANASIS Ver 2.0

Diseño:

Guillermo A Avila R

FEC m:01-09-1991

FEC M:31-09-1991

GMT=00h-24h

LAT= 7.50°-11.50°

LON=82.50°-86.50°

PRF= 0.0- 999.9 Km

MAG= 0.0- 9.9

SIMBOLOGIA:

M=3 □ M=4 ◇ M=5 +

M=6 △ M=7 ▽ M=8 ○

STA *

BASE.:RSN1991

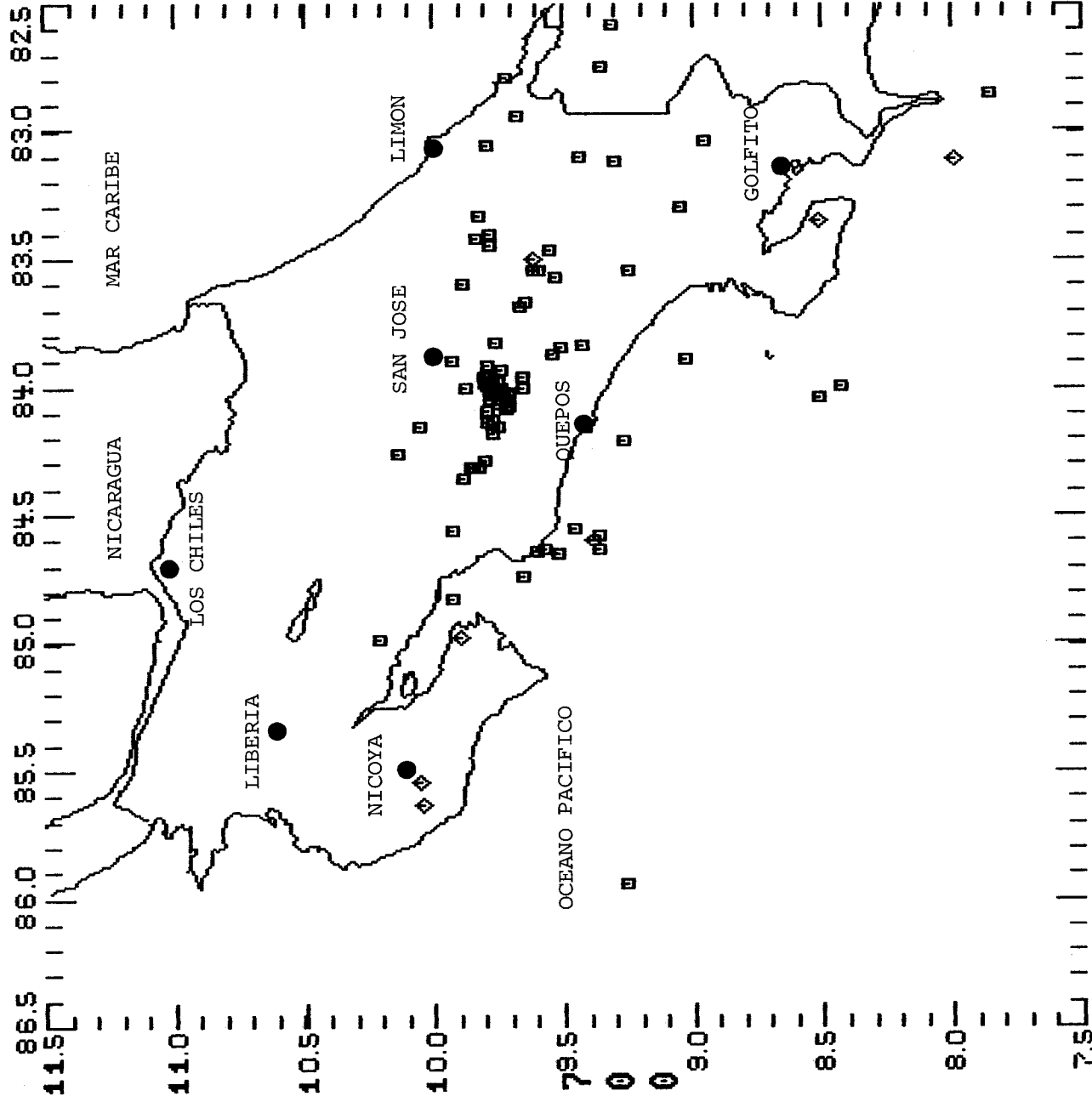
N SIS: 94

M<3.9: 87 4<M<5: 79.5

5<M<6: 0 6<M<7: 0

7<M<8: 0 M>8 : 0

RED SISMOLOGICA NACIONAL, ICE-UCR MAPA DE EPICENTROS DE COSTA RICA



PARTE B

LECTURA DE LOS TIEMPOS DE ARRIBO DE LOS SISMOS REGIONALES

TELESISMOS Y EVENTOS LOCALES CON $M \geq 4$

SETIEMBRE 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|-----|-----|-----------|------|------|-----|
| SJS | 02 | 025158.00 | EP | Z | |
| SRA | 02 | 025148.50 | EP | Z | |
| VCR | 02 | 025201.00 | EP | Z | |
| JCR | 02 | 025154.00 | EP | Z | |

Regional

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 10 | 000718.90 | EP | Z | + |
| LCR2 | 10 | 000720.20 | EP | Z | - |
| VCR | 10 | 000655.00 | IP | Z | D |
| FOR | 10 | 000708.80 | IP | Z | - |
| JCR | 10 | 000703.80 | IP | Z | C |

100 Km al W de Bahía Potrero, Costa Rica Md=4.2

| | | | | | |
|------|----|-----------|----|---|--|
| SJS | 11 | 044125.00 | EP | Z | |
| LCR2 | 11 | 044127.00 | EP | Z | |
| URS | 11 | 044129.00 | EP | Z | |
| SRA | 11 | 044118.50 | EP | Z | |

Localizado frente las costas de El Salvador Mb=4.7

| | | | | | |
|------|----|-----------|----|---|--|
| SJS | 11 | 051826.20 | EP | Z | |
| LCR2 | 11 | 051824.20 | EP | Z | |
| URS | 11 | 051822.85 | EP | Z | |
| QCR | 11 | 051822.70 | EP | Z | |
| JCR | 11 | 051820.90 | EP | Z | |

Regional

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 11 | 140548.90 | IP | Z | C |
| LCR2 | 11 | 140547.20 | IP | Z | C |
| | | 140566.50 | S | | |
| URS | 11 | 140543.60 | IP | Z | C |
| | | 140562.30 | S | | |
| BUS | 11 | 140543.20 | IP | Z | C |
| ACR | 11 | 140541.90 | IP | Z | C |
| | | 140558.00 | S | | |
| LIO | 11 | 140533.20 | EP | Z | |
| QCR | 11 | 140550.10 | EP | Z | - |
| PRS | 11 | 140552.50 | EP | Z | D |
| JCR | 11 | 140604.10 | IP | Z | C |
| VCR | 11 | 140611.30 | EP | Z | |

15 Km al NW de Sixaola, Costa Rica Md=4.2, Intensidad III Sixaola

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 11 | 143905.60 | IP | Z | C |
| | | 143926.50 | S | | |
| LCR2 | 11 | 143904.00 | IP | Z | C |

SETIEMBRE 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|-----|-----|-----------|------|------|-----|
| | | 143924.00 | S | | |
| URS | 11 | 143900.00 | IP | Z | C |
| BUS | 11 | 143900.00 | IP | Z | |
| ACR | 11 | 143858.50 | IP | Z | C |
| LIO | 11 | 143850.40 | EP | Z | |
| QCR | 11 | 143907.00 | IP | Z | D |
| | | 143929.50 | S | | |
| JCR | 11 | 143921.10 | IP | Z | C |

17 Km al NW de Sixaola, Costa Rica Md=4.1, Intensidad III en Sixaola

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 11 | 144023.00 | IP | Z | + |
| LCR2 | 11 | 144022.00 | IP | Z | C |
| URS | 11 | 144020.30 | IP | Z | |
| BUS | 11 | 144018.00 | IP | Z | C |
| ACR | 11 | 144016.00 | IP | Z | C |
| | | 144032.10 | S | | |
| LIO | 11 | 144010.00 | IP | Z | C |
| QCR | 11 | 144024.80 | IP | Z | D |
| | | 144047.20 | S | | |
| JCR | 11 | 144037.00 | IP | Z | |
| VCR | 11 | 144046.50 | IP | Z | C |

62 km al SE de Punta Cahuita, Costa Rica Md=4.5, Intensidad III - IV Sixaola.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 12 | 051122.80 | IP | Z | D |
| LCR2 | 12 | 051123.50 | IP | Z | D |
| PRS | 12 | 051117.90 | IP | Z | D |
| BUS | 12 | 051129.00 | IP | Z | D |
| URS | 12 | 051126.85 | IP | Z | D |
| | | 051144.40 | S | | |
| LIO | 12 | 051139.00 | IP | Z | D |
| ACR | 12 | 051142.00 | IP | Z | D |
| QCR | 12 | 051123.00 | IP | Z | D |
| | | 051135.90 | S | | |
| VCR | 12 | 051119.00 | IP | Z | D |
| JCR | 12 | 051110.00 | IP | Z | D |
| | | 051113.00 | S | | |

San Rafael de Paquera Puntarenas, Costa Rica Md=4.7, Intensidad IV Paquera.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 13 | 005454.80 | IP | Z | C |
| VCR | 13 | 005432.00 | IP | Z | C |
| | | 005436.20 | S | | |
| BUS | 13 | 005459.60 | IP | Z | D |
| JCR | 13 | 005438.00 | IP | Z | C |
| ICR | 13 | 005458.00 | EP | Z | |
| | | 005481.00 | S | | |
| LCR2 | 13 | 005455.00 | IP | Z | D |
| | | 005474.70 | S | | |
| PRS | 13 | 005450.30 | EP | Z | |
| URS | 13 | 005459.20 | IP | Z | D |
| | 13 | 005480.30 | S | | |

SETIEMBRE 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|-----|-----|--------|------|------|-----|
|-----|-----|--------|------|------|-----|

24 Km al SW de Nicoya, Costa Rica Md=4.2, Intensidad III Nicoya.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 13 | 013442.30 | IP | Z | C |
| | 13 | 013461.60 | S | | |
| VCR | 13 | 013419.90 | IP | Z | C |
| JCR | 13 | 013426.00 | IP | Z | C |
| | | 013431.80 | S | | |
| PRS | 13 | 013438.40 | IP | Z | C |
| QCR | 13 | 013442.20 | EP | Z | |
| LCR2 | 13 | 013443.00 | IP | Z | C |
| | | 013461.60 | S | | |
| ICR | 13 | 013446.00 | IP | Z | C |
| | | 013467.20 | S | | |
| URS | 13 | 013446.60 | IP | Z | C |
| | | 013467.70 | S | | C |
| BUS | 13 | 013447.10 | IP | Z | |
| ACR | 13 | 013459.00 | EP | Z | |

14 Km al SW de Nicoya, Costa Rica Md=4.8, Intensidad IV Nicoya.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 18 | 095017.00 | IP | Z | D |
| SRA | 18 | 095011.30 | IP | Z | C |
| LCR2 | 18 | 095019.90 | IP | Z | D |
| ICR | 18 | 095020.40 | IP | Z | D |
| URS | 18 | 095021.00 | IP | Z | C |
| ACR | 18 | 095036.30 | IP | Z | D |
| VCR | 18 | 094958.30 | IP | Z | D |
| BUS | 18 | 095023.20 | IP | Z | D |

Terremoto de Guatemala Mb=6.1

| | | | | | |
|-----|----|-----------|----|---|--|
| SJS | 19 | 025755.00 | EP | Z | |
| SRA | 19 | 025744.70 | EP | Z | |

Fuera de las costas de Chiapas, Mexico Mb=4.8

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 19 | 111485.01 | EP | Z | - |
| | | 111492.91 | S | | |
| BUS | 19 | 111478.43 | IP | Z | D |
| URS | 19 | 111479.57 | IP | Z | C |
| ICR | 19 | 111482.25 | IP | Z | D |
| LCR2 | 19 | 111482.55 | IP | Z | C |
| LIO | 19 | 111483.69 | IP | Z | C |
| QCR | 19 | 111478.46 | IP | Z | D |
| PRS | 19 | 111488.18 | IP | Z | C |
| ACR | 19 | 111490.95 | IP | Z | D |

14 Km al N del Cerro de Chirripo, Costa Rica Md=4.2, Intensidad IV Rivas de Pérez Zeledón.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 23 | 151637.90 | IP | Z | D |
| | | 151648.70 | S | | |
| LCR2 | 23 | 151636.20 | IP | Z | D |
| BUS | 23 | 151639.20 | IP | Z | D |
| URS | 23 | 151640.70 | IP | Z | D |

SETIEMBRE 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|-----|-----|-----------|------|------|-----|
| | | 1653.80 | S | | |
| ICR | 23 | 151641.20 | IP | Z | D |
| | | 151655.00 | S | | |
| FOR | 23 | 151643.10 | IP | Z | |
| VCR | 23 | 151644.30 | IP | Z | D |
| ACR | 23 | 151649.70 | EP | Z | |
| LIO | 23 | 151652.40 | EP | Z | + |

15 Km al SW de Punta Judas, Costa Rica Md=4.5, Intensidad IV Jacó.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 23 | 194410.93 | EP | Z | D |
| LCR2 | 23 | 194411.96 | EP | Z | - |
| URS | 23 | 194415.06 | EP | Z | D |
| ICR | 23 | 194414.38 | EP | Z | - |
| QCR | 23 | 194414.99 | EP | Z | D |
| BUS | 23 | 194415.88 | EP | Z | C |

Fractura de Panamá, Mb=4.6

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 24 | 045748.57 | IP | Z | D |
| LCR2 | 24 | 045746.60 | EP | Z | D |
| URS | 24 | 045743.85 | IP | Z | D |
| ICR | 24 | 045745.00 | EP | Z | C |
| LIO | 24 | 045735.84 | EP | Z | C |
| ACR | 24 | 045736.24 | EP | Z | D |
| VCR | 24 | 045810.05 | EP | Z | D |
| BUS | 24 | 045721.80 | EP | Z | D |

Ciudad de Veracruz, Panamá Mb=4.8.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 24 | 160028.30 | IP | Z | |
| ACR | 24 | 160006.00 | IP | Z | D |
| BUS | 24 | 160022.00 | IP | Z | C |
| URS | 24 | 160026.20 | IP | Z | D |
| | | 160044.00 | S | | |
| LCR2 | 24 | 160025.80 | IP | Z | D |
| LIO | 24 | 160028.20 | IP | Z | C |
| ICR | 24 | 160028.40 | IP | Z | D |
| | | 160044.00 | S | | |
| FOR | 24 | 160040.10 | IP | Z | D |
| VCR | 24 | 160040.40 | IP | Z | D |

45 km al SW de Golfito, Costa Rica Md=4.3, Intensidad III Golfito.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 30 | 013851.00 | EP | Z | + |
| LCR2 | 30 | 013850.00 | EP | Z | |

El Salvador, Mb=4.4

PARAMETROS DE LOS EVENTOS LOCALIZADOS
PARTE A
OCTUBRE 1991

| No | DIA | T. ORIG. | LATITUD | LONGITUD | DEPTH | MAG | No | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|----------|-------|-----|----|-----|-----|------|------|------|
| 001 | 01 | 013619.73 | 9°43.30 | 83°59.46 | 9.28 | 2.9 | 6 | 3 | 231 | 0.04 | 0.8 | 0.3 |
| 002 | 01 | 092205.69 | 9°59.67 | 83°17.05 | 36.90 | 3.4 | 7 | 57 | 342 | 0.14 | 4.9 | 1.0 |
| 003 | 02 | 024820.35 | 9°36.08 | 83°36.16 | 12.94 | 3.6 | 10 | 18 | 102 | 0.19 | 1.2 | 2.1 |
| 004 | 02 | 054739.02 | 9°45.85 | 84°00.64 | 10.36 | 2.9 | 10 | 3 | 126 | 0.34 | 1.5 | 3.2 |
| 005 | 02 | 071856.89 | 9°27.99 | 83°38.70 | 12.63 | 3.1 | 12 | 16 | 169 | 0.26 | 1.9 | 2.8 |
| 006 | 02 | 072025.70 | 9°39.88 | 84°53.61 | 35.68 | 3.6 | 9 | 67 | 207 | 0.27 | 5.6 | 2.5 |
| 007 | 02 | 122819.33 | 9°42.47 | 83°54.53 | 6.95 | 2.8 | 9 | 11 | 154 | 0.27 | 1.4 | 1.4 |
| 008 | 03 | 031619.44 | 9°16.68 | 82°58.36 | 32.93 | 3.3 | 6 | 12 | 256 | 0.27 | 8.0 | 3.5 |
| 009 | 03 | 031753.20 | 9°44.95 | 82°55.74 | 84.23 | 3.5 | 6 | 94 | 337 | 0.30 | 18.3 | 16.7 |
| 010 | 03 | 040705.50 | 9°44.63 | 83°54.10 | 14.33 | 3.4 | 6 | 11 | 126 | 0.46 | 5.0 | 5.6 |
| 011 | 03 | 044436.29 | 10°02.16 | 84°17.63 | 91.28 | 3.4 | 7 | 20 | 198 | 0.12 | 6.8 | 2.6 |
| 012 | 03 | 133336.25 | 9°11.98 | 84°16.54 | 6.14 | 3.2 | 6 | 67 | 249 | 0.22 | 4.1 | 4.8 |
| 013 | 03 | 150019.67 | 9°47.87 | 83°33.13 | 15.00 | 3.8 | 6 | 25 | 320 | 0.24 | 5.3 | 0.6 |
| 014 | 03 | 234500.82 | 9°53.52 | 84°21.24 | 15.17 | 4.4 | 5 | 6 | 160 | 0.15 | 3.5 | 1.9 |
| 015 | 04 | 001931.42 | 11°18.46 | 85°59.81 | 84.61 | 4.3 | 8 | 137 | 322 | 0.22 | 15.9 | 27.4 |
| 016 | 04 | 040919.29 | 9°44.63 | 84°01.18 | 20.21 | 2.6 | 6 | 2 | 165 | 0.45 | 7.9 | 4.9 |
| 017 | 04 | 052206.41 | 9°46.14 | 84°01.66 | 18.02 | 3.6 | 7 | 19 | 212 | 0.32 | 2.5 | 4.2 |
| 018 | 04 | 052727.69 | 9°47.17 | 84°01.54 | 5.00 | 2.9 | 7 | 5 | 131 | 0.29 | 1.9 | 1.6 |
| 019 | 04 | 053114.32 | 9°44.63 | 84°00.28 | 5.00 | 2.8 | 4 | 0 | 155 | 0.26 | *** | *** |
| 020 | 04 | 054359.80 | 9°42.33 | 84°03.06 | 5.00 | 2.9 | 6 | 7 | 182 | 0.28 | 2.7 | 2.3 |
| 021 | 04 | 203850.76 | 9°49.05 | 83°21.97 | 12.60 | 3.2 | 12 | 35 | 130 | 0.21 | 0.9 | 1.2 |
| 022 | 05 | 060700.23 | 9°39.38 | 82°49.32 | 31.97 | 3.3 | 8 | 46 | 239 | 0.30 | 2.0 | 2.6 |
| 023 | 05 | 102925.19 | 9°37.32 | 84°07.89 | 39.23 | 2.2 | 7 | 19 | 222 | 0.13 | 3.2 | 1.8 |
| 024 | 06 | 051351.88 | 9°48.72 | 84°20.42 | 4.74 | 2.8 | 5 | 6 | 279 | 0.14 | 1.1 | 0.1 |
| 025 | 06 | 102925.19 | 9°37.32 | 84°07.89 | 39.23 | 2.2 | 7 | 19 | 222 | 0.13 | 3.2 | 1.8 |
| 026 | 06 | 191942.67 | 9°28.72 | 83°41.41 | 12.16 | 3.2 | 5 | 11 | 339 | 0.21 | 0.2 | 0.1 |
| 027 | 07 | 173835.94 | 10°02.88 | 83°57.96 | 95.29 | 3.8 | 6 | 15 | 214 | 0.08 | 3.4 | 1.7 |
| 028 | 08 | 032712.42 | 9°44.63 | 84°05.43 | 9.91 | 3.6 | 10 | 10 | 144 | 0.43 | 3.0 | 2.7 |
| 029 | 08 | 104214.76 | 9°29.55 | 83.39.06 | 14.38 | 3.8 | 11 | 14 | 149 | 0.19 | 0.9 | 1.1 |
| 030 | 09 | 024016.55 | 9°09.17 | 82°46.19 | 15.00 | 3.9 | 7 | 71 | 240 | 0.24 | 4.0 | 12.2 |
| 031 | 09 | 062958.58 | 10°19.43 | 84°12.06 | 84.32 | 3.9 | 7 | 45 | 246 | 0.45 | 16.6 | 4.1 |
| 032 | 09 | 085326.42 | 9°11.88 | 82°44.69 | 25.25 | 3.7 | 7 | 76 | 241 | 0.40 | 3.6 | 3.6 |
| 033 | 09 | 102139.32 | 8°21.45 | 83°01.37 | 18.53 | 4.3 | 8 | 36 | 307 | 0.30 | 5.7 | 2.5 |
| 034 | 09 | 233852.95 | 9°44.22 | 83°58.38 | 4.47 | 2.6 | 6 | 3 | 149 | 0.24 | 1.3 | 1.5 |
| 035 | 10 | 051041.24 | 9°42.08 | 84°00.28 | 8.46 | 2.9 | 6 | 5 | 176 | 0.35 | 5.7 | 4.1 |
| 036 | 10 | 133251.19 | 9°48.60 | 83°20.70 | 10.88 | 3.1 | 14 | 33 | 127 | 0.19 | 0.8 | 1.6 |
| 037 | 10 | 150131.15 | 9°31.63 | 83°42.57 | 16.31 | 3.1 | 7 | 6 | 152 | 0.23 | 1.5 | 2.8 |
| 038 | 10 | 180506.26 | 9°24.97 | 82°46.73 | 7.00 | 3.8 | 9 | 95 | 269 | 0.20 | 9.4 | 10.3 |
| 039 | 11 | 034935.45 | 9°49.64 | 82°57.73 | 32.00 | 3.4 | 11 | 22 | 230 | 0.43 | 2.9 | 2.0 |
| 040 | 11 | 040836.49 | 9°23.34 | 82°46.25 | 21.10 | 4.6 | 8 | 74 | 237 | 0.17 | 2.2 | 2.1 |
| 041 | 11 | 065111.96 | 9°28.38 | 84°10.91 | 37.54 | 2.8 | 7 | 35 | 261 | 0.06 | 0.9 | 1.1 |
| 042 | 11 | 085012.80 | 9°53.67 | 83°02.01 | 21.69 | 3.0 | 10 | 11 | 220 | 0.15 | 1.4 | 2.3 |
| 043 | 12 | 000818.01 | 9°27.34 | 83°48.01 | 31.60 | 3.5 | 6 | 12 | 243 | 0.03 | 0.3 | 0.4 |
| 044 | 12 | 064057.76 | 9°46.07 | 83°13.50 | 12.76 | 3.1 | 8 | 28 | 236 | 0.16 | 3.9 | 3.5 |
| 045 | 12 | 071519.21 | 9°28.22 | 83°41.13 | 15.47 | 3.1 | 12 | 12 | 117 | 0.26 | 1.3 | 1.3 |

OCTUBRE 1991

| No | DIA | T. ORIG. | LATITUD | LONGITUD | DEPTH | MAG | No | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|----------|---------|-----|----|-----|-----|------|------|---------|
| 046 | 12 | 074717.11 | 9°43.98 | 83°16.54 | 33.15✓ | 2.8 | 8 | 34 | 213 | 0.12 | 1.7 | 2.8 |
| 047 | 12 | 080925.63 | 9°51.04 | 83°20.12 | 9.96 | 3.6 | 12 | 30 | 137 | 0.13 | 0.6 | 1.1 |
| 048 | 12 | 083035.04 | 9°44.63 | 84°00.28 | 9.10 | 2.4 | 7 | 0 | 142 | 0.18 | 1.4 | 2.0 |
| 049 | 12 | 084318.44 | 9°42.46 | 84°01.39 | 7.12 | 2.6 | 6 | 4 | 177 | 0.21 | 3.1 | 1.3 |
| 050 | 12 | 113334.12 | 9°45.69 | 84°01.68 | 8.02 | 2.7 | 8 | 3 | 160 | 0.27 | 2.0 | 1.8 |
| 051 | 12 | 143126.41 | 9°44.99 | 84°40.03 | 39.28✓ | 3.5 | 9 | 41 | 169 | 0.47 | 6.7 | 2.4 |
| 052 | 13 | 111409.24 | 9°24.60 | 83°49.42 | 7.26 | 3.4 | 10 | 8 | 240 | 0.16 | 1.3 | 2.8 |
| 053 | 14 | 054819.16 | 9°50.64 | 84°20.33 | 7.61 | 2.9 | 7 | 3 | 312 | 0.14 | 1.9 | 1.1 |
| 054 | 14 | 103305.00 | 9°50.64 | 84°19.75 | 14.01 | 2.9 | 11 | 2 | 165 | 0.24 | 1.6 | 1.3 |
| 055 | 14 | 160920.36 | 9°48.42 | 83°24.21 | 7.50 | 3.2 | 14 | 39 | 128 | 0.34 | 1.5 | 3.6 |
| 056 | 14 | 165336.72 | 9°45.87 | 83°19.14 | 8.24 | 3.4 | 9 | 34 | 126 | 0.16 | 0.8 | 1.7 |
| 057 | 15 | 064745.00 | 9°18.33 | 84°06.97 | 25.92 | 2.8 | 9 | 15 | 306 | 0.12 | 1.8 | 1.6 |
| 058 | 15 | 173258.57 | 9°12.45 | 82°43.94 | 7.75 | 3.7 | 8 | 78 | 243 | 0.42 | 10.1 | 14.9 |
| 059 | 16 | 090126.20 | 9°50.75 | 83°18.02 | 13.17 | 3.7 | 12 | 27 | 140 | 0.28 | 1.7 | 1.8 |
| 060 | 16 | 095711.14 | 9°44.89 | 82°58.58 | 24.52 | 3.2 | 7 | 29 | 282 | 0.32 | 5.3 | 6.6 |
| 061 | 17 | 083632.51 | 9°35.02 | 82°41.15 | 29.58 | 3.2 | 6 | 116 | 283 | 0.25 | 8.1 | 5.0 |
| 062 | 17 | 183501.85 | 9°48.07 | 83°59.18 | 15.00 | 2.6 | 3 | 17 | 163 | 0.03 | *** | *** |
| 063 | 18 | 063118.82 | 9°23.35 | 84°43.38 | 32.00✓ | 4.2 | 6 | 17 | 194 | 0.32 | 2.7 | 2.0* |
| 064 | 18 | 113925.34 | 9°48.51 | 84°15.94 | 10.05 | 3.5 | 8 | 7 | 147 | 0.21 | 1.4 | 1.9* |
| 065 | 19 | 010956.58 | 9°44.63 | 84°00.28 | 6.52 | 2.8 | 6 | 0 | 189 | 0.28 | 3.3 | 1.4 |
| 066 | 19 | 104026.46 | 9°36.23 | 83°34.71 | 14.65 | 3.1 | 10 | 20 | 105 | 0.25 | 1.3 | 1.6 |
| 067 | 19 | 162907.90 | 9°25.79 | 84°04.32 | 49.66✓ | 3.1 | 8 | 10 | 138 | 0.23 | 3.9 | 2.6 |
| 068 | 19 | 234143.67 | 9°47.57 | 84°03.03 | 6.93 | 2.6 | 7 | 8 | 146 | 0.23 | 2.0 | 1.7 |
| 069 | 20 | 065423.81 | 9°49.14 | 83°58.95 | 8.86 | 2.7 | 7 | 9 | 97 | 0.08 | 0.5 | 1.8 |
| 070 | 20 | 202816.63 | 8°22.95 | 82°52.31 | 16.76 | 3.9 | 11 | 44 | 340 | 0.28 | 5.0 | 2.1 |
| 071 | 20 | 213847.94 | 9°44.63 | 84°00.28 | 5.00 | 2.6 | 5 | 0 | 139 | 0.08 | 0.9 | 0.4 |
| 072 | 20 | 214642.52 | 9°44.43 | 82°57.70 | 11.96 | 3.2 | 12 | 30 | 219 | 0.40 | 3.9 | 6.2 |
| 073 | 20 | 221334.39 | 10°10.81 | 83°08.18 | 8.91 | 3.4 | 9 | 23 | 285 | 0.38 | 5.0 | 4.3 |
| 074 | 20 | 234918.45 | 10°10.10 | 83°04.56 | 27.87✓ | 3.3 | 10 | 21 | 288 | 0.29 | 4.6 | 2.2 |
| 075 | 20 | 235205.31 | 10°26.15 | 84°00.64 | 121.11✓ | 2.9 | 11 | 54 | 206 | 0.48 | 8.2 | 7.4 |
| 076 | 21 | 192639.54 | 9°28.54 | 83°42.53 | 5.39 | 3.1 | 5 | 10 | 117 | 0.20 | 2.2 | 1.8 |
| 077 | 21 | 203222.65 | 9°48.64 | 83°25.54 | 10.60 | 3.6 | 12 | 39 | 130 | 0.21 | 1.1 | 1.5 |
| 078 | 22 | 012327.25 | 9°55.24 | 84°16.76 | 7.58 | 2.9 | 9 | 8 | 164 | 0.28 | 2.2 | 4.1 |
| 079 | 22 | 073342.20 | 10°07.19 | 84°11.98 | 87.40✓ | 3.0 | 11 | 26 | 201 | 0.28 | 3.3 | 2.5 |
| 080 | 22 | 095457.33 | 9°47.23 | 83°20.00 | 11.74 | 3.0 | 11 | 34 | 121 | 0.35 | 1.7 | 2.7 |
| 081 | 23 | 094245.18 | 9°33.45 | 83°58.18 | 15.12 | 3.1 | 8 | 21 | 221 | 0.14 | 1.4 | 2.0 |
| 082 | 25 | 024504.52 | 9°00.19 | 84°03.37 | 37.83✓ | 2.9 | 10 | 69 | 315 | 0.37 | 2.9 | 1.1 |
| 083 | 25 | 074509.94 | 9°20.02 | 83°12.14 | 30.42✓ | 3.7 | 6 | 65 | 222 | 0.28 | 9.2 | 14.6 |
| 084 | 25 | 181116.18 | 9°49.62 | 83°58.34 | 6.12 | 2.9 | 8 | 10 | 78 | 0.24 | 0.8 | 0.8 |
| 085 | 25 | 230644.32 | 10°02.29 | 83°09.95 | 30.81✓ | 3.6 | 12 | 10 | 219 | 0.28 | 2.4 | 1.5* 7) |
| 086 | 26 | 072235.91 | 9°53.00 | 82°26.68 | 12.89 | 4.1 | 11 | 40 | 143 | 0.32 | 2.1 | 2.8* 3) |
| 087 | 26 | 082452.87 | 9°48.25 | 83°59.38 | 9.64 | 2.6 | 4 | 7 | 163 | 0.12 | *** | *** |
| 088 | 26 | 091227.52 | 9°37.75 | 84°37.68 | 21.18 | 3.0 | 6 | 55 | 181 | 0.37 | 0.9 | 5.8 |
| 089 | 26 | 092548.67 | 9°40.77 | 84°33.85 | 38.19✓ | 3.6 | 14 | 34 | 165 | 0.40 | 2.2 | 3.3 |
| 090 | 26 | 100901.93 | 9°56.17 | 84°11.40 | 7.04 | 2.9 | 4 | 15 | 312 | 0.16 | *** | *** |

OCTUBRE 1991

| No | DIA | T. ORIG. | LATITUD | LONGITUD | DEPTH | MAG | No | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|---------|----------|--------|-----|----|-----|-----|------|------|-------|
| 091 | 26 | 132740.60 | 9°49.89 | 83°54.44 | 2.17 | 2.8 | 6 | 14 | 205 | 0.20 | 0.4 | 0.4 |
| 092 | 26 | 191946.53 | 9°15.58 | 84°02.48 | 30.83✓ | 3.3 | 11 | 69 | 196 | 0.48 | 2.3 | 3.7 |
| 093 | 27 | 072831.12 | 9°52.71 | 84°22.42 | 15.00 | 3.3 | 9 | 7 | 171 | 0.36 | 2.9 | 3.3 |
| 094 | 27 | 091024.07 | 9°18.42 | 85°20.07 | 33.33✓ | 3.7 | 9 | 69 | 256 | 0.27 | 9.9 | 6.6 |
| 095 | 27 | 151719.36 | 9°52.97 | 83°19.13 | 24.13 | 3.5 | 11 | 27 | 149 | 0.41 | 2.3 | 5.9 |
| 096 | 27 | 164222.60 | 9°44.63 | 84°00.28 | 9.38 | 2.8 | 5 | 0 | 142 | 0.35 | 5.6 | 3.0 |
| 097 | 28 | 033406.80 | 8°16.43 | 83°27.42 | 26.40 | 3.9 | 10 | 146 | 314 | 0.44 | 6.8 | 2.9 |
| 098 | 28 | 111750.57 | 9°01.15 | 83°56.06 | 20.00 | 4.0 | 4 | 52 | 215 | 0.10 | *** | *** |
| 099 | 28 | 202942.86 | 9°27.95 | 83°01.74 | 15.48 | 3.3 | 12 | 57 | 197 | 0.35 | 2.5 | 9.1 |
| 100 | 28 | 215530.22 | 8°36.21 | 83°36.56 | 36.20✓ | 4.3 | 7 | 107 | 304 | 0.29 | 20.2 | 4.2 |
| 101 | 29 | 022343.26 | 9°47.95 | 83°54.90 | 73.07✓ | 3.8 | 10 | 12 | 192 | 0.35 | 5.0 | 4.3 |
| 102 | 29 | 082322.26 | 9°48.69 | 83°56.18 | 74.64✓ | 3.7 | 10 | 11 | 188 | 0.20 | 2.3 | 1.7* |
| 103 | 30 | 054617.62 | 9°48.34 | 84°01.22 | 12.00 | 3.8 | 12 | 7 | 148 | 0.32 | 1.7 | 1.7 |
| 104 | 30 | 090156.19 | 9°33.50 | 82°30.15 | 12.73 | 4.9 | 9 | 124 | 286 | 0.18 | 3.4 | 4.0* |
| 105 | 30 | 092347.69 | 9°33.21 | 82°29.28 | 16.34 | 3.9 | 8 | 125 | 293 | 0.21 | 2.9 | 3.9 |
| 106 | 31 | 003114.34 | 9°44.63 | 84°00.28 | 7.00 | 3.0 | 12 | 0 | 83 | 0.35 | 1.2 | 1.1 |
| 107 | 31 | 062933.56 | 9°23.65 | 84°24.80 | 22.90 | 4.3 | 10 | 27 | 253 | 0.24 | 2.6 | 4.5 |
| 108 | 31 | 193338.15 | 9°36.62 | 83°02.82 | 7.78 | 3.9 | 10 | 78 | 252 | 0.28 | 3.4 | 3.2 × |

PGM ANASIS Ver 2.0

Diseño:

Guillermo Á Avila R

FEC m:01-10-1991

FEC M:31-10-1991

GMT=00h-24h

LAT= 7.50°-11.50°

LON=82.50°-86.50°

PRF= 0.0- 999.9 Km

MAG= 0.0- 9.9

SIMBOLOGIA:

M=3 □ M=4 ◇ M=5 +

M=6 △ M=7 ▽ M=8 ○

STA *

BASE.:RSN1991

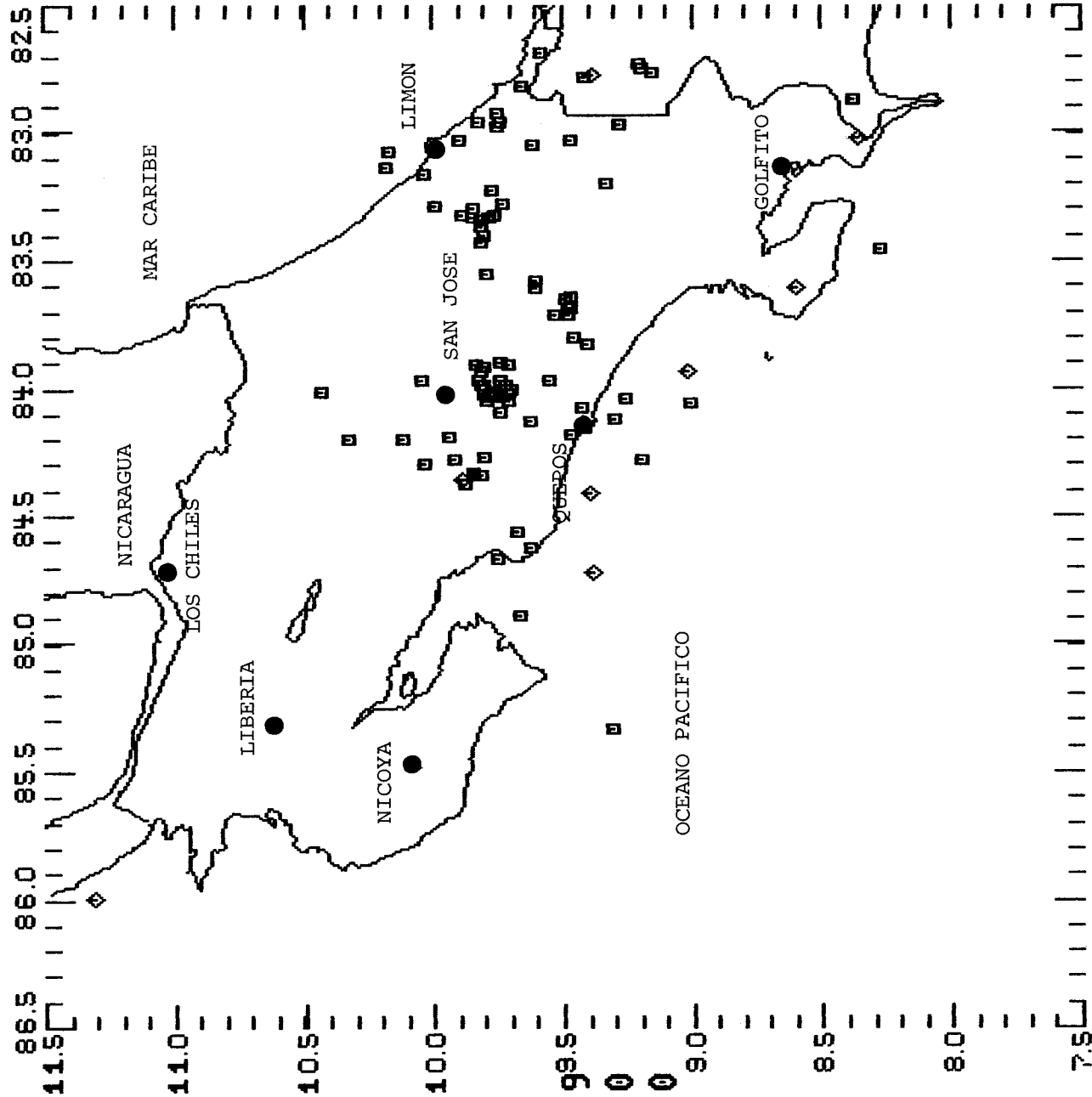
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5<M<6: 0 6<M<7: 0

7<M<8: 0 M>8 : 0

RED SISMOLÓGICA NACIONAL, ICE-UCR
MAPA DE EPICENTROS DE COSTA RICA



PARTE B

LECTURA DE LOS TIEMPOS DE ARRIBO DE LOS SISMOS REGIONALES
TELESISMOS Y EVENTOS LOCALES CON MAGNITUD ≥ 4 .

OCTUBRE 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|--|-----|-----------|------|------|-----|
| SJS | 03 | 234508.48 | IP | Z | C |
| | | 4512.93 | IS | | |
| PRS | 03 | 234503.91 | IP | Z | C |
| | | 4506.75 | | | |
| LCR2 | 03 | 234509.04 | IP | Z | C |
| VCR | 03 | 234524.31 | IP | Z | C |
| 12Km al SW de Santiago de Puriscal, Costa Rica Md= 4.4 Intensidad: IV Santiago y Turrubares, III San José | | | | | |
| SJS | 04 | 002009.70 | EP | Z | D |
| VCR | 04 | 001954.30 | IP | Z | C |
| CGA | 04 | 002004.10 | EP | Z | - |
| PRS | 04 | 002007.30 | EP | Z | |
| LCR2 | 04 | 002011.70 | EP | Z | C |
| BUS | 04 | 002015.30 | EP | Z | |
| ACR | 04 | 002029.50 | EP | Z | |
| 15Km al NW de San Juan del Sur, Nicaragua; Mb= 4.26 | | | | | |
| SJS | 09 | 102212.60 | EP | Z | |
| ACR | 09 | 102146.80 | IP | Z | D |
| BUS | 09 | 102204.20 | IP | Z | C |
| LIO | 09 | 102208.50 | EP | Z | |
| VCR | 09 | 102229.30 | EP | Z | D |
| 39km al SE de Golfito, Costa Rica; Md= 4.28 | | | | | |
| SJS | 09 | 122142.30 | EP | Z | |
| Islas Galápagos; Mb= 5.0 | | | | | |
| SJS | 10 | 233549.70 | EP | Z | |
| VCR | 10 | 233557.00 | EP | Z | |
| BUS | 10 | 233543.70 | EP | Z | |
| Sur de Panamá; Mb= 4.9 | | | | | |
| SJS | 10 | 232142.50 | EP | Z | |
| VCR | 10 | 232150.10 | EP | Z | |
| BUS | 10 | 232136.20 | EP | Z | D |
| Frente a las Costas de America Central, Mb= 4.9 | | | | | |
| SJS | 11 | 040901.52 | IP | Z | + |
| | | 0920.00 | ES | | |
| LIO | 11 | 040849.51 | EP | Z | + |
| ACR | 11 | 040852.30 | EP | Z | + |
| BUS | 11 | 040855.61 | EP | Z | |

OCTUBRE 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|---|-----|-----------|------|------|-----|
| LCR2 | 11 | 040859.78 | IP | Z | C |
| | | 0975.06 | ES | | |
| PRS | 11 | 040905.07 | IP | Z | C |
| VCR | 11 | 040923.63 | IP | Z | C |
| 21Km al SW de Sixaola, territorio Panameño; Md= 4.6 | | | | | |
| SJS | 13 | 011735.50 | EP | Z | |
| ICR | 13 | 011741.30 | EP | Z | |
| PRS | 13 | 011735.00 | EP | Z | |
| Telesismo | | | | | |
| SJS | 13 | 091349.00 | EP | Z | |
| ICR | 13 | 091351.90 | EP | Z | |
| LCR2 | 13 | 091350.10 | EP | Z | |
| PRS | 13 | 091347.00 | EP | Z | |
| BUS | 13 | 091354.00 | EP | Z | |
| AR6 | 13 | 091333.00 | EP | Z | |
| ACR | 13 | 091406.10 | EP | Z | |
| Regional | | | | | |
| SJS | 15 | 031126.50 | EP | Z | |
| ICR | 15 | 031126.60 | EP | Z | |
| LCR2 | 15 | 031123.80 | EP | Z | C |
| | | 74.00 | IS | | |
| URS | 15 | 031124.00 | EP | Z | D |
| PRS | 15 | 031126.10 | EP | Z | D |
| VCR | 15 | 031137.50 | EP | Z | D |
| | | 97.20 | IS | | |
| QCR | 15 | 031119.40 | EP | Z | D |
| Regional | | | | | |
| SJS | 15 | 074959.00 | EP | Z | |
| LCR2 | 15 | 074956.50 | EP | Z | |
| URS | 15 | 074954.80 | EP | Z | |
| Cerca de las costas de Venezuela; Mb= 4.9 | | | | | |
| SJS | 15 | 163730.40 | EP | Z | |
| LCR2 | 15 | 163730.70 | EP | Z | |
| Regional | | | | | |
| SJS | 17 | 054301.00 | EP | Z | |
| Regional | | | | | |
| SJS | 17 | 163152.40 | EP | Z | |
| LCR2 | 17 | 163148.50 | EP | Z | |
| BUS | 17 | 163144.00 | EP | Z | |
| Regional | | | | | |

OCTUBRE 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| SJS | 18 | 063132.96 | EP | Z | D |
| PRS | 18 | 063128.84 | IP | Z | D |
| QCR | 18 | 063131.88 | EP | Z | D |
| LCR2 | 18 | 063131.77 | IP | Z | D |
| URS | 18 | 063136.47 | IP | Z | C |
| ICR | 18 | 063136.53 | IP | Z | D |

22 Km al SW de Esterillos; Costa Rica Md= 4.2 Intensidades II,III
en el Valle Central

| | | | | | |
|------|----|-----------|----|---|--|
| SJS | 20 | 054800.50 | EP | Z | |
| ICR | 20 | 054803.80 | EP | Z | |
| LCR2 | 20 | 054803.70 | EP | Z | |
| URS | 20 | 054804.20 | EP | Z | |
| BUS | 20 | 054808.60 | EP | Z | |
| QCR | 20 | 054804.40 | EP | Z | |
| VCR | 20 | 054741.50 | EP | Z | |
| ACR | 20 | 054820.50 | EP | Z | |

Frente a Costa Pacífica de Nicaragua; Mb= 4.8

| | | | | | |
|------|----|-----------|----|---|--|
| SJS | 26 | 042715.60 | EP | Z | |
| LCR2 | 26 | 042715.00 | EP | Z | |

Regional

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 26 | 072248.32 | IP | Z | D |
| LIO | 26 | 072244.04 | IP | Z | D |
| BUS | 26 | 072245.63 | EP | Z | C |
| LCR2 | 26 | 072247.55 | IP | Z | D |
| QCR | 26 | 072252.40 | EP | Z | C |
| PRS | 26 | 072252.47 | EP | Z | C |
| | | 64.51 | ES | | |
| CGA | 26 | 072255.04 | EP | Z | C |
| | | 68.85 | ES | | |
| ACR | 26 | 072258.58 | EP | Z | C |
| AR6 | 26 | 072304.17 | EP | Z | C |

Moravia de Chirripó; Costa Rica Md= 4.1

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 27 | 162416.90 | EP | Z | D |
| BUS | 27 | 162412.70 | EP | Z | D |
| AR6 | 27 | 162423.80 | EP | Z | |
| ACR | 27 | 162402.90 | EP | Z | |

Región limítrofe Bolivia-Chile; Mb= 5.6

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 28 | 111808.00 | EP | Z | D |
| QCR | 28 | 111800.10 | EP | Z | |
| BUS | 28 | 111801.00 | EP | Z | D |
| ACR | 28 | 111806.50 | EP | Z | |

24Km al S-SW de Punta Dominical, Costa Rica; Md= 4.0

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 28 | 215555.26 | EP | Z | C |
|-----|----|-----------|----|---|---|

| |
|--------------|
| OCTUBRE 1991 |
|--------------|

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| BUS | 28 | 215548.94 | IP | Z | D |
| QCR | 28 | 215548.64 | EP | Z | D |
| LCR2 | 28 | 215552.39 | EP | Z | D |
| PRS | 28 | 215554.82 | EP | Z | C |
| LIO | 28 | 215555.53 | EP | Z | C |
| AR6 | 28 | 215606.83 | EP | Z | D |

14Km al E de Punta Llorona; Costa Rica Md= 4.3

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 30 | 090224.83 | EP | Z | C |
| ACR | 30 | 090217.02 | IP | Z | C |
| BUS | 30 | 090219.21 | IP | Z | C |
| LCR2 | 30 | 090223.27 | IP | Z | D |
| QCR | 30 | 090226.00 | IP | Z | C |
| PRS | 30 | 090228.47 | IP | Z | C |
| AR6 | 30 | 090239.07 | IP | Z | |
| VCR | 30 | 090247.00 | IP | Z | D |

13Km al NE de Sixaola, Territorio Panameño; Md= 4.9 Intensidades
IV Sixaóla y II en San José

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 31 | 062946.66 | EP | Z | D |
| | | 55.16 | IS | | |
| QCR | 31 | 062939.80 | IP | Z | C |
| PRS | 31 | 062943.55 | EP | Z | D |
| | | 50.65 | IS | | |
| LCR2 | 31 | 062944.63 | IP | Z | D |
| BUS | 31 | 062946.59 | IP | Z | |
| URS | 31 | 062948.68 | IP | Z | D |
| ICR | 31 | 062949.74 | EP | Z | D |
| AR6 | 31 | 062954.60 | EP | Z | C |

26km al W de Punta Quepos; Costa Rica Md= 4.3

PARAMETROS DE LOS EVENTOS LOCALIZADOS
PARTE A
NOVIEMBRE 1991

| No | DIA | T. ORIG. | LATITUD | LONGITUD | DEPTH | MAG | No | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|----------|-------|-----|----|-----|-----|------|------|------|
| 001 | 01 | 144235.19 | 9°36.11 | 84°28.94 | 15.2 | 3.5 | 10 | 34 | 242 | 0.23 | 2.3 | 1.8 |
| 002 | 01 | 213532.99 | 9°54.49 | 84°19.12 | 7.9 | 3.2 | 11 | 6 | 135 | 0.37 | 1.9 | 3.2 |
| 003 | 01 | 221013.79 | 9°43.96 | 83°32.88 | 13.4 | 2.9 | 10 | 30 | 278 | 0.42 | 5.0 | 4.1 |
| 004 | 02 | 124735.85 | 8°51.59 | 84°22.42 | 38.7 | 3.4 | 9 | 67 | 322 | 0.53 | 7.7 | 4.4 |
| 005 | 02 | 212929.64 | 10°17.75 | 83°58.55 | 36.4 | 2.8 | 5 | 38 | 323 | 0.52 | 7.6 | 6.7 |
| 006 | 04 | 023109.77 | 9°37.32 | 83°33.81 | 11.9 | 3.4 | 12 | 23 | 194 | 0.34 | 2.0 | 2.8 |
| 007 | 04 | 031359.42 | 9°47.45 | 83°03.06 | 32.2 | 3.9 | 10 | 82 | 267 | 0.43 | 4.2 | 3.1 |
| 008 | 04 | 182648.68 | 9°47.03 | 84°00.28 | 8.1 | 3.0 | 9 | 5 | 92 | 0.28 | 1.4 | 2.8 |
| 009 | 05 | 071236.14 | 9°33.29 | 82°48.66 | 23.2 | 3.2 | 10 | 104 | 269 | 0.17 | 1.7 | 2.5 |
| 010 | 05 | 084406.11 | 9°48.37 | 83°13.38 | 7.6 | 3.1 | 7 | 65 | 251 | 0.19 | 3.1 | 3.7 |
| 011 | 05 | 101821.11 | 9°02.57 | 84°16.38 | 4.0 | 3.4 | 6 | 80 | 248 | 0.35 | 5.2 | 26.9 |
| 012 | 05 | 125040.89 | 9°52.55 | 83°24.73 | 12.3 | 3.4 | 7 | 47 | 245 | 0.38 | 4.1 | 3.1 |
| 013 | 05 | 134502.09 | 9°46.78 | 84°00.28 | 5.7 | 3.0 | 6 | 4 | 117 | 0.32 | 2.6 | 2.1 |
| 014 | 05 | 142004.78 | 9°33.06 | 83°56.23 | 17.5 | 3.5 | 9 | 20 | 153 | 0.50 | 3.0 | 9.0 |
| 015 | 05 | 234224.96 | 9°51.35 | 84°18.84 | 7.0 | 3.7 | 10 | 0 | 157 | 0.47 | 3.2 | 1.9* |
| 016 | 05 | 234603.19 | 9°51.35 | 84°18.84 | 7.0 | 3.0 | 9 | 0 | 157 | 0.39 | 2.2 | 1.2 |
| 017 | 06 | 072802.61 | 9°37.46 | 83°33.61 | 14.9 | 3.3 | 15 | 23 | 106 | 0.40 | 1.2 | 1.9 |
| 018 | 06 | 074303.90 | 9°31.31 | 83°40.06 | 13.6 | 3.0 | 14 | 11 | 109 | 0.34 | 1.2 | 1.8 |
| 019 | 06 | 125812.21 | 9°42.27 | 84°35.05 | 28.7 | 2.9 | 9 | 34 | 213 | 0.29 | 2.9 | 3.8 |
| 020 | 06 | 135243.05 | 9°45.55 | 84°04.26 | 13.8 | 2.6 | 7 | 20 | 168 | 0.28 | 0.9 | 4.5 |
| 021 | 06 | 160738.28 | 9°07.86 | 84°04.70 | 29.4 | 3.2 | 13 | 34 | 224 | 0.35 | 2.0 | 1.9 |
| 022 | 07 | 044601.45 | 9°48.28 | 83°19.22 | 8.0 | 3.6 | 10 | 32 | 188 | 0.28 | 1.7 | 3.5 |
| 023 | 07 | 094747.24 | 9°39.29 | 84°51.74 | 59.0 | 3.4 | 10 | 64 | 248 | 0.33 | 4.6 | 6.4 |
| 024 | 08 | 043521.98 | 9°52.38 | 83°19.85 | 12.5 | 3.3 | 10 | 29 | 144 | 0.26 | 1.5 | 2.4 |
| 025 | 08 | 061503.52 | 9°46.88 | 83°24.57 | 14.2 | 3.5 | 15 | 41 | 122 | 0.43 | 2.2 | 3.2 |
| 026 | 08 | 114659.91 | 9°51.82 | 83°23.63 | 12.8 | 3.6 | 13 | 36 | 138 | 0.35 | 1.7 | 2.6 |
| 027 | 09 | 023630.33 | 9°30.94 | 83°04.49 | 12.0 | 3.6 | 13 | 51 | 188 | 0.33 | 2.0 | 3.8 |
| 028 | 10 | 000236.49 | 9°49.97 | 83°22.07 | 26.1 | 3.1 | 5 | 34 | 173 | 0.37 | 0.1 | 0.2 |
| 029 | 10 | 072407.99 | 9°45.20 | 84°01.23 | 6.2 | 3.2 | 11 | 2 | 85 | 0.26 | 0.9 | 0.8 |
| 030 | 10 | 082017.62 | 9°52.36 | 83°24.89 | 11.9 | 5.2 | 11 | 37 | 140 | 0.23 | 1.3 | 2.2* |
| 031 | 10 | 162636.55 | 9°00.09 | 82°49.35 | 25.0 | 3.6 | 8 | 120 | 333 | 0.38 | 7.7 | 5.4 |
| 032 | 10 | 230109.35 | 9°44.44 | 84°01.62 | 8.3 | 3.6 | 12 | 3 | 88 | 0.38 | 1.4 | 2.5 |
| 033 | 11 | 042413.06 | 9°30.68 | 83°37.00 | 14.5 | 3.4 | 12 | 16 | 109 | 0.42 | 1.6 | 2.5 |
| 034 | 12 | 022702.20 | 9°06.69 | 84°13.60 | 73.7 | 3.2 | 8 | 36 | 307 | 0.45 | 5.0 | 5.7 |
| 035 | 12 | 023007.98 | 9°16.03 | 84°29.00 | 83.0 | 3.4 | 8 | 39 | 308 | 0.42 | 9.0 | 6.0 |
| 036 | 12 | 051643.53 | 8°19.25 | 83°24.39 | 19.6 | 4.0 | 9 | 142 | 315 | 0.56 | 11.2 | 4.6 |
| 037 | 12 | 105758.28 | 9°11.96 | 84°13.21 | 34.9 | 3.1 | 13 | 26 | 234 | 0.43 | 3.4 | 2.1 |
| 038 | 13 | 045250.18 | 8°20.00 | 82°52.48 | 63.7 | 3.1 | 11 | 184 | 318 | 0.53 | 11.0 | 55.4 |
| 039 | 14 | 104159.46 | 9°45.46 | 84°01.18 | 4.4 | 3.4 | 8 | 20 | 87 | 0.41 | 1.2 | 1.7 |
| 040 | 15 | 034107.01 | 9°48.74 | 84°07.63 | 60.9 | 3.2 | 12 | 16 | 118 | 0.39 | 3.2 | 3.0 |
| 041 | 15 | 042205.35 | 9°45.48 | 84°04.07 | 6.6 | 3.0 | 7 | 7 | 168 | 0.41 | 2.1 | 1.5 |
| 042 | 15 | 114915.02 | 9°17.52 | 82°58.78 | 34.1 | 3.6 | 12 | 74 | 247 | 0.46 | 4.9 | 2.3 |
| 043 | 17 | 031149.22 | 9°27.86 | 84°33.01 | 12.7 | 2.6 | 10 | 63 | 284 | 0.37 | 2.7 | 2.9 |
| 044 | 17 | 115700.71 | 9°35.21 | 84°04.99 | 28.9 | 2.6 | 9 | 20 | 112 | 0.37 | 2.5 | 4.8 |
| 045 | 17 | 150348.03 | 9°29.61 | 84°14.86 | 38.2 | 3.7 | 13 | 12 | 208 | 0.43 | 2.9 | 2.1 |

