SERIES 1501 AIR
SHEET NI 42-16
EDITION 5

SERIES 1501 COMPANION SHEET IS EDITION 3

POPULATED PLACES

Over 100,000	ISLĀMĀBĀD
50,000–100,000	MIĀNWĀLI
10,000–50,000	Kundiān
2,000–10,000	Fatehjang
Less than 2,000	Akhori

ROADS

Dual highway — 4 LANES DUAL

All weather, hard surface:
- More than two lanes wide — 4 LANES
- Two lanes wide
- One lane wide

All weather, loose or light surface:
- More than two lanes wide — 3 LANES
- Two lanes wide
- One lane wide

Fair or dry weather, loose surface
Cart track
Footpath, trail
Route marker — 50

RAILROADS — Single track / Multiple track

Normal gauge 4'8½" (1.44m)
Station position — known / unknown
Narrow gauge

BOUNDARIES

International
First-order administrative division

VEGETATION

Woods-brushwood

OTHER FEATURES

Area name — RŪDAK
School; Church; Mosque
Landmark feature or object
Tank; Well; Wall; Fence
Hut, kraal; Pass; Mine or quarry
Horizontal control point
Astronomic position
Sand; Distorted surface
Escarpment; Levee

HYDROGRAPHY

Underground aqueduct with shafts
Small reservoir; Dry lake
Sabkha (Kavir); Intermittent lake
Intermittent streams: Single; Double line
Well: Perennial; Intermittent; Disappearing stream
Spring, fountain, cistern; Dam; Salt evaporator
Wadi; Land subject to inundation
Rice paddy; Marsh or swamp

Area of the Indus River is subject to inundation and seasonal fluctuations.

TERRAIN ELEVATIONS

Spot elevation: normal; critical — .338 .1108

HIGHEST KNOWN elevation is **4918** feet at the following coordinates:
Geographic — 32°32'N, 71°56'E
Grid — YB7504

±following elevation value indicates accuracy is not within 100 feet.

AERODROMES (Military or Civil)

Runway pattern known — EDNA/50/s 725

EDNA–Name
50–Length of longest runway to nearest hundreds of feet
s–Soft or unimproved surface
u–Unknown surface
725–Elevation

Runway pattern unknown
HELIPORT/HELIPAD

RADIO FACILITIES

RADIO RANGE LF/MF — RNG HURN
MULTIPLE RADIO FACILITIES — NDB-RNG PARIS

CONTROLLED AIRSPACE

ADIZ — CONUS ADIZ

VISUAL AIDS AND OBSTRUCTIONS

Obstruction — 1108 (259)
1108–Elevation of obstruction top, above sea level.
(259)–Elevation of obstruction top, above ground level.

Group obstruction
Radio facility obstruction
Power transmission line
Visual ground sign — M
Aero light; Marine light

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

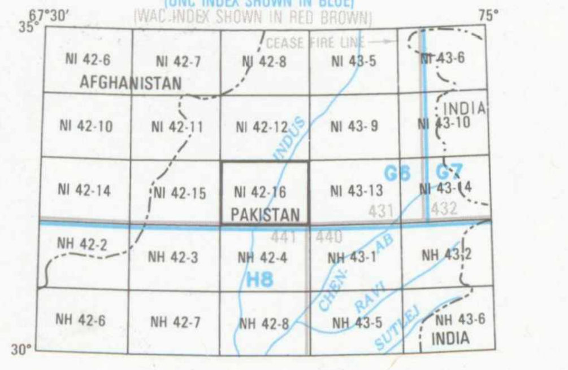
CAUTION
AIR INFORMATION CURRENT THROUGH
3 APRIL 2000
Consult NOTAMS and Flight Information Publications for the latest air information, the NIMA Aeronautical Chart Updating Manual or MOD (U.K.) Aeronautical Chart Amendment document, for other chart revision information.

MAGNETIC VARIATION FOR 1995 IS APPROXIMATELY 1°45' EAST OVER THE ENTIRE AREA
(Annual rate of change, 1' increase)

ATTENTION
THIS CHART CONTAINS MAXIMUM ELEVATION FIGURES (MEF)
The Maximum Elevation Figures shown in quadrangles bounded by ticked 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 feature in each quadrangle, including terrain and obstructions (trees, towers, antennas, etc.).

EXAMPLE: 12,500 feet — 12[5]

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



SCALE 1:250,000
MIĀNWĀLI, PAKISTAN

SERIES 1501 AIR
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Prepared and published by the National Imagery and Mapping Agency. Compiled March 1998.

