VFR AERONAUTICAL CHART SYMBOLS

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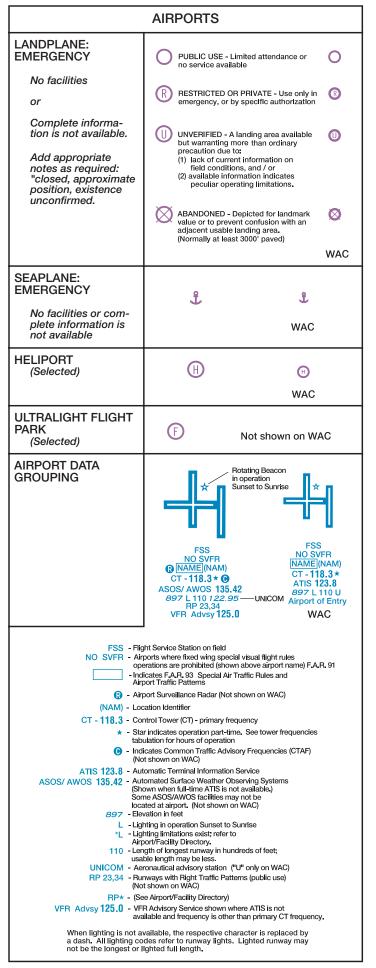
GENERAL INFORMATION

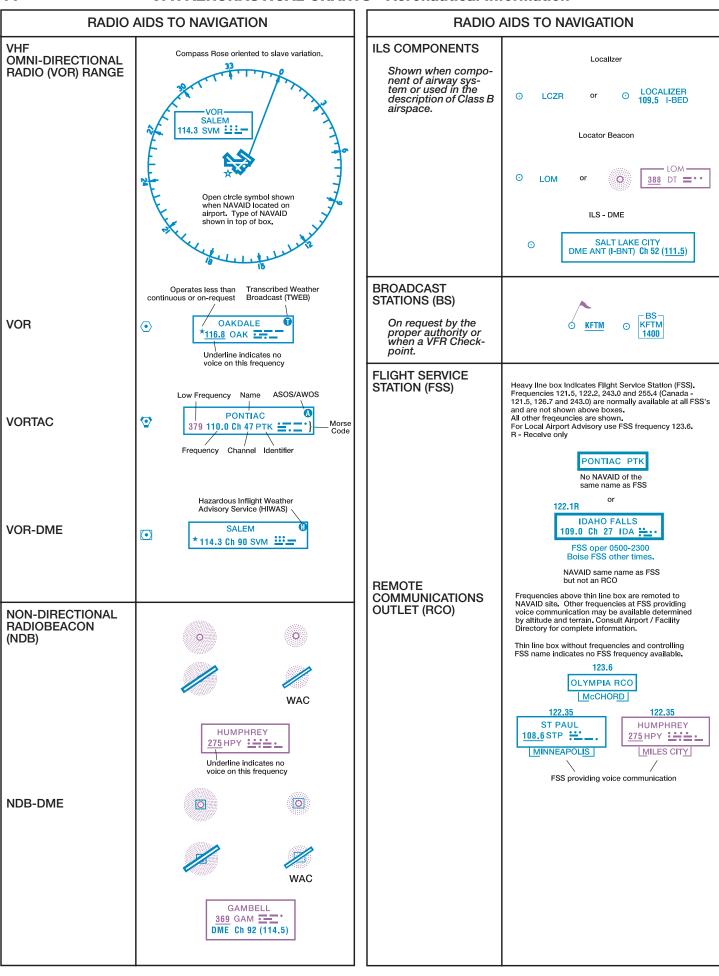
Symbols shown are for World Aeronautical Charts (WAC), Sectional aeronautical charts and Terminal Area Charts (TAC). When a symbol is different on any VFR chart series, it will be annotated thus:

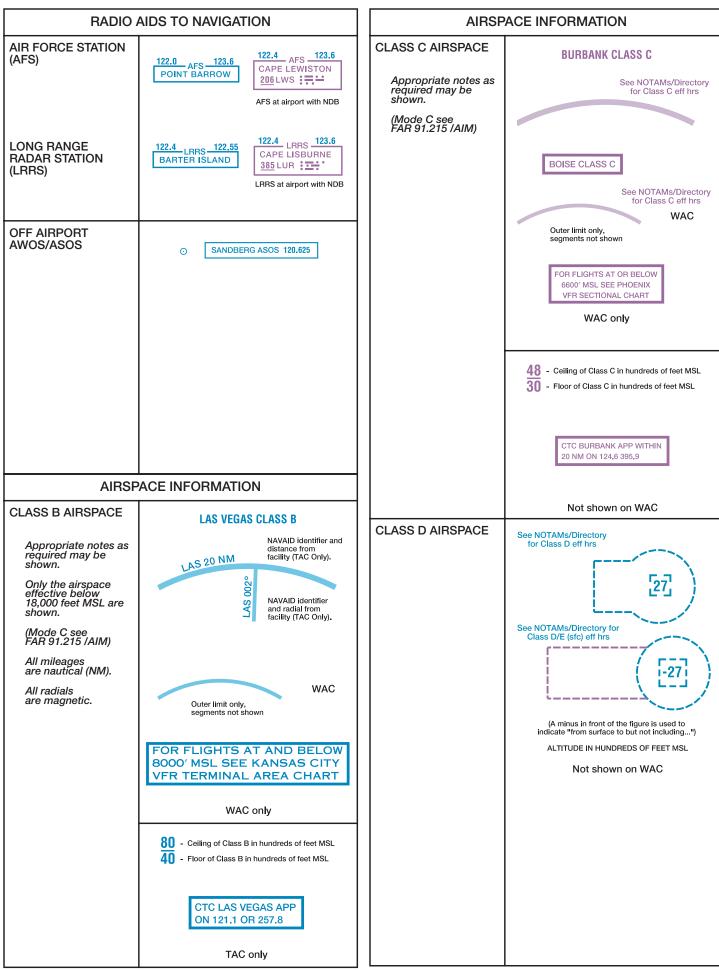
WAC or Not shown on WAC.