NOVIEMBRE 1991

| No | DIA | T. ORIG. | LATITUD | LONGITUD | DEPTH | MAG | No | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|----------|-------|-----|----|-----|-----|------|-----|-----|
| 046 | 17 | 154244.12 | 9°38.52 | 84°04.89 | 39.7✓ | 3.0 | 5 | 14 | 293 | 0.29 | 7.5 | 4.7 |
| 047 | 18 | 033458.63 | 9°48.59 | 83°51.46 | 29.8 | 2.8 | 5 | 9 | 210 | 0.30 | 3.6 | 1.0 |
| 048 | 18 | 173629.71 | 9°26.38 | 84°14.47 | 29.7 | 2.7 | 10 | 8 | 240 | 0.29 | 2.0 | 3.2 |
| 049 | 18 | 224335.39 | 9°42.81 | 82°57.87 | 26.6 | 3.2 | 12 | 33 | 216 | 0.23 | 1.2 | 1.5 |
| 050 | 18 | 233923.75 | 9°19.77 | 83°43.99 | 40.0✓ | 2.6 | 11 | 25 | 145 | 0.42 | 2.9 | 1.7 |
| 051 | 18 | 235534.95 | 9°24.86 | 83°44.45 | 19.5 | 3.0 | 7 | 16 | 277 | 0.30 | 3.8 | 3.0 |
| 052 | 19 | 031256.41 | 9°47.53 | 84°01.46 | 6.8 | 3.0 | 6 | 6 | 125 | 0.28 | 1.9 | 1.6 |
| 053 | 19 | 153232.16 | 9°11.54 | 84°02.26 | 21.5 | 3.5 | 13 | 30 | 210 | 0.36 | 2.3 | 6.7 |
| 054 | 19 | 165952.18 | 9°30.24 | 84°45.31 | 23.5 | 3.2 | 11 | 104 | 272 | 0.36 | 5.4 | 6.5 |
| 055 | 19 | 200853.53 | 9°25.78 | 83°15.95 | 28.8 | 2.3 | 12 | 56 | 218 | 0.49 | 3.9 | 4.0 |
| 056 | 20 | 030935.59 | 9°29.84 | 83°49.72 | 17.5 | 3.2 | 5 | 10 | 208 | 0.13 | 0.2 | 0.2 |
| 057 | 20 | 042619.12 | 9°44.75 | 83°48.60 | 5.5 | 2.6 | 8 | 10 | 145 | 0.34 | 1.1 | 1.6 |
| 058 | 20 | 051613.47 | 9°44.63 | 84°03.08 | 12.9 | 2.4 | 12 | 5 | 93 | 0.31 | 1.1 | 3.1 |
| 059 | 20 | 065942.02 | 10°29.99 | 84°26.12 | 39.4✓ | 2.7 | 11 | 73 | 219 | 0.36 | 4.0 | 2.5 |
| 060 | 20 | 135709.71 | 9°44.63 | 83°59.34 | 11.2 | 2.5 | 8 | 2 | 134 | 0.31 | 2.2 | 1.9 |
| 061 | 20 | 175358.54 | 9°38.97 | 83°42.61 | 5.5 | 2.1 | 7 | 12 | 227 | 0.39 | 3.3 | 2.0 |
| 062 | 20 | 224247.84 | 9°33.42 | 83°52.96 | 12.0 | 2.1 | 6 | 14 | 155 | 0.28 | 2.1 | 4.8 |
| 063 | 21 | 020242.83 | 9°51.29 | 83°21.41 | 15.4 | 2.0 | 10 | 32 | 169 | 0.36 | 3.0 | 2.7 |
| 064 | 21 | 054518.31 | 9°41.42 | 84°01.59 | 4.9 | 1.9 | 5 | 6 | 183 | 0.30 | 2.9 | 2.3 |
| 065 | 21 | 085623.52 | 9°46.70 | 83°26.07 | 15.6 | 1.6 | 9 | 38 | 176 | 0.34 | 3.2 | 2.3 |
| 066 | 21 | 095522.91 | 9°22.58 | 82°49.90 | 19.8 | 3.6 | 15 | 73 | 228 | 0.34 | 1.9 | 2.1 |
| 067 | 21 | 100249.47 | 9°41.61 | 83°40.40 | 15.7 | 2.2 | 7 | 18 | 240 | 0.36 | 5.6 | 4.5 |
| 068 | 21 | 160714.93 | 9°37.90 | 83°35.48 | 5.5 | 2.5 | 9 | 20 | 280 | 0.25 | 1.6 | 1.3 |
| 069 | 21 | 193047.10 | 9°45.10 | 83°19.04 | 12.5 | 2.8 | 13 | 35 | 201 | 0.42 | 2.6 | 3.1 |
| 070 | 22 | 023102.68 | 9°30.37 | 83°42.96 | 12.4 | 2.2 | 10 | 7 | 271 | 0.29 | 1.4 | 1.5 |
| 071 | 22 | 035135.35 | 9°22.44 | 83°55.02 | 5.6 | 2.7 | 6 | 27 | 241 | 0.23 | 1.6 | 2.8 |
| 072 | 22 | 101805.80 | 9°46.51 | 83°19.68 | 14.4 | 2.2 | 8 | 34 | 194 | 0.29 | 3.5 | 2.8 |
| 073 | 22 | 144108.15 | 9°36.18 | 83°35.40 | 14.6 | 2.8 | 11 | 19 | 200 | 0.31 | 1.4 | 1.2 |
| 074 | 22 | 144313.72 | 9°32.18 | 83°34.07 | 15.8 | 3.2 | 10 | 21 | 109 | 0.32 | 1.5 | 2.2 |
| 075 | 22 | 194701.56 | 9°38.94 | 83°56.60 | 6.9 | 2.4 | 7 | 12 | 108 | 0.31 | 1.8 | 1.9 |
| 076 | 23 | 075322.04 | 9°38.14 | 84°02.73 | 56.7✓ | 1.9 | 10 | 13 | 100 | 0.10 | 1.0 | 0.8 |
| 077 | 23 | 032204.70 | 9°31.86 | 83°57.27 | 6.3 | 2.3 | 9 | 22 | 161 | 0.30 | 1.5 | 3.1 |
| 078 | 23 | 125834.18 | 9°44.85 | 83°19.41 | 13.4 | 2.6 | 10 | 51 | 237 | 0.32 | 1.6 | 1.6 |
| 079 | 24 | 200530.57 | 9°10.62 | 83°55.90 | 37.0✓ | 2.5 | 14 | 46 | 203 | 0.41 | 2.7 | 2.1 |
| 080 | 24 | 214237.52 | 9°23.50 | 82°53.15 | 28.3 | 2.6 | 12 | 69 | 220 | 0.39 | 2.2 | 2.1 |
| 081 | 26 | 083301.58 | 9°47.60 | 83°20.63 | 12.1 | 2.4 | 13 | 34 | 122 | 0.28 | 1.4 | 1.8 |
| 082 | 26 | 230601.49 | 9°45.59 | 84°02.16 | 10.1 | 3.2 | 15 | 4 | 82 | 0.41 | 1.3 | 2.0 |
| 083 | 27 | 013732.42 | 9°23.40 | 84°10.02 | 22.4 | 3.2 | 15 | 4 | 229 | 0.43 | 2.4 | 1.9 |
| 084 | 28 | 045840.66 | 9°54.55 | 83°25.89 | 13.6 | 2.5 | 5 | 65 | 330 | 0.36 | 3.0 | 1.8 |
| 085 | 28 | 112648.72 | 9°37.39 | 84°12.41 | 39.4✓ | 3.2 | 15 | 22 | 122 | 0.35 | 1.7 | 1.1 |
| 086 | 28 | 150113.17 | 9°36.34 | 85°07.58 | 33.4✓ | 3.6 | 11 | 80 | 216 | 0.32 | 2.6 | 1.9 |
| 087 | 28 | 200722.22 | 9°29.41 | 83°56.27 | 5.3 | 2.6 | 9 | 21 | 185 | 0.24 | 2.1 | 2.6 |
| 088 | 28 | 201101.07 | 9°28.98 | 83°54.58 | 14.4 | 2.1 | 8 | 18 | 193 | 0.44 | 0.8 | 1.1 |
| 089 | 28 | 223804.54 | 9°48.13 | 83°18.54 | 17.0 | 4.6 | 10 | 31 | 123 | 0.28 | 1.8 | 3.2 |
| 090 | 29 | 172042.33 | 9°22.79 | 84°39.79 | 36.5✓ | 2.6 | 11 | 55 | 291 | 0.21 | 2.9 | 1.1 |

NOVIEMBRE 1991

| No | DIA | T. ORIG. | LATITUD | LONGITUD | DEPTH | MAG | No | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|----------|-------|-----|----|----|-----|------|-----|-----|
| 091 | 29 | 201952.86 | 9°32.94 | 83°53.54 | 15.1 | 1.9 | 6 | 15 | 159 | 0.46 | 5.0 | 6.7 |
| 092 | 29 | 220030.37 | 9°22.47 | 84°38.35 | 31.5 | 3.5 | 11 | 52 | 191 | 0.18 | 3.1 | 2.9 |
| 093 | 30 | 001053.95 | 10°10.99 | 84°18.34 | 86.1 | 2.3 | 10 | 25 | 206 | 0.31 | 3.6 | 2.5 |
| 094 | 30 | 020734.23 | 9°51.35 | 84°19.98 | 6.5 | 2.9 | 12 | 2 | 157 | 0.37 | 1.7 | 0.8 |
| 095 | 30 | 043713.55 | 9°51.88 | 84°18.98 | 10.1 | 2.1 | 7 | 1 | 157 | 0.32 | 5.7 | 2.7 |
| 096 | 30 | 054713.84 | 9°55.17 | 84°16.70 | 6.1 | 1.6 | 7 | 8 | 183 | 0.29 | 3.5 | 2.9 |
| 097 | 30 | 102323.82 | 9°40.69 | 83°25.33 | 14.4 | 2.4 | 13 | 39 | 119 | 0.33 | 1.2 | 2.0 |
| 098 | 30 | 140609.39 | 9°29.50 | 83°40.76 | 15.0 | 2.1 | 10 | 11 | 165 | 0.50 | 3.0 | 2.2 |

PGM ANASIS Ver 2.0

Diseño:

Guillermo Á Avila R

FEC m:01-11-1991

FEC M:31-11-1991

GMT=00h-24h

LAT= 7.50°-11.50°

LON=82.50°-86.50°

PRF= 0.0- 999.9 Km

MAG= 0.0- 9.9

SIMBOLOGIA:

M=3 □ M=4 ◇ M=5 +

M=6 △ M=7 ▽ M=8 ○

STA *

BASE.:RSN1991

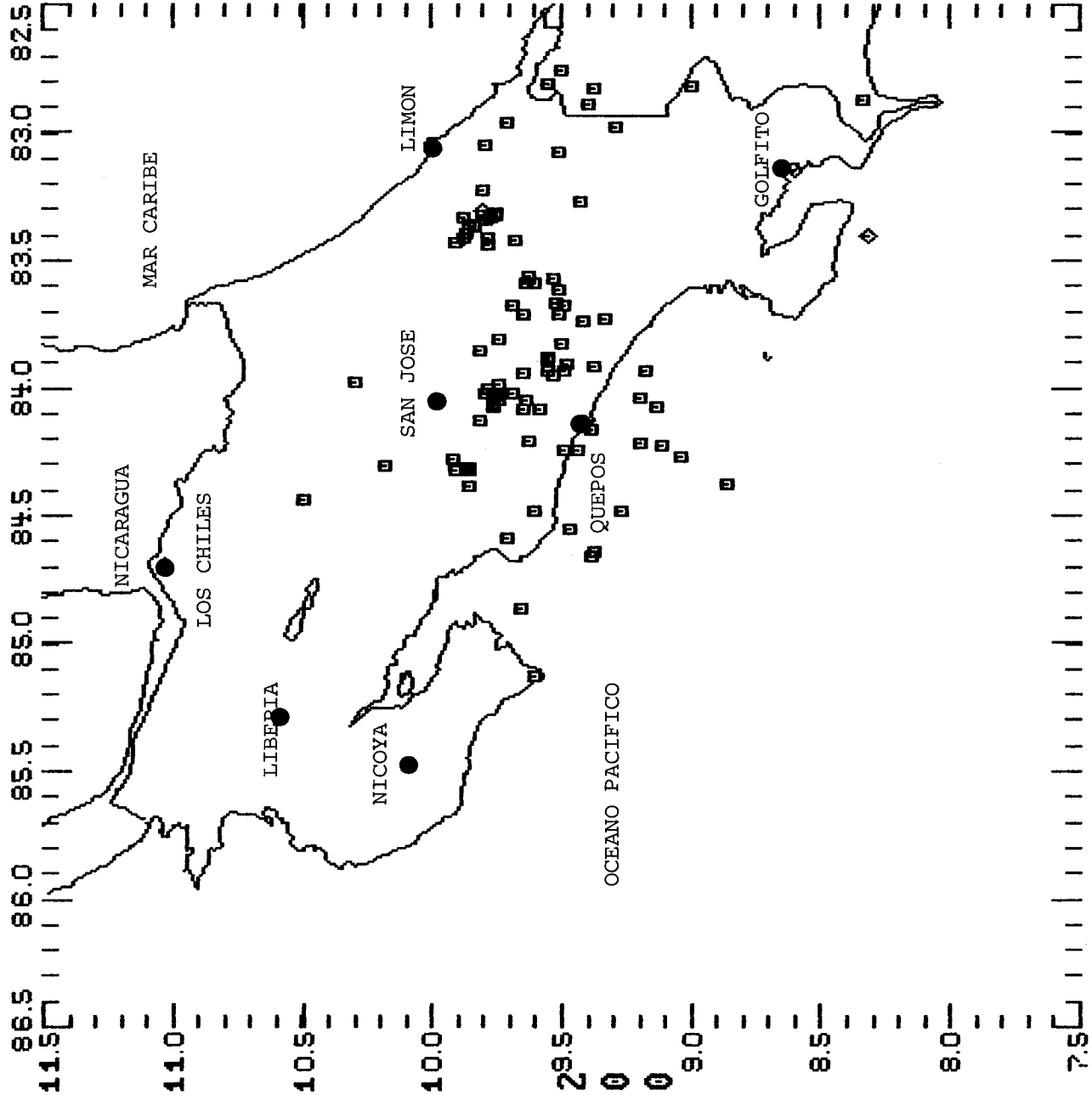
N SIS: 98

M≤3.9: 95 4≤M<5: 29.5

5≤M<6: 1 6≤M<7: 0

7≤M<8: 0 M≥8 : 0

RED SIMBOLOGICA NACIONAL, ICE-UCR MAPA DE EPICENTROS DE COSTA RICA



PARTE B

LECTURA DE LOS TIEMPOS DE ARRIBO DE LOS SISMOS REGIONALES

TELESISMOS Y EVENTOS LOCALES CON MAGNITUD ≥ 4 .

| NOVIEMBRE 1991 | | | | | |
|--|-----|-----------|------|------|-----|
| EST | DIA | TIEMPO | FASE | COMP | POL |
| SJS | 06 | 230142.60 | EP | Z | - |
| PRS | 06 | 230143.10 | EP | Z | |
| LCR2 | 06 | 230153.20 | EP | Z | |
| Telesismo | | | | | |
| SJS | 07 | 094052.70 | IP | Z | C |
| LCR2 | 07 | 094051.10 | IP | Z | D |
| PRS | 07 | 094053.20 | IP | Z | D |
| Banda Sea; Mb= 5.9 | | | | | |
| SJS | 07 | 173000.00 | EP | Z | |
| PRS | 07 | 173001.10 | IP | Z | |
| Telesismo | | | | | |
| SJS | 08 | 093205.60 | EP | Z | - |
| ICR | 08 | 093217.80 | EP | Z | |
| LCR2 | 08 | 093213.50 | EP | Z | |
| Telesismo | | | | | |
| SJS | 08 | 184821.10 | EP | Z | |
| ICR | 08 | 184821.90 | EP | Z | |
| LCR2 | 08 | 184822.10 | IP | Z | + |
| Telesismo | | | | | |
| SJS | 10 | 043456.10 | EP | Z | |
| PRS | 10 | 043452.20 | EP | Z | |
| Telesismo | | | | | |
| SJS | 11 | 175100.00 | IP | Z | |
| LCR2 | 11 | 175100.00 | EP | Z | |
| PRS | 11 | 175048.20 | EP | Z | + |
| Costas de Jalisco, Mexico; Mb= 5.5 Ms= 5.7 | | | | | |
| SJS | 13 | 113148.90 | IP | Z | + |
| LCR2 | 13 | 113149.90 | IP | Z | + |
| PRS | 13 | 113147.90 | IP | Z | |
| Mindanao, Islas Filipinas; Mb= 6.1 Ms= 6.4 | | | | | |
| SJS | 13 | 202942.40 | EP | Z | + |
| LCR2 | 13 | 202944.20 | EP | Z | |

NOVIEMBRE 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|--|-----|-----------|------|------|-----|
| Sur de Panamá; Mb= 6.1 Ms= 6.4 | | | | | |
| SJS | 17 | 030031.90 | IP | Z | - |
| LCR2 | 17 | 030028.90 | IP | Z | - |
| URS | 17 | 030029.10 | IP | Z | + |
| PRS | 17 | 030031.50 | EP | Z | |
| Telesismo | | | | | |
| SJS | 19 | 150048.80 | IP | Z | + |
| LCR2 | 19 | 150049.90 | EP | Z | |
| Telesismo | | | | | |
| SJS | 19 | 223056.40 | IP | Z | + |
| LCR2 | 19 | 223041.10 | EP | Z | |
| ICR | 19 | 223055.10 | IP | Z | + |
| PRS | 19 | 223057.90 | IP | Z | + |
| URS | 19 | 223053.20 | IP | Z | + |
| Cerca de las Costas de Colombia; Mb= 6.5 Ms= 7.0 | | | | | |
| SJS | 21 | 125803.90 | IP | Z | + |
| LCR2 | 21 | 125803.10 | IP | Z | + |
| URS | 21 | 125803.40 | IP | Z | D |
| Islas Tonimbor; Mb= 4.9 | | | | | |
| SJS | 24 | 113803.90 | IP | Z | - |
| LCR2 | 24 | 113802.50 | IP | Z | C |
| ICR | 24 | 113801.10 | IP | Z | |
| PRS | 24 | 113804.20 | IP | Z | |
| Islas Kermadec; Mb= 4.9 Ms= 4.9 | | | | | |
| SJS | 26 | 055319.40 | IP | Z | D |
| VCR | 26 | 055307.90 | IP | Z | |
| ICR | 26 | 055323.90 | IP | Z | |
| LCR2 | 26 | 055318.10 | IP | Z | |
| PRS | 26 | 055316.00 | IP | Z | + |
| Telesismo | | | | | |
| SJS | 27 | 114720.10 | IP | Z | + |
| LCR2 | 27 | 114713.10 | IP | Z | |
| PRS | 27 | 114721.90 | IP | Z | |
| Cerca de las Costas de Colombia; Mb= 5.1 | | | | | |

*Sismos sentidos

PARAMETROS DE LOS EVENTOS LOCALIZADOS
PARTE A
DICIEMBRE 1991

| No | DIA | T. ORIG. | LATITUD | LONGITUD | DEPTH | MAG | No | DM | RMS | ERH | ERZ |
|-----|-----|-----------|----------|----------|-------|-----|----|-----|------|-----|------|
| 001 | 02 | 150958.87 | 9°45.84 | 83°58.20 | 76.3 | 2.4 | 7 | 4 | 0.15 | 1.4 | 2.0 |
| 002 | 03 | 220257.34 | 9°47.28 | 83°54.70 | 9.3 | 2.1 | 6 | 11 | 0.21 | 1.1 | 1.1 |
| 003 | 04 | 032703.95 | 8°21.58 | 82°54.40 | 21.7 | 3.2 | 7 | 186 | 0.45 | 9.9 | 6.5 |
| 004 | 04 | 101326.27 | 9°46767 | 84°02.80 | 12.8 | 2.7 | 10 | 6 | 0.36 | 0.9 | 1.0 |
| 005 | 04 | 124240.74 | 9°33.46 | 84°05.40 | 41.6 | 2.5 | 8 | 17 | 0.33 | 1.4 | 1.6 |
| 006 | 04 | 152432.23 | 9°52.19 | 83°26.30 | 16.1 | 2.6 | 7 | 37 | 0.29 | 0.9 | 2.1 |
| 007 | 04 | 162425.40 | 9°44.28 | 83°52.80 | 7.1 | 1.9 | 7 | 13 | 0.37 | 1.1 | 0.9 |
| 008 | 04 | 170508.03 | 9°46.24 | 83°53.50 | 84.0 | 2.5 | 7 | 13 | 0.25 | 0.8 | 0.5 |
| 009 | 04 | 174453.49 | 10°26.56 | 84°06.10 | 31.2 | 3.4 | 15 | 56 | 0.18 | 0.5 | 1.3* |
| 010 | 04 | 205637.83 | 11°26.06 | 84°53.80 | 22.6 | 3.5 | 6 | 165 | 0.47 | 2.1 | 16.6 |
| 011 | 05 | 024022.74 | 9°42.70 | 82°55.20 | 25.9 | 2.9 | 13 | 35 | 0.20 | 0.9 | 1.0 |
| 012 | 05 | 025246.70 | 9°45.14 | 84°00.70 | 42.0 | 2.6 | 8 | 2 | 0.15 | 0.4 | 0.6 |
| 013 | 05 | 043746.08 | 8°52.25 | 83°05.50 | 26.8 | 2.6 | 10 | 26 | 0.26 | 2.1 | 1.1 |
| 014 | 05 | 044406.37 | 9°14.42 | 83°57.50 | 41.1 | 2.5 | 9 | 31 | 0.20 | 1.0 | 0.8 |
| 015 | 05 | 132121.33 | 9°47.35 | 84°00.50 | 6.1 | 2.6 | 8 | 5 | 0.26 | 0.6 | 1.5 |
| 016 | 06 | 000422.92 | 9°53.79 | 84°18.40 | 7.1 | 2.0 | 9 | 5 | 0.27 | 0.7 | 0.8 |
| 017 | 06 | 013139.71 | 8°59.22 | 83°07.00 | 25.0 | 3.6 | 8 | 94 | 0.20 | 3.5 | 5.9* |
| 018 | 06 | 111832.78 | 9°37.55 | 84°00.20 | 0.5 | 2.1 | 6 | 13 | 0.18 | 0.4 | 0.5* |
| 019 | 06 | 185414.09 | 9°57.09 | 84°38.70 | 32.9 | 3.0 | 6 | 21 | 0.41 | 3.5 | 5.1 |
| 020 | 07 | 030937.74 | 9°45.18 | 84°02.70 | 69.0 | 2.6 | 7 | 5 | 0.28 | 0.7 | 1.3 |
| 021 | 07 | 101842.95 | 8°54.56 | 84°01.30 | 16.1 | 2.7 | 12 | 59 | 0.34 | 1.6 | 1.8 |
| 022 | 07 | 115641.56 | 9°36.39 | 84°06.80 | 68.3 | 2.2 | 4 | 19 | 0.03 | 0.1 | 0.1 |
| 023 | 07 | 141426.77 | 8°46.87 | 84°07.10 | 16.2 | 3.2 | 10 | 94 | 0.31 | 3.2 | 1.8 |
| 024 | 07 | 163016.77 | 9°03.18 | 82°58.80 | 25.3 | 2.9 | 9 | 49 | 0.34 | 2.8 | 1.3 |
| 025 | 08 | 113005.15 | 9°10.44 | 84°08.10 | 40.3 | 2.8 | 10 | 28 | 0.32 | 1.5 | 1.0 |
| 026 | 08 | 123128.73 | 8°46.60 | 84°06.40 | 36.3 | 3.0 | 11 | 72 | 0.25 | 1.7 | 1.2 |
| 027 | 08 | 193025.71 | 8°07.27 | 82°48.60 | 4.8 | 3.7 | 10 | 190 | 0.42 | 4.5 | 6.3 |
| 028 | 09 | 012212.64 | 849.450 | 84°07.60 | 11.0 | 3.1 | 13 | 67 | 0.21 | 1.0 | 0.9 |
| 029 | 09 | 072152.18 | 9°53.72 | 84°02.70 | 7.1 | 2.6 | 8 | 5 | 0.26 | 0.9 | 0.7* |
| 030 | 09 | 084858.46 | 9°47.42 | 83°16.60 | 3.8 | 2.9 | 6 | 29 | 0.06 | 0.4 | 0.8 |
| 031 | 09 | 085832.51 | 9°36.64 | 83°08.40 | 7.1 | 2.8 | 9 | 36 | 0.26 | 1.0 | 1.3 |
| 032 | 09 | 121744.44 | 8°52.85 | 84°07.90 | 47.2 | 3.0 | 9 | 61 | 0.41 | 2.2 | 1.9 |
| 033 | 09 | 130946.54 | 8°50.81 | 83°06.00 | 22.6 | 3.1 | 14 | 65 | 0.28 | 1.0 | 0.9 |
| 034 | 09 | 214658.52 | 9°33.64 | 83°57.70 | 1.7 | 2.4 | 4 | 21 | 0.08 | 0.3 | 0.4 |
| 035 | 09 | 223401.72 | 9°35.71 | 84°06.40 | 21.0 | 2.5 | 6 | 20 | 0.10 | 0.9 | 0.6 |
| 036 | 10 | 111256.70 | 9°25.33 | 82°60.00 | 16.0 | 3.0 | 11 | 85 | 0.33 | 1.6 | 1.0 |
| 037 | 10 | 123446.98 | 9°25.97 | 82°58.60 | 16.1 | 3.0 | 11 | 62 | 0.28 | 1.0 | 0.7 |
| 038 | 10 | 192352.43 | 9°51.38 | 84°14.00 | 10.9 | 2.7 | 8 | 2 | 0.20 | 1.0 | 1.5 |
| 039 | 10 | 220236.35 | 9°31.66 | 83°39.80 | 11.0 | 2.6 | 8 | 11 | 0.24 | 1.5 | 1.1 |
| 040 | 11 | 082030.38 | 10°38.48 | 85°46.30 | 174.0 | 3.4 | 7 | 157 | 0.18 | 5.1 | 4.8 |
| 041 | 11 | 090210.13 | 9°43.59 | 82°57.90 | 27.0 | 3.1 | 11 | 89 | 0.35 | 3.4 | 2.7 |
| 042 | 11 | 151006.09 | 9°30.42 | 83°42.60 | 11.2 | 4.0 | 11 | 37 | 0.31 | 1.2 | 1.1* |
| 043 | 11 | 152948.91 | 9°31.56 | 83°42.80 | 15.0 | 3.9 | 13 | 35 | 0.39 | 0.9 | 1.1 |
| 044 | 11 | 153953.92 | 9°34.08 | 83°41.50 | 12.5 | 2.6 | 8 | 31 | 0.24 | 1.5 | 1.4 |
| 045 | 11 | 163148.78 | 9°31.89 | 83°39.90 | 6.4 | 2.8 | 11 | 11 | 0.29 | 1.0 | 0.6 |

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| DICIEMBRE 1991 | | | | | | | | | | | |
|----------------|-----|-----------|---------|----------|-------|-----|----|-----|------|-----|-----|
| No | DIA | T. ORIG. | LATITUD | LONGITUD | DEPTH | MAG | No | DM | RMS | ERH | ERZ |
| 046 | 11 | 185957.26 | 9°38.84 | 83°45.20 | 26.3 | 2.7 | 9 | 21 | 0.35 | 1.9 | 2.6 |
| 047 | 11 | 204404.38 | 9°24.01 | 83°42.30 | 6.0 | 2.7 | 10 | 6 | 0.32 | 0.8 | 1.3 |
| 048 | 11 | 213738.50 | 9°15.48 | 84°10.20 | 34.7 | 2.9 | 11 | 56 | 0.25 | 1.3 | 1.4 |
| 049 | 11 | 222940.41 | 9°44.65 | 84°00.80 | 5.7 | 2.7 | 7 | 1 | 0.24 | 0.8 | 0.9 |
| 050 | 12 | 005545.44 | 9°35.28 | 83°46.60 | 2.4 | 2.3 | 5 | 4 | 0.21 | 2.5 | 0.4 |
| 051 | 12 | 011034.88 | 9°32.55 | 83°38.10 | 5.5 | 2.7 | 10 | 14 | 0.35 | 1.2 | 0.9 |
| 052 | 12 | 103236.47 | 9°28.32 | 84°51.10 | 15.7 | 3.0 | 8 | 73 | 0.38 | 8.7 | 4.2 |
| 053 | 12 | 115523.99 | 9°29.00 | 83°00.60 | 17.3 | 2.8 | 7 | 83 | 0.45 | 5.9 | 3.9 |
| 054 | 12 | 121735.74 | 9°22.86 | 82°50.10 | 16.2 | 2.9 | 7 | 88 | 0.22 | 3.9 | 2.8 |
| 055 | 12 | 133511.55 | 9°48.85 | 83°53.00 | 7.1 | 2.0 | 7 | 8 | 0.23 | 0.4 | 0.6 |
| 056 | 12 | 145951.42 | 9°37.52 | 82°54.40 | 16.1 | 3.0 | 9 | 93 | 0.37 | 4.6 | 3.1 |
| 057 | 13 | 161922.26 | 9°31.09 | 85°15.90 | 27.5 | 3.1 | 10 | 78 | 0.26 | 1.5 | 2.8 |
| 058 | 13 | 172951.70 | 9°11.60 | 83°55.20 | 33.3 | 2.8 | 10 | 37 | 0.22 | 1.3 | 1.7 |
| 059 | 13 | 202819.63 | 9°50.87 | 83°26.40 | 9.6 | 2.7 | 13 | 37 | 0.34 | 0.8 | 1.7 |
| 060 | 15 | 031133.94 | 9°49.74 | 84°23.50 | 7.0 | 3.0 | 12 | 24 | 0.40 | 1.0 | 1.6 |
| 061 | 15 | 031938.79 | 9°51.86 | 84°24.00 | 17.3 | 2.5 | 8 | 10 | 0.39 | 3.0 | 3.2 |
| 062 | 15 | 035036.16 | 9°32.80 | 84°07.40 | 39.6 | 2.5 | 10 | 14 | 0.30 | 1.2 | 1.3 |
| 063 | 15 | 044138.02 | 9°14.19 | 83°53.60 | 30.0 | 2.7 | 10 | 37 | 0.11 | 0.5 | 0.5 |
| 064 | 15 | 051741.52 | 9°39.72 | 83°45.30 | 3.7 | 2.5 | 7 | 12 | 0.33 | 1.7 | 0.8 |
| 065 | 15 | 194220.37 | 9°48.53 | 83°19.30 | 7.0 | 2.8 | 5 | 31 | 0.09 | 0.7 | 1.6 |
| 066 | 16 | 021246.54 | 9°30.60 | 83°40.20 | 17.9 | 2.3 | 10 | 11 | 0.28 | 1.5 | 1.0 |
| 067 | 16 | 070812.60 | 9°31.17 | 83°39.20 | 17.7 | 2.4 | 7 | 12 | 0.11 | 0.6 | 0.5 |
| 068 | 16 | 115717.72 | 9°44.25 | 84°02.00 | 7.1 | 2.1 | 16 | 34 | 0.08 | 0.3 | 0.6 |
| 069 | 16 | 205351.20 | 9°39.03 | 82°59.80 | 16.1 | 3.0 | 10 | 84 | 0.18 | 1.5 | 1.3 |
| 070 | 17 | 071003.43 | 9°49.25 | 82°56.10 | 163.0 | 3.1 | 6 | 92 | 0.26 | 3.1 | 7.3 |
| 071 | 17 | 110255.30 | 9°28.27 | 82°58.40 | 16.1 | 2.8 | 6 | 87 | 0.30 | 6.1 | 3.6 |
| 072 | 17 | 153915.01 | 9°45.49 | 83°53.00 | 7.1 | 2.1 | 7 | 13 | 0.25 | 0.6 | 0.6 |
| 073 | 17 | 174157.58 | 9°48.31 | 83°20.40 | 12.4 | 3.0 | 12 | 33 | 0.23 | 0.6 | 0.9 |
| 074 | 17 | 214226.70 | 9°36.28 | 83°36.00 | 3.6 | 2.8 | 5 | 18 | 0.05 | 0.7 | 0.3 |
| 075 | 18 | 063252.34 | 9°49.87 | 83°20.50 | 7.0 | 2.7 | 9 | 56 | 0.26 | 0.9 | 1.4 |
| 076 | 18 | 080544.59 | 9°44.86 | 83°52.50 | 7.1 | 2.5 | 9 | 14 | 0.38 | 0.9 | 0.8 |
| 077 | 18 | 080937.50 | 9°54.50 | 85°52.10 | 35.5 | 3.2 | 7 | 35 | 0.29 | 2.9 | 5.2 |
| 078 | 18 | 144656.88 | 9°24.45 | 84°34.40 | 7.1 | 3.0 | 6 | 90 | 0.35 | 6.7 | 6.5 |
| 079 | 18 | 210258.21 | 9°58.12 | 83°23.60 | 8.8 | 2.8 | 16 | 41 | 0.16 | 0.7 | 1.2 |
| 080 | 19 | 015356.25 | 9°78.63 | 83°13.90 | 20.2 | 2.9 | 11 | 93 | 0.38 | 1.2 | 1.9 |
| 081 | 19 | 044150.34 | 9°47.85 | 83°19.30 | 11.2 | 3.1 | 13 | 70 | 0.28 | 0.7 | 1.2 |
| 082 | 19 | 045325.21 | 9°23.13 | 83°56.00 | 19.8 | 3.1 | 11 | 268 | 0.38 | 1.2 | 1.4 |
| 083 | 19 | 051801.13 | 9°48.35 | 83°18.70 | 7.8 | 3.1 | 10 | 66 | 0.26 | 0.8 | 1.2 |
| 084 | 19 | 063424.93 | 9°34.83 | 83°33.90 | 11.1 | 3.1 | 13 | 76 | 0.29 | 0.5 | 0.8 |
| 085 | 19 | 141430.43 | 9°46.25 | 84°27.30 | 42.1 | 3.3 | 7 | 48 | 0.14 | 5.4 | 1.6 |
| 086 | 19 | 155816.37 | 9°46.83 | 83°04.00 | 29.3 | 3.3 | 12 | 78 | 0.41 | 2.3 | 3.9 |
| 087 | 19 | 161228.28 | 9°33.09 | 83°36.20 | 16.4 | 2.9 | 11 | 37 | 0.33 | 0.6 | 0.9 |
| 088 | 19 | 211521.53 | 9°37.70 | 83°39.00 | 12.8 | 2.7 | 7 | 12 | 0.24 | 2.2 | 1.0 |
| 089 | 20 | 173648.98 | 9°35.70 | 83°32.90 | 12.9 | 4.0 | 13 | 13 | 0.29 | 0.8 | 1.1 |
| 090 | 20 | 181041.72 | 9°36.44 | 83°33.60 | 9.6 | 4.5 | 11 | 22 | 0.45 | 1.3 | 1.9 |

DICIEMBRE 1991

| No | DIA | T. ORIG. | LATITUD | LONGITUD | DEPTH | MAG | No | DM | RMS | ERH | ERZ |
|-----|-----|-----------|---------|----------|-------|-----|----|-----|------|-----|------|
| 091 | 20 | 181434.09 | 9°56.42 | 83°12.90 | 105.7 | 3.3 | 5 | 62 | 0.21 | 2.6 | 2.2 |
| 092 | 20 | 182429.66 | 9°34.80 | 83°35.10 | 13.9 | 3.0 | 10 | 21 | 0.16 | 0.5 | 0.4 |
| 093 | 20 | 183351.74 | 9°36.74 | 83°33.40 | 12.6 | 3.0 | 12 | 23 | 0.48 | 1.0 | 1.5 |
| 094 | 20 | 184517.84 | 9°35.30 | 83°34.80 | 13.3 | 3.1 | 12 | 20 | 0.48 | 1.2 | 1.4 |
| 095 | 20 | 193312.77 | 9°36.84 | 83°32.50 | 10.0 | 3.1 | 4 | 25 | 0.05 | 0.1 | 0.1 |
| 096 | 20 | 193525.80 | 9°39.94 | 83°34.90 | 1.6 | 2.9 | 8 | 23 | 0.31 | 1.2 | 1.8 |
| 097 | 20 | 193911.88 | 9°33.57 | 83°34.80 | 14.6 | 3.1 | 9 | 20 | 0.21 | 1.2 | 0.8 |
| 098 | 20 | 195111.27 | 9°36.91 | 83°3.408 | 12.6 | 3.0 | 9 | 25 | 0.35 | 2.2 | 1.3 |
| 099 | 20 | 195350.43 | 9°36.03 | 83°32.30 | 12.6 | 3.1 | 11 | 37 | 0.39 | 1.8 | 1.7 |
| 100 | 20 | 203832.99 | 9°36.22 | 83°34.40 | 11.9 | 3.1 | 9 | 21 | 0.39 | 1.3 | 1.7 |
| 101 | 20 | 205433.99 | 9°34.98 | 83°32.90 | 13.3 | 3.0 | 12 | 23 | 0.31 | 0.7 | 0.9 |
| 102 | 20 | 213503.42 | 9°51.17 | 84°02.50 | 60.1 | 2.8 | 9 | 13 | 0.33 | 1.7 | 2.8 |
| 103 | 21 | 022739.42 | 9°34.31 | 83°53.40 | 12.2 | 3.0 | 11 | 22 | 0.28 | 0.9 | 1.0 |
| 104 | 21 | 103312.88 | 9°36.62 | 83°33.20 | 9.6 | 3.6 | 15 | 23 | 0.46 | 0.9 | 1.3 |
| 105 | 21 | 220219.28 | 8°48.29 | 83°06.90 | 16.1 | 4.4 | 10 | 106 | 0.23 | 3.6 | 7.1 |
| 106 | 22 | 050353.84 | 9°35.50 | 84°01.30 | 4.2 | 2.8 | 6 | 17 | 0.07 | 0.4 | 0.2 |
| 107 | 22 | 075938.50 | 9°47.81 | 83°18.50 | 4.9 | 3.0 | 5 | 131 | 0.13 | 1.1 | 1.5 |
| 108 | 22 | 084159.85 | 9°48.26 | 83°02.10 | 10.9 | 3.6 | 10 | 181 | 0.34 | 3.1 | 2.6 |
| 109 | 22 | 103654.42 | 9°58.58 | 82°55.50 | 16.1 | 3.1 | 10 | 95 | 0.41 | 3.1 | 2.3 |
| 110 | 22 | 143322.14 | 9°43.25 | 83°59.20 | 3.3 | 2.7 | 15 | 3 | 0.09 | 0.3 | 0.6 |
| 111 | 30 | 103306.48 | 9°35.72 | 84°01.14 | 5.9 | 3.9 | 9 | 16 | 0.17 | 0.5 | 0.6* |

PARTE B

LECTURAS DE LOS TIEMPOS DE ARRIBO DE LOS SISMOS
REGIONALES, TELESISMOS Y EVENTOS LOCALES CON $M \geq 4$.

DICIEMBRE 1991

| EST | DIA | TIEMPO | FASE | COMP. | POL. |
|------|-----|-----------|------|-------|------|
| SJS | 10 | 151011.80 | EP | Z | C |
| | | 24.46 | IS | | |
| BUS | 10 | 151006.26 | IP | Z | D |
| URS | 10 | 151010.75 | IP | Z | C |
| LCR2 | 10 | 151011.56 | IP | Z | C |
| QCR | 10 | 151013.70 | IP | Z | D |
| ICR | 10 | 151013.85 | IP | Z | C |
| PRS | 10 | 151017.15 | IP | Z | C |
| | | 18.64 | IS | | |
| LIO | 10 | 151019.33 | IP | Z | D |
| | | 22.96 | IS | | |
| CGA | 10 | 151020.93 | EP | Z | C |
| | | 28.48 | IS | | |
| ACR | 10 | 151022.33 | EP | Z | D |
| | | 36.51 | IS | | |
| VCR | 10 | 151039.15 | EP | Z | D |
| | | 67.16 | IS | | |

16Km al N de San Isidro de Pérez Zeledón; Costa Rica Intensidad III
en Pérez Zeledón, Md= 4.0

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 12 | 131705.60 | EP | Z | - |
| ICR | 12 | 131707.00 | IP | Z | |
| LCR2 | 12 | 131705.50 | IP | Z | |
| VCR | 12 | 131640.10 | IP | Z | |

Regional

| | | | | | |
|-----|----|-----------|----|---|--|
| SJS | 15 | 190200.01 | EP | Z | |
| URS | 15 | 190210.50 | EP | Z | |

Cerca de las costas de Perú; Mb= 5.6

| | | | | | |
|-----|----|-----------|----|---|--|
| SJS | 19 | 141437.00 | EP | Z | |
| VCR | 19 | 141427.00 | EP | Z | |
| ICR | 19 | 141443.00 | EP | Z | |

Regional

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 20 | 173659.15 | EP | Z | C |
| BUS | 20 | 173651.96 | IP | Z | D |
| URS | 20 | 173653.78 | IP | Z | C |
| | | 56.44 | IS | | |
| LCR2 | 20 | 173656.47 | EP | Z | C |
| ICR | 20 | 173656.64 | EP | Z | C |
| LIO | 20 | 173659.35 | EP | Z | C |
| QCR | 20 | 173659.80 | IP | Z | D |
| PRS | 20 | 173702.14 | IP | Z | C |
| CGA | 20 | 173705.82 | IP | Z | |

DICIEMBRE 1991

| EST | DIA | TIEMPO | FASE | COMP. | POL. |
|-----|-----|-----------|------|-------|------|
| ACR | 20 | 173705.94 | IP | Z | C |
| AR6 | 20 | 173607.17 | EP | Z | C |
| | | 76.34 | IS | | |
| VCR | 20 | 173723.98 | EP | Z | C |
| | | 52.18 | IS | | |

20Km al NE de San Isidro de Pérez Zeledón; Costa Rica Intensidades III-IV en San Isidro, Md= 4.0

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 20 | 181053.25 | EP | Z | C |
| BUS | 20 | 181046.00 | IP | Z | D |
| URS | 20 | 181047.71 | IP | Z | C |
| LCR2 | 20 | 181050.45 | EP | Z | C |
| ICR | 20 | 181050.83 | EP | Z | D |
| LIO | 20 | 181053.33 | EP | Z | C |
| QCR | 20 | 181054.06 | IP | Z | D |
| PRS | 20 | 181056.26 | IP | Z | C |
| CGA | 20 | 181100.24 | IP | Z | D |
| ACR | 20 | 181059.70 | EP | Z | C |
| | | 65.27 | IS | | |
| AR6 | 20 | 181110.86 | IP | Z | C |
| VCR | 20 | 181118.15 | IP | Z | C |

30Km al NE de San Isidro de Pérez Zeledón; Costa Rica Intensidades IV-V Turrialba III San José, Md= 4.5

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 21 | 220227.90 | EP | Z | C |
| | | 72.36 | IS | | |
| BUS | 21 | 220236.70 | IP | Z | D |
| QCR | 21 | 220239.45 | EP | Z | D |
| LIO | 21 | 220240.10 | EP | Z | D |
| URS | 21 | 220240.41 | IP | Z | C |
| LCR2 | 21 | 220241.12 | EP | Z | D |
| ICR | 21 | 220243.46 | IP | Z | D |
| PRS | 21 | 220245.84 | EP | Z | C |
| CGA | 21 | 220250.18 | IP | Z | |
| AR6 | 21 | 220259.05 | EP | Z | + |
| VCR | 21 | 220301.20 | EP | Z | D |

10Km al NE de Golfito; Costa Rica Intensidades IV Paso Canoas, Md= 4.4

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 22 | 181219.10 | IP | Z | C |
| ICR | 22 | 181215.00 | EP | Z | |
| PRS | 22 | 181222.50 | IP | Z | C |

Regional

| | | | | | |
|-----|----|-----------|----|---|--|
| SJS | 27 | 041817.50 | EP | Z | |
| ICR | 27 | 041821.00 | EP | Z | |
| VCR | 27 | 041823.00 | EP | Z | |

Al Sur de las Islas Sandwich; Mb= 7.1

PGM ANASIS Ver 2.0

Diseño:

Guillermo Á Avila R

FEC m:01-12-1991

FEC M:31-12-1991

GMT=00h-24h

LAT= 7.50°-11.50°

LON=82.50°-86.50°

PRF= 0.0- 999.9 Km

MAG= 0.0- 9.9

SIMBOLOGIA:

M=3 □ M=4 ◇ M=5 +

M=6 △ M=7 ▽ M=8 ○

STA *

BASE.: RSN1991

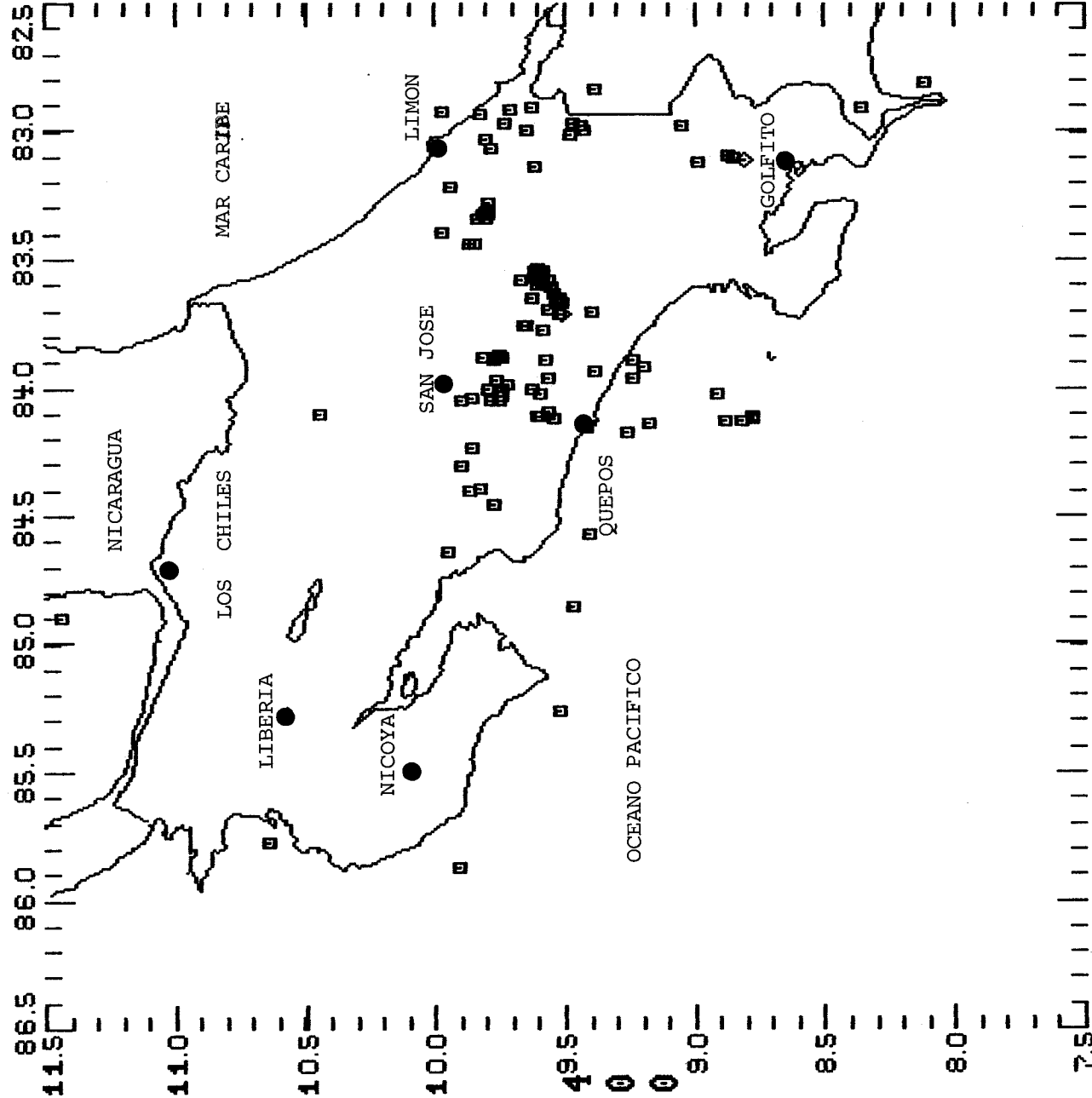
N SIS: 110

M<3.9: 106 4<M<5: 49.5

5<M<6: 0 6<M<7: 0

7<M<8: 0 M>8 : 9.0

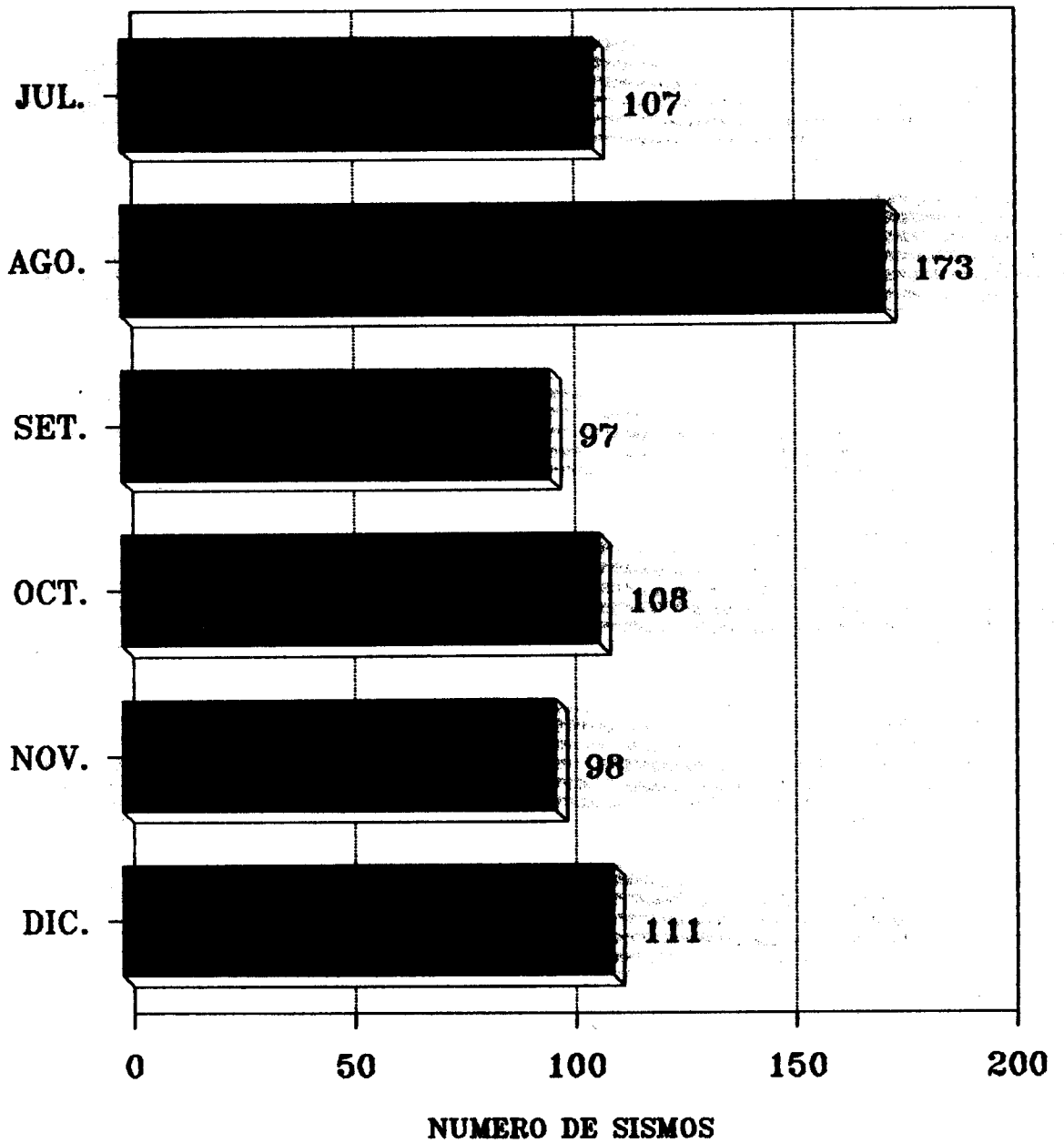
RED SISMOLÓGICA NACIONAL, ICE-UCR
MAPA DE EPICENTROS DE COSTA RICA



RED SISMOLOGICA NACIONAL

RSN: (ICE-UCR)

MESES



RSN

BOLETIN TRIMESTRAL

AÑO XVI Nº 136

PERIODO: AÑO 1991.

CONTENIDO:

A: Parámetros sísmicos de los temblores localizados.

B: Tiempos de arribo de los sismos regionales, telesismos y temblores con MD= > = 4,0 o reportados como sentidos.

ESTACIONES DE LA RED SISMOLOGICA NACIONAL (RSN : ICE-UCR).

| ESTACION | CODIGO | LATITUD | LONGITUD | ELEVACION |
|---------------|--------|-----------|-----------|-----------|
| ADAMS | ACR | 8939.19' | 83910.08' | 500 Mts. |
| BUVIS | BUS | 9933.32' | 83945.50' | 3487 Mts. |
| CHIRIPA | AR6 | 10926.75' | 84954.59' | 1010 Mts. |
| JICARAL | JCR | 9950.99' | 85906.71' | 575 Mts. |
| LA LUCHA 2 | LCR2 | 9944.53' | 84900.18' | 1730 Mts. |
| LIMON | LIO | 10900.30' | 83902.10' | 62 Mts. |
| QUEPOS | QCR | 9925.67' | 84909.92' | 45 Mts. |
| SAN RAMON | SRA | 10904.95' | 84926.89' | 1160 Mts. |
| U DE COSTA R. | UCR | 9956.35' | 84903.25' | 1196 Mts. |
| VISTA DE MAR | VCR | 10907.59' | 85937.87' | 960 Mts. |
| VOLCAN IRAZU | ICR | 9958.80' | 83949.87' | 3302 Mts. |
| VOLCAN POAS 2 | VPS2 | 10911.41' | 84914.12' | 2570 Mts. |
| FORTUNA | FDR | 10928.30' | 84940.20' | 400 Mts. |
| PURISCAL | PRS | 9951.03' | 84918.67' | 1145 Mts. |
| URASCA | URS | 9950.10' | 83946.69' | 1500 Mts. |

EXPLICACION DE LOS DATOS

El presente boletín sismológico trimestral contiene la siguiente información:

PARTE A: Eventos locales y parámetros de los sismos **localizados** mensualmente por las estaciones de la **Red Sismológica Nacional (RSN: ICE-UCR)**.

PARTE B: La **lectura** de los tiempos de arribo para los eventos locales registrados por la RSN con $\geq 4,0$, sismos regionales y telesismos en las estaciones **ACR, BUS, AR6, LCR2, LIO, QCR, SRA, VCR, ICR, FOR JCR, VPS2, PRS y URS** ya que estas son actualmente las que tienen sus respectivos códigos reconocidos internacionalmente.

- 1- EST. : Código de la estación que registro el evento.
- 2-DIA : Todas las fechas estan reportadas en el tiempo meridiano de Greenwich (GMT).
- 3-TIEMPO : Tiempo de origen (**PARTE A**) y tiempo de arribo de las fases (**PARTE B**), estan dados en horas, minutos, segundos y decimas de segundo (GMT).
- 4-FASE : Una "i" o "e" precede el nombre de la fase para indicar el carácter del arribo: "i" (impetu), indica que el primer arribo fue impulsivo y la dirección del primer movimiento es evidente, "e" (emersio), indica un comienzo gradual en el cual la dirección del movimiento es dudosa.
- 5-COMP. : Designa la componente (N, E, o Z), de la estación sismográfica donde el tiempo de arribo fue medido.
- 6-POL. : Polaridad, una C, o D, representan un movimiento de compresión o dilatación, respectivamente. Indicada especialmente para las fases designadas con impetu (i).
- 7-PER : Si se trata de la estación LCR2, entonces se anota si el dato es de período corto (PC), período medio (PM), o período largo (PL).
- 8-MAG(MD) : La magnitud reportada para los eventos locales, esta basada en la duración de la señal sísmica en la estación SJS, $MD = -1.21 + 2.38 \log (dur) + 0.0012$ (dist. hipoc.).
- 9-PROF. : Indica la profundidad en kilómetros a que se produjo el evento.
- 10-RMS : Indica el error medio estándar, que da como resultado de la localización por computadora, a través del programa HYP071PC, (versión 1: 1985).

11-ERH-ERZ: Datos de errores de la localización horizontal (H) y vertical (Z), en kilómetros.

12- * :** Datos omitidos por la computadora o localización manual.

13-COMEN-

TARIOS : Indica si el epicentro es de sismos locales (con magnitud $\geq 4,0$). Para telesismos y/o regionales se utiliza el reporte del NEIC (National Earthquake Information Center). Los regionales se refieren a sismos fuera de las zonas limítrofes de Costa Rica.

Nota : La sismicidad en el país es mayor a lo reportado en este boletín. Los eventos localizados que se reportan son los que se registran en la estación (SJS), que es la que está calibrada para el cálculo de la magnitud en base a la duración (ML).

Este boletín trimestral corresponde a los meses de **ABRIL, MAYO Y JUNIO**, (boletines # 136, 137 y 138).

Editado por: **Carlos A. Redondo Chavaria.**
Escuela Centroamericana de Geología (UCR).
SECCION DE SISMOLOGIA, VULCANOLOGIA Y
EXPLORACION GEOFISICA.
FAX # 25-7801 TEL. # 25-7801

PARAMETROS DE LOS EVENTOS LOCALIZADOS
PARTE A
ABRIL 1991

| No | DIA | T. ORIGIN | LAT.N | LONG.W | DEPTH | MAG | NO | DM | GAP | RMS | ERH | ERZ |
|------|-----|-----------|----------|----------|-------|-----|------|-----|-----|------|-----|------|
| 001 | 02 | 094209.25 | 9052.05 | 84017.32 | 5.00 | 3.0 | 7 | 27 | 159 | 0.29 | 2.4 | 4.2 |
| 002 | 03 | 075218.88 | 9056.15 | 84056.91 | 16.03 | 3.8 | 13 | 20 | 148 | 0.21 | 1.3 | 3.2 |
| 003 | 03 | 082150.62 | 9045.91 | 84005.69 | 8.40 | 2.3 | 4 | 10 | 269 | 0.40 | 0.8 | 0.5 |
| 004 | 04 | 223517.81 | 8032.17 | 83010.18 | 23.83 | 4.4 | 6 | 13 | 322 | 0.20 | 5.7 | 0.9 |
| 005 | 05 | 002044.29 | 9020.32 | 84048.43 | 29.80 | 3.4 | 12 | 66 | 201 | 0.35 | 2.4 | 3.4 |
| 006 | 05 | 064258.50 | 10044.47 | 85031.65 | 69.41 | 3.9 | 3 | 69 | 292 | 0.18 | *** | *** |
| *007 | 05 | 082921.37 | 10000.24 | 84023.86 | 4.81 | 3.6 | 8 | 10 | 133 | 0.18 | 2.6 | 2.7 |
| 008 | 05 | 092712.40 | 9046.91 | 84013.14 | 39.40 | 3.4 | 8 | 24 | 103 | 0.54 | 6.3 | 5.4 |
| 009 | 05 | 195705.36 | 9053.81 | 84021.68 | 15.50 | 3.6 | 12 | 7 | 161 | 0.33 | 2.4 | 2.9 |
| 010 | 06 | 140855.44 | 9052.73 | 84021.27 | 22.59 | 3.2 | 13 | 25 | 110 | 0.31 | 2.2 | 4.4 |
| 011 | 07 | 060424.82 | 9051.35 | 84021.07 | 67.12 | 3.9 | 12 | 4 | 146 | 0.49 | 9.6 | 6.3 |
| >012 | 07 | 210203.66 | 9029.18 | 83040.05 | 14.50 | 3.5 | 13 | 13 | 114 | 0.46 | 2.4 | 5.7 |
| 013 | 08 | 061222.24 | 9050.84 | 84016.16 | 3.90 | 3.5 | 9 | 5 | 152 | 0.27 | 2.2 | 1.6* |
| 014 | 08 | 142722.50 | 9049.64 | 84007.87 | 13.42 | 3.2 | 8 | 15 | 117 | 0.34 | 2.9 | 5.3* |
| 015 | 08 | 160603.71 | 10015.70 | 84003.26 | 35.27 | 3.1 | 7 | 36 | 253 | 0.40 | 9.7 | 4.3 |
| 016 | 08 | 161357.99 | 10007.05 | 84007.77 | 25.00 | 3.9 | 9 | 21 | 225 | 0.28 | 4.2 | 3.9* |
| 017 | 09 | 090940.29 | 10047.98 | 85037.59 | 22.99 | 3.1 | 4 | 74 | 299 | 0.17 | *** | *** |
| 018 | 09 | 130908.92 | 9033.46 | 84006.72 | 44.01 | 3.1 | 8 | 15 | 125 | 0.12 | 1.0 | 1.2 |
| 019 | 10 | 231915.58 | 10058.83 | 85038.99 | 25.00 | 3.9 | 5 | 94 | 308 | 0.33 | 0.5 | 0.3 |
| 020 | 11 | 002433.78 | 9051.02 | 84009.80 | 69.17 | 3.3 | 11 | 15 | 101 | 0.26 | 2.6 | 3.6 |
| 021 | 12 | 033209.21 | 9053.08 | 84016.70 | 6.85 | 3.1 | 7 | 7 | 117 | 0.47 | 3.5 | 2.6 |
| 022 | 14 | 125132.42 | 9052.49 | 84021.48 | 10.22 | 3.9 | 14 | 6 | 150 | 0.44 | 2.0 | 3.8* |
| 023 | 14 | 131157.25 | 9051.35 | 84021.13 | 10.46 | 3.5 | 11 | 4 | 113 | 0.31 | 1.9 | 3.1 |
| 024 | 14 | 192807.32 | 8057.32 | 82055.05 | 20.00 | 5.1 | 11 | 114 | 300 | 0.34 | 3.6 | 2.3 |
| 025 | 15 | 210235.46 | 9029.43 | 84039.19 | 33.84 | 2.9 | 10 | 55 | 217 | 0.29 | 2.9 | 2.7 |
| *026 | 16 | 221818.69 | 9047.53 | 84021.86 | 14.62 | 3.3 | 13 | 2 | 111 | 0.35 | 1.5 | 2.8* |
| 027 | 17 | 151543.99 | 9051.35 | 84021.63 | 11.84 | 3.8 | 9 | 5 | 126 | 0.33 | 2.3 | 3.3* |
| 028 | 17 | 151843.70 | 9051.81 | 84022.00 | 12.97 | 3.2 | 7 | 6 | 231 | 0.18 | 3.7 | 2.9 |
| 029 | 17 | 162640.94 | 9051.35 | 84021.76 | 15.25 | 3.4 | 9 | 6 | 153 | 0.17 | 1.5 | 2.0* |
| 030 | 18 | 200752.29 | 9048.64 | 83058.21 | 75.00 | 3.7 | 13 | 8 | 72 | 0.29 | 3.6 | 3.0* |
| 031 | 19 | 154800.15 | 9038.54 | 85006.81 | 27.10 | 4.5 | 9 | 23 | 210 | 0.27 | 4.2 | 2.5 |
| 032 | 19 | 165258.29 | 9036.08 | 85007.61 | 29.10 | 4.6 | 9 | 80 | 216 | 0.24 | 3.8 | 2.1 |
| 033 | 19 | 220758.89 | 9050.85 | 83049.97 | 47.13 | 4.1 | 4 | 6 | 135 | 0.49 | *** | *** |
| 034 | 20 | 022621.43 | 10001.73 | 84010.57 | 25.00 | 3.4 | 8 | 17 | 177 | 0.37 | 3.8 | 4.4 |
| 035 | 20 | 142730.38 | 8046.97 | 83014.74 | 25.00 | 3.4 | 7 | 124 | 331 | 0.11 | 2.8 | 1.1 |
| 036 | 22 | 143353.06 | 9048.55 | 84019.98 | 6.65 | 3.0 | 9 | 5 | 181 | 0.26 | 1.9 | 1.2 |
| 037 | 22 | 204415.17 | 9046.88 | 84014.75 | 14.65 | 3.8 | 10 | 10 | 107 | 0.24 | 1.4 | 1.8* |
| 038 | 22 | 215652.25 | 9036.60 | 83010.20 | 7.44 | 6.6 | 11 | 42 | 169 | 0.18 | 1.4 | 2.1* |
| 039 | 22 | 220600.00 | 9042.06 | 83044.14 | 10.00 | 5.6 | (**) | ▽ | * | | | |
| 040 | 22 | 220712.80 | 9046.26 | 83038.38 | 10.00 | 5.5 | (**) | ▽ | * | | | |
| 041 | 22 | 221925.03 | 9048.34 | 83042.16 | 10.00 | 5.4 | (**) | ▽ | * | | | |
| 042 | 22 | 225135.73 | 9043.14 | 83030.34 | 10.00 | 5.1 | (**) | ▽ | * | | | |
| >043 | 22 | 231324.12 | 9025.20 | 83037.20 | 10.00 | 4.7 | (**) | ▽ | * | | | |
| *044 | 23 | 011300.00 | 9026.04 | 82000.57 | 10.00 | 4.5 | (**) | ▽ | * | | | |
| *045 | 23 | 053700.00 | 9029.46 | 82006.10 | 10.00 | 5.1 | (**) | ▽ | * | | | |

ABRIL 1991

| No | DIA | T. ORIGIN | LAT.N | LONG.W | DEPTH | MAG | NO | DM | GAP | RMS | ERH | ERZ |
|------|-----|-----------|----------|----------|-------|-----|------|----|-----|------|-----|-----------------|
| 046 | 23 | 060221.45 | 9046.16 | 83045.30 | 10.00 | 4.6 | (**) | ∇ | * | | | |
| 047 | 23 | 063136.51 | 9045.95 | 83023.20 | 13.53 | 3.5 | 10 | 40 | 186 | 0.41 | 4.1 | 4.2* |
| 048 | 23 | 074408.94 | 9047.69 | 83024.06 | 10.10 | 4.4 | 9 | 40 | 176 | 0.14 | 1.2 | 2.1①∇* |
| 049 | 23 | 082201.89 | 9051.40 | 83024.43 | 5.87 | 4.5 | 10 | 37 | 161 | 0.33 | 2.8 | 4.9②∇* |
| 050 | 23 | 083238.75 | 9043.59 | 83014.12 | 12.83 | 4.9 | 6 | 32 | 147 | 0.20 | 2.4 | 4.3③∇* BUTIC |
| 051 | 23 | 085612.77 | 9043.54 | 83016.87 | 47.25 | 3.8 | 4 | 35 | 214 | 0.01 | *** | **** |
| 052 | 23 | 090236.58 | 9045.76 | 83022.92 | 11.22 | 3.6 | 11 | 40 | 188 | 0.35 | 2.4 | 3.1* |
| 053 | 23 | 090938.84 | 9042.65 | 83012.37 | 9.71 | 4.1 | 6 | 32 | 231 | 0.17 | 1.9 | 1.8* |
| 054 | 23 | 092604.55 | 9036.67 | 83042.67 | 11.78 | 4.4 | 8 | 8 | 161 | 0.24 | 1.9 | 2.2 x |
| 055 | 23 | 105113.25 | 9050.39 | 83023.14 | 5.89 | 3.6 | 7 | 36 | 168 | 0.24 | 2.6 | 2.8* |
| 056 | 23 | 113512.26 | 10002.52 | 83023.10 | 10.00 | 4.3 | (**) | * | | | | * |
| 057 | 23 | 130152.76 | 9037.88 | 83016.95 | 7.57 | 3.9 | 9 | 44 | 228 | 0.43 | 4.8 | 8.1 y |
| 058 | 23 | 140814.39 | 9047.93 | 83021.92 | 33.45 | 3.7 | 10 | 36 | 182 | 0.37 | 3.5 | 3.1 |
| 059 | 23 | 185644.72 | 9045.89 | 83016.34 | 22.47 | 4.9 | 11 | 31 | 135 | 0.33 | 2.4 | 2.8④∇ |
| 060 | 23 | 191614.42 | 9055.96 | 83023.10 | 9.22 | 4.1 | 11 | 37 | 148 | 0.21 | 1.4 | 2.4* |
| 061 | 23 | 195840.41 | 9053.36 | 83021.13 | 10.59 | 4.1 | 12 | 30 | 137 | 0.35 | 2.3 | 3.0* |
| 062 | 23 | 201752.72 | 9028.90 | 82047.06 | 20.00 | 3.8 | 11 | 65 | 236 | 0.41 | 4.2 | 6.3* |
| 063 | 23 | 202524.52 | 9028.42 | 83003.76 | 16.50 | 4.0 | 11 | 56 | 191 | 0.35 | 2.9 | 4.2* |
| 064 | 23 | 212414.01 | 9049.78 | 83024.76 | 11.62 | 4.3 | 11 | 39 | 135 | 0.35 | 2.7 | 2.8* |
| 065 | 23 | 215406.37 | 9056.94 | 83025.76 | 22.51 | 4.0 | 9 | 44 | 254 | 0.24 | 3.0 | 1.9* |
| *066 | 23 | 220332.67 | 9045.56 | 83019.99 | 15.00 | 3.8 | 8 | 36 | 124 | 0.20 | 2.1 | 3.1* |
| 067 | 23 | 220459.10 | 9054.94 | 83026.25 | 11.93 | 4.0 | 10 | 38 | 160 | 0.42 | 3.3 | 6.9* |
| 068 | 23 | 220723.72 | 9054.17 | 83026.76 | 4.39 | 4.5 | 11 | 37 | 164 | 0.44 | 3.5 | 7.3⑤∇* |
| *069 | 23 | 233144.59 | 9036.09 | 83032.05 | 12.93 | 3.9 | 12 | 25 | 197 | 0.45 | 3.7 | 3.5* |
| 070 | 24 | 024500.35 | 9046.42 | 83013.73 | 3.07 | 4.4 | 8 | 27 | 144 | 0.30 | 2.5 | 4.5* |
| 071 | 24 | 044148.07 | 9005.28 | 82055.56 | 10.00 | 4.5 | (**) | | | | | ∇* |
| 072 | 24 | 113532.07 | 9043.25 | 83057.86 | 22.26 | 3.9 | 8 | 26 | 102 | 0.22 | 2.1 | 4.5* |
| 073 | 24 | 115203.86 | 9040.84 | 84000.28 | 7.08 | 3.9 | 9 | 7 | 159 | 0.20 | 1.5 | 0.9* |
| 074 | 24 | 133226.41 | 9046.49 | 83014.08 | 8.44 | 4.1 | 8 | 28 | 142 | 0.18 | 1.4 | 3.6* |
| 075 | 24 | 142152.60 | 9052.21 | 83013.55 | 6.28 | 4.6 | 10 | 19 | 127 | 0.20 | 2.5 | 3.7⑥∇* |
| 076 | 24 | 151829.98 | 9055.96 | 83017.28 | 27.81 | 4.2 | 9 | 22 | 161 | 0.41 | 4.7 | 6.3* |
| 077 | 24 | 153959.23 | 9050.17 | 83019.05 | 13.54 | 4.1 | 10 | 29 | 132 | 0.41 | 3.3 | 4.2* |
| 078 | 24 | 160008.60 | 9058.01 | 83051.52 | 6.59 | 2.8 | 5 | 3 | 162 | 0.19 | 3.3 | 1.7* |
| 079 | 24 | 160158.01 | 9057.53 | 83051.83 | 4.68 | 2.9 | 4 | 4 | 204 | 0.07 | *** | **** |
| 080 | 24 | 160825.08 | 9023.25 | 82052.00 | 24.04 | 4.3 | 9 | 70 | 223 | 0.23 | 3.0 | 4.0 |
| *081 | 24 | 170141.05 | 9050.57 | 83023.96 | 12.05 | 3.6 | 10 | 37 | 138 | 0.44 | 3.0 | 5.0* |
| *082 | 24 | 173244.23 | 9052.71 | 83040.28 | 33.47 | 4.1 | 9 | 13 | 147 | 0.43 | 5.2 | 5.1* |
| 083 | 24 | 175402.34 | 9044.71 | 83022.51 | 8.37 | 4.9 | 9 | 40 | 119 | 0.12 | 0.9 | 1.9⑦∇* |
| 084 | 24 | 191257.80 | 9026.43 | 83030.97 | 12.79 | 5.5 | 8 | 29 | 186 | 0.33 | 4.8 | 3.9∇* |
| 085 | 24 | 213358.83 | 9043.73 | 83013.55 | 30.00 | 4.4 | 6 | 62 | 338 | 0.17 | 3.2 | 2.5* |
| 086 | 24 | 222658.23 | 9045.14 | 83046.79 | 6.23 | 3.3 | 6 | 9 | 266 | 0.28 | 5.0 | 2.9* |
| *087 | 25 | 003756.38 | 9037.63 | 83035.47 | 23.66 | 4.0 | 10 | 20 | 102 | 0.53 | 2.9 | 4.8* |
| 088 | 25 | 021000.00 | 9026.28 | 83025.30 | 10.00 | 4.6 | (**) | ∇ | | | | * |
| *089 | 25 | 021634.39 | 9031.75 | 83004.66 | 24.05 | 4.9 | 5 | 50 | 188 | 0.10 | 1.7 | 3.1∇* |
| *090 | 25 | 024745.09 | 9050.39 | 83010.94 | 10.28 | 4.8 | 10 | 18 | 147 | 0.32 | 2.1 | 3.0* |

ABRIL 1991

| No | DIA | T. ORIGIN | LAT.N | LONG.W | DEPTH | MAG | NO | DM | GAP | RMS | ERH | ERZ | |
|------|-----|-----------|----------|----------|-------|-----|----|----|-----|------|-----|------|-----|
| 091 | 25 | 032612.85 | 9042.64 | 83058.85 | 7.00 | 3.9 | 9 | 4 | 112 | 0.33 | 2.1 | 1.7 | * |
| 092 | 25 | 033045.10 | 9044.05 | 83058.57 | 6.30 | 3.9 | 9 | 3 | 81 | 0.35 | 2.6 | 1.9 | * |
| 093 | 25 | 053050.65 | 9044.06 | 83059.26 | 7.00 | 3.9 | 9 | 2 | 82 | 0.25 | 1.3 | 1.1 | * |
| 094 | 25 | 060824.81 | 9048.76 | 83057.51 | 7.20 | 2.7 | 7 | 9 | 111 | 0.21 | 1.5 | 1.6 | |
| 095 | 25 | 061415.78 | 9043.62 | 83057.78 | 6.56 | 3.6 | 8 | 5 | 84 | 0.28 | 1.7 | 1.5 | |
| 096 | 25 | 061659.44 | 9043.44 | 83058.85 | 7.00 | 2.6 | 8 | 3 | 84 | 0.38 | 2.8 | 2.1 | |
| 097 | 25 | 062010.80 | 9042.81 | 83058.98 | 7.00 | 2.5 | 8 | 4 | 87 | 0.32 | 2.3 | 1.1 | |
| *098 | 25 | 075528.52 | 9036.38 | 83034.07 | 12.30 | 4.7 | 12 | 22 | 106 | 0.31 | 1.7 | 2.8 | * ▽ |
| 099 | 25 | 133648.26 | 9043.82 | 83048.74 | 4.89 | 3.2 | 7 | 12 | 145 | 0.28 | 1.5 | 1.8 | |
| *100 | 25 | 143204.90 | 9053.26 | 83030.16 | 13.73 | 4.7 | 11 | 31 | 140 | 0.44 | 2.9 | 3.6 | * ▽ |
| 101 | 25 | 145842.74 | 9045.93 | 83058.25 | 6.20 | 2.9 | 6 | 4 | 102 | 0.37 | 3.5 | 2.6 | |
| 102 | 25 | 152819.60 | 10014.48 | 83038.78 | 30.98 | 4.0 | 7 | 45 | 209 | 0.02 | 0.2 | 0.2 | * ▽ |
| *103 | 25 | 155439.16 | 9041.22 | 82055.13 | 33.35 | 4.4 | 10 | 38 | 224 | 0.34 | 2.6 | 2.1 | * ▽ |
| 104 | 25 | 163502.60 | 9031.15 | 83034.02 | 13.04 | 3.8 | 12 | 23 | 139 | 0.29 | 2.2 | 4.8 | |
| *105 | 25 | 165655.64 | 9049.30 | 83042.80 | 6.70 | 3.2 | 13 | 7 | 112 | 0.45 | 1.9 | 2.0 | * |
| *106 | 25 | 182809.52 | 9025.70 | 83009.00 | 36.82 | 3.8 | 10 | 68 | 232 | 0.43 | 4.3 | 2.1 | * |
| 107 | 25 | 183534.39 | 9058.90 | 83041.33 | 5.00 | 3.1 | 5 | 16 | 302 | 0.18 | 4.5 | 1.9 | * |
| 108 | 25 | 185105.15 | 9047.07 | 83049.41 | 10.58 | 3.4 | 4 | 7 | 215 | 0.03 | *** | *** | * |
| *109 | 25 | 195534.71 | 9051.47 | 83028.06 | 9.38 | 4.1 | 11 | 34 | 142 | 0.36 | 2.1 | 4.1 | * |
| 110 | 25 | 195829.30 | 9042.74 | 83057.20 | 7.03 | 2.7 | 10 | 6 | 87 | 0.33 | 1.4 | 1.5 | * |
| 111 | 25 | 202100.92 | 9038.64 | 83042.64 | 4.66 | 4.1 | 7 | 22 | 308 | 0.29 | 3.9 | 2.4 | * |
| 112 | 25 | 210500.08 | 9048.84 | 83057.27 | 6.53 | 3.1 | 10 | 10 | 75 | 0.34 | 1.7 | 1.9 | |
| 113 | 25 | 222311.86 | 9037.22 | 83036.95 | 10.58 | 3.7 | 7 | 30 | 318 | 0.27 | 3.1 | 11.9 | |
| 114 | 26 | 002943.64 | 9048.69 | 83058.36 | 16.41 | 3.1 | 10 | 8 | 73 | 0.41 | 2.1 | 2.9 | |
| 115 | 26 | 031620.16 | 9042.01 | 83052.77 | 4.98 | 2.6 | 8 | 14 | 104 | 0.46 | 2.1 | 2.8 | |
| 116 | 26 | 110048.28 | 9044.38 | 83058.97 | 6.41 | 3.0 | 13 | 2 | 81 | 0.24 | 0.8 | 0.8 | |
| 117 | 26 | 110754.23 | 9041.49 | 83057.80 | 4.88 | 3.4 | 6 | 7 | 105 | 0.36 | 2.7 | 2.4 | |
| 118 | 26 | 131513.56 | 9042.87 | 83058.22 | 12.89 | 2.9 | 14 | 5 | 87 | 0.44 | 1.5 | 2.4 | |
| 119 | 26 | 134158.16 | 9047.70 | 83055.12 | 5.34 | 3.6 | 6 | 11 | 164 | 0.30 | 2.4 | 3.1 | * |
| 120 | 26 | 160622.10 | 9037.08 | 83039.05 | 3.85 | 4.2 | 6 | 28 | 316 | 0.17 | 3.4 | 2.1 | * |
| *121 | 26 | 175305.71 | 9026.13 | 83027.07 | 14.52 | 3.9 | 9 | 36 | 195 | 0.42 | 4.8 | 4.7 | * ▽ |
| *122 | 26 | 180832.44 | 9032.77 | 83007.52 | 12.99 | 4.5 | 12 | 48 | 178 | 0.40 | 2.9 | 4.2 | * ▽ |
| *123 | 26 | 191146.44 | 9050.53 | 83018.62 | 6.60 | 4.0 | 12 | 28 | 123 | 0.43 | 2.7 | 5.5 | * |
| 124 | 26 | 194818.00 | 9021.89 | 84014.18 | 45.37 | 3.1 | 14 | 10 | 307 | 0.01 | 0.4 | 0.9 | * |
| 125 | 26 | 221814.55 | 9044.63 | 83056.66 | 7.16 | 3.3 | 9 | 6 | 79 | 0.37 | 1.9 | 1.8 | |
| 126 | 26 | 221623.40 | 9042.83 | 83051.79 | 5.26 | 3.5 | 9 | 16 | 112 | 0.38 | 1.8 | 2.4 | |
| *127 | 26 | 224928.27 | 9042.30 | 82053.88 | 20.78 | 4.2 | 14 | 37 | 229 | 0.24 | 1.4 | 2.3 | * |
| 128 | 26 | 232058.90 | 10004.83 | 83019.60 | 23.50 | 4.0 | 9 | 32 | 187 | 0.38 | 3.7 | 3.2 | * |
| 129 | 27 | 012816.92 | 9034.89 | 83043.34 | 2.33 | 3.5 | 11 | 5 | 246 | 0.13 | 0.9 | 0.5 | |
| 130 | 27 | 054243.83 | 10003.66 | 83019.19 | 22.20 | 5.2 | 13 | 30 | 207 | 0.35 | 3.7 | 3.8 | * |
| *131 | 27 | 082543.15 | 9026.09 | 82056.75 | 8.08 | 4.6 | 8 | 62 | 285 | 0.16 | 4.2 | 2.7 | * ▽ |
| *132 | 27 | 130509.37 | 9047.32 | 83021.84 | 12.06 | 4.8 | 11 | 37 | 117 | 0.22 | 1.3 | 1.7 | * ▽ |
| 133 | 27 | 133545.13 | 9039.92 | 83059.05 | 8.95 | 2.9 | 8 | 9 | 184 | 0.32 | 2.8 | 5.4 | |
| 134 | 27 | 140242.79 | 9043.82 | 83057.95 | 7.00 | 3.3 | 10 | 4 | 83 | 0.36 | 1.6 | 1.5 | * |
| *135 | 27 | 143406.80 | 9046.73 | 83004.06 | 7.08 | 3.8 | 7 | 22 | 192 | 0.19 | 1.3 | 2.6 | * |

ABRIL 1991

| No | DIA | T. ORIGIN | LAT.N | LONG.W | DEPTH | MAG | NO | DM | GAP | RMS | ERH | ERZ |
|------|-----|-----------|----------|----------|-------|-----|----|----|-----|------|------|-------|
| 136 | 27 | 153057.92 | 9044.63 | 83058.03 | 5.32 | 3.1 | 11 | 4 | 80 | 0.36 | 1.5 | 1.2 |
| *137 | 27 | 153437.73 | 9033.53 | 83034.46 | 5.12 | 3.4 | 7 | 20 | 128 | 0.36 | 1.8 | 2.3* |
| 138 | 27 | 162627.20 | 9043.23 | 83058.37 | 10.55 | 2.6 | 12 | 4 | 246 | 0.25 | *** | *** * |
| 139 | 27 | 203755.79 | 9054.85 | 83046.79 | 8.63 | 3.3 | 4 | 9 | 217 | 0.22 | *** | *** * |
| 140 | 27 | 220002.17 | 9046.59 | 83059.44 | 10.76 | 3.5 | 5 | 4 | 162 | 0.30 | 1.8 | 4.3 * |
| *141 | 27 | 222833.88 | 9052.42 | 83019.33 | 22.08 | 3.7 | 8 | 28 | 131 | 0.26 | 1.6 | 2.3* |
| *142 | 27 | 225845.74 | 9053.82 | 83023.74 | 14.45 | 4.0 | 12 | 35 | 140 | 0.31 | 1.9 | 2.3* |
| 143 | 28 | 004930.33 | 9049.47 | 83055.71 | 5.00 | 2.7 | 4 | 12 | 190 | 0.30 | *** | *** * |
| 144 | 28 | 012849.12 | 9045.84 | 84002.03 | 6.41 | 2.9 | 9 | 4 | 86 | 0.25 | 1.4 | 0.9 |
| 145 | 28 | 030259.24 | 9045.79 | 84002.46 | 5.95 | 2.8 | 9 | 5 | 88 | 0.29 | 1.7 | 1.2 |
| 146 | 28 | 083948.15 | 9040.56 | 83059.62 | 13.75 | 2.6 | 8 | 7 | 230 | 0.37 | 3.0 | 5.9 |
| 147 | 28 | 093449.12 | 9049.12 | 83050.63 | 6.87 | 2.8 | 11 | 11 | 118 | 0.29 | 1.2 | 1.3 * |
| 148 | 28 | 114314.30 | 9043.37 | 83051.52 | 5.00 | 2.8 | 7 | 16 | 143 | 0.33 | 3.5 | 3.8 |
| 149 | 28 | 135718.50 | 9038.53 | 83054.07 | 3.72 | 2.6 | 5 | 16 | 149 | 0.30 | 0.9 | 1.0 |
| *150 | 28 | 163042.77 | 9045.74 | 83031.55 | 6.00 | 3.8 | 12 | 29 | 118 | 0.25 | 1.3 | 2.9 * |
| *151 | 28 | 180544.00 | 9023.77 | 82045.60 | 11.21 | 4.0 | 13 | 74 | 238 | 0.24 | 2.4 | 4.2* |
| *152 | 28 | 182513.32 | 9026.22 | 83024.42 | 9.41 | 3.6 | 12 | 35 | 149 | 0.27 | 1.5 | 2.7* |
| 153 | 28 | 183448.13 | 9040.47 | 83052.65 | 11.33 | 3.0 | 9 | 10 | 160 | 0.28 | 1.6 | 4.3 |
| 154 | 28 | 191010.09 | 9043.30 | 83053.29 | 5.31 | 2.8 | 5 | 13 | 236 | 0.14 | 2.7 | 1.4 |
| 155 | 28 | 191110.14 | 9041.49 | 83051.75 | 7.20 | 2.6 | 8 | 12 | 158 | 0.28 | 0.8 | 1.9 * |
| 156 | 28 | 214651.84 | 9039.78 | 83053.57 | 20.33 | 2.9 | 7 | 11 | 162 | 0.19 | 2.8 | 2.9 |
| 157 | 28 | 232512.88 | 9046.77 | 83046.75 | 37.89 | 2.7 | 6 | 6 | 171 | 0.17 | 3.0 | 2.0 |
| 158 | 28 | 233328.10 | 9048.58 | 84007.59 | 15.93 | 2.1 | 5 | 37 | 295 | 0.48 | 4.4 | 3.8 |
| 159 | 28 | 233827.97 | 9041.67 | 83051.96 | 5.50 | 2.8 | 9 | 12 | 171 | 0.23 | 1.1 | 1.2 |
| 160 | 29 | 001024.49 | 9041.38 | 82050.73 | 39.62 | 3.0 | 8 | 17 | 178 | 0.22 | 3.3 | 2.3 |
| 161 | 29 | 001225.01 | 9040.68 | 83049.82 | 19.78 | 3.5 | 8 | 15 | 166 | 0.42 | 4.1 | 5.5 |
| 162 | 29 | 005208.72 | 9039.37 | 83053.68 | 15.67 | 2.8 | 6 | 14 | 149 | 0.25 | 4.6 | 4.6 |
| 163 | 29 | 010823.94 | 9038.75 | 83038.55 | 11.93 | 3.2 | 5 | 1 | 264 | 0.17 | 6.0 | 2.1 |
| 164 | 29 | 014745.51 | 9035.75 | 83049.57 | 10.13 | 3.0 | 6 | 12 | 140 | 0.19 | 4.2 | 5.5 |
| 165 | 29 | 023236.29 | 9032.41 | 83007.28 | 27.10 | 2.7 | 9 | 38 | 105 | 0.26 | 1.6 | 6.1 |
| 166 | 29 | 033533.88 | 9021.18 | 83007.90 | 37.57 | 2.6 | 6 | 61 | 218 | 0.22 | 6.9 | 7.3 |
| 167 | 29 | 033756.89 | 9038.33 | 82040.28 | 6.97 | 3.0 | 5 | 3 | 172 | 0.56 | 6.8 | 5.7 |
| 168 | 29 | 035046.22 | 9022.06 | 82047.89 | 27.66 | 3.3 | 16 | 34 | 178 | 0.41 | 2.0 | 5.0 |
| 169 | 29 | 040813.71 | 9056.09 | 82052.46 | 25.00 | 3.6 | 8 | 41 | 227 | 0.33 | 5.8 | 5.5 |
| 170 | 29 | 041158.46 | 9026.77 | 83026.77 | 19.26 | 2.1 | 5 | 12 | 186 | 0.91 | 7.5 | 3.9 |
| *171 | 29 | 043003.10 | 9050.20 | 83038.96 | 13.04 | 3.5 | 13 | 14 | 210 | 0.34 | 1.8 | 1.7 * |
| 172 | 29 | 045647.40 | 9022.21 | 82040.91 | 18.51 | 3.4 | 6 | 94 | 276 | 0.32 | 6.9 | 4.5 |
| 173 | 29 | 045956.41 | 10009.21 | 83013.74 | 16.28 | 3.3 | 7 | 86 | 260 | 0.41 | 10.4 | 7.5 |
| 174 | 29 | 054058.31 | 9041.52 | 83016.86 | 5.00 | 3.4 | 11 | 48 | 125 | 0.42 | 2.2 | 3.9 |
| 175 | 29 | 062802.29 | 9024.65 | 83002.03 | 23.17 | 3.4 | 13 | 36 | 130 | 0.21 | 1.0 | 4.6 |
| 176 | 29 | 065740.63 | 9040.38 | 82057.86 | 32.09 | 2.9 | 15 | 7 | 95 | 0.29 | 1.5 | 1.9 |
| 177 | 29 | 070219.78 | 9043.37 | 82050.81 | 19.57 | 2.9 | 9 | 24 | 188 | 0.48 | 6.0 | 4.2 |
| 178 | 29 | 073220.11 | 9042.82 | 83051.15 | 1.5 | 3.1 | 7 | 17 | 145 | 0.21 | 1.3 | 3.6 |
| 179 | 29 | 074808.49 | 9048.88 | 84011.32 | 20.14 | 3.7 | 5 | 6 | 96 | 0.33 | 1.3 | 5.1 |
| 180 | 29 | 074809.57 | 9047.61 | 84009.15 | 15.98 | 3.8 | 8 | 17 | 212 | 0.31 | 4.2 | 2.8 |

ABRIL 1991

| No | DIA | T. ORIGIN | LAT. N | LONG. W | DEPTH | MAG | NO | DM | GAP | RMS | ERH | ERZ |
|------|-----|-----------|----------|----------|-------|-----|----|-----|-----|------|------|-------|
| *181 | 29 | 082145.29 | 9217.33 | 82207.82 | 35.23 | 3.2 | 5 | 68 | 294 | 0.07 | 3.8 | 3.1* |
| *182 | 29 | 082603.28 | 9218.22 | 82226.91 | 12.74 | 3.1 | 8 | 43 | 258 | 0.57 | 14.9 | 24.1* |
| 183 | 29 | 085225.55 | 9233.56 | 82248.10 | 23.25 | 2.8 | 9 | 19 | 138 | 0.52 | 4.6 | 8.0 |
| 184 | 29 | 095917.73 | 10201.76 | 83226.88 | 13.02 | 2.7 | 5 | 25 | 214 | 0.30 | 3.7 | 9.1 |
| 185 | 29 | 100510.53 | 9244.88 | 82253.78 | 15.07 | 3.0 | 14 | 6 | 159 | 0.26 | 1.9 | 1.5 |
| 186 | 29 | 115049.47 | 9228.24 | 82250.31 | 36.36 | 2.8 | 4 | 101 | 238 | 0.17 | *** | *** |
| *187 | 29 | 124940.41 | 9245.64 | 83254.58 | 62.56 | 4.7 | 8 | 10 | 86 | 0.44 | 6.5 | 6.1* |
| 188 | 29 | 125834.67 | 9244.51 | 82254.78 | 11.04 | 3.1 | 14 | 8 | 151 | 0.38 | 2.6 | 2.3 |
| 189 | 29 | 134913.43 | 9244.30 | 83253.26 | 10.00 | 2.6 | 9 | 13 | 127 | 0.21 | 1.0 | 3.1 |
| *190 | 29 | 135336.94 | 9245.03 | 83207.13 | 19.64 | 4.2 | 11 | 26 | 176 | 0.24 | 1.9 | 3.1* |
| 191 | 29 | 135826.55 | 9227.39 | 82256.18 | 31.50 | 2.9 | 12 | 31 | 138 | 0.24 | 1.2 | 3.0 |
| 192 | 29 | 142107.98 | 9221.11 | 82244.52 | 27.14 | 3.4 | 14 | 33 | 192 | 0.42 | 2.2 | 4.4 |
| 193 | 29 | 142753.33 | 9240.49 | 82238.05 | 16.81 | 3.6 | 9 | 91 | 283 | 0.42 | 4.1 | *** |
| 194 | 29 | 154636.79 | 9249.61 | 83203.69 | 6.79 | 2.9 | 11 | 17 | 134 | 0.33 | 3.7 | 3.8 |
| 195 | 29 | 160844.93 | 9240.46 | 83235.54 | 13.81 | 3.4 | 11 | 21 | 99 | 0.57 | 3.2 | 5.7 |
| 196 | 29 | 201109.26 | 9241.40 | 83251.68 | 10.00 | 2.6 | 9 | 13 | 127 | 0.21 | 1.0 | 3.1 |
| 197 | 29 | 225315.87 | 9245.43 | 83250.34 | 10.87 | 3.0 | 9 | 11 | 121 | 0.22 | 1.4 | 3.3 |
| 198 | 29 | 161137.68 | 9252.54 | 83213.59 | 21.63 | 3.2 | 9 | 19 | 126 | 0.20 | 2.3 | 2.8 |
| 199 | 29 | 223923.10 | 9222.32 | 82244.58 | 12.80 | 3.5 | 5 | 18 | 240 | 0.48 | 4.3 | 1.3 |
| 200 | 29 | 224500.52 | 9235.55 | 82253.62 | 14.78 | 4.9 | 14 | 48 | 186 | 0.36 | 3.7 | 4.6* |
| 201 | 29 | 224842.48 | 9237.27 | 82255.22 | 24.70 | 4.6 | 15 | 44 | 184 | 0.31 | 2.0 | 2.1* |
| *202 | 29 | 225920.62 | 9237.05 | 82254.68 | 16.39 | 4.2 | 11 | 45 | 221 | 0.28 | 2.7 | 7.4* |
| 203 | 30 | 003355.32 | 9248.73 | 83253.74 | 14.00 | 3.3 | 6 | 13 | 124 | 0.13 | 1.7 | 3.8 |
| 204 | 30 | 002408.21 | 9253.02 | 83251.03 | 21.87 | 2.7 | 5 | 15 | 113 | 0.28 | 4.7 | 4.5* |
| *205 | 30 | 004047.43 | 9250.61 | 83216.53 | 13.17 | 3.4 | 8 | 25 | 186 | 0.41 | 3.3 | 4.0* |
| *206 | 30 | 021647.46 | 6253.24 | 83219.25 | 27.00 | 4.8 | 13 | 255 | 320 | 0.17 | *** | **** |
| *207 | 30 | 031506.69 | 9240.10 | 82253.59 | 20.67 | 4.2 | 16 | 41 | 227 | 0.32 | 2.1 | 2.8* |
| 208 | 30 | 135750.62 | 9247.04 | 83259.03 | 7.13 | 2.6 | 8 | 5 | 131 | 0.29 | 2.5 | 2.1 |
| 209 | 30 | 151618.84 | 9244.12 | 83249.97 | 6.75 | 2.9 | 9 | 13 | 129 | 0.18 | 0.9 | 0.9 |
| 210 | 30 | 162519.08 | 9248.73 | 83257.94 | 6.82 | 3.1 | 10 | 9 | 117 | 0.41 | 2.0 | 2.3 |
| 211 | 30 | 192733.90 | 9217.75 | 82239.20 | 38.21 | 3.1 | 11 | 38 | 217 | 0.24 | 2.9 | 1.7 |
| *212 | 30 | 203138.65 | 9233.42 | 83236.26 | 13.60 | 4.0 | 10 | 17 | 104 | 0.29 | 1.9 | 3.9* |
| 213 | 30 | 204950.02 | 9259.24 | 83201.92 | 30.68 | 2.8 | 6 | 7 | 230 | 0.08 | 3.2 | 1.7 |
| 214 | 30 | 205332.17 | 9250.21 | 83203.31 | 5.60 | 3.2 | 19 | 4 | 86 | 0.34 | 1.6 | 1.3 |
| 215 | 30 | 211057.12 | 9245.08 | 83251.74 | 10.14 | 2.7 | 8 | 13 | 114 | 0.20 | 1.6 | 4.1 |
| 216 | 30 | 211824.52 | 9244.63 | 84211.72 | 4.64 | 3.9 | 10 | 21 | 211 | 0.20 | 1.2 | 0.9* |
| 217 | 30 | 211944.32 | 9226.03 | 84208.23 | 13.66 | 3.2 | 6 | 3 | 131 | 0.43 | 8.6 | 7.5 |
| 218 | 30 | 212623.92 | 9244.63 | 84213.02 | 2.63 | 3.2 | 8 | 24 | 231 | 0.10 | 1.9 | 1.0 |
| 219 | 30 | 213802.21 | 9238.24 | 83210.77 | 6.26 | 3.3 | 17 | 30 | 89 | 0.24 | 0.8 | 1.6 |
| 220 | 30 | 213951.36 | 9251.47 | 83218.85 | 9.37 | 2.9 | 15 | 16 | 102 | 0.42 | 2.1 | 6.0 |
| 221 | 30 | 224657.81 | 9237.10 | 82258.29 | 21.51 | 2.9 | 16 | 13 | 105 | 0.41 | 2.2 | 4.4 |
| 222 | 30 | 233834.48 | 9228.85 | 83201.42 | 27.49 | 3.1 | 15 | 35 | 122 | 0.30 | 1.5 | 6.5 |

Nota: Los eventos con (**) información del NEIC BULLETIN.

PARTE B

LECTURAS DE LOS TIEMPOS DE ARRIBO DE LOS SISMOS
REGIONALES, TELESISMOS Y EVENTOS LOCALES CON M >= 4,0

ABRIL 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| SJS | 03 | 071736.00 | EP | Z | |
| LCR2 | 03 | 071737.60 | IP | Z | |
| URS | 03 | 071740.50 | IP | Z | |
| ICR | 03 | 071740.00 | IP | Z | |
| SRA | 03 | 071729.90 | EP | Z | + |
| BUS | 03 | 071741.10 | IP | Z | C |
| JCR | 03 | 071723.00 | IP | Z | D |
| VCR | 03 | 071714.50 | IP | Z | |
| QCR | 03 | 071737.10 | IP | Z | C |

Honduras Mb= 4,7

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 04 | 032431.90 | IP | Z | D |
| | | 2446.10 | S | Z | |
| ICR | 04 | 032429.00 | IP | Z | D |
| LCR2 | 04 | 032431.00 | EP | Z | |
| SRA | 04 | 032438.00 | IP | Z | C |
| | | 2454.00 | S | Z | |
| LIO | 04 | 032419.00 | IP | Z | |
| BUS | 04 | 032425.10 | IP | Z | C |
| JCR | 04 | 032446.00 | EP | Z | |
| VCR | 04 | 032455.00 | IP | Z | D |
| QCR | 04 | 032431.80 | IP | Z | C |

Sur de Panamá Mb= 6,1

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 04 | 152724.90 | IP | Z | C |
| ICR | 04 | 152725.00 | EP | Z | |
| LCR2 | 04 | 152721.20 | EP | Z | |
| SRA | 04 | 152728.40 | IP | Z | C |
| VCR | 04 | 152735.10 | IP | Z | C |
| QCR | 04 | 152718.20 | IP | Z | D |

Norte de Perú Mb= 5,9

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 04 | 223548.60 | IP | Z | D |
| | | 3577.00 | S | Z | |
| LCR2 | 04 | 223545.70 | IP | Z | D |
| ICR | 04 | 223547.20 | EP | Z | |
| URS | 04 | 223544.85 | IP | Z | D |
| | | 3569.70 | S | Z | |
| SRA | 04 | 223554.80 | IP | Z | D |
| | | 3566.10 | S | Z | |
| ACR | 04 | 223523.00 | IP | Z | C |
| LIO | 04 | 223543.80 | IP | Z | D |
| BUS | 04 | 223540.70 | IP | Z | C |
| JCR | 04 | 223557.30 | EP | Z | + |
| VCR | 04 | 223605.00 | IP | Z | D |

12 Km al Sursureste de Golfito, Costa Rica, Md= 4,4

ABRIL 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| SJS | 05 | 042354.00 | IP | Z | D |
| LCR2 | 05 | 042353.80 | EP | Z | |
| URS | 05 | 042353.10 | IP | Z | C |
| ACR | 05 | 042341.00 | EP | Z | |
| LIO | 05 | 042353.50 | EP | Z | |
| BUS | 05 | 042346.10 | IP | Z | |
| JCR | 05 | 042358.20 | IP | Z | |
| VCR | 05 | 042404.80 | IP | Z | C |
| QCR | 05 | 042350.30 | IP | Z | D |

Terremoto al norte del Perú Mb 6,5, Ms= 7,3

| | | | | | |
|-----|----|-----------|----|---|--|
| SJS | 05 | 050512.10 | IP | Z | |
| URS | 05 | 050509.20 | | Z | |
| SRA | 05 | 050518.00 | IP | Z | |
| BUS | 05 | 050609.10 | IP | Z | |
| JCR | 05 | 050616.00 | EP | Z | |

Terremoto al norte del Perú Mb= 5,5

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 05 | 155615.60 | IP | Z | D |
| LCR2 | 05 | 155614.00 | EP | Z | |
| ICR | 05 | 155615.00 | EP | Z | |
| BUS | 05 | 155610.90 | IP | Z | D |
| JCR | 05 | 155618.40 | IP | Z | |
| VCR | 05 | 155621.00 | IP | Z | |
| QCR | 05 | 155610.80 | IP | Z | D |
| ACR | 05 | 155600.00 | IP | Z | |

Telesismo, cerca de costa del Perú Mb= 5,8

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 07 | 094307.00 | IP | Z | C |
| ICR | 07 | 094309.50 | IP | Z | |
| URS | 07 | 094310.10 | IP | Z | C |
| SRA | 07 | 094301.20 | IP | Z | C |
| QCR | 07 | 094308.10 | IP | Z | |
| VCR | 07 | 094248.00 | IP | Z | |

Telesismo

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 09 | 015878.90 | EP | Z | + |
| LCR2 | 09 | 015848.10 | EP | Z | |
| ICR | 09 | 015850.50 | EP | Z | |
| URS | 09 | 015851.00 | EP | Z | + |
| | | 5944.30 | S | Z | |
| SRA | 09 | 015843.60 | IP | Z | C |
| BUS | 09 | 015825.90 | IP | Z | |
| JCR | 09 | 015831.60 | IP | Z | |
| URS | 09 | 015823.00 | EP | Z | |

Telesismo

ABRIL 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| SJS | 09 | 060710.40 | IP | Z | C |
| LCR2 | 09 | 060708.10 | IP | Z | C |
| ICR | 09 | 060709.90 | IP | Z | C |
| URS | 09 | 060708.00 | IP | Z | C |
| SRA | 09 | 060713.10 | IP | Z | C |
| BUS | 09 | 060710.00 | EP | Z | |
| JCR | 09 | 060713.90 | IP | Z | C |
| VCR | 09 | 060718.00 | EP | Z | |
| QCR | 09 | 060705.10 | IP | Z | C |

Perú, Mb= 5,9

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 12 | 084251.70 | EP | Z | - |
| LCR2 | 12 | 084254.60 | IP | Z | C |
| PRS | 12 | 084254.00 | EP | Z | |
| SRA | 12 | 084246.10 | EP | Z | - |
| ACR | 12 | 084311.60 | IP | Z | |
| LIO | 12 | 084304.10 | EP | Z | + |
| BUS | 12 | 084258.90 | IP | Z | C |
| VCR | 12 | 084232.10 | IP | Z | D |
| QCR | 12 | 084245.00 | IP | Z | D |
| JCR | 12 | 084240.70 | IP | Z | C |

El Salvador, Mb= 5,1

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 14 | 192836.10 | IP | Z | D |
| | | 2857.00 | S | Z | |
| PRS | 14 | 192837.50 | IP | Z | |
| URS | 14 | 192831.10 | IP | Z | C |
| | | 2848.10 | S | | |
| LCR2 | 14 | 192832.60 | IP | Z | D |
| ICR | 14 | 192834.00 | IP | Z | D |
| | | 2853.90 | S | | |
| LIO | 14 | 192827.60 | IP | Z | C |
| BUS | 14 | 192827.80 | IP | Z | C |
| QCR | 14 | 192831.90 | IP | Z | |
| JCR | 14 | 192851.00 | EP | Z | |
| FOR | 14 | 192849.00 | EP | Z | |

17 Km al Noreste de San Vito de Coto Brus, Costa Rica, Mb= 5,1

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 15 | 193004.20 | IP | Z | D |
| ICR | 15 | 193008.50 | IP | Z | |
| PRS | 15 | 192959.60 | IP | Z | D |
| URS | 15 | 193009.10 | IP | Z | D |
| SRA | 15 | 193002.90 | IP | Z | D |
| BUS | 15 | 193010.10 | IP | Z | D |
| JCR | 15 | 193011.80 | IP | Z | D |

Telesismo

ABRIL 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|-----|-----|-----------|------|------|-----|
| SJS | 15 | 203032.00 | IP | Z | C |
| ICR | 15 | 203032.50 | IP | Z | |
| URS | 15 | 203032.30 | IP | Z | C |
| SRA | 15 | 203027.00 | IP | Z | C |
| BUS | 15 | 203031.40 | EP | Z | |
| JCR | 15 | 203018.50 | EP | Z | + |
| VCR | 15 | 203004.10 | EP | Z | |

Telesismo

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 16 | 004539.00 | IP | Z | |
| ICR | 16 | 004539.50 | IP | Z | |
| SRA | 16 | 004532.10 | IP | Z | C |
| BUS | 16 | 004540.50 | EP | Z | + |
| JCR | 16 | 004520.10 | EP | Z | |
| VCR | 16 | 004511.90 | EP | Z | + |

Telesismo

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 18 | 052804.10 | EP | Z | |
| ICR | 18 | 052809.10 | EP | Z | + |
| LCR2 | 18 | 052807.50 | EP | Z | |
| URS | 18 | 052810.40 | IP | Z | |
| SRA | 18 | 052802.60 | EP | Z | |
| BUS | 18 | 052812.50 | EP | Z | + |
| QCR | 18 | 052807.30 | IP | Z | |
| JCR | 18 | 052750.80 | EP | Z | + |
| VCR | 18 | 052745.40 | EP | Z | |

Regional

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 18 | 053843.60 | IP | Z | C |
| ICR | 18 | 053844.70 | IP | Z | C |
| URS | 18 | 053842.30 | IP | Z | C |
| SRA | 18 | 053841.00 | IP | Z | C |
| BUS | 18 | 053844.10 | IP | Z | C |
| JCR | 18 | 053839.20 | IP | Z | C |
| VCR | 18 | 053837.20 | IP | Z | C |

Telesismo

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 19 | 064455.60 | IP | Z | D |
| ICR | 19 | 064453.00 | IP | Z | |
| LCR2 | 19 | 064455.50 | IP | Z | D |
| URS | 19 | 064452.50 | IP | Z | D |
| SRA | 19 | 064458.50 | IP | Z | D |
| BUS | 19 | 064453.50 | IP | Z | D |
| QCR | 19 | 064507.11 | IP | Z | |

Regional, Islas Leeward Mb= 5,4

ABRIL 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|--|-----|-----------|------|------|-----|
| SJS | 19 | 154821.60 | IP | Z | C |
| JCR | 19 | 154806.60 | IP | Z | D |
| VCR | 19 | 154815.00 | IP | Z | D |
| SRA | 19 | 154816.30 | IP | Z | C |
| PRS | 19 | 154817.30 | IP | Z | |
| QCR | 19 | 154819.00 | IP | Z | D |
| LCR2 | 19 | 154821.80 | IP | Z | |
| URS | 19 | 154825.20 | IP | Z | C |
| BUS | 19 | 154825.40 | IP | Z | C |
| LIO | 19 | 154836.10 | IP | Z | C |
| 3 Km al Noroeste de Cabuya, Puntarenas, Costa Rica, Md= 4,5 | | | | | |
| SJS | 19 | 165320.10 | IP | Z | C |
| VCR | 19 | 165313.30 | IP | Z | C |
| SRA | 19 | 165315.00 | IP | Z | C |
| PRS | 19 | 165315.95 | IP | Z | |
| QCR | 19 | 165317.30 | IP | Z | D |
| LCR2 | 19 | 165320.00 | IP | Z | C |
| ICR | 19 | 165323.90 | IP | Z | |
| URS | 19 | 165324.00 | IP | Z | C |
| BUS | 19 | 165323.80 | IP | Z | C |
| LIO | 19 | 165334.70 | IP | Z | C |
| 4 Km al Suroeste de Cabuya, Puntarenas, Costa Rica, Md= 4,6 | | | | | |
| SJS | 19 | 220808.40 | IP | Z | |
| URS | 19 | 220808.10 | IP | Z | D |
| ICR | 19 | 220807.20 | IP | Z | |
| LCR2 | 19 | 220807.50 | IP | Z | C |
| 11 Km al Noreste de Paquera, Puntarenas, Costa Rica, Md= 4,1 | | | | | |
| SJS | 22 | 220600.00 | IP | Z | |
| Mb= 5,6 Información del NEIC BULLETIN. ① | | | | | |
| SJS | 22 | 220700.00 | IP | Z | |
| Mb= 5,5 Información del NEIC BULLETIN. ② | | | | | |
| SJS | 22 | 221900.00 | IP | Z | |
| Mb= 5,4 Información del NEIC BULLETIN. ③ | | | | | |
| SJS | 22 | 225100.00 | IP | Z | |
| Mb= 5,1 Información del NEIC BULLETIN. ④ | | | | | |
| SJS | 22 | 231300.00 | IP | Z | |
| Mb= 4,7 Información del NEIC BULLETIN. ⑤ | | | | | |
| SJS | 22 | 215710.00 | IP | Z | C |
| LIO | 22 | 215695.95 | IP | Z | D |
| BUS | 22 | 215704.00 | IP | Z | D |
| URS | 22 | 215704.70 | IP | Z | D |
| ICR | 22 | 215706.80 | IP | Z | + |
| LCR2 | 22 | 215708.20 | IP | Z | D |
| ACR | 22 | 215710.10 | IP | Z | D |
| QCR | 22 | 215711.20 | IP | Z | C |
| PRS | 22 | 215713.90 | IP | Z | D |
| SRA | 22 | 215716.80 | IP | Z | + |
| FOR | 22 | 215723.05 | EP | Z | |

OK

ABRIL 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|---|-----|-----------|------|------|-----|
| VCR | 22 | 215734.20 | IP | Z | C |
| 38 Km al Suroeste de la Ciudad de Limón, Costa Rica ML = 6,6, Mb= 6,5, Ms= 7,5 (NEIC), Mw= 7,7 (RSN), Area de ruptura = 2000 Km cuadrados. | | | | | |
| Desplazamiento estimado a lo largo del plano de falla= 2.5 Mts. Inclinación de la falla 37°. Originado en la Falla Costera del Caribe. Intensidad máxima (M,M) = IX en la Cuenca del Río Chirripó, Valle la Estrella. 100 muertos y 700 heridos. (Ver al final mecanismo focal y diagrama de interpretación). | | | | | |
| SJS | 23 | 011300.00 | IP | Z | |
| Mb= 4,5 Información del NEIC BULLETIN. (6) | | | | | |
| SJS | 23 | 033700.00 | IP | Z | |
| Mb= 5,1 Información del NEIC BULLETIN. (7) | | | | | |
| SJS | 23 | 060200.00 | IP | Z | |
| Mb= 4,6 Información del NEIC BULLETIN. (8) | | | | | |
| SJS | 23 | 074421.95 | IP | Z | D |
| | | 4431.10 | S | Z | |
| LIO | 23 | 074416.20 | IP | Z | D |
| | | 4421.60 | S | Z | |
| BUS | 23 | 074418.00 | IP | Z | D |
| ICR | 23 | 074418.00 | IP | Z | C |
| LCR2 | 23 | 074420.50 | IP | Z | C |
| PRS | 23 | 074425.80 | IP | Z | |
| FOR | 23 | 074434.80 | IP | Z | D |
| 11 Km al Sureste de Moravia de Chirripó, Costa Rica, Md= 4,4 | | | | | |
| SJS | 23 | 082214.85 | IP | Z | D |
| LIO | 23 | 082208.90 | IP | Z | D |
| | | 2213.80 | S | Z | |
| ICR | 23 | 082210.00 | IP | Z | |
| BUS | 23 | 082211.40 | IP | Z | D |
| LCR2 | 23 | 082213.60 | IP | Z | C |
| QCR | 23 | 082218.80 | IP | Z | D |
| PRS | 23 | 082219.00 | IP | Z | C |
| FOR | 23 | 082227.70 | IP | Z | D |
| | | 2246.50 | S | Z | |
| 3 Km al Suroeste de Moravia de Chirripó, Costa Rica, Md=4,5 | | | | | |
| SJS | 23 | 083254.50 | IP | Z | D |
| LIO | 23 | 083244.80 | IP | Z | D |
| BUS | 23 | 083250.00 | IP | Z | C |
| LCR2 | 23 | 083253.20 | IP | Z | C |
| ACR | 23 | 083258.40 | IP | Z | D |
| PRS | 23 | 083259.00 | IP | Z | C |
| 23 Km al Suroeste de Moravia de Chirripó, Costa Rica, Md= 4,9 | | | | | |
| SJS | 23 | 090955.35 | IP | Z | D |
| LIO | 23 | 090944.80 | IP | Z | C |
| BUS | 23 | 090950.50 | IP | Z | D |
| ICR | 23 | 090952.00 | IP | Z | + |
| PRS | 23 | 090959.10 | IP | Z | |
| FOR | 23 | 091008.20 | IP | Z | D |

ABRIL 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|---|-----|-----------|------|------|-----|
| 25 Km al Suroeste de Moravia de Chirripó, Costa Rica, Md= 4,1 | | | | | |
| SJS | 23 | 092614.15 | IP | Z | D |
| | | 2624.50 | S | Z | |
| ICR | 23 | 092611.95 | IP | Z | D |
| LCR2 | 23 | 092611.90 | IP | Z | C |
| VCR | 23 | 092645.40 | IP | Z | D |
| FOR | 23 | 092628.60 | IP | Z | C |
| BUS | 23 | 092606.80 | IP | Z | C |
| LIO | 23 | 092619.26 | IP | Z | C |
| QCR | 23 | 092614.80 | IP | Z | C |
| 8 Km al Este del Cerro de La Muerte, Costa Rica, Md= 4,4 | | | | | |
| SJS | 23 | 113500.00 | IP | Z | |
| Mb= 4,3 Información del NEIC BULLETIN. | | | | | |
| SJS | 23 | 185659.85 | IP | Z | D |
| LIO | 23 | 185651.00 | IP | Z | |
| URS | 23 | 185654.40 | IP | Z | C |
| BUS | 23 | 185656.00 | IP | Z | |
| ICR | 23 | 185655.00 | IP | Z | C |
| LCR2 | 23 | 185659.00 | IP | Z | C |
| QCR | 23 | 185702.00 | IP | Z | |
| PRS | 23 | 185703.80 | IP | Z | C |
| ACR | 23 | 185705.00 | IP | Z | |
| JCR | 23 | 185716.00 | IP | Z | |
| VCR | 23 | 185724.00 | IP | Z | |
| 22 Km al Suroeste de Limón, Costa Rica, Md= 4,99 | | | | | |
| SJS | 23 | 191626.20 | IP | Z | D |
| URS | 23 | 191621.40 | IP | Z | C |
| LIO | 23 | 191621.70 | IP | Z | |
| ICR | 23 | 191621.55 | IP | Z | C |
| BUS | 23 | 191624.30 | IP | Z | |
| LCR2 | 23 | 191626.00 | IP | Z | C |
| PRS | 23 | 191631.00 | IP | Z | D |
| QCR | 23 | 191631.10 | IP | Z | |
| ACR | 23 | 191638.10 | IP | Z | |
| FOR | 23 | 191638.50 | IP | Z | |
| JCR | 23 | 191643.90 | IP | Z | |
| 10 Km al Noreste de Moravia de Chirripó, Costa Rica, Md= 4,1 | | | | | |
| SJS | 23 | 195854.00 | IP | Z | D |
| LIO | 23 | 195846.20 | IP | Z | |
| URS | 23 | 195849.00 | IP | Z | D |
| ICR | 23 | 195849.20 | IP | Z | C |
| BUS | 23 | 195850.80 | IP | Z | |
| LCR2 | 23 | 195853.80 | IP | Z | - |
| QCR | 23 | 195858.20 | IP | Z | |
| PRS | 23 | 195858.00 | IP | Z | D |
| ACR | 23 | 195903.10 | IP | Z | |
| FOR | 23 | 195906.00 | IP | Z | |
| JCR | 23 | 195911.70 | IP | Z | |
| VCR | 23 | 195919.60 | IP | Z | |
| 16 Km al Suroeste de Corina, Limón, Costa Rica, Md= 4,1 | | | | | |

LOP

12
mas
latos

ABRIL 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|---|-----|-----------|------|------|-----|
| SJS | 23 | 202544.20 | IP | Z | C |
| LIO | 23 | 202534.30 | IP | Z | |
| BUS | 23 | 202538.00 | IP | Z | |
| ACR | 23 | 202539.80 | IP | Z | |
| ICR | 23 | 202541.50 | IP | Z | C |
| LCR2 | 23 | 202542.00 | IP | Z | |
| QCR | 23 | 202544.90 | IP | Z | |
| PRS | 23 | 202548.00 | IP | Z | |
| FOR | 23 | 202557.70 | IP | Z | |
| JCR | 23 | 202559.30 | IP | Z | |
| 13 Km al Suroeste de Amubri Limón, Costa Rica, Md= 4,0 | | | | | |
| SJS | 23 | 212426.85 | IP | Z | D |
| LIO | 23 | 212419.70 | IP | Z | |
| ICR | 23 | 212423.00 | IP | Z | |
| BUS | 23 | 212423.10 | IP | Z | |
| LCR2 | 23 | 212425.30 | IP | Z | C |
| QCR | 23 | 212430.20 | IP | Z | D |
| PRS | 23 | 212431.00 | IP | Z | C |
| ACR | 23 | 212436.00 | IP | Z | D |
| JCR | 23 | 212444.00 | IP | Z | C |
| VCR | 23 | 212452.00 | IP | Z | C |
| 4 Km al Este de Moravia de Chirripó, Costa Rica, Md= 4,3 | | | | | |
| SJS | 23 | 215418.30 | IP | Z | C |
| ICR | 23 | 215414.30 | IP | Z | C |
| LCR2 | 23 | 215418.20 | IP | Z | |
| | | 5427.20 | S | Z | |
| PRS | 23 | 215423.00 | IP | Z | D |
| QCR | 23 | 215423.00 | IP | Z | D |
| ACR | 23 | 215429.95 | IP | Z | |
| JCR | 23 | 215436.00 | IP | Z | C |
| | | 5456.80 | S | Z | |
| 5 Km al Noroeste de Barbilla, Siquirres Costa Rica, Md= 4,0 | | | | | |
| SJS | 23 | 220511.80 | IP | Z | C |
| LIO | 23 | 220506.11 | IP | Z | D |
| URS | 23 | 220505.90 | IP | Z | |
| ICR | 23 | 220507.20 | IP | Z | |
| BUS | 23 | 220508.60 | IP | Z | |
| PRS | 23 | 220515.00 | IP | Z | |
| QCR | 23 | 220515.80 | IP | Z | D |
| ACR | 23 | 220522.80 | IP | Z | |
| JCR | 23 | 220528.70 | IP | Z | C |
| 4 Km al Oeste del Barbilla, Siquirres, Costa Rica, Md= 4,0 | | | | | |
| SJS | 23 | 220736.15 | IP | Z | C |
| LIO | 23 | 220731.10 | IP | Z | |
| URS | 23 | 220730.30 | IP | Z | C |
| | | 0736.50 | S | Z | |
| BUS | 23 | 220733.60 | IP | Z | D |
| LCR2 | 23 | 220735.50 | IP | Z | |
| PRS | 23 | 220740.50 | IP | Z | C |
| QCR | 23 | 220740.80 | EP | Z | |
| ACR | 23 | 220747.80 | EP | Z | |
| JCR | 23 | 220753.20 | IP | Z | |

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ABRIL 1991

| RST | DIA | TIEMPO | FASE | COMP | POL |
|--|-----|----------------------|---------|--------|-----|
| VCR | 23 | 0754.10 220802.50 | S IP | Z Z | |
| 25 Km al Suroeste de Limón, Costa Rica, Md= 4,5 | | | | | |
| SJS | 24 | 024516.70 4529.00 | IP S | Z Z | D |
| LIO | 24 | 024505.80 | IP | Z | D |
| URS | 24 | 024511.50 | IP | Z | C |
| LCR2 | 24 | 024515.15 | IP | Z | D |
| QCR | 24 | 024519.40 | IP | Z | C |
| ACR | 24 | 024522.30 | IP | Z | |
| JCR | 24 | 024534.60 | IP | Z | C |
| VCR | 24 | 024542.40 | IP | Z | D |
| 26 Km al Suroeste de Limón, Costa Rica, Md= 4,4 | | | | | |
| SJS | 24 | 133242.30 3254.30 | IP S | Z Z | D |
| LIO | 24 | 133231.70 | IP | Z | |
| URS | 24 | 133236.90 | IP | Z | D |
| BUS | 24 | 133238.00 | IP | Z | C |
| LCR2 | 24 | 133241.00 | IP | Z | C |
| PRS | 24 | 133246.50 | IP | Z | C |
| ACR | 24 | 133247.00 | IP | Z | C |
| 29 Km al Suroeste de Limón, Costa Rica, Md= 4,1 | | | | | |
| SJS | 24 | 044100.00 | IP | Z | |
| Mb= 4,5 Información del NEIC BULLETIN (14) | | | | | |
| SJS | 24 | 142208.60 | IP | Z | C |
| LIO | 24 | 142156.60 | IP | Z | |
| URS | 24 | 142203.50 | IP | Z | C |
| ICR | 24 | 142204.30 | IP | Z | C |
| BUS | 24 | 142205.00 | IP | Z | |
| QCR | 24 | 142212.00 | IP | Z | |
| PRS | 24 | 142212.90 | IP | Z | |
| ACR | 24 | 142215.00 | IP | Z | |
| FOR | 24 | 142220.30 | IP | Z | |
| VCR | 24 | 142234.00 | IP | Z | |
| 18 Km al Suroeste de Limón, Costa Rica, Md= 4,6 (15) Se necesitan datos | | | | | |
| SJS | 24 | 151845.20 | IP | Z | D |
| LIO | 24 | 151836.00 | IP | Z | |
| URS | 24 | 151839.50 | IP | Z | C |
| ICR | 24 | 151840.30 | IP | Z | C |
| LCR2 | 24 | 151844.30 | IP | Z | C |
| QCR | 24 | 151848.50 | IP | Z | |
| PRS | 24 | 151849.20 | IP | Z | C |
| ACR | 24 | 151853.00 | IP | Z | |
| 10 Km al Sur de Zent Limón Costa Rica, Md= 4,2 | | | | | |
| SJS | 24 | 160848.40 | IP | Z | D |
| LIO | 24 | 160837.10 | IP | Z | |
| ACR | 24 | 160839.95 | IP | Z | |
| BUS | 24 | 160842.00 | IP | Z | |
| URS | 24 | 160843.60 | IP | Z | C |
| ICR | 24 | 160845.90 | IP | Z | C |

ABRIL 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|---|-----|-----------|------|------|-----|
| LCR2 | 24 | 160846.80 | IP | Z | |
| QCR | 24 | 160848.30 | IP | Z | |
| PRS | 24 | 160851.90 | IP | Z | C |
| 31 Km al Suroeste de Sixaola Limón, Costa Rica, Md= 4,3 | | | | | |
| SJS | 24 | 173256.30 | IP | Z | C |
| QCR | 24 | 173257.00 | IP | Z | |
| URS | 24 | 173251.10 | IP | Z | C |
| PRS | 24 | 173259.30 | IP | Z | |
| LCR2 | 24 | 173253.90 | IP | Z | |
| ICR | 24 | 173251.50 | IP | Z | |
| VCR | 24 | 173312.20 | IP | Z | C |
| LIO | 24 | 173256.30 | IP | Z | |
| 9 Km al Suroeste de la Suiza Turrialba, Costa Rica, Md= 4,1 | | | | | |
| SJS | 24 | 175415.90 | IP | Z | D |
| LIO | 24 | 175409.60 | IP | Z | |
| URS | 24 | 175410.70 | IP | Z | C |
| BUS | 24 | 175411.20 | IP | Z | |
| LCR2 | 24 | 175414.50 | IP | Z | - |
| QCR | 24 | 175418.50 | IP | Z | |
| PRS | 24 | 175420.00 | IP | Z | C |
| ACR | 24 | 175423.00 | IP | Z | |
| FOR | 24 | 175429.00 | IP | Z | |
| 18 Km al Sureste de Moravia de Chirripó Limón, Costa Rica, Md= 4,9 | | | | | |
| SJS | 24 | 191311.80 | IP | Z | D |
| BUS | 24 | 191304.20 | IP | Z | |
| URS | 24 | 191306.80 | IP | Z | |
| ICR | 24 | 191309.90 | IP | Z | |
| QCR | 24 | 191312.10 | IP | Z | |
| ACR | 24 | 191314.00 | IP | Z | |
| PRS | 24 | 191314.50 | IP | Z | |
| FOR | 24 | 191326.00 | IP | Z | |
| 23 Km al Noreste de San Isidro de Pérez Zeledón, Costa Rica, Md= 5,5 Intensidades= V y VI en San Isidro y Turrialba (ver Mecanismo Focal). | | | | | |
| SJS | 24 | 213415.00 | IP | Z | D |
| URS | 24 | 213410.50 | IP | Z | D |
| ICR | 24 | 213412.00 | IP | Z | |
| | | 3422.00 | S | Z | |
| LCR2 | 24 | 213413.50 | IP | Z | |
| PRS | 24 | 213419.00 | IP | Z | + |
| 36 Km al Suroeste de Limón, Costa Rica, Md= 4,4 | | | | | |
| SJS | 25 | 021000.00 | IP | Z | |
| Mb= 4,6 Información del NEIC BULLETIN. | | | | | |
| SJS | 25 | 003802.80 | IP | Z | C |
| BUS | 25 | 003802.10 | IP | Z | |
| FOR | 25 | 003823.20 | IP | Z | |
| | | 3844.70 | S | Z | |
| ACR | 25 | 003815.60 | IP | Z | |
| | | 3829.00 | S | Z | |
| VCR | 25 | 003825.00 | IP | Z | |
| | | 3849.00 | S | Z | |

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ABRIL 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|--|-----|-----------|------|------|-----|
| LIO | 25 | 003808.50 | IP | Z | D |
| JCR | 25 | 003825.00 | IP | Z | C |
| | | 3849.00 | S | Z | |
| QCR | 25 | 003810.00 | IP | Z | D |
| 26 Km al Noreste de San Isidro de Pérez Zeledón, Costa Rica, Md= 4,0 | | | | | |
| SJS | 25 | 021653.40 | IP | Z | D |
| BUS | 25 | 021648.00 | IP | Z | |
| QCR | 25 | 021654.10 | IP | Z | C |
| ACR | 25 | 021650.90 | IP | Z | |
| LIO | 25 | 021644.10 | IP | Z | |
| VCR | 25 | 021709.00 | IP | Z | |
| JCR | 25 | 021709.00 | IP | Z | |
| URS | 25 | 021649.00 | IP | Z | C |
| LCR2 | 25 | 021652.10 | IP | Z | C |
| ICR | 25 | 021651.00 | IP | Z | D |
| 17 Km al Oeste de Amubrí Limón, Costa Rica, Md= 4,9 | | | | | |
| SJS | 25 | 024801.80 | IP | Z | D |
| ICR | 25 | 024857.80 | IP | Z | D |
| LCR2 | 25 | 024800.90 | IP | Z | C |
| PRS | 25 | 024806.00 | IP | Z | C |
| FOR | 25 | 024814.10 | IP | Z | C |
| ACR | 25 | 024807.00 | IP | Z | C |
| QCR | 25 | 024805.00 | IP | Z | D |
| VCR | 25 | 024818.50 | IP | Z | |
| LIO | 25 | 024750.40 | IP | Z | D |
| BUS | 25 | 024758.00 | IP | Z | |
| URS | 25 | 024757.00 | IP | Z | |
| 20 Km al Suroeste de Limón, Costa Rica, Md= 4,8 | | | | | |
| SJS | 25 | 075539.90 | IP | Z | C |
| PRS | 25 | 075543.50 | IP | Z | C |
| ICR | 25 | 075537.00 | IP | Z | C |
| URS | 25 | 075535.30 | IP | Z | |
| | | 5542.30 | S | Z | |
| ACR | 25 | 075547.20 | IP | Z | D |
| QCR | 25 | 075541.00 | IP | Z | D |
| FOR | 25 | 075555.00 | IP | Z | C |
| BUS | 25 | 075534.00 | IP | Z | C |
| LIO | 25 | 075540.80 | IP | Z | C |
| VCR | 25 | 075556.00 | IP | Z | C |
| JCR | 25 | 075557.00 | IP | Z | C |
| LCR2 | 25 | 075538.00 | IP | Z | C |
| 30 Km al Noreste de San Isidro de Pérez Zeledón, Costa Rica, Md= 4,7 | | | | | |
| SJS | 25 | 143216.50 | IP | Z | C |
| | | 3214.86 | S | Z | |
| URS | 25 | 143211.00 | IP | Z | C |
| PRS | 25 | 143220.80 | IP | Z | C |
| ICR | 25 | 143212.10 | IP | Z | C |
| LCR2 | 25 | 143215.30 | IP | Z | C |
| JCR | 25 | 143233.70 | IP | Z | C |
| | | 3248.10 | S | Z | |
| VCR | 25 | 143233.80 | IP | Z | D |
| | | 3253.70 | S | Z | |

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Listo

ABRIL 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|--|-----|-----------|------|------|-----|
| BUS | 25 | 143214.00 | IP | Z | D |
| QCR | 25 | 143220.30 | IP | Z | D |
| | | 3232.50 | S | Z | |
| FOR | 25 | 143229.80 | IP | Z | D |
| | | 3245.20 | S | Z | |
| LIO | 25 | 143213.50 | IP | Z | |
| 9 Km al Noroeste de Moravia de Chirripó Limón, Costa Rica, Md= 4,4 | | | | | |
| SJS | 25 | 152836.30 | IP | Z | C |
| VCR | 25 | 152853.60 | EP | Z | + |
| | | 2916.40 | S | Z | |
| QCR | 25 | 152840.00 | IP | Z | |
| | | 2852.40 | S | Z | |
| ACR | 25 | 152846.20 | IP | Z | |
| FOR | 25 | 152849.30 | IP | Z | + |
| JCR | 25 | 152853.90 | EP | Z | C |
| BUS | 25 | 152832.90 | IP | Z | D |
| LIO | 25 | 152830.50 | IP | Z | D |
| LCR2 | 25 | 152833.90 | IP | Z | C |
| ICR | 25 | 152833.20 | IP | Z | D |
| URS | 25 | 152840.80 | EP | Z | |
| 5 Km al Noreste de Guácimo Limón, Costa Rica, Md= 4,0 | | | | | |
| SJS | 25 | 155454.20 | IP | Z | C |
| LCR2 | 25 | 155459.40 | IP | Z | D |
| ICR | 25 | 155456.70 | IP | Z | C |
| BUS | 25 | 155455.40 | IP | Z | D |
| LIO | 25 | 155447.80 | IP | Z | D |
| ACR | 25 | 155458.70 | IP | Z | C |
| | | 5514.00 | S | Z | |
| QCR | 25 | 155502.70 | EP | Z | + |
| FOR | 25 | 155512.70 | EP | Z | |
| VCR | 25 | 155516.80 | EP | Z | - |
| | | 5547.70 | S | Z | |
| 38 Km al Suroeste de Limón, Costa Rica, Md= 4,4 | | | | | |
| SJS | 25 | 195546.80 | IP | Z | D |
| | | 5553.90 | S | Z | |
| QCR | 25 | 195550.90 | EP | Z | C |
| VCR | 25 | 195604.30 | EP | Z | D |
| | | 5626.50 | S | Z | |
| ACR | 25 | 195557.30 | EP | Z | C |
| JCR | 25 | 195604.10 | EP | Z | D |
| | | 5626.80 | S | Z | |
| BUS | 25 | 195543.30 | IP | Z | D |
| LIO | 25 | 195543.00 | EP | Z | C |
| URS | 25 | 195541.20 | IP | Z | D |
| PRS | 25 | 195551.00 | EP | Z | |
| LCR2 | 25 | 195545.50 | IP | Z | D |
| ICR | 25 | 195543.05 | IP | Z | C |
| 3 Km al Noreste de Moravia de Chirripó Limón, Costa Rica, Md= 4,1 | | | | | |
| SJS | 25 | 202110.50 | IP | Z | D |
| | | 2117.10 | S | Z | |
| URS | 25 | 202105.30 | IP | Z | C |
| | | 2109.30 | S | Z | |

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Este list
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| EST | DIA | TIEMPO | FASE | COMP | POL |
|--|-----|-----------|------|------|-----|
| LCR2 | 25 | 202107.90 | IP | Z | C |
| ICR | 25 | 202108.80 | IP | Z | |
| PRS | 25 | 202113.10 | EP | Z | |
| 29 Km al Norte de San Isidro Pérez Zeledón, Costa Rica, Md= 4,1 | | | | | |
| SJS | 26 | 160633.00 | IP | Z | D |
| URS | 26 | 160627.75 | IP | Z | C |
| LCR2 | 26 | 160630.20 | IP | Z | C |
| | | 0636.00 | S | Z | |
| ICR | 26 | 160630.50 | IP | Z | C |
| PRS | 26 | 160635.90 | IP | Z | + |
| 16 Km al Noreste de Villa Mills, Cerro de La Muerte, Costa Rica, Md= 4,2 | | | | | |
| SJS | 26 | 180851.80 | IP | Z | C |
| URS | 26 | 180846.00 | IP | Z | D |
| | | 0856.00 | S | Z | |
| PRS | 26 | 180855.00 | IP | Z | |
| LCR2 | 26 | 180849.50 | IP | Z | D |
| ICR | 26 | 180848.10 | IP | Z | C |
| ACR | 26 | 180849.00 | IP | Z | D |
| FOR | 26 | 180904.80 | IP | Z | |
| BUS | 26 | 180845.40 | IP | Z | D |
| JCR | 26 | 180906.80 | IP | Z | D |
| QCR | 26 | 180852.10 | IP | Z | |
| LIO | 26 | 180841.90 | IP | Z | D |
| 42 Km al Suroeste de Limón, Costa Rica, Md= 4,5 | | | | | |
| SJS | 26 | 191201.30 | IP | Z | D |
| | | 1212.00 | S | Z | |
| ICR | 26 | 191158.00 | IP | Z | |
| LCR2 | 26 | 191200.20 | IP | Z | C |
| | | 1209.80 | S | Z | |
| URS | 26 | 191155.80 | IP | Z | C |
| PRS | 26 | 191205.80 | IP | Z | D |
| QCR | 26 | 191204.10 | IP | Z | |
| | | 1218.10 | S | Z | |
| BUS | 26 | 191157.00 | IP | Z | |
| LIO | 26 | 191151.00 | IP | Z | |
| FOR | 26 | 191214.10 | IP | Z | |
| | | 1235.80 | S | Z | |
| ACR | 26 | 191209.00 | IP | Z | |
| | | 1227.00 | S | Z | |
| 23 Km al Sureste de la Suiza de Turrialba, Costa Rica, Md= 4,0 | | | | | |
| SJS | 26 | 224949.70 | IP | Z | D |
| | | 5005.60 | S | Z | |
| JCR | 26 | 225006.00 | IP | Z | |
| | | 5037.20 | S | Z | |
| QCR | 26 | 224951.50 | IP | Z | |
| | | 5010.50 | S | Z | |
| BUS | 26 | 224945.00 | IP | Z | |
| LIO | 26 | 224936.10 | IP | Z | |
| FOR | 26 | 225001.50 | IP | Z | |
| ACR | 26 | 224948.20 | IP | Z | |
| | | 5003.00 | S | Z | |
| LCR2 | 26 | 224948.60 | IP | Z | C |

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ABRIL 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|---|-----|----------------------------|------|------|-----|
| | | 5003.30 | S | Z | |
| ICR | 26 | 224946.60 | IP | Z | C |
| PRS | 26 | 224954.05 | IP | Z | |
| URS | 26 | 224944.50 | IP | Z | C |
| | | 4956.60 | S | Z | |
| 5 Km al Sureste de Cahuita Limón, Costa Rica, Md= 4,2 | | | | | |
| SJS | 26 | 232113.30 | IP | Z | D |
| ACR | 26 | 232124.50 | IP | Z | D |
| FOR | 26 | 232123.00 | IP | Z | D |
| BUS | 26 | 232112.00 | IP | Z | D |
| QCR | 26 | 232118.10 | IP | Z | C |
| JCR | 26 | 232130.00 | IP | Z | C |
| | | 2153.70 | S | Z | |
| LIO | 26 | 232105.00 | IP | Z | C |
| URS | 26 | 232109.15 | IP | Z | D |
| LCR2 | 26 | 232113.10 | IP | Z | D |
| ICR | 26 | 232109.40 | IP | Z | C |
| PRS | 26 | 232117.60 | IP | Z | C |
| 5 Km al Suroeste de Matina Limón, Costa Rica, Md= 4,0 | | | | | |
| SJS | 27 | 054257.85 ^{57.9} | IP | Z | D |
| ICR | 27 | 054253.95 ^{57.0} | IP | Z | D |
| LCR2 | 27 | 054257.80 ^{57.9} | IP | Z | D |
| URS | 27 | 054253.90 ^{57.8} | IP | Z | D |
| PRS | 27 | 054302.30 ^{02.40} | IP | Z | C |
| QCR | 27 | 054303.50 ^{03.20} | IP | Z | C |
| LIO | 27 | 054249.90 ^{49.50} | IP | Z | C |
| JCR | 27 | 054314.90 ^{14.15} | IP | Z | C |
| BUS | 27 | 054257.10 ^{56.8} | IP | Z | D |
| ACR | 27 | 054309.00 | IP | Z | D |
| 3 Km al Suroeste de Matina Limón, Costa Rica, Md= 5,2 | | | | | |
| VCR | | 4314.50 | IP | Z | C |
| SJS | 27 | 082605.75 | IP | Z | D |
| QCR | 27 | 082605.30 | IP | Z | D |
| ICR | 27 | 082602.90 ^{02.2} | IP | Z | D |
| LCR2 | 27 | 082604.00 ^{03.8} | IP | Z | C |
| PRS | 27 | 082609.00 | IP | Z | C |
| LIO | 27 | 082554.70 ^{54.5} | IP | Z | D |
| JCR | 27 | 082620.00 ^{19.6} | IP | Z | C |
| | | 2653.00 ^{56.1} | S | Z | |
| BUS | 27 | 082559.20 ^{59.00} | IP | Z | D |
| FOR | 27 | 082618.80 | IP | Z | |
| 35 Km al Suroeste de Guabito Limón, Costa Rica, Md= 4,6 | | | | | |
| VCR | | 19.80 | IP | Z | C |
| SJS | 27 | 130523.25 | IP | Z | D |
| ACR | 27 | 130530.80 ^{30.3} | IP | Z | D |
| FOR | 27 | 130536.00 | IP | Z | C |
| BUS | 27 | 130519.00 ^{18.7} | IP | Z | C |
| JCR | 27 | 130540.00 ^{39.9} | IP | Z | C |
| LIO | 27 | 130515.90 ^{15.1} | IP | Z | C |
| QCR | 27 | 130526.00 ^{26.4} | IP | Z | D |
| PRS | 27 | 130527.20 | IP | Z | C |
| URS | 27 | 130518.30 | IP | Z | C |
| LCR2 | 27 | 130522.15 | IP | Z | C |
| ICR | 27 | 130519.80 | IP | Z | C |

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ABRIL 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|---|-----|-----------|------|------|-----|
| 40 Km al Suroeste de Limón, Costa Rica, Md= 4,8 | | | | | |
| SJS | 27 | 225858.70 | IP | Z | D |
| URS | 27 | 225853.50 | IP | Z | C |
| ICR | 27 | 225855.20 | IP | Z | C |
| PRS | 27 | 225903.10 | IP | Z | C |
| QCR | 27 | 225903.00 | IP | Z | D |
| | | 5916.00 | S | Z | |
| JCR | 27 | 225916.10 | IP | Z | C |
| | | 5939.00 | S | Z | |
| BUS | 27 | 225855.20 | IP | Z | C |
| FOR | 27 | 225911.00 | IP | Z | C |
| ACR | 27 | 225908.50 | IP | Z | C |
| LIO | 27 | 225853.00 | IP | Z | |
| 11 Km al Noreste de Moravia de Chirripó, Limón, Costa Rica, Md= 4,0 | | | | | |
| SJS | 28 | 180609.80 | IP | Z | C |
| ICR | 28 | 180606.50 | IP | Z | C |
| URS | 28 | 180604.30 | IP | Z | C |
| LCR2 | 28 | 180607.90 | IP | Z | C |
| ACR | 28 | 180600.00 | IP | Z | C |
| | | 0612.00 | S | Z | |
| BUS | 28 | 180603.20 | IP | Z | D |
| | | 0617.10 | S | Z | |
| LIO | 28 | 180557.50 | IP | Z | |
| JCR | 28 | 180628.00 | EP | Z | |
| FOR | 28 | 180622.10 | IP | Z | D |
| 33 Km al suroeste de Guabito, Sixaola Limón, Costa Rica Md= 4,0 | | | | | |
| SJS | 29 | 124955.00 | IP | Z | C |
| QCR | 29 | 124951.50 | EP | Z | |
| | | 5004.10 | S | Z | |
| JCR | 29 | 125001.90 | IP | Z | D |
| ACR | 29 | 125004.30 | IP | Z | C |
| LCR2 | 29 | 124953.90 | IP | Z | D |
| ICR | 29 | 124951.30 | IP | Z | D |
| | | 4958.80 | S | Z | |
| URS | 29 | 124950.00 | IP | Z | D |
| | | 4956.00 | S | Z | |
| 5 Km al suroeste del Lago Ayil, Chirripo Limón, Costa Rica, Md= 4,7 | | | | | |
| SJS | 29 | 135355.00 | IP | Z | D |
| | | 5405.20 | S | Z | |
| URS | 29 | 135349.80 | IP | Z | C |
| | | 5356.20 | S | Z | |
| ICR | 29 | 135351.00 | IP | Z | C |
| LCR2 | 29 | 135353.80 | IP | Z | C |
| VCR | 29 | 135419.00 | IP | Z | |
| LIO | 29 | 135343.00 | IP | Z | |
| QCR | 29 | 135357.00 | IP | Z | |
| | | 5412.00 | S | Z | |
| BUS | 29 | 135350.00 | IP | Z | |
| FOR | 29 | 135407.00 | IP | Z | |
| ACR | 29 | 135357.00 | IP | Z | |
| 28 Km al suroeste de Limón, Costa Rica, Md= 4,2 | | | | | |

ABRIL 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|--------------------------|------|------|-----|
| SJS | 29 | 224522.20 | IP | Z | D |
| LCR2 | 29 | 224520.60 | IP | Z | D |
| PRS | 29 | 224526.30 ³⁴³ | IP | Z | + C |
| JCR | 29 | 224538.10 | IP | Z | C |
| FOR | 29 | 224535.00 | IP | Z | |
| VCR | 29 | 224545.90 | IP | Z | |
| QCR | 29 | 224523.90 | IP | Z | D |
| ICR | 29 | 224519.00 ³⁰ | IP | Z | C |
| BUS | 29 | 224516.80 | IP | Z | |
| URS | 29 | 224517.05 | IP | Z | C |
| LIO | 29 | 224509.50 | IP | Z | D |
| ACR | 29 | 224519.00 | IP | Z | |

9 Km al suroeste de Bribri Limón, Costa Rica, Md= 4,9

| | | | | | |
|------|----|--------------------------|----|---|---|
| SJS | 29 | 224904.00 | IP | Z | D |
| | | 4919.30 | S | Z | |
| PRS | 29 | 224908.00 | IP | Z | C |
| | | 4926.00 | S | Z | |
| LCR2 | 29 | 224902.20 | IP | Z | C |
| LIO | 29 | 224851.00 | IP | Z | |
| BUS | 29 | 224858.00 | IP | Z | |
| URS | 29 | 224858.80 | IP | Z | C |
| ACR | 29 | 224901.00 | IP | Z | |
| QCR | 29 | 224905.10 | IP | Z | D |
| FOR | 29 | 224915.41 | IP | Z | |
| JCR | 29 | 224919.20 ¹⁹⁹ | IP | Z | D |
| VCR | 29 | 224926.00 | IP | Z | |

10 Km al Suroeste de Bribri Limón, Costa Rica, Md= 4,6

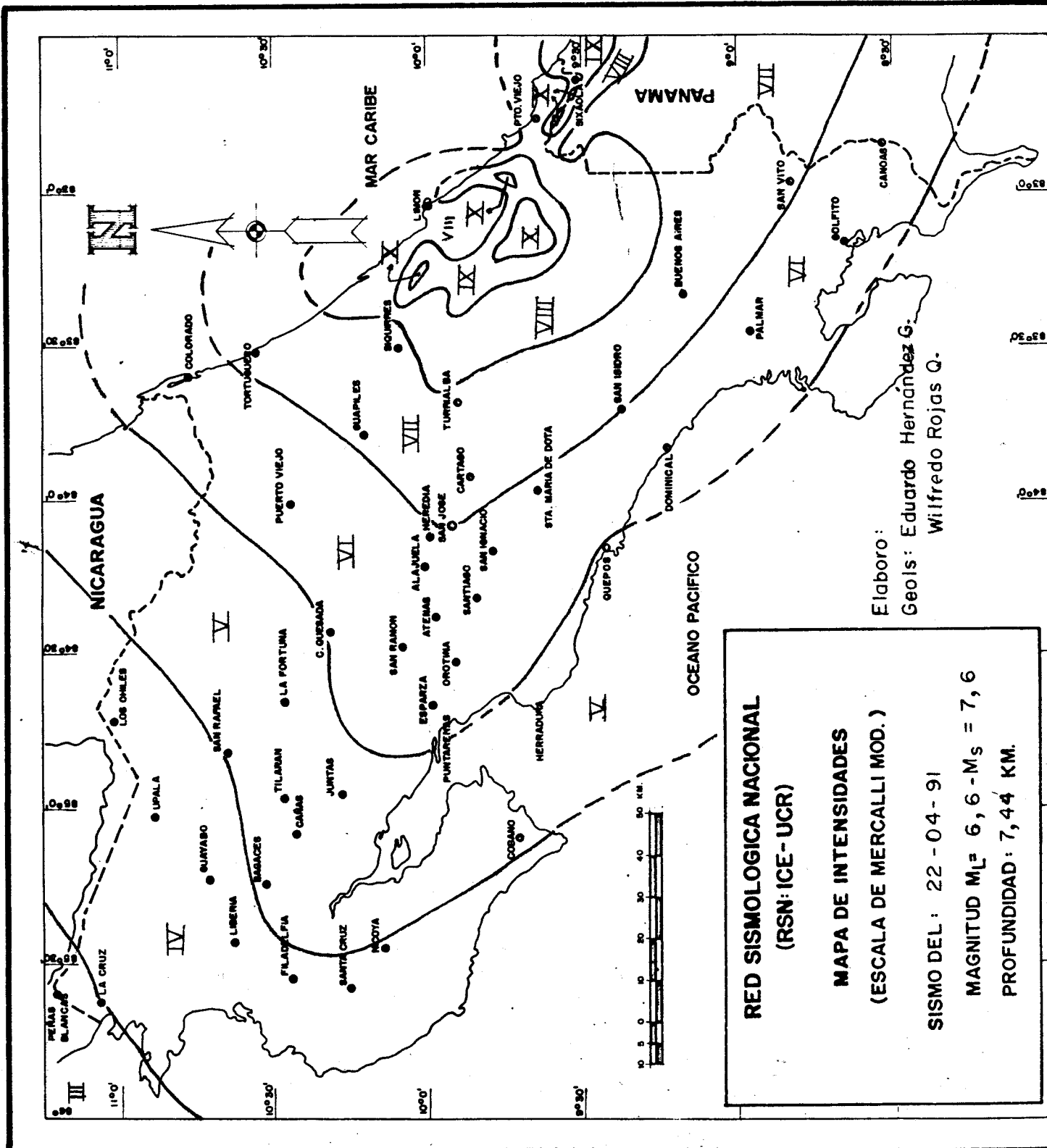
| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 29 | 225941.00 | IP | Z | C |
| JCR | 29 | 225957.80 | IP | Z | |
| VCR | 29 | 230006.00 | IP | Z | |
| ACR | 29 | 225939.00 | IP | Z | |
| BUS | 29 | 225936.60 | IP | Z | |
| QCR | 29 | 225943.20 | IP | Z | |
| | | 230003.00 | S | Z | |
| LIO | 29 | 225929.20 | IP | Z | |
| URS | 29 | 225938.00 | IP | Z | C |
| | | 5949.00 | S | Z | |
| ICR | 29 | 225939.00 | EP | Z | |
| LCR2 | 29 | 225941.00 | IP | Z | D |
| PRS | 29 | 225946.10 | IP | Z | |

2 Km al Este de Bribri Limón, Costa Rica, Md= 4,2

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 29 | 021737.20 | IP | Z | D |
| QCR | 29 | 021730.00 | IP | Z | D |
| VCR | 29 | 021748.10 | IP | Z | C |
| FOR | 29 | 021747.20 | IP | Z | C |
| BUS | 29 | 021731.00 | IP | Z | C |
| LIO | 29 | 021736.00 | IP | Z | D |
| ACR | 29 | 021715.00 | IP | Z | D |
| JCR | 29 | 021740.10 | IP | Z | D |
| ICR | 29 | 021737.10 | IP | Z | C |
| PRS | 29 | 021736.80 | IP | Z | C |
| URS | 29 | 021734.50 | IP | Z | C |
| | | 1743.90 | S | Z | |

ABRIL 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|---|-----|-----------|------|------|-----|
| LCR2 | 29 | 021733.75 | IP | Z | + |
| Fractura de Panamá, Md= 4,8 | | | | | |
| SJS | 30 | 031528.20 | IP | Z | D |
| | | 1545.00 | S | Z | |
| BUS | 30 | 031523.00 | IP | Z | C |
| FOR | 30 | 031540.50 | EP | Z | |
| VCR | 30 | 031552.00 | EP | Z | |
| QCR | 30 | 031530.00 | IP | Z | |
| LIO | 30 | 031515.20 | IP | Z | D |
| ACR | 30 | 031526.10 | IP | Z | D |
| | | 1542.00 | S | Z | |
| JCR | 30 | 031544.80 | IP | Z | D |
| | | 1621.00 | S | Z | |
| PRS | 30 | 031532.10 | IP | Z | C |
| | | 1551.40 | S | Z | |
| ICR | 30 | 031525.20 | IP | Z | C |
| | | 1539.00 | S | Z | |
| URS | 30 | 031523.10 | IP | Z | C |
| | | 1536.00 | S | Z | |
| 10 Km al noroeste de Bribri Limón, Costa Rica, Md= 4,2 | | | | | |
| SJS | 30 | 203150.75 | IP | Z | D |
| URS | 30 | 203145.90 | IP | Z | C |
| ICR | 30 | 203146.20 | IP | Z | C |
| | | 3150.20 | S | Z | |
| LCR2 | 30 | 203147.95 | IP | Z | C |
| | | 3153.95 | S | Z | |
| QCR | 30 | 203150.00 | IP | Z | |
| ACR | 30 | 203157.50 | IP | Z | |
| | | 3221.50 | S | Z | |
| LIO | 30 | 203152.00 | IP | Z | |
| BUS | 30 | 203143.00 | IP | Z | |
| 22 Km al noreste de San Isidro Pérez Zeledón, Costa Rica, Md= 4,0 | | | | | |



**RED SISMOLÓGICA NACIONAL
(RSN:ICE-UCR)**

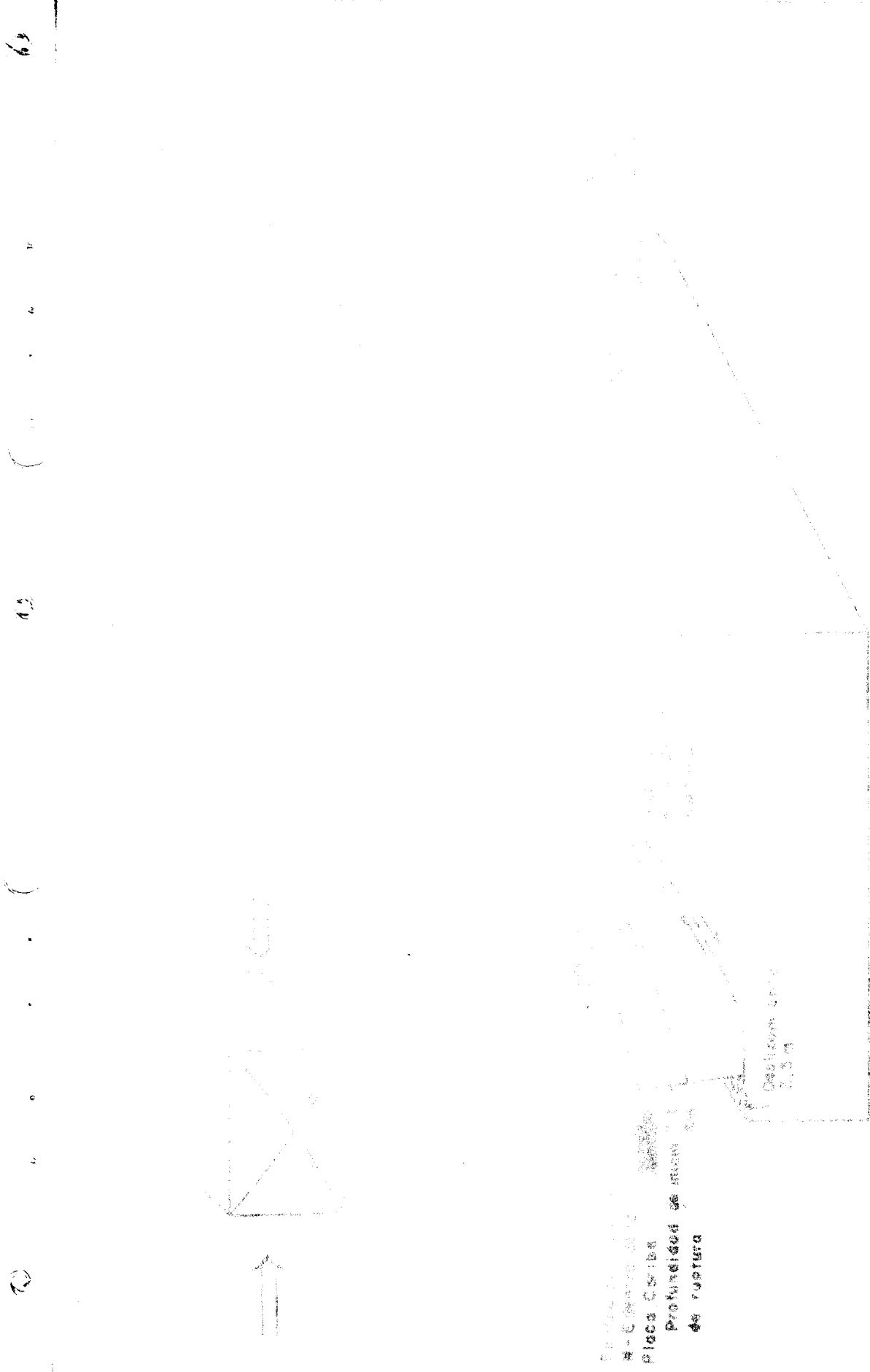
**MAPA DE INTENSIDADES
(ESCALA DE MERCALLI MOD.)**

SISMO DEL: 22 - 04 - 91

MAGNITUD $M_L = 6,6 - M_S = 7,6$

PROFUNDIDAD: 7,44 KM.

Elaboro:
Geols: Eduardo Hernández G.
Wilfredo Rojas Q.



BLOQUE DIAGRAMA CON LA INTERFERENCIA DEL PROBABLE MODELO DE RUPTURA DEL PERIODO DE TIEMPO, 22 de abril de 1991.

ELABORADO:

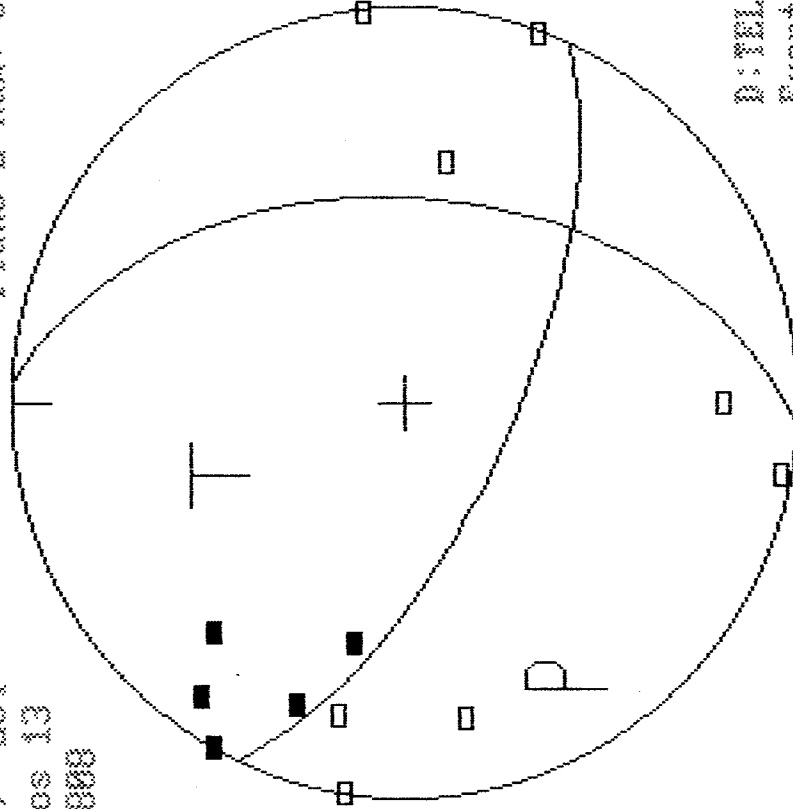
Geol: Wilfredo Rojas G.

Geol: Eduardo Hernandez G.

