

## 9. Central America

### 9.1 Introduction

For this section of the publication, the area of Central America will include: British Honduras, Canal Zone, Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, and Panama.

The adopted gravity values and estimated accuracies are relative to Potsdam ( $g = 981\,274$  mgals) and the scale was set by an interval of 1228.48 mgals on the American Calibration Line between Houston A And Great Falls A.

9.2 Gravity Base Stations

Central America



CROSS REFERENCE LIST  
BRITISH HONDURAS

STATION DESIGNATION	ACIC REF NO
RFLIZE	0204-3
COROZAL	0370-1

CROSS REFERENCE LIST  
CANAL ZONE

STATION DESIGNATION	ACIC REF NO
PANAMA	0115-0

CROSS REFERENCE LIST  
COSTA RICA

STATION DESIGNATION	ACIC REF NO
57 ✓ GOLFITO	0137-1
58 ✓ LIBERIA	0141-1
59 ✓ LOS CHILFS	0149-1
76 ✓ NICOYA	4552-1
54 ✓ PUERTO LIMON	0134-1
75 ✓ PUNTARENAS	4551-1
SAN JOSE	0215-3

CROSS REFERENCE LIST  
EL SALVADOR

STATION DESIGNATION	ACIC REF NO
LA UNION	0340-1
SAN SALVADOR	0371-4

CROSS REFERENCE LIST  
GUATEMALA

STATION DESIGNATION	ACIC REF NO
CHAHAL	0173-1
DOS LAGUNAS	4553-1
FALLABAN	4554-1
GUATEMALA	0062-2
MALACATAN	4555-1
PASO CABALLOS	0169-1
PUERTO BARRIOS	1048-2
SAN JOSE	0172-1
SANTO TORBIDO	0151-1

CROSS REFERENCE LIST  
HONDURAS

STATION DESIGNATION	ACIC REF NO
AHUAS	4885-1
AMAPALA	4886-1
BRIUS LAGUNA	4887-1
COMAYAGUA	4888-1
ERANDIGUÉ	4889-1
JUTICALPA	4890-1
LA CEIBA	1047-1
LA UNION	4891-1
NIJEVA OCOTOPEQUE	4556-2
PUERTO CORTÉS	0461-1
PUERTO LEMPIRA	4892-1
PUJINAS DE COPAN	4557-2
SAN ESTERAN	4893-1
SAN MARCOS DE COLON	4894-1
SANTA BARBARA	4895-1
SANTA MARIA	4896-1
TEGUCIGALPA	0358-1
TRUJILLO	4897-1
VICTORIA	4898-1

CROSS REFERENCE LIST  
NICARAGUA

STATION DESIGNATION	ACIC REF NO
PLUFFIELDS	0009-1
MANAGUA	0357-0
PUERTO CABEZAS	0372-2
SAN JUAN DEL SUR	0015-1
SIUNA	0012-1
WASPAN	0010-1

CROSS REFERENCE LIST  
PANAMA

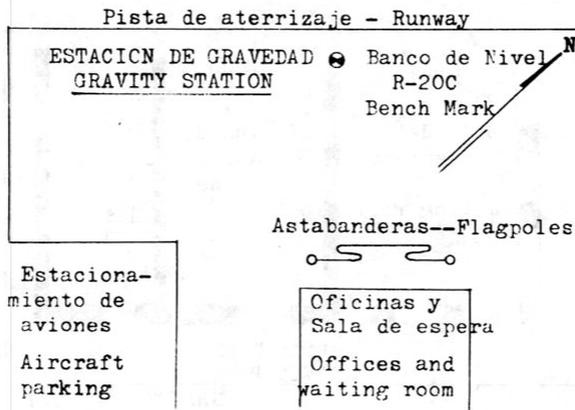
STATION DESIGNATION	ACIC REF. NO
DAVID	0008-1
PANAMA	0115-5

### GRAVITY BASE STATION

LATITUDE	08° 23.5'N	(1)	STATION DESIGNATION	
LONGITUDE	82° 25.9'W	(1)	DAVID	
ELEVATION	20.11	METERS (1)	COUNTRY/STATE	
			Panama	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 0008-1			$g =$	978 160.41 mgals
			ESTIMATED ACCURACY	DATE
			$\pm$ 0.3 mgals	MONTH/YEAR
			8/70	

**DESCRIPTION AND/OR SKETCH**

The same as Bench Mark R20C located at the airport at David on top of a 0.3 meter square concrete monument set 0.85 meter northwest of the west flagpole at the David hangar, and 17 meters southeast of the edge of the runway nearest the hangar. The station is marked with a standard IAGS disc in the top of the monument and stamped "COTREF R20C 1949". (1)



REFERENCE SOURCE

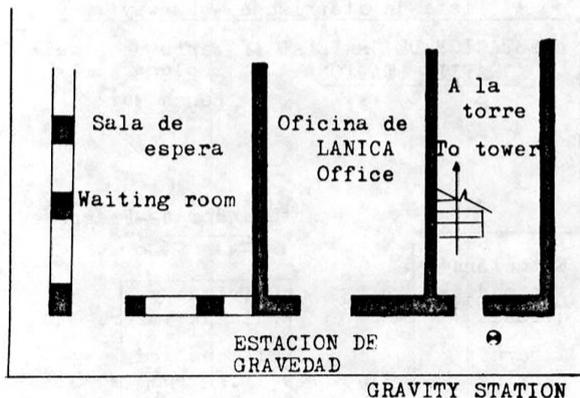
(1) 03058

### GRAVITY BASE STATION

LATITUDE 12° 00.8'N (1)	STATION DESIGNATION BLUEFIELDS	
LONGITUDE 83° 46.3'W (1)		
ELEVATION 24.3 METERS (1)	COUNTRY/STATE Nicaragua	
REFERENCE CODE NUMBERS	ADOPTED GRAVITY VALUE	
ACIC 0009-1	$g = 978\ 297.55$ mgals	
	ESTIMATED ACCURACY	DATE
	$\pm 0.3$ mgals	MONTH/YEAR 8/70

**DESCRIPTION AND/OR SKETCH**

At the terminal building for the Bluefields airport, on the taxiway side of the building, under the tower, on a small porch running around the terminal building. The station is approximately 30 centimeters to the right (facing taxiway from terminal) of the farthest right hand door into the terminal building. The station is marked by an IAGS disc stamped "Gravity 1962". (1)



Pista - Runway

(1)

**REFERENCE SOURCE**

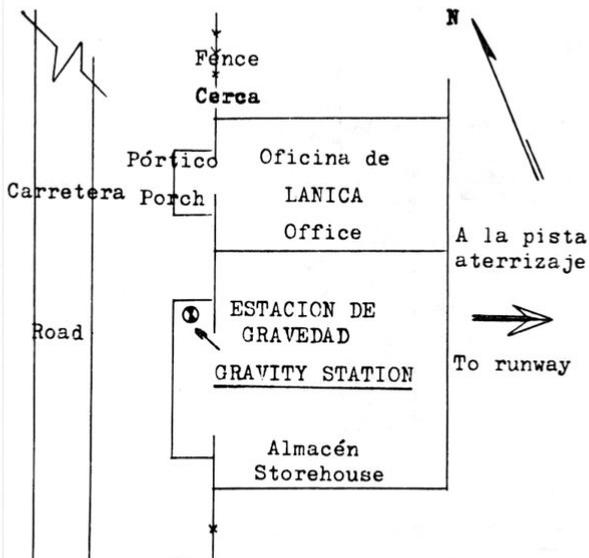
(1) 03058

### GRAVITY BASE STATION

LATITUDE	14° 40.7'N (1)	STATION DESIGNATION		WASPAN
LONGITUDE	84° 01.0'W (1)			
ELEVATION	15.2 METERS (1)	COUNTRY/STATE Nicaragua		
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE		
ACIC 0010-1		g = 978 401.40 mgals		
		ESTIMATED ACCURACY		
		± 0.3 mgals	DATE	
			MONTH/YEAR	
			8/70	

**DESCRIPTION AND/OR SKETCH**

On the concrete walk (large step) on the street side of the store house and the building housing the Lanica offices in the north end on the outside corner of this concrete walk toward the porch of the Lanica office. "BM 36.631" is painted on the outside wall beside the station. The station is not marked. (1)



(1)

**REFERENCE SOURCE**

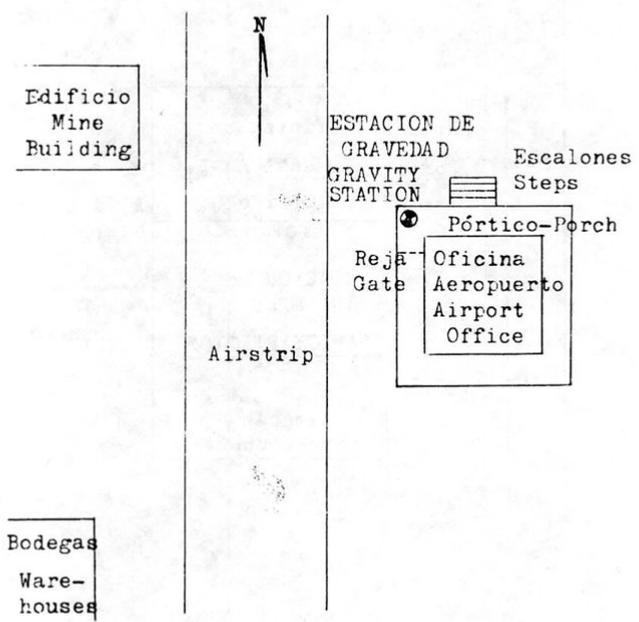
(1) 03058

### GRAVITY BASE STATION

LATITUDE	13° 39.2'N	(1)	STATION DESIGNATION	
LONGITUDE	84° 38.0'W	(1)	SIUNA	
ELEVATION	146.3	METERS (1)	COUNTRY/STATE	
			Nicaragua	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 0012-1			g = 978 324.34 mgals	
			ESTIMATED ACCURACY	DATE
			+ 0.3 mgals	MONTH/YEAR
				8/70

**DESCRIPTION AND/OR SKETCH**

On the northwest corner of the porch of the Lanica office building on the outside edge of porch. This is the corner at the front (stair side) of the building and nearest the taxiway. The station is not marked. (1)



(1)

**REFERENCE SOURCE**

(1) 03058

### GRAVITY BASE STATION

LATITUDE <div style="text-align: right; padding-right: 20px;">11° 15.4'N (1)</div>	STATION DESIGNATION <div style="text-align: center;">SAN JUAN DEL SUR</div>	
LONGITUDE <div style="text-align: right; padding-right: 20px;">85° 53.2'W (1)</div>		
ELEVATION <div style="text-align: right; padding-right: 20px;">4.88 METERS (1)</div>	COUNTRY/STATE <div style="text-align: center;">Nicaragua</div>	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE
ACIC 0015-1		g = 978 259.77 mgals
WA 4036		
		ESTIMATED ACCURACY
		+ 0.3 mgals
		DATE
		MONTH/YEAR
		8/70

**DESCRIPTION AND/OR SKETCH**

On the third concrete step at J. Vassalli's store, on the water front near the freight sheds. (1)