	VFR AERONAUTICAL CHART			
	AIRPORTS			
LANDPLANE: CIVIL				
Airports having con- trol towers (CT) are shown in blue, all oth-	\Q	\$		
ers are shown in magenta.	\Q	\Q		
All recognizable run- ways, including some which may be closed, are shown for visual identification pur- poses.	*	~		
Refueling and repair facilities for normal traffic.	*	*		
Runway patterns will be depicted at air- ports with at least one hard surface runway 1500' or greater in length.		Ø [*]		
155	∭ *	© *		
	•	WAC		
SEAPLANE: CIVIL	③	(
	((
		WAC		
LANDPLANE:	©	\rightarrow		
CIVIL-MILITARY	•	•		
		WAC		
LANDPLANE:	©	©		
MILITARY		©		
Refueling and repair facilities not indi- cated.	©	>		

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	*♥	wac		

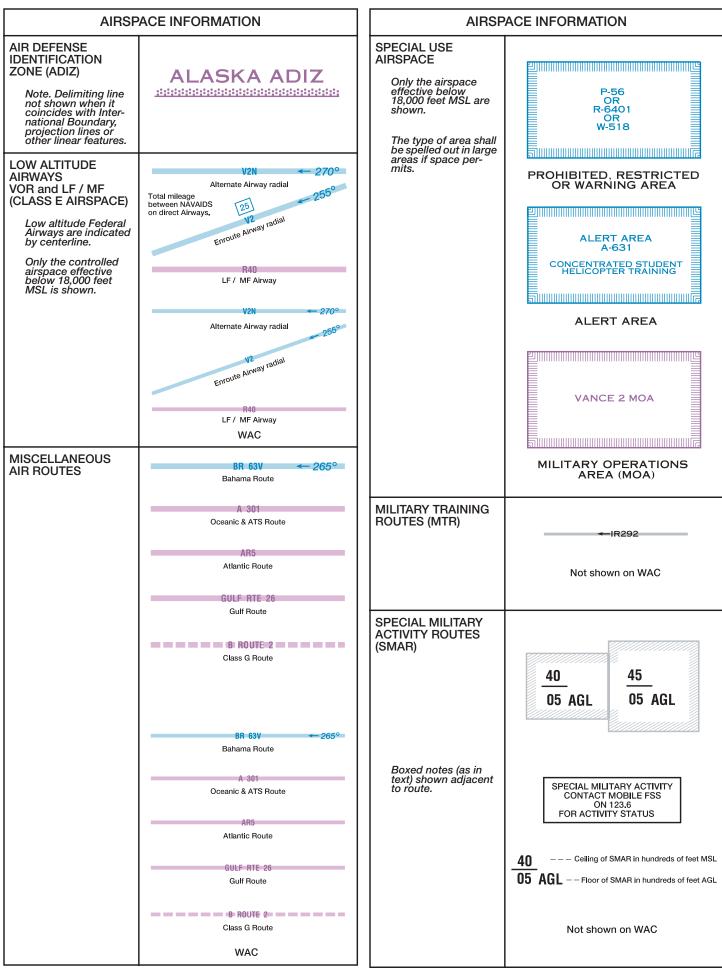


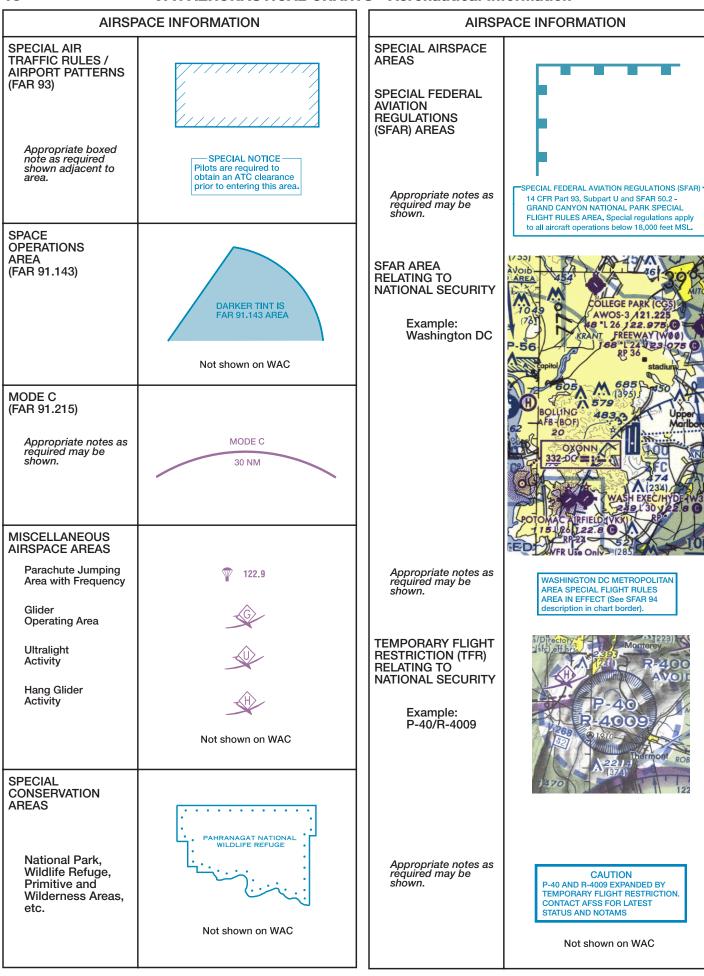


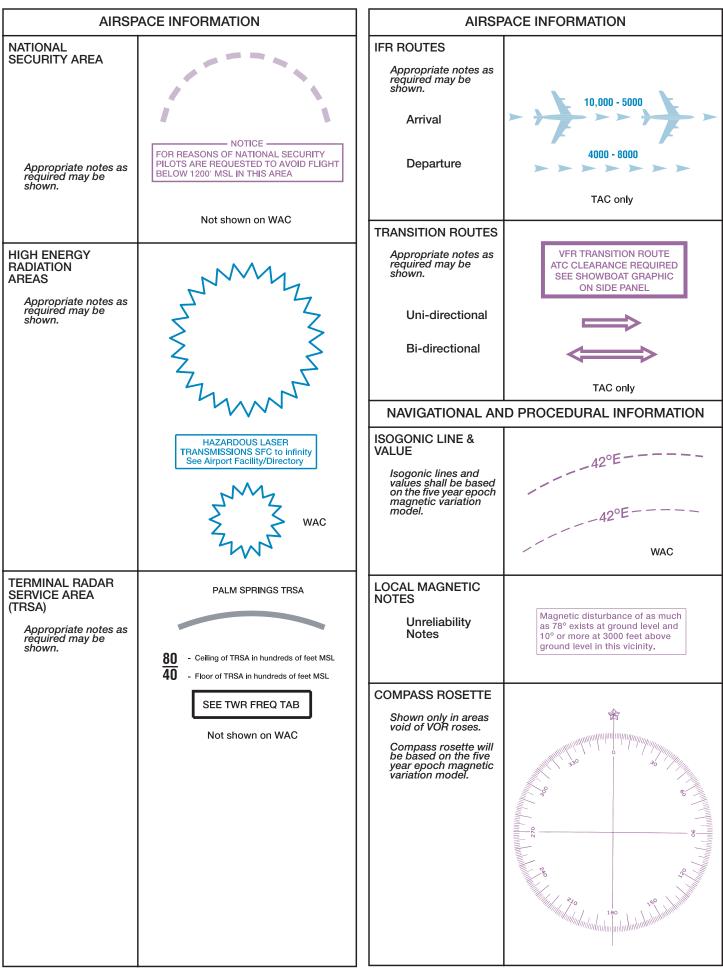


AIRSPACE INFORMATION AIRSPACE INFORMATION **CLASS E AIRSPACE CANADIAN AIRSPACE** The limits of Class E Individual units of airspace shall be shown by narrow vignettes or by the designated Canadian airspace are not nec-[25] anspace are not nec-essarily shown; instead, the aggre-gate lateral and verti-cal limits shall be dashed magenta symbol. Individual units of designated airis of designated airspace are not nec-essarily shown; instead, the aggre-gate lateral and verti-cal limits shall be See NOTAMs/Directory portrayed as closely as possible to the comparable U.S. airfor Class D/E (sfc) eff hrs spaće. defined by the follow-Appropriate notes as Airspace beginning at the surface (sfc) des-ignated around airrequired may be shown. ports ... See NOTAMs/Directory