

CANADA FLIGHT SUPPLEMENT / GPH 205

Effective 0901Z 20 November 2008 to 0901Z 15 January 2009

RADIO NAVIGATION AND COMMUNICATIONS D1

RADIO NAVIGATION AND COMMUNICATIONS

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D2 RADIO NAVIGATION AND COMMUNICATIONS

DME FREQUENCY PAIRING PLAN

The following list of paired "X" and "Y" DME frequencies is provided to allow DME equipped aircraft to use the DME function of TACAN's not collocated with a VOR. The "Y" frequencies are generally associated with an ILS. ICAO Annex 10, Vol. 1 refers.

VOR-ILS Freq MHz	TACAN Channel	VOR-ILS Freq MHz	TACAN Channel	VOR Freq MHz	TACAN Channel	VOR Freq MHz	TACAN Channel
108.00	17X	110.00	37X	112.00	57X	114.00	87X
108.05	17Y	110.05	37Y	112.05	57Y	114.05	87Y
108.10	18X	110.10	38X	112.10	58X	114.10	88X
108.15	18Y	110.15	38Y	112.15	58Y	114.15	88Y
108.20	19X	110.20	39X	112.20	59X	114.20	89X
108.25	19Y	110.25	39Y	112.25	59Y	114.25	89Y
108.30	20X	110.30	40X	112.30	70X	114.30	90X
108.35	20Y	110.35	40Y	112.35	70Y	114.35	90Y
108.40	21X	110.40	41X	112.40	71X	114.40	91X
108.45	21Y	110.45	41Y	112.45	71Y	114.45	91Y
108.50	22X	110.50	42X	112.50	72X	114.50	92X
108.55	22Y	110.55	42Y	112.55	72Y	114.55	92Y
108.60	23X	110.60	43X	112.60	73X	114.60	93X
108.65	23Y	110.65	43Y	112.65	73Y	114.65	93Y
108.70	24X	110.70	44X	112.70	74X	114.70	94X
108.75	24Y	110.75	44Y	112.75	74Y	114.75	94Y
108.80	25X	110.80	45X	112.80	75X	114.80	95X
108.85	25Y	110.85	45Y	112.85	75Y	114.85	95Y
108.90	26X	110.90	46X	112.90	76X	114.90	96X
108.95	26Y	110.95	46Y	112.95	76Y	114.95	96Y
109.00	27X	111.00	47X	113.00	77X	115.00	97X
109.05	27Y	111.05	47Y	113.05	77Y	115.05	97Y
109.10	28X	111.10	48X	113.10	78X	115.10	98X
109.15	28Y	111.15	48Y	113.15	78Y	115.15	98Y
109.20	29X	111.20	49X	113.20	79X	115.20	99X
109.25	29Y	111.25	49Y	113.25	79Y	115.25	99Y
109.30	30X	111.30	50X	113.30	80X	115.30	100X
109.35	30Y	111.35	50Y	113.35	80Y	115.35	100Y
109.40	31X	111.40	51X	113.40	81X	115.40	101X
109.45	31Y	111.45	51Y	113.45	81Y	115.45	101Y
109.50	32X	111.50	52X	113.50	82X	115.50	102X
109.55	32Y	111.55	52Y	113.55	82Y	115.55	102Y
109.60	33X	111.60	53X	113.60	83X	115.60	103X
109.65	33Y	111.65	53Y	113.65	83Y	115.65	103Y
109.70	34X	111.70	54X	113.70	84X	115.70	104X
109.75	34Y	111.75	54Y	113.75	84Y	115.75	104Y
109.80	35X	111.80	55X	113.80	85X	115.80	105X
109.85	35Y	111.85	55Y	113.85	85Y	115.85	105Y
109.90	36X	111.90	56X	113.90	86X	115.90	106X

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VOR- ILS Freq MHz	TACAN Channel	VOR- ILS Freq MHz	TACAN Channel	VOR Freq MHz	TACAN Channel	VOR Freq MHz	TACAN Channel
109.95	36Y	111.95	56Y	113.95	86Y	115.95	106Y
116.00	107X	116.50	112X	117.00	117X	117.50	122X
116.05	107Y	116.55	112Y	117.05	117Y	117.55	122Y
116.10	108X	116.60	113X	117.10	118X	117.60	123X
116.15	108Y	116.65	113Y	117.15	118Y	117.65	123Y
116.20	109X	116.70	114X	117.20	119X	117.70	124X
116.25	109Y	116.75	114Y	117.25	119Y	117.75	124Y
116.30	110X	116.80	115X	117.30	120X	117.80	125X
116.35	110Y	116.85	115Y	117.35	120Y	117.85	125Y
116.40	111X	116.90	116X	117.40	121X	117.90	126X
116.45	111Y	116.95	116Y	117.45	121Y	117.95	126Y



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D4 RADIO NAVIGATION AND COMMUNICATIONS

VOR FACILITIES WITH REDUCED SERVICE VOLUMES

(Service volume is that volume of airspace where adequate co-channel and adjacent channel protection is provided.)

VOR frequency assignments in Canada are normally protected against co-channel interference to a maximum radius of 200NM from the facility. However, in the Quebec City - Windsor - Sault Ste. Marie triangle the protection is only 150NM. Exceptions to these standards appear in the following table:

Location	Service volume	VOR frequency
Midland ON	VOR/DME 125 NM	112.8 MHz
Quebec QC	VORTAC 125 NM	112.8 MHz
Coehill ON	VOR/DME 055° clkwz to 145° 100 NM 145° clkwz to 235° 40 NM 235° clkwz to 055° 150 NM	115.1 MHz
Beauce QC	VOR/DME 135° clkwz to 275° 100 NM 275° clkwz to 315° 150 NM 315° clkwz to 135° 200 NM	117.2 MHz
Geraldton ON	VOR/DME 135° clkwz to 250° 150 NM 250° clkwz to 135° 200 NM	114.2 MHz
Prince George BC	VOR/DME Scalloping may be experienced on all radials from 20-60 NM	112.3 MHz
Sept-Iles QC	VOR/DME R-112 possibility of scalloping between 30 and 50 NM	114.5MHz
Whitehorse YT	VOR/DME R-074 is occasionally subject to severe scalloping	116.6 MHz

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RADIO NAVIGATION AIDS BY LOCATION

These navigation facilities (with exceptions) are not listed under the Aerodrome/Facility Directory. The antenna elevation in feet ASL of VHF/UHF navigation facilities will be given when available.

Any NOTAM regarding the Canadian navigation facilities listed below, not published under the Aerodrome/Facility Directory section, is issued under the appropriate FIR NOTAM file identifier.

RADIO NAVIGATION AIDS BY LOCATION

Name	Type	Indicator	Freq/Ch (Aux Code)	(N)Lat	(W)Long	Elev	Var
Active Pass, BC	NDB	AP	378(L)	48 52 26	123 17 24		19E
Akureyri, Iceland	VOR/DME	AKI	113.6/83X	65 45 34	18 00 31		
Akureyri, Iceland	NDB	AR	334(LZ)	65 45 16	18 05 38		
Ameson, ON	VOR/DME	YAN	112.4/71	49 46 41	84 35 28		8W
Angissoq, Gnd.	NDB	AS	318(L)	59 59 00	45 10 00		
Argentia, NL	NDB	UWP	323(M)	47 17 41	53 59 26		21W
Ashcroft, BC	NDB	YZA	236(M)	50 42 07	121 19 13		19E
Aylmer (St. Thomas Muni), ON	VOR/DME	YQO	114.2/89	42 42 24	80 53 16		8W
Bermuda, Bermuda	VORTAC	BDA	113.9/86	32 21 51	64 41 22		
Bjartangar, Iceland	NDB	BT	287.3	65 30 10	24 32 00		
Blonduos, Iceland	NDB	BL	351	65 41 30	20 18 00		
Broadview, SK	VORTAC	YDR	117.5/122	50 21 47	102 32 25	2016	12E
Broughton (Qikiqtarjuaq), NU	NDB	YJI	237(M)	67 33 43	64 01 03		40W
Campbellford, ON	VORTAC	YCF	113.5/82	44 19 59	77 42 17	620	12W
Christianshaab, Gnd.	NDB	CH	265(L)	68 49 30	51 12 30		
Chute-des-Passes, QC	NDB	DG	244(M)	49 53 52	71 15 14		19W
Coehill, ON	VOR/DME	VIE	115.1/98	44 39 39	77 53 17		12W
Creston North, BC	NDB	W6	233(M)	49 10 35	116 36 19		17E
Dafoe, SK	NDB	VX	368(L)	51 52 23	104 34 11		11E
Dalatangi, Iceland	NDB	DA	305.7(M)	65 16 13	13 34 39		
Delta, MB	NDB	UDE	269(L)	50 09 59	98 18 26		6E
Djupivogur, Iceland	NDB	DV	298.8(M)	64 39 06	14 16 36		
Egedesminde, Gnd.	NDB	EM	215(L)	68 42 36	52 50 36		
Ellidavatn, Iceland	NDB	EL	335(M)	64 04 48	21 46 26		
Enderby, BC	VORTAC	YNY	115.2/99	50 40 40	118 56 20	6697	21E
Enderby, BC	NDB	NY	350(M)	50 39 00	118 55 32		19E
Flores, Portugal	NDB	FLO	270(M)	39 26 37	31 09 49		
Frederikshaab, Gnd.	NDB	FH	331(L)	61 59 50	49 39 07		
Gardur (Husavik), Iceland	NDB	GA	377(L)	65 52 41	17 27 50		
Georgian Bay (Parry Sound Area Muni), ON	NDB	F7	353(M)	45 16 08	79 50 12		11W
Gibraltar Point (Toronto/ City Centre), ON	NDB	TZ	257(L)	43 36 46	79 23 08		11W
Gjogur, Iceland	NDB	GJ	340	65 59 49	21 20 15		
Godhavn, Gnd.	NDB	GN	306(M)	69 14 42	53 32 00		
Goltur, Iceland	NDB	GV	310.3	66 09 48	23 34 24		
Graciosa, Azores	NDB	GRA	283(M)	39 05 00	28 01 00		
Greely (Ottawa Intl), ON	NDB	YRR	377(L)	45 16 06	75 34 25		14W
Grimsey, Iceland	NDB	GR	308(L)	66 31 36	17 59 06		
Grof (Reykjavik) Iceland	NDB	GF	319(L)	64 08 59	21 56 30		
Hegranes, Iceland	NDB	HE	362(L)	65 45 05	19 31 23		
Hjalteyri, Iceland	NDB	HJ	319(L)	65 50 56	18 11 40		
Hofsa, Iceland	NDB	HA	348	65 37 40	15 02 55		
Holmavik, Iceland	NDB	HK	366	65 38 38	21 28 46		
Holsteinsborg, Gnd.	NDB	HB	328(H)	66 56 13	53 42 15		
Hornbjarg, Iceland	NDB	HO	298.8(M)	66 24 44	22 23 02		
Hrutur, Iceland	NDB	HR	350(M)	62 24 24	21 05 30		
Husavik, Iceland	NDB	HU	329(M)	65 55 10	17 26 36		
Ilulissat, Gnd.	NDB	JV	367(L)	69 14 34	51 04 40		
Ilulissat, Gnd.	DME	JA	111.95/56Y	69 14 29	51 03 58		
Ingo, Iceland	NDB	IN	316(M)	63 48 06	16 38 36		
Ingo, Iceland	VOR/DME	IN	112.4/71	63 48 11	16 38 36		

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RADIO NAVIGATION AIDS BY LOCATION (Cont'd)

Name	Type	Indicator	Freq/Ch	(N)Lat	(W)Long	Elev	Var
			(Aux Code)				
Jan Mayen, Norway	NDB	JAN	362	70 56 41	08 40 12		
Julianehaab, Gnd.	NDB	JH	265(L)	60 43 30	46 02 00		
Killaloe, ON	VOR/DME	YXI	115.6/103	45 39 47	77 36 10		12W
Kook Islands, Gnd.	NDB	KU	298(M)	64 04 17	52 01 03		
Kopasker, Iceland	NDB	KP	400(L)	66 18 08	16 27 00		
Laberge (Whitehorse), YT	NDB	JB	236(L)	60 56 56	135 08 16		25E
Lakeshore (Watson Lake), YT	NDB	XG	338(L)	60 06 46	128 47 58		25E
Langholt, Iceland	NDB	LA	344(L)	65 34 38	19 29 20		
Langruth, MB	VORTAC	VLR	112.2/59	50 25 20	98 43 25	935	9E
Liard River, BC	NDB	ZL	263(M)	59 28 06	126 08 37		25E
Little Cornwallis Island, NU	NDB	F4	402(M)	75 23 25	96 55 51		32W
Malarriif, Iceland	NDB	MA	303.4(M)	64 43 41	23 48 29		
Mans, ON	VORTAC	YMS	114.5/92	44 08 36	80 08 47		9W
Marmorilik, Gnd.	NDB	MAR	322(L)	71 07 41	51 13 21		
Nanortalik, Gnd.	NDB	NN	270(L)	60 08 45	45 15 20		
Naramata (Penticton), BC	NDB	UNT	312(L)	49 35 50	119 36 10		18E
Narsaq, Gnd.	NDB	NS	404(L)	60 54 00	46 01 00		
Nes (Reykjavik), Iceland	NDB	NS	370(L)	64 08 03	21 57 49		
Nordfjordur, Iceland	NDB	NF	325(M)	65 08 00	13 44 39		
Ogur, Iceland	NDB	OG	400(L)	66 02 36	22 41 18		
Okanagan (Penticton), BC	NDB	ON	356(L)	49 20 33	119 34 08		18E
Pabok (Du Rocher-Percé), QC	NDB	W7	219(M)	48 22 54	64 33 50		21W
Paine (Snohomish Co (Paine Fld)), WA	VOR/DME	PAE	110.6/43	47 55 11	122 16 40	670	20E
Patreksfjordur, Iceland	NDB	PA	348(M)	65 33 30	23 58 20		
Prins Christian Sund, Gnd.	NDB	OZN	372(H)	60 03 32	43 09 49		
Raufarhofn, Iceland	NDB	RG	301.1(M)	66 27 12	15 57 12		
Reykholt, Iceland	NDB	RH	325(L)	64 39 52	21 17 35		
Reykjanes, Iceland	NDB	RN	291.9(M)	63 48 53	22 42 53		
Reykjanesskoli, Iceland	NDB	RE	316(M)	65 55 37	22 25 55		
Rif, Iceland	NDB	RF	330	64 54 42	23 49 24		
Robinson (Whitehorse), YT	NDB	PJ	329(L)	60 26 22	134 51 41		25E
Sable Island, NS	NDB	1B	277(M)	43 55 50	60 01 22		20W
Saguenay, QC	VOR/DME	VBS	114.2/89	48 01 02	71 16 09	2918	19W
St-Felix-de-Valois, QC	NDB	UFX	260(L)	46 11 32	73 25 08		16W
Sao Miguel, Azores	NDB	MGL	371(M)	37 44 00	25 35 00		
Sault Ste. Marie, MI	VORTAC	SSM	112.2/59(M)	46 24 43	84 18 53		4W
Scoresbysund, Gnd.	NDB	SC	343(M)	70 29 12	21 57 36		
Simcoe, ON	VOR/DME	YSO	117.35/120Y	44 14 19	79 10 18	932	10W
Simiutaq, Gnd.	NDB	SI	279(M)	60 41 00	46 36 00		
Skagata, Iceland	NDB	SM	312.6	66 07 12	20 06 12		
Skagi, Iceland	NDB	SA	379(L)	64 18 21	21 58 18		
Skardsfjara, Iceland	NDB	SF	312.6(M)	63 31 00	17 58 54		
Skookum (Cranbrook), BC	NDB	SX	368(M)	49 57 18	115 47 32	2830	17E
Sletthlid, Iceland	NDB	SD	370(L)	66 04 00	19 20 06		
Strandhofn, Iceland	NDB	SK	314.5(M)	65 54 30	14 39 06		
Stykkisholmur, Iceland	NDB	ST	382(M)	65 03 28	22 46 00		
Sukkertoppen, Gnd.	NDB	ST	310(L)	65 25 13	52 54 29		
Tatoosh, WA	VORTAC	TOU	112.2/59	48 17 59	124 37 37	1652	22E
Telkwa (Smithers), BC	NDB	TK	391(L)	54 40 11	126 59 33		22E
Thorshofn, Iceland	NDB	TH	339(M)	66 15 03	15 16 04		
Torbay, NL	VOR/DME	YYT	113.5/82	47 29 07	52 51 08		24W
Turner Valley, AB	NDB	TV	299(L)	50 45 00	114 22 06		17E

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RADIO NAVIGATION AIDS BY LOCATION (Cont'd)

Name	Type	Indicator	Freq/Ch		(N)Lat	(W)Long	Elev	Var
			(Aux Code)					
Uummannaq, Gnd.	NDB	UM	354(M)		70 40 00	52 07 00		
Upernavik, Gnd.	NDB	UP	399(M)		72 47 35	56 09 14		
Vopnafjordur, Iceland	NDB	VF	393(M)		65 43 11	14 51 47		
Whatcom, WA	VORTAC	HUH	113.0/77		48 56 43	122 34 45	80	20E
White Rock (Abbotsford), BC	NDB	WC	332(L)		49 00 12	122 45 01		19E



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VHF/UHF NAVAIDs set to a magnetic variation different than the 2003 Epoch Year will have the Epoch Year of the set variation listed in parenthesis following the actual value.

