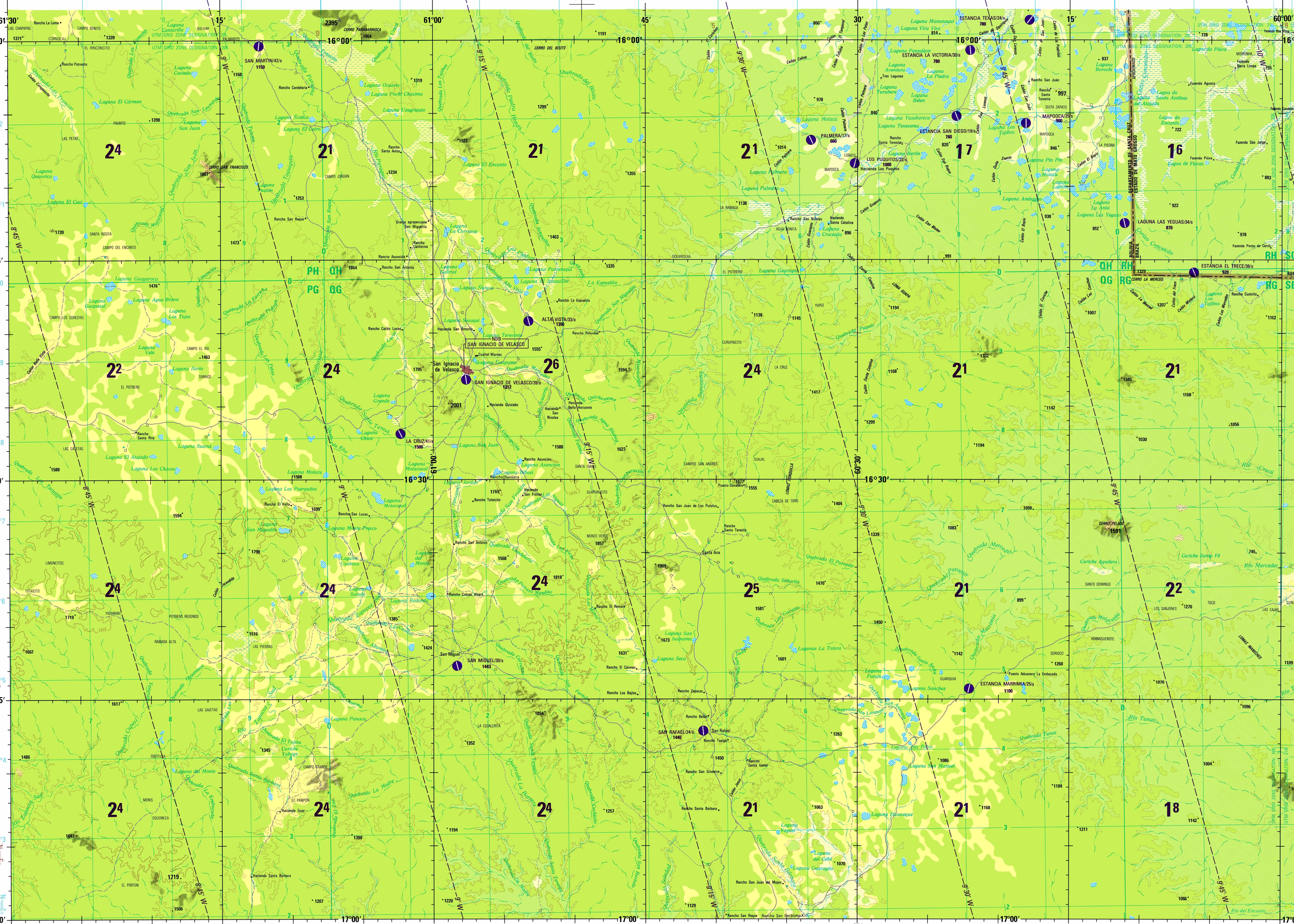


SERIES 1501 AIR SHEET SE 20-4 EDITION 1

- POPULATED PLACES-POBLACIONES**
- Over 100,000 - Mas de 100,000 **LA PAZ**
  - 50,000 to 100,000 - 50,000 a 100,000 **COCHABAMBA**
  - 10,000 to 50,000 - 10,000 a 50,000 **YUMI**
  - 2,000 to 10,000 - 2,000 a 10,000 **ATOCHA**
- ROADS-CAMINOS**
- All weather, hard surface. Transitable todo el año, pavimento sólido.
  - Two lanes wide Vías de ancho
  - One lane wide Una vía de ancho
  - All weather, loose or light surface. Transitable todo el año, revestimiento suelto o ligero.
  - Two lanes wide Vías de ancho
  - One lane wide Una vía de ancho
  - Fair or dry weather, loose surface. Transitable en tiempo bueno o seco, revestimiento suelto.
  - Cart track - Vereda de rodada
  - Footpath, trail, track, camino
  - Road marker Solido de ruta
- RAILROADS-FERROCARRILES**
- Normal gauge 4'8 1/2" (1.44m) - Via normal
  - Narrow gauge - Via angosta
- BOUNDARIES-LIMITES**
- International-Internacional
  - First-order administrative division-Departamento
- OTHER FEATURES-OTROS DETALLES**
- Landmark feature or object Objeto o marca terrestre
  - Horizontal control point Punto de control horizontal
  - Church, School Iglesia, Escuela
  - Mine Mina
  - Distorted surface Superficie deformada
  - Sand Arena
- VEGETATION-VEGETACION**
- Woods Bosque
  - Orchard, vineyard, plantation Huerta, viña, plantacion
  - Tropical grass Hierba tropical
- HYDROGRAPHY-HIDROGRAFIA**
- Spring, Well Aguado, Pozo
  - Land subject to inundation Terreno sujeto a inundacion
  - Swamp or marsh Pantano o cobajo
  - Intermittent stream Rio intermitente
  - Intermittent lake Laguna intermitente
- TERRAIN ELEVATIONS-ELEVACIONES DEL TERRENO**
- HIGHEST KNOWN ELEVATION IS 2395 feet at the following coordinates:  