for Class E (sfc) eff hrs See NOTAMs/Directory for 700' Class E eff hrs Airspace beginning at 700 feet AGL ... Airspace beginning at 1200 feet AGL or greater that abuts uncontrolled air-space (Class G) ... Differentiates floors 8000 AGL of airspace greater than 700 feet above the surface... When the ceiling is less than 18,000 feet MSL, the value, pre-fixed by the word "ceiling," shall be shown along the lim-its CEILING 14,000 MSL Not shown on WAC **OFFSHORE CONTROL AREAS** ATLANTIC LOW AIRSPACE OUTSIDE **CONTROL AREA** OF U.S. Other than Canada Class G Airspace Appropriate notes as required may be 9500 MSL ATLANTIC LOW **CONTROL AREA** 8000 MSL **FLIGHT CONTROL AREA 1148L** INFORMATION **REGIONS (FIR)** and /or (CTA) ATLANTIC LOW **CONTROL AREA** WAC ATLANTIC LOW CONTROL AREA CONTROL AREA 1148L **OCEANIC CONTROL AREAS** (OCA)

TCA Class C/D TCA Class C/D WAC Outer limit only. segments not shown 125 - Ceiling of TCA Class C/D in hundreds of feet MSL 25 - Floor of TCA Class C/D in hundreds of feet MSL Class C or D Control Zone [30] ALTITUDE IN HUNDREDS OF FEET MSL Control Zone Not shown on WAC AIRSPACE CLASSIFICATION (SEE CANADA FLIGHT SUPPLEMENT) AND OPERATIONAL REQUIREMENTS (SEE DOD AREA PLANNING AP/1) MAY DIFFER BETWEEN CANADA AND UNITED STATES NOTE: REFER TO CURRENT CANADIAN CHARTS AND FLIGHT INFORMATION PUBLICATIONS FOR INFORMATION WITHIN CANADIAN AIRSPACE NOTE: REFER TO CURRENT DOD (NGA) FLIGHT INFORMATION PUBLICATIONS FOR INFORMATION OUTSIDE OF U.S. AIRSPACE No FIR exists this side - No ticks MONCTON FIR CZQM WINNIPEG FIR CZWG **EDMONTON FIR CZEG OAKLAND OCEANIC CONTROL AREA**