VHF/UHF NAVAIDs located in Northern Domestic Airspace and not set to a magnetic variation will have the notation "True" or "Grid" listed, indicating that the NAVAID is oriented on True North or Grid North.

Omission of a variation value indicates that Epoch Year data is not available for that location.

RADIO NAVIGATION AIDS BY INDICATOR

INDICATOR	NAME	(N)LAT	(W)LONG	VAR (Year)
A				
AC	Pleasant Lake (Yarmouth), NS, NDB	43 51.7	66 02.6	18W
AKI	Akureyri, Iceland, VOR	65 45.6	18 00.5	
ANN	Annette Island, AK, VORTAC	55 03.6	131 34.7	
AP	Active Pass, BC, NDB	48 52.4	123 17.4	19E
AR	Akureyri, Iceland, NDB	65 45.3	18 05.6	
AS	Angissoq, Gnd, NDB	59 59.0	45 10.0	
AV	St. Andrews, MB, NDB	50 03.2	97 02.7	4E
AY	St. Anthony, NL, NDB	51 23.2	56 05.8	23W
A1	Taiheili Narrows, NT, NDB	62 35.7	111 31.1	20E
A5	Chinchaga, AB, NDB	57 32.7	119 6.8	22E
A9	Liverpool, NS, NDB	44 13.6	64 51.5	19W
B				
BD	Baildon (Moose Jaw), SK, NDB	50 17.5	105 26.5	12E
BDA	Bermuda, Bermuda, VORTAC	32 21.9	64 41.4	
BGR	Bangor, ME, VORTAC	44 50.5	68 52.5	19W (1985)
BK	Baker Lake, NU, NDB	64 18.9	96 03.9	2W
BL	Blonduos, Iceland, NDB	65 41.5	20 18.0	
BM	Balmoral, MB, NDB	50 08.2	97 18.6	5E
BR	Brandon, MB, NDB	49 54.5	100 04.4	7E
BR	Breidavag, Iceland, NDB	65 20.0	14 22.4	
BT	Bjartangar, Iceland, NDB	65 30.2	24 32.0	
BV	Champlain (Québec/Jean Lesage Intl), QC, NDB	46 52.3	71 16.9	17W
BX	Blanc-Sablon (Lourdes-de-Blanc-Sablon), QC, NDB	51 25.3	57 12.2	23W
BY	Beechy, SK, NDB	50 50.5	107 27.6	13E
B5	Gunisao Lake, MB, NDB	53 31.3	96 22.5	3E
C				
CA	Cartwright, NL, NDB	53 42.6	57 01.1	25W
CB	Cambridge Bay, NU, NDB	69 06.8	105 00.9	14E
CG	Castlegar, BC, NDB	49 26.8	117 34.5	18E
CH	Christianshaab, Gnd, NDB	68 49.5	51 12.5	
CI	Koloe, MI, NDB	46 19.9	84 32.5	6W
CL	Charlo, NB, NDB	48 00.5	66 26.2	20W
CN	Cochrane, ON, NDB	49 04.8	80 56.7	12W
C7	Geraldton, ON, NDB	49 46.3	86 58.3	6W

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RADIO NAVIGATION AIDS BY INDICATOR (Cont'd)

INDICATOR	NAME	(N)LAT	(W)LONG	VAR (Year)
D				
DA	Dalatangi, Iceland, NDB	65 16.2	13 34.7	
DA	Dawson City, YT, NDB	64 01.7	139 10.1	26E
DA	Kulusuk, Gnd, NDB	65 34.3	37 12.7	
DB	Burwash, YT, NDB	61 20.4	138 59.0	25E
DC	Princeton, BC, NDB	49 28.2	120 31.0	18E
DF	Deer Lake, NL, NDB	49 10.8	57 27.4	22W
DG	Chute-des-Passes, QC, NDB	49 53.9	71 15.2	19W
DL	Pykla (Duluth), MN, NDB	46 50.8	92 21.3	3E
DN	Dauphin, MB, NDB	51 05.9	100 03.7	7E
DQ	Dawson Creek, BC, NDB	55 43.7	120 04.1	21E
DV	Djupivogur, Iceland, NDB	64 39.1	14 16.6	
D1	Great Bear Lake, NT, NDB	66 42.5	119 40.3	28E
D3	Ponoka Indus, AB, NDB	52 41.0	113 36.4	17E
D5	McArthur River, SK, NDB	57 46.1	105 01.2	12E
D5	Melfort, SK, NDB	52 52.3	104 48.4	12E
D6	Fairmont Hot Springs, BC, NDB	50 19.6	115 52.6	17E
D6	Fairmont Hot Springs, BC, DME	50 19.6	115 52.6	17E
D7	Kincardine, ON, NDB	44 12.2	81 36.2	9W
D8	Dolbeau, QC, NDB	48 47.0	72 28.1	18W
E				
EB	Namao, AB, NDB	53 40.1	113 27.6	17E
EF	Champion (Castlegar), BC, NDB	49 15.4	117 38.1	18E
EG	Egilsstadir, Iceland, NDB	65 13.9	14 27.3	
EL	Ellidavatn, Iceland, NDB	64 04.8	21 46.4	
EM	Egedesminde, Gnd, NDB	68 42.6	52 50.6	
EV	Inuvik, NT, NDB	68 19.6	133 35.6	31E
EX	Rutland (Kelowna), BC, NDB	49 56.4	119 22.5	18E
E2	Tisdale, SK, NDB	52 47.9	104 02.4	11E
E3	Wabasca, AB, NDB & DME	55 57.8	113 49.4	21E
E8	Natuashish, NL, NDB	55 54.7	61 11.4	27W
F				
FC	Fredericton, NB, NDB	45 55.0	66 36.0	19W
FD	Brantford, ON, NDB	43 04.4	80 25.0	9W
FE	Forestville, QC, NDB	48 43.8	69 09.8	19W
FH	Frederikshaab, Gnd, NDB	61 59.8	49 39.1	
FH	McLeod (Whitecourt), AB, NDB	54 08.4	115 47.0	19E
FIL	Horta, Azores, NDB	38 31.3	28 41.3	
FK	Junction (Deer Lake), NL, NDB	49 15.8	57 18.5	22W
FLO	Flores, Azores, NDB	39 26.6	31 09.8	
FO	Flin Flon, MB, NDB	54 40.5	101 40.2	9E
FR	Fort Resolution, NT, NDB	61 09.3	113 38.3	21E
FS	Fort Simpson, NT, NDB	61 47.2	121 15.6	25E
F6	Chetwynd, BC, NDB	55 41.7	121 32.3	21E
F7	Georgian Bay (Parry Sound Area Muni), ON, NDB ..	45 16.1	79 50.2	11W
F8	Victoriaville, QC, NDB	46 06.6	71 55.6	17W
F9	Miramichi, NB, NDB	47 00.6	65 28.1	20W
F9	Miramichi, NB, DME	47 00.6	65 28.0	20W

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D10 RADIO NAVIGATION AND COMMUNICATIONS

RADIO NAVIGATION AIDS BY INDICATOR (Cont'd)

INDICATOR	NAME	(N)LAT	(W)LONG	VAR (Year)
G				
GA	Gardur (Husavik), Iceland, NDB	65 52.7	17 27.8	
GD	Goderich, ON, NDB	43 44.8	81 43.9	9W
GEG	Spokane, WA, VORTAC	47 33.9	117 37.6	21E (1975)
GF	Aylesford (Greenwood), NS, NDB	45 01.4	64 48.6	19W
GF	Grof (Reykjavik), Iceland, NDB	64 09.0	21 56.5	
GH	Fort Good Hope, NT, NDB	66 15.8	128 37.3	29E
GH	Godthaab, Gnl'd, DME	64 10.9	51 45.3	
GJ	Gjogur, Iceland, NDB	65 59.8	21 20.3	
GL	La Grande Riviere, QC, NDB	53 37.8	77 42.2	17W
GN	Godhavn, Gnl'd, NDB	69 14.7	53 32.0	
GN	Godhavn, Gnl'd, DME	64 11.4	51 41.0	
GP	Gaspe, QC, NDB	48 46.1	64 23.1	21W
GP	Lajes, Azores, NDB	38 47.0	27 06.8	
GR	Grindstone (Îles-de-la-Madeleine), QC, NDB	47 22.5	61 54.4	21W
GR	Grimsey, Iceland, NDB	66 31.6	17 59.1	
GRA	Graciosa, Azores, NDB	39 05.0	28 01.0	
GV	Goltur, Iceland, NDB	66 09.8	23 34.4	
GW	Jarpik (Kuujuarapik), QC, NDB	55 17.1	77 45.1	18W
GX	Gillam, MB, DME	56 21.4	94 42.2	1E
H				
HA	Hofsa, Iceland, NDB	65 37.8	15 02.5	
HB	Holsteinsborg, Gnl'd, NDB	66 56.2	53 42.3	
HE	Hope, BC, NDB	49 23.2	121 25.5	19E
HE	Hegranes, Iceland, NDB	65 45.1	19 31.4	
HF	Hearst, ON, NDB	49 40.0	83 43.5	9W
HI	Holman, NT, NDB	70 45.7	117 47.4	32E
HJ	Hjalteyri, Iceland, NDB	65 50.9	18 11.7	
HK	Holmavik, Iceland, NDB	65 38.6	21 28.8	
HM	Hamilton, ON, NDB	43 07.3	80 00.4	10W
HN	Hornafjordur, Iceland, NDB	64 16.2	15 12.7	
HO	Hopedale, NL, NDB	55 27.5	60 12.6	26W
HO	Hornbjarg, Iceland, NDB	66 24.7	22 23.0	
HR	Hrutur, Iceland, NDB	65 24.4	21 05.5	
HS	Husavik, Iceland, NDB	65 55.6	17 26.4	
HUH	Whatcom, WA, VORTAC	48 56.7	122 34.8	20E (1995)
HV	Hvammur, Iceland, NDB	65 38.1	18 04.4	
H7	Manitoulin East, ON, NDB	45 50.5	81 51.2	9W
I				
IB	Atikokan, ON, NDB	48 49.5	91 34.7	1W
IBL	Campbell River, BC, DME	49 57.2	125 16.6	20E
IBP	Moose Jaw, SK, DME	50 19.9	105 33.8	12E
IBW	Calgary/Springbank, AB, DME	51 06.1	114 22.9	17E
IBX	Lourdes-de-Blanc-Sablon, QC, DME	51 27.0	57 10.9	23W
IDC	Fredericton, NB DME	45 51.8	66 32.9	21W

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RADIO NAVIGATION AND COMMUNICATIONS D11

RADIO NAVIGATION AIDS BY INDICATOR (Cont'd)

INDICATOR	NAME	(N)LAT	(W)LONG	VAR (Year)
IDK	Diavik, NT, DME	64 30.5	110 18.4	20E
IDP	Toronto, ON, DME	43 39.7	79 37.2	10W
IEV	Inuvik, NT, DME	68 18.2	133 29.9	31E
IFB	Iqaluit, NU, DME	63 45.0	68 32.7	34W
IFZ	Vancouver, BC, DME	49 11.0	123 09.9	19E
IGV	Havre St-Pierre, QC, DME	50 17.2	63 35.8	22W
IHD	Dryden, ON, DME	49 50.1	92 45.0	0
IHR	Chevery, QC, DME	50 28.5	59 37.6	23W
IHZ	Halifax, NS, DME	44 53.6	63 30.8	19W
IIF	St-Augustin, QC, DME	51 12.0	58 39.3	23W
IJS	Toronto, ON, DME	43 39.8	79 37.1	10W
IKH	Victoria, BC, DME	48 39.2	123 26.1	19E
IKZ	Buttonville, ON, DME	43 51.4	79 21.8	11W
ILW	Kelowna, BC, DME	49 57.8	119 22.6	18E
IMJ	Moose Jaw, SK, DME	50 19.9	105 33.8	12E
IMK	Vancouver, BC, DME	49 11.8	123 12.0	19E
IN	Ingo, Iceland, NDB	63 48.1	16 38.6	
ING	Ingo, Iceland, VOR	63 48.2	16 38.6	
INL	International Falls, MN (Fort Frances Muni, ON), VORTAC	48 33.9	93 24.3	6E (1965)
INV	Toronto, ON, DME	43 40.5	79 36.0	10W
IOA	Montreal, QC, DME	45 27.6	73 44.3	15W
IOO	Oshawa, ON, DME	43 55.1	78 53.2	11W
IOW	Uplands (Ottawa/Macdonald-Cartier Intl), ON, DME	45 18.8	75 40.0	14W
IPR	Prince Rupert, BC, DME	54 17.4	130 27.0	22E
IQH	Watson Lake, YT, DME	60 07.2	128 49.8	25E
IQX	Gander, NL, DME	48 57.0	54 33.6	22W
IRB	Resolute Bay, NU, DME	74 42.7	94 57.6	35W
IRD	Vancouver, BC, DME	49 12.1	123 09.8	19E
IRJ	Roberval, QC, DME	48 31.6	72 16.5	18W
IS	Isafjordur, Iceland, NDB	66 05.8	23 02.8	
ITF	Alma, QC, DME	48 30.3	71 37.9	18W
ITH	Thompson, MB, DME	55 47.9	97 52.3	5E
ITL	Vancouver, BC, DME	49 12.3	123 11.8	19E
ITZ	Toronto/City Centre, ON, DME	43 37.6	79 24.0	11W
IUL	Montreal, QC, DME	45 27.9	73 45.8	15W
IUY	Rouyn, QC, DME	48 12.7	78 49.1	13W
IV	Island Lake, MB, DME	53 51.2	94 39.2	1E
IVR	Vancouver, BC, DME	49 11.3	123 12.1	19E
IXC	Cranbrook, BC, DME	49 37.1	115 46.9	17E
IXD	Edmonton City Centre, AB, DME	53 34.1	113 30.7	17E
IXT	Terrace, BC, DME	54 27.7	128 35.3	22E
IYC	Calgary, AB, DME	51 06.0	114 01.4	18E
IYJ	Victoria, BC, DME	48 39.2	123 26.1	19E
IZT	Port Hardy, BC, DME	50 40.5	127 21.2	20E
I6R	Bromont, QC, DME	45 17.9	72 44.0	16W

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D12 RADIO NAVIGATION AND COMMUNICATIONS

RADIO NAVIGATION AIDS BY INDICATOR (Cont'd)

INDICATOR	NAME	(N)LAT	(W)LONG	VAR (Year)
J				
JA	Ilulissat, Gnd, DME	69 14.5	51 04.0	
JAN	Jan Mayen, Norway, NDB	70 56.7	8 40.2	
JB	Laberge (Whitehorse), YT, NDB	60 56.9	135 08.3	25E
JC	Rigolet, NL, NDB	54 10.6	58 26.1	25W
JH	Julianehaab, Gnd, NDB	60 43.5	46 02.0	
JT	Stephenville, NL, NDB	48 32.6	58 45.3	22W
JV	Ilulissat, Gnd, NDB	69 14.6	51 04.7	
JW	Pigeon, AB, NDB	51 02.7	114 37.8	17E
J7	108 Mile Airport, BC, NDB	51 44.6	121 20.2	20E
J7	108 Mile Airport, BC, DME	51 44.5	121 20.2	20E
K				
KBV	Bermuda, Bermuda, VOR	32 21.9	64 41.4	
KEF	Keflavik, Iceland, VORTAC	63 59.2	22 36.8	
KF	Keflavik, Iceland, NDB	63 59.1	22 43.9	
KP	Kopasker, Iceland, NDB	66 18.1	16 27.0	
KR	Squaw (Schefferville), QC, NDB	54 48.0	66 48.2	25W
KU	Kook Islands, Gnd, NDB	64 04.3	52 01.0	
KZ	Buttonville, ON, NDB	43 56.0	79 19.8	11W
K2	Olds-Didsbury, AB, NDB	51 42.6	114 06.5	17E
K5	Maple Creek, SK, NDB	49 53.8	109 29.0	14E
K7	Ste-Anne-des-Monts, QC, NDB	49 07.7	66 33.0	21W
K8	Nemiscau, QC, NDB	51 41.3	76 08.1	17W
L				
LA	Langholt, Iceland, NDB	65 34.6	19 29.3	
LAJ	Lajes, Azores, TACAN	38 42.8	27 06.9	
LF	La Salle, MB, NDB	49 38.6	97 18.0	5E
LM	Lajes, Azores, VOR	38 47.0	27 06.3	
LT	Alert, NU, NDB	82 31.6	62 12.7	64W
LU	Cultus (Abbotsford), BC, NDB	49 01.3	122 03.0	19E
LW	Kelowna, BC, NDB	50 03.7	119 25.0	18E
L4	Nipawin, SK, NDB	53 20.1	104 00.5	11E
L7	Estevan, SK, NDB	49 12.6	102 51.6	10E

