SERIES 1501 AIR
SHEET NH 38-15
EDITION 6

SERIES 1501 COMPANION SHEET IS EDITION 4-GSGS

POPULATED PLACES
- Over 100,000 ..... DIMASHQ (DAMAS)
- 50,000 to 100,000 ..... AL ḤUDAYDAH
- 10,000 to 50,000 ..... 'Ajmān
- 2,000 to 10,000 ..... Dār al Amīr
- Less than 2,000 ..... Khaysā

ROADS
- Dual highway (4 LANES DUAL)
- All weather, hard surface (4 LANES)
  - More than two lanes wide
  - 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 (50)

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

BOUNDARIES
- International
- De Facto

OTHER FEATURES
- Area name ..... AL BAYDĀ'
- 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; Gravel
- Horizontal control point

VEGETATION
- Woods, brushwood; Scattered trees
- Cultivation; Scrub (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 1529 feet at the following coordinates:
  - Geographic ..... 28°04'N. 45°00'E.
  - Grid NS0003

± following elevation value indicates accuracy is not within 100 feet

AERODROMES (Military or Civil)
- Runway pattern known (EDNA/50/5 725)
- Field limits and runway pattern unknown
- HELIPORT

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
22 JANUARY 1991

Consult NOTAMS and Flight Information Publications for the latest air information; the DMA 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 ENTIRE AREA
(Annual rate of change, no change)

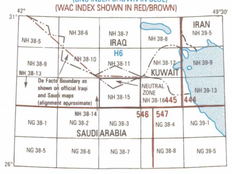
ATTENTION

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
Boundary Representation is Not Necessarily Authoritative
(ONC INDEX SHOWN IN BLUE)
(WAC INDEX SHOWN IN RED/BROWN)



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SCALE 1:250,000
HAFAR AL BĀṬIN, SAUDI ARABIA; NEUTRAL ZONE

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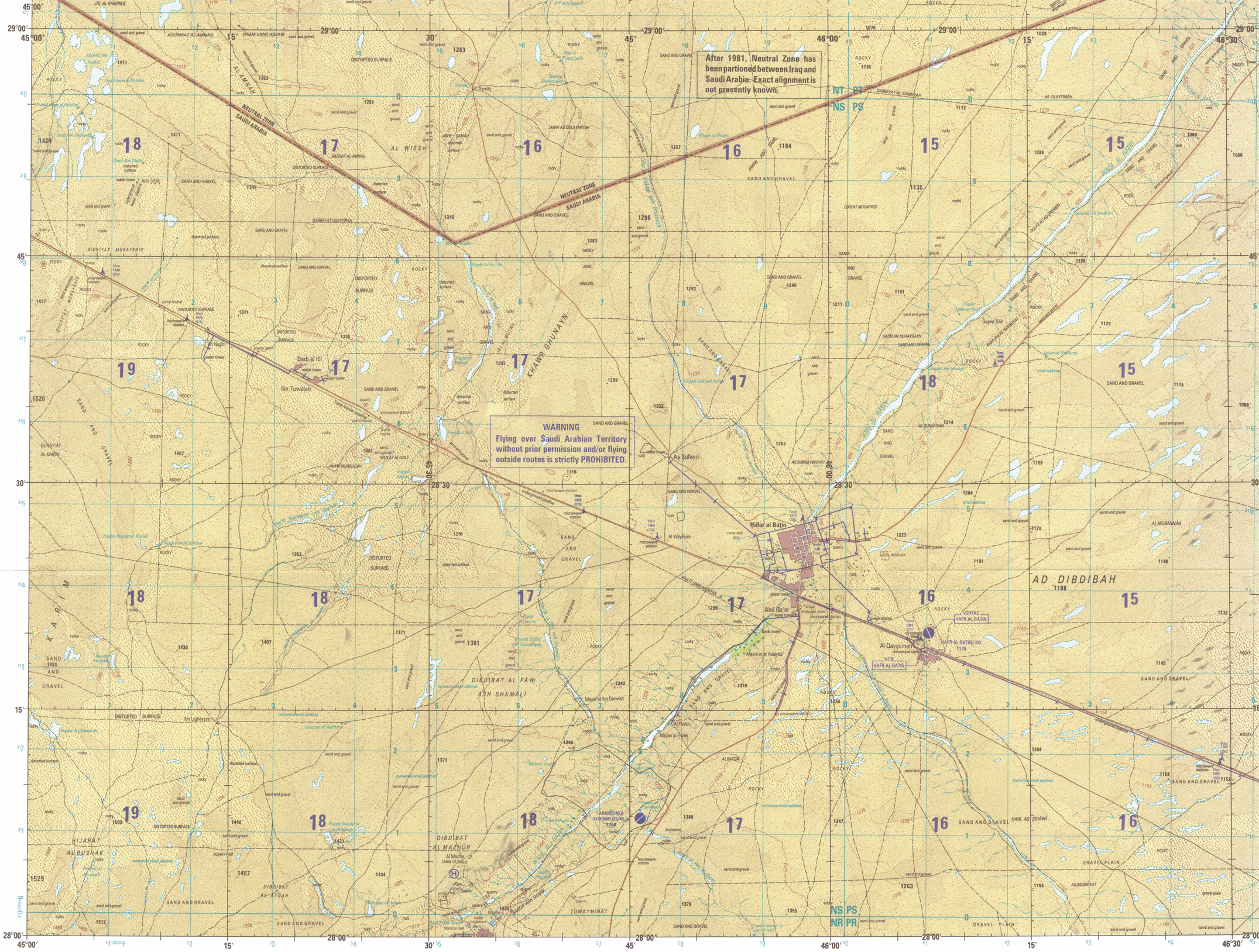

