

LEGEND
On this map a line is considered as being a minimum of 2.5 meters in width
En este mapa se considera que una línea tenga un ancho mínimo de 2.5 metros

ROADS	CAMINOS
All weather Hard surface, two or more lanes wide	Transitable todo el tiempo Asfalto sellado, dos o más vías
Loose or light surface, two or more lanes wide	Revestimiento suelto o ligero, dos o más vías
Hard surface, one lane wide loose or light surface, one lane wide	Afirmado sellado, una vía Revestimiento suelto o ligero, una vía
Fair or dry weather, loose surface	Transitable en tiempo bueno o seco, revestimiento suelto
Cart track	Revestimiento suelto
Footpath, trail	Sendero o vereda
Bridges for vehicles	Puente para vehículos
Route markers	Señales de ruta
National or principal; Secondary	Nacional o principal; Secundaria
RAILROADS	FERRICARRILES
Normal gauge, single track	Vía normal (sencilla)
Narrow gauge, single track	Vía estrecha (sencilla)
Built-up area	Área urbanizada o construida
BOUNDARIES	LÍMITES
International	Internacional
Departmental	Departamental
Municipal	Municipal
Power transmission line: Fence	Línea transmisora de energía: Cerca
Building: Structure, Church, School, Mine	Casa, Chozo, Iglesia, Escuela, Mina
Windmill, windpump; Water mill	Molino de viento, bomba de viento;
Tank, Landmark object	Tanque; Punto conspicuo
Horizontal control point	Punto de control horizontal (triangulación)
Bench mark	Punto de control vertical (cota fija)
Spot elevations in meters:	Elevaciones en metros:
Checked, Unchecked	Comprobadas; Fotogramétricas
Sand, Lava	Arena; Lava
Woods; brushwood; Scrub	Bosque, monte alto; Matorral, monte bajo
Orchard; Tropical grass	Huerta; Hierba tropical
Macgrove; Nipa	Manglar; Nipa
Rice; Salt evaporator	Arrozal; Salina
Land subject to inundation;	Terreno sujeto a inundación;
Dry stream or wash	Rio seco o aluvión
Well; Spring; Intermittent stream	Pozo; Manantial; Rio intermitente
Intermittent lake	Lago o charco intermitente
Mash or swamp; Dam	Ciénaga o pantano; Represa
Large rapids; Large falls	Rápidos grandes; Saltos grandes
Rapids; Falls; Pier	Rápidos; Saltos; Muelle
Exposed wreck	Naufragio al descubierto
Sunken wreck; Anchorage	Naufragio sumergido; Anclaje
Sunken rock	Roca sumergida
Rock, uncovering or wash	Roca al descubierto o a flor de agua
Limit of danger	Peligro submarino de índole general
Soundings in fathoms;	Sondeos en brazas (1.8m);
Foreshore flat	Bajo de anteplaya
Reef; Light, lighthouse	Arrecife; Luz; Faro
Depth curves in fathoms	Curvas de profundidad en brazas (1.8m)

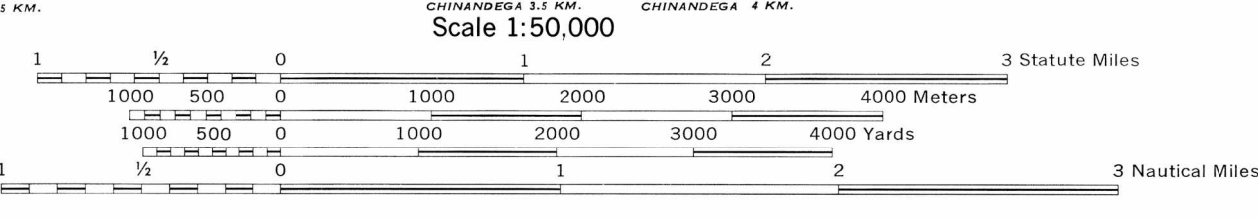
GLOSSARY
GLOSARIO

Carretera	highway
Cem	cemetery
Cerro	hill, mountain
Comarca	rural district
Estacion	railroad station
Estero	channel, inlet, stream
El Vado	ford
Hato	cattle ranch
Laguna	lake
Loma	hill, mountain
Playa	beach
Quebrada	ravine, stream
Quezera	quarry
Rancho	farm, ranch
Recreo	place of amusement
Rio	stream
Vado	ford
Volcan	volcano

Prepared by the Oficina de Geodesia, Ministerio de Fomento, Managua, Nicaragua, in collaboration with the Inter-American Geodetic Survey (IAGS). Compiled in 1961 by photogrammetric methods from aerial photography flown in 1954 and field annotated in 1961. Horizontal and vertical control established by the Dirección General de Cartografía and the Inter-American Geodetic Survey. Marginal data revised 1964 by the Army Map Service (PV), Corps of Engineers, U.S. Army, Washington, D.C. Map not field checked. Roads revised 1964 from latest available sources.



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CONTOUR INTERVAL 20 METERS WITH SUPPLEMENTARY CONTOURS AT 10 METER INTERVALS
INTERVALO DE CURVAS DE NIVEL DE 20 METROS CON CURVAS SUPLEMENTARIAS A 10 METROS
VERTICAL DATUM: MEAN SEA LEVEL

TRANSVERSE MERCATOR PROJECTION
HORIZONTAL DATUM: 1927 NORTH AMERICAN DATUM

BLACK NUMBERED LINES INDICATE THE 1,000 METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 16, CLARKE 1866 SPHEROID
LAS LÍNEAS NEGRAS NUMERADAS INDICAN EL CUADRICULADO DE MIL METROS DE LA PROYECCIÓN UNIVERSAL TRANSVERSAL DE MERCATOR, ESPHEROIDE DE CLARKE DE 1866, ZONA 16

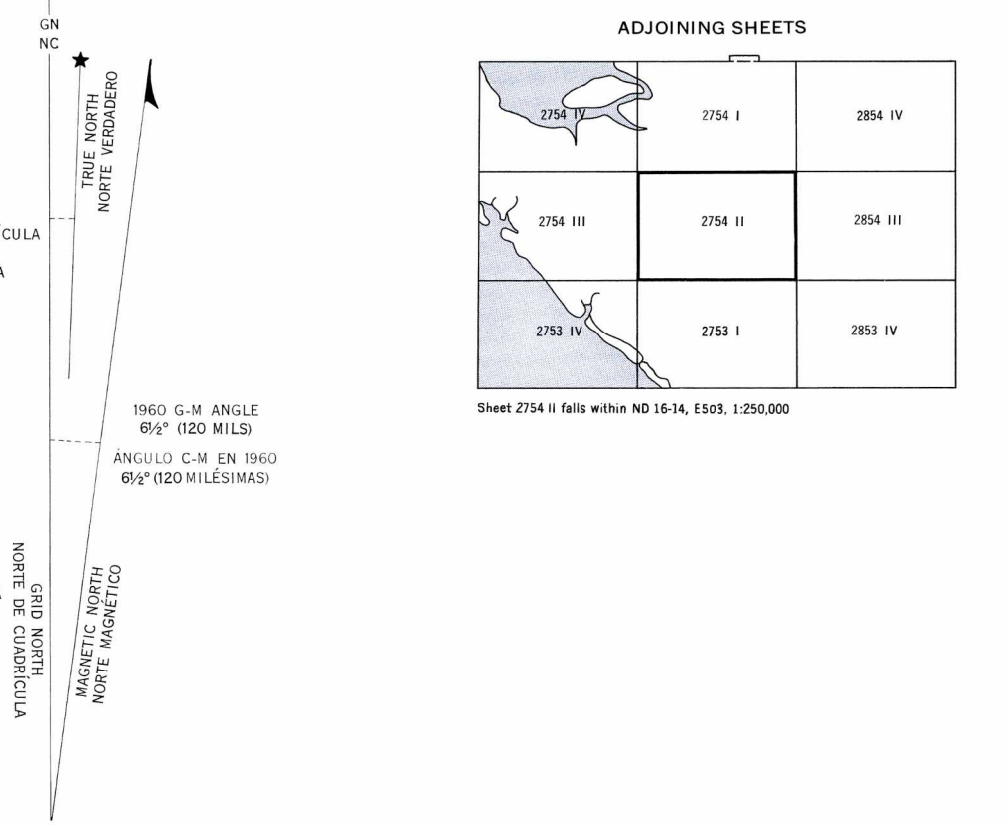
BROWN NUMBERED TICKS INSIDE THE NEATLINE INDICATE THE 1,000 METER LAMBERT GRID, NICARAGUA SOUTH ZONE
LOS TRAZOS DE LOS NÚMEROS EN SEPIA DENTRO DE LA LÍNEA MARGINAL INDICAN LA CUADRICULA DE LAMBERT DE MIL METROS, ZONA DE NICARAGUA SUR

USERS SHOULD REFER TO CORRECTIONS, ADDITIONS AND COMMENTS TO THE NIMA CUSTOMER HELP DESK 1-800-455-8889 COMMERCIAL 1-301-205-1228 1-800-455-1228 OR WRITE TO: ATTN: GSD MAIL STOP 5-07 NATIONAL IMAGERY AND MAPPING ACTIVITY 4600 SANGAMON RIVER ROAD BETHESDA, MD 20814-5002

GRID CONVERGENCE
0°2' (0 MIL)
FOR CENTER OF SHEET
LA CONVERGENCIA DE LA CUADRICULA
0°2' (-1 MILESIMAS)
PARA EL CENTRO DE LA HOJA

TO CONVERT A MAGNETIC AZIMUTH TO A GRID AZIMUTH
ADD G-M ANGLE
PARA CONVERTIR UN ACIMUT MAGNÉTICO A UN ACIMUT DE CUADRICULA
SUMESE EL ÁNGULO C-M

TO CONVERT A GRID AZIMUTH TO A MAGNETIC AZIMUTH
SUBTRACT G-M ANGLE
PARA CONVERTIR UN ACIMUT DE CUADRICULA A UN ACIMUT MAGNÉTICO
RESTESE EL ÁNGULO C-M



GRID ZONE DESIGNATION DESIGNACIÓN DE ZONA DE CUADRICULA	16P	PARA UNA REFERENCIA EN ESTA HOJA A LOS USOS MÁS COMUNES	SANTA CRISTINA
TO USE A STANDARD REFERENCE ON THIS SHEET TO MEASURE IN METERS	1. Read letters identifying 100,000 meter squares in which the point lies. 2. Locate the horizontal grid line to the left of the point and read EASTING figures showing the true value in the top left-hand margin, or in the top right.	PARA UNA REFERENCIA EN ESTA HOJA A LOS USOS MÁS COMUNES	1. Leer las letras que identifican el cuadrado de 100,000 metros del cual se encuentra el punto. 2. Localizar la línea horizontal de la cuadrícula que precede al punto y leer los números de la parte superior izquierda o superior derecha de la hoja, ya sea en el margen superior, o en el ángulo superior derecho.
GRID ZONE DESIGNATION DESIGNACIÓN DE ZONA DE CUADRICULA	DK	TO USE A STANDARD REFERENCE ON THIS SHEET TO MEASURE IN METERS	1. Read letters identifying 100,000 meter squares in which the point lies. 2. Locate the horizontal grid line to the left of the point and read EASTING figures showing the true value in the top left-hand margin, or in the top right.
GRID ZONE DESIGNATION DESIGNACIÓN DE ZONA DE CUADRICULA	500	TO USE A STANDARD REFERENCE ON THIS SHEET TO MEASURE IN METERS	1. Read letters identifying 100,000 meter squares in which the point lies. 2. Locate the horizontal grid line to the left of the point and read EASTING figures showing the true value in the top left-hand margin, or in the top right.
GRID ZONE DESIGNATION DESIGNACIÓN DE ZONA DE CUADRICULA	1401000	TO USE A STANDARD REFERENCE ON THIS SHEET TO MEASURE IN METERS	1. Read letters identifying 100,000 meter squares in which the point lies. 2. Locate the horizontal grid line to the left of the point and read EASTING figures showing the true value in the top left-hand margin, or in the top right.



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TONALÁ, NICARAGUA