**REFERENCE SOURCE**

(1) 03058

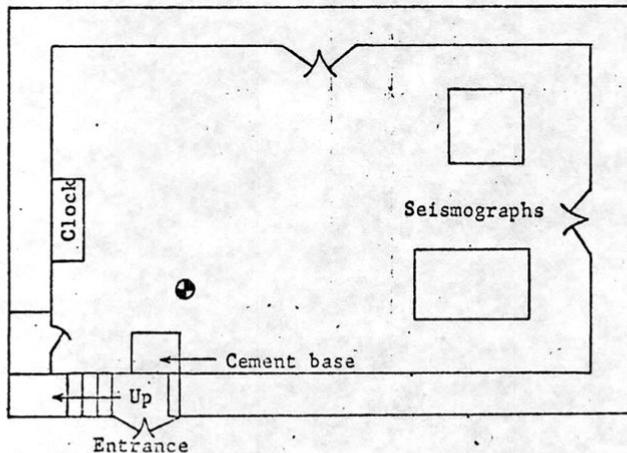
52

### GRAVITY BASE STATION

LATITUDE 14° 35.1'N (2)		STATION DESIGNATION GUATEMALA CITY	
LONGITUDE 90° 32.0'W (2)		COUNTRY/STATE Guatemala	
ELEVATION 1498.148 METERS (2)		ADOPTED GRAVITY VALUE g = 977 981.21 mgals	
REFERENCE CODE NUMBERS		ESTIMATED ACCURACY	
ACIC 0062-2		± 0.3 mgals	DATE
IGB 04640A			MONTH/YEAR
NHO 68.00			8/70

**DESCRIPTION AND/OR SKETCH**

The station is in Guatemala City at the National Observatory, in the Seismograph room on the floor. (1)



(1)

**REFERENCE SOURCE**

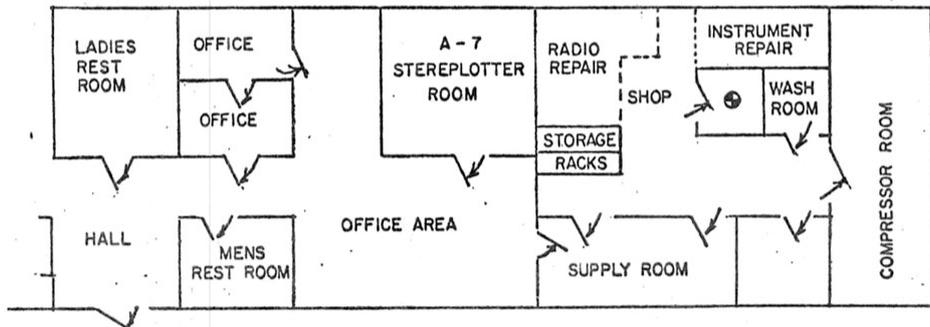
(1) 02632

### GRAVITY BASE STATION

LATITUDE	08° 58'N	(1)	STATION DESIGNATION	
LONGITUDE	79° 34'W	(1)	PANAMA	
ELEVATION	7	METERS (1)	COUNTRY/STATE	
			Panama/Canal Zone	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 0115-0			$g = 978\ 240.48$ mgals	
IGB 00889A				
GW 92				
DO 9692-63			ESTIMATED ACCURACY	DATE
NHO 34.00			± 0.2 mgals	MONTH/YEAR 9/70

**DESCRIPTION AND/OR SKETCH**

Observations were made in building 1019 at the Panama Air Depot (PAD), also called Albrook Industrial Area. The site is located on the ground floor in the multiplex room adjoining the radio shop. The area is occupied by the Logistics Division of the Inter-American Geodetic Survey (IAGS). The site is monumented with a bronze disk. This is a FOWGN station. (1)



BLDG. 1019 PAD  
IAGS LOGISTICS DIVISION

(1)

**REFERENCE SOURCE**

(1) 02752

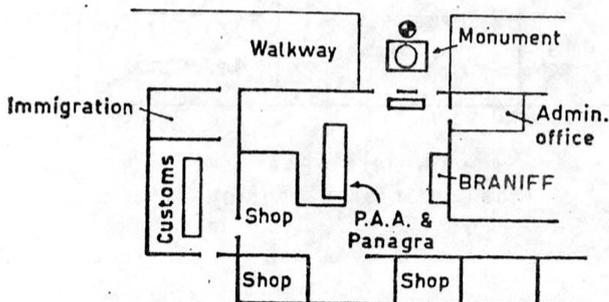
54

### GRAVITY BASE STATION

LATITUDE	09° 05.0'N	(1)	STATION DESIGNATION	
LONGITUDE	79° 22.9'W	(1)	PANAMA	
ELEVATION	38.7	METERS (1)	COUNTRY/STATE	
			Panama	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 0115-5			$g =$ 978 265.23 mgals	
IGB 00889J				
WA 4014				
DO 9655-63			ESTIMATED ACCURACY	DATE
			+ 0.2 mgals	MONTH/YEAR
				8/70

**DESCRIPTION AND/OR SKETCH**

Tocumen International Airport (Panama City). At IAGS gravity marker at base of Marcos A. Gelabert statue between Gate 1 and field, 23 centimeters above field level. (1)



(1)

**REFERENCE SOURCE**

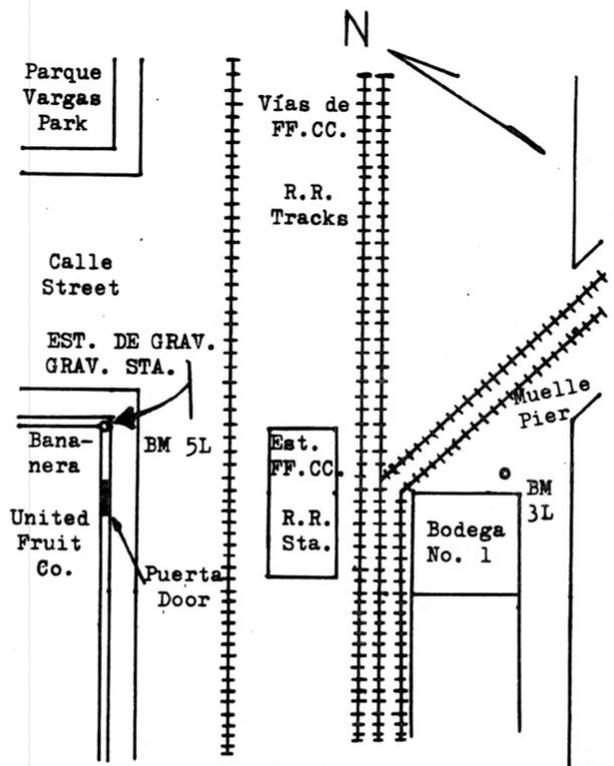
(1) 01412

### GRAVITY BASE STATION

LATITUDE	09° 59.6'N	(1)	STATION DESIGNATION	
LONGITUDE	83° 01.6'W	(1)	PUERTO LIMON	
ELEVATION	2.53	METERS (1)	COUNTRY/STATE	
			Costa Rica	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 0134-1			$g = 978\ 229.67$ mgals	
			ESTIMATED ACCURACY	DATE
			$\pm 0.3$ mgals	MONTH/YEAR
				9/70

**DESCRIPTION AND/OR SKETCH**

In the concrete foundation wall at the southeast corner of the United Fruit Company Building, 8 meters northwest of the intersection of Avenida 1 and Calle 1, 21 meters west of the southwest entrance to Vargas Park, and 28 meters southeast of the entrance to the U. S. Consul's office. The station is the same as Tidal BM #5L and is marked by a standard disc stamped "5L 1948". (1)



**REFERENCE SOURCE**

(1) 03058

### GRAVITY BASE STATION

LATITUDE 08° 39.5'N (1)	STATION DESIGNATION GOLFITO		
LONGITUDE 83° 10.6'W (1)			
ELEVATION 15.2 METERS (1)	COUNTRY/STATE Costa Rica		
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 0137-1		g = 978 237.77 mgals	
WA 4049			
		ESTIMATED ACCURACY	DATE
		± 0.3 mgals	MONTH/YEAR
			9/70

**DESCRIPTION AND/OR SKETCH**

At the airport, at field level in front of the terminal. (1)

**REFERENCE SOURCE**

(1) 03058

### GRAVITY BASE STATION

LATITUDE	10° 38.2'N	(1)	STATION DESIGNATION LIBERIA	
LONGITUDE	.85° 27.5'W	(1)		
ELEVATION	53.34	METERS (1)	COUNTRY/STATE Costa Rica	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 0141-1			g = 978 195.59 mgals	
WA 4043				
			ESTIMATED ACCURACY	DATE
			± 0.3 mgals	MONTH/YEAR 9/70

**DESCRIPTION AND/OR SKETCH**

At the airport at field level in front of terminal. (1)

**REFERENCE SOURCE**

(1) 03058

58

### GRAVITY BASE STATION

LATITUDE		11° 02.3'N	(1)	STATION DESIGNATION		LOS CHILES	
LONGITUDE		84° 43.2'W	(1)				
ELEVATION		45.72	METERS (1)	COUNTRY/STATE		Costa Rica	
REFERENCE CODE NUMBERS				ADOPTED GRAVITY VALUE			
ACIC 0149-1				g = 978 243.16		mgals	
WA 4046							
				ESTIMATED ACCURACY		DATE	
				± 0.3 mgals		MONTH/YEAR	
						9/70	

DESCRIPTION AND/OR SKETCH

At the airport at field level in front of the terminal. (1)

REFERENCE SOURCE

(1) 03058

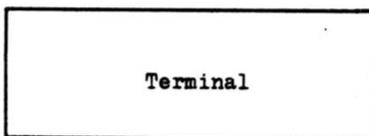
### GRAVITY BASE STATION

LATITUDE	16° 37.3'N	(1)	STATION DESIGNATION  SANTO TORBIDO	
LONGITUDE	89° 33.0'W	(1)		
ELEVATION	370.0	METERS (1)		
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 0151-1			g = 978 400.80 mgals	
WA 4021				
			ESTIMATED ACCURACY	DATE
			± 0.3 mgals	MONTH/YEAR 9/70

**DESCRIPTION AND/OR SKETCH**

The station is located very near the post 4 feet from the terminal on the center of opposite side from wind sock. (1)

Cono de viento  
⊙ Wind Sock



4 pies | 4 feet

Poste ○ Post

ESTACION DE GRAVEDAD • GRAVITY STATION

(1)

**REFERENCE SOURCE**

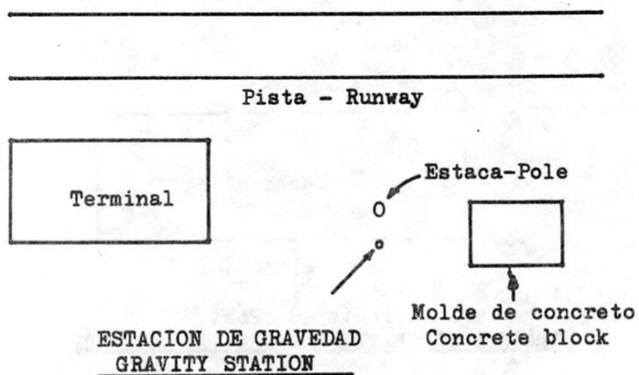
(1) 03058

### GRAVITY BASE STATION

LATITUDE	17° 15.6'N	(1)	STATION DESIGNATION	
LONGITUDE	90° 16.7'W	(1)	PASO CABALLOS	
ELEVATION	61.0	METERS (1)	COUNTRY/STATE	
			Guatemala	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 0169-1			g = 978 492.47 mgals	
WA 4023				
			ESTIMATED ACCURACY	DATE
			+ 0.3 mgals	MONTH/YEAR
				1/70

**DESCRIPTION AND/OR SKETCH**

At gravity marker "Gravity Base G" between concrete block and terminal building, 14 feet off runway and 12 feet from concrete block. (1)



(1)

