



ELEVATION TINTS

2905
2600
2300
2000
1700
1400
1100
800
500
200
0
Below Sea Level

RELIABILITY OF THIS GRAPHIC
(as determined by standard practices)

PLOTTING ACCURACY	
Horizontal	within 1/16" (1.6 mm)
Vertical	within 1/32" (0.8 mm)
DATE OF INFORMATION	
Main-made features	1983
Vegetation	1983
All other features	1983

Graphic not field checked

Horizontal Datum: World Geodetic System 84
Vertical Datum: Mean Sea Level
Transverse Mercator Projection

GLOSSARY

Caño... stream
Cerro(s)... hills(s), mountain
Embalse... reservoir
Fila... hill, ridge
Galeras... ridge
Laguna... pond, lake
Loma(s)... hill(s)
Paseo... pass
Quebrada... stream
Rio... stream
Sabana(s)... savanna
Serranía... hills, mountain

LOCATION DIAGRAM
INDEX SHOWN IN BLUE
(WAC INDEX SHOWN IN RED/BROWN)

NC 19-7	NC 19-8	NC 20-5
NC 19-11	NC 19-12	NC 20-9
NC 19-15	NC 19-16	NC 20-13

THE REPRESENTATION OF BOUNDARIES IS NOT NECESSARILY AUTHORITY.
LA REPRESENTACIÓN DE LÍMITES NO DEBE CONSIDERARSE OFICIAL.

CONVERSION OF ELEVATIONS

FEET	METERS	FEET	METERS
1000	305	10000	3048
800	274	8000	2743
600	244	6000	2438
400	213	4000	2134
200	183	2000	1829
100	152	1000	1524
50	122	500	1219
30	91	300	914
20	61	200	610
10	46	100	457
0	31	0	305

GEOREF
BASIC 15° QUADRANGLE
HG

9°	HK	JK	66°
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CAUTION
AIR INFORMATION CURRENT THROUGH 23 DECEMBER 1991
Consult NOTAMS and Flight Information Publications for the latest air information. Use DMA Aeronautical Chart Updating Manual or MDG (U.S.A.) Aeronautical Chart Amendment Document for other chart revision information.

CAUTION
Vertical obstructions, including domes, have been corrected from the most reliable sources available. However, there is no assurance that all are shown, or that their locations or heights are exact.

ATTENTION
THIS CHART CONTAINS MAXIMUM ELEVATION FIGURES (MEF)
The Maximum Elevation Figure shown in quadrangles is the highest elevation within the quadrangle. It is not necessarily the highest elevation in the area. It is the highest elevation shown in the quadrangle, including terrain and obstructions (dome, tower, antenna, etc.).

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Prepared and published by the DMA Aerospace Center
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DMG IS UPDATING THE MILITARY GRID REFERENCE SYSTEM UNTIL ALL ADJACENT AND OVERLAPPING SHEETS ARE CONVERTED. THE NEW GRID VALUES ARE DEPICTED IN BLUE AND THE OLD IN BROWN.

SAMPLE 1000 METER GRID SQUARE
1000 METERS DE CADA CUADRO
1000 METERS DE CADA CUADRO

SAMPLE 1000 METER REFERENCE
REFERENCIA DE 1000 METROS

REFERENCIA DE 1000 METROS (EJEMPLO)

GRID ZONE DESIGNATION
DESIGNACIÓN DE UNA ZONA DE LA CUADRÍCULA

ROADS — CAMINOS
All weather, hard surface
Transitable todo el año, superficie sólida
Two or more lanes wide
Dos o más vías de ancho
One lane wide
Una vía de ancho
All weather, loose or light surface
Transitable todo el año, superficie suelta o ligera
Two or more lanes wide
Dos o más vías de ancho
One lane wide
Una vía de ancho
Fair or dry weather, loose surface
Transitable en tiempo bueno o seco, superficie suelta
Una vía de ancho
Fair or dry weather, loose surface
Transitable en tiempo bueno o seco, superficie suelta
Una vía de ancho
Fair or dry weather, loose surface
Transitable en tiempo bueno o seco, superficie suelta
Una vía de ancho

RAILROADS — FERROCARRILES
Normal gauge 0.914m (3')
0.914 metros — Vía ancha o normal
Narrow gauge
Vía angosta

BOUNDARIES — LÍMITES
International
First order administrative division
Vegetation — Vegetación
Woods: Mangrove Bosque, Manglar

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JOINT OPERATIONS GRAPHIC (AIR)

