| | |
|---|---|
| SERIES | ONC |
| SHEET | K-9 |
| EDITION | 8 |

# ONC K-9

## ELEVATIONS IN FEET

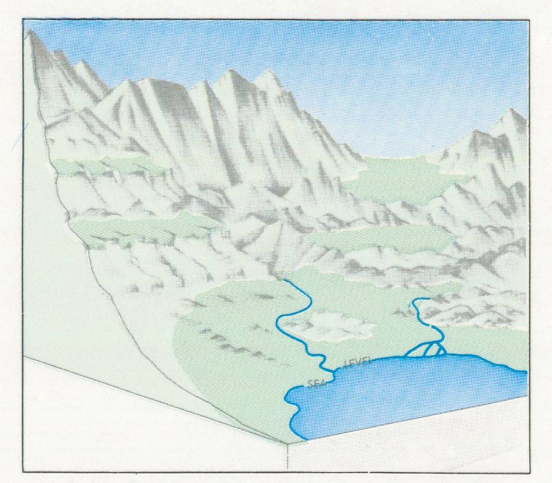
ALL ELEVATION VALUES (AERONAUTICAL, RELIEF AND HYDROGRAPHIC) ARE BASED ON MEAN SEA LEVEL.

## LEGEND

### RELIEF PORTRAYAL

Elevations are in feet. HIGHEST TERRAIN elevation is:
7200 feet
located at 16°10′N 99°02′E

TERRAIN CHARACTERISTIC TINTS



Green color indicates flat or relatively level terrain regardless of altitude above sea level

### CONTOURS

Basic interval 1000 feet.
Intermediate contour shown only at 500 feet.
Auxiliary contour shown only at 250 feet.

### SPOT ELEVATIONS

| | |
|---|---|
| Accurate elevations | 0000 |
| (Elevations are accurate to within 100 feet.) | |
| Questionable elevations | ×0000 |
| Location Undetermined | 0000 |
| (Vertical accuracy unknown) | |
| Critical elevation | 0000 |
| Lake elevation | 0000 |
| Stream elevation | 0000 |

### CULTURE

| | | | |
|---|---|---|---|
| Actual city outline | | Towns and villages (outlines unknown) | ▫ |
| Landmark feature (unillustrated) | ▪ranch | Dual lane roads | |
| Primary roads | | Secondary roads | |
| Single track R. R. | | Multiple track R. R. | |
| Lookout tower | ⊙ | Power transmission line | |

### PICTORIAL SYMBOLIZATION

A black square indicates location

## 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 ........ $12^5$

## AERONAUTICAL INFORMATION

### AERODROMES

| | |
|---|---|
| Major | NICA 700 |
| Major, runway pattern not available | ● ENZO/42 312 |

Major aerodromes portrayed have a hard surface runway length of 3000 feet or more. Runway patterns and 6000 feet diameter circle is shown at 1:500,000 scale. When runway pattern is not shown, the number following the name indicates length of the longest runway to the nearest hundred feet.

| | |
|---|---|
| Minor | ○ BIMO 190 |

### VERTICAL OBSTRUCTIONS

| | |
|---|---|
| Single | 961 (230) |
| Multiple | 961 (230) |
| Highest vertical obstruction within ticked lines of latitude and longitude | 1476 (686) |
| Radio facility obstruction | 961 (230) |

1476 – – Height of top above mean sea level (MSL)
(686) – – Height of top above ground level (AGL)

VERTICAL OBSTRUCTIONS SHOWN HAVE BEEN SELECTED FROM INFORMATION AVAILABLE AS OF DECEMBER 1987

All vertical obstructions 200 feet AGL and higher cannot be portrayed due to chart scale and feature density. In general, the highest obstruction in each 3 minute by 3 minute matrix (originating at full degree intersection) is shown; however, in areas of dense culture, this pattern is further reduced to enchance clarity.

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.

### RADIO FACILITIES

- ⊙ VHF OMNI RANGE (VOR)
- VORTAC
- TACAN
- ⊡ VOR DME
- ○ Other Facilities

### SPECIAL USE AIRSPACE

LFR45

Alert, Danger, Military Operations Area, Prohibited, Restricted or Warning Areas. Numbers indicate internationally recognized numerical identifications. Airspace limit line widths are reduced and/or dashed in areas of overlap for clarity only.

All Special Use Airspace is portrayed in the body of this chart with the following exception:
Those activated by NOTAM.

BUFFER ZONE

### VEGETATION

To assure legibility of significant relief, vegetation patterns are shown in relatively level areas only.

