SERIES	ONC
SHEET	K-10
EDITION	11

ONC K-10

ELEVATIONS IN FEET

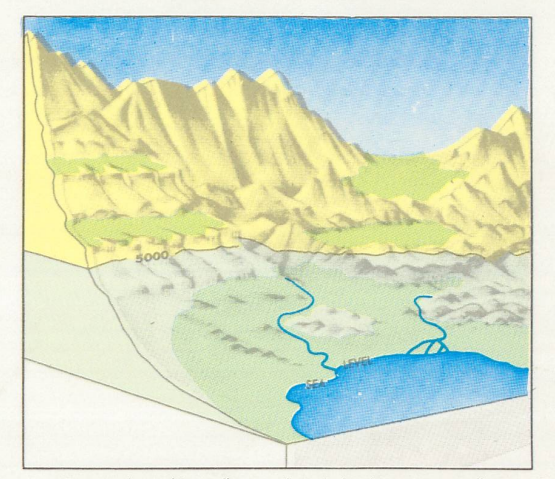
ALL ELEVATION VALUES (AERONAUTICAL, RELIEF AND HYDROGRAPHIC) ARE BASED ON MEAN SEA LEVEL.

LEGEND

RELIEF PORTRAYAL

Elevations are in feet. HIGHEST TERRAIN elevation is:
8523 feet
located at *15°04'N, 107°59'E*

TERRAIN CHARACTERISTIC TINTS


5000
SEA LEVEL

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

CONTOURS

Basic interval 1000 feet

Intermediate contours shown only at 250 and 500 feet in relatively level areas.

Auxiliary contours shown at 100 feet.

Dashed contours indicate approximate relief.

SPOT ELEVATIONS

Accurate elevations (Elevations are accurate to within 100 feet.)	.0000
Questionable elevations (None shown)	×0000
Location Undetermined (Vertical accuracy unknown)	.0000
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 SEPTEMBER 1988

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 enhance 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(s):
Those activated by NOTAM.

BUFFER ZONE

VEGETATION

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

Vegetation	🟩
Clearings	🟩

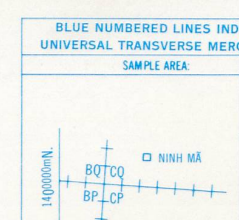
NOTES

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

The representation of boundaries is not necessarily authoritative.

BLUE NUMBERED LINES INDICATE 100,000 METERS, TICKS 10,000 METERS
UNIVERSAL TRANSVERSE MERCATOR GRID ZONE 48P, 48Q, 49P, 49Q, 50P, 50Q

SAMPLE AREA:


NINH MÃ
BQ
CQ
BP
CP
1400000mN.
300000mE.

TO REFERENCE TO NEAREST 1,000 METERS

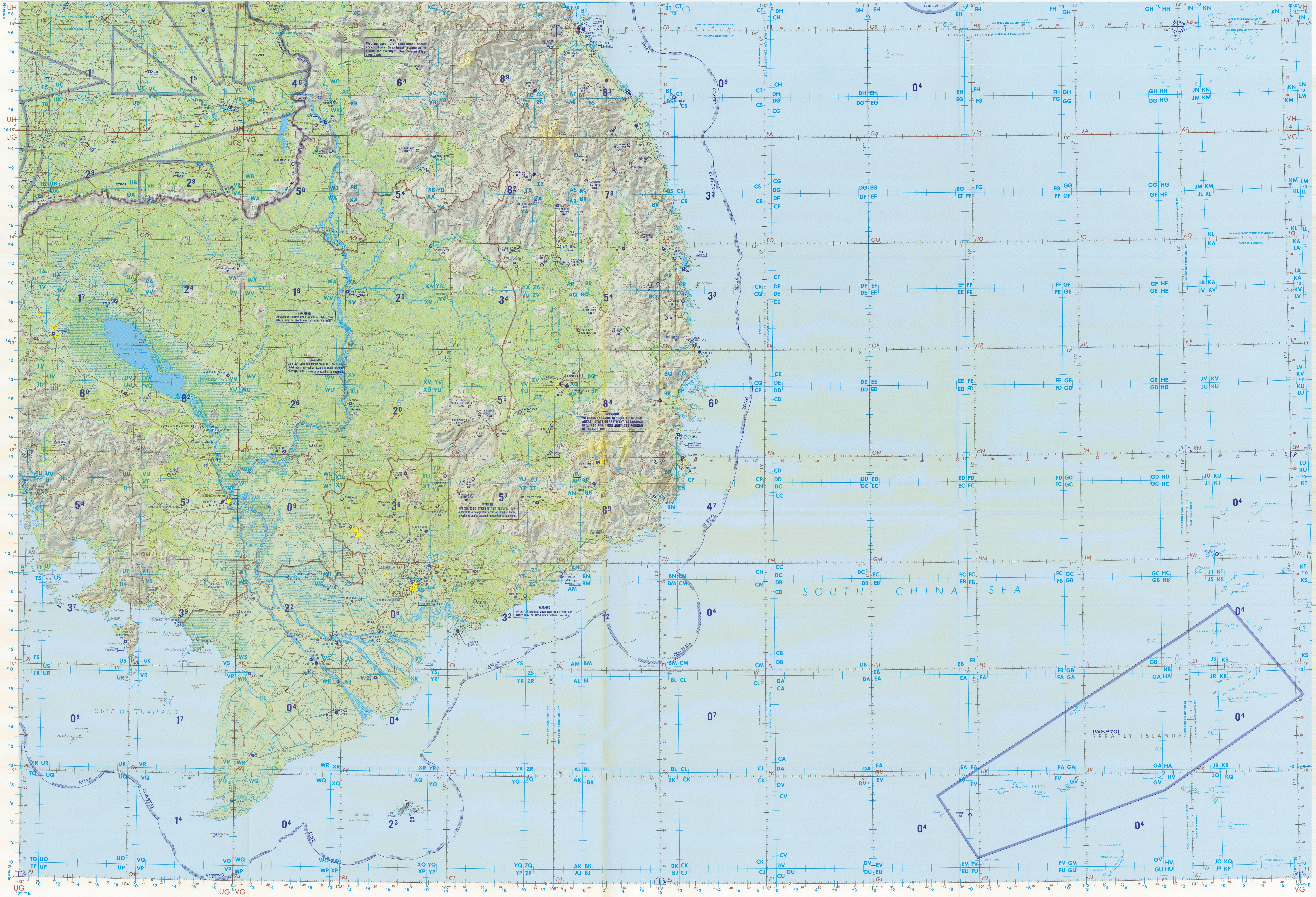
SAMPLE POINT: NINH MÃ

1. Read letters identifying 100,000 meter square in which the point lies:	CQ		
2. Locate first VERTICAL grid line or tick to LEFT of point and determine LARGE figure value: Estimate tenths from grid line to point:		2	1
3. Locate first HORIZONTAL grid line or tick BELOW point and determine LARGE figure value: Estimate tenths from grid line to point:		1	5
SAMPLE REFERENCE:	CQ2115		
If reporting beyond 9° N.S. or 18° E.W., prefix Grid Zone Designation, as:	49PCQ2115		

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

Civil users may purchase DMAAC products by ordering them from the following address:

DMA Combat Support Center (DMACSC)
Attn; DDCP
Washington, DC 20315-0020


UH
UG
VH
VG
UG VG
THAILAND ADIZ
THAILAND
LAOS
CAMBODIA
VIETNAM
GULF OF THAILAND
SOUTH CHINA SEA
SPRATLY ISLANDS
(WSP70)
(VHP22)
PARACEL ISLANDS
MACCLESFIELD BANK
ASIAN COASTAL BUFFER ZONE
MOUTHS OF THE MEKONG
BOENG TONLE SAB
PHNOM PENH
HOCHIMINH CITY
DA NANG
QUI NHON
NHA TRANG
CAM RANH BAY
PHAN THIET
VUNG TAU
CON SON
PAKSE
UBON RATCHATHANI
SIEM REAP
BATTAMBANG
KAMPONG SAOM
KAMPOT
CAN THO
DALAT
PLEIKU
KONTUM
BAN ME THUOT CITY
TUY HOA
PHU CAT
DAO PHU QUOC
ILES CATWICK
THITU REEFS
PAGASA/42
LONDON REEFS
SPRATLY 10
WARNING
Vietnam/Laos are designated special areas. State Department clearance required for overflight. See Foreign Clearance Guide.
WARNING
Aircraft infringing upon Non-Free Flying Territory may be fired upon without warning.
WARNING
Unlisted radio emissions from this area may constitute a navigation hazard or result in border overflight unless unusual precaution is exercised.
WARNING
VIETNAM/LAOS ARE DESIGNATED SPECIAL AREAS. STATE DEPARTMENT CLEARANCE REQUIRED FOR OVERFLIGHT. SEE FOREIGN CLEARANCE GUIDE.
WARNING
Aircraft infringing upon Non-Free Flying Territory may be fired upon without warning.
UTM GRID ZONE DESIGNATION 48Q
UTM GRID ZONE DESIGNATION 48P
UTM GRID ZONE DESIGNATION 49Q
UTM GRID ZONE DESIGNATION 49P
UTM GRID ZONE DESIGNATION 50Q
UTM GRID ZONE DESIGNATION 50P
EVEREST SPHEROID
WORLD GEODETIC SYSTEM 1984 SPHEROID
CLARK 1866 SPHEROID
103°
104°
105°
106°
107°
108°
109°
110°
111°
112°
113°
114°
115°
8°
9°
10°
11°
12°
13°
14°
15°
16°

ONC K-10

CAMBODIA, LAOS, PARACEL ISLANDS,
SPRATLY ISLANDS, THAILAND, VIETNAM

SCALE 1:1,000,000

Prepared and published by the Defense Mapping Agency Aerospace Center, St. Louis, Missouri. Compiled April 1968. Revised September 1988. (Revision limited to aeronautical information and correction of all CHUM conditions.)

Lithographed By DMAAC 4-89

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Lambert Conformal Conic Projection
Standard Parallels 9°20' and 14°40'
Convergence Factor .20799

CAUTION

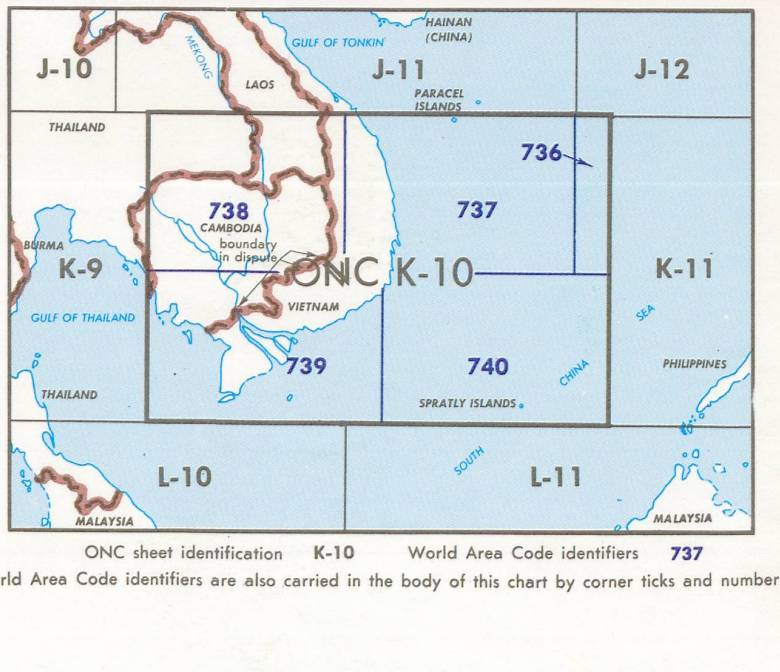
AIR INFORMATION CURRENT THROUGH 20 SEPTEMBER 1988
Consult NOTAMS and Flight Information Publications for the latest air information; the DMA Aeronautical Chart Updating Manual or MOD (UK) Aeronautical Chart Amendment Document for other chart revision information.