**REFERENCE SOURCE**

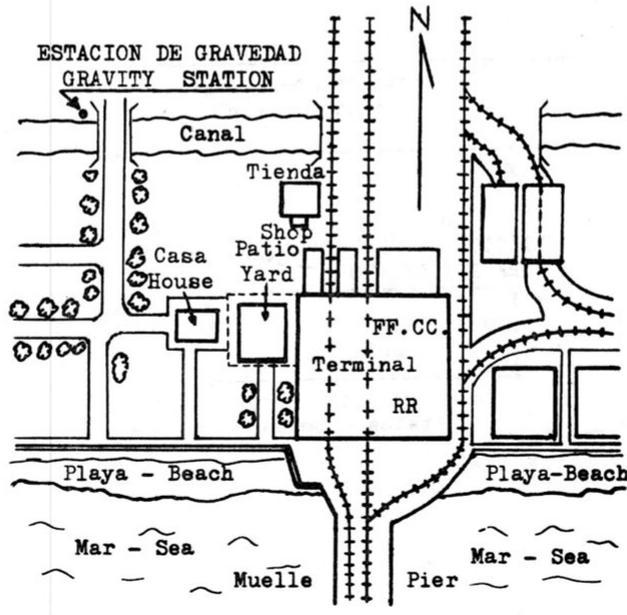
(1) 03058

### GRAVITY BASE STATION

LATITUDE	13° 55.1'N (1)	STATION DESIGNATION	
LONGITUDE	90° 49.2'W (1)	SAN JOSE	
ELEVATION	3.89 METERS (1)	COUNTRY/STATE	
		Guatemala	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 0172-1		$g = 978\ 302.64$ mgals	
		ESTIMATED ACCURACY	DATE
		± 0.3 mgals	MONTH/YEAR
			9/70

**DESCRIPTION AND/OR SKETCH**

At tidal BM A-2 (1949), in a standard disc set in the northwest end of the concrete bridge in the street across Chiquimulilla Canal, the first concrete bridge to the west from the bridge for railroad tracks leaving the terminal. The station disc is stamped "A-2 ELEV". (1)



(1)

**REFERENCE SOURCE**

(1) 03058

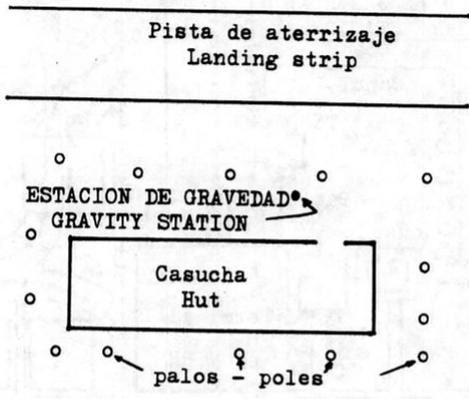
### GRAVITY BASE STATION

LATITUDE	15° 47'N (1)	STATION DESIGNATION	
LONGITUDE	89° 35.0'W (1)	CHAHAL	
ELEVATION	299.9 METERS (1)	COUNTRY/STATE	
		Guatemala	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 0173-1		g = 978 370.52 mgals	
WA 4019			
		ESTIMATED ACCURACY	DATE
		± 0.3 mgals	MONTH/YEAR
			9/70

**DESCRIPTION AND/OR SKETCH**

At the airport to the left of entry to hut from landing strip side.

(1)



(1)

**REFERENCE SOURCE**

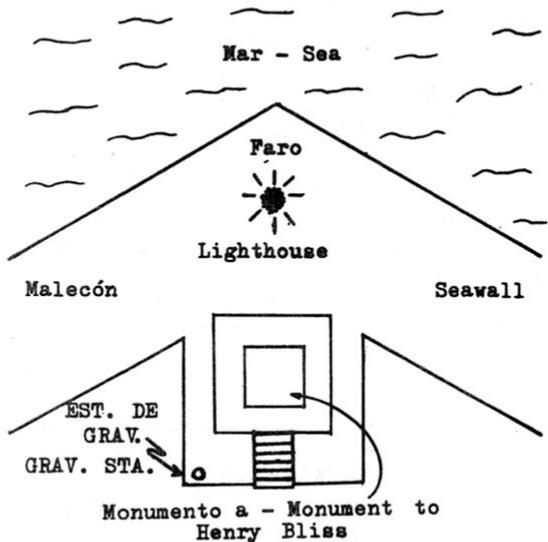
(1) 03058

### GRAVITY BASE STATION

LATITUDE 17° 29.5'N (1)	STATION DESIGNATION BELIZE	
LONGITUDE 88° 10.5'W (1)		
ELEVATION 2.00 METERS (1)	COUNTRY/STATE British Honduras	
REFERENCE CODE NUMBERS ACIC 0204-3		ADOPTED GRAVITY VALUE g = 978 536.85 mgals
		ESTIMATED ACCURACY ± 0.3 mgals
		DATE MONTH/YEAR 8/70

**DESCRIPTION AND/OR SKETCH**

At tidal BM A-2 (1959) embedded in the northeast corner of the wall surrounding the monument to Baron Henry Bliss. The monument is near the seawall and just behind a lighthouse mounted on a cornering of the seawall. The station is stamped by a standard bronze disc marked IAGS "A-2 1959". (1)



(1)

**REFERENCE SOURCE**

(1) 03058

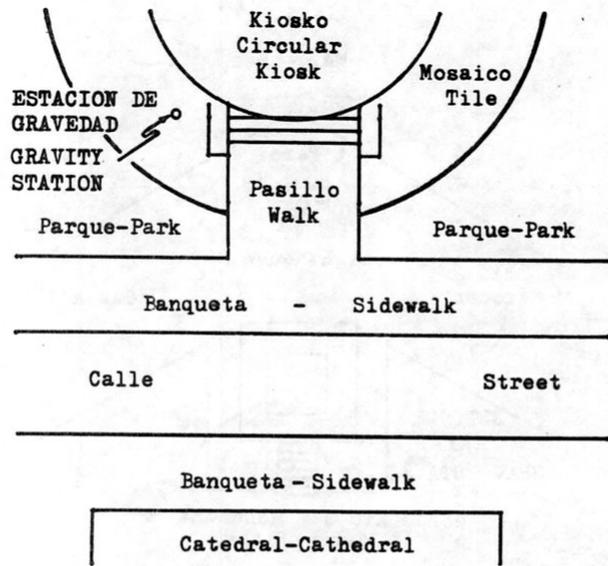
64

### GRAVITY BASE STATION

LATITUDE	09° 56.0'N	(1)	STATION DESIGNATION	
LONGITUDE	84° 04.0'W	(1)	SAN JOSE	
ELEVATION	1160.4	METERS(1)	COUNTRY/STATE	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIG 0215-3			g = 977 936.19 mgals	
			ESTIMATED ACCURACY	DATE
			± 0.3 mgals	MONTH/YEAR
				9/70

DESCRIPTION AND/OR SKETCH

At BM #314 in the central park in San Jose, in front of the entrance of the kiosk in the park facing the cathedral, and on the left hand (facing kiosk from cathedral) side of the stairway into the kiosk against the outside edge of the massive rock bannister on the left of the stairway at ground level. The station is marked with a standard bronze disc marked as "BM 314". (1)



(1)

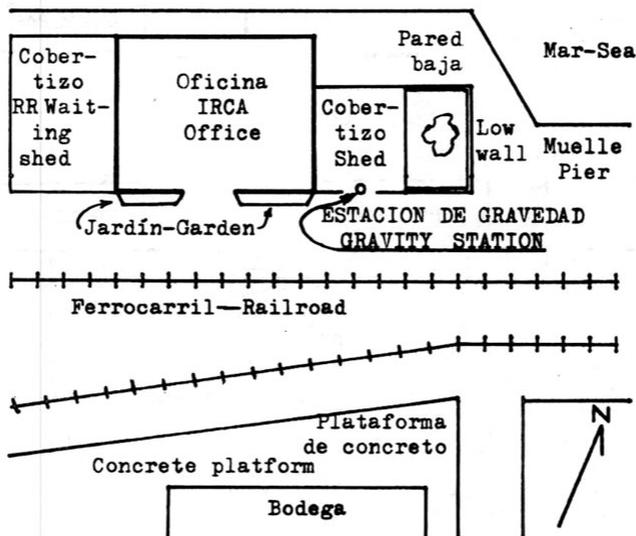
REFERENCE SOURCE  
 (1) 03058

### GRAVITY BASE STATION

LATITUDE	13° 20'N	(1)	STATION DESIGNATION	
LONGITUDE	87° 49.5'W	(1)	LA UNION	
ELEVATION	METERS		COUNTRY/STATE	
			El Salvador	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 0340-1			g = 978 337.53 mgals	
			ESTIMATED ACCURACY	
			DATE	
			MONTH/YEAR	
			± 0.3 mgals	
			9/70	

**DESCRIPTION AND/OR SKETCH**

In the entrance to a small shed against the pierside wall of the IRCA office building in La Union. The entrance to the shed from the railroad tracks is on the opposite side of the IRCA office building from the railroad waiting shed and has a garden surrounded by a low wall on the side toward the pier. The station is marked by a standard IAGS disc stamped "Gravity 1962". (1)



(1)

**REFERENCE SOURCE**

(1) 03058

### GRAVITY BASE STATION

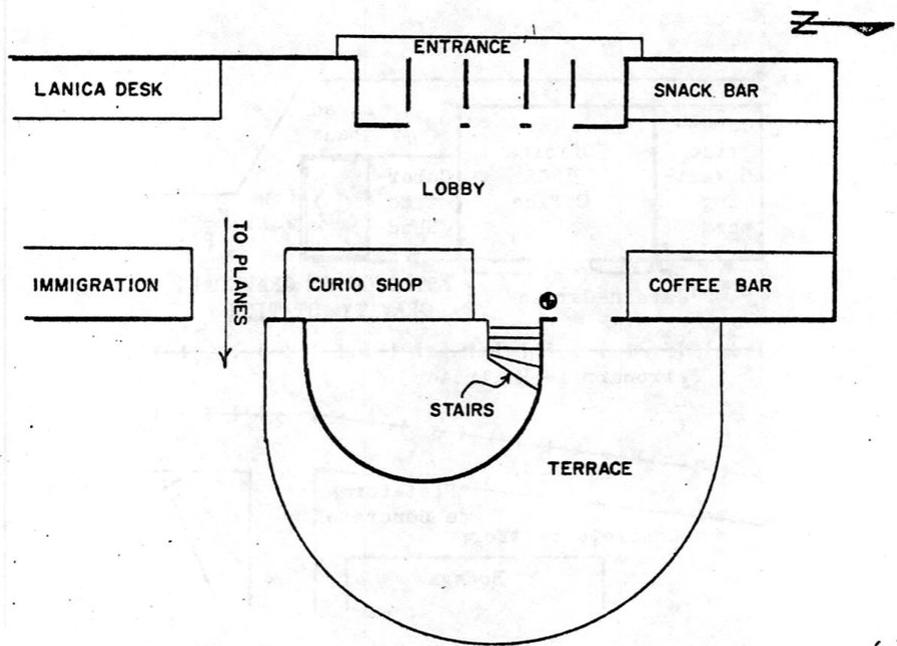
LATITUDE		12° 07.6'N	(1)	STATION DESIGNATION		MANAGUA	
LONGITUDE		86° 10.7'W	(1)	COUNTRY/STATE		Nicaragua	
ELEVATION		58	METERS (1)	ADOPTED GRAVITY VALUE		g = 978 284.79 mgals	
REFERENCE CODE NUMBERS				ESTIMATED ACCURACY			
ACIC 0357-0				± 0.2 mgals			
IGB 04526K							
WA 4013							
				DATE		MONTH/YEAR	
						7/70	

**DESCRIPTION AND/OR SKETCH**

Observations were made at La Mercedes Airport.

The site is located on the tile floor in the waiting room, three feet west of the east stairway to the control tower.

