

LEGEND

AERODROMES

LAND		WATER	
	Civil		
	Joint Civil-Military		
	Military		

Aerodromes in black have an instrument approach procedure available.

Aerodrome symbols may be offset for clarity of presentation.

Land aerodrome name shown only when different than associated NAVAID.

Water aerodrome name shown only when different than adjacent land aerodrome or NAVAID.

AERODROME DATA 562 ★ [L] H57

- 562 Elevation given in feet above sea level.
 - L Runway lighting available.
 - [L] ARCAL
 - ★ Ltd hrs or O/R: see CFS
 - H Hard surface runway.
 - 57 Length of longest landing distance available given to nearest 100 feet with 70 feet as the dividing point. i.e. 5680 is 5700 and shown as 57
- Water aerodrome data not shown.

RADIO AIDS TO NAVIGATION AND COMMUNICATION BOXES

RADIO AIDS TO NAVIGATION

Radio/Navigation Facilities not operated by NAV CANADA or Department of National Defense are subject to outages or changes without NOTAM.

VHF/UHF Aids are displayed in BLACK.
LF/MF Aids are displayed in GREEN.



COMPASS ROSE. Oriented to Magnetic North except in the Northern Domestic Airspace where VHF/UHF aids may be oriented on True or Grid North. Smaller sizes are used in congested areas.



Symbols may be displaced for sake of clarity, however the compass roses are correctly positioned.



AIR/GROUND COMMUNICATION BOXES

243.0 239.8



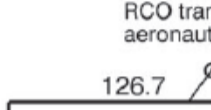
FSS opr ltd hrs

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

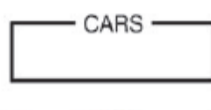
122.5 126.7



QUEBEC
126.7 (bcst)



THUNDER BAY
DRCO



HEAVY LINE BOXES indicate FSS with Standard Group frequencies 126.7, 121.5, 243.0 Low altitude discrete frequencies available are shown above the box. Barred frequencies (e.g. 243.0) are not available.

Remote Communications Outlet (RCO) or Dial-up Remote Communications Outlet (DRCO) associated with a Navigation Aid. Low altitude discrete frequencies above Thin Line Box are remoted to site indicated in box from FSS shown below box.

FIC/FSS will selectively activate the 126.7 MHz RCO transceiver when required to provide aeronautical broadcasting service (SEE CFS)

RCO or DRCO not associated with a Navigation Aid.

DRCO dialing instructions described in CFS.

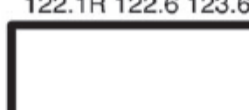
Peripheral Station. Remote site for extended range communications (PAL).

Community Aerodrome Radio Station (CARS).

Private air/ground station (A/G).

U.S.A. (including ALASKA)

122.1R 122.6 123.6



TWB

HEAVY LINE BOXES indicate Flight Service Stations (FSS). Frequencies 122.2 255.4 and emerg 121.5 and 243.0 are normally available at all FSS's and are not shown above boxes. All other freqs available at FSS's are shown.

Transcribed Weather Broadcast

Frequencies positioned above thin line NAVAID boxes are remoted to the NAVAID site. Other frequencies at the controlling FSS named are available, however altitude and terrain may determine their reception.



CHADRON CDR

Name and identifier for FSS not associated with NAVAID.



WASHINGTON

THIN LINE BOX without frequencies and Controlling FSS name indicates no FSS frequencies available.

Controlling FSS Name.

RADIO AIDS TO NAVIGATION DATA BOXES

NAME	Ch 102
115.5 YWG	---
N49 55.7 W97 14.3	
248 WG	---
N49 54.0 W97 21.0	

Combined VHF/UHF and LF/MF aids co-located with FSS. DME available on frequency or channel. Underline indicates no ATS communication on this frequency.

NAME	Ch 98
115.1 YHZ	---
N44 55.4 W63 24.1	

VHF/UHF aids co-located with FSS. Navaid coordinates

NAME	Ch 82
UOD	---
N49 55.7 W97 14.3	
DME 113.5	

UHF aids TACAN and DME channels are without voice and not underlined.

NAME	Ch 44(Y)
110.75 PLL	---

DME aids TACAN mode "Y" must be used if indicated.

NAME	248 NAM
N49 55.7 W97 14.3	

LF/MF aids Underline indicates no ATS communication on this frequency.

(Private) Unmonitored

Non NAV CANADA / DND facility. Subject to unscheduled outages without NOTAM.

AIRSPACE AND ROUTE INFORMATION

AIRWAYS AND ROUTES

VHF/UHF data is displayed in BLACK.
LF/MF data is displayed in GREEN.

Some VHF/UHF airways/air routes are based on LF/MF facilities and a serviceable ADF is required at the MEA on the LF/MF portions. Centre lines and bearings on these portions are displayed in green.

VHF/UHF airway centre line and identification.

LF/MF airway centre line and identification.

Uncontrolled air route and identification.

EVEN altitude direction indicated by pointed end of box.

Commonly used track or transition.

Uncontrolled low level fixed RNAV route.