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RADIO NAVIGATION AND COMMUNICATIONS D13

RADIO NAVIGATION AIDS BY INDICATOR (Cont'd)

INDICATOR	NAME	(N)LAT	(W)LONG	VAR (Year)
M				
MA	Malarrif, Iceland, NDB	64 43.7	23 48.5	
MA	Mayo, YT, NDB	63 37.7	135 53.6	27E
MAR	Marmorilik, Gnd, NDB	71 07.7	51 13.3	
MB	Mill Bay (Victoria Intl), BC, NDB	48 40.3	123 32.2	19E
ME	Matane, QC, NDB	48 50.0	67 33.0	20W
MG	West Arm (Cambridge Bay), NU, NDB	69 06.1	105 07.0	14E
MGL	Sao Miguel, Azores, NDB	37 44.0	25 35.0	
ML	Charlevoix, QC, NDB	47 37.4	70 19.5	18W
MLP	Mullan Pass, ID, VOR/DME	47 27.4	115 38.7	20E (1980)
MM	Fort McMurray, AB, NDB	56 39.2	111 20.2	17E
MO	Moosonee, ON, NDB	51 16.9	80 37.7	13W
MQ	Miquelon, France, NDB	47 05.7	56 23.3	21W
MSS	Massena, NY (Cornwall Regional, ON), VORTAC ...	44 54.9	74 43.4	14W (1980)
MT	Chiboo (Chapais), QC, NDB	49 48.0	74 29.7	17W
M3	Kindersley, SK, NDB	51 31.0	109 10.7	14E
M4	Gimli, MB, NDB	50 38.0	97 02.6	4E
M5	Manning, AB, NDB	56 56.9	117 37.7	21E
M5	Manning, AB, DME	56 57.0	117 37.7	21E
M9	Kathlyn (Smithers), BC, NDB	54 49.5	127 10.8	22E
N				
NA	Narsarsuaq, Gnd, NDB	61 10.3	45 24.7	
NB	Botn, Iceland, NDB	65 19.7	18 17.7	
NE	Norway House, MB, DME	53 58.3	97 50.5	5E
NF	Nordfjordur, Iceland, NDB	65 08.0	13 44.6	
NI	Assiniboia, SK, NDB	49 43.7	105 57.0	12E
NL	Signal Hill (St. John's), NL, NDB	47 34.5	52 41.1	21W
NM	Matagami, QC, NDB	49 43.4	77 44.5	15W
NN	Nanortalik, Gnd, NDB	60 08.7	45 15.3	
NQ	Narsarsuaq, Gnd, DME	61 09.7	45 24.6	33W
NS	Narsaaq, Gnd, NDB	60 54.0	46 01.0	
NS	Nes (Reykjavik), Iceland, NDB	64 08.1	21 57.8	
NWU	Bermuda NAS (Kindley), Bermuda, NDB	32 15.8	64 52.1	
NY	Enderby, BC, NDB	50 39.0	118 55.5	19E
N4	Swan River, MB, NDB	52 06.9	101 14.1	8E
N5	Rocky Two (Rocky Mtn. House), AB, NDB	52 25.8	114 54.5	18E
N9	Tumbler Ridge, BC, NDB	55 01.6	120 56.2	21E

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D14 RADIO NAVIGATION AND COMMUNICATIONS

RADIO NAVIGATION AIDS BY INDICATOR (Cont'd)

INDICATOR	NAME	(N)LAT	(W)LONG	VAR (Year)
O				
OG	Ogur, Iceland, NDB	66 02.6	22 41.3	
OJ	High Level, AB, NDB	58 33.2	117 07.3	21E
OK	Keflavik, Iceland, NDB	64 03.0	22 36.3	
OLM	Olympia, WA, VORTAC	46 58.3	122 54.1	19E (1995)
ON	Okanagan (Penticton), BC, NDB	49 20.6	119 34.1	18E
OO	Oshawa, ON, NDB	43 55.3	78 54.0	11W
OU	Ste-Foy (Québec/Jean Lesage Intl), QC, NDB	46 46.7	71 17.4	17W
OW	Ottawa, ON, NDB	45 21.6	75 33.7	14W
OZN	Prins Christian Sund, Gnd, NDB	60 03.5	43 09.8	
P				
PA	Patreksfjodur, Iceland, NDB	65 33.5	23 58.3	
PA	Prince Albert, SK, NDB	53 13.1	105 47.7	12E
PAE	Paine (Snohomish Co (Paine Fld)), WA, VOR/DME	47 55.2	122 16.7	20E (1990)
PD	Port Hawkesbury, NS, NDB	45 39.3	61 16.2	20W
PE	Peace River, AB, NDB	56 12.0	117 31.9	20E
PEC	Jasper-Hinton, AB, DME	53 19.3	117 45.3	19E
PFT	Piney Pinecreek, MB, NDB	48 59.5	95 58.8	4E
PG	Portage (Southport), MB, NDB	49 50.5	98 10.8	6E
PH	Inukjuak, QC, NDB	58 28.1	78 04.4	21W
PJ	Robinson (Whitehorse), YT, NDB	60 26.4	134 51.7	25E
PL	Pickle Lake, ON, DME	51 26.6	90 13.4	3W
PN	Port-Menier, QC, NDB	49 50.3	64 23.2	22W
PR	Prince Rupert, BC, NDB	54 15.8	130 25.4	22E
PT	Pelee Island, ON, NDB	41 46.8	82 40.2	7W
PY	Fort Chipewyan, AB, NDB	58 45.7	111 06.5	18E
PZ	Wetaskiwin, AB, NDB & DME	52 58.0	113 24.7	17E
Q				
QB	Quebec, QC, NDB	46 45.0	71 27.8	17W
QD	The Pas, MB, NDB	53 58.7	101 04.9	8E
QG	Windsor, ON, NDB	42 18.8	82 52.1	7W
QH	Watson Lake, YT, NDB	60 10.6	128 50.8	25E
QI	Yarmouth, NS, NDB	43 47.6	66 07.6	18W
QL	Lethbridge, AB, NDB	49 36.3	112 53.6	16E
QM	Moncton, NB, NDB	46 06.6	64 34.9	20W
QN	Nakina, ON, NDB	50 10.8	86 37.8	6W
QQ	Comox, BC, NDB	49 45.2	124 57.5	19E
QR	Regina, SK, NDB	50 22.2	104 34.4	11E
QT	Thunder Bay, ON, NDB	48 20.8	89 26.0	3W
QU	Grande Prairie, AB, NDB	55 08.3	118 48.9	20E
QV	Yorkton, SK, NDB	51 13.0	102 32.5	10E
QW	North Battleford (Cameron McIntosh), SK, NDB	52 48.2	108 20.1	14E
QX	Gander, NL, NDB	48 57.9	54 40.1	22W
QY	Sydney, NS, NDB	46 12.7	59 58.5	20W
Q1	Tadoule Lake, MB, NDB	58 42.6	98 30.3	5E
Q5	Grande Cache, AB, NDB	53 55.1	118 52.1	20E
Q5	Grande Cache, AB, DME	53 55.1	118 52.8	20E

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RADIO NAVIGATION AND COMMUNICATIONS D15

RADIO NAVIGATION AIDS BY INDICATOR (Cont'd)

INDICATOR	NAME	(N)LAT	(W)LONG	VAR (Year)
R				
RB	Resolute Bay, NU, NDB	74 44.8	94 59.7	35W
RE	Reykjaneskoli, Iceland, NDB	65 55.6	22 25.9	
RF	Rif, Iceland, NDB	64 54.7	23 49.4	
RG	Raufarhofn, Iceland, NDB	66 27.2	15 57.2	
RH	Reykholt, Iceland, NDB	64 39.9	21 17.6	
RI	Riviere-du-Loup, QC, NDB	47 45.8	69 34.7	19W
RJ	Roberval, QC, NDB	48 32.7	72 17.7	18W
RK	Reykjavik, Iceland, NDB	64 09.1	22 01.8	
RL	Red Lake, ON, NDB	51 03.7	93 47.1	1E
RN	Reykjanes, Iceland, NDB	63 48.9	22 42.9	
RT	Rankin Inlet, NU, NDB	62 49.5	92 06.6	7W
RU	Cape Martyr (Resolute Bay), NU, NDB	74 40.5	94 55.8	34W
R1	Thetford Mines, QC, NDB	46 02.7	71 16.1	17W
R5	Pukatawagan, MB, NDB	55 45.0	101 15.7	8E
S				
SA	Skagi, Iceland, NDB	64 18.4	21 58.3	
SB	Sudbury, ON, NDB	46 38.9	80 55.4	11W
SC	Scoresbysund, Gnd, NDB	70 29.2	21 57.6	
SC	Sherbrooke, QC, NDB	45 28.5	71 47.3	16W
SD	Slettuhlid, Iceland, NDB	66 04.0	19 20.1	
SEA	Seattle, WA, VORTAC	47 26.1	122 18.6	22E (1965)
SF	Sondre Stromfjord, Gnd, NDB	66 58.1	50 56.7	
SI	Simiutaq, Gnd, NDB	60 41.0	46 36.0	
SJ	Saint John, NB, NDB	45 23.5	65 49.1	19W
SK	Strandhofn, Iceland, NDB	65 54.3	14 38.9	
SM	Skagata, Iceland, NDB	66 07.2	20 06.2	
SM	Fort Smith, NT, NDB	59 58.3	111 51.4	19E
SMA	Santa Maria, Azores, NDB	36 59.8	25 10.6	
SN	St. Catharines, ON, NDB	43 08.8	79 15.3	10W
SP	St-Pierre, France, DME	46 46.0	56 10.2	21W
SP	St-Pierre, France, NDB	46 45.8	56 10.2	21W
SR	Skardsfjara, Iceland, NDB	63 31.0	17 58.9	
SR	Fort Mackay/Firebag AB, DME	57 16.0	110 58.5	
SS	Fjord (Sondrestrom), Gnd, TACAN	67 01.0	50 42.7	
SSM	Sault Ste. Marie, MI, VOR/DME	46 24.7	84 18.9	4W (1965)
ST	Sukkertoppen, Gnd, NDB	65 25.2	52 54.5	
STA	Santa Maria, Azores, NDB	36 56.9	25 10.0	
SU	Stykkisholmur, Iceland, NDB	65 03.5	22 46.0	
SX	Skookum (Cranbrook), BC, NDB	49 57.3	115 47.5	17E
S7	Hanover, ON, NDB	44 09.7	81 03.6	9W
T				
TH	Thompson, MB, NDB	55 47.7	97 51.2	5E
TH	Thorshofn, Iceland, NDB	66 15.1	15 16.1	
THT	Thule, Gnd, VORTAC	76 32.5	68 14.5	
TK	Telkwa (Smithers), BC, NDB	54 40.2	126 59.6	22E
TOU	Tatoosh, WA, VORTAC	48 18.0	124 37.6	22E (1980)
TRM	Lajes, Azores, TACAN	38 45.6	27 05.5	
TS	Timmins, ON, NDB	48 33.9	81 27.2	11W
TV	Turner Valley, AB, NDB	50 45.0	114 22.1	17E
TZ	Gibraltar Point (Toronto/City Centre), ON, NDB	43 36.8	79 23.1	11W
T8	St-Frederic, QC, NDB	46 20.1	70 57.6	17W

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D16 RADIO NAVIGATION AND COMMUNICATIONS

RADIO NAVIGATION AIDS BY INDICATOR (Cont'd)

INDICATOR	NAME	(N)LAT	(W)LONG	VAR (Year)
U				
UAB	Anahim Lake, BC, NDB	52 22.8	125 10.9	21E
UAC	Eric (Poste Montagnais) QC, NDB	51 53.0	65 43.0	22W
UAU	McKay (Thunder Bay), ON, TACAN	48 22.4	89 19.7	1W (1985)
UAW	Shearwater, NS, TACAN	44 38.0	63 30.0	19W
UDE	Delta, MB, NDB	50 10.0	98 18.4	6E
UFX	St-Felix-de-Valois (Lourdes-de-Joliette), QC, NDB ..	46 11.5	73 25.1	16W
UHA	Quaqtaq, QC, NDB	61 02.6	69 37.6	30W
UHU	St-Hubert, QC, TACAN	45 31.0	73 24.9	15W (1995)
UL	Montreal, QC, NDB	45 27.6	73 50.9	15W
ULT	Alert, NU, TACAN	82 31.0	62 18.7	(Grid)
UM	Churchill Falls, NL, NDB	53 35.4	64 14.1	24W
UM	Uummanaq, Gnd, NDB	70 40.0	52 07.1	
UNT	Naramata (Penticton), BC, NDB	49 35.8	119 36.2	18E
UOD	Cold Lake, AB, TACAN	54 24.5	110 17.8	16E (2004)
UP	Upernavik, Gnd, NDB	72 47.6	56 09.2	
UQQ	Comox, BC, TACAN	49 42.7	124 53.7	19E (2005)
UTR	Trenton, ON, TACAN	44 07.3	77 31.7	12W (1995)
UWP	Argentia, NL, NDB	47 17.7	53 59.4	21W
UX	Hall Beach, NU, NDB	68 46.0	81 15.4	36W
UYR	Goose, NL, TACAN	53 19.2	60 25.0	24W (2005)
UYT	St. John's Intl, NL, TACAN	47 37.6	52 44.9	24W (1990)
UZV	Sept-Iles, QC, TACAN	50 13.4	66 16.0	20W (2005)
UZX	Greenwood, NS, TACAN	44 59.0	64 55.2	19W (2007)
U6	Creston, BC, NDB	49 02.6	116 28.8	17E
V				
VBI	Sioux Narrows (Kenora), ON, VORTAC	49 28.6	94 02.8	4E (1985)
VBS	Saguenay, QC, VOR/DME	48 01.0	71 16.2	19W (1995)
VC	La Ronge, SK, NDB	55 05.2	105 19.1	12E
VE	Vellir, Iceland, NDB	65 10.8	14 32.8	
VG	Vermilion, AB, NDB	53 20.3	110 47.8	16E
VIE	Coehill, ON, VOR/DME	44 39.7	77 53.3	12W (1995)
VLN	Lumsden, SK, VORTAC	50 40.0	104 53.4	10E (2010)
VLR	Langruth, MB, VORTAC	50 25.3	98 43.4	5E (2010)
VLV	Beauce (St-Georges), QC, VOR/DME	45 55.5	70 50.8	18W (1995)
VM	Vestmannaeyjar, Iceland, NDB	63 24.0	20 17.3	
VP	Kujack (Kuujuuaq), QC, NDB	58 03.4	68 29.2	27W
VP	Vopnafjordur, Iceland, NDB	65 43.0	14 51.3	
VQ	Norman Wells, NT, NDB	65 15.2	126 40.2	28E
VR	Vancouver, BC, NDB	49 10.4	123 03.4	19E
VSM	Santa Maria, Azores, VOR	36 57.7	25 10.0	
VT	Buffalo Narrows, SK, NDB	55 51.3	108 29.1	15E
VV	Warton, ON, NDB	44 41.9	81 10.8	10W
VX	Dafoe, SK, NDB	51 52.4	104 34.2	11E
V1	Moose Jaw Muni, SK, NDB	50 26.0	105 23.2	12E
V2	Humboldt, SK, NDB	52 10.5	105 07.5	12E
V4	Bonnyville, AB, NDB	54 18.3	110 44.7	16E
V6	Salmon Arm, BC, NDB	50 41.2	119 14.0	19E
V6	Salmon Arm, BC, DME	50 41.1	119 14.6	19E

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RADIO NAVIGATION AND COMMUNICATIONS D17

RADIO NAVIGATION AIDS BY INDICATOR (Cont'd)

INDICATOR	NAME	(N)LAT	(W)LONG	VAR (Year)
W				
WC	White Rock (Abbotsford), BC, NDB	49 00.2	122 45.0	19E
WG	Winnipeg, MB, NDB.....	49 54.0	97 21.0	5E
WJ	Deline, NT, NDB	65 11.2	123 25.1	28E
WL	Williams Lake, BC, NDB	52 08.2	121 58.4	20E
WY	Wrigley, NT, NDB	63 12.8	123 25.8	27E
W4	Jenpeg, MB, NDB	54 31.2	98 02.6	5E
W6	Creston North, BC, NDB	49 10.6	116 36.3	17E
W7	Pabok (Du Rocher-Percé), QC, NDB	48 22.9	64 33.9	21W
X				
XBE	Bearskin Lake, ON, NDB	53 57.6	91 02.1	3W
XBG	Bagotville, QC, TACAN	48 19.8	70 59.7	20W (1985)
XC	Cranbrook, BC, NDB	49 41.0	115 47.0	17E
XCG	Castlegar, BC, DME	49 15.1	117 39.8	18E
XD	Edmonton, AB, NDB	53 38.6	113 30.8	18E
XE	Saskatoon, SK, NDB	52 11.4	106 48.8	13E
XG	Lakeshore (Watson Lake), YT, NDB	60 06.8	128 48.0	25E
XH	Medicine Hat, AB, NDB	50 00.8	110 48.0	15E (2003)
XJ	Fort St. John, BC, NDB	56 17.1	120 50.7	22E
XL	Sioux Lookout, ON, DME	50 07.1	91 53.9	1W
XPP	Kamloops, BC, DME	50 42.4	120 27.6	19E
XS	Prince George, BC, NDB	53 49.7	122 39.2	21E
XT	Terrace, BC, NDB	54 22.4	128 35.0	22E
XU	London, ON, NDB	43 05.5	81 13.1	9W
XX	Abbotsford, BC, NDB	49 00.9	122 29.3	19E
XY	Whitehorse, YT, NDB	60 46.4	135 06.3	25E
XYF	Penticton, BC, DME	49 27.2	119 36.2	18E
XZ	Wawa, ON, NDB	48 01.3	84 44.8	7W
X2	Athabasca, AB, NDB	54 44.3	113 12.0	18E
X5	Vegreville, AB, NDB	53 30.8	112 02.7	17E
X7	Donaldson, QC, VOR/DME	61 39.6	73 19.0	28W (2005)