The site is monumented with a disk inscribed "Gravity 1959". (1)



(1)

**REFERENCE SOURCE**

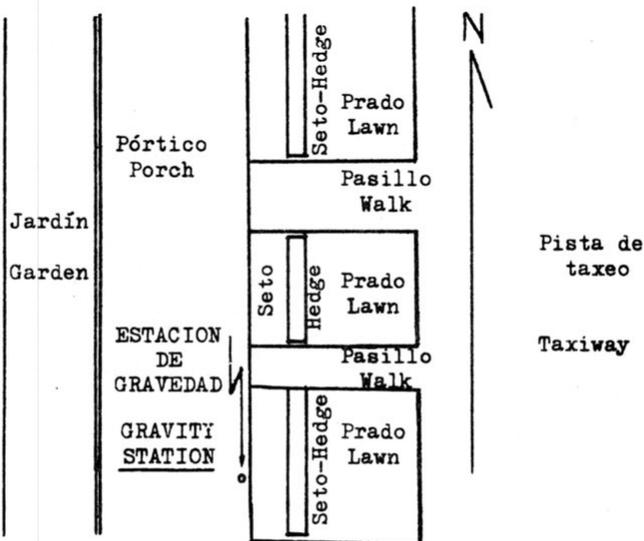
(1) 01451

### GRAVITY BASE STATION

LATITUDE <div style="text-align: right; padding-right: 20px;">14° 03.5'N (1)</div>	STATION DESIGNATION <div style="text-align: center;">TEGUCIGALPA</div>
LONGITUDE <div style="text-align: right; padding-right: 20px;">87° 13.2'W (1)</div>	
ELEVATION <div style="text-align: right; padding-right: 20px;">996.94 METERS (1)</div>	COUNTRY/STATE <div style="text-align: center;">Honduras</div>
REFERENCE CODE NUMBERS ACIC 0358-1	ADOPTED GRAVITY VALUE $g = 978\ 086.13$ mgals
	ESTIMATED ACCURACY $\pm 0.3$ mgals
	DATE MONTH/YEAR 9/70

**DESCRIPTION AND/OR SKETCH**

At Toncontin airport, several kilometers from Tegucigalpa. The station is near the southernmost pillar supporting the porch at the south end of the terminal. Station is also BM #M-10 and is marked by a standard IAGS disc stamped "M-10 1948". (1)



(1)

REFERENCE SOURCE

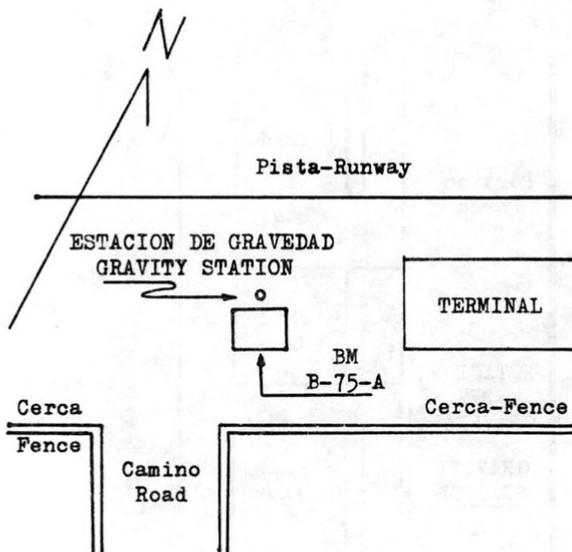
(1) 03058

### GRAVITY BASE STATION

LATITUDE	18° 22.9'N	(1)	STATION DESIGNATION	
LONGITUDE	88° 24.4'W	(1)	COROZAL	
ELEVATION	12.27	METERS (1)	COUNTRY/STATE	
			British Honduras	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 0370-1			g = 978 583.43 mgals	
			ESTIMATED ACCURACY	DATE
			± 0.3 mgals	MONTH/YEAR
				9/70

**DESCRIPTION AND/OR SKETCH**

At BM B-75A at the airport of Corozal, which is a 15 centimeter square monument approximately 10 meters west of the terminal building and slightly behind it some 20 meters south of the taxiway. The station is marked with a standard IAGS bronze disc, stamped "B-75A 1959". (1)



(1)

**REFERENCE SOURCE**

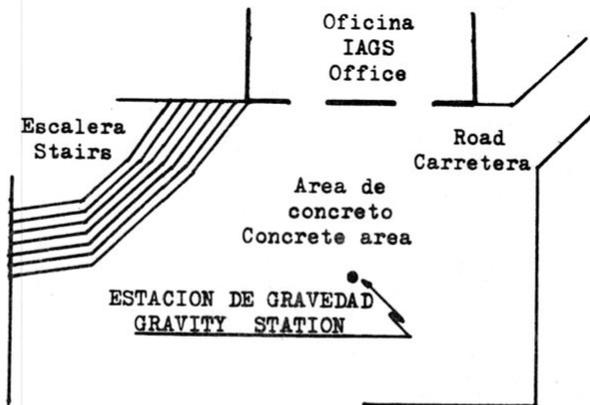
(1) 03058

### GRAVITY BASE STATION

LATITUDE <div style="text-align: right; padding-right: 20px;">13° 43'N (1)</div>	STATION DESIGNATION <div style="text-align: center;">SAN SALVADOR</div>
LONGITUDE <div style="text-align: right; padding-right: 20px;">89° 10.3'W (1)</div>	
ELEVATION <div style="text-align: right; padding-right: 20px;">642.64 METERS (1)</div>	COUNTRY/STATE <div style="text-align: center;">El Salvador</div>
REFERENCE CODE NUMBERS ACIC 0371-4	ADOPTED GRAVITY VALUE $g = 978\ 194.48$ mgals
	ESTIMATED ACCURACY $\pm 0.3$ mgals
	DATE MONTH/YEAR 9/70

**DESCRIPTION AND/OR SKETCH**

The station is located in the center of a parking lot of the IAGS and the Direccion General de Cartografia office located at Calle Juan Bertis No 65. The station is marked by a standard IAGS bronze disc that is not stamped. (1)



(1)

**REFERENCE SOURCE**

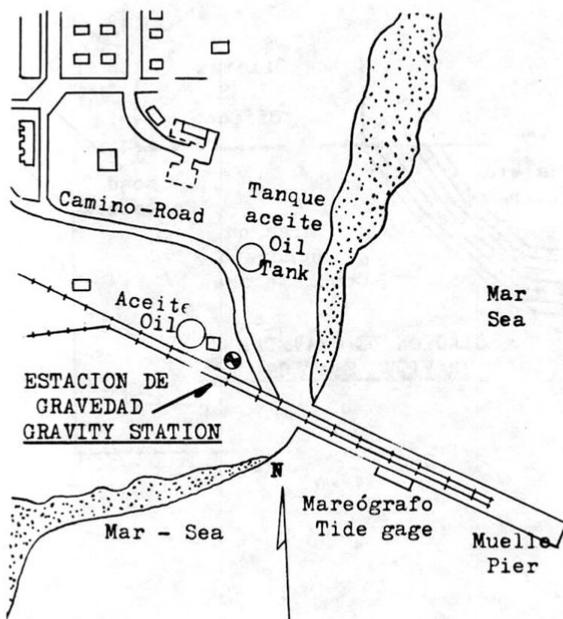
(1) 03058

### GRAVITY BASE STATION

LATITUDE		STATION DESIGNATION	
14° 01.2'N (1)		PUERTO CABEZAS	
LONGITUDE	83° 22.9'W (1)		
ELEVATION		COUNTRY/STATE	
4.64 METERS (1)		Nicaragua	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 0372-2		g = 978 371.82 mgals	
		ESTIMATED ACCURACY	
		± 0.3 mgals	
		DATE	
		MONTH/YEAR	
		8/70	

**DESCRIPTION AND/OR SKETCH**

At Tidal Bench Mark #1 located in the top of the southeast corner of a 0.60 meter square by 0.3 meter high concrete base of an old oil truck filling station, 23 meters north of the shore end of the pier, 14 meters north of the near railroad track, and 15 meters south of near concrete post of the oil storage tank. The station is marked with standard bronze disc stamped "1949". (1)



(1)

**REFERENCE SOURCE**

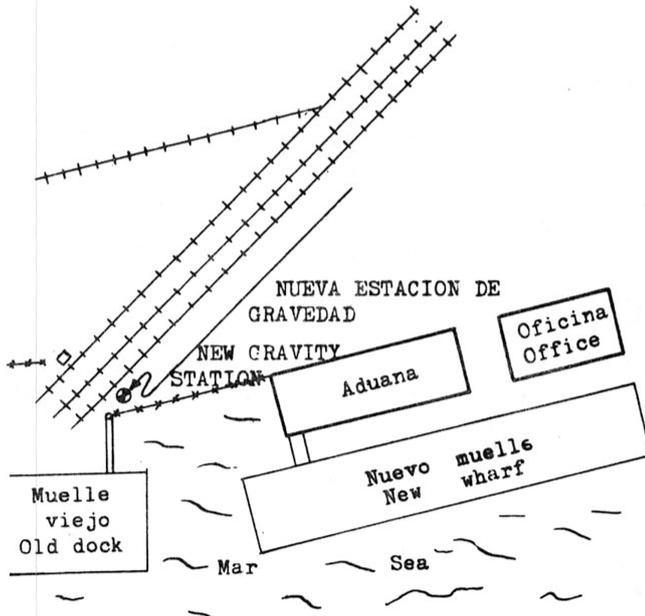
(1) 03058

### GRAVITY BASE STATION

LATITUDE	15° 50.1'N	(1)	STATION DESIGNATION  PUERTO CORTES	
LONGITUDE	87° 57.2'W	(1)		
ELEVATION	.82	METERS (1)	COUNTRY/STATE Honduras	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 0461-1			g = 978 444.19 mgals	
			ESTIMATED ACCURACY	DATE
			± 0.3 mgals	MONTH/YEAR 8/70

**DESCRIPTION AND/OR SKETCH**

Tidal BM #1 set in top center of concrete curb at east end of old Muelle Nactional. BM is 4 meters south of center of railroad gate leading to wharf, 46 centimeters north of the south gate post, and 30 centimeters west of the east edge of wharf. Station is marked by a standard IAGS disc stamped "BM 1 48". (1)



(1)

**REFERENCE SOURCE**

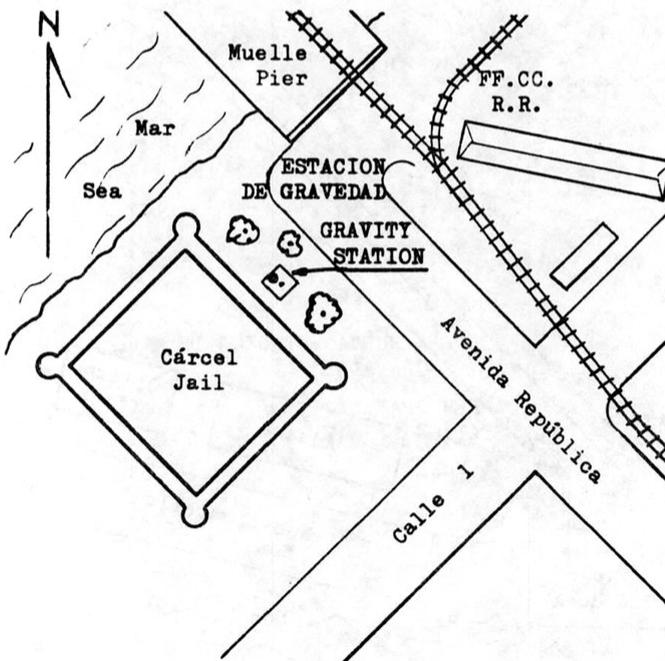
(1) 03058

### GRAVITY BASE STATION

LATITUDE	15° 45.0'N (1)	STATION DESIGNATION	
LONGITUDE	86° 49.0'W (1)	LA CEIBA	
ELEVATION	3.05 METERS (1)	COUNTRY/STATE	
		Honduras	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 1047-1		g = 978 455.58 mgals	
		ESTIMATED ACCURACY	DATE
		± 0.3 mgals	MONTH/YEAR
			9/70

**DESCRIPTION AND/OR SKETCH**

In the base of the flagpole in front of the jail located between the beach and the intersection of Calle 1 and Avenida Republica. The Avenida Republica leads to the main pier at La Ceiba and the station, which is also Tidal Bench Mark 1. The station is marked with a standard IAGS, 9 centimeter bronze disc stamped "M-1 LA CEIBA 1957". (1)



(1)

**REFERENCE SOURCE**

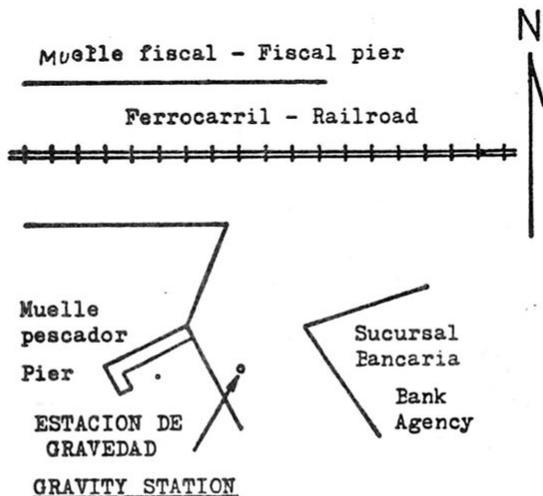
(1) 03058

### GRAVITY BASE STATION

LATITUDE	14° 44.0'N	(1)	STATION DESIGNATION PUERTO BARRIOS	
LONGITUDE	88° 36.3'W	(1)		
ELEVATION	0.36	METERS(1)	COUNTRY/STATE Guatemala	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 1048-2			g = 978 416.89 mgals	
			ESTIMATED ACCURACY	DATE
			± 0.3 mgals	MONTH/YEAR Sept 1970

**DESCRIPTION AND/OR SKETCH**

On the edge of the seawall approximately 34 meters south of the fisherman's pier and opposite the bank agency building. It is due south of the railroad tracks at the shore end of the public dock. The station is also Tidal Benchmark #1 and is a standard 9 centimeter IAGS disc stamped "Tide B.M.-P.B. 1-1952". (1)



(1)

**REFERENCE SOURCE**

(1) 03058

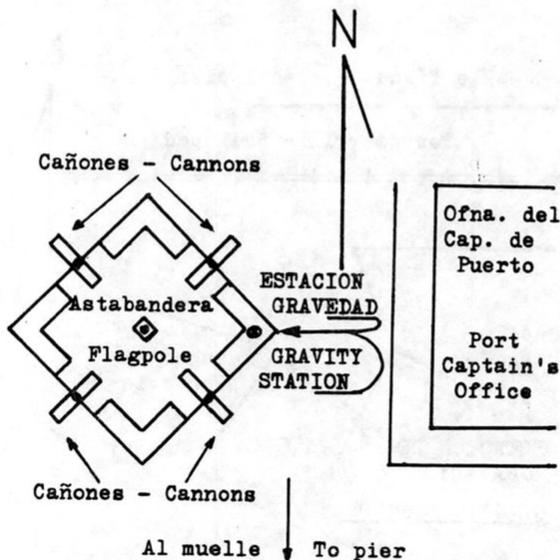
### GRAVITY BASE STATION

LATITUDE	09° 58.4'N (1)	STATION DESIGNATION	
LONGITUDE	84° 49.9'W (1)	PUNTARENAS	
ELEVATION	3.81 METERS (1)	COUNTRY/STATE	
		Costa Rica	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 4551-1		g = 978 230.87 mgals	
		ESTIMATED ACCURACY	DATE
		± 0.3 mgals	MONTH/YEAR
			8/70

**DESCRIPTION AND/OR SKETCH**

At Tidal BM #1 located on top of the first step of the east corner (toward Post Captain's Office), on the large concrete monument containing a flagpole and four ancient cannons. The station is marked by a standard IAGS bronze disc, stamped "C. F. 1 1941".

(1)



(1)

**REFERENCE SOURCE**

(1) 03058

### GRAVITY BASE STATION

LATITUDE	10° 08.5'N	(1)	STATION DESIGNATION  NICOYA	
LONGITUDE	85° 26.7'W	(1)		
ELEVATION	121.92	METERS (1)		
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 4552-1			$g =$ 978 271.66 mgals	
WA 4045				
			ESTIMATED ACCURACY	DATE
			± 0.3 mgals	MONTH/YEAR 8/70

**DESCRIPTION AND/OR SKETCH**

At the airport, at field level in front of terminal. (1)

**REFERENCE SOURCE**

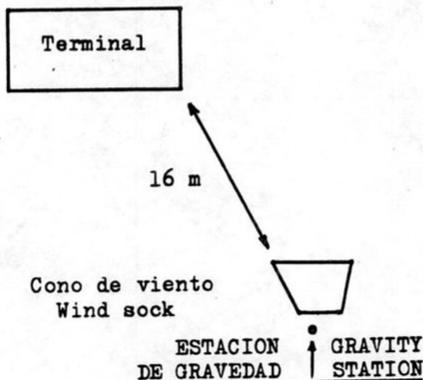
(1) 03058

### GRAVITY BASE STATION

LATITUDE		STATION DESIGNATION	
17° 44.5'N	(1)	DOS LAGUNAS	
LONGITUDE		COUNTRY/STATE	
89° 38.08'W	(1)	Guatemala	
ELEVATION		ADOPTED GRAVITY VALUE	
256.0	METERS (1)	g = 978 480.77 mgals	
REFERENCE CODE NUMBERS		ESTIMATED ACCURACY	
ACIC 4553-1		± 0.3 mgals	
WA 4022		DATE	
		MONTH/YEAR	
		8/70	

**DESCRIPTION AND/OR SKETCH**

At the airport, at the base of the wind sock at 16 meters from the corner of the terminal building. (1)



(1)

**REFERENCE SOURCE**

(1) 03058

### GRAVITY BASE STATION

LATITUDE 17° 03.4'N (1)	STATION DESIGNATION FALLABON
LONGITUDE 89° 08.3'W (1)	
ELEVATION 182.88 METERS (1)	COUNTRY/STATE Guatemala
REFERENCE CODE NUMBERS	ADOPTED GRAVITY VALUE
ACIC 4554-1	$g =$ 978 446.69 mgals
WA 4025	
	ESTIMATED ACCURACY
	± 0.3 mgals
	DATE
	MONTH/YEAR
	8/70

**DESCRIPTION AND/OR SKETCH**

Robert Ray Company gravity base at the airport. (1)

**REFERENCE SOURCE**

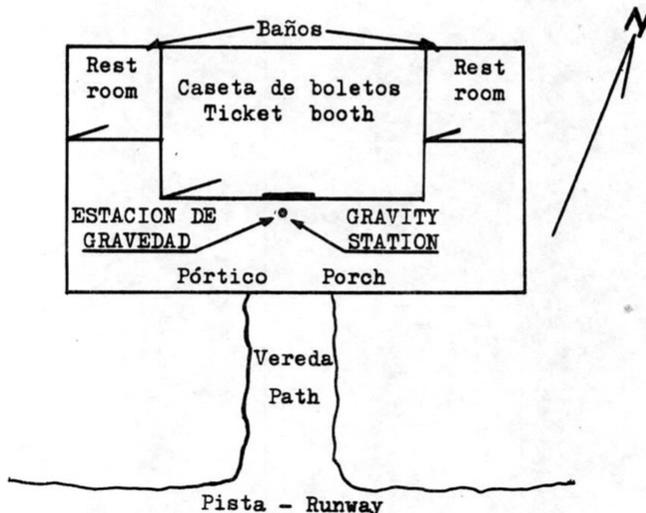
(1) 03058

### GRAVITY BASE STATION

LATITUDE	14° 54.3'N (1)	STATION DESIGNATION	
LONGITUDE	92° 04.8'W (1)	MALACATAN	
ELEVATION	328.8 METERS (1)	COUNTRY/STATE	
		Guatemala	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 4555-1		g = 978 302.54 mgals	
		ESTIMATED ACCURACY	DATE
		± 0.5 mgals	MONTH/YEAR
			8/70

**DESCRIPTION AND/OR SKETCH**

In the terminal building adjacent to and at the center front of the ticket booth in the terminal. The station is marked with an IAGS disc stamped "Gravity 1962". (1)



(1)

**REFERENCE SOURCE**

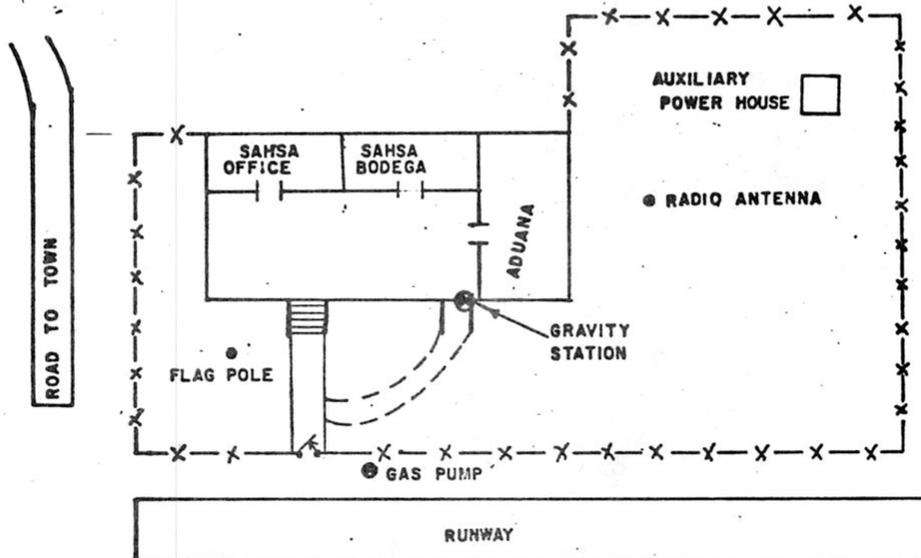
(1) 03058

### GRAVITY BASE STATION

LATITUDE	14° 25.5'N	(1)	STATION DESIGNATION  NUEVA OCOTOPEQUE	
LONGITUDE	89° 13.5'W	(1)		
ELEVATION	762.0	METERS (1)		
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 4556-2			g = 978 118.99 mgals	
			ESTIMATED ACCURACY	DATE
			± 0.3 mgals	MONTH/YEAR April 1972

**DESCRIPTION AND/OR SKETCH**

The station is located at the new airport of Nueva Ocotopeque, at the terminal end of ramp leading to the customs office. The station is marked by a 5/8 inch diameter "copperweld" rod driven flush with concrete floor. (1)



(1)

REFERENCE SOURCE

(1) 03316

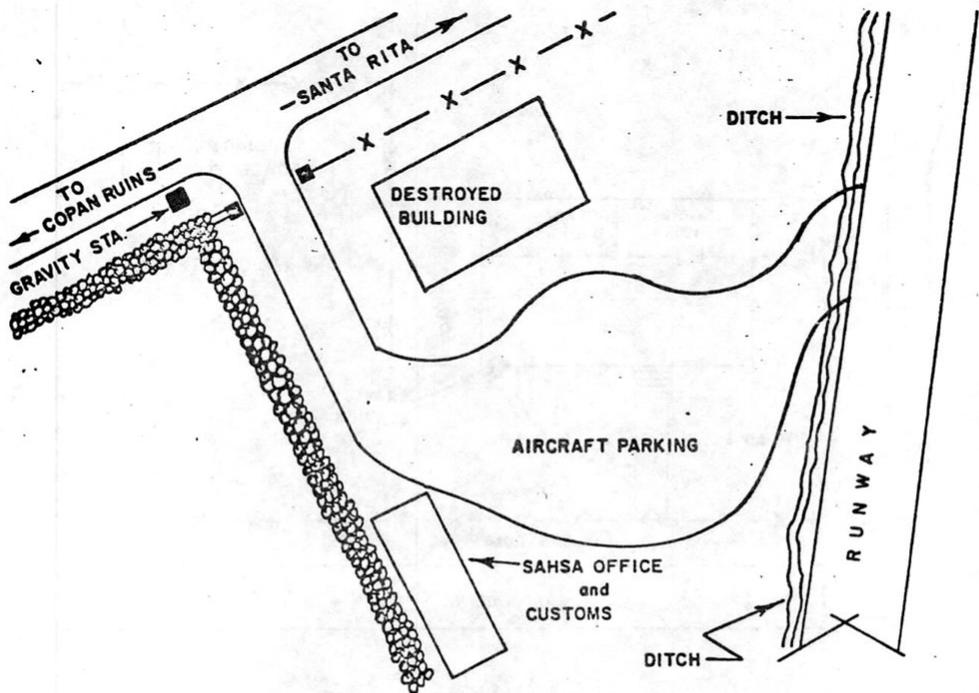
80

### GRAVITY BASE STATION

LATITUDE		STATION DESIGNATION	
14° 51.6'N (1)		RUINAS DE COPAN	
LONGITUDE			
89° 09.0'W (1)			
ELEVATION		COUNTRY/STATE	
594.1 METERS (1)		Honduras	
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 4557-2		g = 978 213.20 mgals	
		ESTIMATED ACCURACY	DATE
		± 0.3 mgals	MONTH/YEAR
			April 1972

**DESCRIPTION AND/OR SKETCH**

The station is just outside of the entrance of the airport at Copan Ruins. It is 295° at 1.4 meters from north corner of stone fence and 194° at 2.8 meters from center of entrance to airport. The 9 cm IAGS disk is stamped: T-105 Honduras 1957. (1)



**REFERENCE SOURCE**

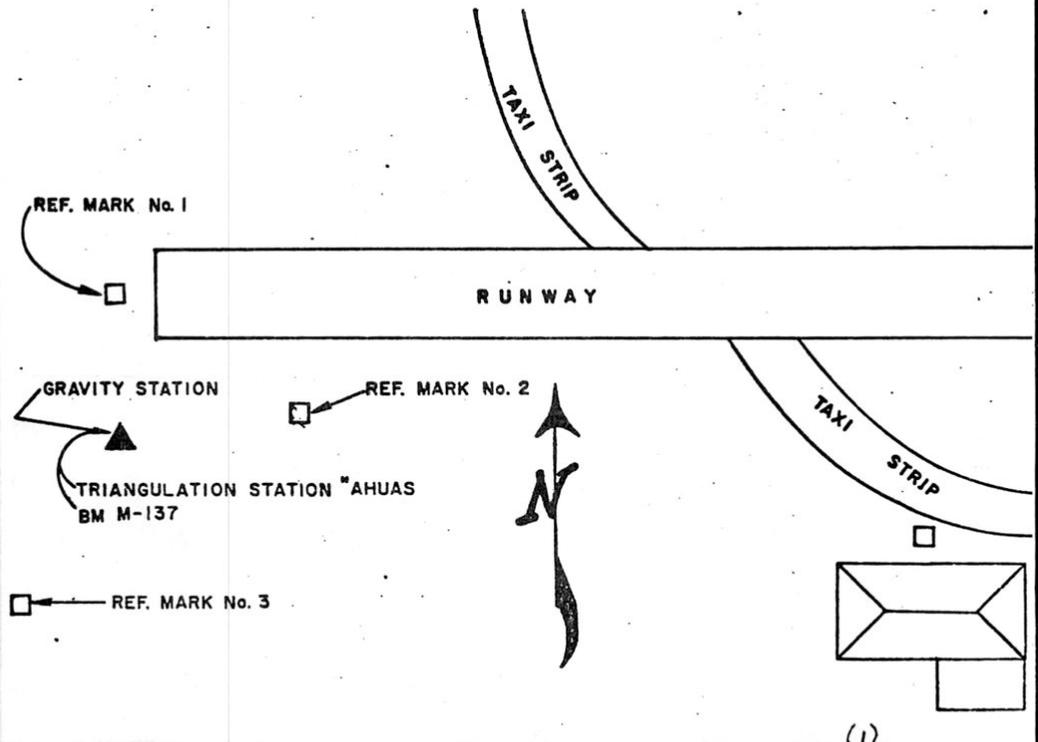
(1) 03316

### GRAVITY BASE STATION

LATITUDE 15° 28.0'N (1)	STATION DESIGNATION AHUAS	
LONGITUDE 84° 30.0'W (1)		
ELEVATION 29.7 METERS (1)	COUNTRY/STATE Honduras	
REFERENCE CODE NUMBERS ACIC 4885-1		ADOPTED GRAVITY VALUE g = 978 450.50 mgals
		ESTIMATED ACCURACY ± 0.3 mgals
		DATE MONTH/YEAR April 1972

**DESCRIPTION AND/OR SKETCH**

The station is located at the Ahuas Airport, at the west end of the runway; the mark is a 9 cm IGN disk set in a concrete monument, disk is stamped: Ahuas BM M-137, 1966. (1)



**REFERENCE SOURCE**

(1) 03316

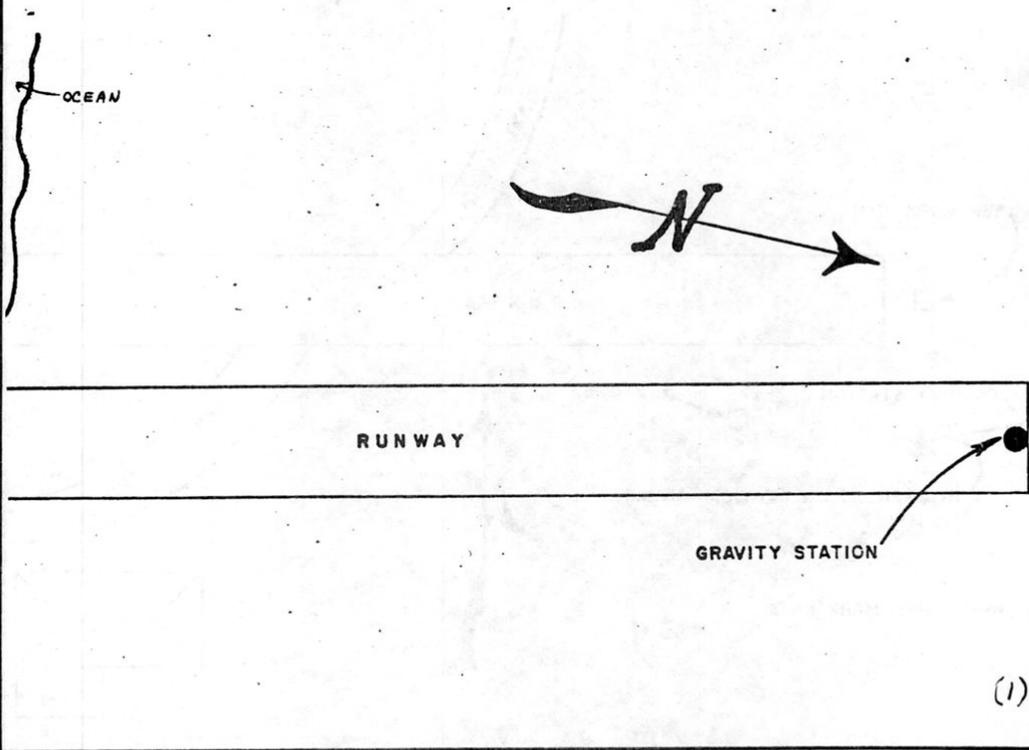
82

### GRAVITY BASE STATION

LATITUDE	13° 17.0'N	(1)	STATION DESIGNATION	
LONGITUDE	87° 38.0'W	(1)	AMAPALA	
ELEVATION	6.0	METERS (1)	COUNTRY/STATE	
			Honduras	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 4886-1			g = 978 342.08 mgals	
			ESTIMATED ACCURACY	DATE
			± 0.3 mgals	MONTH/YEAR
				April 1972

**DESCRIPTION AND/OR SKETCH**

The station is located on the island of Isla del Tigre, at the Amapala Airport. The mark is a 5/8 inch "copperweld" rod flush with the ground, in the center-line of runway at the northwest end (end away from ocean). (1)



(1)

**REFERENCE SOURCE**

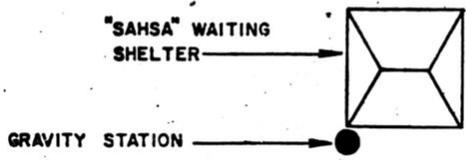
(1) 03316

### GRAVITY BASE STATION

LATITUDE 15° 46.5'N (1)	STATION DESIGNATION BRUS LAGUNA	
LONGITUDE 84° 32.5'W (1)		
ELEVATION 4.0 METERS (1)	COUNTRY/STATE Honduras	
REFERENCE CODE NUMBERS ACIC 4887-1		ADOPTED GRAVITY VALUE g = 978 461.28 mgals
		ESTIMATED ACCURACY ± 0.3 mgals
		DATE MONTH/YEAR April 1972

**DESCRIPTION AND/OR SKETCH**

The station is located at the Brus Laguna Airport, at the northwest corner of the SAHSA waiting shelter at south end of runway. The station is marked with a 5/8 inch "copperweld" rod driven flush with ground. (1)



(1)

**REFERENCE SOURCE**

(1) 03316

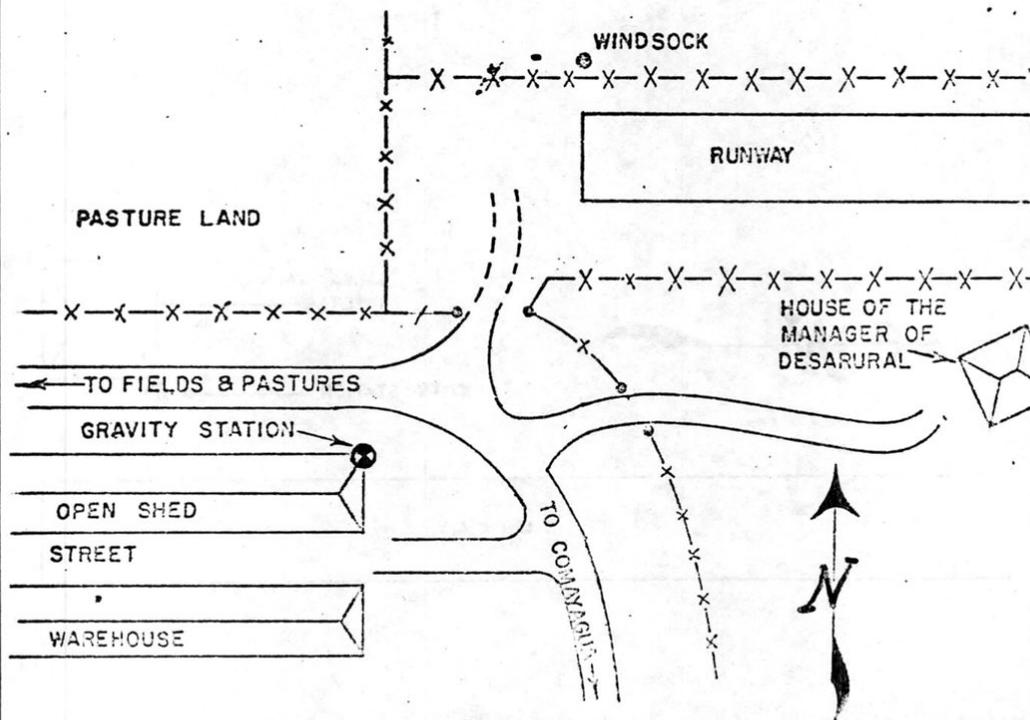
84

### GRAVITY BASE STATION

LATITUDE		14° 27.6'N	(1)	STATION DESIGNATION	
LONGITUDE		87° 39.8'W	(1)	COMAYAGUA	
ELEVATION		579.0	METERS (1)	COUNTRY/STATE	
				Honduras	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE		
ACIC 4888-1			$g = 978\ 171.75$ mgals		
			ESTIMATED ACCURACY		DATE
			+ 0.3 mgals		MONTH/YEAR
					April 1972

**DESCRIPTION AND/OR SKETCH**

The station is located at the "La Stica" Airfield, grouted into the concrete floor, at the northeast corner of an open sided shed belonging to "Desarural". The station is marked by a 6 cm. IAGS disk stamped: Gravity 1969. (1)



**REFERENCE SOURCE**

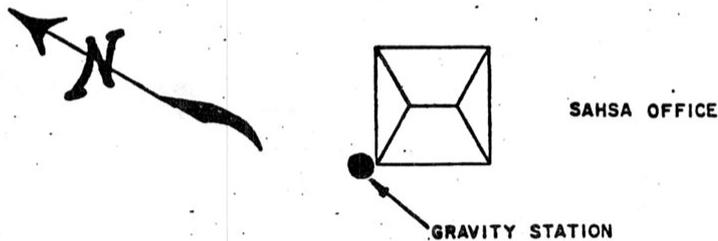
(1) 03316

### GRAVITY BASE STATION

LATITUDE	14° 14.0'N	(1)	STATION DESIGNATION	
LONGITUDE	88° 28.5'W	(1)	ERANDIQUE	
ELEVATION	250.0	METERS (1)	COUNTRY/STATE	
			Honduras	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 4889-1			$g = 978\ 029.55$ mgals	
			ESTIMATED ACCURACY	DATE
			$\pm 0.3$ mgals	MONTH/YEAR
				April 1972

**DESCRIPTION AND/OR SKETCH**

The station is located at the Erandique Airport, at the west corner of the SAHSA Office. The station is marked with a 5/8 inch "copperweld" rod driven flush with ground. (1)



**REFERENCE SOURCE**

(1) 03316

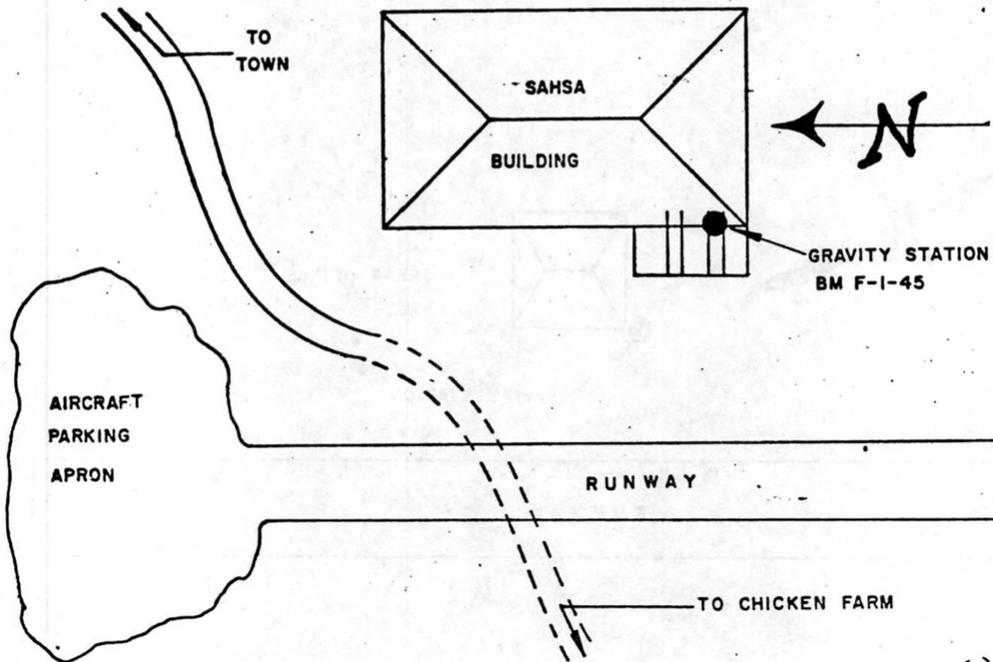
(1)

### GRAVITY BASE STATION

LATITUDE		14° 45.0'N (1)	STATION DESIGNATION		JUTICALPA	
LONGITUDE		86° 12.0'W (1)	COUNTRY/STATE			Honduras
ELEVATION		403.2 METERS (1)	ADOPTED GRAVITY VALUE			g = 978 268.54 mgals
REFERENCE CODE NUMBERS		ACIC 4890-1	ESTIMATED ACCURACY			± 0.3 mgals
			DATE			MONTH/YEAR April 1972

**DESCRIPTION AND/OR SKETCH**

The station is located at the Juticalpa Airport, grouted into right-hand (looking from airfield) concrete driveway of SAHSA Office Building. The disk is stamped: F-1-45. (1)



**REFERENCE SOURCE**

(1) 03316

### GRAVITY BASE STATION

LATITUDE 15° 02.8'N (1)	STATION DESIGNATION LA UNION	
LONGITUDE 86° 44.0'W (1)		
ELEVATION 784.6 METERS (1)	COUNTRY/STATE Honduras	
REFERENCE CODE NUMBERS ACIC 4891-1		ADOPTED GRAVITY VALUE g = 978 194.70 mgals
		ESTIMATED ACCURACY ± 0.3 mgals
		DATE MONTH/YEAR April 1972

**DESCRIPTION AND/OR SKETCH**

The station is located at the north end of the La Union Airport, in the northeast corner, near the southwest corner of the SAHSA Office. The station is marked by a 1/2 inch waterpipe drove flush with the ground and has a 6 cm IAGS disk driven into end of pipe. Disk stamped: Gravity 1969. (1)



GRAVITY STATION



(1)

**REFERENCE SOURCE**

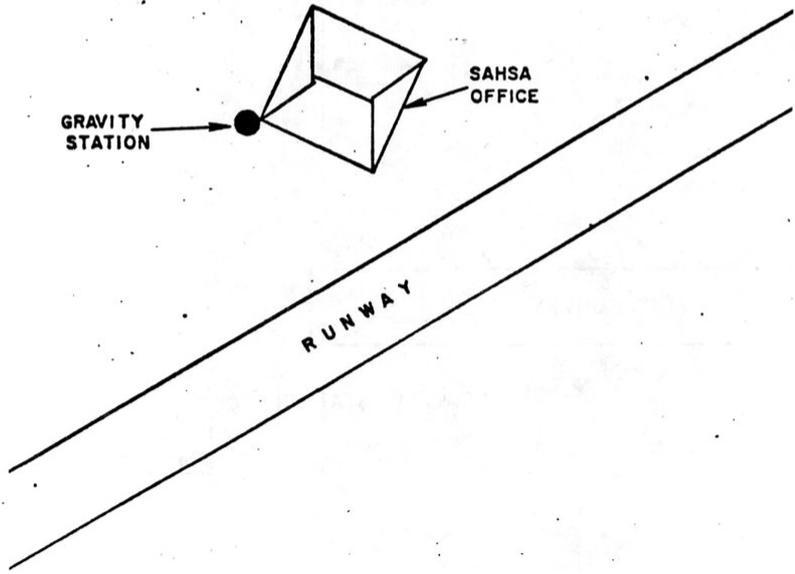
(1) 03316

88

### GRAVITY BASE STATION

LATITUDE		STATION DESIGNATION	
15° 10.0'N (1)		PUERTO LEMPIRA	
LONGITUDE			
83° 48.5'W (1)		COUNTRY/STATE	
ELEVATION		Honduras	
3.0 METERS (1)		ADOPTED GRAVITY VALUE	
REFERENCE CODE NUMBERS		g = 978 416.39 mgals	
ACIC 4892-1			
		ESTIMATED ACCURACY	
		DATE	
		MONTH/YEAR	
		± 0.3 mgals	
		April 1972	

**DESCRIPTION AND/OR SKETCH**  
 The station is located at the Puerto Lempira Airport, at the south-west corner of the SAHSA Office. The station is marked with a 5/8 inch "copperweld" rod driven flush with ground. (1)



(1)

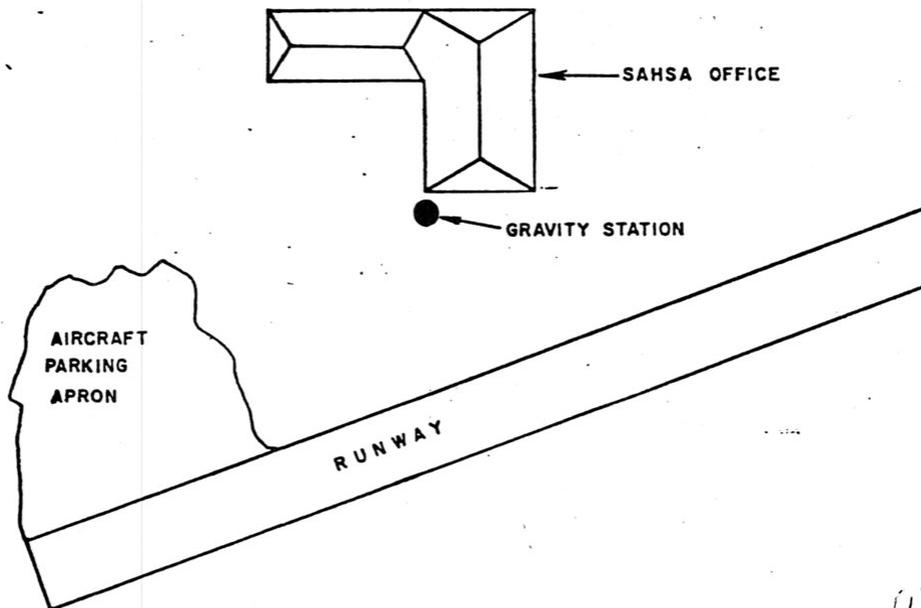
**REFERENCE SOURCE**  
 (1) 03316

### GRAVITY BASE STATION

LATITUDE	15° 13.0'N	(1)	STATION DESIGNATION	
LONGITUDE	85° 45.5'W	(1)	SAN ESTEBAN	
ELEVATION	671.0	METERS (1)	COUNTRY/STATE	
			Honduras	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 4893-1			g = 978 265.66 mgals	
			ESTIMATED ACCURACY	DATE
			± 0.3 mgals	MONTH/YEAR
				April 1972

**DESCRIPTION AND/OR SKETCH**

The station is located at the San Esteban Airport, in front of (south) the southwest corner of SAHSA Office. The station is marked by a 5/8 inch diameter "copperweld" rod driven in the ground and protrudes one inch above the surface. (1)



**REFERENCE SOURCE**

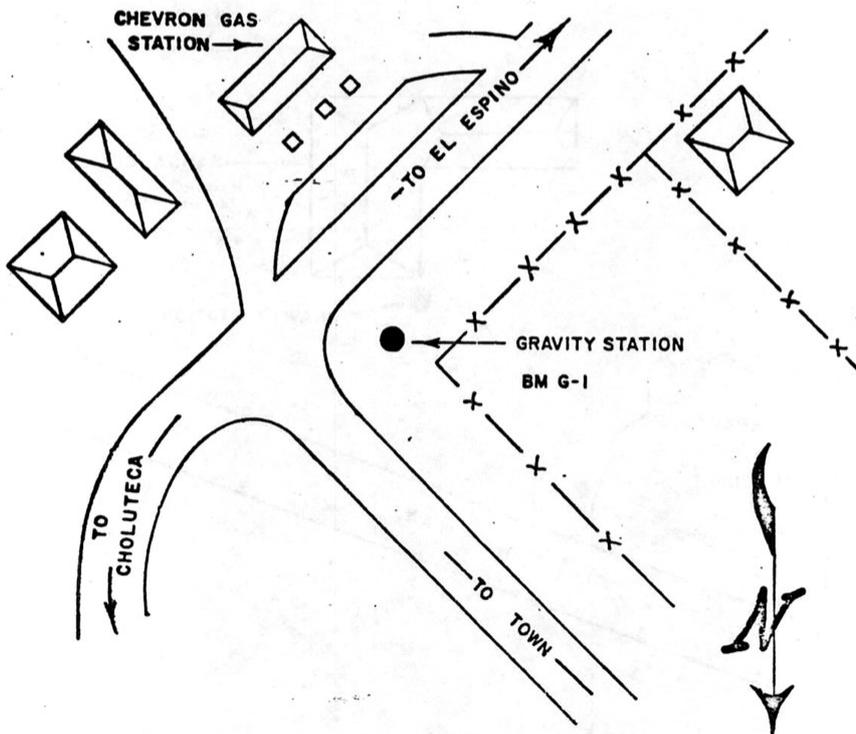
(1) 03316

### GRAVITY BASE STATION

LATITUDE	13° 26.0'N (1)	STATION DESIGNATION	
LONGITUDE	86° 49.5'W (1)	SAN MARCOS DE COLON	
ELEVATION	982.0 METERS (1)	COUNTRY/STATE	Honduras
REFERENCE CODE NUMBERS		ADOPTED GRAVITY VALUE	
ACIC 4894-1		g =	978 085.00 mgals
		ESTIMATED ACCURACY	DATE
		± 0.3 mgals	MONTH/YEAR
			April 1972