MECANISMO FOCAL SIMPLE, CAMPO CERCANO
 CON LOS PRIMEROS ARRIBOS, PERIODO CORTO
 TERREMOTO DEL ATLANTICO, 22 DE ABRIL DE 1991. Ms. 7,5

Tension (Buz) = 42 (Az) = 339
 Presion (Buz) = 78 (Az) = 234
 Num. est = 14 Aciertos 13
 Porc = .9285714030265888

Plano 1 Rum: 115 Buz: 68 Dez: 47
 Plano 2 Rum: 3 Buz: 47 Dez: 31



LISTA DE ESTACIONES USADAS

| EST. | POL. | Ain | AZ |
|------|------|-----|-----|
| LJO | D | 87 | 191 |
| BUS | D | 89 | 84 |
| URS | D | 89 | 110 |
| ICR | C | 90 | 299 |
| LCR | D | 90 | 279 |
| SJS | D | 70 | 290 |
| ACR | D | 70 | 180 |
| QCR | D | 70 | 259 |
| PRS | D | 70 | 282 |
| SRA | C | 70 | 290 |
| VCR | C | 52 | 282 |
| UPA | D | 52 | 100 |
| TAC | C | 80 | 305 |
| NIC | C | 65 | 310 |

D: FELLIRE
 Evento: 0 0

Elaborado por:

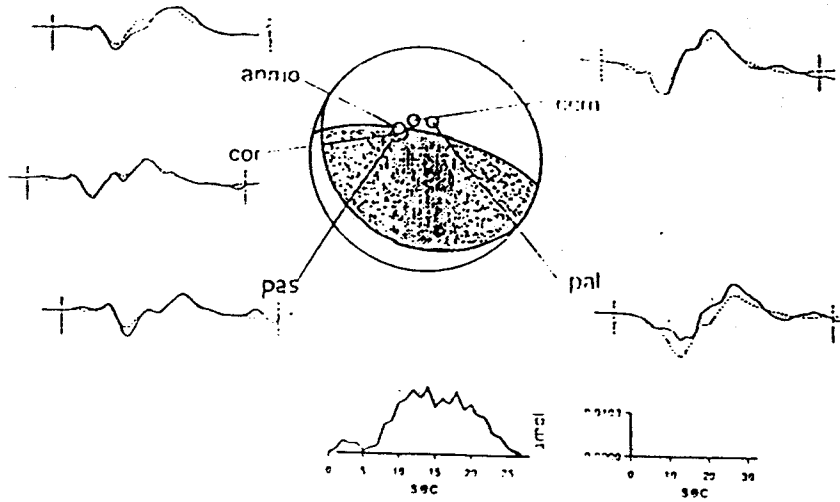
GEOL. WILFREDO ROJAS QUESADA

RED SISMOLÓGICA NACIONAL
 (R S N)

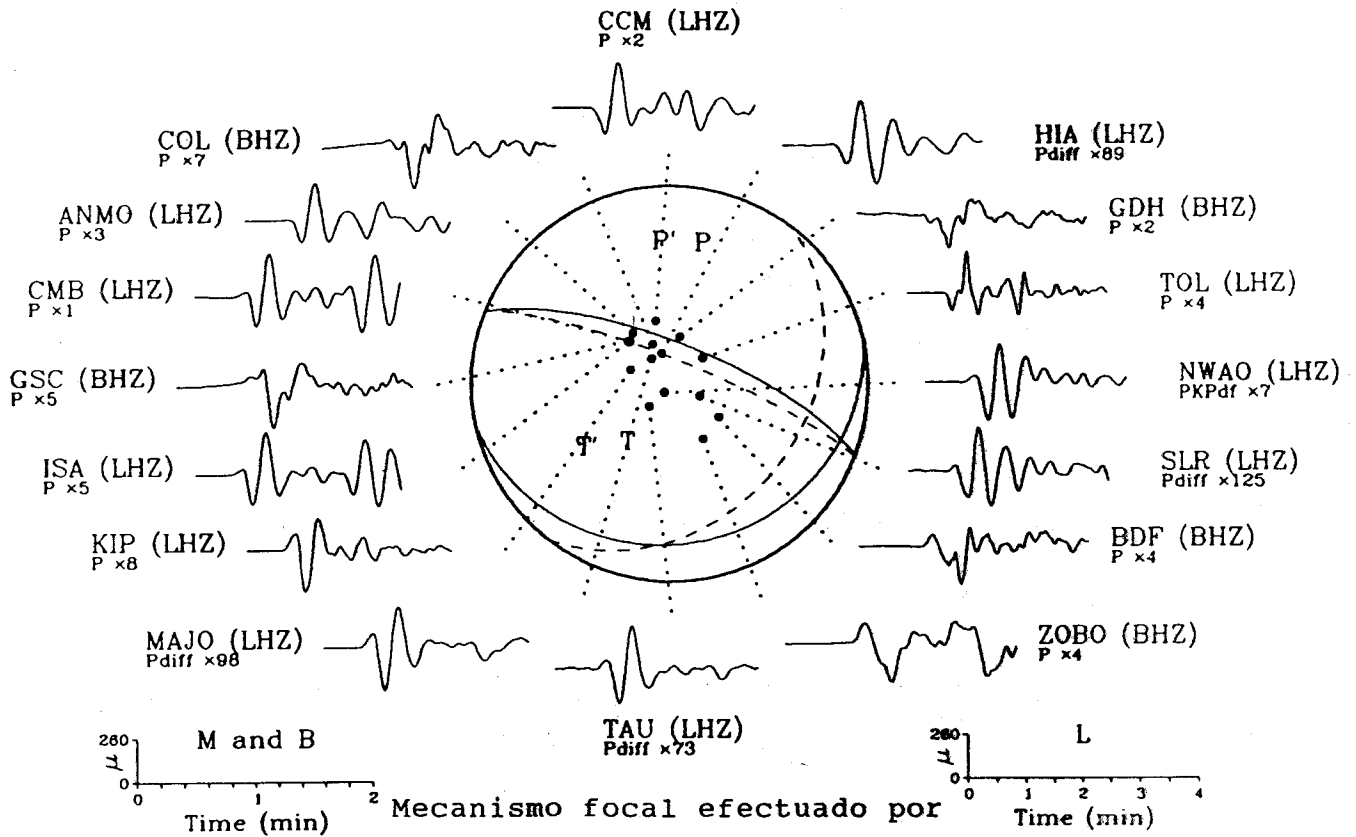
Depto. de Geología (ICE)
 Escuela de Geología (UCR)

Figura Nº 6

Mecanismo focal efectuado por Klaus. H. Jacob y Javier Pacheco
 del Observatorio Geológico Lamont_Doherty, Universidad de Columbia,
 Palisades NY, USA



22 April 1991 21:56:51.82
 Costa Rica



Mecanismo focal efectuado por
 National Earthquake Information Center

U.S. Department Of Interior

GEOLOGICAL SURVEY

RED SISMOLOGICA NACIONAL RSN: (ICE-UCR)
CURVA DE EVENTOS DEL MES DE ABRIL 91

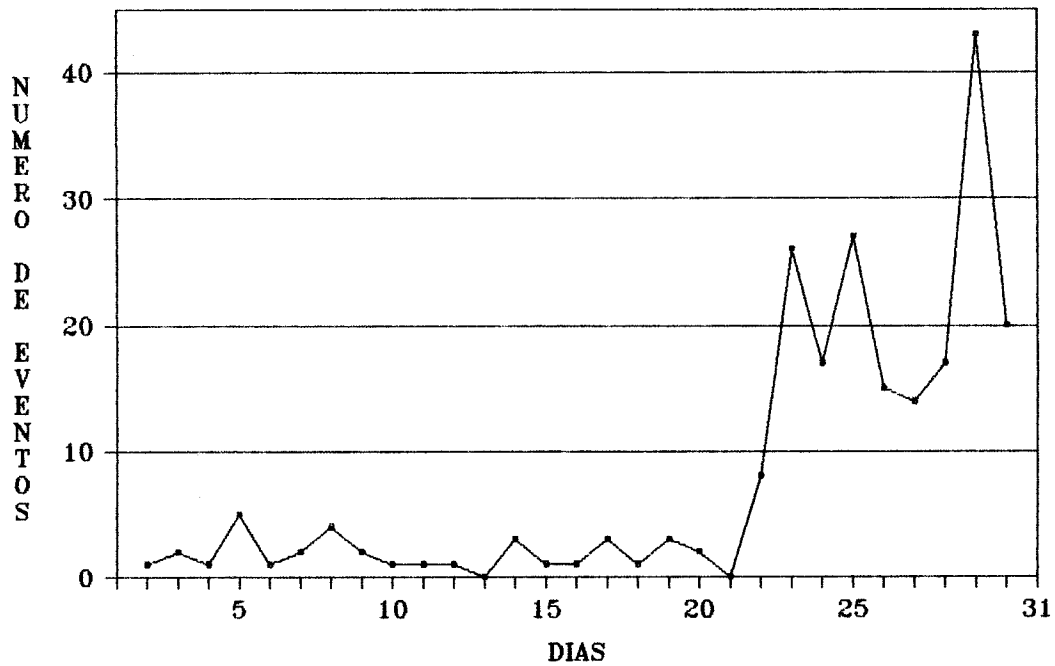
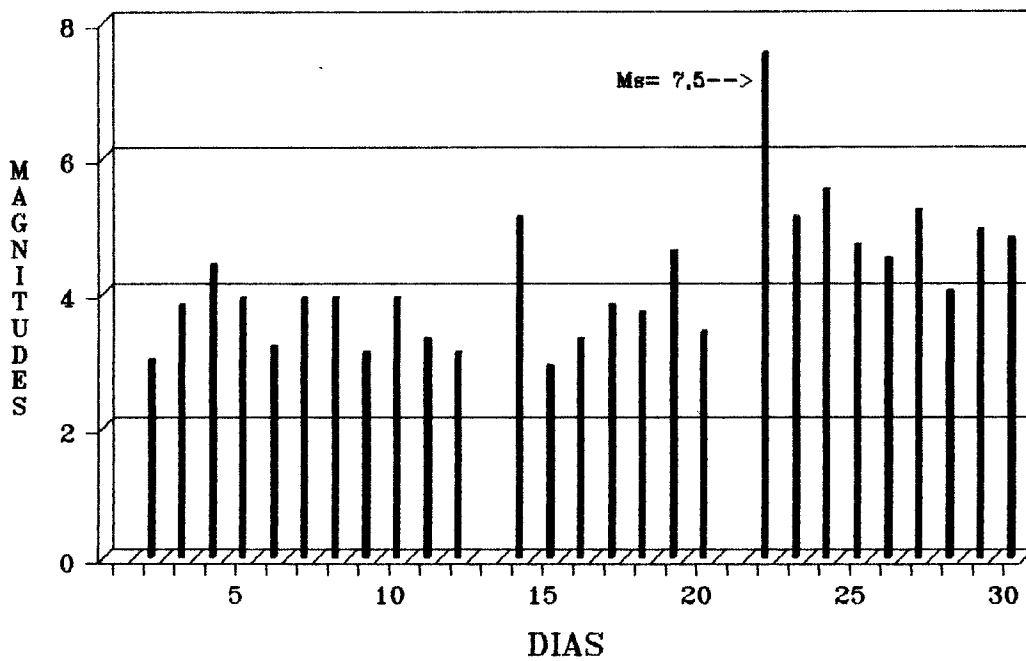


FIGURA DE LOS EVENTOS LOCALIZADOS

MAGNITUDES DE LOS EVENTOS LOCALIZADOS
DURANTE EL MES (ABRIL 91)



PLOTEO DE LOS EVENTOS MAYORES POR DIA

PGM ANASIS Ver 2.0

Diseño:

Guillermo A Avila R

FEC m:02-04-1991

FEC M:30-04-1991

GMT=00h-24h

LAT= 7.50°-11.50°

LON=82.50°-86.50°

PRF= 0.0- 999.0 Km

MAG= 0.0- 9.9

SIMBOLGIA:

M=3 □ M=4 ◇ M=5 +

M=6 △ M=7 ▽ M=8 ○

STÁ *

BASE.:ABR91

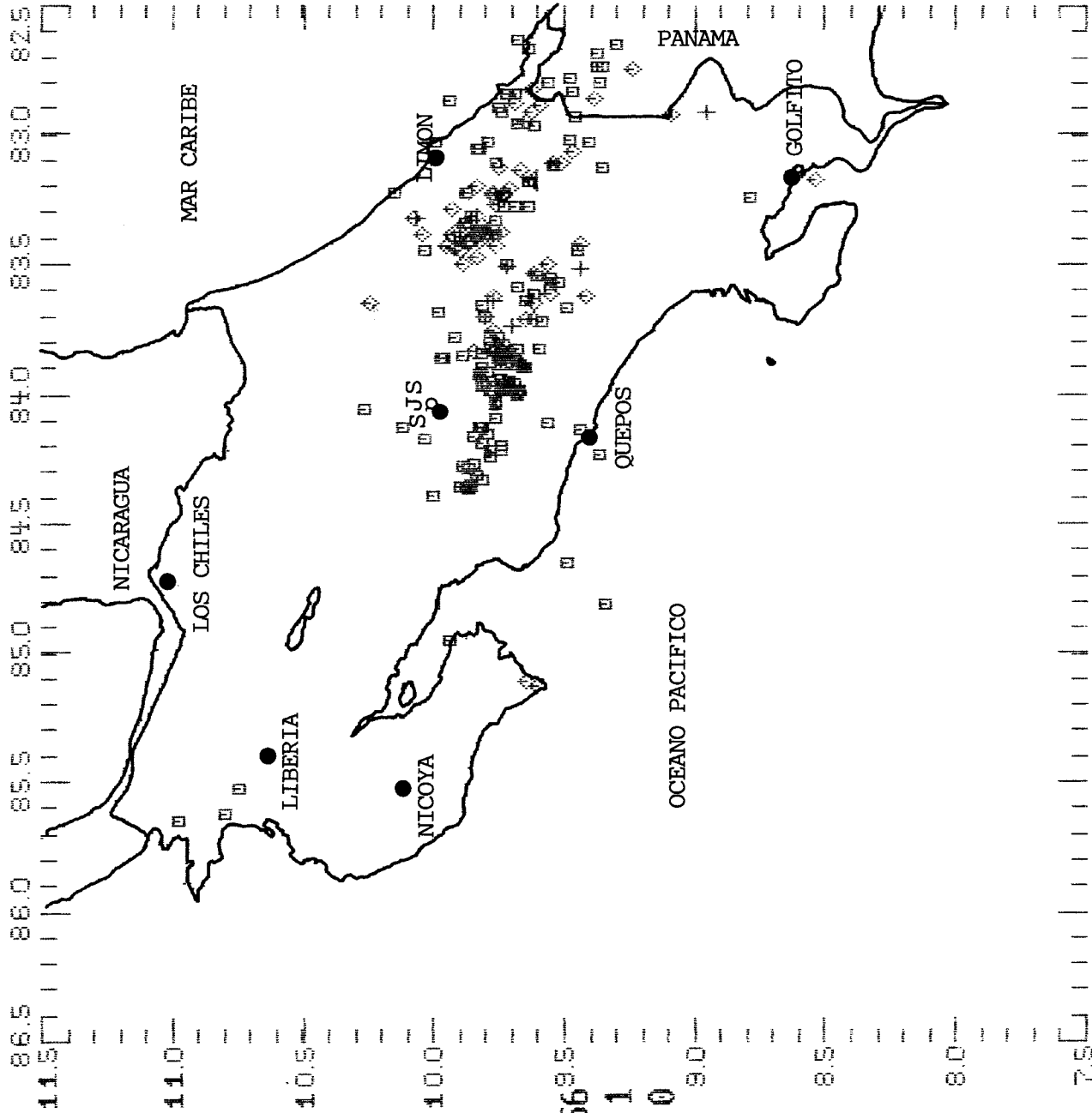
N SIS: 217

M<3.9: 153 4<M<5: 56^{9.5}

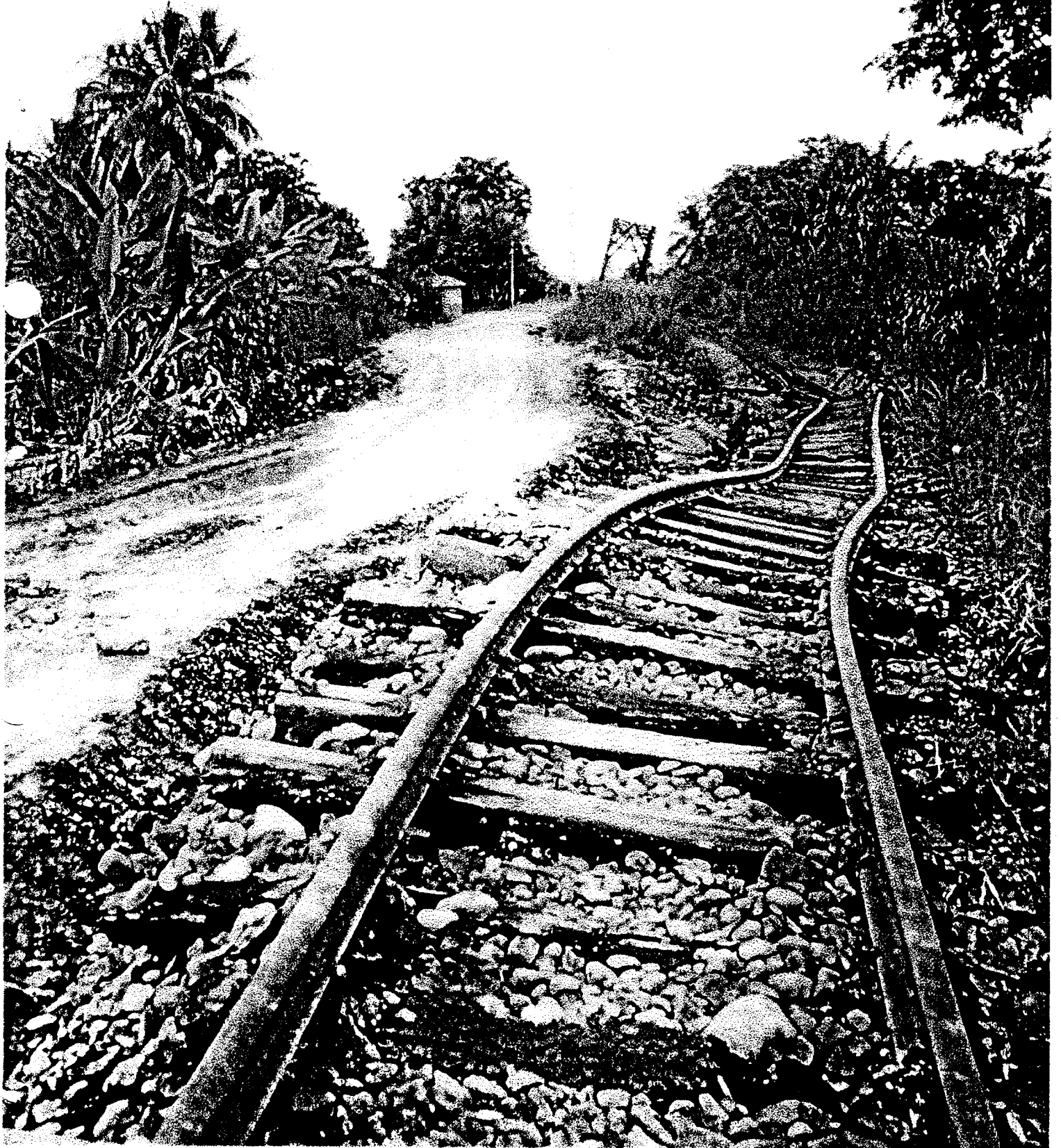
5<M<6: 7 6<M<7: 1

7<M<8: 0 M≥8 : 0

RED SISMOLOGICA NACIONAL, ICE-UCR PERFILES



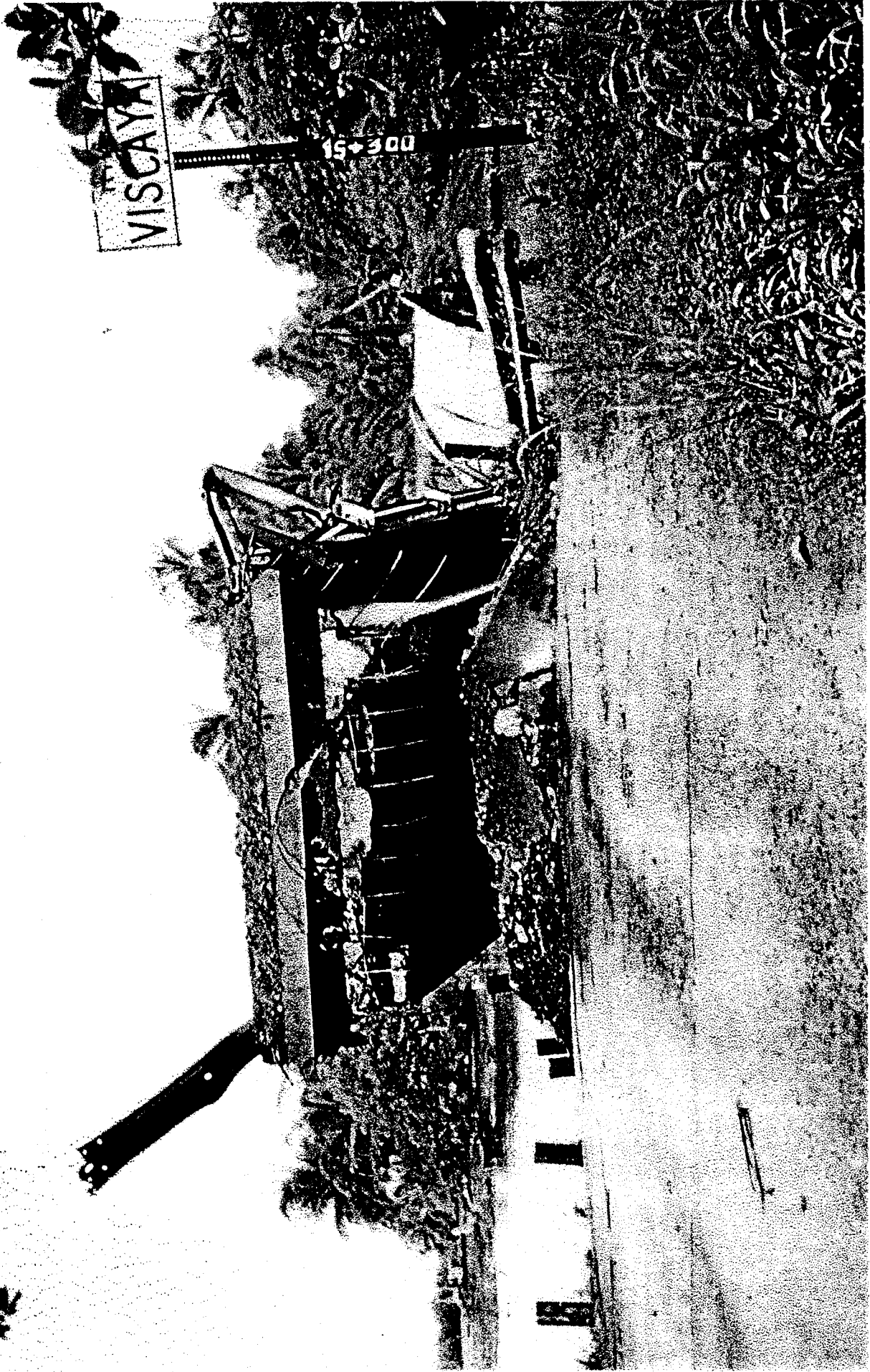
RED SISMOLOGICA NACIONAL
(ICE - UCR)



TERREMOTO 22 ABRIL 1991
CORT. EDUARDO HERNANDEZ G.

Foto: Ing. Hugo Aguilar
(BANANITO SUR)

RED SISMOLOGICA NACIONAL (ICE - UCR)



TERREMOTO 22 ABRIL 1991
CORT. EDUARDO HERNANDEZ G

Foto : Ing. Hugo Aguilar
(PUENTE RIO VISCAYA)

PARAMETROS DE LOS EVENTOS LOCALIZADOS

PARTE A
MAYO 1991

| No | DIA | T. ORIGIN | LAT.N | LONG.W | DEPTH | MAG | NO | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|----------|-------|-----|----|----|-----|------|------|-------|
| 001 | 01 | 002428.00 | 9251.31 | 83225.75 | 12.54 | 3.0 | 16 | 6 | 88 | 0.46 | 2.2 | 3.2 |
| 002 | 01 | 002536.00 | 9251.50 | 83228.13 | 11.62 | 2.8 | 15 | 6 | 80 | 0.29 | 1.2 | 2.2 |
| 003 | 01 | 011152.00 | 9230.30 | 83217.53 | 18.41 | 3.0 | 15 | 38 | 187 | 0.39 | 2.4 | 14.6 |
| 004 | 01 | 012106.00 | 9235.01 | 82259.42 | 30.88 | 3.2 | 15 | 24 | 110 | 0.50 | 2.7 | 4.7 |
| 005 | 01 | 012541.00 | 9242.37 | 84216.38 | 12.49 | 3.5 | 7 | 17 | 263 | 0.05 | 0.8 | 2.1 |
| 006 | 01 | 024641.66 | 9226.53 | 82259.44 | 6.19 | 3.4 | 19 | 32 | 209 | 0.40 | 2.3 | 2.5 |
| 007 | 01 | 024900.50 | 9245.61 | 82256.53 | 17.89 | 2.4 | 11 | 11 | 142 | 0.42 | 4.1 | 3.9 |
| 008 | 01 | 032931.00 | 9246.71 | 83220.81 | 8.80 | 3.0 | 17 | 12 | 140 | 0.24 | 1.1 | 5.0 |
| 009 | 01 | 034623.00 | 9239.04 | 83235.85 | 9.75 | 3.6 | 13 | 21 | 148 | 0.32 | 1.5 | 6.2 |
| 010 | 01 | 043513.00 | 9248.45 | 83219.25 | 21.06 | 3.1 | 15 | 14 | 136 | 0.27 | 1.5 | 3.0 |
| 011 | 01 | 051004.00 | 9247.10 | 83202.09 | 15.12 | 3.2 | 17 | 10 | 141 | 0.37 | 2.6 | 2.5 |
| 012 | 01 | 055223.00 | 9247.97 | 83218.99 | 12.00 | 2.9 | 16 | 15 | 137 | 0.70 | 3.4 | 7.9 |
| 013 | 01 | 070042.00 | 9233.25 | 83207.03 | 2.90 | 2.9 | 9 | 36 | 249 | 0.19 | 4.3 | 5.3 |
| 014 | 01 | 070314.00 | 9243.99 | 82250.20 | 23.50 | 3.9 | 16 | 38 | 235 | 0.28 | 11.4 | 2.2 |
| 015 | 01 | 081427.00 | 9253.61 | 83210.26 | 20.34 | 2.7 | 11 | 13 | 124 | 0.29 | 3.3 | 3.4 |
| 016 | 01 | 084211.71 | 9224.07 | 82240.61 | 5.64 | 2.7 | 9 | 26 | 270 | 0.45 | 0.9 | 1.1 |
| 017 | 01 | 090925.00 | 9254.87 | 83253.87 | 8.90 | 3.6 | 10 | 11 | 137 | 0.42 | 2.2 | 5.9 |
| 018 | 01 | 091125.00 | 9253.25 | 83259.90 | 10.60 | 3.6 | 9 | 11 | 130 | 0.38 | 2.5 | 5.5 |
| 019 | 01 | 092701.00 | 9245.62 | 84215.37 | 14.50 | 3.9 | 14 | 24 | 123 | 0.32 | 2.1 | 2.7 |
| 020 | 01 | 093901.10 | 9242.39 | 83218.85 | 24.97 | 2.9 | 12 | 18 | 153 | 0.38 | 2.6 | 5.5 |
| 021 | 01 | 104710.00 | 9246.26 | 83219.58 | 19.07 | 3.2 | 15 | 15 | 142 | 0.37 | 1.8 | 5.5 |
| 022 | 01 | 111243.00 | 9239.84 | 83237.01 | 4.90 | 3.5 | 11 | 22 | 174 | 0.27 | 2.1 | 2.3 |
| 023 | 01 | 112253.00 | 9235.09 | 83237.65 | 19.85 | 3.5 | 11 | 15 | 170 | 0.31 | 2.7 | 4.7 |
| 024 | 01 | 124421.00 | 9251.85 | 83220.91 | 7.12 | 3.1 | 13 | 13 | 125 | 0.45 | 2.3 | 4.4 |
| 025 | 01 | 131355.00 | 9227.24 | 82248.32 | 33.92 | 3.0 | 10 | 27 | 235 | 0.23 | 2.6 | 3.0 |
| 026 | 01 | 131953.00 | 9230.46 | 83219.10 | 36.28 | 2.6 | 10 | 36 | 197 | 0.29 | 2.9 | 5.0 |
| 027 | 01 | 135659.00 | 9247.53 | 83219.42 | 18.44 | 3.0 | 15 | 14 | 83 | 0.49 | 2.5 | 7.5 |
| 028 | 01 | 141538.00 | 9245.60 | 82249.32 | 23.75 | 3.1 | 15 | 3 | 190 | 0.51 | 3.8 | 2.7 |
| 029 | 01 | 141742.00 | 9236.80 | 82254.43 | 13.64 | 3.2 | 16 | 14 | 110 | 0.42 | 3.9 | 5.3 |
| 030 | 01 | 144850.00 | 9241.65 | 82255.05 | 5.06 | 3.3 | 17 | 8 | 92 | 0.25 | 1.6 | 1.6 |
| 031 | 01 | 150213.00 | 9242.86 | 82253.75 | 15.63 | 3.1 | 17 | 6 | 99 | 0.62 | 4.3 | 3.8 |
| 032 | 01 | 161708.00 | 9254.41 | 83210.24 | 22.72 | 2.7 | 14 | 12 | 131 | 0.24 | 1.7 | 2.0 |
| 033 | 01 | 164350.00 | 9248.19 | 83219.01 | 3.40 | 3.0 | 16 | 15 | 86 | 0.38 | 1.7 | 2.7 |
| 034 | 01 | 165048.00 | 9251.57 | 83216.44 | 2.50 | 2.7 | 15 | 20 | 103 | 0.41 | 2.3 | 3.1 |
| 035 | 01 | 235852.00 | 9237.22 | 83234.46 | 11.00 | 4.1 | 16 | 34 | 104 | 0.37 | 2.8 | 5.5* |
| 036 | 02 | 012015.33 | 9237.82 | 84218.45 | 34.20 | 3.4 | 7 | 35 | 206 | 0.31 | 6.7 | 5.2 |
| 037 | 02 | 070314.00 | 9243.99 | 82250.20 | 33.51 | 3.0 | 7 | 39 | 303 | 0.28 | 11.4 | 2.2* |
| 038 | 02 | 070506.46 | 9233.43 | 83245.59 | 52.99 | 4.8 | 5 | 0 | 170 | 0.36 | 7.3 | 13.4* |
| 039 | 02 | 090623.30 | 10205.55 | 84203.36 | 44.93 | 4.1 | 4 | 17 | 297 | 0.16 | 7.9 | 3.2* |
| 040 | 02 | 090925.36 | 9254.87 | 83258.87 | 8.90 | 2.3 | 4 | 8 | 137 | 0.42 | 2.2 | 5.9* |
| 041 | 02 | 091125.47 | 9253.25 | 83259.90 | 10.64 | 2.1 | 5 | 8 | 130 | 0.38 | 2.5 | 5.1* |
| 042 | 02 | 092700.59 | 9245.62 | 84215.37 | 14.51 | 2.4 | 8 | 28 | 123 | 0.32 | 2.1 | 2.7* |
| 043 | 02 | 102740.80 | 9256.40 | 83221.41 | 2.90 | 3.3 | 4 | 36 | 257 | 0.30 | 4.2 | 8.0* |
| 044 | 02 | 111243.16 | 9239.84 | 83237.01 | 4.93 | 3.5 | 6 | 20 | 174 | 0.27 | 2.1 | 2.3* |
| 045 | 02 | 172926.00 | 9240.07 | 82255.53 | 34.47 | 2.8 | 10 | 10 | 124 | 0.57 | 3.3 | 5.6 |

MAYO 1991

| No | DIA | T. ORIGIN | LAT.N | LONG.W | DEPTH | MAG | NO | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|----------|-------|------|----|----|-----|------|------|-------|
| 046 | 02 | 174225.00 | 9224.09 | 83201.48 | 37.26 | 3.1 | 12 | 37 | 133 | 0.21 | 1.2 | 1.5 |
| 047 | 02 | 174618.00 | 9242.04 | 82252.39 | 31.46 | 3.5 | 13 | 14 | 143 | 0.60 | 4.2 | 5.2 |
| 048 | 02 | 181545.00 | 9236.49 | 82251.72 | 28.46 | 3.3 | 11 | 17 | 115 | 0.39 | 3.3 | 6.0 |
| 049 | 02 | 190426.00 | 9234.70 | 82244.66 | 44.20 | 2.4 | 8 | 17 | 145 | 0.22 | 3.0 | 2.8 |
| 050 | 02 | 193334.00 | 9225.88 | 82246.98 | 5.74 | 3.1 | 6 | 28 | 172 | 0.15 | 3.0 | 5.7 |
| 051 | 02 | 195119.00 | 9224.51 | 83200.77 | 38.82 | 3.4 | 13 | 35 | 134 | 0.35 | 1.9 | 1.6 |
| 052 | 02 | 211426.00 | 9247.81 | 83218.75 | 18.36 | 2.9 | 11 | 32 | 120 | 0.25 | 1.5 | 3.4 |
| 053 | 02 | 222938.00 | 9229.17 | 82244.07 | 15.40 | 3.6 | 11 | 19 | 237 | 0.37 | 4.7 | 4.6 |
| 054 | 02 | 232721.77 | 9259.27 | 82257.29 | 21.16 | 3.1 | 13 | 21 | 181 | 0.49 | 3.9 | 3.1 |
| 055 | 03 | 002630.32 | 9254.61 | 83216.12 | 22.64 | 3.3 | 15 | 21 | 123 | 0.31 | 2.4 | 2.3 |
| 056 | 03 | 002741.00 | 9253.83 | 83221.96 | 27.94 | 3.1 | 14 | 12 | 153 | 0.34 | 3.2 | 4.2 |
| 057 | 03 | 003337.00 | 9239.34 | 82254.63 | 25.07 | 2.9 | 14 | 10 | 169 | 0.36 | 2.7 | 3.5 |
| 058 | 03 | 030300.23 | 9242.55 | 82250.41 | 27.62 | 2.9 | 10 | 4 | 150 | 0.29 | 3.2 | 2.2 |
| 059 | 03 | 035039.71 | 9210.12 | 82223.99 | 28.79 | 3.2 | 9 | 58 | 263 | 0.34 | 10.5 | 5.3 |
| 060 | 03 | 045544.19 | 9231.26 | 83207.68 | 10.93 | 3.5 | 12 | 40 | 106 | 0.39 | 1.8 | 2.4 |
| 061 | 03 | 075815.00 | 9227.24 | 82258.59 | 15.94 | 2.7 | 10 | 35 | 132 | 0.25 | 1.4 | 2.8 |
| 062 | 03 | 082705.39 | 9220.48 | 82246.01 | 4.0 | 3.5 | 8 | 35 | 188 | 0.20 | 1.7 | 3.4 |
| 063 | 03 | 083856.52 | 925673 | 83216.58 | 15.58 | 2.7 | 11 | 21 | 166 | 0.24 | 1.8 | 2.5 |
| 064 | 03 | 085825.00 | 9221.21 | 82230.55 | 31.59 | 3.43 | 13 | 34 | 248 | 0.31 | 2.8 | 1.7 |
| 065 | 03 | 090726.39 | 9220.62 | 82239.95 | 36.39 | 2.9 | 10 | 33 | 212 | 0.34 | 3.0 | 2.2 |
| 066 | 03 | 094822.05 | 9243.07 | 83246.79 | 6.02 | 2.5 | 4 | 13 | 176 | 0.10 | *** | *** |
| 067 | 03 | 123751.00 | 9234.73 | 83238.54 | 3.303 | 2.9 | 8 | 14 | 200 | 0.29 | 2.0 | 1.6 |
| 068 | 03 | 150711.68 | 9244.06 | 83210.22 | 17.91 | 3.1 | 11 | 28 | 152 | 0.15 | 1.4 | 3.6 |
| 069 | 03 | 160036.88 | 9249.34 | 83205.40 | 12.13 | 3.3 | 9 | 8 | 135 | 0.36 | 3.2 | 2.6 |
| 070 | 03 | 162850.43 | 9244.68 | 83204.57 | 5.00 | 3.2 | 8 | 26 | 150 | 0.22 | 2.5 | 2.5 |
| 071 | 03 | 200929.00 | 10204.45 | 83243.05 | 15.80 | 3.9 | 10 | 15 | 209 | 0.16 | 1.6 | 1.2 * |
| 072 | 04 | 034254.00 | 9225.55 | 82226.95 | 13.84 | 5.4 | 10 | 93 | 319 | 0.39 | 7.1 | 8.8 * |
| 073 | 04 | 153811.48 | 9234.75 | 83202.83 | 16.65 | 3.3 | 6 | 45 | 274 | 0.34 | 2.9 | 6.3 |
| 074 | 04 | 165507.17 | 9237.67 | 83237.35 | 7.16 | 3.0 | 6 | 17 | 272 | 0.46 | 5.1 | 6.5 |
| 075 | 04 | 195550.93 | 9253.67 | 83218.89 | 10.14 | 3.4 | 7 | 26 | 172 | 0.25 | 2.9 | 2.1 |
| 076 | 04 | 210936.50 | 9231.68 | 83218.89 | 11.53 | 2.8 | 8 | 49 | 237 | 0.41 | 2.4 | 5.8 |
| 077 | 04 | 214352.29 | 9245.42 | 83240.75 | 19.17 | 3.2 | 11 | 14 | 132 | 0.38 | 3.3 | 3.3 |
| 078 | 04 | 234606.91 | 9237.36 | 83231.11 | 8.72 | 2.9 | 7 | 37 | 294 | 0.17 | 2.0 | 3.4 |
| 079 | 05 | 003843.34 | 9244.05 | 83253.48 | 10.13 | 2.6 | 4 | 13 | 149 | 0.24 | *** | *** |
| 080 | 05 | 004936.15 | 9253.94 | 83246.30 | 13.97 | 2.6 | 4 | 7 | 158 | 0.09 | *** | *** |
| 081 | 05 | 072436.80 | 9250.20 | 83244.00 | 9.98 | 3.5 | 5 | 5 | 283 | 0.26 | 9.1 | 5.5 |
| 082 | 05 | 075218.60 | 9253.62 | 83254.48 | 43.50 | 2.5 | 4 | 13 | 204 | 0.05 | *** | *** |
| 083 | 05 | 084224.56 | 9259.83 | 85237.96 | 15.00 | 2.8 | 3 | 14 | 257 | 0.24 | *** | *** |
| 084 | 05 | 111132.69 | 9247.14 | 83254.83 | 5.00 | 3.3 | 5 | 12 | 217 | 0.39 | 4.6 | 2.6 |
| 085 | 05 | 122938.79 | 9242.81 | 83256.33 | 23.35 | 2.5 | 6 | 8 | 145 | 0.32 | 3.2 | 5.2 |
| 086 | 05 | 135831.22 | 9216.36 | 83226.45 | 12.65 | 3.1 | 4 | 47 | 256 | 0.16 | *** | *** |
| 087 | 05 | 141830.00 | 9242.14 | 83253.88 | 4.63 | 3.1 | 9 | 12 | 248 | 0.30 | 3.2 | 1.2 * |
| 088 | 05 | 151259.67 | 9243.93 | 83204.43 | 7.62 | 3.7 | 9 | 9 | 172 | 0.48 | 9.1 | 3.8 |
| 089 | 05 | 160525.01 | 9258.90 | 83249.96 | 15.00 | 2.6 | 6 | 0 | 237 | 0.34 | 5.4 | 4.2 |
| 090 | 05 | 162147.22 | 9233.43 | 83230.43 | 15.00 | 3.7 | 3 | 28 | 225 | 0.14 | *** | *** |

MAYO 1991

| No | DIA | T. ORIGIN | LAT.N | LONG.W | DEPTH | MAG | NO | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|---------|----------|-------|-----|----|-----|-----|------|------|------|
| 091 | 05 | 201401.67 | 9255.51 | 83216.04 | 13.61 | 3.1 | 7 | 20 | 157 | 0.46 | 6.3 | 8.8 |
| 092 | 05 | 201849.06 | 9253.44 | 83254.40 | 16.33 | 3.0 | 5 | 15 | 262 | 0.28 | 8.1 | 4.7 |
| 093 | 05 | 211531.62 | 9226.22 | 83245.22 | 29.09 | 3.4 | 6 | 13 | 322 | 0.07 | 1.0 | 0.7 |
| 094 | 05 | 212429.00 | 9228.70 | 83244.16 | 15.00 | 2.9 | 4 | 9 | 233 | 0.16 | *** | *** |
| 095 | 05 | 235613.06 | 9233.43 | 83245.59 | 15.00 | 3.5 | 6 | 0 | 146 | 0.06 | 0.7 | 0.4 |
| 096 | 06 | 102312.41 | 9253.09 | 83205.62 | 15.00 | 2.9 | 3 | 10 | 214 | 0.19 | *** | *** |
| 097 | 06 | 103415.51 | 9240.22 | 82259.59 | 15.00 | 3.5 | 4 | 7 | 284 | 0.26 | *** | *** |
| 098 | 06 | 192305.18 | 9233.43 | 83235.61 | 15.00 | 3.7 | 3 | 18 | 220 | 0.11 | *** | *** |
| 099 | 06 | 220104.76 | 9252.15 | 83226.49 | 20.11 | 2.7 | 6 | 52 | 185 | 0.28 | 2.9 | 4.4 |
| 100 | 07 | 021725.62 | 9246.85 | 83248.30 | 15.00 | 2.7 | 3 | 56 | 290 | 0.07 | *** | *** |
| 101 | 07 | 054944.65 | 9233.43 | 83245.59 | 15.00 | 2.8 | 4 | 0 | 215 | 0.30 | *** | *** |
| 102 | 07 | 064103.47 | 9233.68 | 83219.06 | 1.56 | 3.6 | 4 | 48 | 241 | 0.53 | *** | *** |
| 103 | 07 | 074757.04 | 9225.77 | 84208.27 | 5.44 | 3.7 | 5 | 3 | 195 | 0.48 | 14.7 | 6.3 |
| 104 | 07 | 230800.88 | 9233.43 | 83235.99 | 15.00 | 3.0 | 3 | 17 | 219 | 0.10 | *** | *** |
| 105 | 07 | 235709.24 | 9205.53 | 84210.02 | 15.00 | 3.0 | 3 | 37 | 195 | 0.28 | *** | *** |
| 106 | 08 | 032654.64 | 9233.71 | 83204.49 | 15.77 | 3.0 | 6 | 21 | 160 | 0.11 | 1.6 | 1.7 |
| 107 | 08 | 094203.62 | 9243.07 | 83254.86 | 12.23 | 2.0 | 7 | 29 | 148 | 0.31 | 2.4 | 4.3* |
| 108 | 08 | 202545.17 | 9251.11 | 83221.81 | 13.02 | 3.4 | 7 | 33 | 155 | 0.41 | 3.7 | 5.3 |
| 109 | 08 | 021014.73 | 9220.12 | 84244.22 | 25.10 | 3.5 | 6 | 64 | 243 | 0.12 | 3.4 | 7.7 |
| 110 | 09 | 061638.18 | 9244.05 | 83255.94 | 9.81 | 3.3 | 8 | 8 | 133 | 0.47 | 3.2 | 4.4 |
| 111 | 09 | 062900.60 | 9243.54 | 83255.57 | 6.95 | 3.4 | 6 | 9 | 139 | 0.09 | 0.4 | 0.3 |
| 112 | 09 | 064334.91 | 9246.39 | 83256.43 | 15.00 | 3.0 | 7 | 8 | 162 | 0.36 | 2.8 | 1.8 |
| 113 | 09 | 095619.44 | 9244.05 | 84203.66 | 16.70 | 3.4 | 4 | 6 | 241 | 0.34 | *** | *** |
| 114 | 09 | 132710.65 | 9233.43 | 83239.27 | 26.22 | 3.4 | 4 | 11 | 230 | 0.38 | *** | *** |
| 115 | 10 | 021158.96 | 9223.21 | 82236.17 | 24.35 | 3.8 | 11 | 85 | 257 | 0.44 | 3.8 | 3.3 |
| 116 | 10 | 054523.91 | 9237.56 | 83254.52 | 9.49 | 2.9 | 7 | 16 | 157 | 0.23 | 1.3 | 2.7 |
| 117 | 10 | 094317.82 | 9232.52 | 83256.97 | 15.00 | 3.0 | 8 | 12 | 166 | 0.40 | 2.7 | 4.3 |
| 118 | 10 | 214129.36 | 9217.54 | 84208.86 | 15.00 | 2.8 | 6 | 15 | 176 | 0.32 | 1.5 | 1.5 |
| 119 | 10 | 215954.56 | 9251.98 | 84208.63 | 30.00 | 3.4 | 3 | 13 | 327 | 0.12 | *** | *** |
| 120 | 11 | 050121.34 | 9244.05 | 84200.43 | 15.00 | 2.9 | 3 | 0 | 149 | 0.46 | *** | *** |
| 121 | 11 | 094522.18 | 9254.37 | 84205.26 | 28.75 | 3.5 | 4 | 5 | 250 | 0.07 | *** | *** |
| 122 | 11 | 213028.13 | 9244.05 | 84205.15 | 15.00 | 3.5 | 3 | 9 | 174 | 0.17 | *** | *** |
| 123 | 12 | 031643.57 | 9242.50 | 82249.24 | 21.03 | 3.2 | 4 | 106 | 354 | 0.16 | *** | *** |
| 124 | 12 | 054555.70 | 9211.51 | 82231.04 | 21.60 | 2.7 | 4 | 108 | 322 | 0.02 | *** | *** |
| 125 | 12 | 094517.64 | 9237.93 | 83201.73 | 13.37 | 2.7 | 4 | 39 | 274 | 0.24 | *** | *** |
| 126 | 12 | 154615.82 | 9247.38 | 83200.01 | 10.63 | 2.8 | 8 | 23 | 214 | 0.37 | 2.7 | 3.2 |
| 127 | 13 | 015920.65 | 9220.53 | 84217.55 | 15.04 | 2.9 | 10 | 17 | 179 | 0.29 | 2.0 | 2.8 |
| 128 | 13 | 022029.61 | 9245.86 | 83222.50 | 9.67 | 2.9 | 8 | 45 | 234 | 0.44 | 5.3 | 4.9 |
| 129 | 13 | 154843.90 | 9252.38 | 83242.24 | 45.00 | 3.0 | 3 | 71 | 291 | 0.44 | *** | *** |
| 130 | 13 | 213915.57 | 9229.76 | 83217.80 | 6.67 | 2.7 | 9 | 51 | 149 | 0.38 | 2.5 | 6.5 |
| 131 | 14 | 021828.34 | 9248.92 | 83221.55 | 17.93 | 2.8 | 7 | 34 | 138 | 0.30 | 1.5 | 3.2 |
| 132 | 14 | 051906.38 | 9232.87 | 83233.50 | 1.38 | 2.9 | 6 | 22 | 225 | 0.44 | 6.2 | 4.0 |
| 133 | 14 | 090316.33 | 9247.11 | 83217.91 | 5.53 | 2.5 | 9 | 31 | 127 | 0.30 | 1.9 | 3.8 |
| 134 | 14 | 111550.44 | 9249.14 | 83206.34 | 16.45 | 4.3 | 8 | 18 | 243 | 0.46 | 6.2 | 4.4* |
| 135 | 14 | 113124.75 | 9247.91 | 84211.43 | 13.41 | 3.5 | 8 | 22 | 121 | 0.45 | 3.6 | 5.4* |

Sltz ①

Sltz 7*

MAYO 1991

| No | DIA | T. ORIGIN | LAT.N | LONG.W | DEPTH | MAG | NO | DM | GAP | RMS | BRH | BRZ |
|-----|-----|-----------|----------|----------|-------|-----|----|-----|-----|------|------|--------|
| 136 | 14 | 114705.62 | 9239.89 | 83240.63 | 7.37 | 3.1 | 6 | 15 | 247 | 0.39 | 7.5 | 4.9 * |
| 137 | 14 | 195309.74 | 9247.53 | 83227.59 | 10.46 | 2.9 | 7 | 35 | 169 | 0.31 | 2.8 | 4.5 * |
| 138 | 15 | 021829.05 | 9245.64 | 83224.21 | 8.79 | 2.8 | 6 | 42 | 243 | 0.27 | 5.5 | 4.4 * |
| 139 | 15 | 044854.93 | 9233.43 | 83233.17 | 45.00 | 2.5 | 3 | 23 | 322 | 0.41 | *** | *** |
| 140 | 15 | 055858.42 | 9258.88 | 83204.60 | 19.91 | 2.4 | 5 | 2 | 347 | 0.15 | 12.4 | 2.7 |
| 141 | 15 | 090316.32 | 9247.69 | 83219.53 | 8.40 | 4.3 | 10 | 33 | 130 | 0.24 | 1.5 | 3.3 * |
| 142 | 15 | 143430.44 | 9222.03 | 82236.38 | 20.73 | 2.8 | 9 | 86 | 256 | 0.30 | 6.8 | 3.1 * |
| 143 | 16 | 043459.06 | 9224.57 | 83214.45 | 11.73 | 3.0 | 7 | 59 | 257 | 0.42 | 1.9 | 2.0 |
| 144 | 16 | 050432.74 | 9233.43 | 83230.32 | 30.00 | 2.6 | 3 | 28 | 307 | 0.46 | *** | *** |
| 145 | 16 | 053549.13 | 9235.46 | 83233.71 | 8.93 | 3.1 | 10 | 22 | 107 | 0.46 | 2.6 | 4.3 |
| 146 | 17 | 011043.10 | 9219.64 | 83245.59 | 15.00 | 3.2 | 3 | 25 | 284 | 0.29 | **** | *** |
| 147 | 17 | 013849.35 | 9238.72 | 82258.18 | 11.55 | 2.8 | 8 | 39 | 280 | 0.48 | 8.3 | 8.5 * |
| 148 | 17 | 125705.77 | 9241.30 | 82259.43 | 1.64 | 2.7 | 8 | 34 | 276 | 0.38 | 5.6 | 6.2 * |
| 149 | 17 | 171946.03 | 9237.93 | 84200.43 | 15.00 | 2.6 | 5 | 11 | 244 | 0.57 | 5.0 | 5.5 |
| 150 | 17 | 211433.91 | 9244.05 | 84200.43 | 9.29 | 2.8 | 7 | 8 | 91 | 0.41 | 2.6 | 3.1 * |
| 151 | 19 | 000324.00 | 9220.45 | 82234.75 | 37.42 | 4.7 | 13 | 63 | 259 | 0.45 | 7.7 | 3.0 * |
| 152 | 19 | 112935.48 | 9233.28 | 84239.27 | 11.12 | 2.8 | 4 | 60 | 211 | 0.10 | *** | *** |
| 153 | 20 | 104220.14 | 10215.10 | 83239.24 | 30.00 | 2.4 | 3 | 68 | 221 | 0.10 | *** | *** |
| 154 | 21 | 151156.32 | 9244.46 | 83220.31 | 8.89 | 2.1 | 5 | 38 | 126 | 0.45 | 2.5 | 4.8 |
| 155 | 22 | 101734.82 | 9240.91 | 83202.34 | 7.08 | 2.9 | 5 | 80 | 329 | 0.14 | 20.4 | 16.5 * |
| 156 | 22 | 111650.00 | 10212.71 | 83205.07 | 8.77 | 2.5 | 4 | 26 | 282 | 0.19 | *** | *** |
| 157 | 22 | 193842.65 | 9250.64 | 84217.37 | 12.26 | 3.1 | 7 | 28 | 146 | 0.25 | 3.1 | 8.9 * |
| 158 | 23 | 082015.84 | 9258.90 | 83214.69 | 30.00 | 2.9 | 3 | 64 | 320 | 0.22 | *** | *** |
| 159 | 23 | 231115.26 | 10204.60 | 83254.93 | 15.00 | 2.7 | 9 | 14 | 227 | 0.35 | 4.2 | 2.6 * |
| 160 | 23 | 223322.24 | 9248.20 | 83229.60 | 8.25 | 3.2 | 6 | 31 | 241 | 0.41 | 3.5 | 9.0 * |
| 161 | 24 | 233107.22 | 9244.05 | 84200.43 | 45.00 | 2.8 | 3 | 0 | 211 | 0.12 | *** | *** |
| 162 | 26 | 112158.16 | 9214.61 | 84231.17 | 36.83 | 2.7 | 6 | 44 | 340 | 0.33 | 4.9 | 1.1 |
| 163 | 26 | 151203.76 | 9250.20 | 83222.50 | 15.00 | 2.6 | 3 | 44 | 260 | 0.39 | *** | *** |
| 164 | 27 | 070741.55 | 9226.67 | 82259.79 | 30.00 | 2.4 | 5 | 85 | 249 | 0.20 | 1.0 | 3.0 |
| 165 | 27 | 184039.97 | 9237.12 | 83216.36 | 31.55 | 3.3 | 4 | 93 | 325 | 0.09 | *** | *** |
| 166 | 27 | 185915.00 | 9225.50 | 82240.86 | 11.00 | 4.4 | 11 | 101 | 276 | 0.42 | 6.0 | 12.3 * |
| 167 | 28 | 053854.00 | 9248.76 | 83218.11 | 9.20 | 4.1 | 12 | 72 | 246 | 0.24 | 2.7 | 4.0 * |
| 168 | 28 | 103716.66 | 9251.55 | 84220.61 | 14.74 | 3.3 | 8 | 33 | 165 | 0.27 | 2.2 | 2.5 * |
| 169 | 28 | 113435.12 | 9207.53 | 83245.59 | 45.00 | 2.8 | 3 | 48 | 211 | 0.14 | *** | *** |
| 170 | 28 | 215518.21 | 8247.69 | 83221.28 | 40.34 | 2.6 | 5 | 26 | 174 | 0.34 | *** | *** |
| 171 | 28 | 222009.33 | 9240.67 | 82259.75 | 4.06 | 3.3 | 7 | 85 | 265 | 0.35 | 5.4 | 7.7 |
| 172 | 29 | 093823.86 | 9254.05 | 83201.41 | 5.53 | 3.2 | 8 | 83 | 272 | 0.42 | 10.8 | 15.9 |
| 173 | 29 | 115354.37 | 9244.05 | 83255.42 | 45.00 | 2.8 | 3 | 9 | 163 | 0.11 | *** | *** |
| 174 | 29 | 172709.75 | 9239.03 | 83218.22 | 8.61 | 3.1 | 6 | 56 | 335 | 0.25 | *** | *** |
| 175 | 29 | 233833.19 | 10205.74 | 83255.30 | 15.00 | 3.0 | 7 | 16 | 244 | 0.41 | 4.0 | 3.0 * |
| 176 | 30 | 215348.41 | 9235.32 | 84210.02 | 22.47 | 2.8 | 5 | 18 | 198 | 0.46 | *** | *** |

7242 11*

3
 4
 5
 12
 3*
 9*

PARTE B

LECTURAS DE LOS TIEMPOS DE ARRIBO DE LOS SISMOS
REGIONALES, TELESISMOS Y EVENTOS LOCALES CON M >= 4,0

MAYO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| SJS | 01 | 235903.50 | IP | Z | D |
| LCR2 | 01 | 235901.00 | IP | Z | C |
| URS | 01 | 235858.30 | IP | Z | C |
| ICR | 01 | 235858.70 | IP | Z | C |
| QCR | 01 | 235904.80 | IP | Z | D |
| LIO | 01 | 235904.80 | IP | Z | D |
| ACR | 01 | 235911.40 | IP | Z | D |

25 Km al SW de la Suiza de Turrialba, Costa Rica, Md= 4,1

| | | | | | |
|------|----|-----------|----|---|--|
| SJS | 02 | 070518.00 | IP | Z | |
| ICR | 02 | 070517.50 | IP | Z | |
| LCR2 | 02 | 070516.30 | IP | Z | |
| URS | 02 | 070516.50 | IP | Z | |
| BUS | 02 | 070515.00 | IP | Z | |

8 Km al NW de División, Perez Zeledón, Costa Rica, Md= 4,8

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 02 | 090631.30 | IP | Z | C |
| | | 0637.10 | S | Z | |
| ICR | 02 | 090632.10 | IP | Z | C |
| LCR2 | 02 | 090633.10 | IP | Z | |
| URS | 02 | 090633.50 | IP | Z | C |

Cerro Zurquí, Costa Rica, Md= 4,4

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 04 | 034323.60 | IP | Z | D |
| LIO | 04 | 034309.80 | IP | Z | C |
| URS | 04 | 034318.00 | IP | Z | C |
| | | 4336.50 | S | Z | |
| ICR | 04 | 034319.60 | IP | Z | C |
| LCR2 | 04 | 034321.60 | IP | Z | C |
| | | 4343.20 | S | Z | |
| QCR | 04 | 034324.00 | IP | Z | C |
| PRS | 04 | 034327.00 | IP | Z | C |
| FOR | 04 | 034334.00 | IP | Z | D |

7.8Km al SE de Changuinola, Panamá Md= 5,4

| | | | | | |
|-----|----|-----------|----|---|---|
| BUS | 06 | 100042.80 | IP | Z | C |
| JCR | 06 | 100105.80 | IP | Z | C |

Regional.

| | | | | | |
|-----|----|-----------|----|---|---|
| JCR | 07 | 030415.00 | IP | Z | C |
| LIO | 07 | 030337.50 | IP | Z | D |
| BUS | 07 | 030341.50 | IP | Z | C |
| SRA | 07 | 030305.80 | IP | Z | D |

Regional

MAYO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|-----|-----|-----------|------|------|-----|
| SRA | 07 | 033852.80 | IP | Z | D |
| JCR | 07 | 033807.80 | IP | Z | D |
| LIO | 07 | 033837.10 | IP | Z | C |
| BUS | 07 | 033846.00 | IP | Z | D |

Regional

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 07 | 035305.10 | IP | Z | C |
| URS | 07 | 035300.60 | EP | Z | + |
| BUS | 07 | 035300.50 | IP | Z | |
| ICR | 07 | 035301.40 | IP | Z | C |
| LCR2 | 07 | 035303.70 | IP | Z | C |
| ACR | 07 | 035305.80 | IP | Z | |
| QCR | 07 | 035307.70 | IP | Z | |
| | | 5320.00 | S | Z | |
| PRS | 07 | 035309.20 | EP | Z | - |
| FOR | 07 | 035316.50 | IP | Z | |
| JCR | 07 | 035320.80 | IP | Z | |

Boca del Río La Estrella, Limón Costa Rica, Md= 4,8

| | | | | | |
|-----|----|-----------|----|---|---|
| ACR | 08 | 043532.00 | IP | Z | D |
| JCR | 08 | 043546.00 | IP | Z | D |
| BUS | 08 | 043518.20 | IP | Z | D |
| QCR | 08 | 043527.00 | IP | Z | D |
| LIO | 08 | 043601.50 | IP | Z | C |

Regional

| | | | | | |
|-----|----|-----------|----|---|---|
| LIO | 08 | 085251.80 | IP | Z | D |
| BUS | 08 | 085259.50 | IP | Z | C |

Regional

| | | | | | |
|-----|----|-----------|----|---|---|
| JCR | 08 | 230616.80 | IP | Z | C |
| BUS | 08 | 230625.40 | IP | Z | D |
| ACR | 08 | 230612.50 | IP | Z | D |
| QCR | 08 | 230628.50 | IP | Z | D |
| SJS | 08 | 230627.80 | IP | Z | D |
| URS | 08 | 230627.00 | IP | Z | C |

Regional

| | | | | | |
|-----|----|-----------|----|---|---|
| JCR | 09 | 133400.10 | IP | Z | C |
| BUS | 09 | 133425.60 | IP | Z | D |
| ACR | 09 | 133414.80 | IP | Z | D |
| VCR | 09 | 133450.80 | IP | Z | C |

Regional

| | | | | | |
|-----|----|-----------|----|---|---|
| JCR | 09 | 144338.90 | IP | Z | D |
|-----|----|-----------|----|---|---|

Regional

| | | | | | |
|-----|----|-----------|----|---|---|
| JCR | 09 | 153632.90 | IP | Z | D |
| BUS | 09 | 153642.30 | IP | Z | D |

Regional

MAYO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|--|-----|-----------|------|------|-----|
| JCR | 10 | 114045.10 | IP | Z | D |
| LCR2 | 10 | 114033.90 | IP | Z | D |
| Regional | | | | | |
| BUS | 12 | 054353.20 | IP | Z | D |
| LIO | 12 | 054344.50 | IP | Z | |
| JCR | 12 | 054315.40 | IP | Z | D |
| SJS | 12 | 054258.20 | IP | Z | D |
| PRS | 12 | 054302.50 | IP | Z | D |
| LCR2 | 12 | 054357.20 | IP | Z | D |
| | | 4410.50 | S | Z | |
| ICR | 12 | 054355.40 | IP | Z | D |
| | | 4407.80 | S | Z | |
| Regional | | | | | |
| JCR | 13 | 170340.80 | IP | Z | D |
| Regional | | | | | |
| JCR | 14 | 043904.00 | IP | Z | D |
| BUS | 14 | 043924.80 | IP | Z | D |
| VCR | 14 | 043856.80 | IP | Z | D |
| URS | 14 | 043925.00 | IP | Z | C |
| LCR2 | 14 | 043921.80 | IP | Z | D |
| SJS | 14 | 043921.40 | IP | Z | C |
| Regional | | | | | |
| SJS | 14 | 111608.05 | IP | Z | C |
| | | 1521.50 | S | Z | |
| LIO | 14 | 111555.00 | IP | Z | D |
| URS | 14 | 111602.80 | IP | Z | D |
| | | 1612.80 | S | Z | |
| BUS | 14 | 111603.80 | IP | Z | D |
| LCR2 | 14 | 111607.00 | IP | Z | D |
| | | 1615.20 | S | Z | |
| QCR | 14 | 111610.70 | IP | Z | C |
| FOR | 14 | 111620.00 | IP | Z | C |
| VCR | 14 | 111632.10 | IP | Z | |
| 22 Km al SW de Limón Costa Rica, Md= 4,3 | | | | | |
| SJS | 14 | 195321.80 | IP | Z | D |
| URS | 14 | 195316.50 | IP | Z | C |
| | | 5321.00 | S | Z | |
| BUS | 14 | 195318.00 | IP | Z | |
| LIO | 14 | 195318.00 | IP | Z | |
| LCR2 | 14 | 195320.50 | IP | Z | C |
| | | 5327.80 | S | Z | |
| QCR | 14 | 195325.00 | IP | Z | D |
| PRS | 14 | 195325.80 | IP | Z | C |
| FOR | 14 | 195334.95 | IP | Z | |
| JCR | 14 | 195338.20 | IP | Z | D |
| VCR | 14 | 195347.10 | IP | Z | D |

10 Km al SE de Tayutic, La Suiza Turrialba, Costa Rica, Md= 4,8

MAYO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| SJS | 15 | 090331.00 | IP | Z | D |
| | | 0343.10 | S | Z | |
| LCR2 | 15 | 090329.85 | IP | Z | C |
| URS | 15 | 090325.70 | IP | Z | C |
| | | 0332.50 | S | Z | |
| LIO | 15 | 090322.90 | IP | Z | D |
| BUS | 15 | 090326.50 | IP | Z | C |
| QCR | 15 | 090334.80 | IP | Z | D |
| | | 0348.00 | S | Z | |
| ACR | 15 | 090337.30 | IP | Z | D |
| | | 0354.00 | IP | Z | |
| JCR | 15 | 090347.90 | IP | Z | D |
| VCR | 15 | 090356.30 | IP | Z | D |