Prepared and published by the Defense Mapping Agency Aerospace Center, St. Louis, Missouri
Compiled January 1991.

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

ELEVATIONS IN FEET

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 1,000 METER REFERENCE

SAMPLE 10,000 METER GRID SQUARE
Example point
10,000m SQUARE IDENTIFICATION
See Body of Map
GRID ZONE DESIGNATION
38R

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

Example: AB1234

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

Example: 38RAB3854

CONVERSION FROM UTM GRID, WGS SPHEROID, WGS DATUM TO UTM GRID, INTERNATIONAL SPHEROID, EUROPEAN DATUM IS +13 METERS EASTING AND +176 METERS NORTHING.

JOINT OPERATIONS GRAPHIC (AIR)

SCALE 1:250,000

5 0 5 10 15 20 Statute 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 38, WORLD GEODETIC SYSTEM ELLIPSOID.

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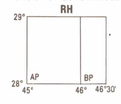
ELEVATIONS IN FEET

GLOSSARY

Abraq	mountain or rocky hill with sandy slope
'Ayn	spring
Bir; pl. Ābār; Qalīb	well
Birkah(s)	cistern, pond or reservoir
Darb	road or trail
Dawḥah(s)	bay
Qā'; pl. Qā'an, Qulaw'; pl. Qulaw'āt	small ridge
Faydah(s)	land subject to inundation
Hadbah(s)	plateau
Ḥamrah(s)	field of lava and volcanic ejecta
Ḥasm; pl. Ḥusūm	hill
Hijr	fort
'Iddī	perennial well
'Irq; pl. 'Urūq	long linear sand ridge or dunes
Jabal; pl. Jibāl	mountain hill
Jaww	depression
Jazīrah(s); pl. Jazā'ir	island
Khabrah(s)	mud flat and silt surface
Markaz	(police) post
Mintaqah(s)	province, district or area
Mishash	waterhole
Qā	mud flat
Qarn; pl. Qurūn	horn
Ra's	headline, cape
Sabkhah(s)	sabkha, dry lake (often salt)
Sadd	dam
Sha'b or Sh'ib	small rugged wadi or ravine
Tariq	dry watercourse
Wād	road or trail
Zawr	neck (of land)

GEOREF
BASIC 15° QUADRANGLE
RH



ELEVATION TINTS
FEET
660

RELIABILITY OF THIS GRAPHIC
(as determined by standard practices)

PLOTTING ACCURACY 90% ASSURANCE	
Horizontal	Within 425 ft.
Contours	Within 85 ft.

GRAPHIC FEATURE	DATE OF INFORMATION
Man-made features	1990
Contours	1991
All other features	1990

Horizontal Datum: WGS 84
Vertical Datum: Mean Sea Level
Transverse Mercator Projection
Datum Conversion from WGS 84 Datum to European Datum is +4.3" Latitude and + 0.4" 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.
BOUNDARY REPRESENTATION IS NOT NECESSARILY AUTHORITATIVE.
ALIGNMENT OF ALL BOUNDARIES IS APPROXIMATE.

Lithographed by DMAAC

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DMA STOCK NO. 150IAMH3815