SCALE 1:250,000

5 0 5 10 15 20 Statute Miles
5 0 5 10 15 Kilometers

CONTOUR INTERVAL APPROXIMATELY 330 FEET WITH SUPPLEMENTARY CONTOURS AT APPROXIMATELY 165 FOOT INTERVALS
EQUIDISTANCIA APROXIMADA DE LAS CURVAS DE NIVEL 330 PIES CON CURVAS SUPLEMENTARIAS A INTERVALOS DE 165 PIES

COORDINATE CONVERSION FROM WORLD GEODETIC SYSTEM DATUM WORLD GEODETIC SYSTEM ELLIPSOID TO PROVISIONAL SOUTH AMERICAN DATUM INTERNATIONAL ELLIPSOID
LÍNEAS NUMERADAS EN AZUL INDICAN 10,000 METROS DE LA CUADRÍCULA UNIVERSAL TRANSVERSERA DE MÉRICA DEL SUR. ELIPSOIDE DEL SISTEMA GEODÉSICO MUNDIAL.
LÍNEAS NUMERADAS EN MARRÓN INDICAN 10,000 METROS DE LA CUADRÍCULA UNIVERSAL TRANSVERSERA DE MÉRICA DEL SUR. ELIPSOIDE DEL SISTEMA GEODÉSICO MUNDIAL.

USERS SHOULD REFER CORRECTIONS, ADDITIONS AND COMMENTS TO THE NIMA OPERATIONAL HELP DESK:
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AERODROMES (Military or Civil)
AERODROMES (Militares o civiles)

EDNA/50/s
725

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ELEVATIONS IN FEET ELEVACIONES EN PIES

CONTROLLED AIRSPACE ESPACIO AEREO CONTROLADO
ADIZ
ADIZ (ZONA DE IDENTIFICACION DE DEFENSA AEREA)

RADIO FACILITIES INSTALACIONES DE RADIO
RADIO RANGE LF/MF
RADIOFARO LF/MF
MULTIPLE RADIO FACILITIES INSTALACIONES MÚLTIPLES

RADIO AIDS TO NAVIGATION RADIOAYUDAS A LA NAVEGACION
VHF OMNI RANGE (VOR)
RADIOFARO OMNIDIRECCIONAL
VHF (VOR)
VORTAC
TACAN
TACAN

YOR with DME YOR with DME CONJUNTAMENTE
YOR with DME CONJUNTAMENTE
YOR with DME CONJUNTAMENTE
YOR with DME CONJUNTAMENTE

VISUAL AIDS AND OBSTRUCTIONS OBSTACULOS Y AYUDAS VISUALES
Obstruction Obstrucción
1033 — Elevation of obstruction top, above sea level
Elevación de la cúspide, sobre el nivel medio del mar
1050 — Elevation of obstruction top, above ground level
Elevación de la cúspide, sobre el nivel del terreno
Group Obstruction Grupo de obstáculos
Radio facility obstruction Obstrucción construido por una instalación de radio
Los obstáculos, las torres
Power transmission line Línea de alta tensión
Visual ground sign Señal terrestre visual
Aero light, Marine light
Luz aeromarina, Luz marítima

TERRAIN ELEVATIONS ELEVACIONES DEL TERRENO
Spot elevation, Normal Cite
Punto aislado, Normal Cite
Highest known elevation is 5577 feet at the following coordinates:
Elevación más alta conocida es 5577 pies en las coordenadas siguientes:
Geographic 9°59'N, 66°56'W
Grid 19P
Cuaradrícula 19P19

NOTES — NOTAS
Powerlines are shown except within populated place limits. Other obstructions are shown if they are 200 feet or more above ground level. Sea cautions noted.
Se muestran líneas de alta tensión con la excepción de dentro de los áreas en tinta que representan lugares poblados. Se muestran otras obstrucciones si están 200 o más pies sobre el nivel terreno. Ver Advertencias.
On this graphic a lane is generally considered as being 2.5 to 3.6 meters (8 to 12 feet) in width.
En esta gráfica se considera que el ancho de una pista de carretera es de 2.5 a 3.6 metros (8 a 12 pies).
In built-up areas only through routes are classified.
Las carreteras están clasificadas solamente en las áreas desarrolladas urbanadas.
Caution: Not all telephone and electric service lines are shown. Plicación: No se muestran todas las líneas telefónicas ni de servicio eléctrica.
Se debe referir a la clasificación de caminos con cuidado.
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