15 Km al Sureste de Moravia de Chirripó, Costa Rica Md= 4,3

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 15 | 143457.10 | IP | Z | C |
| PRS | 15 | 143501.20 | IP | Z | D |
| URS | 15 | 143452.45 | IP | Z | D |
| | | 3514.00 | S | Z | |
| LCR2 | 15 | 143456.55 | IP | Z | D |
| LIO | 15 | 143445.00 | IP | Z | C |
| BUS | 15 | 143452.10 | IP | Z | D |
| JCR | 15 | 143511.90 | IP | Z | C |
| QCR | 15 | 143458.00 | IP | Z | C |
| VCR | 15 | 143419.50 | IP | Z | C |
| ACR | 15 | 143447.00 | IP | Z | D |

16 Km al Sur de Guabito, Panamá Md= 4,9

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 17 | 105730.20 | IP | Z | D |
| ICR | 17 | 105734.90 | IP | Z | D |
| URS | 17 | 105734.90 | IP | Z | C |
| LCR2 | 17 | 105733.20 | IP | Z | D |
| JCR | 17 | 105737.20 | IP | Z | D |
| VCR | 17 | 105712.40 | IP | Z | C |
| QCR | 17 | 105735.20 | IP | Z | D |

Regional

| | | | | | |
|-----|----|-----------|----|---|---|
| QCR | 18 | 055932.40 | IP | Z | D |
| VCR | 18 | 055945.00 | IP | Z | D |
| BUS | 18 | 055939.40 | IP | Z | C |
| JCR | 18 | 055930.20 | IP | Z | D |
| SJS | 18 | 055843.80 | IP | Z | D |

Regional

| | | | | | |
|-----|----|-----------|----|---|---|
| JCR | 18 | 061345.40 | IP | Z | D |
| BUS | 18 | 061347.80 | EP | Z | - |
| VCR | 18 | 061338.40 | IP | Z | D |
| SJS | 18 | 061351.80 | IP | Z | D |

Regional

MAYO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|----------|-----|-----------|------|------|-----|
| JCR | 18 | 200928.50 | IP | Z | C |
| BUS | 18 | 200906.90 | IP | Z | C |
| VCR | 18 | 200931.00 | IP | Z | D |
| Regional | | | | | |
| SJS | 19 | 000351.00 | IP | Z | D |
| | | 0412.00 | S | Z | |
| ICR | 19 | 000348.00 | IP | Z | C |
| URS | 19 | 000346.00 | IP | Z | C |
| | | 0404.00 | S | Z | |
| PRS | 19 | 000355.00 | IP | Z | + |
| LCR2 | 19 | 000349.20 | IP | Z | |
| | | 0408.00 | S | Z | |
| VCR | 19 | 000413.10 | IP | Z | D |
| | | 0450.10 | S | Z | |
| LIO | 19 | 000339.80 | IP | Z | D |
| ACR | 19 | 000341.20 | IP | Z | D |
| BUS | 19 | 000344.90 | IP | Z | D |
| QCR | 19 | 000351.00 | EP | Z | |
| JCR | 19 | 000405.10 | EP | Z | D |

14 Km al SW de Changuinola, Panamá, Md= 4,7

| | | | | | |
|-----|----|-----------|----|---|---|
| JCR | 19 | 011752.90 | IP | Z | C |
| BUS | 19 | 011754.90 | EP | Z | - |
| VCR | 19 | 011751.90 | IP | Z | D |
| SJS | 19 | 011748.00 | IP | Z | D |

Regional

| | | | | | |
|------|----|-----------|----|---|---|
| JCR | 19 | 114645.90 | IP | Z | D |
| BUS | 19 | 114624.00 | IP | Z | C |
| VCR | 19 | 114631.90 | IP | Z | C |
| LIO | 19 | 114613.00 | IP | Z | C |
| LCR2 | 19 | 114602.80 | IP | Z | D |
| SJS | 19 | 114628.90 | IP | Z | D |

Regional

| | | | | | |
|-----|----|-----------|----|---|---|
| JCR | 20 | 003816.80 | IP | Z | D |
| BUS | 20 | 003854.80 | IP | Z | D |
| VCR | 20 | 003808.00 | IP | Z | D |
| SJS | 20 | 003836.90 | IP | Z | D |
| ICR | 20 | 003840.80 | IP | Z | D |

Regional

| | | | | | |
|------|----|-----------|----|---|---|
| BUS | 20 | 175324.00 | IP | Z | D |
| VCR | 20 | 175315.80 | IP | Z | D |
| LCR2 | 20 | 175340.80 | IP | Z | D |

Regional

| | | | | | |
|-----|----|-----------|----|---|---|
| JCR | 21 | 060211.40 | IP | Z | D |
| VCR | 21 | 060200.10 | IP | Z | D |

Regional

MAYO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| VCR | 21 | 112007.20 | IP | Z | D |
| BUS | 21 | 112013.00 | IP | Z | D |
| JCR | 21 | 112008.40 | IP | Z | D |
| SJS | 21 | 112007.10 | IP | Z | D |
| ICR | 21 | 112012.80 | IP | Z | D |
| LCR2 | 21 | 112011.80 | IP | Z | D |

Mar de Banda, Mb=6,2

| | | | | | |
|-----|----|-----------|----|---|---|
| ACR | 21 | 143025.40 | IP | Z | D |
| JCR | 21 | 142952.90 | IP | Z | C |
| VCR | 21 | 142944.40 | IP | Z | D |
| BUS | 21 | 143018.80 | IP | Z | D |

Regional

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 22 | 101754.20 | IP | Z | C |
| ICR | 22 | 101751.10 | IP | Z | + |
| LCR2 | 22 | 101753.10 | IP | Z | |
| URS | 22 | 101749.00 | IP | Z | D |
| LIO | 22 | 101744.10 | IP | Z | |
| ACR | 22 | 101757.00 | IP | Z | |
| BUS | 22 | 101749.00 | IP | Z | D |
| QCR | 22 | 101756.50 | IP | Z | C |
| | | 1812.00 | S | Z | |
| JCR | 22 | 101811.80 | IP | Z | |
| VCR | 22 | 101819.10 | IP | Z | C |

35 Km al SW de Limón, Costa Rica, Md= 4,3

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 22 | 111708.60 | IP | Z | + |
| ICR | 22 | 111705.10 | IP | Z | C |
| | | 1718.50 | S | Z | |
| LCR2 | 22 | 111707.10 | IP | Z | + |
| | | 1722.00 | S | Z | |
| URS | 22 | 111703.30 | IP | Z | C |
| LIO | 22 | 111654.90 | IP | Z | C |
| ACR | 22 | 111708.90 | IP | Z | D |
| BUS | 22 | 111709.00 | IP | Z | |
| QCR | 22 | 111711.00 | IP | Z | |
| | | 1729.00 | S | Z | |
| VCR | 22 | 111732.90 | IP | Z | C |
| JCR | 22 | 111725.20 | IP | Z | C |

35 Km al Sur de Limón, Costa Rica, Md= 4,5

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 23 | 082031.50 | EP | Z | C |
| BUS | 23 | 082029.00 | IP | Z | C |
| JCR | 23 | 082049.00 | IP | Z | C |
| QCR | 23 | 082036.10 | EP | Z | |
| | | 2053.90 | S | Z | |
| VCR | 23 | 082059.10 | IP | Z | C |
| LCR2 | 23 | 082031.10 | IP | Z | C |
| | | 2044.40 | S | Z | |
| URS | 23 | 082027.00 | IP | Z | C |
| | | 2040.00 | S | Z | |

4

MAYO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|---|-----|----------------------|---------|--------|-----|
| ICR | 23 | 082027.90 2039.60 | IP S | Z Z | C |
| Frontera entre Costa Rica y Panamá, Md= 4,0 | | | | | |
| SJS | 23 | 231120.00 1123.80 | IP S | Z Z | C |
| QCR | 23 | 231129.00 | IP | Z | C |
| BUS | 23 | 231126.10 | IP | Z | D |
| VCR | 23 | 231145.90 1208.95 | IP S | Z Z | D |
| JCR | 23 | 231137.00 | IP | Z | D |
| ICR | 23 | 231119.10 | IP | Z | D |
| LCR2 | 23 | 231122.30 | IP | Z | D |
| URS | 23 | 231121.90 | IP | Z | D |
| Bajo La Hondura, Costa Rica, Md= 4,3 | | | | | |
| BUS | 24 | 205647.40 | IP | Z | C |
| VCR | 24 | 205658.40 | IP | Z | C |
| JCR | 24 | 205654.20 | IP | Z | C |
| VCR | 24 | 205649.00 | IP | Z | C |
| LCR2 | 24 | 205649.80 | IP | Z | C |
| ICR | 24 | 205651.00 | IP | Z | C |
| Sur de Perú, Mb=6,3 | | | | | |
| SJS | 24 | 233115.85 3123.85 | IP S | Z Z | C |
| URS | 24 | 233115.90 | IP | Z | C |
| LCR2 | 24 | 233114.35 | IP | Z | D |
| ICR | 24 | 233116.80 | BP | Z | D |
| 10 Km al SW de San Marcos de Tarrazú, Costa Rica, Md= 4,0 | | | | | |
| SJS | 26 | 030545.20 0600.80 | IP S | Z Z | D |
| LCR2 | 26 | 030543.90 | IP | Z | C |
| ICR | 26 | 030542.10 0556.60 | IP S | Z Z | C |
| URS | 26 | 030539.90 0552.00 | IP S | Z Z | C |
| ACR | 26 | 030542.40 0557.20 | IP S | Z Z | C |
| BUS | 26 | 030540.00 | IP | Z | C |
| JCR | 26 | 030601.50 | IP | Z | C |
| QCR | 26 | 030546.90 | IP | Z | D |
| 11 Km al SW sw Cahuita, Limón Costa Rica, Md= 4,4 | | | | | |
| SJS | 27 | 184055.70 4116.30 | IP S | Z Z | C |
| ACR | 27 | 184047.10 | IP | Z | |
| BUS | 27 | 184050.00 | IP | Z | |
| URS | 27 | 184050.70 4107.70 | IP S | Z Z | C |

0/2

5

X

MAYO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| ICR | 27 | 184052.20 | IP | Z | C |
| LCR2 | 27 | 184054.00 | IP | Z | C |
| QCR | 27 | 184056.90 | IP | Z | |
| | | 4118.30 | S | Z | |
| JCR | 27 | 184111.00 | IP | Z | |
| VCR | 27 | 184118.50 | IP | Z | |

10 Km al Norte de Changuinola, Panamá, Md= 5,1

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 27 | 185941.00 | IP | Z | D |
| | | 190005.50 | S | Z | |
| URS | 27 | 185935.30 | IP | Z | C |
| | | 5956.50 | S | Z | |
| ICR | 27 | 185937.90 | IP | Z | C |
| | | 5955.00 | S | Z | |
| LCR2 | 27 | 185939.00 | IP | Z | C |
| | | 5957.90 | S | Z | |
| BUS | 27 | 185934.50 | IP | Z | D |
| | | 5949.50 | S | Z | |
| QCR | 27 | 185941.20 | IP | Z | |
| JCR | 27 | 185955.90 | IP | Z | D |
| ACR | 27 | 185932.00 | RP | Z | |

14 Km al Oeste de Changuinola, Panamá Md= 4,4

| | | | | | |
|-----|----|-----------|----|---|---|
| ACR | 27 | 224519.50 | IP | Z | D |
| BUS | 27 | 224506.80 | IP | Z | D |
| QCR | 27 | 224504.20 | IP | Z | D |
| JCR | 27 | 224550.40 | IP | Z | D |

Regional

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 28 | 053909.00 | IP | Z | D |
| | | 3919.80 | S | Z | |
| LCR2 | 28 | 053907.80 | IP | Z | D |
| | | 3917.90 | S | Z | |
| URS | 28 | 053903.70 | IP | Z | D |
| | | 3910.00 | S | Z | |
| ICR | 28 | 053905.30 | IP | Z | D |
| BUS | 28 | 053914.95 | IP | Z | D |
| QCR | 28 | 053912.00 | IP | Z | C |
| | | 3926.50 | S | Z | |
| JCR | 28 | 053926.20 | IP | Z | |
| ACR | 28 | 053915.50 | IP | Z | C |

27 Km al Suroeste de Limón, Costa Rica, Md= 4,1

| | | | | | |
|-----|----|-----------|----|---|---|
| ACR | 30 | 164718.80 | IP | Z | D |
| JCR | 30 | 164741.00 | IP | Z | D |
| QCR | 30 | 164731.40 | RP | Z | - |
| VCR | 30 | 164747.00 | IP | Z | C |

Regional

| | | | | | |
|-----|----|-----------|----|---|---|
| JCR | 31 | 054737.90 | IP | Z | D |
|-----|----|-----------|----|---|---|

Regional

ZGM ANASIS Ver 2.0

Diseño:

Guillermo Á Avila R

FEC m:01-05-1991

FEC M:03-05-1991

GMT=00h-24h

LAT= 7.50°-11.50°

LON=82.50°-86.50°

PRF= 0.0- 999.0 Km

MAG= 0.0- 9.9

SIMBOLOGIA:

M=3 □ M=4 ◇ M=5 +

M=6 △ M=7 ▽ M=8 ○

STA *

BASE.:MAY91

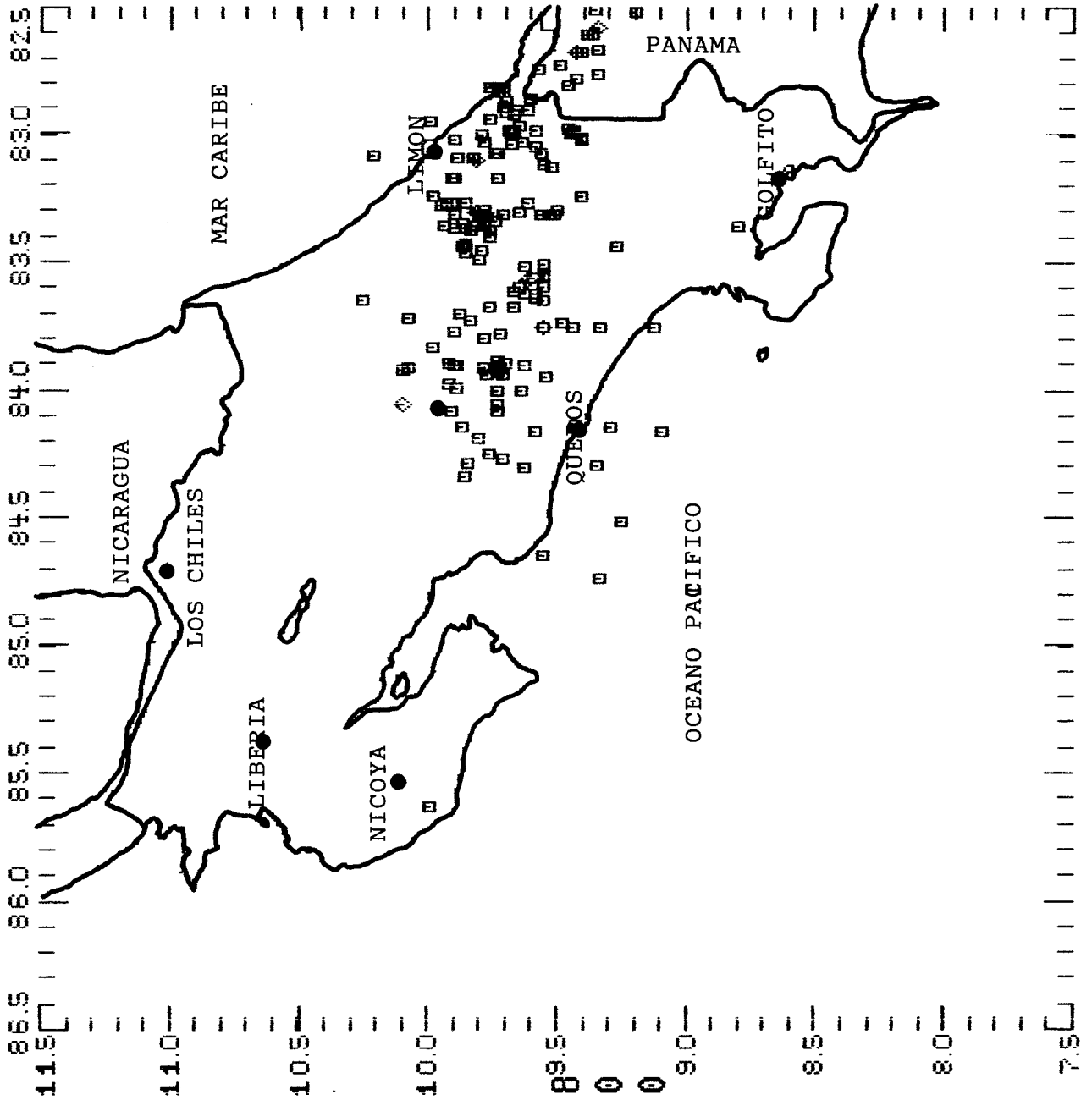
N SIS: 174

M<3.9: 166 4≤M<5: 8

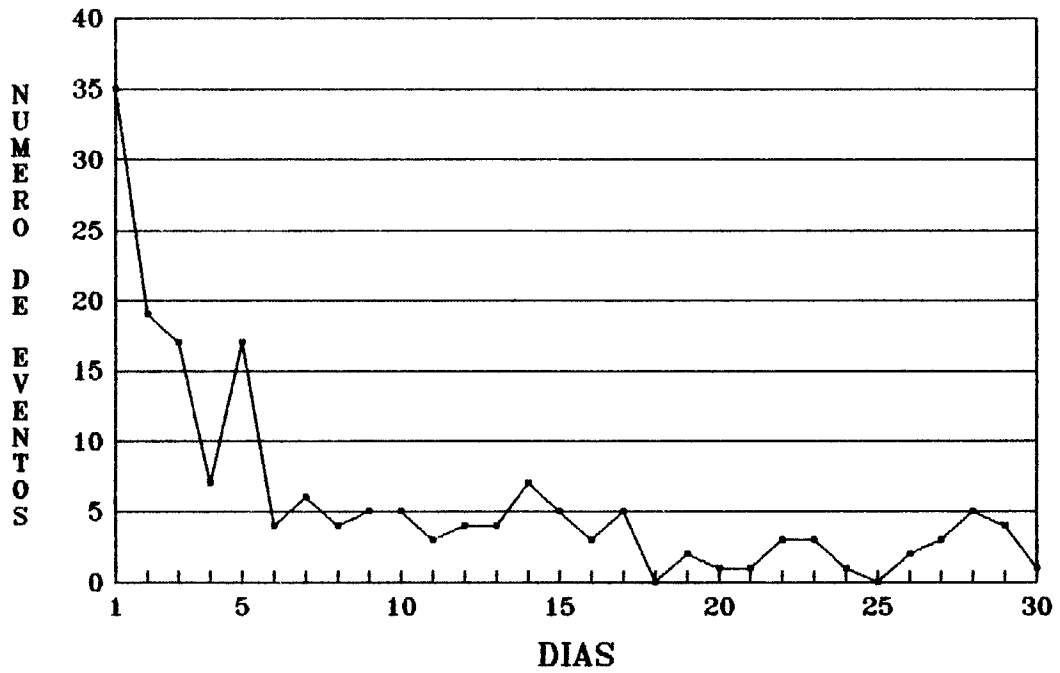
5≤M<6: 0 6≤M<7: 0

7≤M<8: 0 M≥8 : 0

RED SISMOLÓGICA NACIONAL, ICE-UCR
MAPA DE EPICENTROS DE COSTA RICA

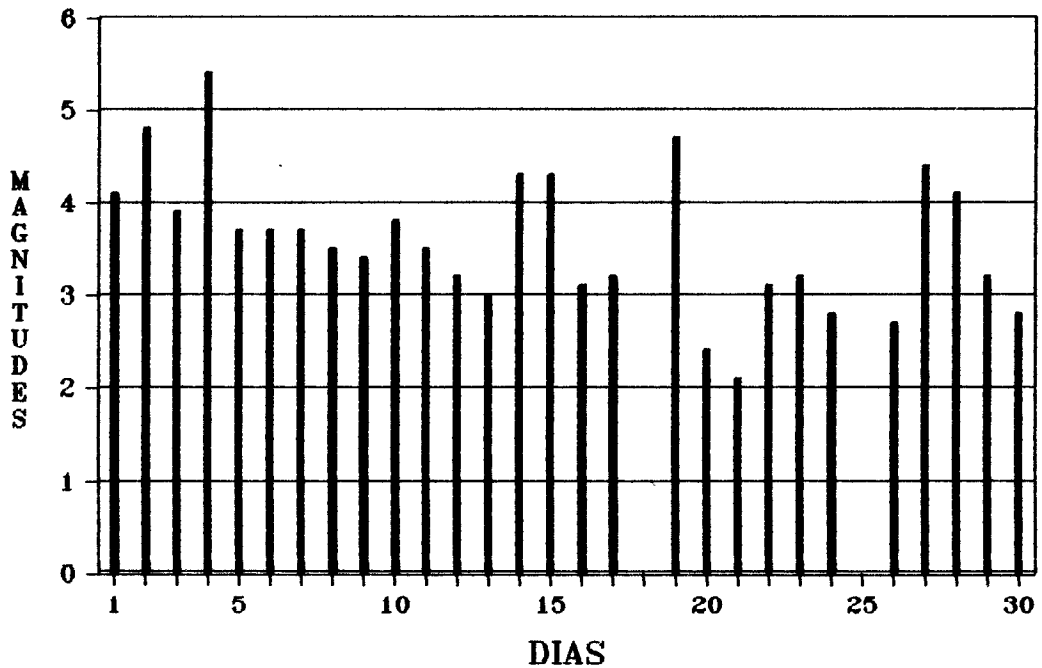


RED SISMOLOGICA NACIONAL RSN: (ICE-UCR) CURVA DE EVENTOS LOCALIZADOS



MAYO DE 1991 (TOTAL DE EVENTOS 176)

MAGNITUDES DE LOS EVENTOS LOCALIZADOS DURANTE EL MES DE MAYO 91



EVENTO DE MAYOR MAGNITUD POR DIA

PARAMETROS DE LOS EVENTOS LOCALIZADOS
PARTE A
JUNIO 1991

| No | DIA | T. ORIGIN | LAT.N | LONG.W | DEPTH | MAG | NO | DM | GAP | RMS | RRH | ERZ |
|-----|-----|-----------|----------|----------|-------|-----|----|-----|------|------|------|------|
| 001 | 01 | 033129.46 | 10006.88 | 84023.13 | 75.49 | 3.1 | 13 | 8 | 214 | 0.23 | 1.7 | 1.3 |
| 002 | 01 | 045727.89 | 9031.37 | 83038.34 | 13.76 | 2.8 | 11 | 14 | 174 | 0.33 | 2.7 | 3.2 |
| 003 | 01 | 051109.55 | 9058.90 | 83049.97 | 6.42 | 2.7 | 7 | 0 | 236 | 0.35 | 2.7 | 1.2 |
| 004 | 01 | 060418.00 | 9057.13 | 83050.48 | 5.35 | 3.5 | 7 | 5 | 132 | 0.37 | 3.3 | 1.9* |
| 005 | 01 | 101308.65 | 9055.43 | 83051.31 | 14.89 | 3.7 | 6 | 10 | 214 | 0.28 | 2.0 | 2.9* |
| 006 | 01 | 191258.71 | 9056.86 | 83050.22 | 2.81 | 2.6 | 4 | 6 | 142 | 0.44 | 0.5 | 0.6* |
| 007 | 01 | 210034.50 | 9015.14 | 83003.63 | 4.74 | 3.5 | 11 | 67 | 237 | 0.45 | 7.7 | 9.3 |
| 008 | 01 | 224111.86 | 9057.18 | 82052.54 | 4.19 | 3.3 | 10 | 0 | 153 | 0.35 | 3.5 | 2.8* |
| 009 | 01 | 230340.40 | 9057.92 | 83050.00 | 4.61 | 2.7 | 5 | 5 | 149 | 0.20 | 2.8 | 1.5* |
| 010 | 02 | 002043.78 | 9056.74 | 83053.00 | 5.34 | 2.7 | 5 | 8 | 149 | 0.22 | 1.5 | 1.5* |
| 011 | 02 | 004057.30 | 9057.37 | 83051.65 | 3.88 | 2.6 | 5 | 4 | 146 | 0.16 | 1.4 | 1.3* |
| 012 | 02 | 010315.69 | 9038.62 | 83037.47 | 5.00 | 3.0 | 14 | 18 | 268 | 0.27 | 2.1 | 1.2 |
| 013 | 02 | 021721.01 | 9047.49 | 83008.72 | 25.00 | 3.6 | 13 | 70 | 256 | 0.25 | 2.3 | 1.9 |
| 014 | 02 | 022342.70 | 9057.69 | 83051.24 | 3.31 | 3.0 | 5 | 4 | 147 | 0.13 | 0.7 | 0.7 |
| 015 | 02 | 034628.00 | 9058.90 | 83049.01 | 7.00 | 2.7 | 5 | 10 | 262 | 0.27 | 2.6 | 0.7 |
| 016 | 02 | 041715.42 | 10000.82 | 83049.97 | 9.53 | 3.1 | 8 | 4 | 272 | 0.36 | 3.4 | 3.3 |
| 017 | 02 | 054320.25 | 9058.10 | 83050.60 | 5.14 | 2.5 | 7 | 2 | 141 | 0.15 | 2.6 | 1.1 |
| 018 | 02 | 072038.10 | 9058.90 | 83049.97 | 7.00 | 2.6 | 5 | 10 | 236 | 0.37 | 2.1 | 0.9 |
| 019 | 02 | 093941.28 | 9057.83 | 83050.74 | 4.76 | 3.0 | 7 | 2 | 128 | 0.17 | 1.4 | 0.8 |
| 020 | 02 | 100626.85 | 9025.76 | 83003.77 | 30.00 | 2.7 | 12 | 78 | 242 | 0.31 | 3.8 | 9.8 |
| 021 | 02 | 103209.96 | 9037.76 | 82058.44 | 27.11 | 3.1 | 12 | 86 | 259 | 0.34 | 3.9 | 6.7 |
| 022 | 02 | 125253.50 | 9058.90 | 83049.97 | 7.00 | 2.7 | 4 | 10 | 236 | 0.35 | 3.1 | 1.3 |
| 023 | 02 | 160418.62 | 9038.00 | 82056.43 | 45.00 | 3.4 | 6 | 95 | 344 | 0.50 | 6.0 | 5.7 |
| 024 | 02 | 172629.34 | 10004.53 | 83049.97 | 4.80 | 3.5 | 11 | 289 | 0.06 | *** | *** | *** |
| 025 | 02 | 173332.99 | 9030.02 | 84002.52 | 30.00 | 3.5 | 8 | 27 | 246 | 0.44 | 6.4 | 6.2 |
| 026 | 02 | 174025.20 | 9058.53 | 83050.17 | 5.72 | 2.8 | 5 | 6 | 147 | 0.41 | 2.9 | 1.4 |
| 027 | 02 | 183121.15 | 9058.70 | 83050.29 | 6.82 | 2.7 | 6 | 1 | 177 | 0.30 | 3.2 | 1.4 |
| 028 | 02 | 204453.73 | 9049.58 | 83004.08 | 27.96 | 3.4 | 13 | 78 | 263 | 0.24 | 2.2 | 1.8 |
| 029 | 02 | 234957.04 | 9044.34 | 82024.97 | 25.00 | 3.0 | 10 | 41 | 301 | 0.26 | 3.5 | 4.9 |
| 030 | 03 | 010921.28 | 9054.90 | 83048.56 | 15.87 | 2.8 | 7 | 2 | 263 | 0.31 | 5.1 | 4.2 |
| 031 | 03 | 053813.29 | 9042.88 | 83059.63 | 10.14 | 3.1 | 11 | 3 | 86 | 0.35 | 1.5 | 2.9 |
| 032 | 03 | 055726.35 | 9031.34 | 83040.71 | 5.75 | 3.2 | 9 | 9 | 276 | 0.16 | 1.6 | 0.7 |
| 033 | 03 | 062142.20 | 10007.18 | 85020.80 | 19.73 | 3.5 | 7 | 39 | 313 | 0.21 | 6.6 | 18.9 |
| 034 | 03 | 062623.78 | 9040.29 | 82052.38 | 25.70 | 4.0 | 13 | 98 | 331 | 0.59 | 6.7 | 4.2 |
| 035 | 03 | 063705.73 | 9045.98 | 83027.33 | 25.00 | 2.7 | 8 | 36 | 305 | 0.37 | 6.8 | 9.2 |
| 036 | 03 | 073713.79 | 9054.84 | 83032.19 | 23.34 | 3.7 | 12 | 28 | 159 | 0.39 | 2.4* | 3.6 |
| 037 | 03 | 081729.19 | 9023.00 | 83039.97 | 18.70 | 3.3 | 7 | 22 | 289 | 0.49 | *** | 9.5 |
| 038 | 03 | 124933.29 | 9048.42 | 83031.24 | 25.00 | 3.2 | 9 | 28 | 284 | 0.29 | 3.6 | 4.1 |
| 039 | 03 | 184639.80 | 10000.82 | 83049.97 | 7.97 | 2.8 | 7 | 4 | 272 | 0.44 | 0.5 | 0.6 |
| 040 | 03 | 232400.52 | 9048.85 | 83026.44 | 14.72 | 2.9 | 10 | 37 | 309 | 0.21 | 2.4 | 4.9 |
| 041 | 04 | 043516.46 | 9034.04 | 83022.11 | 36.08 | 3.4 | 9 | 43 | 235 | 0.35 | 3.9 | 2.8 |
| 042 | 04 | 050530.17 | 9054.11 | 83011.69 | 24.69 | 2.6 | 5 | 27 | 176 | 0.09 | 0.6 | 0.9 |
| 043 | 04 | 050924.83 | 9044.73 | 83023.93 | 14.35 | 3.5 | 12 | 42 | 190 | 0.47 | 2.7 | 3.0 |
| 044 | 04 | 060732.01 | 9042.10 | 83007.90 | 35.22 | 2.9 | 9 | 71 | 325 | 0.33 | 4.2 | 1.8 |
| 045 | 04 | 094058.83 | 9045.24 | 83028.18 | 18.40 | 3.3 | 12 | 35 | 176 | 0.39 | 2.3 | 5.7 |

JUNIO 1991

| No | DIA | T. ORIGIN | LAT.N | LONG.W | DEPTH | MAG | NO | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|----------|--------|-----|----|-----|-----|------|------|------|
| 046 | 04 | 214713.79 | 9052.11 | 84022.20 | 13.73 | 3.2 | 9 | 36 | 169 | 0.45 | 3.4 | 3.5 |
| 047 | 05 | 002706.75 | 9043.22 | 83056.99 | 6.40 | 2.6 | 8 | 6 | 85 | 0.32 | 2.2 | 1.7 |
| 048 | 05 | 061441.15 | 9029.53 | 83007.48 | 39.17✓ | 3.2 | 10 | 54 | 263 | 0.33 | 5.2 | 1.7 |
| 049 | 05 | 070931.49 | 9056.99 | 83049.97 | 15.56 | 2.3 | 5 | 3 | 216 | 0.15 | 4.3 | 2.7 |
| 050 | 05 | 113421.20 | 9058.99 | 83048.68 | 6.00 | 4.2 | 4 | 10 | 253 | 0.35 | 4.0 | 3.3* |
| 051 | 05 | 114016.50 | 10001.30 | 83045.94 | 5.00 | 4.0 | 5 | 10 | 206 | 0.30 | 7.0 | 1.2* |
| 052 | 05 | 144658.59 | 9031.76 | 83050.56 | 18.89 | 3.7 | 12 | 10 | 180 | 0.29 | 2.1 | 3.1* |
| 053 | 05 | 171025.32 | 9050.20 | 83026.04 | 14.54 | 2.9 | 8 | 38 | 299 | 0.19 | 1.8 | 5.7 |
| 054 | 05 | 215047.77 | 9026.12 | 83054.74 | 36.97✓ | 2.3 | 8 | 21 | 216 | 0.33 | 3.8 | 5.3 |
| 055 | 06 | 053250.44 | 9038.03 | 83039.39 | 5.00 | 3.2 | 6 | 14 | 259 | 0.27 | 5.5 | 3.3 |
| 056 | 06 | 054558.19 | 9025.81 | 82056.39 | 42.06✓ | 3.3 | 9 | 91 | 328 | 0.46 | *** | *** |
| 057 | 06 | 070708.27 | 9028.39 | 83003.14 | 36.10✓ | 3.0 | 5 | 84 | 335 | 0.16 | 7.5 | 1.9 |
| 058 | 07 | 015354.77 | 8032.74 | 83045.04 | 30.00✓ | 3.7 | 9 | 108 | 310 | 0.40 | 7.7 | 4.2 |
| 059 | 07 | 143629.66 | 9011.26 | 84004.92 | 39.70✓ | 3.2 | 6 | 28 | 300 | 0.34 | 5.8 | 2.6 |
| 060 | 07 | 163815.79 | 9049.85 | 83021.19 | 15.16 | 3.6 | 13 | 33 | 175 | 0.26 | 1.7 | 4.9 |
| 061 | 07 | 234951.33 | 9045.13 | 83001.15 | 25.00 | 3.7 | 10 | 26 | 276 | 0.19 | 2.4 | 2.2 |
| 062 | 08 | 073225.04 | 9051.99 | 84020.88 | 12.96 | 3.3 | 12 | 26 | 111 | 0.38 | 2.4 | 4.1 |
| 063 | 08 | 122303.19 | 9054.72 | 83051.76 | 13.00 | 2.9 | 7 | 13 | 214 | 0.26 | 2.3 | 3.7 |
| 064 | 08 | 130903.73 | 9043.55 | 83043.63 | 25.00 | 3.0 | 6 | 13 | 215 | 0.29 | 3.9 | 6.7 |
| 065 | 08 | 143246.13 | 9030.35 | 84016.95 | 50.31 | 2.9 | 7 | 15 | 169 | 0.07 | 1.1 | 1.7 |
| 066 | 08 | 194257.69 | 9029.94 | 82047.84 | 25.00 | 3.9 | 9 | 62 | 298 | 0.38 | 6.3 | 4.1 |
| 067 | 08 | 220744.84 | 9042.23 | 83051.81 | 5.00 | 3.3 | 8 | 16 | 112 | 0.24 | 1.3 | 1.5 |
| 068 | 08 | 231947.14 | 9053.32 | 84021.73 | 37.39✓ | 3.0 | 7 | 23 | 217 | 0.26 | 5.7 | 5.7 |
| 069 | 08 | 232915.93 | 8023.53 | 82029.87 | 12.00 | 3.9 | 8 | 189 | 343 | 0.48 | 14.6 | 5.5 |
| 070 | 09 | 070932.38 | 9043.06 | 83052.17 | 7.08 | 3.4 | 7 | 15 | 130 | 0.35 | 1.2 | 2.1 |
| 071 | 09 | 093330.95 | 9042.72 | 83052.62 | 7.12 | 3.4 | 8 | 14 | 82 | 0.32 | 1.5 | 2.9 |
| 072 | 09 | 181430.90 | 9047.51 | 85054.69 | 5.88 | 2.8 | 5 | 11 | 191 | 0.29 | 5.3 | 4.2 |
| 073 | 09 | 200314.90 | 9043.29 | 83058.25 | 8.40 | 2.7 | 9 | 4 | 90 | 0.38 | 1.9 | 2.7 |
| 074 | 10 | 014822.63 | 9043.78 | 83051.05 | 5.85 | 3.2 | 6 | 14 | 122 | 0.31 | 2.0 | 2.7 |
| 075 | 10 | 023052.33 | 9049.95 | 84001.56 | 6.71 | 2.8 | 6 | 10 | 180 | 0.14 | 2.2 | 1.6 |
| 076 | 10 | 061524.50 | 9022.11 | 82049.97 | 30.00✓ | 3.2 | 6 | 73 | 304 | 0.16 | 3.5 | 1.8 |
| 077 | 10 | 084238.10 | 9037.41 | 82053.27 | 29.85 | 3.1 | 5 | 45 | 295 | 0.06 | 2.1 | 1.2 |
| 078 | 10 | 123940.19 | 9029.11 | 83040.89 | 4.63 | 3.7 | 7 | 11 | 213 | 0.13 | 1.3 | 0.7 |
| 079 | 10 | 214125.10 | 9033.69 | 83008.77 | 25.00 | 3.8 | 8 | 47 | 262 | 0.43 | 6.0 | 3.1 |
| 080 | 10 | 232914.89 | 9042.57 | 83055.15 | 13.63 | 3.0 | 4 | 10 | 164 | 0.21 | *** | *** |
| 081 | 11 | 015046.43 | 9054.11 | 83005.54 | 11.44 | 2.9 | 8 | 9 | 260 | 0.42 | 7.8 | 8.8 |
| 082 | 11 | 032628.97 | 9030.83 | 83047.93 | 26.66 | 2.6 | 9 | 6 | 200 | 0.18 | 1.3 | 1.9 |
| 083 | 11 | 043440.91 | 9052.14 | 82059.81 | 31.74✓ | 3.2 | 7 | 16 | 303 | 0.29 | *** | 6.2 |
| 084 | 11 | 113038.90 | 9038.68 | 84011.43 | 14.39 | 2.8 | 8 | 23 | 211 | 0.28 | 2.7 | 5.4 |
| 085 | 12 | 205905.24 | 9042.73 | 83052.83 | 12.54 | 3.4 | 12 | 14 | 103 | 0.34 | 1.7 | 2.0 |
| 086 | 12 | 223152.52 | 9041.54 | 84009.30 | 5.00 | 2.7 | 7 | 18 | 200 | 0.29 | 3.2 | 2.3 |
| 087 | 12 | 000016.15 | 9024.30 | 85020.56 | 23.53 | 4.0 | 10 | 55 | 249 | 0.31 | 5.7 | 3.6 |
| 088 | 13 | 013049.26 | 9042.06 | 84014.57 | 7.15 | 2.5 | 6 | 27 | 173 | 0.26 | 3.4 | 5.7 |
| 089 | 13 | 044732.37 | 9051.34 | 84012.53 | 18.83 | 2.7 | 7 | 19 | 297 | 0.11 | 1.7 | 2.2 |
| 090 | 13 | 214551.20 | 9048.49 | 83018.92 | 21.13 | 3.6 | 10 | 31 | 188 | 0.34 | 3.9 | 3.9 |

071-075

JUNIO 1991

| No | DIA | T. ORIGIN | LAT.N | LONG.W | DEPTH | MAG | NO | DM | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|----------|--------|-----|----|-----|-----|------|------|------|
| 091 | 14 | 014512.60 | 9048.69 | 83021.65 | 9.41 | 3.2 | 11 | 35 | 179 | 0.36 | 2.0 | 4.5 |
| 092 | 14 | 125851.92 | 9031.04 | 83041.76 | 5.72 | 3.2 | 8 | 8 | 275 | 0.21 | 2.4 | 0.8 |
| 093 | 14 | 225455.19 | 9035.73 | 83040.16 | 6.16 | 3.1 | 9 | 11 | 268 | 0.28 | 3.6 | 1.9 |
| 094 | 15 | 021424.19 | 9023.23 | 82057.02 | 25.00 | 4.2 | 7 | 91 | 328 | 0.29 | 9.5 | 6.8 |
| 095 | 15 | 045430.19 | 9033.42 | 83038.23 | 15.01 | 3.1 | 6 | 13 | 303 | 0.30 | 3.1 | 1.4 |
| 096 | 15 | 055040.89 | 9043.99 | 83018.94 | 20.92 | 3.4 | 5 | 52 | 312 | 0.01 | 1.3 | 0.8 |
| 097 | 15 | 071424.64 | 9049.13 | 83026.81 | 7.62 | 3.0 | 8 | 45 | 297 | 0.28 | 3.5 | *** |
| 098 | 15 | 111237.39 | 10014.92 | 83008.97 | 25.00 | 3.5 | 7 | 80 | 330 | 0.16 | 2.0 | 6.1 |
| 099 | 16 | 002722.85 | 9055.29 | 83051.59 | 7.85 | 3.0 | 5 | 7 | 192 | 0.39 | 1.8 | 6.6 |
| 100 | 16 | 010425.12 | 9037.18 | 82045.97 | 15.18 | 3.6 | 7 | 109 | 333 | 0.09 | 2.6 | 2.9 |
| 101 | 16 | 033036.71 | 9022.13 | 85033.40 | 39.22✓ | 4.0 | 8 | 72 | 267 | 0.21 | 3.4 | 1.3 |
| 102 | 16 | 164528.57 | 9013.74 | 85018.36 | 25.00 | 3.7 | 12 | 72 | 299 | 0.29 | 4.7 | 2.8 |
| 103 | 16 | 170939.02 | 9050.20 | 83030.10 | 18.24 | 3.1 | 9 | 30 | 288 | 0.21 | 2.6 | 3.4 |
| 104 | 16 | 184757.37 | 9042.16 | 83052.90 | 14.29 | 2.8 | 6 | 14 | 148 | 0.21 | 2.7 | 2.7 |
| 105 | 16 | 203832.17 | 9041.09 | 83024.98 | 33.75✓ | 3.7 | 8 | 40 | 303 | 0.42 | 5.6 | 2.3 |
| 106 | 17 | 014505.71 | 10008.06 | 83049.97 | 25.42 | 3.1 | 5 | 17 | 304 | 0.45 | 21.4 | 7.5 |
| 107 | 17 | 020756.51 | 9029.11 | 83050.37 | 35.41✓ | 2.8 | 9 | 12 | 211 | 0.30 | 2.7 | 3.6 |
| 108 | 17 | 024350.78 | 10000.85 | 83046.96 | 5.92 | 3.0 | 8 | 7 | 261 | 0.30 | 2.8 | 0.9 |
| 109 | 17 | 142149.78 | 9027.93 | 82037.64 | 21.89 | 3.8 | 8 | 125 | 335 | 0.19 | 5.2 | 2.2 |
| 110 | 17 | 171849.82 | 9053.58 | 84020.91 | 19.88 | 2.8 | 11 | 24 | 109 | 0.35 | 2.8 | 6.2 |
| 111 | 18 | 014358.23 | 9041.24 | 82054.03 | 20.68 | 3.5 | 12 | 95 | 331 | 0.33 | 4.5 | 3.4 |
| 112 | 18 | 023304.73 | 9057.43 | 83049.34 | 6.00 | 2.9 | 5 | 3 | 181 | 0.07 | 3.5 | 1.4 |
| 113 | 18 | 104319.37 | 9023.25 | 83045.60 | 25.00 | 3.1 | 8 | 19 | 273 | 0.45 | 4.7 | 4.3 |
| 114 | 19 | 061644.90 | 9045.73 | 84001.86 | 6.15 | 3.9 | 9 | 4 | 83 | 0.24 | 1.5 | 0.9 |
| 115 | 19 | 145317.54 | 9044.63 | 84000.28 | 6.39 | 2.6 | 8 | 0 | 211 | 0.23 | 3.2 | 1.2 |
| 116 | 19 | 175138.78 | 9050.83 | 83026.48 | 10.64 | 3.3 | 12 | 37 | 238 | 0.36 | 2.6 | 2.6 |
| 117 | 19 | 192614.49 | 9007.41 | 83045.60 | 15.01 | 3.9 | 6 | 48 | 307 | 0.53 | 47.9 | 8.4 |
| 118 | 20 | 075352.69 | 9036.55 | 83030.97 | 26.06 | 3.4 | 4 | 27 | 297 | 0.20 | *** | *** |
| 119 | 20 | 081140.69 | 10002.73 | 83040.92 | 12.00 | 4.3 | 8 | 125 | 335 | 0.19 | 5.2 | 2.2* |
| 120 | 20 | 202944.73 | 9026.57 | 82044.69 | 22.25 | 3.5 | 10 | 99 | 272 | 0.23 | 2.2 | 3.7 |
| 121 | 21 | 054316.98 | 9030.81 | 82032.48 | 56.46✓ | 3.6 | 6 | 151 | 337 | 0.53 | 13.3 | 12.1 |
| 122 | 21 | 115539.99 | 9035.95 | 83040.37 | 19.60 | 3.4 | 6 | 11 | 265 | 0.51 | 7.2 | 10.6 |
| 123 | 21 | 220815.80 | 9033.42 | 83045.57 | 10.27 | 3.0 | 10 | 0 | 150 | 0.33 | 2.0 | 2.5 |
| 124 | 22 | 001143.79 | 9015.48 | 82052.38 | 32.54✓ | 3.8 | 3 | 54 | 358 | 0.04 | *** | *** |
| 125 | 22 | 015329.59 | 9051.77 | 82058.89 | 2.50 | 4.9 | 12 | 75 | 330 | 0.33 | 4.3 | 4.6* |
| 126 | 22 | 073546.64 | 9033.40 | 83045.53 | 5.67 | 3.0 | 7 | 0 | 167 | 0.39 | 4.6 | 2.7 |
| 127 | 22 | 091151.17 | 9029.23 | 82030.60 | 25.00 | 3.6 | 9 | 117 | 287 | 0.34 | 3.8 | 3.0 |
| 128 | 22 | 140946.77 | 9046.46 | 83005.98 | 5.00 | 3.1 | 12 | 75 | 258 | 0.43 | 7.1 | 4.7 |
| 129 | 22 | 232409.97 | 9053.59 | 84039.92 | 57.23✓ | 3.3 | 16 | 49 | 160 | 0.40 | 2.9 | 3.9 |
| 130 | 23 | 015728.00 | 9038.51 | 84000.76 | 19.20 | 4.1 | 4 | 11 | 170 | 0.12 | 4.4 | 4.3* |
| 131 | 23 | 020101.57 | 9044.55 | 84000.29 | 13.35 | 2.5 | 7 | 0 | 189 | 0.48 | 3.1 | 3.7 |
| 132 | 23 | 023011.89 | 9044.63 | 84000.28 | 12.00 | 2.3 | 10 | 0 | 139 | 0.33 | 1.4 | 2.7 |
| 133 | 23 | 024610.83 | 9038.60 | 83040.46 | 20.22 | 3.7 | 9 | 13 | 248 | 0.48 | 4.9 | 4.4 |
| 134 | 23 | 024727.84 | 9041.26 | 82058.44 | 6.72 | 3.6 | 10 | 87 | 262 | 0.34 | 7.1 | 6.8 |
| 135 | 23 | 051132.13 | 9026.56 | 82059.27 | 27.99 | 3.3 | 16 | 86 | 250 | 0.14 | 2.4 | 7.6 |

10
11
12
13
14

JUNIO 1991

| No | DIA | T. ORIGIN | LAT.N | LONG.W | DEPTH | MAG | NO | DM | GAP | RMS | ERH | ERZ |
|------|-----|-----------|---------|----------|-------|-----|----|-----|-----|------|------|------|
| 136 | 24 | 032603.62 | 9043.09 | 82057.45 | 5.00 | 3.3 | 10 | 90 | 264 | 0.33 | 5.8 | 4.9 |
| 137 | 25 | 090150.79 | 9037.55 | 82016.17 | 12.00 | 3.8 | 10 | 146 | 300 | 1.02 | 8.2 | 10.2 |
| 138 | 25 | 095754.25 | 9033.53 | 82017.33 | 13.17 | 4.1 | 8 | 139 | 299 | 0.21 | 2.3 | 4.2 |
| 139 | 25 | 122733.69 | 9033.42 | 83045.60 | 25.00 | 3.4 | 6 | 0 | 145 | 0.35 | 8.3 | 9.7 |
| *140 | 25 | 132074.76 | 9029.77 | 82026.84 | 5.00 | 3.7 | 11 | 122 | 291 | 0.57 | 17.1 | 14.3 |
| | | 3 | | | | | | | | | | |
| 141 | 25 | 181719.97 | 9017.32 | 83047.65 | 20.58 | 2.8 | 7 | 30 | 248 | 0.28 | 7.3 | 7.5 |
| 142 | 25 | 203042.40 | 9019.99 | 82046.65 | 25.00 | 3.1 | 10 | 87 | 268 | 0.54 | 7.5 | 12.5 |
| 143 | 26 | 052754.05 | 9030.61 | 83026.31 | 11.48 | 3.1 | 5 | 35 | 318 | 0.23 | 4.3 | 3.3 |
| 144 | 26 | 062114.00 | 9028.23 | 84018.00 | 39.73 | 3.6 | 6 | 16 | 262 | 0.31 | 7.6 | 3.4 |
| 145 | 26 | 143006.79 | 9047.60 | 83019.61 | 6.51 | 3.0 | 10 | 33 | 121 | 0.19 | 1.4 | 2.3 |
| 146 | 27 | 192653.70 | 9055.97 | 83011.15 | 7.27 | 3.7 | 10 | 66 | 262 | 0.25 | 3.6 | 2.4 |
| 147 | 27 | 222414.71 | 9048.42 | 83019.57 | 6.79 | 3.4 | 11 | 32 | 124 | 0.40 | 2.2 | 3.5 |
| 148 | 28 | 012442.75 | 8006.62 | 83021.37 | 39.97 | 3.6 | 5 | 64 | 310 | 0.03 | 4.7 | 2.1 |
| 149 | 28 | 035031.20 | 9053.59 | 83024.90 | 7.07 | 4.0 | 8 | 35 | 153 | 0.24 | 2.5 | 4.5* |
| 150 | 28 | 130351.00 | 9045.60 | 83023.33 | 12.82 | 4.7 | 10 | 30 | 116 | 0.45 | 3.4 | 5.0* |
| 151 | 28 | 131319.18 | 9047.36 | 83018.39 | 17.57 | 3.1 | 11 | 32 | 125 | 0.31 | 1.4 | 6.8 |
| 152 | 28 | 141442.17 | 9047.04 | 83026.47 | 27.54 | 3.7 | 7 | 37 | 173 | 0.27 | 3.2 | 5.0 |
| 153 | 28 | 142955.80 | 9045.88 | 83015.25 | 34.48 | 3.8 | 11 | 28 | 139 | 0.42 | 6.2 | 6.7 |
| 154 | 29 | 013800.97 | 9050.61 | 84004.64 | 14.02 | 3.3 | 7 | 11 | 171 | 0.41 | 3.8 | 8.1 |
| 155 | 29 | 092715.00 | 9055.08 | 83044.04 | 3.20 | 3.6 | 6 | 7 | 142 | 0.19 | 1.5 | 2.1* |
| 156 | 29 | 112239.05 | 9024.96 | 84014.76 | 17.98 | 3.4 | 5 | 56 | 269 | 0.25 | 1.9 | 9.8 |
| 157 | 30 | 081246.10 | 9018.72 | 82048.30 | 4.10 | 4.1 | 6 | 80 | 265 | 0.25 | 5.4 | 3.2* |
| 158 | 30 | 154432.71 | 9042.29 | 83040.16 | 45.00 | 4.1 | 4 | 15 | 303 | 0.19 | *** | *** |
| 159 | 30 | 160605.40 | 9028.09 | 82044.75 | 23.19 | 4.0 | 8 | 120 | 347 | 0.40 | 12.5 | 2.6 |
| 160 | 30 | 225536.00 | 9045.52 | 83010.96 | 25.00 | 4.6 | 10 | 60 | 250 | 0.19 | 4.4 | 4.2* |

PARTE B

LECTURAS DE LOS TIEMPOS DE ARRIBO DE LOS SISMOS
REGIONALES, TELESISMOS Y EVENTOS LOCALES CON M >= 4,0

JUNIO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|-----|-----|-----------|------|------|-----|
| SJS | 01 | 025547.00 | EP | Z | + |
| ICR | 01 | 025548.00 | EP | Z | + |
| URS | 01 | 025555.00 | EP | Z | + |
| BUS | 01 | 025554.00 | EP | Z | |
| JCR | 01 | 025541.30 | EP | Z | |
| SRA | 01 | 025537.20 | IP | Z | C |

Telesismo

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 01 | 125129.80 | EP | Z | |
| ICR | 01 | 125125.00 | IP | Z | D |
| LCR2 | 01 | 125126.20 | IP | Z | D |
| URS | 01 | 125122.50 | IP | Z | C |
| BUS | 01 | 125122.00 | IP | Z | C |
| ACR | 01 | 125119.00 | IP | Z | D |
| SRA | 01 | 125133.00 | EP | Z | |

El Salvador, Mb= 4,2

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 01 | 165223.00 | EP | Z | + |
| LCR2 | 01 | 165221.80 | IP | Z | C |
| ICR | 01 | 165219.90 | IP | Z | C |
| SRA | 01 | 165230.00 | IP | Z | D |
| URS | 01 | 165217.80 | IP | Z | C |

Regional

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 03 | 062645.50 | EP | Z | |
| | | 2703.00 | S | Z | |
| URS | 03 | 062641.20 | IP | Z | D |
| ICR | 03 | 062642.50 | IP | Z | D |
| LCR2 | 03 | 062644.30 | IP | Z | C |
| | | 2659.90 | S | Z | |
| BUS | 03 | 062640.00 | IP | Z | C |
| | | 2652.90 | S | Z | |
| QCR | 03 | 062647.00 | IP | Z | C |
| | | 2706.00 | S | Z | |
| SRA | 03 | 062653.00 | IP | Z | D |
| | | 2713.00 | S | Z | |
| JCR | 03 | 062701.60 | EP | Z | |
| | | 2734.80 | S | | |

45 Km al Sureste de Limón, Costa Rica, Md= 4,0

| | | | | | |
|------|----|-----------|----|---|--|
| SJS | 04 | 191133.60 | EP | Z | |
| LCR2 | 04 | 191134.00 | EP | Z | |
| URS | 04 | 191128.00 | EP | Z | |
| ICR | 04 | 191131.00 | EP | Z | |

Sur de Panamá, Mb=4,8

JUNIO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|--|-----|-----------|------|------|-----|
| SJS | 05 | 012255.80 | IP | Z | C |
| URS | 05 | 012305.00 | EP | Z | |
| ICR | 05 | 012256.00 | EP | Z | |
| Regional | | | | | |
| SJS | 05 | 113421.20 | IP | Z | C |
| ICR | 05 | 113417.50 | IP | Z | - |
| LCR2 | 05 | 113422.10 | IP | Z | D |
| URS | 05 | 113419.80 | IP | Z | C |
| 3 Km al Este del cráter del Volcán Irazú, Costa Rica, Md=4,2 | | | | | |
| SJS | 05 | 114016.50 | IP | Z | C |
| ICR | 05 | 114012.70 | IP | Z | D |
| URS | 05 | 114015.30 | IP | Z | C |
| | | 4024.80 | S | Z | |
| LCR2 | 05 | 114017.30 | IP | Z | D |
| 7 Km al NW del cráter del Volcán Irazú, Costa Rica, Md= 4,0 | | | | | |
| SJS | 07 | 065932.00 | EP | Z | |
| Telesismo | | | | | |
| SJS | 07 | 121019.00 | EP | Z | |
| LCR2 | 07 | 121023.00 | EP | Z | |
| Telesismo | | | | | |
| SJS | 08 | 083202.70 | EP | Z | |
| LCR2 | 08 | 083203.80 | IP | Z | D |
| URS | 08 | 083204.80 | EP | Z | |
| Telesismo | | | | | |
| SJS | 09 | 075800.00 | IP | Z | C |
| LCR2 | 09 | 075759.00 | EP | Z | D |
| JCR | 09 | 075754.20 | IP | Z | C |
| Telesismo | | | | | |
| SJS | 10 | 053019.00 | EP | Z | |
| Telesismo | | | | | |
| SJS | 10 | 174322.60 | IP | Z | C |
| LCR2 | 10 | 174323.00 | EP | Z | |
| Telesismo | | | | | |
| SJS | 11 | 053055.80 | IP | Z | C |
| URS | 11 | 053059.80 | EP | Z | |
| Fuera de la costa Pacífica de México, Mb=5,4 | | | | | |
| SJS | 12 | 004847.00 | IP | Z | C |
| ICR | 12 | 004849.20 | EP | Z | |
| URS | 12 | 004843.90 | IP | Z | C |
| Cerca de la costa de Ecuador, Mb=5,8 | | | | | |

JUNIO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| SJS | 13 | 000041.30 | IP | Z | D |
| ICR | 13 | 000045.20 | IP | Z | C |
| URS | 13 | 000045.00 | IP | Z | D |
| SRA | 13 | 000037.20 | EP | Z | C |
| BUS | 13 | 000044.10 | IP | Z | D |
| JCR | 13 | 000026.70 | IP | Z | D |
| VCR | 13 | 000030.80 | IP | Z | C |
| QCR | 13 | 000037.50 | EP | Z | |
| LCR2 | 13 | 000041.20 | IP | Z | C |
| | 13 | 0059.00 | S | Z | |