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D18 RADIO NAVIGATION AND COMMUNICATIONS

RADIO NAVIGATION AIDS BY INDICATOR (Cont'd)

INDICATOR	NAME	(N)LAT	(W)LONG	VAR (Year)
Y				
YAC	Cat Lake, ON, NDB	51 43.9	91 49.6	1W
YAG	Fort Frances, ON, NDB	48 41.4	93 32.3	1E
YAN	Ameson, ON, VOR/DME	49 46.7	84 35.5	8W (1995)
YAQ	Kasabonika, ON, NDB	53 31.7	88 37.7	6W
YAS	Kangirsuk, QC, NDB	60 01.5	70 00.3	29W
YAT	Wapisk (Attawapiskat), ON, NDB	52 55.8	82 26.1	12W
YAY	St. Anthony, NL, VOR/DME	51 23.6	56 05.0	21W (2010)
YAZ	Tofino, BC, NDB	49 02.8	125 42.3	19E
YBB	Pelly Bay (Kugaaruk), NU, NDB	68 32.1	89 47.3	25W
YBC	Baie-Comeau, QC, VOR/DME	49 08.0	68 13.3	22W (1990)
YBE	Uranium City, SK, NDB	59 33.3	108 31.1	16E
YBG	Bagotville, QC, NDB	48 20.0	71 08.8	18W
YBK	Baker Lake, NU, VOR/DME	64 19.1	96 06.3	(True)
YBL	Campbell River, BC, NDB	50 00.4	125 21.5	20E
YBM	St-Bruno-de-Guigues, QC, NDB	47 27.1	79 25.5	12W
YBR	Brandon, MB, VORTAC	49 54.6	99 56.7	10E (1985)
YBV	Berens River, MB, NDB	52 21.3	97 01.5	4E
YBW	Springbank, AB, VOR/DME	51 06.4	114 22.4	16E (2010)
YC	Calgary, AB, NDB	51 04.9	113 54.5	17E
YCB	Cambridge Bay, NU, VOR/DME	69 07.1	105 10.4	(True)
YCD	Nanaimo, BC, NDB	49 07.7	123 52.3	19E
YCF	Campbellford, ON, VORTAC	44 20.0	77 42.3	12W (1995)
YCO	Coppermine (Kugluktuk), NU, NDB	67 49.3	115 05.9	27E
YCS	Chesterfield Inlet, NU, NDB	63 20.3	90 43.8	10W
YCY	Clyde River, NU, NDB	70 29.1	68 31.6	46W
YD	Smithers, BC, NDB	54 44.9	127 06.5	22E
YDC	Princeton, BC, VORTAC	49 22.9	120 22.4	21E (1985)
YDF	Deer Lake, NL, VOR/DME	49 14.0	57 12.8	21W (2010)
YDL	Dease Lake, BC, NDB	58 27.2	129 59.8	24E
YDN	Dauphin, MB, VOR/DME	51 06.3	100 03.2	10E (1985)
YDP	Nain, NL, NDB	56 32.0	61 41.5	27W
YDR	Broadview, SK, VORTAC	50 21.8	102 32.4	12E (1985)
YE	Fort Nelson, BC, NDB	58 47.8	122 43.4	24E
YEA	Empress, AB, VORTAC	50 55.6	109 59.3	17E (1990)
YEE	Midland, ON, VOR/DME	44 34.9	79 47.6	10W (1995)
YEG	Edmonton, AB, VORTAC	53 11.1	113 52.0	17E (2005)
YEK	Arviat, NU, NDB	61 05.9	94 04.1	3W
YEL	Elliot Lake, ON, NDB	46 22.3	82 37.7	9W
YER	Fort Severn, ON, NDB	55 59.6	87 38.4	8W
YEU	Eureka, NU, NDB	79 59.5	85 53.9	75W
YEV	Inuvik, NT, VOR/DME	68 18.5	133 32.9	30E (2005)
YFA	Fort Albany, ON, NDB	52 12.4	81 41.7	12W
YFB	Frobay (Iqaluit), NU, VOR	63 44.5	68 28.4	31W (2010)
YFC	Fredericton, NB, VORTAC	45 53.7	66 25.1	21W (1985)
YFH	Fort Hope, ON, NDB	51 33.9	87 54.7	6W
YFM	LG-4, QC, NDB	53 42.7	73 42.2	20W
YFS	Fort Simpson, NT, VOR/DME	61 46.4	121 17.9	25E (2005)
YFT	Makkovik, NL, NDB	55 04.8	59 11.3	26W
YFY	Frobay (Iqaluit), NU, NDB	63 44.0	68 32.9	34W
YGH	Fort Good Hope, NT, VOR/DME	66 14.2	128 37.4	25E (2010)
YGK	Kingston, ON, NDB	44 17.8	76 36.3	13W
YGL	La Grande Riviere, QC, VOR/DME	53 37.5	77 43.0	18W (1995)
YGO	Gods Lake Narrows, MB, NDB	54 33.4	94 28.9	1E
YGP	Gaspe, QC, VOR/DME	48 45.8	64 24.3	22W (1995)

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RADIO NAVIGATION AND COMMUNICATIONS D19

RADIO NAVIGATION AIDS BY INDICATOR (Cont'd)

INDICATOR	NAME	(N)LAT	(W)LONG	VAR (Year)
Y (Cont'd)				
YGQ	Geraldton, ON, VOR/DME	49 46.2	86 59.1	5W (1995)
YGR	Grindstone (Îles-de-la-Madeleine), QC, VOR/DME	47 25.8	61 46.4	20W (2010)
YGT	Igloolik, NU, NDB	69 22.3	81 49.1	37W
YGV	Havre St-Pierre, QC, NDB	50 15.9	63 39.9	22W
YGX	Gillam, MB, NDB	56 21.2	94 42.0	1E
YGZ	Grise Fiord, NU, NDB	76 25.4	82 53.2	60W
YHD	Dryden, ON, NDB	49 51.9	92 51.0	0
YHK	Gjoa Haven, NU, NDB	68 37.6	95 51.5	8W
YHN	Homepayne, ON, NDB	49 12.5	84 39.5	8W
YHR	Chevery, QC, NDB	50 27.9	59 38.1	23W
YHY	Hay River, NT, VOR/DME	60 50.2	115 48.2	22E (2005)
YHZ	Halifax, NS, VOR/DME	44 55.4	63 24.1	21W (1990)
YIF	St-Augustin, QC, NDB	51 11.3	58 39.1	23W
YIK	Ivujivik, QC, NDB	62 24.8	77 55.6	26W
YIO	Pond Inlet, NU, NDB	72 41.6	77 57.1	51W
YIV	Island Lake, MB, NDB	53 51.2	94 39.2	1E
YJ	Victoria, BC, NDB	48 38.6	123 24.0	19E
YJF	Fort Liard, NT, NDB	60 14.3	123 27.9	25E
YJI	Broughton (Qikiqtarjuaq), NU, NDB	67 33.7	64 01.0	40W
YJN	St-Jean, QC, VORTAC	45 15.3	73 19.3	16W (1995)
YJQ	Bella Bella, BC, NDB	52 11.1	128 06.8	21E
YJT	Stephenville, NL, VORTAC	48 34.9	58 40.2	21W (2005)
YK	Brilliant (Castlegar), BC, NDB	49 19.5	117 38.0	18E
YKA	Kamloops, BC, NDB	50 41.0	120 20.1	19E
YKD	Aklavik, NT, NDB	68 13.6	135 00.9	30E
YKG	Kangiqsuujuaq, QC, NDB	61 35.4	71 55.7	30W
YKJ	Key Lake, SK, VOR/DME	57 10.0	105 50.5	13E (2005)
YKL	Schefferville, QC, VOR/DME	54 48.9	66 45.3	24W (2005)
YKO	Akulivik, QC, NDB	60 49.2	78 09.3	24W
YKQ	Waskaganish, QC, NDB	51 29.2	78 44.7	15W
YKX	Kirkland Lake, ON, NDB	48 13.6	79 52.2	12W
YL	Lynn Lake, MB, NDB	56 49.9	101 04.2	8E
YLA	Aupaluk, QC, NDB	59 18.2	69 36.1	28W
YLB	Lac La Biche, AB, NDB	54 45.4	112 00.2	17E
YLC	Kimmirut, NU, NDB	62 51.1	69 52.5	32W
YLD	Chapleau, ON, NDB	47 45.4	83 24.8	9W
YLH	Lansdowne House, ON, NDB	52 11.8	87 56.3	6W
YLJ	Meadow Lake, SK, NDB	54 08.3	108 39.0	15E
YLL	Lloydminster, AB, NDB	53 18.8	110 05.0	15E
YLQ	La Tuque, QC, NDB	47 25.0	72 47.2	17W
YLU	Kangiqsuualujjuaq, QC, NDB	58 42.4	65 59.4	29W
YMG	Manitouwadge, ON, NDB	49 02.9	85 54.1	7W
YMH	Mary's Harbour, NL, NDB	52 18.9	55 49.9	24W
YMJ	Moose Jaw, SK, VORTAC	50 19.9	105 33.8	12E
YMM	Fort McMurray, AB, VOR/DME	56 38.8	111 07.3	17E (2005)
YMO	Moosonee, ON, VOR/DME	51 17.5	80 36.4	13W (1995)
YMS	Mans, ON, VORTAC	44 08.6	80 08.8	9W (1990)
YMT	Chiboo (Chapais), QC, DME	49 48.0	74 29.7	17W
YMU	Umiujaq, QC, NDB	56 32.2	76 31.4	20W
YMW	Maniwaki, QC, NDB	46 12.5	75 57.4	14W
YMX	Mirabel, QC, VOR/DME	45 53.3	74 22.5	15W (1995)
YMY	Ear Falls, ON, NDB	50 43.2	93 22.7	1E
YNA	Natash, QC, VOR/DME	50 11.0	61 46.9	21W (2010)
YNC	Wemindji, QC, NDB	53 00.5	78 49.5	15W

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D20 RADIO NAVIGATION AND COMMUNICATIONS

RADIO NAVIGATION AIDS BY INDICATOR (Cont'd)

INDICATOR	NAME	(N)LAT	(W)LONG	VAR (Year)
		Y (Cont'd)		
YNE	Norway House, MB, NDB	53 58.3	97 50.4	5E
YNY	Enderby, BC, VORTAC	50 40.7	118 56.3	21E (1990)
YOC	Old Crow, YT, NDB	67 34.3	139 50.8	29E
YOD	Cold Lake, AB, NDB	54 23.8	110 16.3	16E
YOG	Ogoki Post, ON, NDB	51 39.6	85 54.1	8W
YOJ	High Level, AB, VOR/DME	58 33.3	117 05.6	21E (2005)
YOP	Rainbow Lake, AB, NDB	58 27.4	119 15.1	22E
YOW	Ottawa, ON, VORTAC	45 26.5	75 53.8	14W (1995)
YPA	Prince Albert, SK, VOR/DME	53 13.0	105 40.0	14E (1995)
YPC	Paulatuk, NT, NDB	69 21.1	124 04.2	32E
YPE	Peace River, AB, VOR/DME	56 12.4	117 30.7	20E (2005)
YPG	Portage (Southport), MB, VOR/DME	49 54.0	98 16.0	8E (1990)
YPK	Pitt Meadows, BC, VOR	49 13.0	122 42.9	21E (1990)
YPL	Pickle Lake, ON, NDB	51 26.5	90 13.3	3W
YPM	Pikangikum, ON, NDB	51 49.4	93 58.4	1E
YPO	Peawanuck, ON, NDB	54 59.5	85 26.6	10W
YPP	Parent, QC, NDB	47 53.4	74 40.3	16W
YPQ	Peterborough, ON, NDB	44 12.8	78 27.5	12W
YPW	Powell River, BC, NDB	49 50.2	124 30.1	19E
YPX	Puvimituq, QC, NDB & DME	60 02.6	77 16.8	23W
YQ	Churchill, MB, NDB	58 45.8	93 57.2	1W
YQA	Muskoka, ON, NDB	45 02.4	79 17.0	11W
YQB	Quebec, QC, VORTAC	46 42.3	71 37.6	18W (1995)
YQD	The Pas, MB, VOR/DME	53 58.4	101 06.0	11E (1990)
YQF	Red Deer, AB, NDB	52 07.7	113 54.0	17E
YQG	Windsor, ON, VOR/DME	42 15.0	82 49.7	6W (1990)
YQH	Watson Lake, YT, VOR/DME	60 05.2	128 51.5	25E (2005)
YQI	Yarmouth, NS, VOR/DME	43 49.5	66 05.0	19W (1995)
YQK	Kenora, ON, NDB	49 47.5	94 25.5	2E
YQL	Lethbridge, AB, VOR/DME	49 38.1	112 40.1	18E (1990)
YQM	Moncton, NB, VORTAC	46 11.3	64 34.3	22W (1990)
YQO	Aylmer (St. Thomas Muni), ON, VOR/DME	42 42.4	80 53.3	8W (1995)
YQT	Thunder Bay, ON, VORTAC	48 15.2	89 26.2	1W (1990)
YQU	Grande Prairie, AB, VOR/DME	55 10.5	119 01.8	20E (2005)
YQV	Yorkton, SK, VORTAC	51 15.8	102 28.1	12E (1990)
YQX	Gander, NL, VORTAC	48 54.0	54 32.1	20W (2010)
YQY	Sydney, NS, VORTAC	46 09.2	60 03.3	22W (1995)
YQZ	Quesnel, BC, NDB	52 57.6	122 29.2	20E
YR	Goose, NL, NDB	53 20.3	60 22.0	24W
YRB	Resolute Bay, NU, VOR/DME	74 43.7	94 55.4	(True)
YRC	St-Honore, QC, NDB	48 32.2	71 09.5	18W
YRI	Riviere-du-Loup, QC, VOR	47 45.5	69 35.4	20W (1995)
YRL	Red Lake, ON, VOR/DME	51 04.3	93 45.7	3E (1985)
YRM	Rocky Mtn. House, AB, VOR/DME	52 30.1	115 19.4	16E (2010)
YRQ	Trois-Rivieres, QC, NDB	46 22.2	72 39.9	16W
YRR	Greely (Ottawa/Macdonald-Cartier Intl), ON, NDB ...	45 16.1	75 34.4	14W
YRT	Rankin Inlet, NU, VOR/DME	62 48.8	92 07.0	(True)
YSB	Sudbury, ON, VOR/DME	46 37.8	80 47.9	10W (1995)
YSC	Sherbrooke, QC, VORTAC	45 19.0	71 47.3	17W (1995)
YSF	Stony Rapids, SK, NDB	59 15.3	105 50.2	14E
YSH	Smiths Falls, ON, NDB	44 54.1	76 00.6	14W
YSJ	Saint John, NB, VOR/DME	45 24.4	65 52.3	21W (1985)
YSK	Sanikiluaq, NU, NDB	56 32.5	79 12.8	18W
YSL	St. Leonard, NB, NDB	47 12.5	67 52.2	19W
YSM	Fort Smith, NT, VOR/DME	60 01.2	111 58.2	19E (2005)

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RADIO NAVIGATION AND COMMUNICATIONS D21

RADIO NAVIGATION AIDS BY INDICATOR (Cont'd)

INDICATOR	NAME	(N)LAT	(W)LONG	VAR (Year)
Y (Cont'd)				
YSO	Simcoe (Lindsay), ON, VOR/DME	44 14.3	79 10.3	10W (1990)
YSP	Marathon, ON, VOR/DME	48 44.6	86 19.7	5W (1990)
YSQ	Atlin, BC, NDB	59 37.6	133 40.6	25E
YSR	Nanisivik, NU, NDB	72 58.5	84 32.0	47W
YSY	Sachs Harbour, NT, NDB	71 59.5	125 18.9	35E
YTA	Pembroke, ON, NDB	45 48.2	77 13.2	13W
YTE	Cape Dorset, NU, NDB	64 13.7	76 31.7	31W
YTF	Alma, QC, NDB	48 30.5	71 39.0	18W
YTH	Thompson, MB, VOR/DME	55 48.7	97 49.5	3E (2010)
YTL	Big Trout Lake, ON, NDB	53 48.9	89 54.8	4W
YTP	Pearson (Toronto/LBP Intl), ON, VOR/DME	43 40.3	79 39.9	10W (1995)
YTQ	Tasiujaq, QC, NDB	58 40.3	69 56.8	27W
YTR	Trenton, ON, NDB	44 11.6	77 24.2	12W
YTS	Timmins, ON, VOR/DME	48 34.3	81 22.2	10W (1985)
YU	Kapuskasing, ON, DME	49 24.7	82 27.9	10W
YUB	Tuktoyaktuk, NT, NDB	69 26.1	133 01.0	32E
YUL	Montreal, QC, VOR/DME	45 36.9	73 58.3	16W (1995)
YUT	Repulse Bay, NU, NDB	66 31.7	86 14.5	23W
YUX	Hall Beach, NU, VOR/DME	68 46.7	81 14.4	(True)
YUY	Rouyn, QC, NDB	48 10.4	78 56.3	13W
YVB	Bonaventure, QC, NDB	48 06.2	65 33.9	20W
YVC	La Ronge, SK, VOR/DME	55 09.5	105 16.0	12E (2005)
YVO	Val-d'Or, QC, VOR/DME	48 10.5	77 49.2	14W (1995)
YVP	Kujack (Kuujuuaq), QC, VOR/DME	58 05.8	68 25.6	27W (2005)
YVQ	Norman Wells, NT, VOR/DME	65 15.9	126 43.5	28E (2005)
YVR	Vancouver, BC, VORTAC	49 04.6	123 08.9	21E (1990)
YVV	Warton, ON, VORTAC	44 44.7	81 06.3	8W (1985)
YVZ	Deer Lake, ON, NDB	52 38.9	94 03.4	1E
YWA	Petawawa, ON, NDB	45 53.7	77 16.3	13W
YWB	Westbank (Kelowna), BC, NDB	49 48.6	119 37.8	18E
YWG	Winnipeg, MB, VORTAC	49 55.7	97 14.4	7E (1985)
YWK	Wabush, NL, VOR/DME	52 57.6	66 51.2	22W (2010)
YWL	Williams Lake, BC, VORTAC	52 14.2	122 10.2	18E (2010)
YWP	Webequie, ON, NDB	52 57.6	87 22.1	7W
YWT	Waterloo, ON, VOR/DME	43 27.5	80 22.8	8W (1985)
YWV	Wainwright, AB, VOR/DME	52 58.9	110 50.0	14E (2010)
YWY	Wrigley, NT, VOR/DME	63 11.0	123 21.7	26E (2005)
YXC	Cranbrook, BC, VOR/DME	49 33.3	116 05.3	16E (2010)
YXE	Saskatoon, SK, VORTAC	52 10.9	106 43.2	11E (2010)
YXH	Medicine Hat, AB, VOR/DME	49 57.9	110 48.9	17E (1990)
YXI	Killaloe, ON, VOR/DME	45 39.8	77 36.2	12W (1985)
YXJ	Fort St. John, BC, VOR/DME	56 17.1	120 53.7	21E (2005)
YXK	Rimouski, QC, NDB	48 28.7	68 30.2	19W
YXL	Sioux Lookout, ON, NDB	50 07.1	91 53.9	1W
YXN	Whale Cove, NU, NDB	62 14.2	92 36.1	6W
YXP	Pangnirtung, NU, NDB	66 08.6	65 42.4	38W
YXQ	Beaver Creek, YT, NDB	62 24.5	140 51.7	25E
YXR	Earlton, ON, NDB	47 42.7	79 47.5	12W
YXS	Prince George, BC, VOR/DME	53 53.7	122 27.3	21E (2005)
YXU	London, ON, VORTAC	43 02.3	81 08.9	8W (1995)
YXY	Whitehorse, YT, VOR/DME	60 37.1	135 08.3	23E (2005)
YXZ	Wawa, ON, VOR/DME	47 57.0	84 49.4	6W (1985)
YY	Mont-Joli, QC, NDB	48 34.0	68 15.5	20W
YYB	North Bay, ON, VOR/DME	46 21.8	79 26.2	11W (1990)
YYC	Calgary, AB, VORTAC	51 06.9	113 52.9	15E (2010)

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D22 RADIO NAVIGATION AND COMMUNICATIONS

RADIO NAVIGATION AIDS BY INDICATOR (Cont'd)

INDICATOR	NAME	(N)LAT	(W)LONG	VAR (Year)
Y (Cont'd)				
YYD	Houston, BC, VOR/DME	54 27.1	126 39.1	20E (2010)
YYE	Fort Nelson, BC, VOR/DME	58 53.5	123 01.0	23E (2005)
YYF	Penticton, BC, NDB	49 29.3	119 36.1	18E
YYG	Charlottetown, PE, VOR/DME	46 17.9	63 07.2	22W (1990)
YYH	Taloyoak, NU, NDB	69 32.5	93 31.5	16W
YYJ	Victoria, BC, VOR/DME	48 43.6	123 29.1	21E (1990)
YYL	Lynn Lake, MB, VOR/DME	56 51.9	101 04.5	7E (2010)
YYN	Swift Current, SK, VOR/DME	50 17.8	107 41.5	12E (2010)
YYQ	Churchill, MB, VOR/DME	58 44.5	94 08.1	1E (1990)
YYR	Goose, NL, VOR/DME	53 19.2	60 17.7	24W (2005)
YYT	Torbay (St. John's Intl), NL, VOR/DME	47 29.1	52 51.1	20W (2010)
YYU	Kasing (Kapuskasig), ON, NDB	49 27.9	82 30.4	10W
YYW	Armstrong, ON, NDB	50 18.5	89 01.3	4W
YYY	Mont-Joli, QC, VOR/DME	48 36.7	68 12.5	22W (1985)
YYZ	Toronto, ON, VOR/DME	43 39.5	79 37.9	10W (1995)
YZA	Ashcroft, BC, NDB	50 42.1	121 19.2	19E
YZE	Gore Bay, ON, NDB	45 55.7	82 36.9	9W
YZF	Yellowknife, NT, VORTAC	62 27.9	114 26.2	22E (2005)
YZG	Salluit, QC, NDB	62 10.8	75 40.6	28W
YZH	Slave Lake, AB, NDB	55 17.9	114 46.4	19E
YZP	Sandspit, BC, VORTAC	53 15.1	131 48.4	23E (1995)
YZS	Coral Harbour, NU, NDB	64 08.9	83 18.3	23W
YZT	Port Hardy, BC, VORTAC	50 41.0	127 21.9	19E (2010)
YZU	Whitecourt, AB, VOR/DME	54 08.7	115 47.8	19E (2005)
YZV	Sept-Iles, QC, VOR	50 13.9	66 16.4	20W (2010)
YZX	Greenwood, NS, NDB	44 55.4	65 06.1	19W
Y3	Bonnyville, AB, DME	54 18.4	110 44.6	16E
Y5	Slave Lake, AB, DME	55 17.7	114 46.6	19E
Y8	Drummondville, QC, NDB	45 50.8	72 23.9	16W
Y9	Digby, NS, NDB	44 32.9	65 47.4	19W

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RADIO NAVIGATION AND COMMUNICATIONS D23

RADIO NAVIGATION AIDS BY INDICATOR (Cont'd)

INDICATOR	NAME	(N)LAT	(W)LONG	VAR (Year)
		Z		
ZAB	Leduc (Edmonton Intl), AB, NDB	53 14.6	113 29.4	17E
ZBM	Bromont, QC, NDB	45 14.5	72 47.8	16W
ZCH	Beluga (Churchill), MB, NDB	58 39.9	93 59.9	1W
ZDH	Rexdale (Toronto/LBP Intl), ON, NDB	43 44.3	79 34.3	10W
ZDV	Valois, Montreal/Pierre Elliott Trudeau Intl, QC, NDB	45 27.3	73 46.4	15W
ZEG	Nisku (Edmonton Intl), AB, NDB	53 23.7	113 29.7	17E
ZEM	Eastmain, QC, NDB	52 13.8	78 31.1	15W
ZET	Devon (Edmonton Intl), AB, NDB	53 21.2	113 40.4	18E
ZF	Yellowknife, NT, NDB	62 24.6	114 26.1	22E
ZFA	Faro, YT, NDB	62 12.7	133 23.2	26E
ZFD	Fond-du-Lac, SK, NDB	59 20.4	107 11.2	15E
ZFM	Fort McPherson, NT, NDB	67 24.6	134 52.4	30E
ZFN	Tulita, NT, NDB	64 54.4	125 33.9	28E
ZHA	Ancaster (Hamilton), ON, NDB	43 11.8	80 01.7	10W
ZHD	Barclay (Dryden Regional), ON, NDB	49 48.1	92 38.7	0
ZHM	Binbrook (Hamilton), ON, NDB	43 08.7	79 47.6	10W
ZHT	Forks (Winnipeg/James Armstrong Richardson Intl) MB, NDB	49 50.0	97 08.7	5E
ZHU	Hauts-Bois (Montréal/St-Hubert), QC, NDB	45 33.9	73 20.8	16W
ZHZ	Split Crow (Halifax/Stanfield Intl), NS, NDB	44 48.1	63 35.4	19W
ZJT	Harmon (Stephenville), NL, NDB	48 34.9	58 22.8	22W
ZKF	Wellington (Waterloo Regional), ON, NDB	43 29.6	80 17.2	10W
ZKI	Kitimat, BC, NDB	54 03.2	128 40.2	22E
ZL	Liard River, BC, NDB	59 28.1	126 08.6	25E
ZLP	Meadowvale (Toronto/LBP Intl), ON, NDB	43 37.7	79 43.9	10W
ZMM	Joly, Montreal Intl (Mirabel), QC, NDB	45 40.8	74 11.1	15W
ZMN	Lewisville (Moncton), NB, NDB	46 06.3	64 47.5	20W
ZMR	Hermas, Montreal Intl (Mirabel), QC, NDB	45 37.5	74 05.3	16W
ZMT	Jarry (Montréal/Pierre Elliott Trudeau Intl), QC, NDB	45 32.6	73 39.4	15W
ZMX	Janvier (Montréal Intl (Mirabel)), QC, NDB	45 44.5	73 55.2	15W
ZNF	Wabana (St. John's Intl), NL, NDB	47 37.2	52 52.0	21W
ZNS	Bluenose (Halifax/Stanfield Intl), NS, NDB	44 58.0	63 25.6	19W
ZOW	Moody (Ottawa/Macdonald-Cartier Intl), ON, NDB	45 16.7	75 45.0	14W
ZP	Sandspit, BC, NDB	53 11.8	131 46.6	22E
ZPA	Glass (Prince Albert), SK, NDB	53 13.0	105 32.7	12E
ZPB	Sachigo Lake, ON, NDB	53 53.7	92 11.5	2W
ZQM	Riverview (Moncton), NB, NDB	46 02.3	64 47.0	20W
ZQR	Findlay (Regina), SK, NDB	50 25.7	104 31.6	11E
ZQT	Superior (Thunder Bay), ON, NDB	48 23.8	89 13.4	3W
ZR	Sarnia, ON, NDB	42 56.4	82 14.0	8W
ZRG	Brophy (Regina), SK, NDB	50 25.7	104 47.5	11E
ZRJ	Round Lake, ON, NDB	52 56.9	91 19.4	2W
ZRS	Ajax (Regina), SK, NDB	50 29.1	104 44.2	11E
ZS	Coral Harbour, NU, DME	64 08.9	83 18.2	23W
ZSB	Noranda (Sudbury), ON, NDB	46 41.0	80 45.0	11W
ZSJ	Sandy Lake, ON, NDB	53 04.1	93 20.7	0
ZSS	Yellowhead (Saskatoon), SK, NDB	52 14.5	106 44.5	13E
ZST	Alpine (Saint John), NB, NDB	45 13.7	65 57.5	19W
ZT	Port Hardy, BC, NDB	50 42.0	127 25.6	20E
ZTH	Headframe (Thompson), MB, NDB	55 49.9	97 45.7	6E
ZTO	Woodhill (Toronto/LBP Intl), ON, NDB	43 44.3	79 42.2	10W
ZU	Whitcourt, AB, NDB	54 04.6	115 29.9	19E
ZUC	Ignace, ON, NDB	49 26.0	91 43.6	1W

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D24 RADIO NAVIGATION AND COMMUNICATIONS

RADIO NAVIGATION AIDS BY INDICATOR (Cont'd)

INDICATOR	NAME	(N)LAT	(W)LONG	VAR (Year)
Z (Cont'd)				
ZUL	Rockland (Montréal/Pierre Elliott Trudeau Intl), QC, NDB	45 31.4	73 39.2	15W
ZV	Sept-Iles, QC, NDB	50 12.2	66 09.1	21W
ZVR	Sea Island (Vancouver Intl), BC, NDB	49 11.5	123 13.2	19E
ZW	Teslin, YT, NDB	60 10.7	132 44.2	25E
ZWG	Stoney (Winnipeg/James Armstrong Richardson Intl), MB, NDB	49 59.4	97 13.2	5E
ZWL	Wollaston Lake, SK, NDB	58 06.5	103 10.8	10E
ZWN	Downs (Winnipeg/James Armstrong Richardson Intl), MB, NDB	49 57.8	97 19.3	5E
ZWW	Boine (Winnipeg/James Armstrong Richardson Intl), MB, NDB	49 49.8	97 15.4	5E
ZXD	Blatchford (Edmonton City Centre), AB, NDB	53 30.0	113 30.8	17E
ZXE	Barnes (Saskatoon/J.G. Diefenbaker), SK, NDB	52 09.7	106 34.5	13E
ZXJ	Taylor (Fort St. John), BC, NDB	56 11.0	120 38.7	22E
ZXS	Northwood (Prince George), BC, NDB	53 58.1	122 41.4	21E
ZXU	Thames (London), ON, NDB	42 58.9	81 05.3	9W
ZXY	Klondike (Whitehorse), YT, NDB	60 38.2	135 00.7	25E
ZYB	Yellek (North Bay), ON, NDB	46 19.9	79 31.6	12W
ZYC	Sarcee (Calgary), AB, NDB	51 11.8	114 01.3	17E
ZYQ	Polarbear (Churchill), MB, NDB	58 46.5	94 10.6	1W
ZYT	Outer Cove (St. John's Intl), NL, NDB	47 37.7	52 40.0	21W
ZYZ	Queensway (Toronto/LBP Intl), ON, NDB	43 37.2	79 32.9	10W
ZZD	Calmar (Edmonton Intl), AB, NDB	53 15.3	113 39.6	17E
ZZP	Dead Tree (Sandspit), BC, NDB	53 21.0	131 56.4	22E
ZZR	Severn (Trenton), ON, NDB	44 03.2	77 37.6	12W
Z1	Three Hills, AB, NDB	51 41.8	113 13.0	17E
Z2	Rainbow Lake, AB, DME	58 29.7	119 24.8	22E
Z5	Vulcan, AB, NDB	50 23.9	113 16.9	16E
Z5	Vulcan, AB, DME	50 23.9	113 16.9	16E
Z7	Claresholm Industrial, AB, NDB	50 00.2	113 38.2	16E

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NUMBER-LETTER INDICATOR

INDICATOR	NAME	(N)LAT	(W)LONG	VAR	(Year)
1A	Williams Harbour, NL, NDB	52 33.5	55 46.9		24W
1B	Sable Island, NS, NDB	43 55.8	60 01.4		20W
1CD	Nanaimo, BC, DME	49 03.4	123 52.3		19E
1D	Charlottetown, NL, NDB	52 46.5	56 07.4		24W
1E	Black Tickle, NL, NDB	53 28.0	55 47.2		25W
1F	Bathurst, NB, NDB	47 37.8	65 44.7		20W
1L	Firebag AB, NDB	57 16.8	110 58.3		17E
1N	Pelican, AB, NDB	56 09.6	113 28.3		18E
1O	Kemess Creek, BC, NDB	57 01.1	126 50.9		23E
1R	Whitney (Kemess Creek), BC, NDB	56 57.2	126 42.9		23E
1U	Masset, BC, NDB	54 01.9	132 07.6		22E
1W	Sandy Bay, SK, NDB	55 32.6	102 16.5		9E
2A	South Indian Lake, MB, NDB	56 47.6	98 54.3		6E
2B	Springdale, NL, NDB	49 29.4	56 11.1		22W
2F	Bathurst, NB, DME	47 37.9	65 44.7		20W
2H	Lebel-sur-Quevillon, QC, NDB	49 02.2	77 01.3		15W
2J	Grand Forks, BC, NDB	49 01.1	118 25.4		18E
2K	Camrose, AB, NDB	53 01.9	112 48.8		17E
2K	Camrose, AB, DME	53 02.0	112 48.9		17E
2M	Opapimiskan Lake, ON, NDB	52 36.2	90 22.5		3W
2Q	Mont-Laurier, QC, NDB	46 36.2	75 28.2		15W
2S	High Prairie, AB, NDB	55 23.7	116 29.1		20E
2S	High Prairie, AB, DME	55 23.8	116 28.9		20E
2T	Pokemouche, NB, NDB	47 42.9	64 53.2		20W
2U	Mackenzie, BC, NDB	55 18.3	123 08.3		22E
2Z	Diavik, NT, NDB	64 30.6	110 18.6		20E
3B	Brockville, ON, NDB	44 42.1	75 42.0		14W
3D	Cumberland House, SK, NDB	53 57.4	102 17.8		10E
3F	Ile-a-la-Crosse, SK, NDB	55 29.0	107 55.8		14E
3H	Consort, AB, NDB	52 01.4	110 44.7		15E
3M	Drayton Valley, AB, NDB	53 16.0	114 57.3		18E
3N	Weyburn, SK, NDB	49 41.8	103 48.2		11E
3P	Muddy Lake, BC, NDB	58 14.2	132 11.7		24E
3R	Postville, NL, NDB	54 54.5	59 47.8		26W
3U	Gatineau, QC, NDB	45 31.1	75 33.9		14W
3X	Cluff Lake, SK, NDB	58 21.6	109 31.5		17E
3Y	Donnelly, AB, NDB	55 42.6	117 06.0		20E
3Y	Donnelly, AB, DME	55 42.7	117 06.0		20E
3Z	Russell, MB, NDB	50 45.9	101 17.8		9E
3Z	Taber, AB, NDB & DME	49 49.6	112 10.7		16E
4A	Koala (Ekati), NT, NDB & DME	64 41.9	110 36.6		21E
4B	Little Grand Rapids, MB, NDB	52 02.7	95 27.7		2E
4D	Helmet, BC, NDB	59 25.3	120 47.4		24E
4G	Cross Lake, MB, NDB	54 36.7	97 46.0		5E
4J	Knee Lake, MB, NDB	54 53.0	94 48.0		1E
4K	St. Theresa Point, MB, NDB	53 50.7	94 51.0		2E
4L	Chatham, ON, NDB	42 18.7	82 04.7		8W
4M	Red Sucker Lake, MB, NDB	54 10.1	93 33.8		0
4N	Oxford House, MB, NDB	54 55.7	95 17.0		2E
4O	Swan Hills, AB, NDB	54 40.5	115 25.5		19E
4Q	Brochet, MB, NDB	57 53.2	101 40.6		9E
4T	Shamattawa, MB, NDB	55 51.6	92 05.2		2W
4V	Lac Brochet, MB, NDB	58 37.1	101 28.2		8E
4W	Kelsey, MB, NDB	56 02.3	96 30.8		3E
5B	Summerside, PE, NDB	46 23.8	63 52.9		20W
5F	Fox Creek, AB, NDB & DME	54 22.8	116 45.6		19E

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D26 RADIO NAVIGATION AND COMMUNICATIONS

NUMBER-LETTER INDICATOR (Cont'd)

INDICATOR	NAME	(N)LAT	(W)LONG	VAR	(Year)
5J	Coronation, AB, NDB	52 04.5	111 26.9	16E	
5M	Elk Valley, BC, NDB	49 50.2	114 53.1	17E	
5O	Gods River, MB, NDB	54 50.5	94 04.1	0	
5Q	Fontanges, QC, NDB	54 33.6	71 10.3	22W	
5U	Fort Vermilion, AB, NDB	58 24.2	115 57.1	21E	
5U	Fort Vermilion, AB, DME	58 24.2	115 56.8	21E	
5V	Drumheller, AB, NDB	51 30.2	112 45.1	16E	
5V	Drumheller, AB, DME	51 30.1	112 45.0	16E	
5W	Leaf Rapids, MB, NDB	56 30.7	99 59.0	7E	
5Y	Trenton, NS, NDB	45 36.7	62 37.5	20W	
6E	Grand Manan, NB, NDB	44 42.9	66 48.1	18W	
6F	Port Hope Simpson, NL, NDB	52 31.2	56 17.7	24W	
6G	Red Deer, AB, DME	52 10.9	113 53.0	17E	
6K	Vernon, BC, NDB	50 21.0	119 15.6	18E	
6Q	Cigar Lake, SK, NDB	58 04.2	104 32.3	12E	
6X	York Landing, MB, NDB	56 05.3	96 05.8	3E	
6Z	La Loche, SK, NDB	56 28.7	109 24.0	16E	
7B	St. Thomas, ON, NDB	42 46.3	81 06.4	9W	
7C	Fogo, NL, NDB	49 39.7	54 14.7	22W	
7D	Hudson Bay, SK, NDB	52 50.9	102 11.2	9E	
7F	Collins Bay, SK, NDB	58 13.7	103 41.0	11E	
7H	Marystown (Winterland), NL, NDB	47 08.3	55 19.5	21W	
7J	Forestburg, AB, NDB	52 34.6	112 05.2	16E	
7L	La Sarre, QC, NDB	48 54.6	79 10.7	13W	
7P	Iroquois Falls, ON, NDB	48 42.5	80 44.2	12W	
7V	Jasper-Hinton, AB, NDB	53 19.3	117 45.3	19E	
8A	Carlyle, SK, NDB	49 38.7	102 16.9	9E	
8C	Fairview, AB, NDB	56 04.5	118 26.4	21E	
8C	Fairview, AB, DME	56 04.6	118 26.5	21E	
8H	St. Paul, AB, NDB	53 59.5	111 23.4	16E	
8K	Valleyview, AB, NDB	55 02.1	117 17.3	20E	
8M	Elk Point, AB, NDB	53 53.4	110 46.1	16E	
8N	Edson, AB, NDB	53 34.9	116 27.3	19E	
8N	Edson, AB, DME	53 34.8	116 27.3	19E	
9A	Hanna, AB, NDB	51 37.7	111 54.1	16E	
9G	Sundre, AB, NDB	51 46.8	114 41.0	17E	
9H	LG-3, QC, NDB	53 34.4	76 12.0	18W	
9Q	Amos, QC, NDB	48 33.5	78 14.6	14W	
9S	Powell River, BC, DME	49 50.1	124 30.0	19E	
9X	Brooks, AB, NDB & DME	50 37.9	111 55.3	16E	
9Y	Pincher Creek, AB, NDB	49 31.4	113 59.9	16E	
9Z	Westlock, AB, NDB	54 08.6	113 44.9	18E	
9Z	Westlock, AB, DME	54 08.6	113 45.0	18E	

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RADIO NAVIGATION AND COMMUNICATIONS D27

DND CANADA WIDE NDB AND TACAN INDICATORS

DND/DFSM has been assigned by Transport Canada 10 NDB indicators and 4 TACAN indicators that can be used Canada Wide by tactical/transportable terminals. Use of these indicators can only be authorized by DSFM, 613-992-8744. They are as follows:

Canada Wide NDB Indicators – UAA, UFF, UGG, UJJ, UKK, UNN, USS, UTT, UWW and UZZ.

Canada Wide TACAN Indicators – 8V to UBB
8W to UCC
9J to UDD
9L to UHH



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D28 RADIO NAVIGATION AND COMMUNICATIONS

COMMERCIAL BROADCASTING STATIONS

The following listing is provided by the Department of Industry Canada and is updated every six months; it covers all Canadian AM stations 40W and higher. Commercial broadcasting stations that are within the coverage of a VTA are not shown on the VNC.

NOTE:

- (a) Some stations operate H24 but most operate 0700-2359 local time.
- (b) Power is listed in watts. Where there is separate power for day and night the night power is in parenthesis.

CAUTION:

- (a) A station may switch to a back-up transmitter without warning and the back-up facility may be at a different location.
- (b) Commercial Broadcasting Stations are subject to outage or change without NOTAM.
- (c) Some Commercial Broadcasting Stations will not identify themselves by their designated identifier.

COMMERCIAL BROADCASTING STATIONS

BROADCAST STATION	CALL		FREQ	POWER	TOWER LOCATION	
	SIGN				(N)LAT	(W) LONG
YUKON TERRITORY						
Beaver Creek	CBDM		690	40	62 22 51	140 53 06
Carmacks	CBQF		990	40	62 06 01	136 15 57
Dawson	CBDN		560	400	64 03 22	139 24 40
Elsa	CBDD		560	40	63 55 33	135 30 51
Mayo	CBDC		1230	40	63 37 44	135 53 32
Ross River	CBQJ		990	40	61 56 29	132 26 52
Swift River	CBDX		970	40	60 00 08	131 11 42
Teslin	CBDK		940	40	60 10 01	132 43 39
Watson Lake	CBDB		990	40	60 03 51	128 42 58
Whitehorse	CBPY		810	50	60 41 32	134 58 16
	CFWH		570	5000(1000)	60 47 00	135 06 50
	CKRW		610	1000	60 41 32	134 58 16
NORTHWEST TERRITORIES						
Aklavik	CBAK		1210	40	68 13 20	135 01 31
Fort McPherson	CBQM		690	40	67 25 42	134 51 54
Fort Norman	CBQI		920	99	64 54 30	125 32 26
Fort Providence	CBQC		1230	99	61 20 40	117 38 20
Fort Simpson	CBDO		690	40	61 52 18	121 22 50
Fort Smith	CBDI		860	99	60 00 14	111 52 32
Inuvik	CHAK		860	1000	68 20 41	133 41 08
Norman Wells	CBDW		990	40	65 16 52	126 48 42
Wrigley	CBQG		1280	40	63 13 02	123 26 23
Yellowknife	CFYK		1340	2500	62 25 56	114 25 10
NUNAVUT						
Gjoa Haven	CBIA		640	40	68 37 36	95 52 20
Iqaluit	CFFB		1230	1000	63 43 56	68 32 43
BRITISH COLUMBIA						
Abbotsford	ABBOTSFORD1		850	10000	49 01 08	122 13 46
Alice Arm	CBKL		1150	40	55 27 29	129 27 21
Ashcroft	CBWA		860	40	50 43 26	121 16 13
	CINL		1340	1000	50 45 30	121 17 52
Blue River	CBKM		860	40	52 06 20	119 18 29
Bralorne	CBRZ		1350	40	50 46 36	122 49 04
Burns Lake	CFLD		760	1000	54 15 20	125 45 30
Cache Creek	CBKS		1450	40	50 48 42	121 19 40
Campbell River	CFWB		1490	875	50 01 39	125 11 17
Canal Flats	CFIW		1200	50	50 09 22	115 48 13

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RADIO NAVIGATION AND COMMUNICATIONS D29

COMMERCIAL BROADCASTING STATIONS (Cont'd)

BROADCAST STATION	CALL		POWER	TOWER LOCATION	
	SIGN	FREQ		(N)LAT	(W) LONG
Clearwater	CBKZ	860	40	51 38 38	120 02 11
	CHNL-1	1400	1000	51 39 26	120 04 58
Clinton	CBUU	1070	40	51 05 40	121 35 05
Coal Harbour	CBKO	540	40	50 36 04	127 34 24
Cooper Creek	CBXH	1540	40	50 12 25	116 58 14
Creston	CFKC	1340	250	49 05 35	116 31 54
Dawson Creek	CJDC	890	10000	55 46 30	120 13 16
Donald	CBWD	900	40	51 29 15	117 10 31
Edgewood	CBXW	860	40	49 47 05	118 08 54
Elkford	CJEV	1340	50	50 01 19	114 55 32
Field	CBRD	860	40	51 22 41	116 27 49
Fort St. James	CIFJ	1480	50	54 26 40	124 14 55
Fraser Lake	CIFL	1450	50	54 03 17	124 50 50
Gold Bridge	CBTG	860	40	50 50 22	122 51 47
Gold River	CBKJ	860	40	49 46 24	126 03 13
Golden	CKGR	1400	1000	51 18 13	116 58 30
Grand Forks	CBRJ	860	40	49 01 40	118 26 44
Granisle	CBKG	920	40	54 52 54	126 12 06
	CHLD	1480	50	54 52 56	126 12 08
Holberg	CFHG	1490	40	50 39 23	128 00 33
Hudson's Hope	CBXU	940	40	56 01 40	121 55 06
Invermere	CKIR	870	1000(250)	50 31 08	116 03 04
Kamloops	CHNL	610	25000(5000)	50 38 50	120 16 19
Kaslo	CBUG	860	40	49 54 29	116 53 59
Kelowna	CKFR	1150	10000	49 50 52	119 27 58
	CKOV	630	5000(1000)	49 50 54	119 29 04
Keremeos	CBKY	1350	40	49 12 17	119 49 07
Kimberley	CBRK	900	40	49 40 49	115 58 35
Kispixox	CBTD	990	40	55 20 43	127 41 24
Kitimat	CKTK	1230	1000	54 03 04	128 40 56
Lillooet	CBUL	860	40	50 41 16	121 56 22
Mackenzie	CBWF	920	40	55 19 52	123 05 46
	CKMK	1240	1000	55 20 48	123 09 00
Merritt	CBUP	860	40	50 06 31	120 47 18
	CJNL	1230	1000	50 06 29	120 46 10
Mica Dam	CBXA	1150	40	52 03 40	118 34 29
Nakusp	CBUM	900	40	50 14 28	117 48 04
Nelson	CKKC	880	1000(700)	49 28 23	117 17 31
New Denver	CBUI	740	40	49 59 40	117 21 59
New Hazelton	CBRH	1170	40	55 15 03	127 34 38
New Hazelton	CKBV	1490	50	55 14 58	127 34 49
New Westminster	CKNW	980	50000	49 09 39	122 43 55
One Hundred Mile House	CKBX	840	1000(500)	51 40 11	121 17 27
Osoyoos	CJOR	1240	1000	49 04 57	119 31 25
Parson	CBKR	740	40	51 04 04	116 37 53
Pemberton	CBXK	1240	40	50 19 23	122 47 55
Penticton	CKOR	800	10000(500)	49 25 25	119 34 19
Port Alberni	CJAV	1240	1000	49 16 40	124 46 56
Port Alice	CBUX	1170	40	50 25 39	127 28 43
Port Hardy	CFNI	1240	1000	50 42 34	127 26 16
Powell River	CHQB	1280	1000	49 48 09	124 36 15
Prince Rupert	CFPR	860	10000(2500)	54 17 07	130 22 34
	CHTK	560	1000(250)	54 17 54	130 23 16
Princeton	CIOR	1400	1000	49 26 50	120 30 46
Revelstoke	CBPK	1580	50	50 59 24	118 13 08
	CKCR	1340	1000	50 59 24	118 13 12
Richmond	CISL	650	10000(9000)	49 08 38	123 03 41
Salmo	CBUN	740	40	49 11 37	117 16 40
Salmon Arm	CKXR	580	10000(1000)	50 43 05	119 20 24
Sayward	CBKU	630	40	50 23 17	125 57 43

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D30 RADIO NAVIGATION AND COMMUNICATIONS

COMMERCIAL BROADCASTING STATIONS (Cont'd)

BROADCAST STATION	CALL		POWER	TOWER LOCATION	
	SIGN	FREQ		(N)LAT	(W) LONG
Shalalth	CBKN	990	40	50 43 50	122 14 30
Smithers	CFBV	870	1000(500)	54 47 47	127 11 55
Squamish	CBRU	1260	40	49 41 54	123 08 40
Stewart	CBKA	1450	40	55 56 34	129 59 37
Summerland	CHOR	1450	1000	49 37 33	119 41 10
Tahsis	CBXP	1240	40	49 55 44	126 39 20
Terrace	CFNR	990	40	54 30 19	128 35 35
	CFTK	590	1000	54 30 04	128 30 56
Ucluelet	CBXQ	540	40	48 56 44	125 33 07
Vancouver	CBU	690	50000	49 08 14	123 12 05
	CFUN	1410	50000	49 07 40	123 01 46
	CHMB	1320	50000	49 09 54	123 02 33
	CHMJ	730	50000	49 07 56	123 00 23
	CJVB	1470	50000	49 11 35	123 01 22
	CKBD	600	10000	49 09 59	123 00 59
	CKST	1040	50000	49 06 03	122 55 56
	CKWX	1130	50000	49 09 21	123 04 05
Vanderhoof	CIVH	1340	1000	54 00 59	123 59 30
Victoria	CFAX	1070	10000	48 23 49	123 18 25
	CKMO	900	10000	48 26 27	123 15 18
Wells	CBYW	540	40	53 06 25	121 32 45
Williams Lake	CBRL	860	40	52 08 30	122 09 28
	CKWL	570	1000	52 05 29	122 10 32
ALBERTA					
Athabasca	CKBA	850	1000	54 41 31	113 13 37
Banff	CBRB	860	40	51 11 10	115 34 04
Blairmore	CBXL	860	40	49 31 07	114 29 18
Brooks	CIBQ	1340	1000	50 29 35	111 53 08
Calgary	CBR	1010	50000	50 56 17	113 57 42
	CFAC	960	50000	50 59 21	113 50 24
	CFFR	660	50000	50 45 27	114 03 46
	CHQR	770	50000	50 49 16	114 03 08
	CKMX	1060	50000	50 54 02	113 52 30
Camrose	CFCW	790	50000	52 57 37	112 57 33
Coleman	CBXC	1450	40	49 31 26	114 30 05
Drumheller	CKDQ	910	50000	51 02 27	113 17 34
Edmonton	CBX	740	50000	53 19 10	113 26 47
	CFRN	1260	50000	53 27 07	113 40 56
	CHED	630	50000	53 23 49	113 24 02
	CHFA	680	10000	53 24 23	113 36 45
Edmonton	CHQT	880	50000	53 22 07	113 19 04
	CJCA	930	50000	53 23 00	113 28 36
	CKUA	580	10000	53 20 34	113 27 31
Edson	CBXD	1540	40	53 34 34	116 26 07
	CFXE	970	10000	53 32 09	116 36 06
Fort Chipewyan	CBKE	1450	40	58 43 15	111 08 43
Fort Vermilion	CBKC	1460	40	58 23 01	116 02 30
Grande Cache	CBWI	1450	40	53 54 00	119 06 19
	CFXG	1230	50	53 53 21	119 07 25
High Level	CKBD	1560	40	58 30 25	117 08 23
High Prairie	CKVH	1020	1000(400)	55 27 11	116 31 05
High River	CHRB	1140	50000(46000)	50 55 25	113 50 02
Jasper	CBXJ	860	40	52 53 12	118 05 09
Lloydminster	CKSA	1080	50000(10000)	53 13 17	110 00 26
Medicine Hat	CHAT	1270	10000	49 58 35	110 36 48
Peace River	CKYL	610	10000	56 10 40	117 11 01
Rainbow Lake	CBXX	1240	40	58 29 45	119 23 15
St. Paul	CHLW	1310	10000	53 59 38	111 13 43
Slave Lake	CKWA	1210	1000	55 15 27	114 43 18

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COMMERCIAL BROADCASTING STATIONS (Cont'd)

BROADCAST STATION	CALL	FREQ	POWER	TOWER LOCATION	
	SIGN			(N)LAT	(W) LONG
Stettler	CKSQ	1400	1000	52 18 48	112 37 22
Wainwright	CKKY	830	10000(3500)	52 48 59	110 45 36
Westlock	CFOK	1370	10000	54 05 16	113 52 43
Wetaskiwin	CKJR	1440	10000	52 57 30	113 27 04
SASKATCHEWAN					
Estevan	CJSL	1280	10000	49 03 26	102 55 22
Gravelbourg	CBKF-1	690	5000	49 52 16	106 28 21
Jans Bay	CJBW	1330	50	55 08 54	108 07 36
Kindersley	CFYM	1210	1000(250)	51 27 05	109 08 44
Meadow Lake	CJNS	1240	1000	54 05 30	108 27 11
Melfort	CKJH	750	25000	52 36 45	104 30 17
Moose Jaw	CHAB	800	10000	50 22 38	105 23 37
North Battleford	CJNB	1050	10000	52 50 30	108 18 22
Prince Albert	CKBI	900	10000	53 06 13	105 45 32
Regina	CJME	980	10000(5000)	50 21 13	104 37 18
	CKRM	620	10000	50 19 36	104 37 13
Rosetown	CJYM	1330	10000	51 27 31	107 59 39
Saskatoon	CBKF-2	860	10000	52 15 00	106 39 35
	CJWW	600	25000(8000)	52 04 25	106 48 38
	CKOM	650	10000	52 04 45	106 30 40
Shaunavon	CJSN	1490	1000	49 38 29	108 29 15
Swift Current	CKSW	570	10000	50 09 39	107 49 00
Watrous	CBK	540	50000	51 40 48	105 26 51
Weyburn	CFSL	1190	10000(5000)	49 27 57	103 50 35
Yorkton	CJGX	940	50000(10000)	51 12 23	102 20 10
MANITOBA					
Altona	CFAM	950	10000	49 01 57	97 56 58
Boissevain	CJRB	1220	10000	49 15 26	100 03 26
Brandon	CKLQ	880	10000	49 37 11	99 48 21
Churchill	CHFC	1230	250	58 45 18	94 05 39
Cross Lake	CFNC	1490	50	54 37 28	97 46 56
Dauphin	CKDM	730	10000(5000)	51 09 08	100 13 48
Flin Flon	CFAR	590	10000(1000)	54 48 04	101 51 11
Morden	CKMW	1570	10000	49 07 16	98 04 02
Portage La Prairie	CFRY	920	25000(15000)	49 58 10	98 22 31
Pukatawagan	CBDS	690	40	55 44 45	101 19 26
St. Boniface	CKSB	1050	10000	49 45 06	97 10 55
St. Lazare	CKSB-2	860	40	50 26 48	101 17 35
Ste. Rose du Lac	CKSB-1	860	40	51 03 48	99 31 21
Steinbach	CHSM	1250	10000	49 30 15	96 58 55
The Pas	CJAR	1240	1000	53 48 46	101 16 34
Thompson	CHTM	610	1000	55 42 08	97 52 55
Winnipeg	CBW	990	50000(46000)	49 50 12	97 30 44
	CFRW	1290	10000	49 47 58	97 16 30
	CJML	580	99	49 52 20	97 13 45
	CJOB	680	50000	49 39 14	97 11 31
	CKJS	810	10000	49 44 07	97 11 37
ONTARIO					
Armstrong	CBOL	1450	40	50 18 08	89 02 12
Atikokan	CKDR-6	1240	50	48 45 33	91 36 16
Bancroft	CBLV	600	40	45 03 00	77 51 29
Beardmore	CBLE	1240	40	49 35 49	87 57 34
Belleville	CJBQ	800	10000	43 58 08	77 25 09
Blind River	CBON-6	1010	40	46 11 23	82 57 54
Brampton	CIAO	530	1000(250)	43 35 25	79 53 20
Brantford	CKPC	1380	10000	43 03 05	80 18 49
Chalk River	CKML	530	30	46 02 40	77 23 36

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D32 RADIO NAVIGATION AND COMMUNICATIONS

COMMERCIAL BROADCASTING STATIONS (Cont'd)

BROADCAST STATION	CALL		FREQ	POWER	TOWER LOCATION	
	SIGN				(N)LAT	(W) LONG
Chatham	CFCO		630	10000(6000)	42 20 03	82 16 53
Cobourg	CHUC		1450	8000(1000)	43 57 20	78 13 08
Cornwall	CJUL		1220	1000	45 04 54	74 46 07
Deep River	CBLI		1110	40	46 05 20	77 29 08
Dryden	CKDR		800	1000(700)	49 48 32	92 49 35
Ear Falls	CBOI		690	40	50 38 34	93 13 16
	CKDR-4		1450	40	50 38 10	93 13 52
Foleyet	CBLF		1450	40	48 14 16	82 26 06
Guelph	CJOY		1460	10000	43 29 09	80 14 42
Hamilton	CHAM		820	50000(10000)	43 06 58	79 46 37
	CHML		900	50000	43 20 00	80 07 14
	CKOC		1150	50000	43 03 04	79 48 41
Hornepayne	CBLH		1010	40	49 13 35	84 47 00
Hudson	CBQW		1340	40	50 05 37	92 09 41
	CKDR-3		1450	40	50 05 21	92 09 55
Ignace	CBES		690	40	49 24 49	91 39 44
	CKDR-1		1340	50	49 24 08	91 39 55
Kingston	CFFX		960	10000(5000)	44 10 51	76 27 48
	CKLC		1380	10000	44 12 36	76 25 04
Kitchener	CKGL		570	10000	43 17 25	80 21 09
Kitchener	CKKW		1090	10000	43 17 20	80 24 15
London	CFPL		980	10000(5000)	42 53 28	81 12 02
	CJBK		1290	10000	42 52 08	81 13 58
	CKSL		1410	10000	42 52 59	81 13 25
Marathon	CBLM		1090	40	48 43 11	86 23 00
Markham	CFAD		1610	99	43 53 59	79 22 52
Matachewan	CBON-10		1110	40	47 56 33	80 38 44
Mattawa	CBLO		1240	40	46 18 49	78 43 17
	CBON-12		1090	40	46 18 49	78 43 17
Moosonee	CBEY		1340	40	51 16 25	80 38 19
Moosonee	CHMO		1450	50	51 16 39	80 38 39
Nakina	CBLN		1240	40	50 10 31	86 42 37
Niagara Falls	CJRN		710	5000(2500)	42 53 52	78 57 26
North Bay	CKAT		600	10000(5000)	46 10 45	79 27 59
Oakville	CJMR		1320	20000	43 27 29	79 45 17
	CJYE		1250	10000(5000)	43 27 29	79 45 17
	CKDO		1350	10000(5000)	43 52 19	78 45 53
Oshawa	CFGO		1200	50000(50000)	45 13 00	75 46 12
Ottawa	CFRA		580	50000(10000)	45 12 05	75 43 26
	CHYW		1630	99	45 19 15	75 39 58
	CIWW		1310	50000	45 15 36	75 47 02
Owen Sound	CFOS		560	7500(1000)	44 32 40	80 54 08
Peterborough	CKPT		1420	10000(5000)	44 16 13	78 17 22
	CKRU		980	10000(7500)	44 13 33	78 16 49
Red Lake	CKDR-5		1340	250	51 00 47	93 49 22
Richmond Hill	CFMJ		640	50000	43 10 45	79 25 59
Rolphoton	CBOF-4		1400	40	46 10 18	77 42 07
St. Catharines	CHSC		1220	10000	43 03 23	79 13 21
	CKTB		610	10000(5000)	43 02 12	79 09 59
Sarnia	CHOK		1070	10000	42 53 30	82 19 20
Sault Ste. Marie	CIRS		530	50	46 31 00	84 21 00
Schreiber	CBLB		1340	40	48 48 30	87 16 00
Sioux Lookout	CBLS		1240	40	50 05 44	91 54 30
	CKDR-2		1400	50	50 05 44	91 54 30
Stratford	CJCS		1240	1000	43 20 35	81 00 40
Sudbury	CIGM		790	50000	46 25 24	80 56 13
Temagami	CBEU		1340	40	47 03 49	79 47 19
Terrace Bay	CBEH		1010	40	48 47 18	87 05 54
Thunder Bay	CKPR		580	5000(1000)	48 26 08	89 20 41
Tillsonburg	CKGT		1510	10000(0)	42 44 08	80 39 18

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COMMERCIAL BROADCASTING STATIONS (Cont'd)

BROADCAST STATION	CALL	FREQ	POWER	TOWER LOCATION		
	SIGN			(N)LAT	(W) LONG	
Toronto	CFRB	1010	50000	43 30 17	79 37 49	
	CFTR	680	50000	43 12 50	79 36 29	
	CHEV	1610	99	43 45 00	79 30 00	
	CHHA	1610	1000	43 42 40	79 27 11	
	CHIN	1540	50000(30000)	43 36 55	79 22 49	
	CHKT	1430	50000	43 37 03	79 22 46	
	CHUM	1050	50000	43 29 14	79 37 14	
	CHWO	740	50000	43 34 30	79 49 03	
	CJBC	860	50000	43 34 30	79 49 02	
	CJCL	590	50000	43 09 10	79 32 03	
	White River	CBLW	1010	40	48 35 20	85 17 08
	Windsor	CBE	1550	10000	42 12 56	82 55 15
		CBEF	540	2500(5000)	42 08 50	83 05 33
	Windsor	CKLW	800	50000	42 03 25	83 00 10
Windsor	CKWW	580	500	42 10 22	83 02 53	
Wingham	CKNX	920	10000(1000)	43 50 35	81 20 53	
QUÉBEC						
Aganish	CBSI-14	1350	40	50 13 18	62 04 39	
Alma	CFGT	1270	10000(5000)	48 31 46	71 36 29	
Chapais	CBJ-2	1140	40	49 47 04	74 51 44	
	CBMD	1400	40	49 47 04	74 51 44	
Chibougamau	CFED	1340	250	49 46 40	74 50 11	
	CJMD	1240	1000	49 54 35	74 22 07	
Clova	CBF-16	990	40	48 06 33	75 21 33	
Gaspé	CHGM	1150	5000	48 49 10	64 25 14	
Gatineau	CJRC	1150	50000(5000)	45 16 14	75 40 38	
Jonquiére	CKRS	590	25000(5000)	48 22 15	71 10 18	
Lac-Édouard	CBF-17	710	40	47 39 51	72 16 34	
Lac-Mégantic	CBMO	1240	40	45 34 39	70 53 27	
L'Anse St-Jean	CBJ-4	990	40	48 12 51	70 13 53	
La Romaine	CBSI-8	1550	40	50 12 58	60 40 29	
La Tuque	CBVE-1	830	40	47 25 13	72 46 58	
Lebel-sur-Quévillon	CFLM	1240	1000	47 27 42	72 46 30	
	CBF-3	650	40	49 02 58	76 58 48	
Malartic	CBMK	1230	40	49 02 58	76 58 48	
	CBMN	1230	40	48 08 20	78 07 49	
Maniwaki	CBOF-1	990	40	46 22 25	75 57 23	
	CBOM	710	40	46 22 25	75 57 23	
Matagami	CBF-4	1140	40	49 45 30	77 37 39	
Matane	CBGA	1250	10000(5000)	48 51 03	67 29 59	
Montréal	CFMB	1280	50000	45 19 31	73 32 54	
	CINF	690	50000	45 23 34	73 41 54	
	CINW	940	50000	45 23 33	73 35 25	
	CJAD	800	50000(10000)	45 14 50	73 31 24	
	CKAC	730	50000	45 30 50	73 58 25	
	CKGM	990	50000	45 17 43	73 43 19	
	CBGA-6	1270	40	48 57 20	65 29 48	
Murdochville	CBMJ	750	40	48 57 30	65 30 03	
Natashquan	CBSI-5	1100	40	50 10 47	61 48 42	
New-Carlisle	CHNC	610	10000(5000)	48 01 19	65 14 50	
Parent	CBF-18	710	40	47 55 28	74 36 47	
Petit-Saguenay	CBJ-5	1140	40	48 12 58	70 04 48	
Port-Menier	CBSI-23	1130	40	49 49 15	64 20 52	
Québec	CHRC	800	50000	46 38 34	71 14 45	
St-Constant	CJMS	1040	5000(1100)	45 22 05	73 37 23	
Ste-Anne-des-Monts	CBGA-7	1340	1000	49 07 48	66 27 44	
Senneterre	CBF-1	710	40	48 22 42	77 13 28	
Shawinigan	CBMM	540	40	48 22 42	77 13 28	
	CKSM	1220	10000(2500)	46 35 27	72 45 45	

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D34 RADIO NAVIGATION AND COMMUNICATIONS

COMMERCIAL BROADCASTING STATIONS (Cont'd)

BROADCAST STATION	CALL		FREQ	POWER	TOWER LOCATION	
	SIGN				(N)LAT	(W) LONG
Sherbrooke	CHLT		630	10000(5000)	45 18 16	71 51 57
	CKTS		900	10000	45 26 28	72 00 33
Trois-Rivières	CHLN		550	10000(5000)	46 14 21	72 35 24
Val-d'Or	CBML		570	40	48 06 35	77 47 09
Weymontachie	CBFA-3		750	40	47 53 58	73 46 38
NEW BRUNSWICK						
Campbellton	CKNB		950	10000(1000)	48 00 54	66 35 07
Caraquet	CJVA		810	10000	47 46 05	65 03 11
Fredericton	CKHJ		1260	10000	45 59 52	66 41 37
Grande-Anse	CBGA-1		540	10000	47 48 50	65 08 48
Kedgwick	CBAF-20		990	40	47 38 45	67 21 03
McAdam	CBAX		600	40	45 34 50	67 20 33
Moncton	CBA		1070	50000	46 02 02	64 41 08
Plaster Rock	CJGJ-2		990	40	46 53 23	67 24 22
Saint John	CFBC		930	50000	45 13 55	66 06 13
St. Quentin	CBAF-21		1230	40	47 30 45	67 23 43
St. Stephen	CBAO		990	40	45 11 33	67 15 40
Sussex	CJCW		590	1000(250)	45 41 06	65 31 27
NOVA SCOTIA						
Amherst	CKDH		900	1000	45 50 42	64 12 39
Dartmouth	CFDR		780	50000(15000)	44 38 09	63 41 44
Digby	CKDY		1420	1000	44 38 03	65 46 41
Halifax	CHNS		960	10000	44 40 49	63 39 33
	CJCH		920	25000	44 36 04	63 41 11
Middleton	CKAD		1350	1000	44 59 15	65 01 13
New Glasgow	CKEC		1320	25000	45 37 37	62 42 27
Sydney	CBI		1140	10000	46 08 12	60 16 12
	CHER		950	10000	46 04 44	60 11 57
	CJCB		1270	10000	46 10 50	60 11 27
Windsor	CFAB		1450	1000	44 59 43	64 06 50
PRINCE EDWARD ISLAND						
Charlottetown	CFCY		630	10000	46 14 51	63 11 40
	CHTN		720	1000(7500)	46 11 22	63 09 54
NEWFOUNDLAND & LABRADOR						
Baie Verte	CKIM		1240	1000	49 57 25	56 10 42
Bonavista Bay	CBGY		750	10000	48 40 27	53 46 20
Cartwright	CBNK		570	40	53 42 31	57 00 42
Clarenville	CKVO		710	10000	48 08 36	53 57 41
Corner Brook	CBY		990	10000	48 55 58	57 54 23
	CFCB		570	1000	48 56 13	57 59 29
Gander	CBG		1400	4000	48 57 57	54 39 19
	CKGA		650	5000	48 57 37	54 39 38
Glovertown	CBNG		1090	40	48 40 22	54 01 55
Goose Bay	CFLN		1230	1000	53 18 37	60 17 35
Grand Falls	CBT		540	10000	48 57 03	55 37 31
	CKCM		620	10000	48 56 39	55 38 32
Happy Valley	CKHV		1340	1000	53 18 59	60 17 14
Marystown	CHCM		740	10000	47 08 41	55 16 19
Nain	CBNZ		740	40	56 32 30	61 41 57
Nain (Labrador)	CKOK		610	40	56 32 30	61 41 57
Port Aux Basques	CFGN		1230	250	47 35 08	59 07 19
Port au Choix	CFNW		790	1000	50 42 00	57 23 57
St. Anthony	CBNA		600	10000	51 22 04	55 36 56