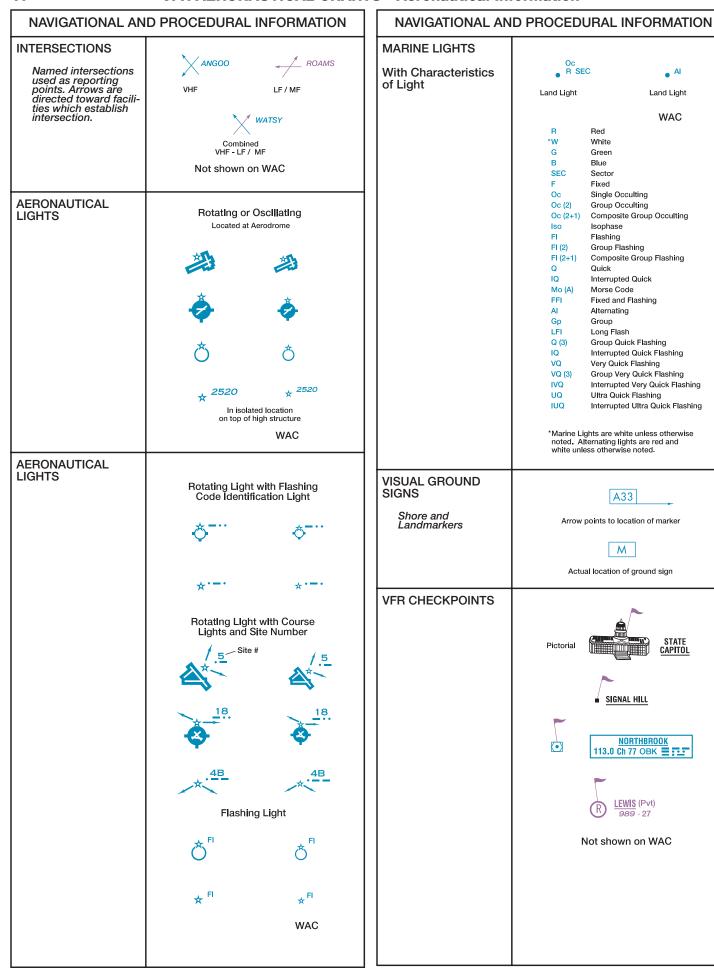


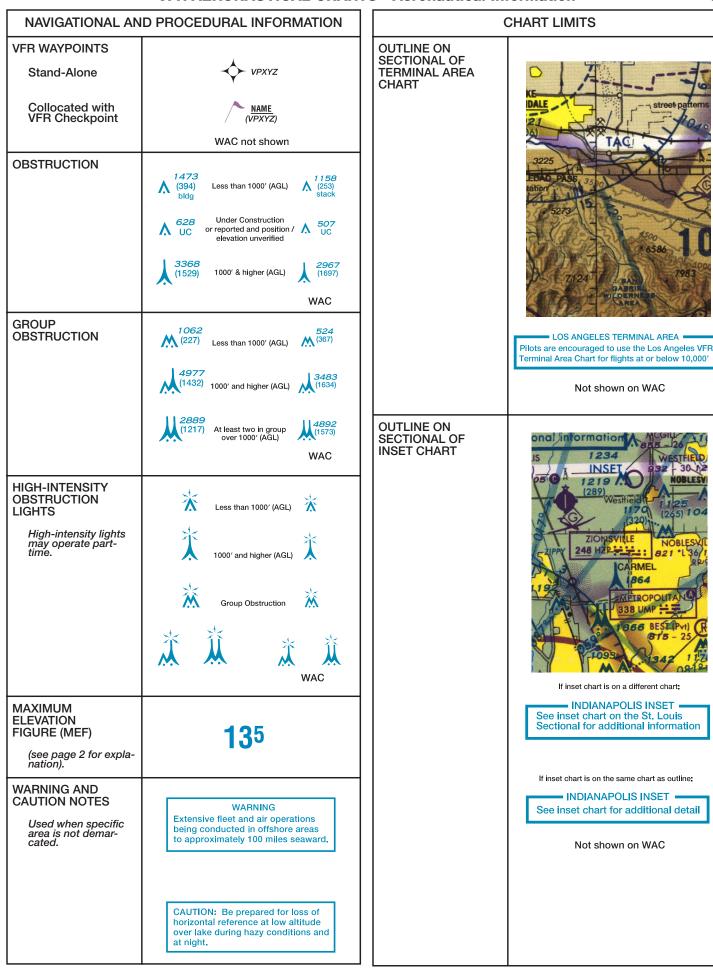


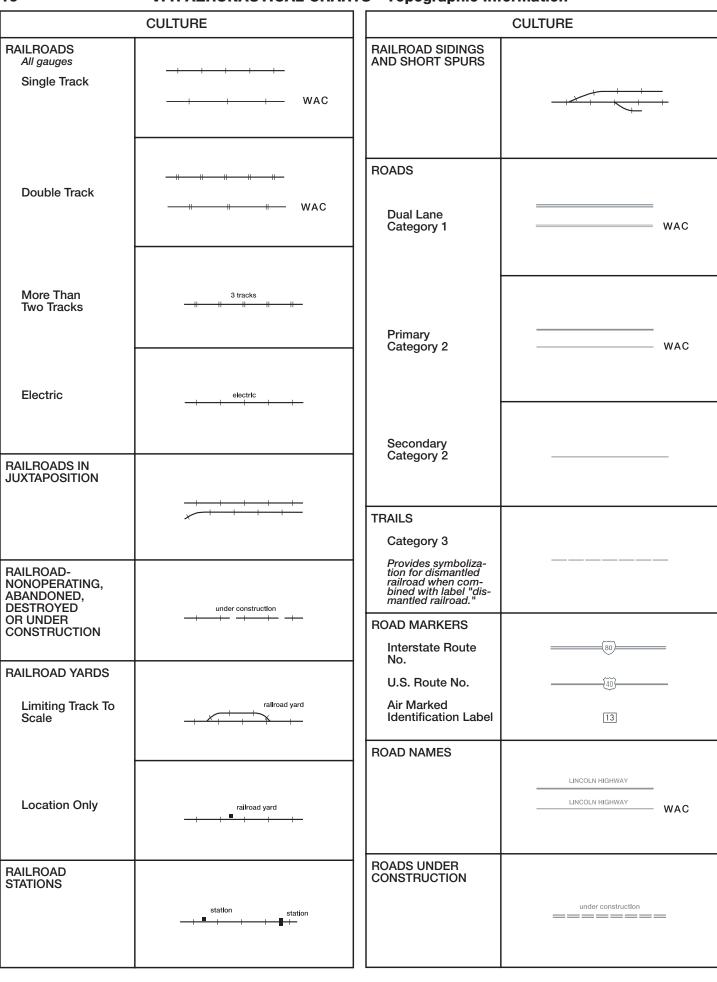


WAC

STATE CAPITOL







	CULTURE		CULTURE
BRIDGES AND VIADUCTS Railroad Road OVERPASSES AND UNDERPASSES		FERRIES, FERRY SLIPS AND FORDS	ferry ford ford
CAUSEWAYS		PROMINENT FENCES	—x——x——x——x-
TUNNELS-ROAD AND RAILROAD	Jan	BOUNDARIES International	
POPULATED PLACES OUTLINED Large Cities Category 1		State and Provincial	
Cities and Large Towns Category 2		Convention or Mandate Line	RUSSIA TO THE THE THE STATES
POPULATED PLACES Towns and Villages Category 3	○ □ WAC	Date Line	INTERNATIONAL (Monday) DATE LINE (Sunday)