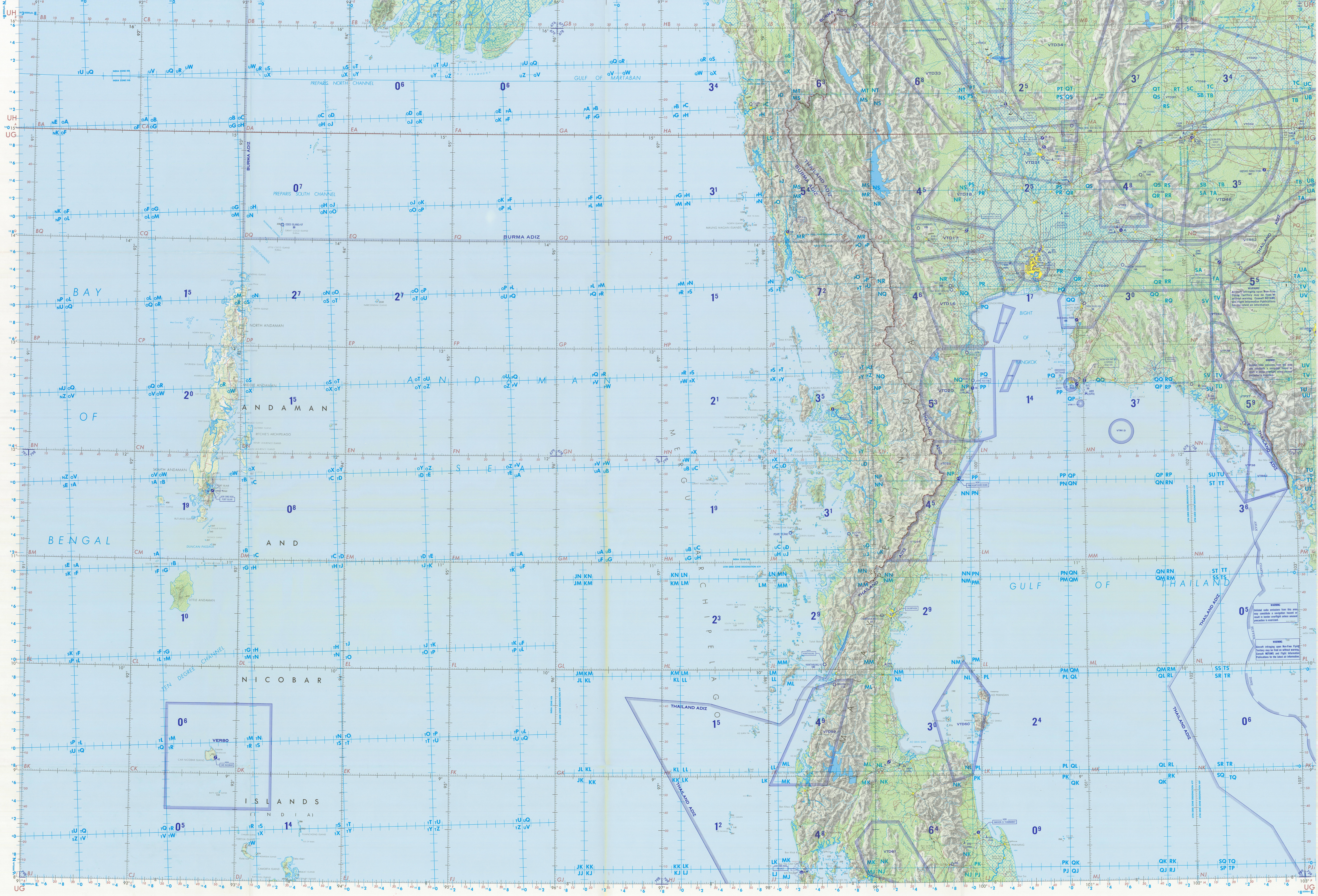
| | |
|---|---|
| Vegetation | ▨ |
| Clearings | ▨ |

### NOTES

The representation of international boundaries is not necessarily authoritative.

Delineation of, and/or terminology associated with, international boundaries have been changed since the last edition.

Civil users may purchase DMAAC products by ordering them from the following address:
DMA Combat Support Center (DMACSC)
ATTN: DDCP
Washington, DC 20315-0020


BAY OF BENGAL
ANDAMAN SEA
ANDAMAN AND NICOBAR ISLANDS (INDIA)
NORTH ANDAMAN
MIDDLE ANDAMAN
SOUTH ANDAMAN
LITTLE ANDAMAN
RITCHIE'S ARCHIPELAGO
PREPARIS NORTH CHANNEL
PREPARIS SOUTH CHANNEL
COCO CHANNEL
DUNCAN PASSAGE
TEN DEGREE CHANNEL
GREAT COCO ISLAND
COCO ISLAND/47
NARCONDAM ISLAND
CAR NICOBAR ISLAND
VERBO
TERESSA ISLAND
CAMORTA ISLAND
KATCHALL ISLAND
BOMPOKA ISLAND
TRINKAT ISLAND
NANCOWRY ISLAND
PORT BLAIR
GULF OF MARTABAN
MERGUI ARCHIPELAGO
BILAUKTAUNG RANGE
ISTHMUS OF KRA
MALAY PENINSULA
GULF OF THAILAND
BIGHT OF BANGKOK
BANGKOK
CHUMPHON
SURAT THANI
KO SAMUI
KO PHANGAN
KO PHUKET
PHUKET
NAKHON SI THAMMARAT
PAK PHANANG
RANONG
KAWTHAUNG
BURMA ADIZ
THAILAND ADIZ
ASIAN COASTAL BUFFER ZONE
VTD59
VTD60
VTD61
VTR13
WARNING
Unlisted radio emissions from this area may constitute a navigation hazard or result in border overflight unless unusual precaution is exercised.
WARNING
Aircraft infringing upon Non-Free Flying Territory may be fired on without warning. Consult NOTAMS and Flight Information Publications for the latest air information.
UTM GRID ZONE DESIGNATION 47P
UTM GRID ZONE DESIGNATION 48P
INDIA ZONE IIIB
INDIA ZONE IVB
91°
92°
93°
94°
95°
96°
97°
98°
99°
100°
101°
102°
103°
8°
9°
10°
11°
12°
13°
14°
15°
16°

# ONC K-9

ANDAMAN AND NICOBAR ISLANDS, BURMA
CAMBODIA, THAILAND

## SCALE 1:1,000,000

Prepared and published by the Defense Mapping Agency Aerospace Center, St. Louis, Missouri. Compiled May 1967. Revised December 1987. (Revision limited to aeronautical information and correction of all CHUM conditions.)

Lithographed By DMAAC 7-88

Lambert Conformal Conic Projection
Standard Parallels 9°20′ and 14°40′
Convergence Factor 0.20799

CAUTION
AIR INFORMATION CURRENT THROUGH 10 DECEMBER 1987
Consult NOTAMS and Flight Information Publications for the latest air-information; the DMA Aeronautical Chart Updating Manual or MOD (UK) Aeronautical Chart Amendment Document for other chart revision information.

MAGNETIC VARIATION THROUGHOUT CHART AREA FOR 1985 IS APPROXIMATELY 1°00′ WEST
(Annual Rate of Change–5′ Increase)

STOCK NO. ONCXXK09

| | |
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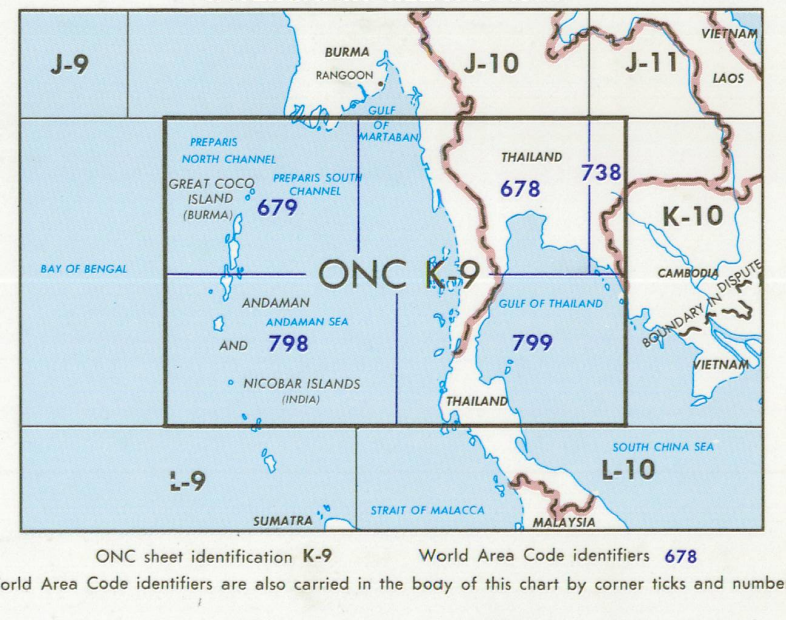
### INTERCHART RELATIONSHIP


J-9
J-10
J-11
K-10
L-9
L-10
ONC K-9
679
678
738
798
799
BURMA
RANGOON
VIETNAM
LAOS
THAILAND
CAMBODIA
BOUNDARY IN DISPUTE
BAY OF BENGAL
GULF OF MARTABAN
PREPARIS NORTH CHANNEL
PREPARIS SOUTH CHANNEL
GREAT COCO ISLAND (BURMA)
ANDAMAN
ANDAMAN SEA
AND
NICOBAR ISLANDS (INDIA)
GULF OF THAILAND
SOUTH CHINA SEA
STRAIT OF MALACCA
SUMATRA
MALAYSIA

ONC sheet identification K-9 World Area Code identifiers 678
World Area Code identifiers are also carried in the body of this chart by corner ticks and numbers.

