SOUTH

NAV CANADA

NORTH

TORONTO

VFR NAVIGATION CHART

SCALE 1:500 000

Lambert Conformal Conic Projection, Standard Parallels 41°20' and 46°40'

34TH EDITION AERONAUTICAL INFORMATION MAY 2016

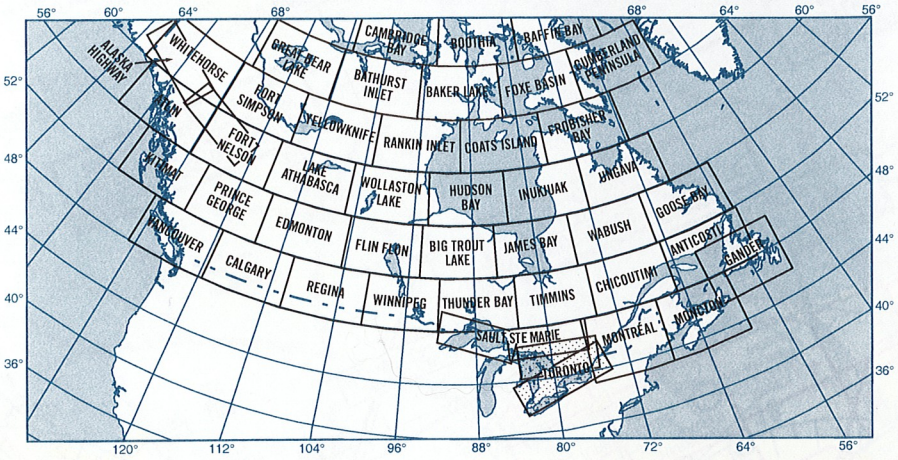
Includes airspace amendments effective 26 MAY 2016

CONSULT NOTAM AND CANADA FLIGHT SUPPLEMENT FOR ADDITIONAL DATA AND LATEST INFORMATION

CONSULT CANADA FLIGHT SUPPLEMENT FOR GENERAL CHART LEGEND INFORMATION

Topographic data corrected **December 2008**

Minor topographic data corrections **May 2016**



AERODROMES

Aerodrome symbols may be offset for clarity of presentation
For services and other data see the Flight Supplement

WITH SERVICES

WITH HARD SURFACED RUNWAYS

Only usable runways are shown.
Patterns drawn at chart scale

WITHOUT HARD SURFACED RUNWAYS

LAND WATER

OTHER AERODROMES

Land
Water
Heliport
Hospital heliport
Abandoned
Status unknown

AERODROME DATA

NAME
371 L H53A122.2
DAYS 60

NAME (M)
371 L 53M122.3

NAME (R)
371 S

	Customs available
ATIS	Automatic Terminal Information Service
371	Elevation in feet (ASL)
L	Runway lighting available
L	ARCAL
★	Ltd hrs or O/R: see CFS
H	Hard surfaced runway
53	Longest landing distance in hundreds of feet (53 indicates length between 5270 and 5369)
DAYS 60	Day landing distance
ICE	Ice runway present: see CFS
M	Mandatory Frequency
A	Aerodrome Traffic Frequency
U	Private advisory station (UNICOM) U1-122.8 U2-123.0
C	Common Traffic Advisory Frequencies (USA)
S	Sheltered mooring area
(M)	Military aerodrome - restricted PPR, use only by specific authorization
(R)	Restricted, PPR, use only by specific authorization
☆	Aerodrome Beacon
NO SVFR	Fixed-wing special VFR flight is prohibited (USA)

AIRSPACE INFORMATION

All bearings are magnetic

Controlled airspace below FL 180 is shown
Transponder Mode C required in all class "B" and "C" airspace.

Controlled area boundary
181° VHF/UHF airway centre line
250° LF/MF airway centre line (Bearings based on quarter point variation)
Air route centre line
VR840 Military Training Route
VFR Route. See AIP CANADA (ICAO)
Compulsory/on request reporting points
Changeover Point (Not shown at midpoint locations)
Airspace boundary (Class as indicated).
MODE C Transponder Mode C required
E700 Boundary between controlled areas with different floors. Floors are 2200 feet AGL in Canada and 1200 feet AGL in U.S.A. unless otherwise indicated. 700 feet is AGL.
Class of airspace

CZ 3000 (2700) Class "B" control zone with ceiling 3000 feet ASL (Above aerodrome elevation 2700 feet)
CZ "D" 3000 (2700) Class "C" or "D" control zone as indicated with ceiling 3000 feet ASL (Above aerodrome elevation 2700 feet)
Class "E" control zone (Aerodrome control zone, other countries)
Class "F" or Special Use airspace.
CYA 118(A)
CYA 155(P)

CANADA: CYA - Advisory CYD - Danger CYR - Restricted
USA: A - Alert P - Prohibited R - Restricted
W - Warning

AREA ACTIVITY CODES

(A) Acrobatic (F) Aircraft Test Area (H) Hang Gliding
(M) Military Operations (P) Parachute Dropping
(S) Soaring (T) Training
MOA - Military Operation Area (USA)

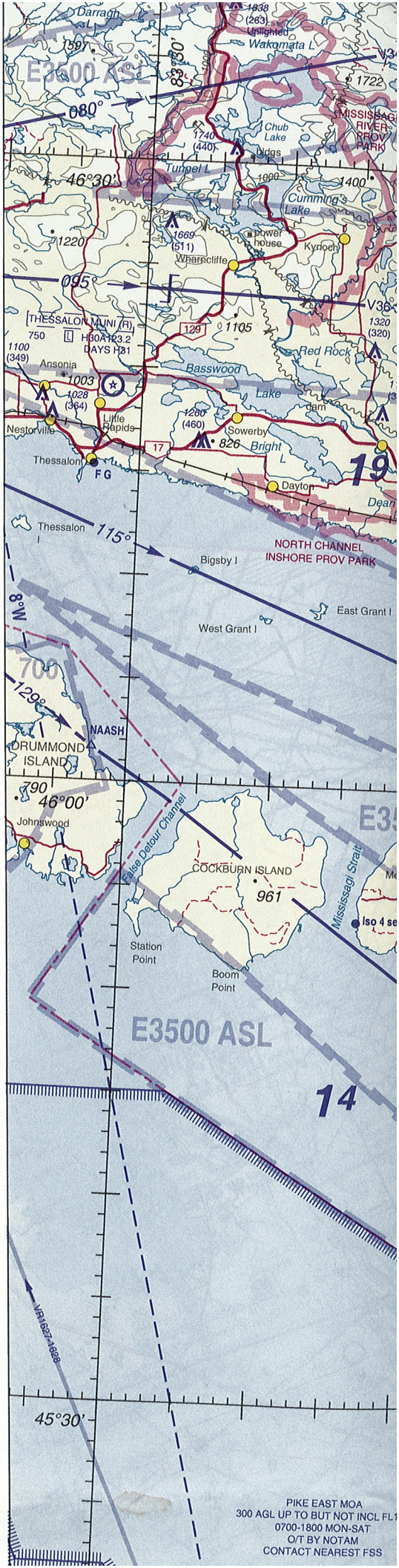
Altitudes are inclusive unless otherwise indicated.
(CZQM) - NOTAM file indicator.

Parachute Dropping
Hang-gliding
Soaring
Ultra-light
Training

All National, Provincial and Municipal Parks are closed to aircraft unless otherwise specified in the AIP CANADA (ICAO) and/or the supplements or by prior permission of the appropriate park authorities.

Kilometres 100 80 60 40 30 20 10 0
Nautical Miles 60 50 40 30 20 10 0
Statute Miles 60 50 40 30 20 10 5 0

SCALE 1:500 000



TORONTO

RADIO AIDS TO NAVIGATION

Radio/Navigation facilities not operated by Nav Canada or Department of National Defence and Commercial

E700 — Boundary between controlled areas with different floors. Floors are 2200 feet AGL in Canada and 1200 feet AGL in U.S.A. unless otherwise indicated. 700 feet is AGL.

Class of airspace

Hang-gliding

Ultra-light

Training

All National, Provincial and Municipal Parks are closed to aircraft unless otherwise specified in the AIP CANADA (ICAO) and/or the supplements or by prior permission of the appropriate park authorities.

TORONTO

RADIO AIDS TO NAVIGATION

Radio/Navigation facilities not operated by Nav Canada or Department of National Defence and Commercial Broadcasting Stations are subject to outage or change without NOTAM

VDF = VHF/DF UDF = UHF/DF VUDF = VHF/UHF/DF

Compass roses are oriented on magnetic north unless otherwise indicated.

VOR DME VORTAC TACAN NDB Commercial Broadcasting Station Dot indicates radio facility location.

RADIO AIDS TO NAVIGATION DATA BOXES

TORONTO
112.15 YYZ
DME Ch 58(Y)

VHF/UHF Navigation Aids.
DME available on frequency or channel.
TACAN mode "Y" must be used.

HALIFAX
115.1 YHZ
DME Ch 98
248 HZ

Combined VHF/UHF and LF/MF Navigation Aids.

KAMLOOPS
223 YKA

LF/MF Navigation Aids.

TACAN and DME channels are without voice and are not underlined.
(Private) indicates NON Nav Canada/DND facility.
TWB-Transcribed Weather Broadcast.
Underline indicates no ATS communication on this frequency.

AIR/GROUND COMMUNICATION BOXES

HEAVY LINE BOXES indicate FSS with Standard Group frequencies 126.7, 121.5, 243.0.

Other frequencies available are shown above the box.

Barred frequencies (e.g. ~~243.0~~) are not available.

In the USA heavy line boxes indicate Flight Service Stations with standard frequencies 255.4, 122.2 and emergency 243.0, 121.5.

FSS combined with Navaid
~~243.0~~ 122.5

FSS not associated with Navaid
~~243.0~~ 122.5
FSS opr ltd hrs
O/T see CFS

O/T see CFS - indicates other communication services available outside FSS hours. See CFS for details.