	CULTURE		
	CULTURE		CULTURE
TIME ZONES	$HC = \frac{PST}{VDT} = UTC$ Not shown on WAC	SMALL LOCKS	T
MINES AND QUARRIES Shaft Mines and Quarries	×	WEIRS AND JETTIES	jetties
POWER TRANSMISSION & TELECOMMUNICA- TION LINES	-å	SEAWALLS	seawall
PIPELINES	plpeline 	BREAKWATERS	breakwater
Underground	underground pipeline	PIERS, WHARFS, QUAYS, ETC.	piers
DAMS		MISCELLANEOUS CULTURAL FEATURES	■ stadium ■ fort ■ cemetery
DAM CARRYING ROAD		OUTDOOR THEATER	ବ
PASSABLE LOCKS	locks	WELLS Other Than Water	oll O

	CULTURE		YDROGRAPHY
RACE TRACKS		SHORELINES	
NACE TRACKS		Definite	or of
LOOKOUT TOWERS Air marked identification	P-17 (Site Number) O 618 (Elevation Base of Tower)	Fluctuating	oren en
LANDMARK AREAS	dark area	Unsurveyed Indefinite	or or or
TANKS	water oil	Man-made	orn of
COAST GUARD STATION	• gas CG	LAKES Label as required Perennial When too numerous to show individual lakes, show representative pattern and descriptive note.	numerous small lakes
AERIAL CABLEWAYS, CONVEYORS, ETC.	aerial cableway aerial cableway	Non-Perennial (dry, intermittent, etc.) Illustration includes small perennial lake	
	WAC	RESERVOIRS Natural Shorelines	
H OPEN WATER	YDROGRAPHY	Man-made Shorelines Label when neces- sary for clarity	reservoir
	of the same	Too small to show to scale	reservoir
INLAND WATER		Under Construc- tion	under construction

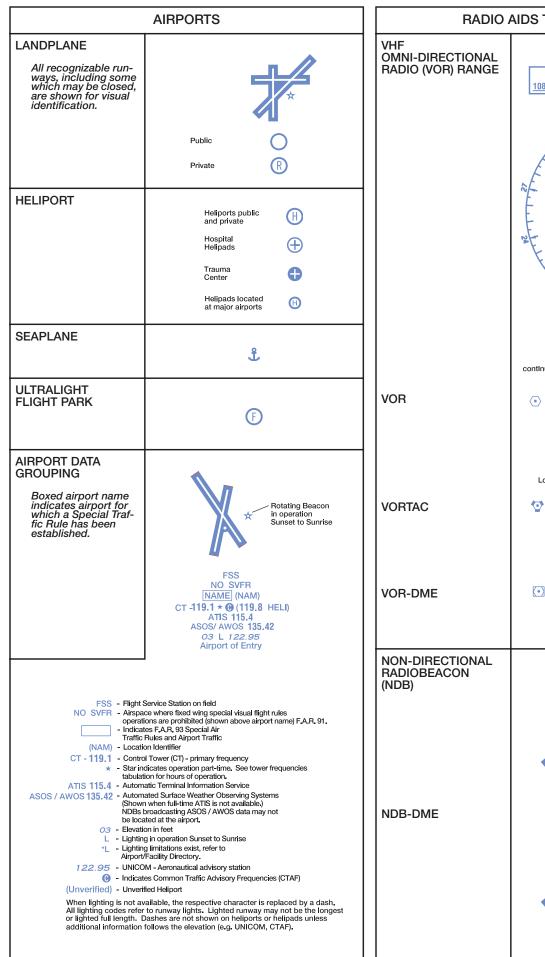
Н	YDROGRAPHY		YDROGRAPHY
STREAMS		WET SAND AREAS	
Perennial		Within and adjacent to desert areas	
Non-Perennial		AQUEDUCTS	<u>aqueduct</u>
Fanned Out Alluvial fan		Abandoned or Under Construction	abandoned aqueduct
Braided	VSSE 2	Underground	underground aqueduct
Disappearing		Suspended or Elevated	
Seasonally Fluctuating with undefined limits		Tunnels	
with maximum bank limits, prominent and constant		Kanats Underground aqueduct with air vents	underground aqueduct
Sand Deposits In and Along Riverbeds			

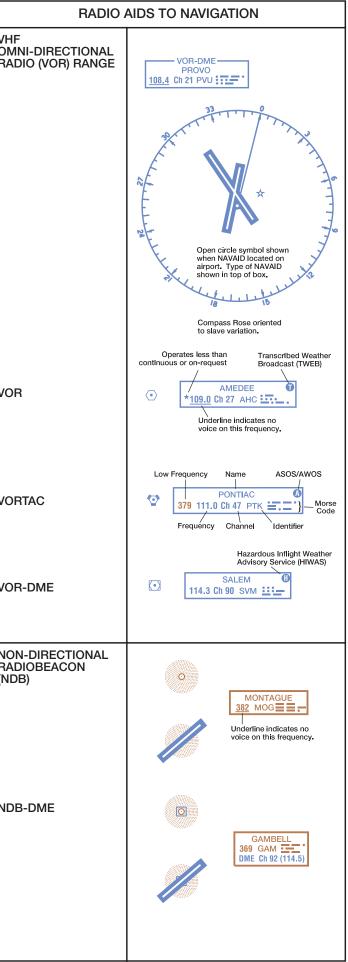
н	YDROGRAPHY		YDROGRAPHY
FLUMES, PENSTOCKS AND SIMILAR FEATURES	<u>flume</u>	To Scale	
Elevated		Abandoned or Under Construction	<u>abandoned</u>
Underground	underground flume	Abandoned to Scale	abandoned
FALLS Double-Line	falls	SMALL CANALS AND DRAINAGE / IRRIGATION DITCHES Perennial	
Single-Line	falls	Non-Perennial	
RAPIDS Double-Line	rapids	Abandoned or Ancient	
Single-Line	rapids	Numerous Representative pattern and/or descriptive note.	
CANALS	<u>ERIE</u>	Numerous	numerous canals and ditches