MAP INFORMATION AS OF 1996

JOINT OPERATIONS GRAPHIC (AIR)

SCALE 1:250,000

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

COORDINATE CONVERSION WGS 84 TO INDIAN
Geographic: Add 1.9" Long., Add 1.1" Lat.

FOR REFERENCING IN OVERLAP AREAS REFER TO THE ADJOINING GRAPHIC

500,000 YARD (Small Letter) and 100,000 YARD (Large Letter) SQUARE IDENTIFICATIONS	TO GIVE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 1000 YARDS	
mX mY mZ / RC RD RE (330 340, 100)	SAMPLE POINT: KANAURI	
	1. Read letters identifying 100,000 yard square in which the point lies:	C
	2. Locate first VERTICAL grid line or tick to LEFT of point and read LARGE figure value:	6
	Estimate tenths from grid tick to point:	1
	3. Locate first HORIZONTAL grid line or tick BELOW point and read LARGE figure value:	5
	Estimate tenths from grid tick to point:	1
IGNORE the SMALLER figures of any grid number; these are for finding the full coordinates. Use ONLY the LARGER figure of the grid number; example: 9[5]0000	SAMPLE REFERENCE:	C6151
	If reporting beyond 500,000 yards prefix with 500,000 Yard Square Identification, as:	RC6151

NIMA 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 BLACK.

SAMPLE 10,000 METER GRID SQUARE — Sample point

100,000m SQUARE IDENTIFICATION — See Body of Map

GRID ZONE DESIGNATION — 42S

SAMPLE 1,000 METER REFERENCE

1. Read letters identifying the 100,000 meter square in which the point lies:	AB
2. Read large number labeling the VERTICAL grid line left of point:	1
Estimate tenths (1,000 meters) from grid line to point:	2
3. Read large number labeling the HORIZONTAL grid line below point:	3
Estimate tenths (1,000 meters) from grid line to point:	4
Example:	AB1234
WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA IN WHICH THE POINT LIES, PREFIX THE GRID ZONE DESIGNATION. Example:	42SAB1234

CONTOUR INTERVAL APPROXIMATELY 165 FEET
WITH SUPPLEMENTARY CONTOURS AT APPROXIMATELY 85 FEET

BLUE NUMBERED LINES INDICATE THE 10,000 METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 42, WORLD GEODETIC SYSTEM 1984 ELLIPSOID.
BLACK NUMBERED TICKS INDICATE THE 10,000 YARD UNIVERSAL INDIAN GRID ZONE IIA, EVEREST ELLIPSOID.

USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NIMA OPERATIONAL HELP DESK: 1-800-455-0899; COMMERCIAL 314-263-4864; DSN 693-4864; OR WRITE TO: DIRECTOR, NATIONAL IMAGERY AND MAPPING AGENCY, ATTN.: ES, MAIL STOP L-88, 4600 SANGAMORE ROAD, BETHESDA, MD 20816-5003.

CONVERSION OF ELEVATIONS

FEET	METERS	FEET	METERS
1000	305	10000	3048
900	274	9000	2743
800	244	8000	2438
700	213	7000	2134
600	183	6000	1829
500	152	5000	1524
400	122	4000	1219
300	91	3000	914
200	61	2000	610
150	46	1500	457
100	31	1000	305

GLOSSARY

Algad	intermittent stream, stream
Barrage	dam
Nāla	abandoned watercourse, stream, intermittent stream
Province	first-order administrative division
Rūd	stream
Rūd	intermittent stream
Wāh	stream
Wāh	intermittent stream

GEOREF
BASIC 15° QUADRANGLE
SJ
33° 32° LC MC 70°30' 71° 72°

ELEVATION TINTS
FEET 2955 660 330

RELIABILITY OF THIS GRAPHIC
(as determined by standard practices)

PLOTTING ACCURACY 90° ASSURANCE	AREA I	AREA II	AREA III
Horizontal	within 425 ft.	within 425 ft.	within 425 ft.
Contours	115 ft.	85 ft.	115 ft.
GRAPHIC FEATURE	DATE OF INFORMATION		
	AREA I	AREA II	AREA III
All other features	1993	1995	1996

Horizontal Datum: World Geodetic System 1984
Vertical Datum: Mean Sea Level
Transverse Mercator Projection

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NOTES

Powerlines are shown except within populated place tints.
Other obstructions are shown if they are 200 feet or more above ground level.
See caution note.

On this graphic a lane is generally considered as being 8 to 16 feet (2.44 to 4.88 meters) in width.

BOUNDARY REPRESENTATION IS NOT NECESSARILY AUTHORITATIVE.

Alignment of all boundaries is approximate.

Road classification should be referred to with caution.

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