

SERIES 1501 AIR SHEET SD-19-15 EDITION 1

POPULATED PLACES - LUGARES POBLADOS

- Over 100,000 Más de 100,000
- 50,000 to 100,000 50,000 a 100,000
- 10,000 to 50,000 10,000 a 50,000
- 2,000 to 10,000 2,000 a 10,000
- Less than 2,000 Menos de 2,000

LA PAZ VIACHA
Caranavi Padilla
Ciudad Ciemoleya

ROADS - CARRETERAS

- All weather hard surface Superficie dura para todo clima
- Two lanes wide Dos carriles de ancho
- One lane wide Un carril de ancho
- All weather, loose or light surface Superficie ligera o suelta para todo clima
- Two lanes wide Dos carriles de ancho
- One lane wide Un carril de ancho
- Fair or dry weather, loose surface Saco o buen clima, superficie suelta
- Cart track Camino para carretas
- Footpath trail Sendero, senda
- Route marker Marcador de ruta

RAILROADS - FERROCARRILES
Normal gauge 1.44m (4'8 1/4") Entrenche normal

BOUNDARIES - LÍMITES
International Internacional
First-order administrative division División administrativa de primer orden

OTHER FEATURES - OTRAS CARACTERÍSTICAS
Horizontal control point Punto de referencia horizontal
School, Church, Escuela, Iglesia
Mine Mina
Distorted surface Superficie deformada

VEGETATION - VEGETACIÓN
Woods Bosque
Scattered trees Árboles esparcidos
Tropical grass Hierba tropical

HYDROGRAPHY - HIDROGRAFÍA
Well, Spring Pozo, Manantial
Land subject to inundation Terreno sujeto a inundación
Swamp or marsh Pantano o ciénaga
Intermittent river Río intermitente
Intermittent lake Lago intermitente

TERRAIN ELEVATIONS - ALTITUDES DEL TERRENO
Spot elevation: Normal, Critical
Altitud de un punto: Normal, Crítico

HIGHEST KNOWN ELEVATION IS 21093 feet at the following coordinates:
MAYOR ALTURA CONOCIDA es de 21093 pies en las siguientes coordenadas:
Geographic Geográficas: 8°32'27" S 157°13' S
Grid de la cuadrícula: EC4948

AERODROMES (Military or Civil)
AERODROMOS (Militares o Civiles)

CAUTION
Vertical obstructions, including antennas, have been vectored from the most reliable sources available. However, there is assurance that all are shown, or that their locations or heights are exact.

ADVERTENCIA
Las obstrucciones verticales, incluso las torres de transporte de energía, han sido vectoradas de las fuentes más fiables disponibles. Sin embargo, no hay certeza que todas se hayan reportado a los datos disponibles o que sus alturas sean exactas.

CAUTION
AIR INFORMATION CURRENT THROUGH
Consult NOTAMS and Flight Information Publications for the latest air information; the NIMA Aeronautical Chart Updating Manual or MOD (U.K.) Aeronautical Chart Amendment document, for other chart revision information.

ADVERTENCIA
INFORMACIÓN AERONÁUTICA CORRIENTE
JULIO 1997
Consultar NOTAMS y Publicaciones de Información de Vuelo para las últimas informaciones; el NIMA Aeronautical Chart Updating Manual o MOD (U.K.) Aeronautical Chart Amendment document, para otros documentos de actualización de cartas.

LINES OF EQUAL MAGNETIC VARIATION FOR 1995
(Annual rate of change, 10' increase)
LÍNEAS DE IGUAL VARIACION MAGNETICA PARA 1995
(Cambio anual, aumento de 10')

ATTENTION
THIS CHART CONTAINS MAXIMUM ELEVATION FIGURES (MEF)
The Maximum Elevation Figure shows a quadrangle bounded by dotted lines of latitude and longitude are represented by TENSIDIGITS and HUNDREDS of feet above mean sea level. The MEF is based on information available concerning the highest known feature in each quadrangle including terrain and obstructions (trees, towers, antennas, etc.) in areas of uncertain reliability. The MEF is shown by a note spaced across the area.