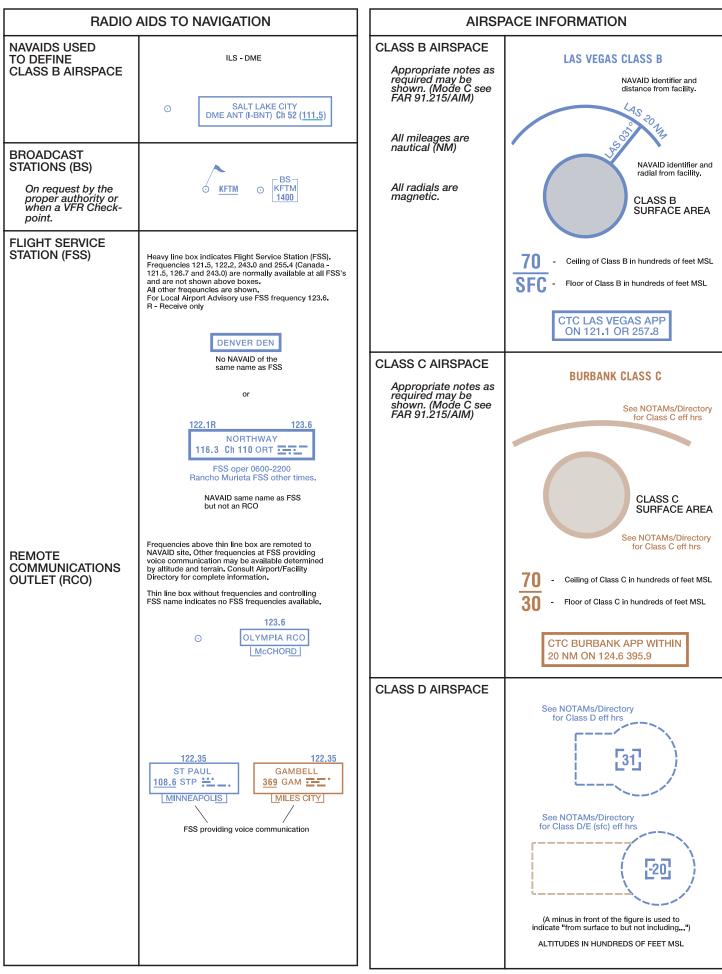
Н	YDROGRAPHY	Н	YDROGRAPHY
SALT EVAPORATORS AND SALT PANS MAN EXPLOITED	salt pans	LAND SUBJECT TO INUNDATION	
SWAMPS, MARSHES AND BOGS	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SPRINGS, WELLS AND WATERHOLES	•
HUMMOCKS AND RIDGES		GLACIERS	
MANGROVE AND NIPA	mangrove the second sec	GLACIAL MORAINES	
PEAT BOGS	peat bog	ICE CLIFFS	White the state of
TUNDRA	tundra	SNOWFIELDS, ICE FIELDS AND ICE CAPS	- 0000 - 00000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 00000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 00000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000
CRANBERRY BOGS	cranberry bog	ICE PEAKS	The second
RICE PADDIES Extensive areas indicated by label only.		FORESHORE FLATS Tidal flats exposed at low tide.	

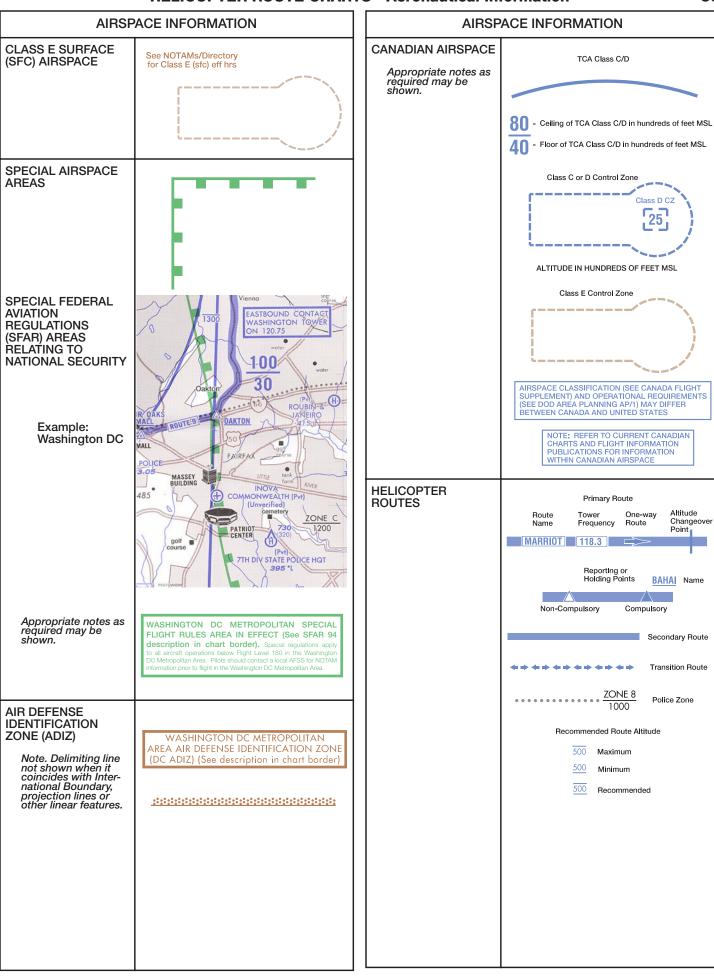
_	WENDERS OF A PUNC		
	HYDROGRAPHY		RELIEF
ROCKS-ISOLATED		CONTOURS	
Bare or Awash	×		
		Basic	
WRECKS			
Exposed	<u> </u>		
REEFS-ROCKY OR CORAL	COCAL COCAL	Approximate	
MISCELLANEOUS UNDERWATER FEATURES NOT OTHERWISE SYMBOLIZED	shoals	Intermediate	
FISH PONDS AND HATCHERIES	fish hatchery		WAC
ICE		Auxiliary	WAC
Permanent Polar Ice	shelf ice	Depression Illustration includes mound within depression	2000
	APPROXIMATE MINIMUM LIMITS POLAR ICE FOR SEPTEMBER THE SEPTEMBER Cliff	Values	6000
Pack Ice	pack Ice pack Ice APPROXIMATE MAXIMUM APPROXIMAT		

