

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:

No.	Station	Latitude $e_p$	Longitude $e_p$
1	Hydrometric Station of Usamacinta River (El Tigre.)	$16^{\circ}36'36''.1 \pm 0.9$	$90^{\circ}39'38''.6 \pm 0.6$
2	Station No. 2 of the control geodetic polygon (Ciudad Hidalgo)	$14^{\circ}40'45''.3 \pm 0.4$	$92^{\circ}09'03''.2 \pm 1.0$
3	Azimuth of side 2-2 of geodetic polygon		$= 229^{\circ}34'54''.4 \pm 1''.0$
4	Azimuth of side 73-74 of geodetic polygon		$= 278^{\circ}21'36''.6 \pm 2''.1$
5	Azimuth of side 270-279 of geodetic polygon		$= 212^{\circ}00'01''.4 \pm 2''.8$
6	Station No. 209 of the geodetic polygon	$14^{\circ}49'30''.7 \pm 1.0$	$92^{\circ}11'45''.3 \pm 0.9$

A T-2 Wild instrument was employed in the operation, following the method of equal heights of stars for the determination of the "hour" and that of Litrow for the latitude.

#### BIBLIOGRAPHY

MEDINA PERALTA, M. and F. ALONSO LERCH, 1962. Nuevas Tablas para la Aplicación del Método de Díaz Covarrubias para la Determinación de la Hora. *Anales del Instituto de Geofísica, U.N.A.M., Apéndice III*, 8 pp., 8 tables, 2 nomograms.

#### IV GRAVIMETRY

A) REPORT ON THE WORK OF THE DEPARTMENT OF GRAVIMETRY OF THE INSTITUTE OF GEOPHYSICS. N.A.U.M.

August 1963 - December 1966.

*Introduction.* During the period running from August 1963 to September 1966, the three principal programs of work on gravity measurements have continued as follows: