SERIES 1501 AIR
SHEET NG 37-8
EDITION 1

SERIES 1501 COMPANION SHEET IS EDITION 1

POPULATED PLACES
- Over 100,000: ZURAYGHIṬ
- 50,000 to 100,000: ZARGHAṬ
- 10,000 to 50,000: Al 'Uqaylāt
- 2,000 to 10,000: Ghazzālah
- Less than 2,000: Ghaqwar

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 (3 LANES)
  - More than two lanes wide
  - Two lanes wide
  - One lane wide
- Fair or dry weather, loose surface
- Cart track
- Footpath, trail
- Route marker (55)

RAILROADS
- Normal gauge, single track 1.44m (4'8½"); Double track
- Narrow gauge

BOUNDARIES
- International
- First-order administrative

OTHER FEATURES
- Area name (YEARD)
- Mine or quarry
- Campsite; Ruins; Watermill
- School; Church; Landmark
- Mosque; Moslem shrine
- Small reservoir or cistern
- Well; Perennial; Intermittent; Spring
- Underground aqueduct with shafts
- Sabkha or Dry lake; Intermittent lake
- Single line intermittent stream; Wadi
- Marsh or swamp; Land subject to inundation
- Mound; Levee
- Mudflat; Distorted surface
- Sand, flat or rolling; Sand dunes
- Horizontal control point

VEGETATION
- Woods, brushwood; Scattered trees (NONE)
- Orchard, vineyard; Scrub (NONE NONE)

HYDROGRAPHY
- Rocks, uncovering or awash
- Exposed wreck
- Limit of danger; Reef
- Foreshore flat
- Depth curve; Lighthouse

TERRAIN ELEVATIONS
- Spot elevation, normal, critical *646 *840
- HIGHEST KNOWN elevation is 4616 feet at the following coordinates:
- Geographic 26°57'N., 41°48'E.
- Grid GK7885
- ± following elevation value indicates accuracy is not within 100 feet

AERODROMES (Military or Civil)
- Runway pattern known (EDNA/50/s 725)
- Field limits and runway pattern unknown
- HELIPORT (H)

RADIO FACILITIES
- VOR VORTAC
- TACAN VOR/DME
- RADIO RANGE LF/MF (RNG HURN)
- MULTIPLE RADIO FACILITIES (NDB RNG PARIS)

CONTROLLED AIRSPACE
- ADIZ (ATLANTIC 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 8 APRIL 1991

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

MAGNETIC VARIATION FOR 1990 IS APPROXIMATELY 2°30' EAST OVER THE ENTIRE AREA
(Annual rate of change, no change)

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 12⁵

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

NH 37-14	NH 37-15	NH 37-16	NH 38-13	NH 38-14
NG 37-2	NG 37-3	NG 37-4	NG 38-1	NG 38-2
NG 37-6	NG 37-7	NG 37-8	NG 38-5	NG 38-6
NG 37-10	NG 37-11	NG 37-12	NG 38-9	NG 38-10
NG 37-14	NG 37-15	NG 37-16	NG 38-13	NG 38-14

M-05 M-06 446 445 SAUDI ARABIA 545 546 RED SEA

LIMITED DISTRIBUTION

Distribution authorized to the Department of Defense, U.S. DOD contractors and to U.S. Government Agencies supporting DOD functions (by authority of the Director, Defense Mapping Agency, 30 May 1990). Other requests shall be referred to Headquarters, DMA, ATTN: SOP. Destroy as "For Official Use Only."

SCALE 1:250,000
AL GHAZĀLAH, SAUDI ARABIA

SERIES 1501 AIR
SHEET NG 37-8
EDITION 1

SERIES 1501 COMPANION SHEET IS EDITION 1

Prepared and published by the Defense Mapping Agency Aerospace Center, St. Louis, Missouri.
Compiled April 1991.

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

DMA IS UPDATING THE MILITARY GRID REFERENCE SYSTEM. SINCE THERE ARE NO SIGNIFICANT CHANGES IN THE GRID VALUES AT THIS SCALE, CONVERSION VALUES ARE PROVIDED IN LIEU OF SHOWING ADDITIONAL GRIDS.

SAMPLE 10,000 METER GRID SQUARE

Sample point

100,000m SQUARE IDENTIFICATION
See Body of Map

GRID ZONE DESIGNATION
37R

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. Estimate tenths (1,000 meters) from grid line to point: 1 2
3. Read large number labeling the HORIZONTAL grid line below point. Estimate tenths (1,000 meters) from grid line to point: 3 4

Example: AB1234

WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA IN WHICH THE POINT LIES, PREFIX THE GRID ZONE DESIGNATION.

Example 37RAB1234

CONVERSION FROM UTM GRID, WORLD GEODETIC SYSTEM SPHEROID, WORLD GEODETIC SYSTEM DATUM TO UTM GRID, INTERNATIONAL SPHEROID, EUROPEAN DATUM IS +31 METERS EASTING AND +177 METERS NORTHING

ELEVATIONS IN FEET

JOINT OPERATIONS GRAPHIC (AIR)

SCALE 1:250,000

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

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 37, WORLD GEODETIC SYSTEM ELLIPSOID.

USERS SHOULD REFER CORRECTIONS, ADDITIONS AND COMMENTS FOR IMPROVING THIS PRODUCT TO:
(US Users): DIRECTOR, DEFENSE MAPPING AGENCY, ATTN: PR, 8613 LEE HIGHWAY, FAIRFAX, VA 22031-2137.
(UK Users): DIRECTORATE OF MILITARY SURVEY, MINISTRY OF DEFENCE, ELMWOOD AVENUE, FELTHAM, MIDDLESEX, ENGLAND TW13 7AE.

WARNING

FLYING OVER SAUDI ARABIAN TERRITORY WITHOUT PRIOR PERMISSION AND/OR FLYING OUTSIDE ROUTES IS STRICTLY PROHIBITED.

ELEVATIONS IN FEET

GLOSSARY

Jabal	mountain
Jibāl	hills, mountains
Qā'	basin, mudflat
Rujar	wadi
Sha'īb	wadi
Wādī	wadi

GEOREF BASIC 15° QUADRANGLE

QH
UM MM
27° 26° 40°30' 41° 42°

ELEVATION TINTS

FEET 2625

RELIABILITY OF THIS GRAPHIC
(as determined by standard practices)

PLOTTING ACCURACY 90° ASSURANCE	AREA I	AREA II	AREA III
Horizontal Contours	within 420 ft. 80 ft.	within	within
GRAPHIC FEATURE	DATE OF INFORMATION AREA I	AREA II	AREA III
Man made features	1987		
Hydrographic	1987		
Contours	1990		

Road classification should be referred to with caution.

Horizontal Datum: World Geodetic System
Vertical Datum: Mean Sea Level
Transverse Mercator Projection
Datum Conversion from World Geodetic System to European Datum is +4.4" Latitude and +.9" Longitude.

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 feet (2.5 meters) in width.

Lithographed by DMAAC 11-94

DMA STOCK NO. 1501ANG3708

ED NO. 001