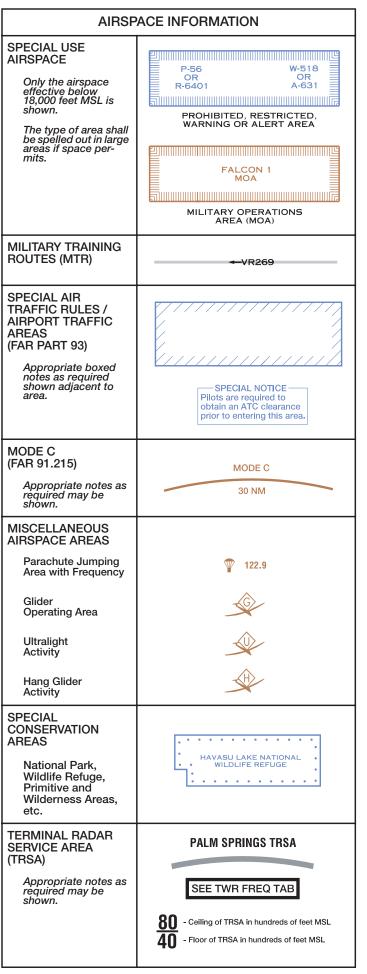
Z1	VFN AERONAUTICAL CHAN	- ropograpino in	
	RELIEF		RELIEF
SPOT ELEVATIONS Position Accurate	2216	SAND OR GRAVEL AREAS	
Position Accurate, Elevation Approximate	2260	SAND RIDGES To Scale	
Approximate location	2119	SAND DUNES To Scale	
Critical	6973 6973	SHADED RELIEF	
Highest on Chart	12770		
MOUNTAIN PASS) (12632	ROCK STRATA OUTCROP	rock strata
HACHURING		QUARRIES TO SCALE	quarry
UNSURVEYED AREAS Label appropriately as required	UNSURVEYED	STRIP MINES, MINE DUMPS AND TAILINGS To Scale	strip mine dump
UNCONTOURED AREAS Label appropriately as required	RELIEF DATA INCOMPLETE	CRATERS	crater O crater
DISTORTED SURFACE AREAS	lava	ESCARPMENTS, BLUFFS, CLIFFS, DEPRESSIONS, ETC.	A Continue of the continue of
LAVA FLOWS		LEVEES AND ESKERS	levee