28 Km al SW de Cabo Blanco, Costa Rica, Md=4,0

| | | | | | |
|-----------|----|-----------|----|---|---|
| SJS | 15 | 012545.30 | IP | Z | D |
| ICR | 15 | 012548.50 | EP | Z | |
| Telesismo | | | | | |
| SJS | 15 | 021447.90 | IP | Z | C |
| | | 1515.20 | S | | |
| JCR | 15 | 021501.30 | IP | Z | |
| SRA | 15 | 021454.20 | IP | Z | D |
| QCR | 15 | 021447.00 | IP | Z | C |
| LCR2 | 15 | 021446.00 | IP | Z | D |
| BUS | 15 | 021441.30 | IP | Z | C |
| ICR | 15 | 021444.80 | IP | Z | D |

48 Km al Noreste de Buenos Aires, Costa Rica, Md=4,2

| | | | | | |
|-----------|----|-----------|----|---|---|
| SJS | 15 | 055447.00 | EP | Z | |
| Telesismo | | | | | |
| SJS | 15 | 125219.80 | EP | Z | |
| ICR | 15 | 125222.30 | EP | Z | |
| LCR2 | 15 | 125219.20 | IP | Z | C |
| Regional | | | | | |
| SJS | 19 | 035719.00 | EP | Z | |
| SRA | 19 | 035711.90 | EP | Z | |
| JCR | 19 | 035704.00 | IP | Z | D |
| VCR | 19 | 035655.50 | IP | Z | C |

El Salvador, Mb=4,8

| | | | | | |
|----------|----|-----------|----|---|---|
| SJS | 20 | 050840.30 | EP | Z | |
| ICR | 20 | 050840.90 | EP | Z | |
| VCR | 20 | 050838.00 | IP | Z | C |
| ACR | 20 | 050844.00 | EP | Z | |
| Regional | | | | | |
| SJS | 20 | 081149.30 | IP | Z | C |
| ICR | 20 | 081145.50 | IP | Z | D |
| LCR2 | 20 | 081150.50 | IP | Z | D |

1 Km. Sur del Cráter del Volcán Irazú, Md=4,3

JUNIO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| SJS | 21 | 045229.10 | EP | Z | - |
| URS | 21 | 045233.00 | IP | Z | D |
| LCR2 | 21 | 045231.00 | EP | Z | |
| ICR | 21 | 045231.50 | EP | Z | |
| QCR | 21 | 045231.00 | EP | Z | |
| ACR | 21 | 045248.00 | IP | Z | D |
| BUS | 21 | 045235.90 | EP | Z | + |
| JCR | 21 | 045216.60 | IP | Z | D |
| VCR | 21 | 045208.40 | IP | Z | D |

El Salvador, Mb= 4,2

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 21 | 062915.20 | EP | Z | |
| URS | 21 | 062938.00 | EP | Z | |
| LCR2 | 21 | 062917.00 | EP | Z | |
| JCR | 21 | 062902.20 | IP | Z | D |

El Salvador, Mb= 5,4

| | | | | | |
|------|----|-----------|----|---|---|
| LCR2 | 23 | 015725.30 | IP | Z | D |
| URS | 23 | 015728.20 | IP | Z | D |
| ICR | 23 | 015729.50 | IP | Z | D |
| | | 5734.00 | S | Z | D |
| SJS | 23 | 015728.00 | IP | Z | C |
| | | 5733.00 | S | Z | |

2 Km. al S-SE de San Marcos de Tarrazú, Costa Rica, Md= 4,1

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 23 | 133300.30 | EP | Z | |
| URS | 23 | 133303.60 | EP | Z | D |
| ICR | 23 | 133303.10 | IP | Z | D |
| LCR2 | 23 | 133302.80 | IP | Z | |
| VCR | 23 | 133242.60 | IP | Z | |
| BUS | 23 | 133306.00 | EP | Z | |
| ACR | 23 | 133320.10 | EP | Z | |

Regional

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 23 | 212932.90 | IP | Z | C |
| ICR | 23 | 212932.50 | IP | Z | C |
| QCR | 23 | 212931.00 | EP | Z | |
| VCR | 23 | 212939.00 | IP | Z | C |
| ACR | 23 | 212920.00 | IP | Z | C |
| BUS | 23 | 212928.30 | IP | Z | C |
| JCR | 23 | 212935.20 | IP | Z | C |

Prov. Santiago del Estero, Argentina, Mb= 6,4

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 23 | 232149.00 | EP | Z | |
| ICR | 23 | 232148.50 | IP | Z | C |
| JCR | 23 | 232151.30 | IP | Z | C |
| BUS | 23 | 232144.30 | IP | Z | C |
| ACR | 23 | 232135.90 | IP | Z | C |
| VCR | 23 | 232155.00 | IP | Z | C |

Provincia, Santiago del Estero, Argentina, Mb= 5,5

JUNIO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|--|-----|-----------|------|------|-----|
| SJS | 24 | 012900.00 | EP | Z | |
| BUS | 24 | 012908.00 | EP | Z | |
| URS | 24 | 012905.00 | EP | Z | |
| JCR | 24 | 012843.50 | | Z | |
| Regional | | | | | |
| ACR | 25 | 095818.30 | IP | Z | D |
| | 25 | 095835.80 | S | Z | |
| BUS | 25 | 095822.20 | IP | Z | C |
| | | 5842.80 | S | Z | |
| URS | 25 | 095822.50 | IP | Z | |
| ICR | 25 | 095825.00 | IP | Z | D |
| LCR2 | 25 | 095826.50 | IP | Z | D |
| | | 5850.00 | S | Z | |
| SJS | 25 | 095827.90 | EP | Z | |
| JCR | 25 | 095843.00 | IP | Z | C |
| Bocas del Toro, Panamá, Md=4,1 | | | | | |
| SJS | 25 | 210549.80 | IP | Z | C |
| ICR | 25 | 210549.00 | IP | Z | C |
| LCR2 | 25 | 210547.00 | IP | Z | D |
| URS | 25 | 210546.90 | IP | Z | D |
| VCR | 25 | 210602.30 | IP | Z | D |
| JCR | 25 | 210554.50 | IP | Z | D |
| BUS | 25 | 210543.30 | IP | Z | D |
| ACR | 25 | 210527.30 | IP | Z | C |
| Regional | | | | | |
| SJS | 28 | 035031.20 | IP | Z | C |
| | | 5040.00 | S | Z | |
| ICR | 28 | 035027.40 | IP | Z | C |
| LCR2 | 28 | 035030.90 | IP | Z | D |
| | | 5039.60 | S | Z | |
| LIO | 28 | 035025.70 | IP | Z | C |
| BUS | 28 | 035028.40 | IP | Z | D |
| QCR | 28 | 035035.40 | IP | Z | C |
| ACR | 28 | 035046.70 | IP | Z | |
| SRA | 28 | 035037.80 | IP | Z | D |
| | | 5052.60 | S | Z | |
| 30 Km. al S E de Turrialba Moravia de Chirripó, Costa Rica, Md= 4,0 Int; III La Suiza | | | | | |
| SJS | 28 | 130351.00 | IP | Z | |
| | | 0359.80 | S | Z | |
| ACR | 28 | 130357.00 | IP | Z | C |
| ICR | 28 | 130347.10 | IP | Z | D |
| LCR2 | 28 | 130349.80 | IP | Z | C |
| LIO | 28 | 130342.30 | IP | Z | D |
| | | 0354.80 | S | Z | |
| VCR | 28 | 130416.50 | IP | Z | C |
| FOR | 28 | 130402.20 | IP | Z | C |
| QCR | 28 | 130353.70 | IP | Z | D |
| BUS | 28 | 130346.40 | IP | Z | D |
| 3,7 Km. SE de Turrialba, Río Chirripó Md= 4,7. Int; IV Suiza, III Bananito. | | | | | |

| |
|------------|
| JUNIO 1991 |
|------------|

| EST | DIA | TIEMPO | FASE | COMP | POL |
|-----|-----|-----------|------|------|-----|
| SJS | 29 | 232504.20 | EP | Z | |
| ICR | 29 | 232505.50 | EP | Z | |
| BUS | 29 | 232508.90 | EP | Z | |

Cerca de la Costa Chiapas, México, Mb= 4,3

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 30 | 081246.10 | IP | Z | |
| | | 1256.00 | S | Z | |
| ICR | 30 | 081243.60 | IP | Z | D |
| | | 1248.20 | S | Z | |
| LCR2 | 30 | 081244.80 | IP | Z | |
| ACR | 30 | 081235.90 | IP | Z | C |
| | | 1247.00 | S | Z | |
| SRA | 30 | 081259.90 | IP | Z | D |
| | | 1319.00 | S | Z | |

29 Km. al Suroeste de Sixaola (Río Telire), Panamá, Md=4,1

| | | | | | |
|-----|----|-----------|----|---|--|
| SJS | 30 | 154444.00 | EP | Z | |
| URS | 30 | 154438.90 | EP | Z | |
| | | 4454.80 | S | Z | |
| ICR | 30 | 154443.00 | IP | Z | |
| LCR | 30 | 154440.10 | IP | Z | |

16,5 Km. al S E de Cartago, Costa Rica, Md= 4,1

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 30 | 160631.80 | IP | Z | D |
| | | 0653.80 | S | Z | |
| ICR | 30 | 160629.00 | IP | Z | |
| URS | 30 | 160626.20 | IP | Z | C |
| | | 0642.00 | S | Z | |
| LCR2 | 30 | 160630.00 | IP | Z | |
| | | 0649.00 | S | Z | |
| SRA | 30 | 160638.10 | IP | Z | D |
| | | 0713.00 | S | Z | |

1,7 Km. S W de Sixaola; Panamá, Md= 4,0

| | | | | | |
|-----|----|-----------|----|---|--|
| SJS | 30 | 172850.00 | EP | Z | |
| SRA | 30 | 172844.00 | EP | Z | |

Telesismo

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 30 | 225536.00 | IP | Z | C |
| | | 5552.00 | S | Z | |
| ICR2 | 30 | 225532.30 | IP | Z | C |
| | | 5544.40 | S | Z | |
| LCR | 30 | 225534.70 | IP | Z | C |
| BUS | 30 | 225531.10 | IP | Z | D |
| ACR | 30 | 225539.90 | IP | Z | D |
| URS | 30 | 225530.70 | IP | Z | C |
| SRA | 30 | 225542.80 | IP | Z | D |
| | | 5601.20 | S | | |

30 Km. S W de Limón, Costa Rica, Md=4,6. Int; III Limón, II San José.

CGM ANASIS, Ver 2.0

Diseño:

Guillermo Á Avila R

FEC m:01-06-1991

FEC M:30-06-1991

GMT=00h-24h

LAT= 7.50°-11.50°

LON=82.50°-86.50°

PRF= 0.0- 999.0 Km

MAG= 0.0- 9.9

SIMBOLOGIA:

M=3 □ M=4 ◇ M=5 +

M=6 △ M=7 ▽ M=8 ○

STA *

BASE.:JUN91

N SIS: 155

M ≤ 3.9: 139 4 ≤ M < 5: 16

5 ≤ M < 6: 0 6 ≤ M < 7: 0

7 ≤ M < 8: 0 M ≥ 8: 0

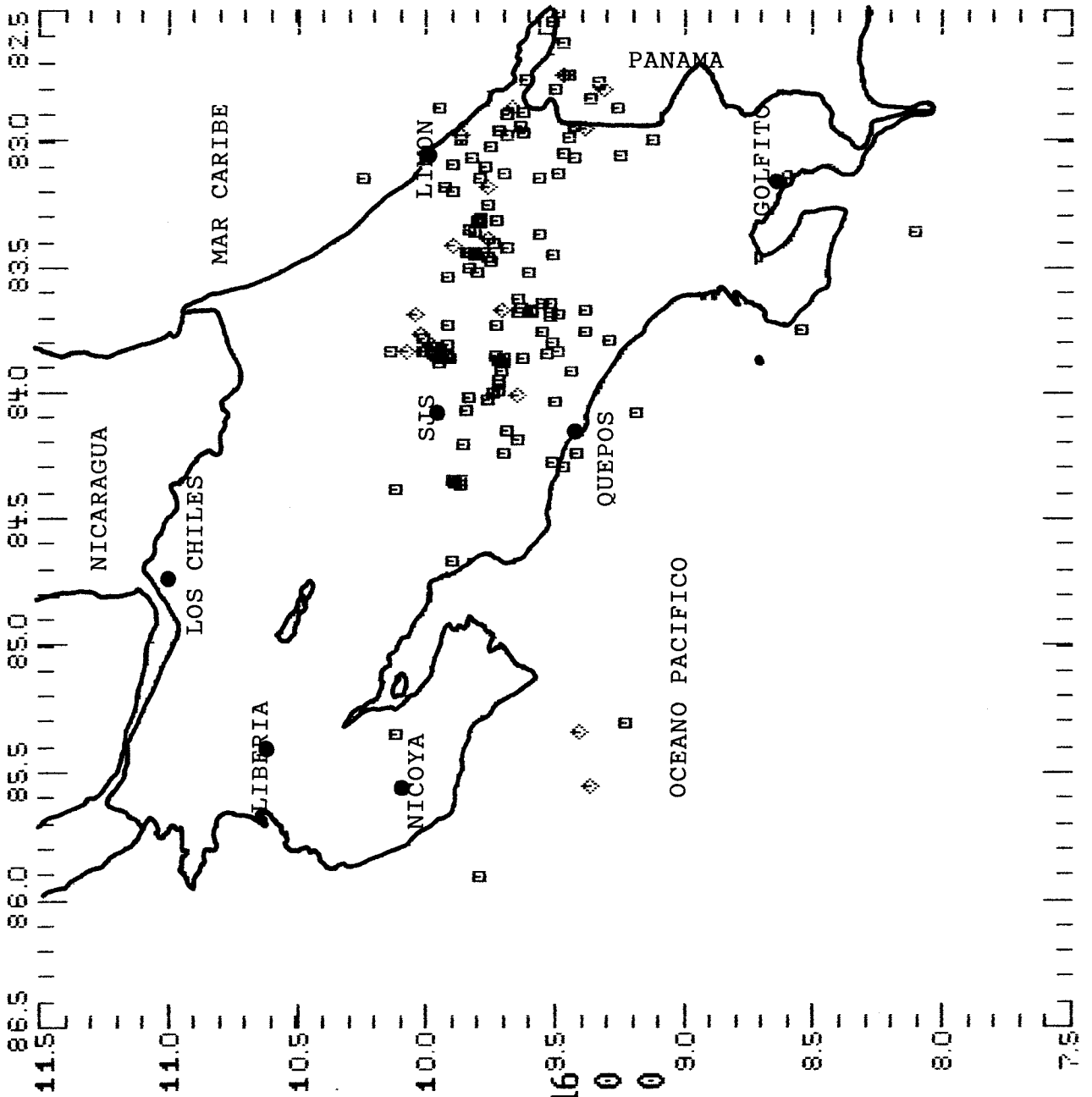
9.0

8.5

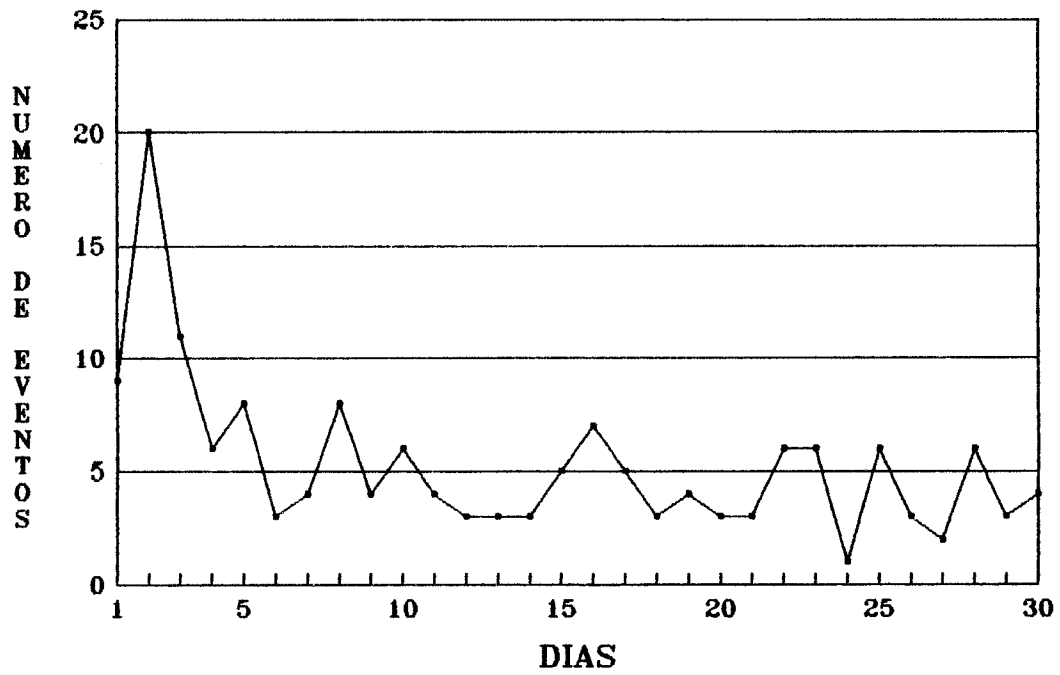
8.0

7.5

RED SISMOLÓGICA NACIONAL, ICE-UCR
MAPA DE EPICENTROS DE COSTA RICA

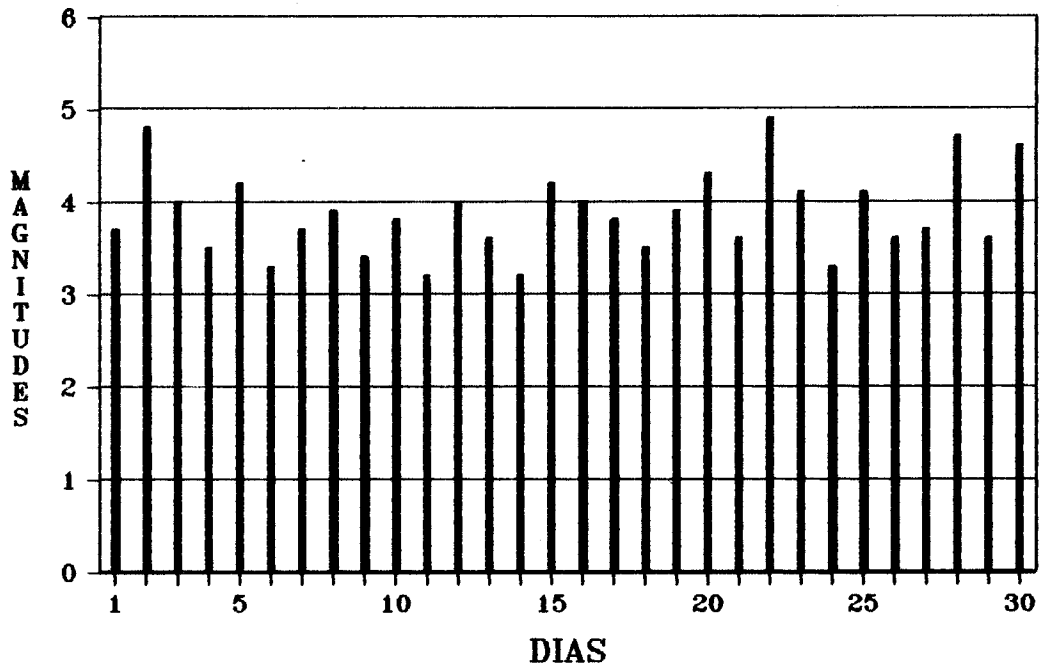


**RED SISMOLOGICA NACIONAL RSN: (ICE-UCR)
CURVA DE EVENTOS LOCALIZADOS**

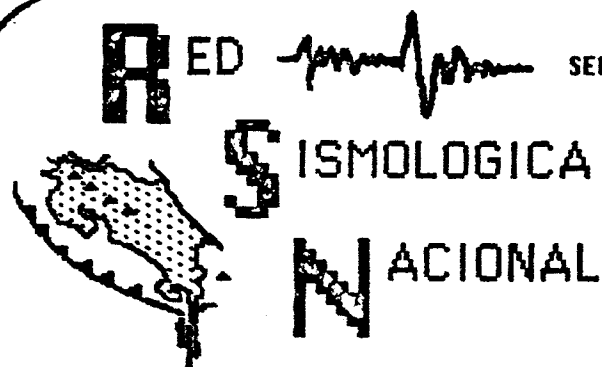


JUNIO DE 1991 (TOTAL DE EVENTOS 180)

**MAGNITUDES DE LOS EVENTOS LOCALIZADOS
DURANTE EL MES DE JUNIO 91**



EVENTO DE MAYOR MAGNITUD POR DIA



ICE-UCR, COSTA RICA

SECCION DE SISMOLOGIA E INGENIERIA SISMICA, DEPARTAMENTO
DE GEOLOGIA, INSTITUTO COSTARRICENSE DE ELECTRICIDAD,
APOD, 10032-1000, SAN JOSE
TEL 20-7741, FAX 31-4744

ESCUELA CENTROAMERICANA DE GEOLOGIA
UNIVERSIDAD DE COSTA RICA
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TEL 25-7801, FAX 34-2347

BOLETIN TRIMESTRAL

AÑO XVI No 133

PERIODO: AÑO 1991.

CONTENIDO:

- A : Parámetros sísmicos de los temblores localizados.
- B A : Tiempos de arribo de los sismos regionales, telesismos y temblores con Mb > 4.0 o reportados como sentidos.

ESTACIONES DE LA RED SISMOLOGICA NACIONAL (RSN : ICE-UCR).

| ESTACION | CODIGO | LATITUD | LONGITUD | ELEVACION |
|-----------------|--------|-----------|-----------|-----------|
| ADAMS | ACR | 8°39.19' | 83°10.08' | 500 m. |
| BUVIS | BUS | 9°33.32' | 83°45.50' | 3487 m. |
| CHIRIPA | AR6 | 10°26.75' | 84°54.59' | 1010 m. |
| JICARAL | JCR | 9°50.99' | 85°06.71' | 575 m. |
| LA LUCHA 2 | LCR2 | 9°44.53' | 84°00.18' | 1730 m. |
| LIMON | LIO | 10°00.30' | 83°02.10' | 62 m. |
| QUEPOS | QCR | 9°25.67' | 84°09.92' | 45 m. |
| SAN RAMON | SRA | 10°04.95' | 84°26.89' | 1160 m. |
| U de COSTA RICA | SJS | 9°56.35' | 84°03.25' | 1196 m. |
| VISTA DE MAR | VCR | 10°07.59' | 85°37.87' | 960 m. |
| VOLCAN IRAZU | ICR | 9°58.80' | 83°49.87' | 3302 m. |
| VOLCAN POAS 2 | VPS2 | 10°11.41' | 84°14.12' | 2570 m. |
| FORTUNA | FOR | 10°28.30' | 84°40.20' | 400 m. |
| PURISCAL | PRS | 09°51.03' | 84°18.67' | 1145 m. |
| URASCA | URS | 09°50.10' | 83°46.69' | 1500 m. |

EXPLICACION DE LOS DATOS

El presente boletín sismológico trimestral contiene la siguiente información:

PARTE A: Eventos locales y parámetros de los sismos localizados anualmente por las estaciones de la Red Sismológica Nacional (RSN: ICE-UCR).

PARTE B: La lectura de los tiempos de arribo para los eventos locales registrados por la RSN con $M_D \geq 4.0$, sismos regionales y telesismos; en las estaciones ACR, BUS, AR6, LCR2, LIO, QCR, SRA, SJS, VCR, ICR, FOR, JCR, VPS2, PRS y URS ya que estas son, actualmente las que tienen sus respectivos códigos reconocidos internacionalmente.

- 1-EST : Código de la estación que registro el evento.
- 2-DIA : Todas las fechas estan reportadas en el tiempo medio de Greenwich (TMG).
- 3-TIEMPO : Tiempo de origen (**PARTE A**) y tiempo de arribo de las fases (**PARTE B**), estan dados en horas, minutos segundos y decimas de segundo (TMG).
- 4-FASE : Una "i" o "e" precede el nombre de la fase para indicar el caracter del arribo: "i" (impetu), indica que el primer arribo fue impulsivo y la dirección del primer movimiento es evidente "e" (emersio), indica un comienzo gradual en el cual la dirección del movimiento es dudosa.
- 5-COMP. : Designa la componente (N, E o Z), de la estación sismográfica donde el tiempo de arribo fue medido
- 6-POL. : Polaridad, una "C" o una "D" representan un movimiento de compresión o dilatación, respectivamente. Indicada especialmente para las fases designadas con impetu (i).
- 7-PER. : Si se trata de la estación LCR2, entonces se anota si el dato es de período corto (PC), período medio (PM), o período largo (PL).
- 8-MAG(Md) : La magnitud reportada para los eventos locales, esta basada en la duración de la señal sísmica en la estación SJS, $MD = -1.21 + 2.38 \log (dur) + 0.0012 (dist. \text{hipoc.})$.
- 9-PROF. : Indica la profundidad en kilómetros a que se produjo el evento.

- 10-RMS. : Indica el error medio estándar, que da como resultado la localización por computadora, a través del programa HYPO71PC (versión 1: 1985).
- 11-ERH,ERZ: Datos de errores de la localización horizontal (H) y vertical (V), en kilómetros.
- 12-*** : Datos omitidos por la computadora o localización manual.
- 13- COMEN-
TARIOS: Indica si el epicentro es de sismos locales (con magnitud ≥ 4.0). Para telesismos y/o regionales se utiliza el reporte del NEIS. Los regionales se refieren a sismos fuera de las zonas limítrofes de Costa Rica.

Nota: Las estaciones **URS** y **PRS** fueron instaladas a mediados de octubre de 1990.

La sismicidad en el país es mayor a lo reportado en este boletín. Los eventos localizados que se reportan son los que se registran en la estación **SJS**, que es la que esta calibrada para el cálculo de la magnitud.

Este boletín trimestral comprende los meses de **ENERO, FEBRERO y MARZO DE 1991**, (boletines # 133, 134 y 135).

Editado por: Carlos Alberto Redondo Chavarría.
Escuela Centroamericana de Geología (UCR).

P A R T E A
S I S M O S L O C A L I Z A D O S
E N E R O 1 9 9 1

| NO | DIA | TIEMPO | OR. | LATITUD | LONGITUD | PROF | MAG | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|-----|----------|----------|------|-----|-----|------|------|------|
| 001 | 01 | 032730.73 | | 9°45.40 | 84°12.55 | 74.9 | 2.5 | 190 | 0.19 | 5.6 | 4.8 |
| 002 | 01 | 100830.85 | | 9°54.12 | 84°17.22 | 12.2 | 3.4 | 172 | 0.22 | 1.7 | 2.1 |
| 003 | 01 | 154347.57 | | 9°50.75 | 84°18.80 | 15.3 | 3.4 | 162 | 0.35 | 3.6 | 4.4 |
| 004 | 01 | 181310.72 | | 10°01.58 | 84°19.73 | 39.9 | 3.5 | 184 | 0.20 | 2.3 | 2.2 |
| 005 | 02 | 032530.01 | | 9°58.54 | 84°12.94 | 5.0 | 3.7 | 188 | 0.26 | 1.7 | 3.3 |
| 006 | 02 | 112810.88 | | 9°25.64 | 83°39.91 | 0.5 | 3.8 | 123 | 0.13 | 1.1 | 1.6 |
| 007 | 02 | 154354.84 | | 9°56.46 | 84°09.90 | 6.5 | 3.2 | 263 | 0.04 | 0.6 | 0.3 |
| 008 | 02 | 183628.70 | | 9°11.28 | 84°03.20 | 65.3 | 3.7 | 297 | 0.09 | 1.2 | 0.8 |
| 009 | 03 | 113409.88 | | 9°51.35 | 84°21.17 | 17.1 | 3.3 | 165 | 0.36 | 3.3 | 3.8 |
| 010 | 03 | 171403.72 | | 9°54.43 | 84°17.71 | 17.7 | 3.2 | 164 | 0.53 | 3.9 | 5.3 |
| 011 | 03 | 093659.53 | | 9°45.53 | 84°14.58 | 11.7 | 3.0 | 158 | 0.17 | 1.2 | 3.6 |
| 012 | 03 | 112433.39 | | 9°48.54 | 84°28.54 | 11.2 | 3.3 | 292 | 0.10 | 1.3 | 3.7 |
| 013 | 04 | 004247.29 | | 9°45.99 | 84°04.24 | 15.0 | 2.7 | 159 | 0.27 | 4.7 | 4.7 |
| 014 | 04 | 005721.01 | | 9°52.49 | 84°20.98 | 12.7 | 2.4 | 123 | 0.45 | 5.5 | 8.4 |
| 015 | 04 | 024025.15 | | 9°51.35 | 84°18.84 | 15.0 | 3.0 | 121 | 0.05 | 0.3 | 0.3 |
| 016 | 04 | 034902.86 | | 9°51.35 | 84°18.84 | 15.0 | 3.2 | 169 | 0.44 | 4.0 | 2.2 |
| 017 | 04 | 075927.54 | | 9°51.35 | 84°18.84 | 15.0 | 2.7 | 150 | 0.48 | 2.9 | 1.9 |
| 018 | 05 | 192028.09 | | 9°07.37 | 84°34.41 | 41.3 | 3.6 | 252 | 0.03 | 1.2 | 0.3 |
| 019 | 05 | 233757.71 | | 10°31.89 | 84°49.61 | 30.2 | 3.9 | 250 | 0.37 | *** | *** |
| 020 | 06 | 132910.57 | | 9°41.61 | 84°12.07 | 44.5 | 3.8 | 145 | 0.36 | 2.2 | 3.7 |
| 021 | 07 | 070539.93 | | 9°17.28 | 84°25.16 | 29.2 | 3.4 | 321 | 0.29 | 7.8 | 5.4 |
| 022 | 07 | 134413.19 | | 9°56.08 | 84°27.67 | 5.9 | 1.8 | 129 | 0.18 | 1.6 | 2.2 |
| 023 | 07 | 184850.74 | | 9°53.51 | 84°01.98 | 67.4 | 3.4 | 169 | 0.29 | 3.5 | 2.1 |
| 024 | 07 | 222137.39 | | 9°51.35 | 84°18.84 | 12.2 | 2.7 | 178 | 0.38 | 2.2 | 2.2 |
| 025 | 08 | 040741.93 | | 9°58.00 | 83°49.97 | 3.5 | 3.3 | 201 | 0.17 | 4.4 | 1.6* |
| 026 | 08 | 043132.11 | | 9°57.98 | 83°49.16 | 1.5 | 2.1 | 131 | 0.17 | 2.6 | 2.5 |
| 027 | 08 | 084154.53 | | 10°00.93 | 85°39.70 | 17.2 | 3.5 | 264 | 0.16 | 2.8 | 3.2 |
| 028 | 08 | 100741.78 | | 9°57.93 | 83°49.83 | 3.1 | 3.3 | 94 | 0.27 | 3.3 | 2.7 |
| 029 | 09 | 043223.15 | | 9°53.15 | 84°16.84 | 27.7 | 4.0 | 110 | 0.25 | 1.9 | 3.8* |
| 030 | 10 | 021320.34 | | 9°58.32 | 83°49.91 | 2.4 | 2.9 | 211 | 0.21 | 0.6 | 0.4 |
| 031 | 10 | 033005.33 | | 10°35.68 | 87°43.63 | 35.0 | 4.3 | 344 | 0.25 | 14.8 | 17.5 |
| 032 | 10 | 215624.94 | | 9°53.30 | 84°14.28 | 35.6 | 3.3 | 155 | 0.45 | 3.7 | 3.6 |
| 033 | 10 | 020014.24 | | 9°54.32 | 84°18.84 | 15.0 | 3.3 | 118 | 0.50 | 2.5 | 2.4 |
| 034 | 12 | 055800.85 | | 9°49.97 | 84°17.73 | 8.1 | 2.9 | 205 | 0.14 | 1.7 | 1.7 |
| 035 | 13 | 041742.41 | | 9°56.46 | 83°47.92 | 2.8 | 3.5 | 208 | 0.38 | 2.0 | 2.1 |

E N E R O 1 9 9 1

| NO | DIA | TIEMPO | DR. | LATITUD | LONGITUD | PROF | MAG | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|-----|----------|----------|------|-----|-----|------|------|-----|
| 036 | 15 | 032732.48 | | 9°51.35 | 84°17.40 | 5.8 | 3.4 | 149 | 0.31 | 1.9 | 1.1 |
| 037 | 15 | 051817.31 | | 9°51.35 | 84°18.84 | 9.0 | 2.3 | 150 | 0.31 | 2.0 | 1.8 |
| 038 | 15 | 094325.02 | | 9°51.35 | 84°20.14 | 9.9 | 2.4 | 176 | 0.37 | 3.0 | 3.4 |
| 039 | 16 | 130838.57 | | 10°00.96 | 83°51.50 | 3.8 | 2.2 | 296 | 0.24 | 3.1 | 2.2 |
| 040 | 16 | 134645.04 | | 9°58.90 | 83°51.18 | 0.5 | 2.0 | 253 | 0.24 | 2.5 | 5.3 |
| 041 | 24 | 001935.97 | | 9°55.43 | 84°20.27 | 5.0 | 3.6 | 168 | 0.47 | 4.8 | 3.3 |
| 042 | 24 | 015639.92 | | 9°55.72 | 84°19.88 | 7.3 | 3.7 | 169 | 0.40 | 2.4 | 5.8 |
| 043 | 24 | 174454.80 | | 9°47.09 | 84°18.28 | 2.4 | 3.0 | 256 | 0.24 | 3.5 | 2.3 |
| 044 | 24 | 221030.04 | | 9°28.19 | 84°10.02 | 43.4 | 2.9 | 162 | 0.12 | 0.8 | 0.6 |
| 045 | 26 | 073824.73 | | 8°41.51 | 83°13.55 | 8.2 | 4.2 | 177 | 0.34 | 3.6 | 3.4 |
| 046 | 27 | 011751.32 | | 9°57.06 | 83°51.83 | 2.6 | 3.2 | 142 | 0.47 | *** | *** |
| 047 | 27 | 025827.02 | | 9°58.34 | 83°50.64 | 3.5 | 3.3 | 158 | 0.24 | *** | *** |
| 048 | 27 | 060918.85 | | 9°58.90 | 83°49.97 | 5.0 | 1.9 | 236 | 0.14 | *** | *** |
| 049 | 27 | 071738.21 | | 9°57.06 | 83°51.83 | 2.6 | 3.2 | 142 | 0.47 | 3.0 | 8.5 |
| 050 | 27 | 075808.83 | | 9°58.34 | 83°50.64 | 3.6 | 3.3 | 158 | 0.24 | *** | *** |
| 051 | 27 | 085808.83 | | 9°58.54 | 83°50.64 | 3.5 | 3.3 | 158 | 0.24 | *** | *** |
| 052 | 27 | 164932.21 | | 10°00.24 | 83°49.97 | 5.0 | 3.4 | 269 | 0.26 | *** | *** |
| 053 | 27 | 170921.39 | | 9°58.90 | 83°49.97 | 5.0 | 3.6 | 236 | 0.14 | *** | *** |
| 054 | 27 | 160918.85 | | 9°58.90 | 83°49.97 | 5.0 | 2.1 | 236 | 0.14 | *** | *** |
| 055 | 28 | 020951.43 | | 9°56.55 | 83°52.10 | 10.8 | 2.8 | 255 | 0.44 | 3.9 | 8.1 |
| 056 | 28 | 090738.52 | | 9°53.26 | 84°15.26 | 7.5 | 2.1 | 199 | 0.38 | *** | *** |
| 057 | 28 | 115859.93 | | 10°09.81 | 83°29.10 | 29.9 | 3.1 | 324 | 0.06 | 1.8 | 1.0 |
| 058 | 28 | 123038.92 | | 9°51.35 | 84°21.45 | 11.3 | 2.5 | 165 | 0.42 | 3.8 | 4.5 |
| 059 | 28 | 134001.32 | | 10°00.24 | 83°49.97 | 5.0 | 2.1 | 269 | 0.26 | *** | *** |
| 060 | 28 | 154822.32 | | 10°00.24 | 83°49.97 | 5.0 | 2.8 | 269 | 0.26 | *** | *** |
| 061 | 29 | 064234.33 | | 9°58.90 | 83°51.24 | 3.4 | 2.3 | 196 | 0.38 | 3.0 | 1.9 |
| 062 | 29 | 064754.19 | | 9°57.19 | 83°42.97 | 3.8 | 2.4 | 213 | 0.17 | 14.3 | 9.0 |
| 063 | 29 | 174428.64 | | 9°56.90 | 83°50.72 | 1.0 | 1.7 | 166 | 0.21 | 1.5 | 6.9 |
| 064 | 29 | 220132.25 | | 9°57.24 | 83°50.57 | 0.8 | 1.8 | 147 | 0.13 | *** | *** |
| 065 | 29 | 223549.78 | | 9°56.56 | 83°50.28 | 2.2 | 1.8 | 180 | 0.02 | *** | *** |
| 066 | 30 | 002120519 | | 9°33.43 | 83°38.99 | 15.0 | 2.9 | 279 | 0.40 | *** | *** |
| 067 | 30 | 003416842 | | 9°56.67 | 83°49.89 | 4.4 | 1.8 | 162 | 0.02 | *** | *** |
| 068 | 30 | 031916.52 | | 9°57.40 | 83°50.70 | 0.7 | 1.7 | 142 | 0.13 | 0.3 | 1.8 |
| 069 | 30 | 043627.12 | | 9°57.19 | 83°50.27 | 3.5 | 1.7 | 144 | 0.39 | 1.1 | 2.3 |
| 070 | 30 | 100240.57 | | 9°57.31 | 83°50.58 | 1.4 | 1.8 | 116 | 0.24 | 1.3 | 1.4 |
| 071 | 30 | 110814.18 | | 9°57.67 | 83°49.37 | 5.0 | 2.7 | 213 | 0.16 | *** | *** |
| 072 | 30 | 130026.28 | | 9°54.57 | 83°50.00 | 1.7 | 1.9 | 273 | 0.03 | *** | *** |
| 073 | 30 | 140750.81 | | 9°56.57 | 83°50.59 | 1.4 | 1.9 | 115 | 0.34 | 2.2 | 1.8 |
| 074 | 30 | 222808.49 | | 9°56.91 | 83°51.23 | 0.3 | 1.7 | 115 | 0.45 | 1.5 | 1.7 |
| 075 | 31 | 035409.11 | | 9°57.34 | 83°50.18 | 3.0 | 1.9 | 122 | 0.23 | 1.1 | 1.4 |

E N E R O 1 9 9 1

| NO | DIA | TIEMPO | DR. | LATITUD | LONGITUD | PROF | MAG | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|-----|---------|----------|------|-----|-----|------|------|------|
| 076 | 31 | 045830.91 | | 9°57.67 | 83°49.10 | 5.0 | 1.6 | 210 | 0.19 | 0.7 | 0.3 |
| 077 | 31 | 193357.34 | | 8°39.29 | 82°59.96 | 21.8 | 4.1 | 301 | 0.35 | 7.3 | 3.2 |
| 078 | 31 | 232847.22 | | 7°55.51 | 83°19.81 | 10.8 | 4.4 | 305 | 0.18 | 14.2 | 5.8* |
| 079 | 31 | 235203.22 | | 9°57.59 | 83°49.65 | 3.9 | 2.6 | 181 | 0.27 | 1.2 | 0.7* |

F E B R E R O 1 9 9 1.

| | | | | | | | | | | | |
|-----|----|-----------|----------|---------|----------|------|-----|-----|------|------|------|
| 001 | 01 | 074902.25 | | 9°58.90 | 83°49.97 | 5.0 | 3.0 | 231 | 0.18 | 0.1 | 6.1 |
| 002 | 01 | 143546.30 | | 9°51.98 | 84°17.04 | 8.6 | 3.0 | 186 | 0.20 | 0.9 | 1.7 |
| 003 | 01 | 210746.07 | | 9°49.82 | 84°06.74 | 6.8 | 2.3 | 259 | 0.16 | 2.2 | 0.9 |
| 004 | 02 | 074205.94 | | 9°57.15 | 85°05.14 | 30.0 | 3.5 | 329 | 0.36 | 4.9 | 2.5 |
| 005 | 02 | 075121.33 | | 9°22.84 | 84°50.24 | 35.2 | 3.0 | 303 | 0.30 | 3.3 | 1.4 |
| 006 | 02 | 094616.82 | | 9°58.90 | 83°51.31 | 14.9 | 2.3 | 196 | 0.28 | 1.3 | 0.6 |
| 007 | 02 | 214534.91 | | 9°58.90 | 83°51.18 | 15.0 | 2.1 | 126 | 0.29 | 4.1 | 4.1 |
| 008 | 02 | 223016.32 | | 9°55.86 | 84°15.76 | 4.7 | 3.4 | 134 | 0.36 | 1.4 | 1.6 |
| 009 | 03 | 020723.44 | | 9°51.34 | 84°14.21 | 20.1 | 3.3 | 255 | 0.09 | 0.9 | 1.3 |
| 010 | 03 | 040522.31 | | 9°29.94 | 84°29.73 | 30.8 | 2.7 | 303 | 0.17 | 6.2 | 9.2 |
| 011 | 03 | 041001.83 | | 9°51.38 | 84°02.92 | 18.2 | 2.9 | 198 | 0.08 | 2.6 | 2.0 |
| 012 | 03 | 083902.21 | | 9°46.28 | 84°08.65 | 13.4 | 2.5 | 204 | 0.30 | 5.6 | 8.7 |
| 013 | 03 | 103945.80 | | 9°58.90 | 83°49.97 | 5.0 | 3.2 | 236 | 0.40 | 2.4 | 1.4 |
| 014 | 03 | 152339.97 | | 9°58.90 | 83°52.09 | 3.4 | 2.6 | 196 | 0.36 | 3.1 | 3.1 |
| 015 | 03 | 155008.68 | 10°01.50 | | 83°48.17 | 4.4 | 2.9 | 282 | 0.23 | 4.6 | 1.8 |
| 016 | 03 | 172153.83 | | 9°51.35 | 84°11.96 | 17.7 | 3.1 | 151 | 0.29 | 2.0 | 3.0 |
| 017 | 04 | 014642.01 | | 9°55.77 | 83°44.42 | 5.0 | 2.9 | 262 | 0.30 | 7.0 | 3.6 |
| 018 | 04 | 073645.91 | | 9°36.97 | 84°06.21 | 17.7 | 2.7 | 121 | 0.25 | 1.3 | 2.3 |
| 019 | 04 | 161413.47 | 10°18.27 | | 85°06.81 | 30.1 | 3.4 | 285 | 0.28 | 17.1 | 3.3 |
| 020 | 04 | 182757.98 | | 9°46.54 | 85°20.92 | 32.2 | 3.1 | 215 | 0.34 | 6.9 | 2.5 |
| 021 | 04 | 200649.62 | | 9°24.41 | 84°33.95 | 39.2 | 2.6 | 222 | 0.34 | 4.3 | 1.7 |
| 022 | 05 | 021148.31 | | 9°51.95 | 84°15.23 | 1.5 | 3.0 | 171 | 0.25 | 1.6 | 1.9 |
| 023 | 05 | 042804.47 | | 9°58.90 | 83°49.97 | 7.7 | 2.5 | 280 | 0.35 | 11.5 | 6.2 |
| 024 | 05 | 142924.72 | | 9°48.71 | 84°15.43 | 3.6 | 3.4 | 141 | 0.30 | 1.6 | 1.8* |
| 025 | 06 | 075011.10 | | 9°48.79 | 84°16.13 | 3.7 | 4.1 | 148 | 0.33 | 1.8 | 1.9* |
| 026 | 06 | 110116.94 | | 9°47.93 | 84°16.29 | 6.3 | 3.0 | 109 | 0.27 | 2.0 | 2.4 |
| 027 | 06 | 205922.04 | | 9°49.04 | 84°19.34 | 7.4 | 3.5 | 272 | 0.14 | 2.3 | 1.9* |
| 028 | 06 | 210936.49 | | 9°50.27 | 84°13.24 | 25.0 | 2.8 | 246 | 0.26 | 3.5 | 2.9 |
| 029 | 06 | 211326.72 | | 9°50.48 | 84.17.55 | 8.4 | 3.8 | 194 | 0.19 | 3.1 | 2.7* |
| 030 | 06 | 211808.60 | | 9°51.35 | 84°20.15 | 15.0 | 2.6 | 316 | 0.29 | 3.6 | 2.2 |
| 031 | 07 | 015005.28 | | 9°50.03 | 84°21.00 | 14.0 | 3.4 | 317 | 0.17 | 3.2 | 2.8* |
| 032 | 07 | 030109.29 | | 9°52.08 | 84°15.72 | 6.4 | 2.8 | 176 | 0.27 | 3.3 | 3.1 |
| 033 | 07 | 165208.78 | | 9°51.35 | 84°22.50 | 6.6 | 3.7 | 328 | 0.16 | 3.4 | 0.9* |
| 034 | 07 | 165401.12 | | 9°51.35 | 84°21.45 | 7.2 | 3.3 | 327 | 0.31 | 6.1 | 1.9* |
| 035 | 07 | 184427.01 | | 9°45.47 | 84°14.63 | 3.8 | 2.7 | 158 | 0.40 | 2.3 | 3.2 |

F E B R E R O 1 9 9 1 .

| NO | DIA | TIEMPO | OR. | LATITUD | LONGITUD | PROF | MAG | GAP | RMS | ERH | ERZ |
|--------|-----|-----------|-----|----------|----------|------|-----|-----|------|------|---------|
| 036 | 07 | 201047.34 | | 9048.42 | 85002.36 | 31.8 | 3.5 | 185 | 0.37 | 5.5 | 3.6 |
| 037 | 07 | 203015.86 | | 9058.90 | 83049.97 | 10.0 | 2.4 | 280 | 0.39 | 4.6 | 3.5 |
| 038 | 08 | 025751.29 | | 9055.82 | 84017.45 | 13.3 | 2.7 | 248 | 0.42 | 3.4 | 2.8 |
| 039 | 08 | 073445.91 | | 9045.29 | 84013.55 | 2.6 | 2.6 | 150 | 0.32 | 2.0 | 4.0 |
| 040 | 08 | 102146.98 | | 9034.86 | 83058.23 | 0.9 | 2.3 | 272 | 0.22 | 3.1 | 2.7 |
| 041 | 08 | 141546.95 | | 9058.43 | 83052.05 | 2.4 | 3.1 | 181 | 0.15 | 1.1 | 1.7 |
| 042 | 08 | 185035.64 | | 9049.39 | 84010.53 | 5.7 | 2.9 | 168 | 0.29 | 1.5 | 1.1* |
| 043 | 09 | 163422.32 | | 8052.53 | 84001.13 | 86.3 | 3.3 | 298 | 0.51 | 15.8 | 5.8 |
| 044 | 10 | 042814.74 | | 9005.19 | 84054.94 | 31.6 | 3.5 | 278 | 0.27 | 4.9 | 2.9 |
| 045 | 10 | 160609.73 | | 9048.91 | 84017.49 | 19.9 | 3.2 | 98 | 0.26 | 0.9 | 1.4 |
| 046 | 11 | 173021.81 | | 9050.66 | 84013.65 | 5.5 | 2.9 | 162 | 0.27 | 1.2 | 1.5 |
| 047 | 13 | 064255.33 | | 9042.15 | 84016.82 | 6.2 | 2.8 | 219 | 0.23 | 2.8 | 2.2 |
| 048 | 13 | 073505.46 | | 9043.88 | 84016.69 | 5.8 | 2.8 | 203 | 0.26 | 2.0 | 1.6 |
| 049 | 13 | 083917.92 | | 9048.54 | 83059.81 | 13.4 | 3.4 | 102 | 0.17 | 1.4 | 2.4* |
| 050 | 13 | 093349.28 | | 9047.98 | 84015.33 | 15.7 | 2.6 | 148 | 0.15 | 3.4 | 3.4 |
| 055 | 13 | 111123.47 | | 8052.30 | 82055.28 | 24.0 | 3.3 | 333 | 0.31 | 6.6 | 2.5 m/d |
| 056 | 13 | 144806.82 | | 9047.55 | 84012.59 | 52.6 | 3.2 | 183 | 0.19 | 3.2 | 2.7 |
| 057 | 14 | 114812.35 | | 9047.90 | 84011.21 | 5.0 | 2.9 | 157 | 0.33 | 1.8 | 1.6* |
| 058 | 14 | 185332.09 | | 9045.24 | 84018.84 | 6.6 | 2.9 | 269 | 0.38 | 1.2 | 1.1* |
| 059 | 15 | 192723.67 | | 8006.47 | 82057.80 | 15.0 | 3.4 | 343 | 0.40 | 25.0 | 9.6 |
| 060 | 16 | 130915.08 | | 9055.33 | 84010.53 | 2.4 | 2.9 | 304 | 0.18 | 2.0 | 1.9 |
| 061 | 16 | 132446.22 | | 9059.11 | 84006.09 | 19.5 | 3.2 | 213 | 0.46 | 4.2 | 2.8 |
| 062 | 16 | 132755.61 | | 9059.77 | 84010.92 | 10.4 | 3.8 | 230 | 0.28 | 2.5 | 4.0* |
| 063 | 16 | 142027.15 | | 10000.22 | 84010.38 | 12.4 | 4.6 | 231 | 0.28 | 1.9 | 2.8* |
| 064 | 16 | 144603.08 | | 9058.12 | 84008.17 | 13.6 | 2.7 | 180 | 0.18 | 3.8 | 3.7 |
| 065 | 16 | 145018.42 | | 10000.39 | 84008.67 | 14.9 | 2.9 | 171 | 0.22 | 3.9 | 2.9 |
| 066 | 16 | 163146.86 | | 9053.44 | 84008.35 | 15.7 | 3.1 | 165 | 0.05 | 0.6 | 0.7 |
| 067 | 16 | 190619.53 | | 9058.81 | 84009.78 | 11.9 | 3.4 | 241 | 0.13 | 1.2 | 1.4* |
| 068 | 16 | 201551.65 | | 10001.30 | 84010.44 | 13.3 | 3.5 | 238 | 0.21 | 1.6 | 1.6* |
| 069 | 17 | 000909.98 | | 10001.21 | 84010.47 | 13.8 | 3.0 | 256 | 0.07 | 1.0 | 0.7 |
| 070 | 17 | 043041.02 | | 9058.89 | 84009.67 | 11.2 | 4.4 | 221 | 0.30 | 2.0 | 2.9* |
| *071 | 17 | 054609.01 | | 9059.72 | 84010.21 | 13.9 | 2.7 | 251 | 0.01 | 0.0 | 0.0 |
| 072 | 17 | 112400.80 | | 9049.92 | 84000.76 | 12.2 | 2.2 | 100 | 0.26 | 1.1 | 2.0 |
| 073 | 17 | 125530.71 | | 9056.72 | 84009.62 | 11.6 | 2.8 | 215 | 0.21 | 2.0 | 2.8* |
| 074 | 17 | 183517.09 | | 9006.23 | 84016.13 | 35.0 | 3.1 | 326 | 0.15 | 3.7 | 2.1 |
| 075 | 17 | 191041.43 | | 9052.18 | 84030.08 | 6.4 | 3.1 | 231 | 0.24 | 2.2 | 3.2 |
| 076 | 17 | 202329.13 | | 9049.00 | 84032.78 | 14.0 | 2.7 | 327 | 0.19 | 3.5 | 1.8 |
| 10-077 | 17 | 214114.87 | | 10003.76 | 84021.44 | 85.2 | 2.3 | 304 | 0.26 | 4.9 | 2.6 |
| 078 | 17 | 222614.71 | | 9058.55 | 84003.35 | 20.7 | 2.5 | 328 | 0.24 | 0.0 | 0.0 |
| 079 | 19 | 023026.05 | | 9053.67 | 84011.99 | 13.9 | 2.8 | 183 | 0.01 | 0.0 | 0.0 |

F E B R E R O 1 9 9 1.

| NO | DIA | TIEMPO | OR. | LATITUD | LONGITUD | PROF | MAG | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|-----|----------|----------|------|-----|-----|------|------|------|
| 080 | 19 | 225734.03 | | 9259.36 | 84209.49 | 16.7 | 3.6 | 223 | 0.14 | 2.3 | 1.2* |
| 081 | 20 | 041310.70 | | 9237.92 | 83243.24 | 1.0 | 3.1 | 224 | 0.37 | 2.0 | 1.8 |
| 082 | 20 | 082529.00 | | 9249.60 | 84219.89 | 6.5 | 2.8 | 279 | 0.15 | 2.7 | 1.1 |
| 083 | 20 | 115116.49 | | 9258.48 | 84209.63 | 12.4 | 3.5 | 218 | 0.14 | 1.7 | 1.5* |
| 084 | 22 | 022727.23 | | 9243.25 | 84218.84 | 30.0 | 2.5 | 275 | 0.03 | 1.1 | 1.2 |
| 085 | 22 | 092300.11 | | 9257.98 | 85231.54 | 32.5 | 3.3 | 221 | 0.35 | 21.1 | 2.1 |
| 086 | 22 | 112246.79 | | 9259.43 | 84208.18 | 13.3 | 2.6 | 250 | 0.01 | 0.0 | 0.0 |
| 087 | 22 | 144546.14 | | 9250.19 | 84201.61 | 10.8 | 2.4 | 108 | 0.17 | 1.4 | 2.5 |
| 088 | 23 | 130427.25 | | 9259.00 | 84209.78 | 15.5 | 2.6 | 243 | 0.07 | 1.3 | 1.6 |
| 089 | 23 | 184439.82 | | 9255.44 | 84203.69 | 3.9 | 3.0 | 223 | 0.01 | 0.0 | 0.0 |
| 090 | 24 | 055828.52 | | 10230.11 | 85216.87 | 28.9 | 3.8 | 304 | 0.28 | 6.5 | 5.2 |
| 091 | 24 | 164915.04 | | 10201.03 | 83254.52 | 3.8 | 2.7 | 263 | 0.20 | 1.7 | 1.1 |
| 092 | 24 | 223332.90 | | 9246.35 | 84215.30 | 26.3 | 3.2 | 163 | 0.27 | 1.7 | 3.3 |
| 093 | 24 | 223945.87 | | 9244.63 | 81220.46 | 5.0 | 3.6 | 349 | 0.20 | 0.0 | 0.0 |
| 094 | 24 | 232932.88 | | 9246.37 | 84213.04 | 30.0 | 2.7 | 233 | 0.26 | 8.3 | 10.5 |
| 095 | 25 | 034747.74 | | 9230.65 | 85241.61 | 17.8 | 3.5 | 342 | 0.23 | 8.6 | 2.2 |
| 096 | 25 | 050029.89 | | 9250.84 | 84219.76 | 6.4 | 3.6 | 320 | 0.06 | 0.9 | 0.2* |
| 097 | 25 | 050502.80 | | 9218.54 | 84211.61 | 25.9 | 3.1 | 334 | 0.13 | 7.1 | 1.8 |
| 098 | 25 | 074240.91 | | 9237.37 | 83242.83 | 3.3 | 3.3 | 230 | 0.33 | 10.3 | 4.7 |
| 099 | 25 | 092806.71 | | 8223.90 | 83203.01 | 65.7 | 3.7 | 346 | 0.37 | 2.3 | 2.1 |
| 100 | 25 | 094433.83 | | 8259.03 | 84204.68 | 12.4 | 4.2 | 297 | 0.30 | 3.5 | 3.3 |
| 101 | 25 | 110928.92 | | 8254.26 | 83258.96 | 6.4 | 4.2 | 322 | 0.21 | 7.3 | 10.7 |
| 102 | 26 | 082630.84 | | 9216.43 | 83247.33 | 53.8 | 3.1 | 286 | 0.18 | 2.1 | 1.6 |
| 103 | 27 | 031051.66 | | 9254.37 | 83258.75 | 5.3 | 2.6 | 98 | 0.34 | 2.1 | 3.2 |
| 104 | 27 | 084842.68 | | 9232.44 | 84206.28 | 24.3 | 3.8 | 119 | 0.40 | 2.4 | 3.3 |
| 105 | 27 | 085621.09 | | 9231.32 | 84206.66 | 30.3 | 2.9 | 125 | 0.20 | 1.4 | 2.9 |
| 106 | 27 | 091617.61 | | 9234.48 | 84207.64 | 15.5 | 3.3 | 132 | 0.32 | 1.6 | 2.0 |
| 107 | 27 | 162036.74 | | 9228.11 | 84203.13 | 49.2 | 2.8 | 253 | 0.18 | 3.2 | 4.6 |
| 108 | 27 | 210130.72 | | 8241.68 | 83256.92 | 30.2 | 3.4 | 343 | 0.17 | 7.5 | 3.0 |