ELEVATIONS IN FEET

CONVERSION OF ELEVATIONS

| FEET (Thousands) | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METERS (Thousands) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | |

ELEVATIONS IN FEET

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAUTICAL MILES | 5 | 0 | 25 | 50 | 75 | 100 | 125 | 150 | | | | | |
| STATUTE MILES | 5 | 0 | 25 | 50 | 75 | 100 | 125 | 150 | 175 | | | | |
| KILOMETERS | 5 | 0 | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 |

# OPERATIONAL NAVIGATION CHART
# 1:1,000,000

ELEVATIONS IN FEET

USERS SHOULD REFER CORRECTIONS, ADDITIONS AND COMMENTS FOR IMPROVING THIS PRODUCT TO:
(US Users): Director, Defense Mapping Agency Aerospace Center, 3200 South Second Street, St. Louis, Missouri, 63118-3399
ATTN: QA
(UK Users): Directorate of Military Survey, Ministry of Defence, London.

### GLOSSARY

| | |
|---|---|
| Ao | bay |
| Ban | village |
| Bung | lake |
| Chaung | river |
| Huai | river |
| Khao | mountain |
| Khaôh | island |
| Khlong | stream |
| Ko | island |
| Kyun | island |
| Laem | point |
| Lam Nam | river |
| Mae Nam | river |
| Phumĭ | village |
| Stŏeng | river |
| Taung | mountain(s) |
| Thale | bay |

WORLD GEOGRAPHIC REFERENCE SYSTEM (RED–BROWN)

SAMPLE AREA: REFERENCE TO WITHIN ONE MINUTE

SAMPLE POINT: KOLA-RUE

Read GEOREF values from left to right and from bottom to top.

| | |
|---|---|
| 1. Read letters identifying basic 15° quadrangle in which the point lies: | UG |
| 2. Read letters identifying 1° quadrangle in which the point lies: | DJ |
| 3. Locate the first MINUTE tick of LONGITUDE to LEFT of point and determine GEOREF values: | 08 |
| 4. Locate first MINUTE tick of LATITUDE BELOW point and determine GEOREF value: | 12 |
| SAMPLE REFERENCE | UGDJ0812 |

BLUE NUMBERED LINES INDICATE 100,000 METERS, TICKS 10,000 METERS UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 47P, 48P, 47Q, 48Q.

SAMPLE AREA: TO REFERENCE TO NEAREST 1,000 METERS

SAMPLE POINT: BAN HUA WAI

| | |
|---|---|
| 1. Read letters identifying 100,000 meter square in which the point lies: | PS |
| 2. Locate first VERTICAL grid line or tick to LEFT of point and determine LARGE figure value: | 4 |
| Estimate tenths from grid line to point: | 1 |
| 3. Locate first HORIZONTAL grid line or tick BELOW point and determine LARGE figure value: | 9 |
| Estimate tenths from grid line to point: | 8 |
| SAMPLE REFERENCE: | PS4198 |
| If reporting beyond 9° N.S. or 18° E.W., prefix Grid Zone Designation, as: | 47PS4198 |

COMPLETE GRID VALUES ARE SHOWN TO DETERMINE FULL COORDINATES, REMAINING VALUES IN BORDER AREA REFLECT OMISSION OF LAST FOUR DIGITS.

BLUE NUMBERED LINES INDICATE 100,000 INDIAN YARDS, TICKS 10,000 INDIAN YARDS BRITISH GRID, INDIA ZONE IIIB, IVB.

SAMPLE AREA: TO REFERENCE TO NEAREST 1,000 YARDS

SAMPLE POINT: MINDAR

| | |
|---|---|
| 1. Read letter identifying 100,000 yard square in which the point lies: | 0 |
| 2. Locate first VERTICAL grid line or tick to LEFT of point and determine LARGE figure value: | 3 |
| Estimate tenths from grid line to point: | 4 |
| 3. Locate first HORIZONTAL grid line or tick BELOW point and determine LARGE figure value: | 0 |
| Estimate tenths from grid line to point: | 9 |
| SAMPLE REFERENCE: | 03409 |
| If reporting beyond 500,000 yards, prefix with 500,000 yard Square Identification, as: | P03409 |

COMPLETE GRID VALUES ARE SHOWN TO DETERMINE FULL COORDINATES, REMAINING VALUES IN BORDER AREA REFLECT OMISSION OF LAST FOUR DIGITS

Entire British India Zone Grids and UTM Grid falls within the Everest Spheroid.

# ONC K-9

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