THIN LINE BOXES - Frequencies above box are remoted to site indicated in box from site shown below box.

Those without frequencies and controlling FSS name indicate no FSS frequencies available.

RCO or DRCO combined with Navaid
126.7

RCO or DRCO not associated with Navaid
243.0 123.275
QUEBEC
126.7 (bcst)
DRCO

DRCO - dialing instructions described in CFS.

A/G — Private Air/Ground Station. Only shown when more than 75 nautical miles from public station.

CARS — AIRPORT RADIO (ARPT RDO) Community Aerodrome Radio Station (CARS)

MISCELLANEOUS

—1°E— Lines of equal magnetic variation (2016 value)

Prominent Transmission Lines. Selected power transmission lines are depicted on this chart to assist in visual navigation.

Cable Span
Known hazardous cable crossings are shown

Marine Light. White unless annotated.

Obstruction and group obstructions below 1000' AGL.

Obstruction and group obstructions 1000' AGL and above.

1749 (1064) Elevation in feet (ASL) Height in feet (AGL)

NOTE: Known obstructions 300' or higher and known significant obstructions below 300' are shown. When two or more are in the same area, only the highest obstruction is shown. Obstructions are lighted unless labelled "Unlighted".

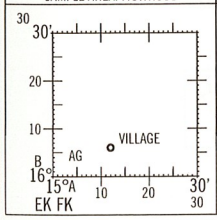
Lighting Annotations

Al - alternating white and red if colour not indicated, F - fixed, Fl - flashing, Iso - equal interval, Q - quick flashing, Oc - occulting, Fl(3) - group flashing, Oc(2) - group occulting, SEC - sector, sec - second, W - white, R - red, B - blue, G - green, Y - yellow, (3) - number of flashes for time period.

38 The Maximum Elevation Figure (MEF) is depicted in THOUSANDS and HUNDREDS of feet above sea level. The MEF represents the the highest feature in each quadrangle. Flight at or below the MEF may be at or below the highest obstruction in that quadrangle. Pilots need to provide a margin for ground and obstacle clearance and for altimeter error. Please see AIM1 RAC 5.4 602.15 2b (NOTE) and AIM AIR 1.5 for detail. The MEF is calculated based on terrain data and known and unknown obstacles.

WORLD GEOGRAPHIC REFERENCE SYSTEM

SAMPLE AREA: FICTITIOUS



TO REFERENCE TO WITHIN ONE MINUTE

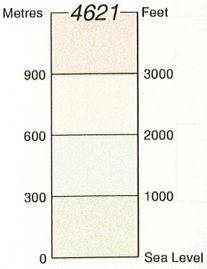
SAMPLE POINT: VILLAGE

Read GEOREF values from left to right and from bottom to top.				
1. Read letters identifying basic 15° quadrangle in which the point lies:	FK			
2. Read letters identifying 1° quadrangle in which the point lies:		AG		
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	FKAG1206			

15° Quadrangle Line

HYPSOMETRIC TINTS and ELEVATION INFORMATION

HIGHEST ELEV. ON CHART LOCATED AT
44°05' N 74°08' W



ELEVATIONS IN FEET

Contour interval 500' below 4000', 1000' above 4000'.

For selected topographic legend see Flight Supplement (Section A)

NOTICE

Additions and corrections for this chart are requested. Send to:
AIS DATA COLLECTION
PO BOX 9824 STN T CSC
OTTAWA ON K1G 9Z9

Published by NAV CANADA in accordance with ICAO Annexes 4 and 15 of the Convention on International Civil Aviation

Cartography and Printing:

WARNING
Refer to current U.S. Charts and flight information publications for information within U.S. airspace.

Topographic data WGS84

Kilometres
Nautical Miles
Statute Mi

Feet Metres
10 3
9
8
7 2
6
5
4 1
3
2
1
0 0

1 ft = 0.30481 m
1 m = 3.28084 ft

45°30'

PIKE EAST MOA
300 AGL UP TO BUT NOT INCL FL180
0700-1800 MON-SAT
O/T BY NOTAM
CONTACT NEAREST FSS

Presque Isle
Grand Lake
Rockport
Middle I
Cathro
SILVER CITY (R)
ALPENA (R)
ALPENA
THUNDER BAY
ALPENA CO REGIONAL
VORTAC ALPENA 108.8 APN Ch 25
LANSING
Ossineke
South Pt
Spruce
Black River
Hubbard Lake
Lost Lake Woods
FLYING M
Sturgeon Point
Lincoln
HARRISVILLE
Harrisville
Mikado
Greenbush
OSCODA-WUR
OSCODA
dam
power plant
AU SABLE
VOR/DME AU SABL
IOSCO CO
Au Sable Point
TAWAS CITY
Tawas Beach
44°30'
45°00'
83°30'
PIKE W
6000 TO BUT N
0700-180
O/T BY
CONTACT N
AL G W
STEELHEAD MO
6000 TO BUT NOT INCL
0700-1800 MON-SA
O/T BY NOTAM
CONTACT NEAREST
VR1648
VR1625
VR1645