**DESCRIPTION AND/OR SKETCH**

The station is to the left (southwest) of the main entrance to the city of San Marcos de Colon and is N20°E of the center of three gas pumps at the "Chevron" gas station. The mark is a 6 cm IAGS disk in a concrete monument. Disk is stamped: G-1 1947. (1)



**REFERENCE SOURCE**

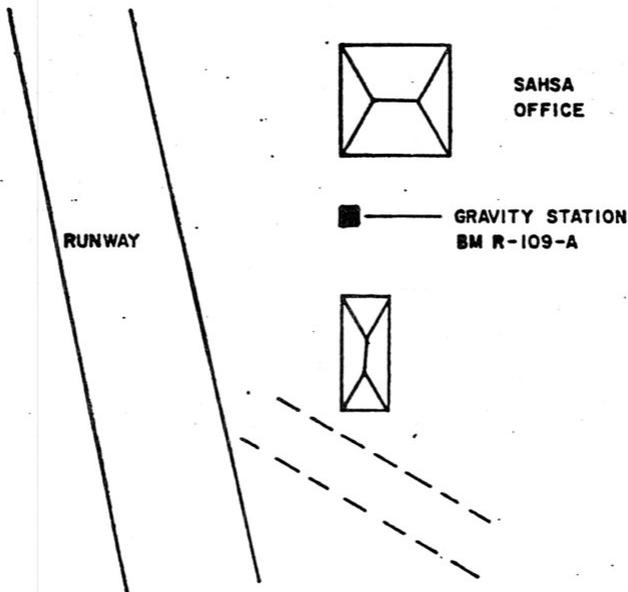
(1) 03316

### GRAVITY BASE STATION

LATITUDE	14° 57.0'N	(1)	STATION DESIGNATION	
LONGITUDE	88° 14.0'W	(1)	SANTA BARBARA	
ELEVATION	279.0	METERS (1)	COUNTRY/STATE	
			Honduras	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 4895-1			$g =$	978 276.91 mgals
			ESTIMATED ACCURACY	DATE
			± 0.3 mgals	MONTH/YEAR
				April 1972

**DESCRIPTION AND/OR SKETCH**

The station is located at the Santa Barbara Airport, to the right (south, looking from runway) of the SAHSA Office, 3.6 meters south of the southwest corner. The mark is visible and 4 cm above the ground, 9 cm IAGS disk is stamped: R-109-A Honduras 1957. (1)



(1)

**REFERENCE SOURCE**

(1) 03316

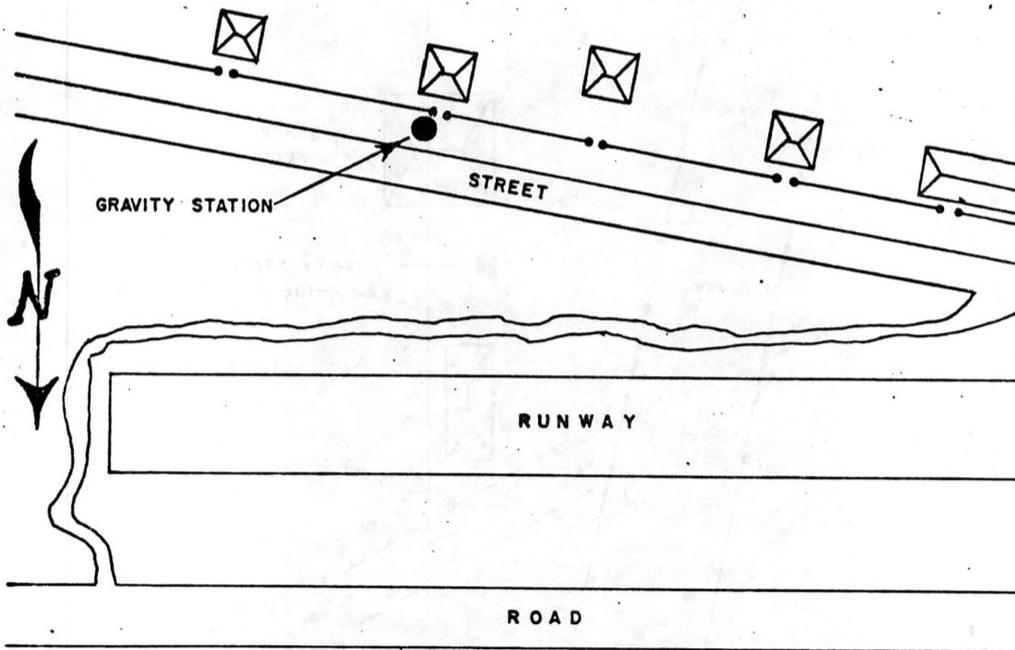
92

### GRAVITY BASE STATION

LATITUDE		14° 03.0'N (1)		STATION DESIGNATION	
LONGITUDE		86° 06.0'W (1)		SANTA MARIA	
ELEVATION		443.6 METERS (1)		COUNTRY/STATE	
REFERENCE CODE NUMBERS		ACIC 4896-1		Honduras	
				ADOPTED GRAVITY VALUE	
				g = 978 225.14 mgals	
				ESTIMATED ACCURACY	
				DATE	
		± 0.3 mgals		MONTH/YEAR	
				April 1972	

**DESCRIPTION AND/OR SKETCH**

The station is located at the Santa Maria Airport. The mark is 3/4 inch pipe flush with ground on north side (runway side) of gate post at entrance to house on south side of airfield. (1)



(1)

**REFERENCE SOURCE**

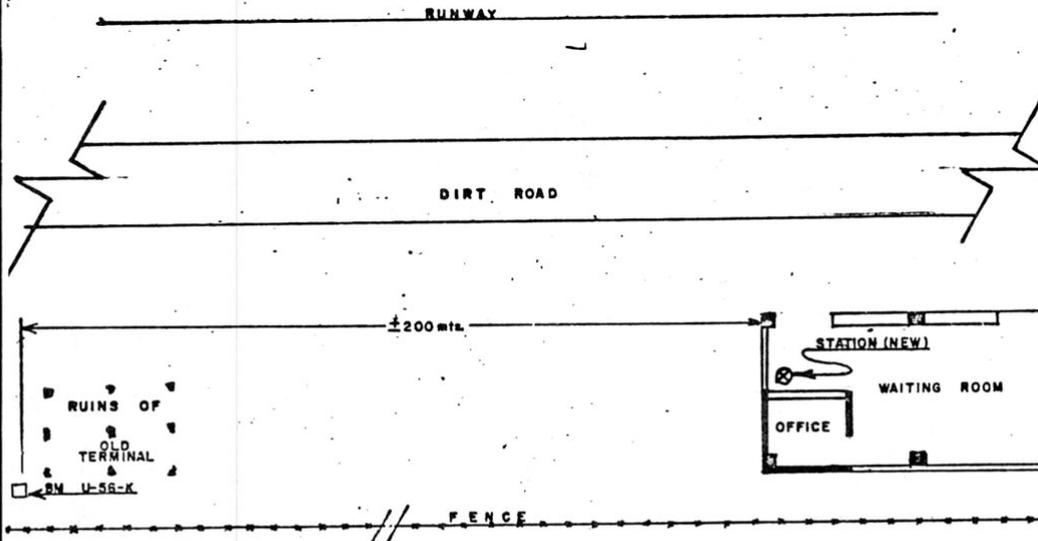
(1) 03316

### GRAVITY BASE STATION

LATITUDE	15° 58.0'N	(1)	STATION DESIGNATION  TRUJILLO	
LONGITUDE	85° 56.0'W	(1)		
ELEVATION	3.0	METERS (1)		
REFERENCE CODE NUMBERS			COUNTRY/STATE	
ACIC 4897-1			Honduras	
			ADOPTED GRAVITY VALUE	
			g = 978 476.38 mgals	
			ESTIMATED ACCURACY	DATE
			± 0.3 mgals	MONTH/YEAR April 1972

**DESCRIPTION AND/OR SKETCH**

The station is located at the airport, in the terminal building waiting room, in a corner formed by a side wall of the terminal building and the front wall of the office. The station is marked by an I.A.G.S. disc stamped "Gravity 1962". (1)



**REFERENCE SOURCE**

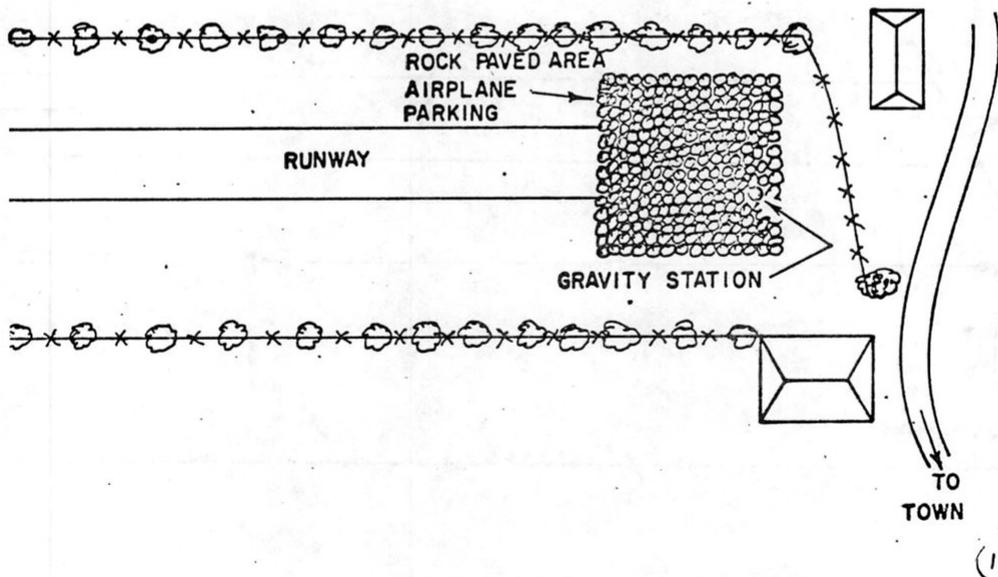
(1) 03316

### GRAVITY BASE STATION

LATITUDE	14° 56.1'N	(1)	STATION DESIGNATION	
LONGITUDE	87° 23.6'W	(1)	VICTORIA	
ELEVATION	427.0	METERS (1)	COUNTRY/STATE	
			Honduras	
REFERENCE CODE NUMBERS			ADOPTED GRAVITY VALUE	
ACIC 4898-1			$g =$	978 265.21 mgals
			ESTIMATED ACCURACY	DATE
			$\pm$ 0.3 mgals	MONTH/YEAR
			April 1972	

**DESCRIPTION AND/OR SKETCH**

The station is located at the east end of the Victoria Airport runway, in the southeast corner of the rock paved aircraft parking area. The station is marked by a 1/2 inch rod driven flush with ground. (1)



**REFERENCE SOURCE**

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APPENDIX A.8

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