 Geographic: 15° 58' S, 61° 07' W  
 Grid: QH0233
- La elevación más alta conocida es de 2395 pies en las siguientes coordenadas:  
 Geográfica: 15° 58' S, 61° 07' W  
 Cuadrícula: QH0233
- AERODROMES (Military or Civil) AERODROMOS (Militares o Civiles)**
- Runway pattern known Diseño de pista de aterrizaje conocido
  - EDNA-Name Nombre
  - EDNA-Length of longest runway to nearest hundreds of feet Longitud de la pista más larga a las centenas de pies más próximas
  - s-Soft or unimproved surface Superficie suelta o no mejorada
  - u-Unknown surface Superficie desconocida
  - 725-Elevation Altitud
  - Runway pattern unknown Diseño de pista de aterrizaje desconocido
  - HELIPORT/HELIPAD HELIPERDOLISA PARA HELICOPTEROS
- RADIO FACILITIES-FACILIDADES DE RADIO**
- RADIO RANGE LF/MF ALICANCE DE RADIO LF/MF
  - MULTIPLE RADIO FACILITIES MULTIPLES FACILIDADES DE RADIO



**CAUTION**

General observations, including obstructions, have been extracted from the most reliable sources available. However, there is no assurance that they are shown, or that their locations or heights are exact.

**CAUTION**

**AIR INFORMATION CURRENT THROUGH 13 MARCH 1992**

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

**LINE OF EQUAL MAGNETIC VARIATION FOR 1990**  
 (Annual rate of change, 10' increase)

**LÍNEAS DE VARIACION IGUAL MAGNETICA PARA 1990**  
 (Cambio anual, aumento de 10')

**ATTENTION**

**THIS CHART CONTAINS MAXIMUM ELEVATION FIGURES (MEF)**

The Maximum Elevation Figures shown in quadrangles bounded by solid lines of latitude and longitude are represented in THOUSANDS and HUNDREDS of feet above mean sea level. The MEF is based on information available concerning the highest known features in each quadrangle, including terrain and obstructions (trees, towers, antennas, etc.).

