

| <i>Name and Number of Bench Mark</i> | <i>Levellings</i> | | <i>Differences</i> |
|------------------------------------------|-------------------|----------|--------------------|
| | 1961 | 1966 | |
| Hotel Papagayo, Bench Mark # 11 | 2,452 m. | 2.471 m. | - 0.019 m. |
| Bench Mark # 10 | 3,419 | 3,400 | + 0.019 |
| Bench Mark # 9 | 2.885 | 2.859 | + 0.026 |
| Bench Mark Y 150 | 3.331 | 3.093 | + 0.238 |
| Bench Mark Y 151 | 2.617 | 2.359 | + 0.258 |

| <i>Name and Number of Bench Mark</i> | <i>Levellings</i> | | <i>Differences</i> |
|----------------------------------------------------------------------------------|-------------------|----------|--------------------|
| | 1961 | 1966 | |
| Bench Mark N ^o 4 located in the vicinity of the tide-gauge station | 2.361 m. | 2.342 m. | + 0.029 |

These results indicate appreciable displacements of ground in the zone where earthquakes reached their highest intensity.

III GEODETIC ASTRONOMY

4) ASTRONOMIC POSITIONS DETERMINED WITH A PENDULUM ASTROLABE.

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| <i>N^o</i> | <i>Station</i> | <i>Latitude</i> | <i>Longitude</i> |
|----------------------|-----------------------------|-----------------|------------------|
| 1 | Lachivixhuyo, Oax. | 16°48'40".52 | 94°57'55".43 |
| 2 | Lázaro Cárdenas, Oax. | 16°43'34".91 | 94°51'46".05 |
| 3 | S. Miguel Chimalapa, Oax. | 16°42'51".20 | 94°45'03".23 |
| 4 | S. Felipe Cihualtepec, Oax. | 17°28'47".34 | 95°22'13".52 |
| 5 | Finca Colombia, Oax. | 17°24'42".95 | 94°58'32".68 |

| Nº | Station | Latitude | Longitude |
|----|-------------------------------|--------------|---------------|
| 6 | Pueblo Viejo, Chis. | 16°53'36".75 | 93°52'09".45 |
| 7 | Laguna Majahual, Ver. | 18°39'49".61 | 95°18'20".82 |
| 8 | Santecomacan, Ver. | 18°30'24".21 | 95°01'59".67 |
| 9 | Chiquilistlán, Jal. | 20°05'28".69 | 103°51'56".51 |
| 10 | Ejutla, Jal. | 19°54'18".01 | 104°09'43".09 |
| 11 | La Repecha, Jal. | 19°46'37".37 | 104°38'05".18 |
| 12 | La Servilleta, Jal. | 20°02'46".75 | 104°42'52".62 |
| 13 | Huitzilá, Zac. | 21°13'17".08 | 103°36'31".17 |
| 14 | Teul de González Ortega, Zac. | 21°27'49".95 | 103°27'52".06 |
| 15 | La Escondida, Jal. | 21°37'46".70 | 103°44'26".68 |
| 16 | Sta. Teresa, Zac. | 21°17'22".99 | 103°09'46".37 |
| 17 | Telacruz, Jal. | 19°17'20".72 | 104°09'20".92 |
| 18 | Puerto Totzin, Jal. | 19°31'31".23 | 104°00'41".29 |
| 19 | Ciudad Guzmán, Jal. | 19°44'20".26 | 103°32'27".95 |

5) ASTRONOMIC POSITION AND AZIMUTHAL DETERMINATIONS IN THE SOUTHERN BORDER OF THE COUNTRY.

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 Affairs.

To give more rigidity to a geodetic polygon in the southern border of the country, the following astronomic operations have been performed and azimuthal measurements executed: