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DOCS D5.354:ONC F-18 PCL MAP VERT FILE

PROPERTY OF U.S. GOVERNMENT

ONC F-18

EDITION 10

ELEVATIONS IN FEET

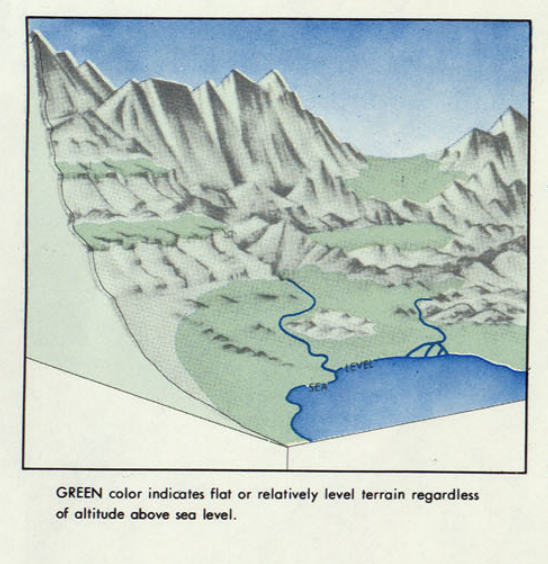
ALL ELEVATION VALUES (AERONAUTICAL, RELIEF AND HYDROGRAPHIC) ARE BASED ON MEAN SEA LEVEL.

LEGEND

RELIEF PORTRAYAL

Elevations are in feet. HIGHEST TERRAIN elevation is **3130** feet located at 40°17′N 78°33′W

TERRAIN CHARACTERISTIC TINTS



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

CONTOURS

Basic interval 1000 feet
Intermediate contours shown at 500 feet intervals.

SPOT ELEVATIONS

Accurate Elevations (Elevations are accurate to within 100 feet.)	• 0000
Questionable Elevations (Maximum possible vertical error in Canada 500 feet.)	× 0000
Location Undetermined (Vertical error varies from 100 feet to 500 feet.)	0000
Critical elevation	• 0000
Lake and stream elevation	0000

CULTURE

- Dual lane (divided) highway
- Secondary road
- Multiple track R.R.
- Single track R.R.
- Power transmission line
- Lookout towers

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	EDNA/42 920
Major, runway pattern not available	EDNA 920

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 ○

VERTICAL OBSTRUCTIONS

Single 1850 (1250) Multiple 1850 (1250)
Highest vertical obstruction within ticked lines of latitude and longitude 1850 (1250)

1850 – Height of top above mean sea level (MSL)
(1250) – Height of top above ground level (AGL)

VERTICAL OBSTRUCTIONS SHOWN HAVE BEEN SELECTED FROM INFORMATION AVAILABLE AS OF AUGUST 1991

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

MILITARY OPERATIONS AREA

MERAMAC

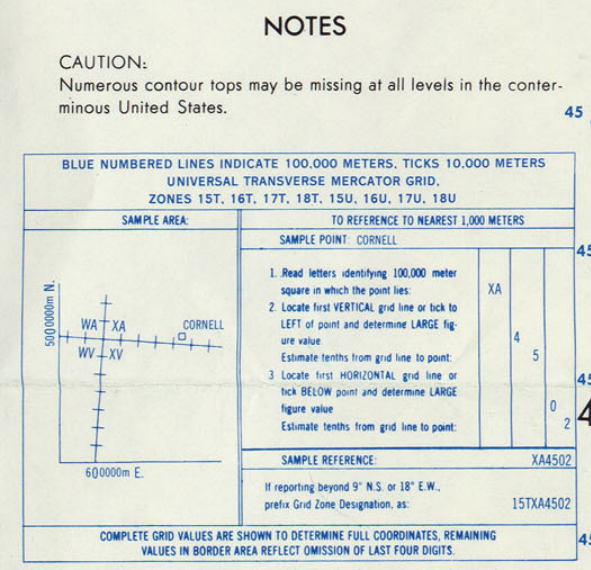
Alert, Danger, Military Operations Area, Prohibited, Restricted or Warning Areas. Numbers indicate internationally recognized numerical identifications. Airspace limit line widths are reduced and/or dashed in areas of overlap for clarity only.

All Special Use Airspace is portrayed in the body of this chart with the following exceptions:
(1) Those activated by NOTAM
(2) Those in Canada on Occasional basis.

NOTES

CAUTION:
Numerous contour tops may be missing at all levels in the conterminous United States.

BLUE NUMBERED LINES INDICATE 100,000 METERS, TICKS 10,000 METERS
UNIVERSAL TRANSVERSE MERCATOR GRID,
ZONES 15T, 16T, 17T, 18T, 15U, 16U, 17U, 18U

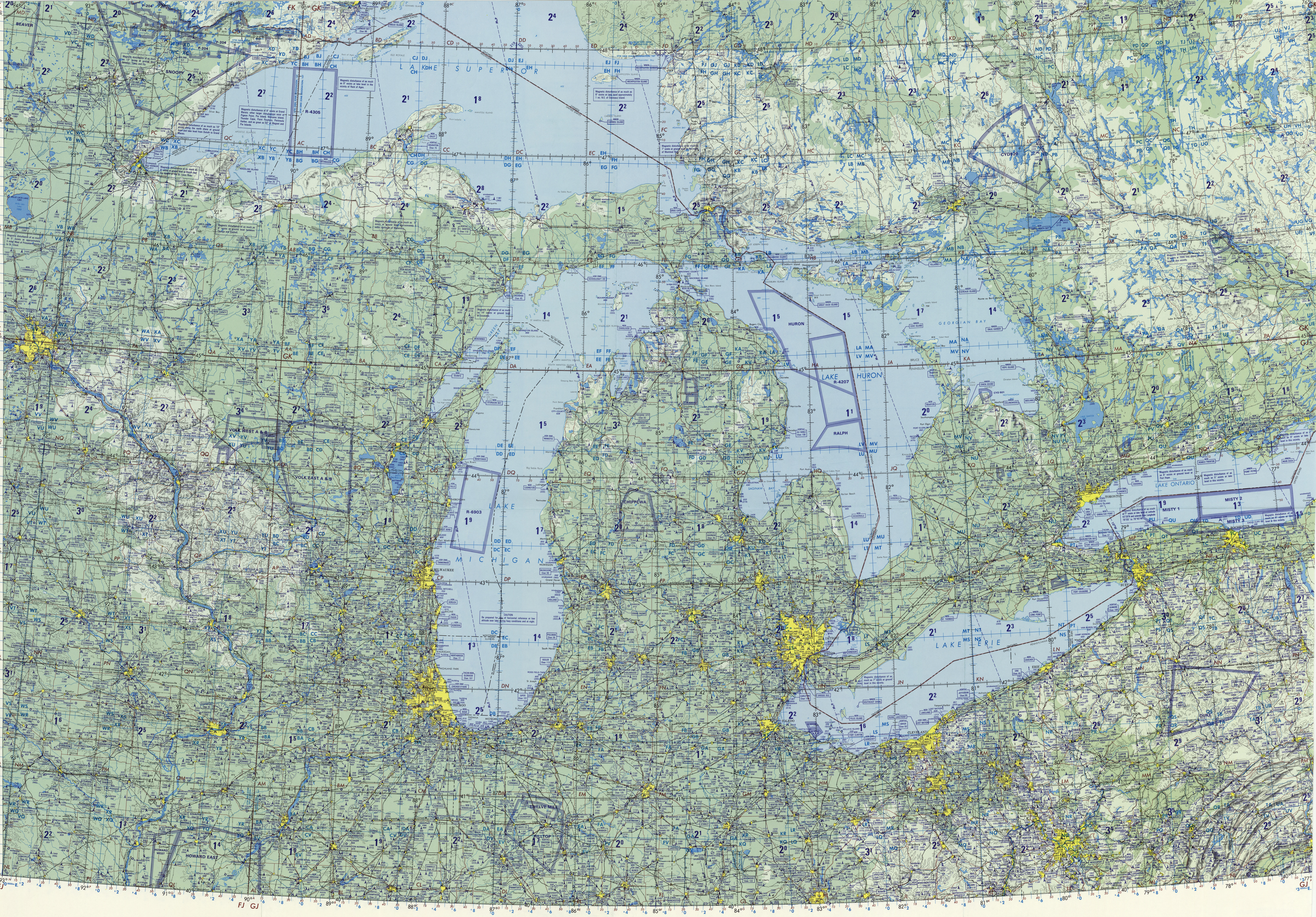

SAMPLE AREA
5000000m N.
600000m E.
WA XA
WV XV
CORNELL

TO REFERENCE TO NEAREST 1,000 METERS
SAMPLE POINT: CORNELL
1. Read letters identifying 100,000 meter square in which the point lies: XA
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: 5
3. Locate first HORIZONTAL grid line or tick BELOW point and determine LARGE figure value: 0
Estimate tenths from grid line to point: 2
SAMPLE REFERENCE: XA4502
If reporting beyond 9° N.S. or 18° E.W., prefix Grid Zone Designation, as: 15TXA4502

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

Entire UTM Grid falls within Clarke 1866 Spheroid.

Civil users may purchase DMAAC products by ordering them from the following address:
DMA Combat Support Center
ATTN: PMSR
Washington, D.C. 20315-0020


LAKE SUPERIOR
LAKE MICHIGAN
LAKE HURON
GEORGIAN BAY
LAKE ONTARIO
LAKE ERIE
SAGINAW BAY
HURON
RALPH
R-4207
R-4305
R-6903
CHIPPEWA
VOLK WEST A & B
VOLK EAST A & B
MISTY 1
MISTY 2
HOWARD WEST
HOWARD EAST
TWELVE MILE
HILLTOP
CYD 626
BEAVER
SNOOPY
MINNEAPOLIS
MILWAUKEE
CHICAGO
DETROIT
TORONTO
CLEVELAND
BRUCE
DUKE
FK
FJ
GK
GJ

CAUTION

AIR INFORMATION CURRENT THROUGH 9 AUGUST 1991

Consult Notices to Airmen (NOTAMs) and Flight Information Publications (FLIPs) for the latest air information; the Chart Updating Manual (CHUM) for other chart revision information.

LINES OF EQUAL MAGNETIC VARIATION FOR 1990
Annual rate of change 5′ decrease easterly
Annual rate of change 5′ increase westerly

Lambert Conformal Conic Projection
Standard Parallels 41°20′ and 46°40′
Convergence Factor 0.69491

ONC F-18

CANADA, UNITED STATES

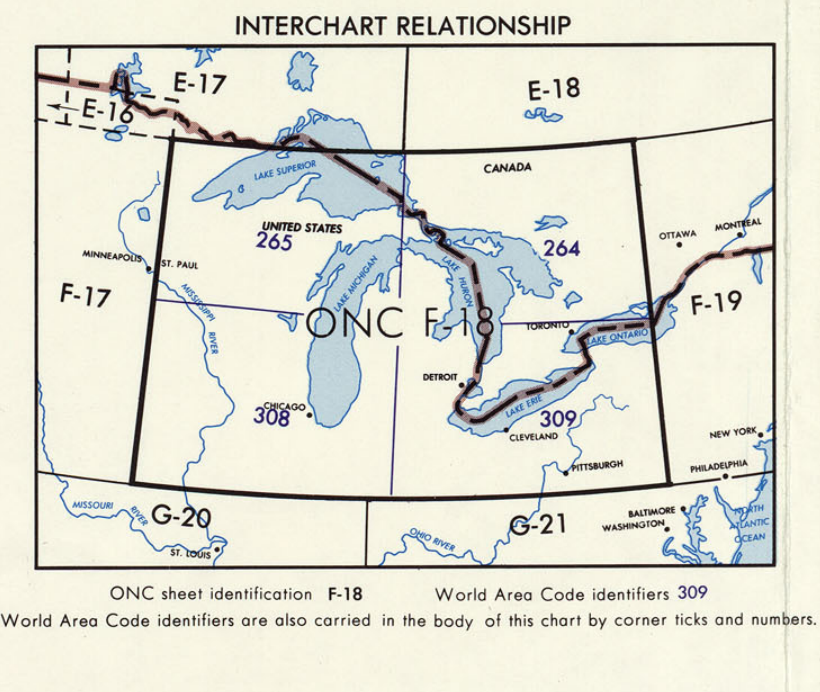
SCALE 1:1,000,000

Prepared and published by the Defense Mapping Agency Aerospace Center, St. Louis, Missouri. Base information compiled February 1965 (NOS). Revised August 1989 (NOS). (Revisions limited to aeronautical information.)

Lithographed by DMAAC 09-91

EDITION 10

INTERCHART RELATIONSHIP


E-16
E-17
E-18
F-17
ONC F-18
F-19
G-20
G-21
CANADA
UNITED STATES
265
264
308
309
LAKE SUPERIOR
LAKE MICHIGAN
LAKE HURON
LAKE ONTARIO
LAKE ERIE
MINNEAPOLIS
ST. PAUL
MISSISSIPPI RIVER
CHICAGO
DETROIT
TORONTO
CLEVELAND
PITTSBURGH
OTTAWA
MONTREAL
NEW YORK
PHILADELPHIA
BALTIMORE
WASHINGTON
ST. LOUIS
MISSOURI
OHIO RIVER
ATLANTIC OCEAN

ONC sheet identification F-18 World Area Code identifiers 309
World Area Code identifiers are also carried in the body of this chart by corner ticks and numbers.

DMA STOCK NO. ONCXXF18 ED. NO. 010

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

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

ELEVATIONS IN FEET

OPERATIONAL NAVIGATION CHART

Users should refer corrections, additions and comments for improving this product to: DIRECTOR, DEFENSE MAPPING AGENCY AEROSPACE CENTER, 3200 SOUTH SECOND STREET, ST. LOUIS, MISSOURI, 63118-3399, ATTN PP.

WORLD GEOGRAPHIC REFERENCE SYSTEM (RED-BROWN)

SAMPLE AREA: FICTITIOUS
AB
VILLAGE
LH MH

TO REFERENCE TO WITHIN ONE MINUTE
SAMPLE POINT: VILLAGE
Read GEOREF values from left to right and from bottom to top.
1. Read letters identifying basic 15° quadrangle in which the point lies: MH
2. Read letters identifying 1° quadrangle in which the point lies: AB
3. Locate first MINUTE tick of LONGITUDE to LEFT of point and determine GEOREF value: 12
4. Locate first MINUTE tick of LATITUDE BELOW point and determine GEOREF value: 06
SAMPLE REFERENCE: MHAB1206

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