MAGNETIC VARIATION THROUGHOUT CHART AREA FOR 1985 IS APPROXIMATELY 0°15' WEST
(Annual Rate of Change 5' Increase)

STOCK NO. ONCXXK10

INTERCHART RELATIONSHIP

The representation of boundaries is not necessarily authoritative.

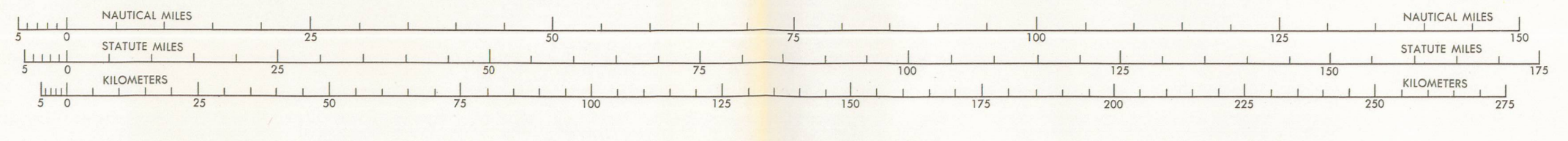

J-10
J-11
J-12
K-9
ONC K-10
K-11
L-10
L-11
736
737
738
739
740
HAINAN (CHINA)
GULF OF TONKIN
MEKONG
LAOS
PARACEL ISLANDS
THAILAND
CAMBODIA
boundary in dispute
BURMA
GULF OF THAILAND
VIETNAM
SPRATLY ISLANDS
SOUTH CHINA SEA
PHILIPPINES
MALAYSIA

ONC sheet identification K-10 World Area Code identifiers 737
World Area Code identifiers are also carried in the body of this chart by corner ticks and numbers.

ELEVATIONS IN FEET

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						

CONVERSION OF ELEVATIONS


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

OPERATIONAL NAVIGATION CHART

1:1,000,000

ELEVATIONS IN FEET

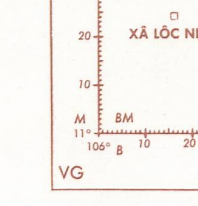
USERS SHOULD REFER CORRECTIONS, ADDITIONS AND COMMENTS FOR IMPROVING THIS PRODUCT TO:
(US Users): Director, Defense Mapping Agency Aerospace Center, 3200 South Second Street, St. Louis, Missouri. 63118-3399. ATTN: QA.
(UK Users): Directorate of Military Survey, Ministry of Defence, London.

GLOSSARY

Ấp	village	Mae Nam	river
Ban	village	Mũi	point
Boĕng	lake	Nam	river
Chaâk	bay	Phumĭ	village
Chaîne	mountain range	Prêk	stream
Chuŏr Phnum	mountain range	Qũan Dâo	islands
Cu Lao	island	Sóng	river
Dak	river	Stoĕng	river
Ea	stream	Thiu Khao Phnom	mountain range
Hòn	island	Tônlé	river
Huai	stream	Vũng	bay
Khaôh	island	Xã	village
Khŭm	village	Xe	river
Kinh	canal	Xóm	village
Krông	river	Ya	stream
Lam	stream		

WORLD GEOGRAPHIC REFERENCE SYSTEM (RED BROWN)

SAMPLE AREA


30'
30
20
10
XÃ LÔC NINH
M
11°
106°
B
BM
10
20
30
30'
VG

REFERENCE TO WITHIN ONE MINUTE

SAMPLE POINT: XÃ LÔC NINH

Read GEOREF values from left to right and from bottom to top.				
1. Read letters identifying basic 15° quadrangle in which the point lies:	VG			
2. Read letters identifying 1° quadrangle in which the point lies:		BM		
3. Locate first MINUTE tick of LONGITUDE to LEFT of point and determine GEOREF values:			16	
4. Locate first MINUTE tick of LATITUDE BELOW point and determine GEOREF value:				25
SAMPLE REFERENCE	VGBM1625			

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