EXAMPLE: 12,500 feet **125**

**LOCATION DIAGRAM**  
 (ICAC INDEX SHOWN IN BLUE)  
 (IWCAC INDEX SHOWN IN RED/BROWN)

SD 20-10	SD 20-11	SD 20-12	SD 21-9	SD 21-10
SD 20-14	SD 20-15	SD 20-16	SD 21-13	SD 21-14
SE 20-2	SE 20-3	SE 20-4	SE 21-1	SE 21-2
SE 20-6	SE 20-7	SE 20-8	SE 21-5	SE 21-6
SE 20-10	SE 20-11	SE 20-12	SE 21-9	SE 21-10

Prepared and published by the Defense Mapping Agency Hydrographic/Topographic Center, Bethesda, MD. Compiled April 1980.

**CONVERSION OF ELEVATIONS**

FEET	METERS	FEET	METERS
1000	305	1000	3048
900	274	9000	2743
800	244	8000	2438
700	213	7000	2133
600	183	6000	1828
500	152	5000	1523
400	122	4000	1218
300	91	3000	914
200	61	2000	610
150	46	1500	457
100	31	1000	305

**CONVERSION DE COORDENADAS WGS 84 TO PSAD 56**  
 (ICAC INDEX SHOWN IN BLUE)  
 (IWCAC INDEX SHOWN IN RED/BROWN)

**CONVERSION DE COORDENADAS WGS 84 TO PSAD 56**  
 (ICAC INDEX SHOWN IN BLUE)  
 (IWCAC INDEX SHOWN IN RED/BROWN)

WHEN REFERRING OUTSIDE THE GRID ZONE DESIGNATION AREA, A REFERENCE POINT MUST BE PROVIDED TO IDENTIFY THE GRID ZONE DESIGNATION.

CUANDO SE HACE REFERENCIA FUERA DEL AREA DE LA ZONA DESIGNADA DE COORDENADAS, UN PUNTO DE REFERENCIA DEBE PROPORCIONARSE A LA REFERENCIA ANTERIOR A LA DESIGNACION DE LA ZONA DE COORDENADAS.

EXAMPLE: 20K AB1234

**CONTOUR INTERVAL APPROXIMATELY 330 FEET**  
 CURVAS DE NIVEL 330 PIES APROXIMADOS

BLUE NUMBERED LINES INDICATE THE HELIOMETER UNIVERSAL TRANSVERSE MERCATOR GRID ZONE OR WGS 84 EPSG31470 HELIOMETER UNIVERSAL TRANSVERSE MERCATOR COORDINATE. (ICAC INDEX SHOWN IN BLUE)  
 LAS LINEAS NUMERADAS EN AZUL INDICAN LA COORDENADA DE HELIOMETER UNIVERSAL TRANSVERSE MERCATOR DEL SISTEMA DE COORDENADAS WGS 84. (ICAC INDEX SHOWN IN BLUE)

RED/BROWN NUMBERED TICKS INSIDE THE NEUTRINE INDICATE THE HELIOMETER UNIVERSAL TRANSVERSE MERCATOR GRID ZONE OR INTERNATIONAL ELLIPSOID. (ICAC INDEX SHOWN IN RED/BROWN)  
 LAS LINEAS NUMERADAS EN ROJO/NEGRO DENTRO DEL NEUTRINO INDICAN LA COORDENADA DE HELIOMETER UNIVERSAL TRANSVERSE MERCATOR DEL SISTEMA DE COORDENADAS WGS 84. (ICAC INDEX SHOWN IN RED/BROWN)