Controlled low level fixed RNAV route.

Reference bearings are calculated at each waypoint or NAVAID in degrees TRUE in Northern Domestic Airspace and degrees magnetic in the Southern Domestic Airspace.

Radial from a VHF/UHF radio aid.

Bearing inbound to an LF/MF radio aid.

Southern Domestic LF/MF outbound bearings are calculated at the NAVAID on quarter point variation. Northern Domestic Airspace LF/MF outbound bearings are calculated at the NAVAID and are true tracks.

Facility Locator used with radial line in the formation of an intersection if not otherwise obvious.

Facility Locator used with bearing line in the formation of an intersection if not otherwise obvious.

Mileage breakdown point.

Denotes DME fix. (Distance same as route mileage).

Denotes DME fix. (Encircled mileage shown when not otherwise obvious).

Total mileage between radio aids and/or compulsory reporting points.

Mileage between other reporting points, radio aids and/or mileage breakdown points.

MEA (Minimum Enroute Altitude).

MOCA (Minimum Obstruction Clearance Altitude). MOCA omitted when same as MEA.

MRA (Minimum Reception Altitude). MRA omitted when same as MEA.

Change in MEA or MOCA at an intersection or mileage breakdown point.

Changeover point with mileage to radio aids. (Not shown at midpoint locations).

U.S.A. (including ALASKA)

MCA (Minimum Crossing Altitude).

MRA (Minimum Reception Altitude).

MAA (Maximum Authorized Altitude).

REPORTING POINTS

Compulsory

On request

A circle over a radio aid, intersection or waypoint denotes RNAV Fly-over.

Arrow points to aids forming intersection if not otherwise obvious.

BOUNDARIES

FIR (Flight Information Region).

Area of True Tracks.

Air Defence Identification Zone.

Control Area (CTA) Separation.

Observed Coordinated Universal Time Zone (UTC).

International Boundary.

Altimeter Setting Region.

Class "B" control zone with ceiling 3000 feet ASL. (Above aerodrome elevation 2700 feet).

Class "C" or "D" control zone as indicated with ceiling 3000 feet ASL. (Above aerodrome elevation 2700 feet).

Class "E" control zone 3000' AAE, unless specified. (AAE above aerodrome elevation)

NOTE: CZ data will not be depicted on LO charts when fully contained within a Terminal Area Chart.

Boundary of Terminal Area Chart.

SPECIAL-USE AIRSPACE

CYA - Advisory Area Activity Code:

(A) Acrobatic;

(F) Aircraft Test Area;

(H) Hang Gliding;

(M) Military Operations;

(P) Parachuting;

(S) Soaring;

(T) Training.

CYR - Restricted.

CYD - Danger.

Altitudes are from the surface up to and including altitude shown unless otherwise indicated.

(CZQM) - NOTAM file indicator.

U.S.A. (including ALASKA)

P- Prohibited. R- Restricted. W- Warning.

MOA- Military Operations Area. (In Green).

MISCELLANEOUS

This product is based on NAD83 coordinates.

Isogonal (2003)

Holding pattern with airspeed indicates maximum assessed speed for hold or shuttle

Distances are in nautical miles and tracks are magnetic except in the Northern Domestic Airspace where tracks are true e.g. (258T).

All altitudes are ASL unless otherwise noted MOCA's (or MEA's when MOCA omitted) meet obstacle clearance requirements under ISA (International Standard Atmosphere) conditions.

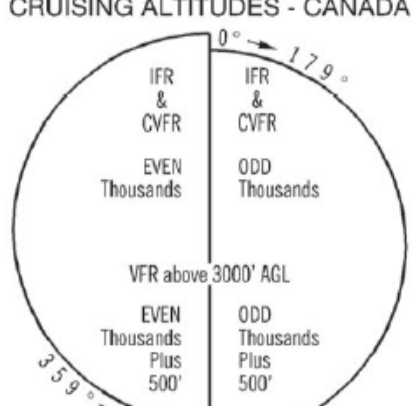
Open areas (white) indicate controlled airspace.

Shaded areas (green) indicate uncontrolled airspace.

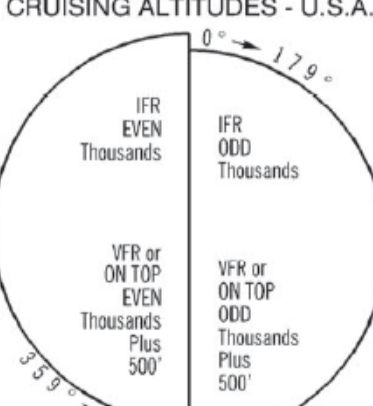
Controlled airspace above 12500 ASL in Canada.

Area Minimum Altitude (AMA)

CRUISING ALTITUDES - CANADA



CRUISING ALTITUDES - U.S.A.



VFR above 3000' AGL IFR-Outside controlled airspace IFR within controlled airspace as assigned by ATC All courses are magnetic.

For additional characteristics of USA Airspace, see appropriate USA publications.



Recyclable