M A R Z O 1 9 9 1

| NO | DIA | TIEMPO | OR. | LATITUD | LONGITUD | PROF | MAG | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|-----|----------|----------|-------|-----|-----|------|-----|-------|
| 001 | 01 | 130901.09 | | 9221.23 | 84213.57 | 22.4 | 3.9 | 126 | 0.36 | 5.2 | 2.3* |
| 002 | 01 | 173125.37 | | 10249.16 | 84249.99 | 197.2 | 5.5 | 247 | 0.25 | 9.4 | 11.8* |
| 003 | 01 | 213527.98 | | 9252.26 | 84220.90 | 14.3 | 3.1 | 111 | 0.46 | 2.5 | 2.4 |
| 004 | 02 | 004616.56 | | 9254.11 | 84219.65 | 5.9 | 3.0 | 164 | 0.24 | 1.5 | 1.1 |
| 005 | 02 | 072227.07 | | 9255.30 | 84219.36 | 17.3 | 3.1 | 121 | 0.21 | 1.3 | 1.3 |
| 006 | 02 | 083134.10 | | 9252.10 | 84218.77 | 15.8 | 2.7 | 260 | 0.30 | 6.7 | 2.9 |
| 007 | 02 | 130319.65 | | 9252.80 | 84216.47 | 15.6 | 2.8 | 204 | 0.19 | 4.7 | 2.6 |
| 008 | 03 | 103359.27 | | 9255.80 | 84209.63 | 5.0 | 2.8 | 203 | 0.01 | 0.0 | 0.0 |
| 009 | 03 | 213704.13 | | 9239.01 | 83236.64 | 11.2 | 3.6 | 191 | 0.04 | 0.5 | 0.6 m |
| 010 | 04 | 101600.00 | | 9250.30 | 84200.11 | 10.0 | 2.0 | 180 | 0.15 | 0.8 | 1.0* |

MARZO 1991

| NO | DIA | TIEMPO | OR. | LATITUD | LONGITUD | PROF | MAG | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|-----|----------|----------|------|-----|-----|------|------|-------|
| 011 | 04 | 152943.93 | | 9229.67 | 83253.75 | 14.1 | 3.9 | 117 | 0.48 | 2.7 | 3.2* |
| 012 | 04 | 155058.32 | | 8223.94 | 83202.62 | 15.0 | 4.1 | 339 | 0.11 | 6.2 | 3.5 |
| 013 | 05 | 025439.24 | | 10203.32 | 84210.12 | 6.4 | 3.6 | 247 | 0.27 | 2.1 | 2.6* |
| 014 | 05 | 110630.81 | | 10200.36 | 84210.73 | 14.8 | 3.7 | 233 | 0.30 | 2.3 | 1.5* |
| 015 | 06 | 052006.58 | | 9249.76 | 84218.75 | 15.3 | 2.8 | 321 | 0.15 | 5.7 | 2.5 |
| 016 | 07 | 103033.18 | | 9252.09 | 84218.27 | 6.7 | 3.1 | 126 | 0.33 | 2.6 | 1.1 |
| 017 | 08 | 063857.16 | | 9249.29 | 84200.74 | 8.8 | 3.4 | 167 | 0.24 | 0.8 | 2.0* |
| 018 | 10 | 005858.34 | | 9254.36 | 83254.86 | 7.1 | 3.1 | 125 | 0.26 | 5.5 | 5.9 |
| 019 | 10 | 075954.22 | | 10230.50 | 83205.09 | 33.6 | 3.5 | 301 | 0.40 | 6.3 | 3.5 |
| 020 | 10 | 143830.78 | | 10224.91 | 85217.86 | 45.9 | 3.7 | 242 | 0.20 | 9.4 | 11.8 |
| 021 | 10 | 192555.94 | | 9253.53 | 84216.83 | 20.0 | 2.9 | 320 | 0.04 | 0.0 | 0.0 |
| 022 | 11 | 004220.33 | | 10208.22 | 84203.79 | 27.4 | 2.8 | 307 | 0.22 | 6.9 | 10.3 |
| 022 | 11 | 011032.76 | | 9254.81 | 84218.40 | 19.4 | 2.9 | 201 | 0.38 | 0.6 | 0.6 |
| 023 | 11 | 123025.23 | | 9227.08 | 84211.23 | 41.3 | 3.1 | 238 | 0.12 | 2.1 | 1.1* |
| 024 | 12 | 031830.82 | | 8251.12 | 82255.00 | 25.0 | 4.4 | 334 | 0.13 | 2.8 | 1.4* |
| 025 | 12 | 072610.02 | | 9252.16 | 83256.03 | 7.5 | 2.7 | 211 | 0.04 | 0.0 | 0.0 |
| 026 | 12 | 233143.54 | | 9242.61 | 83239.87 | 14.7 | 2.7 | 242 | 0.22 | 2.2 | 3.7 |
| 027 | 13 | 002207.00 | | 9242.13 | 83242.12 | 13.7 | 3.3 | 264 | 0.24 | 3.1 | 3.6 |
| 028 | 13 | 014421.04 | | 8254.82 | 84207.40 | 8.6 | 3.9 | 315 | 0.34 | 3.2 | 3.2 |
| 029 | 13 | 052828.61 | | 9203.37 | 84220.90 | 37.4 | 3.7 | 329 | 0.02 | 0.9 | 0.3 |
| 030 | 13 | 115528.86 | | 9259.02 | 84219.72 | 15.6 | 3.5 | 149 | 0.30 | 3.2 | 2.4* |
| 031 | 13 | 210434.10 | | 9255.15 | 84218.18 | 29.3 | 2.9 | 154 | 0.30 | 2.8 | 5.3 |
| 032 | 14 | 050428.97 | | 9229.80 | 84235.71 | 34.6 | 3.3 | 325 | 0.15 | 4.5 | 7.6 |
| 033 | 14 | 082344.48 | | 9243.01 | 84205.99 | 15.8 | 3.8 | 296 | 0.09 | 1.4 | 1.1* |
| 034 | 15 | 070208.24 | | 9217.22 | 83240.35 | 13.6 | 3.4 | 297 | 0.34 | 4.6 | 2.8 |
| 035 | 15 | 144118.00 | | 9250.31 | 84215.83 | 20.3 | 4.0 | 161 | 0.39 | 2.8 | 4.4* |
| 036 | 16 | 060207.64 | | 9243.22 | 85239.93 | 30.0 | 5.8 | 264 | 0.24 | 17.6 | 16.4* |
| 037 | 16 | 063215.44 | | 9251.90 | 85234.01 | 35.0 | 4.8 | 276 | 0.26 | *** | **** |
| 038 | 16 | 082249.87 | | 9242.13 | 85237.97 | 24.4 | 3.7 | 272 | 0.16 | 0.0 | 0.0 |
| 039 | 16 | 115116.36 | | 9243.16 | 83247.16 | 30.5 | 4.5 | 286 | 0.06 | *** | *** |
| 040 | 16 | 195258.38 | | 9205.60 | 83251.32 | 15.0 | 3.3 | 306 | 0.37 | 6.6 | 5.8 |
| 041 | 18 | 010152.60 | | 10200.41 | 84210.10 | 68.0 | 3.2 | 169 | 0.41 | 5.8 | 5.1 |
| 042 | 18 | 013934.79 | | 10203.12 | 84206.54 | 26.8 | 3.1 | 208 | 0.23 | 3.8 | 4.3 |
| 043 | 18 | 041758.16 | | 9253.41 | 85227.78 | 5.0 | 3.7 | 224 | 0.20 | 1.7 | 1.3 |
| 044 | 18 | 062126.98 | | 9225.77 | 84207.26 | 48.9 | 3.0 | 197 | 0.28 | 3.2 | 3.0 |
| 045 | 19 | 132325.82 | | 9240.80 | 85235.93 | 21.0 | 4.1 | 262 | 0.22 | 2.8 | 2.0 |
| 046 | 19 | 140321.96 | | 9254.97 | 85249.18 | 13.0 | 3.9 | 303 | 0.06 | 0.0 | 0.0 |
| 047 | 20 | 064632.73 | | 9251.14 | 84221.69 | 14.5 | 3.2 | 223 | 0.37 | 3.5 | 3.2 |
| 048 | 21 | 021853.88 | | 9244.27 | 85235.40 | 24.2 | 4.1 | 264 | 0.14 | 2.6 | 3.1 |
| 049 | 21 | 071745.61 | | 9252.62 | 84220.80 | 15.6 | 3.2 | 215 | 0.34 | 3.3 | 2.5 |
| 050 | 21 | 073401.02 | | 9220.89 | 83235.75 | 26.0 | 3.0 | 335 | 0.01 | 0.2 | 0.3 |

MARZO 1991

| Nº | DIA | TIEMPO | OR. | LATITUD | LONGITUD | PROF | MAG | GAP | RMS | ERH | ERZ |
|-----|-----|-----------|----------|----------|----------|------|-----|-----|------|-----|------|
| 051 | 22 | 045800.00 | | 9035.59 | 84041.42 | 10.0 | 4.7 | 192 | 0.24 | 2.4 | 2.5* |
| 052 | 22 | 050612.96 | | 9032.42 | 84040.04 | 39.6 | 3.6 | 314 | 0.30 | 4.7 | 1.6 |
| 053 | 22 | 081454.17 | | 9021.45 | 84034.85 | 9.6 | 3.9 | 326 | 0.16 | 3.2 | 2.2 |
| 054 | 23 | 110209.09 | | 8031.65 | 83039.55 | 14.9 | 3.9 | 310 | 0.32 | *** | *** |
| 055 | 24 | 203735.05 | | 9052.04 | 84013.95 | 13.5 | 3.5 | 309 | 0.22 | 5.1 | 5.2* |
| 056 | 24 | 223439.94 | | 9050.47 | 84013.86 | 14.7 | 3.3 | 307 | 0.12 | 2.5 | 2.6* |
| 057 | 25 | 200955.66 | | 8020.78 | 82052.08 | 17.7 | 3.9 | 310 | 0.55 | 8.2 | 4.2 |
| 058 | 28 | 145130.15 | 10001.21 | 83055.79 | | 9.2 | 3.9 | 179 | 0.42 | 2.9 | 3.5* |
| 059 | 29 | 052435.27 | | 9052.53 | 85035.08 | 14.9 | 3.7 | 256 | 0.13 | 0.3 | 0.3 |
| 060 | 29 | 155252.09 | | 9049.19 | 84009.31 | 16.7 | 2.8 | 276 | 0.10 | 1.1 | 1.0 |
| 061 | 30 | 112717.40 | | 9013.00 | 84001.38 | 13.7 | 3.2 | 307 | 0.26 | 4.6 | 3.2 |

PARTE B

LECTURAS DE LOS TIEMPOS DE ARRIBO DE LOS SISMOS
REGIONALES, TELESISMOS Y EVENTOS LOCALES CON M \geq 4.0

ENERO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|-----------|-----|-----------|------|------|-----|
| QCR | 01 | 001138.50 | iP | Z | D |
| AR6 | 01 | 001128.80 | iP | Z | D |
| BUS | 01 | 001144.90 | iP | Z | C |
| VCR | 01 | 001117.90 | iP | Z | D |
| Regional. | | | | | |
| QCR | 01 | 091041.00 | iP | Z | D |
| BUS | 01 | 091039.90 | iP | Z | D |
| Regional | | | | | |
| VCR | 01 | 162713.50 | iP | Z | D |
| BUS | 01 | 162739.90 | iP | Z | - |
| AR6 | 01 | 162750.50 | iP | Z | D |
| QCR | 01 | 162739.50 | iP | Z | D |
| Regional. | | | | | |
| BUS | 01 | 184353.50 | iP | Z | D |
| VCR | 01 | 184412.90 | iP | Z | D |
| QCR | 01 | 184352.60 | iP | Z | C |
| Regional. | | | | | |
| QCR | 02 | 075602.90 | iP | Z | D |
| BUS | 02 | 075607.50 | iP | Z | C |
| AR6 | 02 | 075550.50 | iP | Z | D |
| ACR | 02 | 075621.20 | iP | Z | D |
| VCR | 02 | 075544.90 | iP | Z | D |
| LCR2 | 02 | 075603.90 | iP | Z | - |
| SJS | 02 | 075602.50 | eP | Z | D |
| SRA | 02 | 075657.90 | iP | Z | D |
| PRS | 02 | 075607.20 | eP | | |
| Regional. | | | | | |

ENERO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| VCR | 03 | 162907.50 | eP | Z | |
| BUS | 03 | 162852.50 | iP | Z | C |
| QCR | 03 | 162928.50 | iP | Z | D |
| PRS | 03 | 162940.00 | iP | Z | D |
| SJS | 03 | 162911.40 | iP | Z | D |
| LCR2 | 03 | 162924.80 | eP | Z | |

Dorsal Medio Atlántico Ms= 4.8

| | | | | | |
|-----|----|-----------|----|---|---|
| QCR | 04 | 041546.10 | iP | Z | D |
| ACR | 04 | 041604.10 | iP | Z | D |
| PRS | 04 | 041546.50 | eP | Z | |

Regional.

| | | | | | |
|------|----|-----------|----|---|---|
| BUS | 04 | 120142.80 | iP | Z | D |
| QCR | 04 | 120151.10 | iP | Z | D |
| SRA | 04 | 120158.20 | iP | Z | C |
| LCR2 | 04 | 120101.00 | iP | Z | - |
| ICR | 04 | 120157.10 | iP | Z | - |
| SJS | 04 | 120158.10 | iP | Z | D |

Regional.

| | | | | | |
|------|----|-----------|----|---|---|
| ACR | 05 | 151617.80 | iP | Z | D |
| BUS | 05 | 151654.90 | iP | Z | C |
| VCR | 05 | 151651.60 | iP | Z | D |
| QCR | 05 | 151655.80 | iP | Z | D |
| SRA | 05 | 151658.40 | eP | Z | |
| PRS | 05 | 151608.30 | eP | Z | |
| SJS | 05 | 151657.10 | iP | Z | C |
| LCR2 | 05 | 151656.00 | eP | Z | |

Regional.

| | | | | | |
|------|----|-----------|----|---|---|
| BUS | 08 | 084230.40 | iP | Z | C |
| AR6 | 08 | 084209.10 | iP | Z | C |
| VCR | 08 | 084158.20 | iP | Z | D |
| SRA | 08 | 084216.40 | iP | Z | D |
| SJS | 08 | 084222.10 | iP | Z | D |
| LCR2 | 08 | 084226.00 | iP | Z | + |

Regional.

ENERO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|-----|-----|-----------|------|------|-----|
| VCR | 10 | 033039.50 | iP | Z | C |
| | | 3059.50 | S | Z | |
| BUS | 10 | 033106.90 | iP | Z | D |
| | | 3150.00 | S | Z | |
| FDR | 10 | 033049.60 | iP | Z | D |
| QCR | 10 | 033105.80 | iP | Z | D |
| | | 3147.90 | S | Z | |
| SJS | 10 | 033101.00 | eP | Z | |
| | | 3142.30 | S | Z | |
| ICR | 10 | 033104.70 | eP | Z | D |
| | | 3149.00 | S | Z | |
| LCR | 10 | 033102.20 | iP | Z | + |
| | | 3140.00 | S | Z | |

15 Km al Oeste de Playas del Coco M = 4.3

| | | | | | |
|------|----|-----------|----|---|---|
| VCR | 11 | 194707.50 | iP | Z | C |
| QCR | 11 | 194736.00 | iP | Z | C |
| BUS | 11 | 194736.20 | iP | Z | D |
| LCR2 | 11 | 194732.50 | iP | Z | D |
| ICR | 11 | 194737.90 | iP | Z | C |
| SJS | 11 | 194733.50 | iP | Z | C |

Regional.

| | | | | | |
|------|----|-----------|----|---|---|
| BUS | 11 | 202913.00 | iP | Z | D |
| QCR | 11 | 202909.00 | iP | Z | D |
| VCR | 11 | 202845.90 | iP | Z | D |
| ICR | 11 | 202908.30 | eP | Z | |
| LCR2 | 11 | 202910.10 | iP | Z | D |
| SRA | 11 | 202904.30 | eP | Z | |

Fuera de la Costa de América Central San Salvador Mb= 3.9

| | | | | | |
|------|----|-----------|----|---|---|
| BUS | 12 | 071404.30 | iP | Z | C |
| QCR | 12 | 071357.80 | iP | Z | D |
| ACR | 12 | 071448.50 | eP | Z | |
| SJS | 12 | 071452.10 | iP | Z | + |
| LCR2 | 12 | 071400.80 | iP | Z | - |
| ICR | 12 | 071403.10 | iP | Z | D |
| SRA | 12 | 071353.10 | iP | Z | C |

Telesismo.

ENERO 1991

| EST | DIA | TIEMPO | FASE | COMP | FOL |
|-----|-----|-----------|------|------|-----|
| ACR | 13 | 034031.30 | iP | Z | D |
| BUS | 13 | 034018.40 | iP | Z | D |
| QCR | 13 | 034012.80 | iP | Z | D |
| VCR | 13 | 033949.50 | iP | Z | D |
| ICR | 13 | 034013.80 | iP | Z | C |
| SRA | 13 | 034012.30 | iP | Z | D |

Regional.

| | | | | | |
|------|----|-----------|----|---|---|
| ACR | 13 | 203625.80 | iP | Z | D |
| BUS | 13 | 203604.80 | iP | S | D |
| VCR | 13 | 203536.10 | iP | Z | D |
| | | 3672.30 | S | Z | |
| QCR | 13 | 203607.00 | iP | Z | D |
| SRA | 13 | 203557.00 | iP | Z | D |
| LDR2 | 13 | 203603.50 | iP | Z | D |
| SJS | 13 | 203602.30 | iP | Z | D |
| ICR | 13 | 203604.00 | iP | Z | D |

Regional.

| | | | | | |
|-----|----|-----------|----|---|---|
| ACR | 14 | 003617.80 | iP | Z | D |
| BUS | 14 | 003626.20 | iP | Z | D |
| VCR | 14 | 003557.10 | iP | Z | C |
| QCR | 14 | 003626.80 | iP | Z | C |

Regional.

| | | | | | |
|-----|----|-----------|----|---|---|
| BUS | 14 | 015732.80 | iP | Z | C |
| VCR | 14 | 015715.70 | iP | Z | C |
| QCR | 14 | 015750.20 | iP | Z | C |

Regional.

| | | | | | |
|-----|----|-----------|----|---|---|
| QCR | 14 | 220744.30 | iP | Z | C |
| VCR | 14 | 220720.50 | iP | Z | C |
| BUS | 14 | 220748.80 | iP | Z | C |
| ACR | 14 | 220702.30 | iP | Z | D |

Regional.

| | | | | | |
|-----|----|-----------|----|---|---|
| VCR | 16 | 040562.00 | iP | Z | D |
|-----|----|-----------|----|---|---|

Regional.

ENERO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|-----|-----|-----------|------|------|-----|
| QCR | 16 | 060647.80 | iP | Z | C |
| VCR | 16 | 060625.80 | iP | Z | D |
| ACR | 16 | 060704.80 | iP | Z | D |
| BUS | 16 | 060652.00 | iP | Z | D |

Cerca de la Costa de Guatemala, Mb= 4.8

| | | | | | |
|-----|----|-----------|----|---|---|
| VCR | 18 | 034332.40 | iP | Z | C |
| BUS | 18 | 034350.80 | iP | Z | D |

Regional.

| | | | | | |
|-----|----|-----------|----|---|---|
| VCR | 18 | 212308.90 | iP | Z | D |
| BUS | 18 | 212338.80 | iP | Z | D |
| ICR | 18 | 212334.50 | iP | Z | C |

Regional.

| | | | | | |
|-----|----|-----------|----|---|---|
| ICR | 18 | 212747.50 | iP | Z | D |
| BUS | 18 | 212750.40 | iP | Z | D |
| VCR | 18 | 212721.20 | iP | Z | D |

Regional.

| | | | | | |
|-----|----|-----------|----|---|---|
| ICR | 18 | 224541.50 | iP | Z | D |
| BUS | 18 | 224550.80 | iP | Z | D |
| VCR | 18 | 224525.20 | iP | Z | C |

Regional.

| | | | | | |
|-----|----|-----------|----|---|---|
| BUS | 23 | 010718.90 | iP | Z | C |
| ACR | 23 | 010700.90 | iP | Z | D |
| ICR | 23 | 010719.00 | iP | Z | D |
| QCR | 23 | 010720.80 | iP | Z | D |

Colombia, Mb= 5.0

| | | | | | |
|-----|----|-----------|----|---|---|
| BUS | 23 | 012505.80 | iP | Z | D |
| ACR | 23 | 012511.90 | iP | Z | D |
| ICR | 23 | 012505.90 | iP | Z | D |
| QCR | 23 | 012505.10 | iP | Z | C |
| VCR | 23 | 012458.10 | iP | Z | C |

Regional.

ENERO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|-----|-----|-----------|------|------|-----|
| VCR | 23 | 151714.10 | iP | Z | D |
| | | 1750.40 | S | Z | |
| FDR | 23 | 151732.20 | iP | Z | C |
| QCR | 23 | 151738.40 | iP | Z | C |
| ICR | 23 | 151739.90 | iP | Z | C |
| BUS | 23 | 151740.00 | iP | Z | D |
| | | 1993.80 | S | Z | |

Nicaragua Mb= 5.0

| | | | | | |
|-----|----|-----------|----|---|---|
| ACR | 25 | 050655.50 | iP | Z | D |
| BUS | 25 | 050611.90 | iP | Z | C |
| QCR | 25 | 050612.30 | iP | Z | C |

Regional.

| | | | | | |
|-----|----|-----------|----|---|---|
| QCR | 25 | 084058.60 | iP | Z | D |
| BUS | 25 | 084058.20 | iP | Z | C |
| ACR | 25 | 084042.20 | iP | Z | D |

Regional.

| | | | | | |
|-----|----|-----------|----|---|---|
| ACR | 25 | 084353.20 | iP | Z | D |
| BUS | 25 | 084309.70 | iP | Z | C |
| QCR | 25 | 084310.00 | iP | Z | D |

Regional.

| | | | | | |
|-----|----|-----------|----|---|---|
| ACR | 27 | 233248.90 | iP | Z | D |
| QCR | 27 | 233204.40 | iP | Z | C |
| JCR | 27 | 233230.20 | iP | Z | D |
| VCR | 27 | 233223.40 | iP | Z | C |

Cerca de la Costa de Oaxaca, México Mb= 4.1

| | | | | | |
|-----|----|-----------|----|---|---|
| QCR | 29 | 053050.80 | iP | Z | D |
| VCR | 29 | 053044.30 | iP | Z | D |
| ICR | 29 | 053059.90 | iP | Z | - |
| BUS | 29 | 053055.80 | iP | Z | D |
| JCR | 29 | 053047.40 | iP | Z | C |

Mar Caribe, Mb= 4.9

| | | | | | |
|-----|----|-----------|----|---|---|
| BUS | 29 | 224832.90 | iP | Z | D |
| VCR | 29 | 224805.00 | iP | Z | C |
| QCR | 29 | 224828.30 | iP | Z | D |

Fuera de la Costa de América Central, Mb= 5.1

ENERO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|-----|-----|-----------|------|------|-----|
| VCR | 31 | 232937.80 | iP | Z | D |
| JCR | 31 | 232929.90 | iP | Z | C |
| QCR | 31 | 232917.80 | iP | Z | C |
| ACR | 31 | 232901.80 | iP | Z | D |

50 Km al Oeste de Punta Burica Md= 4.4, Intensidad II San José.

FEBRERO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|-----|-----|-----------|------|------|-----|
| SJS | 01 | 193224.00 | eF | Z | |
| BUS | 01 | 193231.00 | eF | Z | |

Regional.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 03 | 041236.00 | eF | Z | |
| QCR | 03 | 041231.90 | eF | Z | |
| LCR2 | 03 | 041234.90 | eF | Z | |
| BUS | 03 | 041241.20 | eF | Z | |
| VCR | 03 | 041212.60 | iP | Z | C |

Regional.

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 04 | 161434.30 | iP | Z | - |
| ICR | 04 | 161438.00 | eF | Z | |
| BUS | 04 | 161440.90 | iP | Z | D |
| QCR | 04 | 161437.00 | iP | Z | D |
| | | 1440.50 | S | Z | |
| JCR | 04 | 161423.10 | iP | Z | C |
| URS | 04 | 161438.10 | iP | Z | D |

Regional.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 06 | 075017.10 | iP | Z | D |
| | | 5020.90 | S | Z | |
| ICR | 06 | 075021.70 | iP | Z | C |
| LCR2 | 06 | 075017.30 | eF | Z | |
| VCR | 06 | 075021.10 | iP | Z | C |
| PRS | 06 | 075012.80 | iP | Z | D |
| QCR | 06 | 075019.50 | iP | Z | D |
| | | 5026.00 | S | Z | |
| JCR | 06 | 075026.60 | iP | Z | C |
| VCR | 06 | 075035.60 | iP | Z | D |
| | | 5050.00 | S | Z | |
| BUS | 06 | 075022.40 | iP | Z | C |
| | | 5031.00 | S | Z | |
| FOR | 06 | 075028.70 | iP | Z | |
| | | 5027.80 | S | Z | |

9 Km, al sureste de Puriscal, Costa Rica, MD= 4.1
Intensidades, IV y V Puriscal, III San José.

FEBRERO 1991

| EST | DIA | TIEMPO | FASE | COMP | FOL |
|------|-----|-----------|------|------|-----|
| SJS | 07 | 055130.50 | eF | Z | |
| LCR2 | 07 | 055131.30 | eF | Z | |
| BUS | 07 | 055133.60 | eF | Z | |
| FRS | 07 | 055127.00 | eF | Z | |

Telesismo.

| | | | | | |
|-----|----|-----------|----|---|--|
| SJS | 07 | 061827.80 | eF | Z | |
| ICR | 07 | 061834.00 | eF | Z | |

Telesismo.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 07 | 113340.00 | eF | Z | - |
| URS | 07 | 113344.20 | eF | Z | |
| ICR | 07 | 113344.00 | iF | Z | D |
| LCR2 | 07 | 113341.00 | eF | Z | |
| QCR | 07 | 113340.50 | eF | Z | + |
| BUS | 07 | 113345.00 | eF | Z | |

Regional.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 08 | 091153.80 | iF | Z | C |
| ICR | 08 | 091158.90 | iF | Z | C |
| LCR2 | 08 | 091155.50 | iF | Z | C |
| QCR | 08 | 091155.00 | eF | Z | |
| BUS | 08 | 091159.90 | eF | Z | |
| URS | 08 | 091158.30 | eF | Z | D |

Regional.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 08 | 091554.00 | eF | Z | D |
| LCR2 | 08 | 091554.20 | eF | Z | |
| ICR | 08 | 091558.70 | eF | Z | |
| URS | 08 | 091558.00 | eF | Z | |
| VCR | 08 | 091528.40 | iF | Z | C |

Regional.

| | | | | | |
|------|----|-----------|----|---|--|
| SJS | 08 | 111405.00 | eF | Z | |
| LCR2 | 08 | 111404.90 | eF | Z | |
| ICR | 08 | 111408.30 | eF | Z | |
| URS | 08 | 111409.50 | eF | Z | |
| VCR | 08 | 111347.00 | iF | Z | |

Regional.

FEBRERO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| SJS | 08 | 113220.00 | iP | Z | |
| LCR2 | 08 | 113220.30 | eP | Z | |
| ICR | 08 | 113223.90 | eP | Z | |
| URS | 08 | 113224.00 | eP | Z | |
| VCR | 08 | 113155.50 | iP | Z | |

Regional.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 09 | 092401.00 | iP | Z | C |
| ICR | 09 | 092358.70 | eP | Z | |
| LCR2 | 09 | 092357.60 | iP | Z | D |
| URS | 09 | 092357.00 | iP | Z | D |
| QCR | 09 | 092354.50 | iP | Z | D |
| BUS | 09 | 092352.10 | iP | Z | D |
| | | 2413.50 | S | Z | |

Regional.

| | | | | | |
|------|----|-----------|----|---|--|
| SJS | 09 | 211011.50 | iP | Z | |
| ICR | 09 | 211015.20 | eP | Z | |
| LCR2 | 09 | 211011.80 | eP | Z | |

Regional.

| | | | | | |
|------|----|-----------|----|---|--|
| SJS | 10 | 125056.00 | eP | Z | |
| ICR | 10 | 125044.20 | eP | Z | |
| VPS2 | 10 | 125056.75 | eP | Z | |
| BUS | 10 | 125043.00 | eP | Z | |

Dorsal Medio Atlántico, MB= 5.9.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 11 | 103222.60 | iP | Z | - |
| | | 3314.30 | S | Z | |
| ICR | 11 | 103222.80 | iP | Z | C |
| LCR2 | 11 | 103219.50 | iP | Z | + |
| BUS | 11 | 103215.60 | iP | Z | C |
| QCR | 11 | 103214.50 | eP | Z | C |
| ACR | 11 | 103201.00 | iP | Z | |
| JCR | 11 | 103225.30 | iP | Z | C |
| URS | 11 | 103220.40 | iP | Z | C |

Sur de Panamá, MB= 5.1.

FEBRERO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL | * |
|------|-----|-----------|------|------|-----|---|
| SJS | 16 | 142031.20 | iP | Z | D | |
| | | 2034.00 | S | Z | | |
| LCR2 | 16 | 142034.20 | iP | Z | D | |
| | | 2039.10 | S | Z | | |
| ICR | 16 | 142034.95 | iP | Z | C | |
| URS | 16 | 142036.70 | iP | Z | C | |
| QCR | 16 | 142039.00 | iP | Z | D | |
| | | 2048.00 | S | Z | | |
| JCR | 16 | 142045.10 | iP | Z | C | |
| BUS | 16 | 142039.15 | eP | Z | + | |
| PRS | 16 | 142032.20 | iP | Z | | |

1.5 Km., al Este de Río Segundo Alajuela, Costa Rica, MD= 4.6 *

| | | | | | | |
|------|----|-----------|----|---|---|--|
| SJS | 17 | 043044.70 | iP | Z | D | |
| | | 3047.20 | S | Z | | |
| ICR | 17 | 043048.90 | iP | Z | C | |
| LCR2 | 17 | 043047.50 | iP | Z | C | |
| | | 3052.10 | S | Z | | |
| PRS | 17 | 043045.80 | iP | Z | D | |
| URS | 17 | 043049.85 | iP | Z | C | |
| | | 3058.20 | S | Z | | |
| QCR | 17 | 043052.60 | iP | Z | D | |
| | | 3101.20 | S | Z | | |
| JCR | 17 | 043058.25 | eP | Z | - | |
| VCR | 17 | 043107.20 | iP | Z | C | |
| BUS | 17 | 043052.90 | iP | Z | D | |

4 Km., al sureste de Río Segundo de Alajuela, Costa Rica, MD= 4.4 *

| | | | | | | |
|------|----|-----------|----|---|--|--|
| SJS | 18 | 025900.00 | eP | Z | | |
| LCR2 | 18 | 025902.00 | eP | Z | | |
| URS | 18 | 025901.00 | eP | Z | | |
| BUS | 18 | 025902.90 | eP | Z | | |

Islas Mindanao, Filipinas, MB= 5.9

| | | | | | | |
|------|----|-----------|----|---|---|--|
| SJS | 18 | 055803.70 | iP | Z | C | |
| LCR2 | 18 | 055806.00 | iP | Z | D | |
| QCR | 18 | 055806.00 | iP | Z | C | |
| VCR | 18 | 055746.30 | iP | Z | C | |
| JCR | 18 | 055753.60 | iP | Z | C | |
| BUS | 18 | 055810.00 | iP | Z | C | |

Frontera entre México y Guatemala, MB= 4.6

FEBRERO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|-----|-----|-----------|------|------|-----|
| SJS | 20 | 045609.90 | eP | Z | |
| BUS | 20 | 045610.00 | eP | Z | + |

Telesismo.

| | | | | | |
|-----|----|-----------|----|---|--|
| SJS | 24 | 060925.50 | eP | Z | |
| URS | 24 | 060927.00 | eP | Z | |

Frente a la Costa Pacifica del Salvador, MB= 4.7

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 24 | 064753.20 | eF | Z | |
| LCR2 | 24 | 064755.70 | eF | Z | |
| URS | 24 | 064758.00 | eF | Z | |
| VCR | 24 | 064736.00 | eF | Z | |
| QCR | 24 | 064757.00 | eF | Z | |
| JCR | 24 | 064742.80 | iF | Z | D |

Regional.

| | | | | | |
|------|----|-----------|----|---|--|
| SJS | 24 | 115936.80 | eF | Z | |
| LCR2 | 24 | 115938.20 | eF | Z | |
| URS | 24 | 115941.00 | eF | Z | |
| VCR | 24 | 115931.00 | eF | Z | |
| QCR | 24 | 115943.00 | eF | Z | |
| JCR | 24 | 115928.00 | eF | Z | |

El Salvador, MB= 4.7

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 27 | 162529.50 | eP | Z | |
| LCR2 | 27 | 162533.00 | eP | Z | |
| ICR | 27 | 162535.00 | eP | Z | |
| PRS | 27 | 162537.00 | iF | Z | C |
| JCR | 27 | 162517.00 | eP | Z | |
| BUS | 27 | 162537.00 | eP | Z | |

Regional.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 27 | 195826.50 | eP | Z | |
| LCR2 | 27 | 195828.00 | eP | Z | |
| PRS | 27 | 195831.60 | iF | Z | D |
| JCR | 27 | 195812.50 | eP | Z | |
| BUS | 27 | 195832.10 | iF | Z | D |

Regional.

MARZO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| SJS | 01 | 173057.10 | iP | Z | D |
| LCR2 | 01 | 173058.50 | iP | Z | C |
| URS | 01 | 173059.50 | iP | Z | C |
| PRS | 01 | 173056.50 | iP | Z | C |
| QCR | 01 | 173101.10 | iP | Z | C |
| BUS | 01 | 173101.80 | iP | Z | C |
| ACR | 01 | 173112.80 | iP | Z | C |
| JCR | 01 | 173055.90 | iP | Z | |
| VCR | 01 | 173101.20 | iP | Z | D |

16 Km al Norte de San Rafael de Guatuzo MD= 5.5
Intensidad II y III San José.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 02 | 033358.70 | eP | Z | |
| URS | 02 | 033402.20 | iP | Z | |
| VCR | 02 | 033341.60 | iP | Z | D |
| LCR2 | 02 | 033400.00 | iP | Z | |
| BUS | 02 | 033404.30 | iP | Z | D |
| QCR | 02 | 033401.50 | iP | Z | C |
| ICR | 02 | 033401.00 | eP | Z | |

Guatemala Mb= 4.5

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 02 | 041444.00 | iP | Z | D |
| VCR | 02 | 041421.50 | iP | Z | C |
| LCR2 | 02 | 041444.00 | eP | Z | |
| BUS | 02 | 041448.20 | iP | Z | D |
| QCR | 02 | 041443.90 | iP | Z | D |
| SRA | 02 | 041453.00 | eP | Z | |

Cerca de la Costa de Guatemala Mb= 4.3

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 04 | 155130.80 | eP | Z | C |
| ACR | 04 | 155104.80 | iP | Z | D |
| QCR | 04 | 155124.90 | iP | Z | C |
| | | 5144.50 | S | Z | |
| URS | 04 | 155126.50 | iP | Z | C |
| | | 5149.00 | S | Z | |
| PRS | 04 | 155132.30 | iP | Z | - |
| SRA | 04 | 155135.60 | eP | Z | |
| VCR | 04 | 155148.25 | iP | Z | D |

30 Km al Noroeste de Punta Eurica MD= 4.1

MARZO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|-----|-----|-----------|------|------|-----|
| SJS | 05 | 135044.60 | iF | Z | D |
| PRS | 05 | 135043.80 | eF | Z | C |
| URS | 05 | 135042.00 | iF | Z | D |
| ICR | 05 | 135045.80 | iF | Z | D |
| QCR | 05 | 135035.30 | iF | Z | D |
| VCR | 05 | 135051.20 | iF | Z | D |
| SRA | 05 | 135047.00 | eF | Z | |

Cerca de la Costa de América Central Mb= 5.9

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 05 | 200950.90 | eF | Z | |
| PRS | 05 | 200948.00 | eF | Z | |
| URS | 05 | 200954.90 | eF | Z | |
| LCR2 | 05 | 200952.00 | iF | Z | |
| QCR | 05 | 200954.10 | iF | Z | C |
| BUS | 05 | 200957.70 | eF | Z | - |
| VCR | 05 | 200932.00 | iF | Z | D |
| SRA | 05 | 200944.90 | iF | Z | C |

Regional.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 06 | 072258.90 | eF | Z | |
| PRS | 06 | 072300.00 | eF | Z | |
| URS | 06 | 072254.80 | iF | Z | C |
| LCR2 | 06 | 072256.20 | eF | Z | |
| LIO | 06 | 072254.30 | eF | Z | |
| SRA | 06 | 072306.00 | eF | Z | |

Regional.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 06 | 192709.50 | eF | Z | |
| | | 2758.80 | S | Z | |
| PRS | 06 | 192710.80 | iF | Z | C |
| LCR2 | 06 | 192706.10 | eF | Z | D |
| ICR | 06 | 192709.00 | eF | Z | D |
| URS | 06 | 192706.50 | iF | Z | D |
| | | 2749.00 | S | Z | |
| VCR | 06 | 192727.90 | eF | Z | |
| JCR | 06 | 192720.90 | eF | Z | |
| QCR | 06 | 192707.00 | eF | Z | |
| LIO | 06 | 192701.00 | eF | Z | |

Panamá Mb= 4.5

| | | | | | |
|------|----|-----------|----|---|--|
| SJS | 10 | 212311.30 | eF | Z | |
| URS | 10 | 212306.00 | eF | Z | |
| ICR | 10 | 212310.30 | eF | Z | |
| LCR2 | 10 | 212307.10 | eF | Z | |

Regional.

MARZO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| SJS | 12 | 031858.70 | iP | Z | D |
| BUS | 12 | 031851.30 | iP | Z | C |
| URS | 12 | 031854.30 | iP | Z | C |
| | | 1872.00 | S | Z | |
| QCR | 12 | 031855.20 | iP | Z | D |
| LCR2 | 12 | 031856.00 | iP | Z | C |
| | | 1874.40 | S | Z | |
| ICR | 12 | 031857.00 | iP | Z | C |
| VCR | 12 | 031918.40 | iP | Z | D |

9.5 Km Sureste-Este de San Vito de Coto Brus, MD= 4.4
Intensidad, II San José y III San Vito.

| | | | | | |
|-----|----|-----------|----|---|--|
| SJS | 13 | 011030.10 | eP | Z | |
| URS | 13 | 011035.00 | eP | Z | |
| VCR | 13 | 011013.50 | eP | Z | |
| BUS | 13 | 011036.30 | eP | Z | |

Cerca de la Costa de Nicaragua, Mb= 4.8

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 13 | 084345.50 | iP | Z | D |
| URS | 13 | 084343.00 | iP | Z | C |
| LCR2 | 13 | 084342.80 | iP | Z | C |
| VCR | 13 | 084355.00 | eP | Z | |
| BUS | 13 | 084339.20 | iP | Z | D |
| QCR | 13 | 084338.80 | iP | Z | |
| ACR | 13 | 084324.70 | eP | Z | |
| SRA | 13 | 084348.50 | eP | Z | D |

Sur de Panamá Mb= 5.0

| | | | | | |
|-----|----|-----------|----|---|--|
| SJS | 13 | 093043.10 | eP | Z | |
| SRA | 13 | 093036.00 | eP | Z | |

Telesismo.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 15 | 144123.60 | iP | Z | D |
| | | 4128.20 | S | Z | |
| LCR2 | 15 | 144124.30 | iP | Z | C |
| | | 4129.30 | S | Z | |
| QCR | 15 | 144126.50 | eP | Z | |
| ICR | 15 | 144127.60 | iP | Z | |
| | | 4134.40 | S | Z | |
| URS | 15 | 144128.40 | iP | Z | C |
| | | 4136.00 | S | Z | |
| BUS | 15 | 144129.50 | iP | Z | D |
| FQR | 15 | 144132.20 | iP | Z | D |
| VCR | 15 | 144157.20 | iP | Z | C |

2Km al Sur de Guayabo de Mora, Intensidad II San José, Costa Rica

MARZO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| SJS | 16 | 060235.00 | iP | Z | D |
| VCR | 16 | 060216.30 | iP | Z | D |
| QCR | 16 | 060234.10 | eP | Z | |
| BUS | 16 | 060238.70 | iP | Z | D |
| FDR | 16 | 060229.70 | iP | Z | - |
| ICR | 16 | 060238.70 | iP | Z | C |
| LCR2 | 16 | 060235.10 | iP | Z | C |
| LID | 16 | 060249.90 | iP | Z | C |

90Km SSW de Sámara, MD= 5.8

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 16 | 033243.80 | iP | Z | D |
| ICR | 16 | 063247.50 | iP | Z | C |
| URS | 16 | 063248.00 | iP | Z | C |
| | | 3312.00 | S | Z | |
| LCR2 | 16 | 063244.10 | iP | Z | C |
| VCR | 16 | 063223.00 | iP | Z | D |
| BUS | 16 | 063243.80 | iP | Z | |
| FDR | 16 | 063237.20 | iP | Z | |
| LID | 16 | 063257.00 | iP | Z | |

20Km SW sw Sámara, MD= 4.8

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 16 | 115141.00 | iP | Z | D |
| ICR | 16 | 115150.10 | iP | Z | D |
| LCR2 | 16 | 115146.60 | iP | Z | |
| BUS | 16 | 115150.30 | iP | Z | |
| FDR | 16 | 115140.40 | iP | Z | + |
| URS | 16 | 115149.70 | iP | Z | |
| | | 5215.80 | S | Z | |
| JCR | 16 | 115129.80 | iP | Z | |
| VCR | 16 | 115125.90 | iP | Z | |

30Km al SW de Sámara, MD= 4.5

| | | | | | |
|-----|----|-----------|----|---|---|
| SJS | 20 | 131246.00 | eP | Z | |
| BUS | 20 | 131238.60 | eP | Z | |
| JCR | 20 | 131248.20 | eP | Z | C |

Cerca de la Costa Norte del Perú, Mb= 5.3

OK

MARZO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|------|-----|-----------|------|------|-----|
| SJS | 21 | 021821.00 | iF | Z | C |
| | | 1848.70 | S | Z | |
| LCR2 | 21 | 021821.30 | eF | Z | D |
| URS | 21 | 021825.50 | iF | Z | D |
| BUS | 21 | 021825.30 | iF | Z | C |
| VCR | 21 | 021802.40 | iF | Z | - |
| | | 1808.30 | S | Z | |
| LID | 21 | 021836.20 | eF | Z | C |
| SRA | 21 | 021815.10 | iF | Z | D |
| | | 1831.00 | S | Z | |

12 Km Sur de Sámara, MD= 4.1

| | | | | | |
|-----|----|-----------|----|---|--|
| SJS | 21 | 055748.00 | eF | Z | |
| URS | 21 | 055747.00 | eF | Z | |
| SRA | 21 | 055750.30 | eF | Z | |

Cerca de la Costa Norte del Perú, Mb= 5.5

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 22 | 045854.20 | iF | Z | C |
| VCR | 22 | 045859.80 | iF | Z | C |
| LID | 22 | 045909.00 | iF | Z | C |
| ICR | 22 | 045858.00 | iF | Z | C |
| LCR2 | 22 | 045853.25 | iF | Z | D |
| URS | 22 | 045858.00 | iF | Z | D |
| | | 5911.00 | S | Z | |
| BUS | 22 | 045857.80 | iF | Z | C |
| QCR | 22 | 045850.90 | iF | Z | |

7 Km W de Playa Jacó, MD= 4.78, Intensidad III San José IV Jacó.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 25 | 201029.90 | eF | Z | D |
| BUS | 25 | 201022.00 | iF | Z | D |
| LCR2 | 25 | 201027.10 | iF | Z | |
| LID | 25 | 201025.70 | iF | Z | D |
| QCR | 25 | 201025.00 | iF | Z | |
| | | 1047.00 | S | Z | |
| URS | 25 | 201026.00 | iF | Z | C |
| | | 1049.80 | S | Z | |
| VCR | 25 | 201047.00 | eF | Z | |

Puerto Armuelles Panamá, MD= 3.9

| | | | | | |
|------|----|-----------|----|---|--|
| SJS | 26 | 123853.00 | eF | Z | |
| LCR2 | 26 | 123856.90 | iF | Z | |
| URS | 26 | 123852.30 | eF | Z | |
| BUS | 26 | 123852.90 | eF | Z | |

Región de República Dominicana Mb= 5.6

MARZO 1991

| EST | DIA | TIEMPO | FASE | COMP | POL |
|-----|-----|-----------|------|------|-----|
| SJS | 28 | 190333.20 | eP | Z | - |
| URS | 28 | 190337.00 | eP | Z | |
| JCR | 28 | 190320.50 | eP | Z | |
| VCR | 28 | 190312.60 | iP | Z | |
| QCR | 28 | 190335.00 | eP | Z | |

Telesismo.

| | | | | | |
|------|----|-----------|----|---|---|
| SJS | 30 | 010546.80 | eP | Z | |
| LOR2 | 30 | 010544.10 | eP | Z | |
| URS | 30 | 010542.00 | iP | Z | |
| BUS | 30 | 010538.00 | iP | Z | |
| QCR | 30 | 010541.00 | iP | Z | + |

Regional.

| | | | | | |
|-----|----|-----------|----|---|--|
| SJS | 30 | 024509.90 | eP | Z | |
| BUS | 30 | 024504.60 | eP | Z | |
| URS | 30 | 024508.00 | eP | Z | |
| QCR | 30 | 024502.50 | eP | Z | |

Telesismo.

| | | | | | |
|-----|----|-----------|----|---|--|
| SJS | 30 | 161230.00 | eP | Z | |
| VCR | 30 | 161206.00 | eP | Z | |
| URS | 30 | 161236.50 | eP | Z | |

Regional.

Diseño:

Guillermo Á Avila R

REC m:01-01-1991

REC M:31-01-1991

GMT=00h-24h

LAT= 7.50°-11.50°

LO=82.50°-86.50°

BRF= 0.0- 999.9 Km

MAG= 0.0- 9.9

SIMBOLOGIA:

M=3 □ M=4 ◇ M=5 +

M=6 △ M=7 ▽ M=8 ○

SIA *

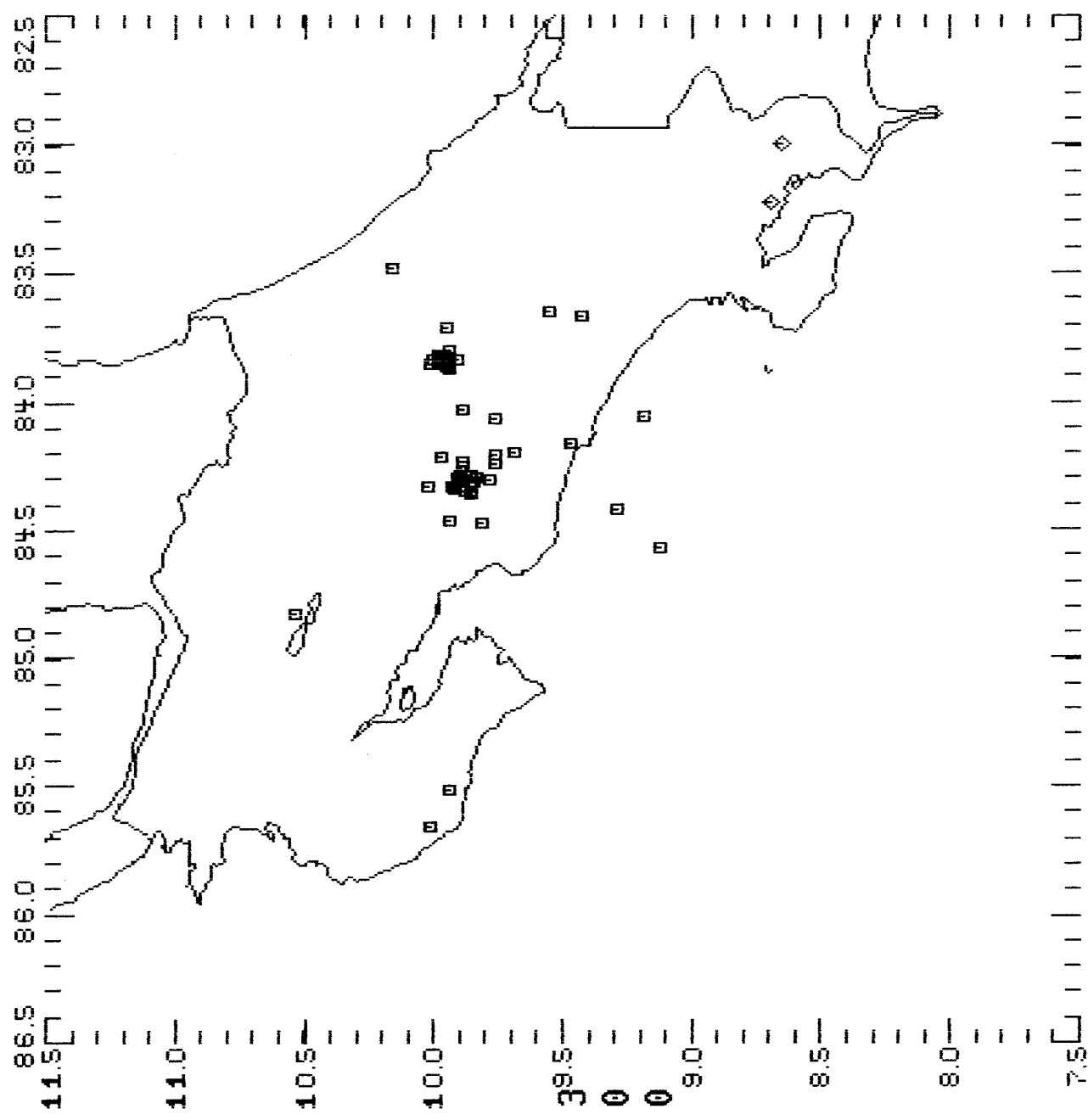
BASE.:RSN1991

NSIS: 77

M<3.9: 74 4≤M<5: 39.5

5≤M<6: 0 6≤M<7: 0

7≤M<8: 0 M≥8 : 0



Diseño:

Guillermo Ávila R

FEC m:01-02-1991

FEC M:28-02-1991

GMT=00h-24h

LAT= 7.50°-11.50°

LOX=82.50°-86.50°

PRF= 0.0- 999.9 Km

MAG= 0.0- 9.9

SIMBOLOGIA:

M=3 □ M=4 ◇ M=5 +

M=6 △ M=7 ▽ M=8 ○

STA *

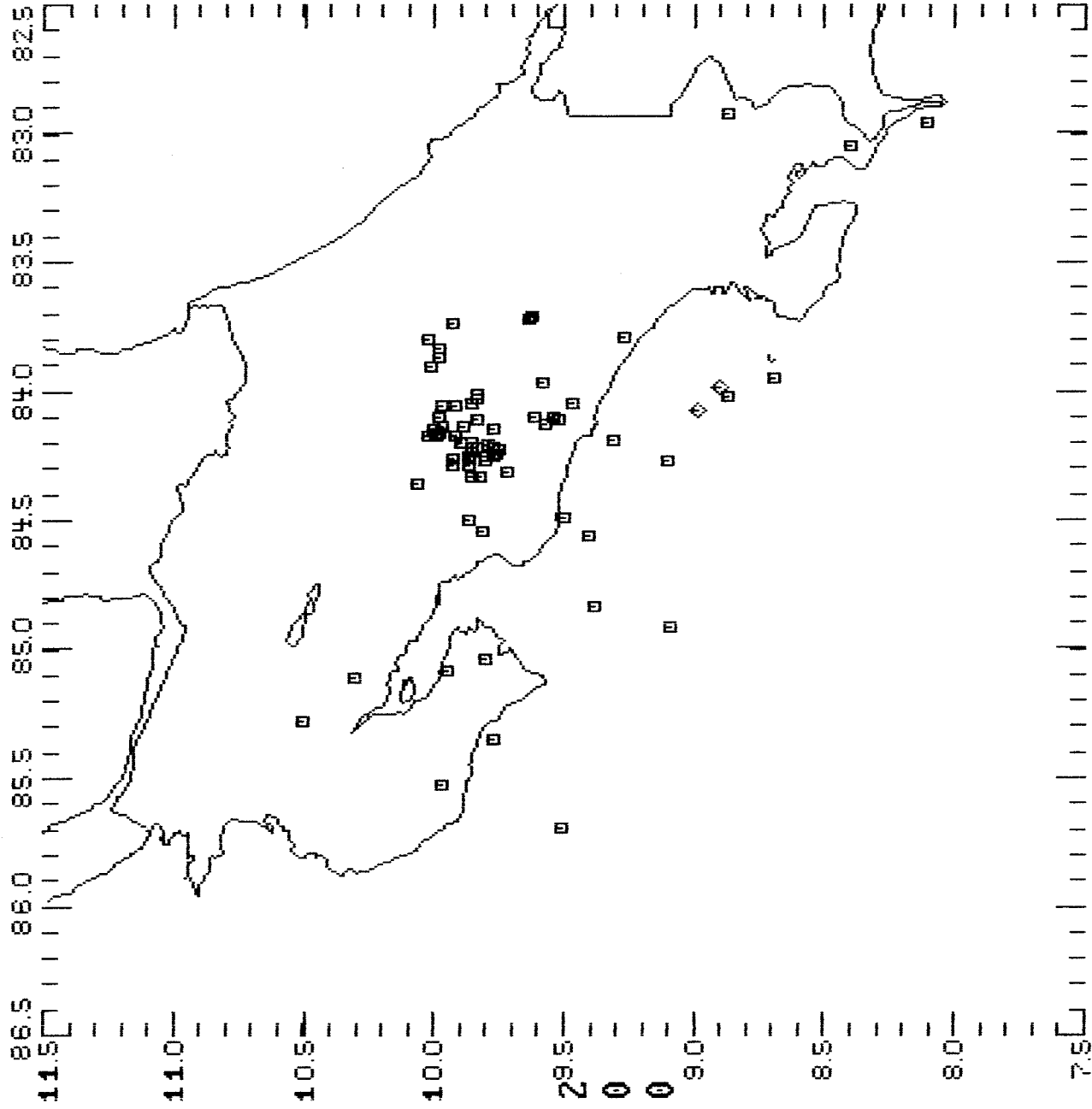
BASE.:RSN1991

N SIS: 73

M<3.9: 71 4<M<5: 28.5

5<M<6: 0 6<M<7: 0

7<M<8: 0 M>8 : 0



Diseño:

Guillermo Á Avila R

FEC m:01-03-1991

FEC M:31-03-1991

GMT=00h-24h

LAT= 7.50°-11.50°

LOE=82.50°-86.50°

PRF= 0.0- 999.9 Km

MAG= 0.0- 9.9

SIMBOLOGIA:

M=3 □ M=4 ◇ M=5 +

M=6 △ M=7 ▽ M=8 ○

STA *

BASE.:RSN1991

N SIS: 62

M<3.9: 52 4<M<5: 8

5<M<6: 2 6<M<7: 0

7<M<8: 0 M≥8 : 0