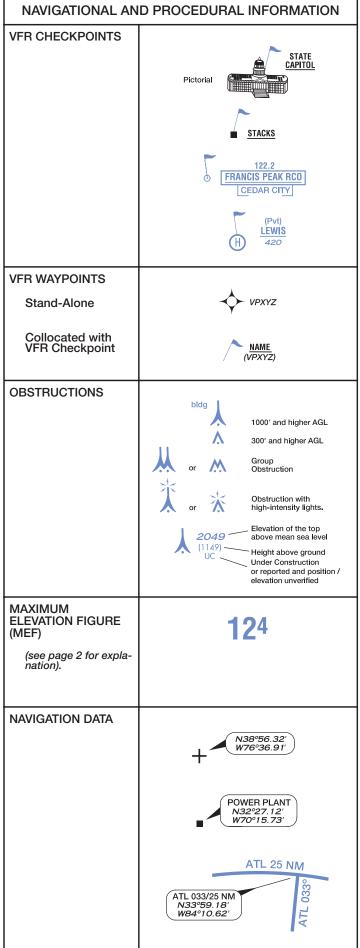




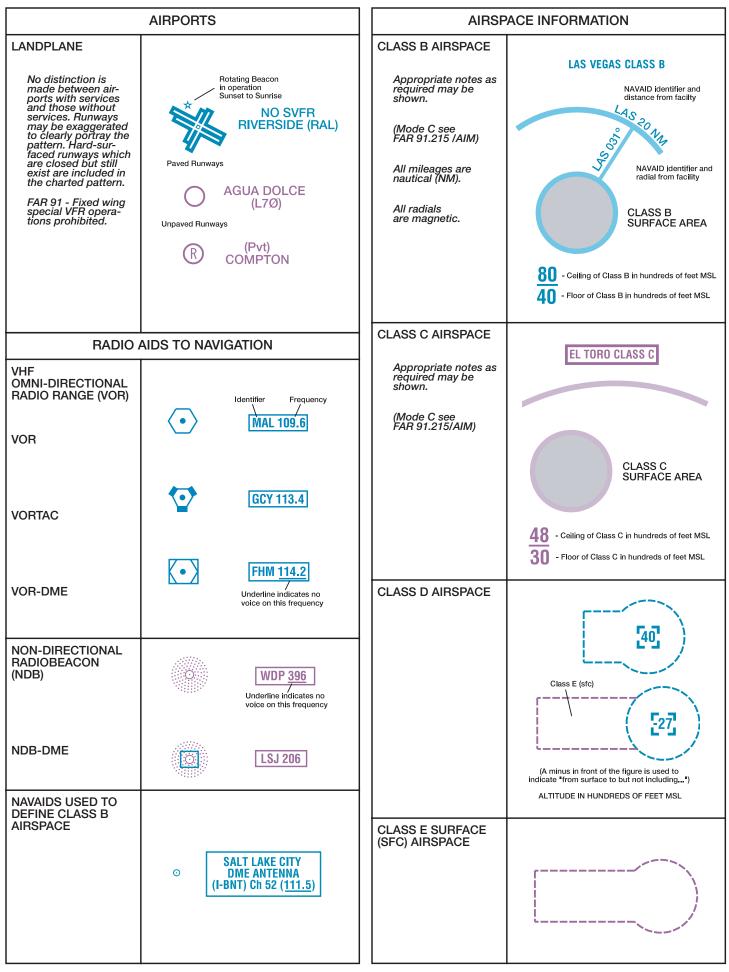




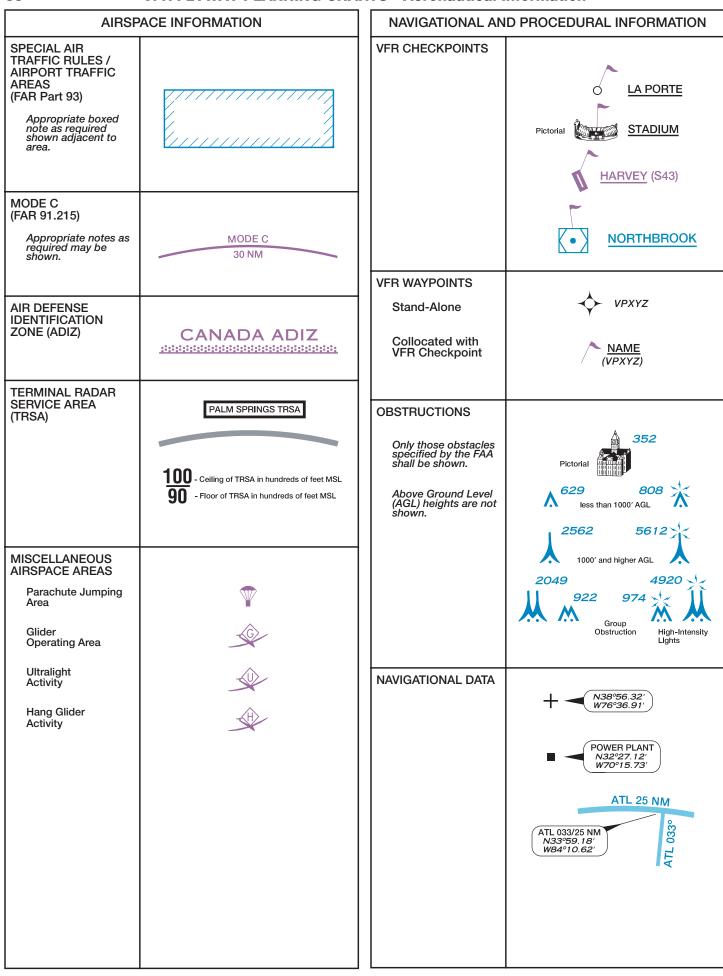




NAVIGATIONAL AN	ID PROCEDURAL INFORMATION		CULTURE
WARNING AND CAUTION NOTES	WARNING Extensive fleet and air operations being conducted in offshore areas to approximately 100 miles seaward. CAUTION: Be prepared for loss of	POWER TRANSMISSION LINES	
LOCAL MAGNETIC	horizontal reference at low altitude over lake during hazy conditions and at night.	PROMINENT PICTORIALS	TEMPLE
NOTES			
Unreliability Notes	Magnetic disturbance of as much as 78° exists at ground level and 10° or more at 3000 feet above ground level in this vicinity.	LANDMARKS	■ Landmark Feature-stadium, factory, school, etc.
			Mines and Race Track Quarries
	CULTURE		Outdoor Tank-water,
RAILROADS			Theater oil or gas
Single Track		Н	YDROGRAPHY
Double Track		SHORELINES	8 25 ES
ROADS	HOLLYWOOD BOULEVARD		0520
Dual Lane Primary	(495) (95) (25)	MAJOR LAKES AND RIVERS	
BRIDGES	Railroad	RESERVOIRS	Dam
DODLII ATED			RELIEF
POPULATED PLACES Built-up Areas		SPOT ELEVATIONS Position Accurate	• 405
BOUNDARIES			
International			
State and Provincial			
			•



AIRSPACE INFORMATION AIRSPACE INFORMATION SPECIAL AIRSPACE SUGGESTED VFR **AREAS FLYWAY AND ALTITUDE** Direction 35 195° 2600 6700 015° Altitude Radial/Bearing from or to NAVAID . Altitude Change SPECIAL FEDERAL **AVIATION REGULATIONS** (SFAR) AREAS RELATING TO **IFR ROUTES** NATIONAL SECURITY (CGS) Appropriate notes as required may be shown. Example: 15 Washington DC FREEWAY (WOO SEE *FLY 10.000 - 5000 Arrival 4000 - 8000 Departure Appropriate notes as required may be **WASHINGTON DC METROPOLITAN AREA** shown. **SPECIAL FLIGHT RULES AREA IN EFFECT** TRANSITION ROUTES (See SFAR 94 description in chart border). Special regulations apply to all aircraft operations below Flight Level 180 in the Washington DC Metropolitan Area. Pilots should contact a local AFSS for NOTAM information prior to flight in the Washington DC Metropolit VFR TRANSITION ROUTE Appropriate notes as required may be ATC CLEARANCE REQUIRED SEE SHOWBOAT GRAPHIC shown. ON SIDE PANEL **TEMPORARY FLIGHT** MID ATLANTIC (W73) Uni-directional **RESTRICTION (TFR) RELATING TO** NATIONAL SECURITY Bi-directional SPECIAL USE Example: P-40 P-40/R-4009 AIRSPACE R-4009 P-56 W-518 Only the airspace effective below 18,000 feet MSL is OR R-6401 OR A-631 RNING AVOID R-4009 OVE shown. PROHIBITED, RESTRICTED ALERT OR WARNING AREA HIBITED AREA FALCON 1 MOA Appropriate notes as **CAUTION** required may be P-40 AND R-4009 EXPANDED BY TEMPORARY FLIGHT RESTRICTION. MILITARY OPERATIONS shown. AREA (MOA) CONTACT AFSS FOR LATEST STATUS AND NOTAMS. **MILITARY TRAINING** ← IR21 **ROUTES (MTR)**



	CULTURE
RAILROADS	
Single and Multiple Tracks	
ROADS	
Dual Lane	HARBOR FREEWAY (110)
Primary	40}
POPULATED PLACES	BREMERTON
Built-up Areas	
Towns	O LAWRENCEVILLE
BOUNDARIES	
International	
POWER TRANSMISSION LINES	—A———A—
PROMINENT PICTORIALS	TEMPLE
LANDMARKS	■ POWER PLANT
Н	YDROGRAPHY
SHORELINES	or of the
MAJOR LAKES AND RIVERS	Bridge
RESERVOIRS	Dam