**JOINT OPERATIONS GRAPHIC (AIR)**

SCALE 1:250,000

0 5 10 15 20 25 30 Statute Miles

0 5 10 15 20 25 30 Kilometers

0 5 10 15 20 25 30 Nautical Miles

USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NGA OPERATIONAL HELP DESK: 1-800-455-4889 (COMMERCIAL 314-263-4884) (CON 484-4884) OR WRITE TO: DIRECTOR, NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY, ATTN: ES, MAIL STOP L-8, 4800 SANGAMORE ROAD, BETHESDA, MD 20816-5002

**GLOSSARY GLOSARIO**

Aproximado	approximate
Campo	plain
Cerro	hill, mountain, ridge
Comunidad	village
Cuartel	intermittent stream
Curche	barack
Departamento	first-order administrative division
Estado	first-order administrative division
Estancia	ranch, station
Familia	ranch, station
Granja agropecuaria	stock farm
Hacienda	estate, ranch
Lago	swamp
Laguna	lake, pond, swamp
Loma(s)	(hill)s; ridge(s)
Puerto ganadero	cattle shed
Rancho	intermittent stream
Rancho	ranch, farm
Rio	line track
Rio	stream
Silo	farm

**RELIABILITY OF THIS GRAPHIC**  
 (as determined by standard procedure)

**CONFIANZA DE ESTA GRAFICA**  
 (determinada por un procedimiento)

**POSTING ACCURACY 90% ASSURANCE**  
 EXACTITUD DE COMPLECION 90% CUMPLIANZA

Horizontal: within 410 feet  
 Horizontal: dentro de 410 pies  
 Contours: within 520 feet  
 Contorno de nivel: dentro de 520 pies

**GRAPHIC FEATURE**  
 DETALLE DE GRAFICA

**DATE OF INFORMATION**  
 FECHA DE INFORMACION

All features: 1973  
 Todos los detalles: 1973

Real information not verified  
 Información de cartografía no verificada

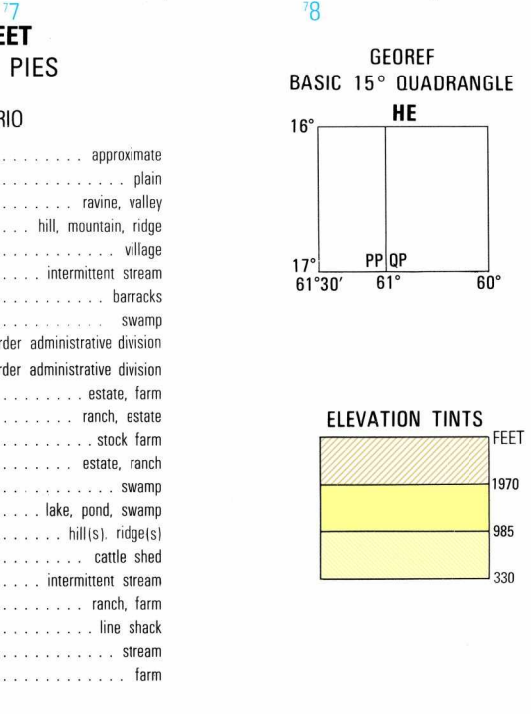
Map field checked  
 Mapa comprobado en el campo

Reviewed by IGM Bolivia 1980  
 Revisado por IGM Bolivia 1980

Horizontal Datum: World Geodetic System  
 Data Horizontal: Sistema Geodesico Mundial (WGS)

Vertical Datum: Mean Sea Level  
 Data Vertical: Nivel Medio del Mar

Transverse Mercator Projection  
 Proyeccion Transversa de Mercator



Printed by the Defense Mapping Agency Hydrographic/Topographic Center 3-92

**NOTES-NOTAS**

Poverlines 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 de dentro de los lugares poblados (línea roja). Se muestran otras obstrucciones si están 200 pies o más sobre el nivel del terreno. Ver Advertencia.

**THE REPRESENTATION OF INTERNATIONAL BOUNDARIES ON THIS GRAPHIC IS NOT NECESSARILY AUTHENTICATIVE.**  
 LA REPRESENTACION DE LIMITES INTERNACIONALES EN ESTE GRAFICO NO SE GARANTIZA NECESARIAMENTE.

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).

Vegetation 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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