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RADIO NAVIGATION AND COMMUNICATIONS D35

COMMERCIAL BROADCASTING STATIONS (Cont'd)

BROADCAST STATION	CALL	FREQ	POWER	TOWER LOCATION	
	SIGN			(N)LAT	(W) LONG
St. John's	CBN	640	10000	47 30 10	52 48 03
	CJYQ	930	50000(25000)	47 34 45	52 47 15
	CJYQ	930	50000(5000)	47 34 45	52 47 15
	VOAR	1210	10000	47 32 05	52 49 16
	VOCM	590	20000	47 32 38	52 46 40
	VOWR	800	10000(2500)	47 34 19	52 45 10
Spaniard's Bay	CHVO	560	5000	47 39 36	53 15 11
Stephenville	CFSX	870	500	48 31 34	58 29 25
	CHUG	740	40	48 33 10	58 33 42
Wabush	CFLW	1340	250	52 54 19	66 52 42

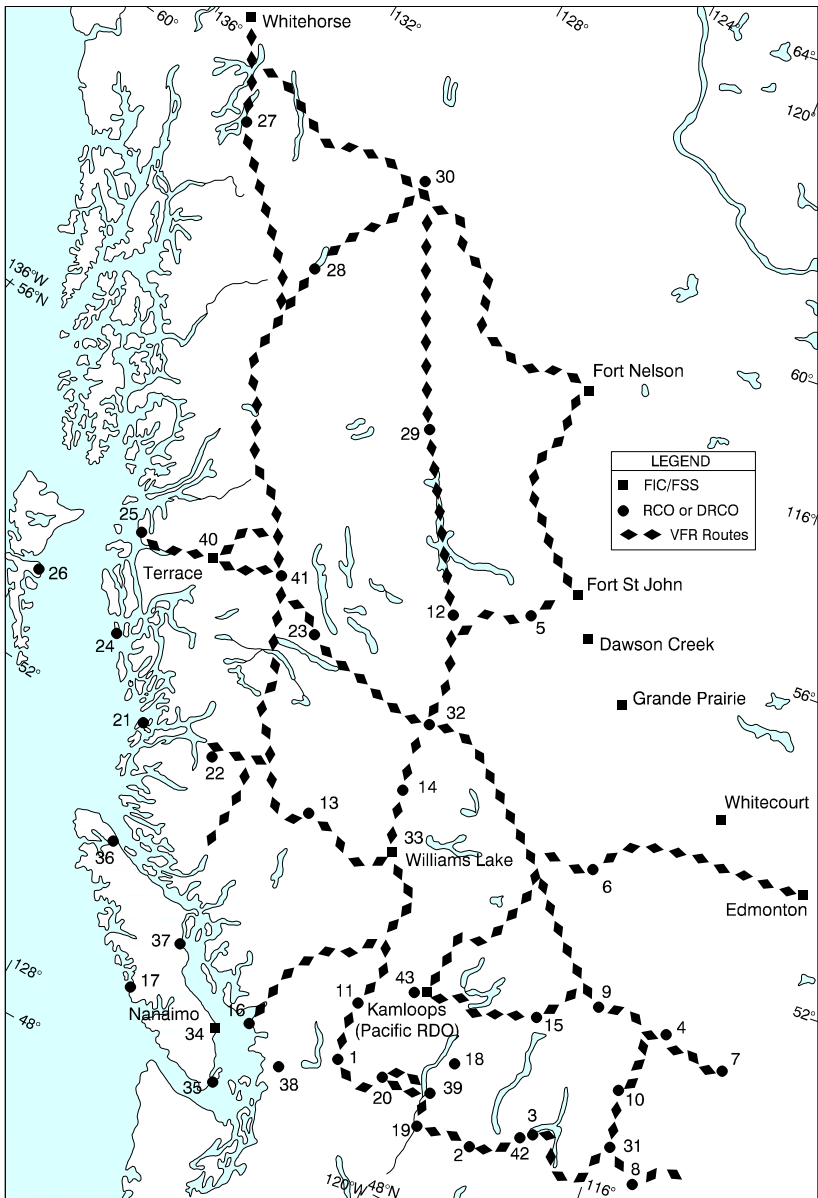
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D36 RADIO NAVIGATION AND COMMUNICATIONS

MOUNTAIN VALLEY COMMUNICATIONS SERVICE BRITISH COLUMBIA AND ALBERTA REMOTE COMMUNICATION OUTLETS

Many valleys in British Columbia and in Western Alberta where VFR pilots may fly below the IFR Minimum Enroute Altitudes are served by Remote Communications Outlets (RCO) from Flight Service Stations or Flight Information Centres. RCO locations, frequencies and their respective Flight Service Stations or Flight Information Centres are indicated on the Aeronautical Charts. The map below depicts the locations of the RCO's in relation to some of the more commonly used VFR routes.



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RADIO NAVIGATION AND COMMUNICATIONS D37

MASTER FIC/FSS	RCO	MAP		LOCATION			
		NO	FREQ	(N) LAT	(W)LONG	REMARKS	
Cranbrook Edmonton	Abbotsford	38	119.4	49 02	122 22	—	
	Banff	4	123.55	51 09	115 35	—	
	Chetwynd	5	126.7	55 40	121 34	—	
	Jasper-Hinton	6	123.55	53 25	117 47	—	
	Springbank	7	126.7	51 06	114 22	—	
Kamloops (Pacific RDO)	Abbotsford	38	122.5	49 02	122 22	—	
	Hope	1	126.7	49 23	121 25	Thacker Mtn	
	Bella Bella (Campbell Island)	21	126.7	52 11	128 09	—	
	Bella Coola	22	126.7	52 23	126 35	—	
	Burns Lake	23	126.7	54 15	125 43	—	
	Campbell River	37	126.7	49 57	125 16	—	
	Castlegar	42	126.7	49 18	117 38	—	
	Cranbrook	31	126.7	49 37	115 47	—	
	Ethelda Bay	24	126.7	53 05	129 40	Trutch Island	
	Fernie	8	126.7	49 27	114 59	Morrissey Mtn	
	Golden (DRCO)	9	126.7	51 18	116 59	—	
	Grand Forks	2	126.7	49 05	118 37	Phoenix Mtn	
	Invermere (DRCO)	10	126.7	50 29	115 57	—	
	Kamloops	43	123.375	50 42	120 27	—	
			126.7				
	Kelowna	18	126.7	49 56	119 22	—	
	Lytton	11	126.7	50 15	121 35	—	
	Mackenzie	12	126.7	55 02	122 54	—	
	Nanaimo	34	126.7	49 03	123 52	—	
	Nelson	3	126.7	49 29	117 17	On airport	
	Oliver	19	126.7	49 03	119 31	Osoyoos	
	Penticton	39	122.5	49 28	119 36	—	
			126.7				
	Port Hardy	36	126.7	50 41	127 22	—	
	Prince George	32	126.7	53 53	122 41	—	
	Prince Rupert	25	126.7	54 17	130 27	Seal Cove	
	Princeton	20	126.7(V)	49 28	120 30	—	
	Puntzi Mtn (DRCO)	13	126.7	52 10	124 12	—	
	Revelstoke	15	126.7	50 58	118 11	—	
	Smithers	41	126.7	54 49	127 11	—	
Terrace	40	126.7	54 28	128 35	—		
Tofino	17	126.7	49 05	125 51	—		
Vancouver Intl	16	123.15	49 12	123 11	—		
Victoria Harbour	35	126.7	48 25	123 23	—		
Williams Lake	33	126.7	52 11	122 03	—		
Nanaimo	Tofino	17	122.3	49 05	125 51	—	
Terrace	Sandspit	26	122.3	53 15	131 48	—	
			296.2				
Whitehorse	Atlin	27	126.7	59 35	133 43	—	
	Dease Lake	28	126.7	58 26	130 02	—	
	Fort Ware	29	126.7	57 25	125 38	—	
	Watson Lake	30	126.7	60 05	128 51	—	
Williams Lake	Quesnel	14	122.2	52 58	122 29	Red Bluff	

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D38 RADIO NAVIGATION AND COMMUNICATIONS

NORTH ATLANTIC METEOROLOGICAL INFORMATION (HF) (VOLMET)

GANDER

3485	H+20-25	TAF	Montreal/Pierre Elliott Trudeau, Toronto, Ottawa.
6604		METAR	Gander, Montreal/Pierre Elliott Trudeau, Toronto, Ottawa, Goose.
10051			
13270	H+25-30	TAF	SIGMET (1), Winnipeg, Edmonton, Calgary, Churchill.
		METAR	Kuujuaq, Winnipeg, Churchill.
	H+50-55	TAF	Gander, St. John's, Halifax.
		METAR	Gander, St. John's, Halifax, Stephenville Montreal(Mirabel).
	H+55-60	TAF	SIGMET (1), Goose, Iqaluit, Sondrestrom.
		METAR	Goose, Iqaluit, Sondrestrom, Kuujuaq.

NOTE (1) Includes SIGMET or notification of SIGMET affecting flights operating above FL 100 in the Gander Oceanic and the Gander Domestic, Moncton, Montreal and Toronto FIR.

NEW YORK

3485	H+00	FORECASTS	Detroit, Chicago, Cleveland.
6604		ACTUALS	Detroit, Chicago, Cleveland, Niagara Falls, Milwaukee, Indianapolis.
10051			
13270			
	H+05	FORECASTS	Bangor, Charlotte, Pittsburgh.
		ACTUALS	Bangor, Pittsburgh, Windsor Locks, St. Louis, Charlotte, Minneapolis.
	H+10	FORECASTS	New York, Newark, Boston.
		ACTUALS	New York, Newark, Boston, Baltimore, Philadelphia, Washington.
	H+15	FORECASTS	Bermuda NAS, Miami, Atlanta.
		ACTUALS	Bermuda NAS, Miami, Nassau, Freeport, Tampa, West Palm Beach, Atlanta.
	H+30	FORECASTS	Niagara Falls, Milwaukee, Indianapolis.
		ACTUALS	Detroit, Chicago, Cleveland, Niagara Falls, Milwaukee, Indianapolis.
	H+35	FORECASTS	Windsor Locks, St. Louis.
		ACTUALS	Bangor, Pittsburgh, Windsor Locks, St. Louis, Charlotte, Minneapolis.
	H+40	FORECASTS	Baltimore, Philadelphia, Washington.
		ACTUALS	New York, Newark, Boston, Baltimore, Philadelphia, Washington.
	H+45	FORECASTS	Nassau, Freeport.
		ACTUALS	Bermuda NAS, Miami, Nassau, Freeport, Tampa, West Palm Beach, Atlanta.

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RADIO NAVIGATION AND COMMUNICATIONS D39

NORTH ATLANTIC METEOROLOGICAL INFORMATION (HF) (VOLMET) (Cont'd)

SHANNON

3413 (Night) 8957 5505 13264	H+00	FORECASTS	Brussels Ntl, Hamburg.
		ACTUALS	Brussels Ntl, Hamburg, Frankfurt (Main), Cologne/Bonn, Dusseldorf, Munich.
	H+05	FORECASTS	Shannon, Prestwick, London/Heathrow.
		ACTUALS	Shannon, Amsterdam/Schiphol, Manchester, London/Gatwick.
	H+10	ACTUALS	Copenhagen/Kastrup, Stockholm/Arlanda, Goteborg/Landvetter, Bergen/Flesland, Oslo/Gardemoen, Helsinki/Vantaa, Dublin, Barcelona.
	H+15	FORECASTS	Madrid/Barajas, Lisbon, Paris/Orly.
		ACTUALS	Madrid/Barajas, Lisbon, Santa Maria, Paris/Orly, Paris/Charles de Gaulle, Lyon/Satolas.
	H+20	FORECASTS	Rome/Fiumicino, Milan/Malpensa.
		ACTUALS	Rome/Fiumicino, Milan/Malpensa, Zurich, Geneva/Cointrin, Turin/Caselle, Keflavik.
	H+30	FORECASTS	Frankfurt (Main), Cologne/Bonn.
		ACTUALS	Brussels Ntl, Hamburg, Frankfurt (Main), Cologne/Bonn, Dusseldorf, Munich.
	H+35	FORECASTS	Amsterdam/Schiphol, Manchester, London/Gatwick.
		ACTUALS	Shannon, Prestwick, London/Heathrow, Amsterdam/Schiphol, Manchester, London/Gatwick.
	H+40	ACTUALS	Copenhagen/Kastrup, Stockholm/Arlanda, Goteborg/Landvetter, Bergen/Flesland, Oslo/Gardemoen, Helsinki/Vantaa, Dublin, Barcelona.
	H+45	FORECASTS	Santa Maria, Athens, Paris/Charles de Gaulle.
		ACTUALS	Madrid/Barajas, Lisbon, Santa Maria, Paris/Orly, Paris/Charles de Gaulle, Lyon/Satolas.
	H+50	FORECASTS	Zurich, Geneva/Cointrin.
		ACTUALS	Rome/Fiumicino, Milan/Malpensa, Zurich, Geneva/Cointrin, Turin/Caselle, Keflavik.

NORTH ATLANTIC METEOROLOGICAL INFORMATION (VHF) (VOLMET)

KEFLAVIK

FORECASTER

120.3 344.6 Cont

Direct communication between pilot and forecaster.

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D40 RADIO NAVIGATION AND COMMUNICATIONS

AERONAUTICAL RADIO INCORPORATED (ARINC)

Aeronautical Radio Incorporated provides communications for air traffic services of the United States using common air/ground frequencies. These frequencies are listed below by the areas in which they are used. These frequencies are for use during emergency situations and when communications with control centres or military air/ground stations on military air/ground frequencies cannot be maintained. Users are advised that a charge may be levied for services provided other than air traffic services.

NORTH ATLANTIC

New York (ARINC) -	129.9,	(NAT-A)	21964	17946	13306	8906	5598	3016
		(NAT-E)	17952	13354	11309	8825	6628	2962

CARIBBEAN

New York (ARINC) -	130.7,	(CAR-A)	13297	11396	8846	6577	5550	2887
		(CAR-B)	17907	11330	8918	6586	5520	3455

CENTRAL EAST PACIFIC

San Francisco (ARINC) - 131.95,
(CEP-1/2) 21964 13354 13288 11282 10057 8843 6673 5574 5547 3452 3413 2869

POLAR ROUTES

A/G: For aircraft using the Polar Routes, ARINC has a remote LDOCF voice site at Barrow, Alaska, controlled from ARINC SFO Communications Centre. Although primarily for company type communications, ATC communications can be passed to and from Anchorage Centre under unusual or emergency situations. Site is available for Phone Patches and Radio Operator delivered message traffic. Barrow LDOCF frequencies are: 3494 6640 11342 13348 17925 21964.

SATCOM VOICE AVAILABLE AS ALTERNATIVE COMMUNICATIONS MEDIUM

Aircraft desiring to contact an ARINC Communications Centre should use the following numbers to call the appropriate ARINC Centre:

Oceanic Area	Centre	IMARSAT Number	Public Phone Number
Pacific	SFO	436625	925-371-3920
Atlantic	NYC	436623	631-244-2492

ARINC will also utilize SATCOM Voice as a normal operational backup to HF to initiate communications from ground-to-air on the rare occasion when HF communications cannot be established in a timely manner. SATCOM Voice may be used for either ATC or AOC (Aeronautical Operation Control) Communications. This capability will be on a "search, find and contact" basis initially, which may require some delay in contacting flights. Aircraft operators with aircraft currently cockpit SATCOM Voice equipped should contact ARINC at 1-410-266-4430 to provide, update or verify aircraft AES ID codes which are required to initiate ground-to-air calls.

NOTE: Only SSB avbl on HF freqs