EXAMPLE: 12,500 feet
125

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

SD-19-5 SD-19-6 SD-19-7 SD-19-8 SD-19-9
SD-19-10 SD-19-11 SD-19-12 SD-19-13 SD-19-14
SD-19-15 SD-19-16 SD-19-17 SD-19-18 SD-19-19
SD-19-20 SD-19-21 SD-19-22 SD-19-23 SD-19-24

SCALE: 1:250,000
SORATA, BOLIVIA

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ELEVATIONS IN FEET / ELEVACIONES EN PIES

COORDINATE CONVERSION WGS 84 TO PSAD 56
Grid: Azid 1984 T. Add 239m. N. Geographic: Subtract 81 T. Long: Subtract 13'00" Lat.

CONVERSION OF ELEVATIONS

FEET	METERS	FEET	METERS
1500	457	2000	609.6
1000	305	1500	457.2
800	244	9000	2743
600	183	8000	2438
400	122	7000	2134
200	61	6000	1829
100	31	5000	1524
		4000	1219
		300	91.4
		200	61
		150	45.7
		100	30.5

SAMPLE 1,000 METER REFERENCE

ELEVATION IN METERS

USING THE SLOPE INDICATION
INDICACION DE LA PENDIENTE EN METROS

GRID ZONE DESIGNATION
DESIGNACION DE LA ZONA CUADRANGULAR

USING THE SLOPE INDICATION
INDICACION DE LA PENDIENTE EN METROS

GRID ZONE DESIGNATION
DESIGNACION DE LA ZONA CUADRANGULAR

JOINT OPERATIONS GRAPHIC (AIR)

SCALE 1:250,000

ELEVATIONS IN FEET / ELEVACIONES EN PIES

CONTOUR INTERVAL APPROXIMATELY 330 FEET
CURVAS DE NIVEL 330 PIES APROXIMADOS

BLUE NUMBERED LINES INDICATE THE 10,000 METER UNIVERSAL TRANSVERSE MERCATOR GRID ZONE 19, WGS 1984 ELLIPSOID
LAS LINEAS AZULES NUMERADAS INDICAN LA CUADRANGULAR DE 10,000 METROS UTM, ZONA 19, ELLIPSOID INTERNACIONAL

RED BROWN NUMBERED TICKS INSIDE THE NEATLINE INDICATE THE 10,000 METER UNIVERSAL TRANSVERSE MERCATOR GRID ZONE 19, INTERNATIONAL ELLIPSOID
LAS MARCAS DENTRO DEL MARGEN NUMERADAS EN ROJO PANDEN INDICAN LA CUADRANGULAR DE 10,000 METROS UTM, ZONA 19, ELLIPSOID INTERNACIONAL

USERS SHOULD REFER TO DIRECTOR, NATIONAL GEOGRAPHIC-INTELLIGENCE AGENCY, ATTN: ES, MAIL STOP L-88, 4800 SANGAMORE ROAD, BETHESDA, MD 20816-5003.

GEOREF BASIC 15° QUADRANGLE

GLOSSARY

Arroyo Intermittent stream, stream
Cerro Mountain peak
Comunidad (Ciudad) populated place, town
Colonia (Cajal) colony settlement
Cooperativa aurifera auriferous cooperative
Cordillera mountain range
Estancia (Ecia) farm
Nevado snow capped mountain
Lago Lake
Rancho ranch
Rio river
Serranía mountain range
Vado ford

ELEVATION TINTS

FEET	TINT
14785	[Dark Blue]
8800	[Light Blue]
2950	[Yellow]
860	[Light Green]

RELIABILITY OF THIS GRAPHIC
Compiled from best available source materials.
Horizontal Datum: World Geodetic System
Vertical Datum: Mean Sea Level
Transverse Mercator Projection

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NOTES
Powerlines are shown except within populated place limits. Other obstructions are shown if they are 200 feet or more above ground level. See caution note.
Se muestran las líneas de alta tensión con excepción dentro de los límites de las zonas pobladas. Otras obstrucciones se muestran si están 200 pies o más sobre el nivel del terreno. Ver Advertencia.
BOUNDARY REPRESENTATION IS NOT NECESSARILY AUTHENTICATIVE. LA REPRESENTACION DE LÍMITES NO DEBE CONSIDERARSE OFICIAL.
On this graphic a lane is generally considered as being 8 feet (2.5 meters) in width.
En este gráfico se considera que una vía tiene un ancho de 8 pies (2.5 metros).
Road classification should be referred to with caution. La clasificación de los caminos debería referirse con cautela.
Vegetation should be referred to with caution. Vegetación debería referirse con cautela.

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Scale
0 5 10 15 20 25 30
0 5 10 15 20 25 30
Statute Miles
Nautical Miles