

GEN 2.3 CHART SYMBOLS

2.3.1 Topography

Contours	
Approximate contours	
Relief shown by hachures	
Bluff, cliff or escarpment	
Lava flow	
Sand dunes	
Sand area	
Gravel	
Levee or esker	
Unusual land features appropriately labelled	
Activate volcano	
Mountain pass	
Highest elevation on chart	
Spot elevation	
Spot elevation (of doubtful accuracy)	
Coniferous trees	
Other trees	
Palms	
Areas not surveyed for contour information or relief data incomplete	

2.3.2 Hydrography

Shore line (reliable)	
Shore line (unreliable)	
Tidal flats	
Coral reefs and ledges	
Large river (perennial)	
Small river (perennial)	
Rivers and streams (non-perennial)	
Rivers and streams (unsurveyed)	
Rapids	
Falls	
Canal	
Abandoned canal Note: Dry canal having landmark value	
Lakes (perennial)	
Lakes (non-perennial)	
Salt lake	
Salt pans (evaporator)	
Swamp	
Rice field	

2.3.2 Hydrography (Cont.)

Spring well or water hole	Perennial	
	intermittent	
Reservoir		
Dry lake bed	Alternative	
Wash	intermittent	
Shoals		
Glaciers and ice caps		
Danger line (2 M or one fathom line)		
Charted isolated rock		+
Rock awash		
Unusual water features appropriately labelled		

2.3.3 Culture (Cont.)

Trail	
Road bridge	
Road tunnel	
Miscellaneous	
Boundaries (international)	
Outer boundaries	
Fence	
Telegraph or telephone line (when a landmark)	
Dam	
Ferry	
Pipeline	
Oil or gas field	
Tank farms	
Nuclear power station	
Coast guard station	
Lookout tower	
Mine	
Forest ranger station	
Race track or stadium	
Ruins	
Fort	
Church	
Mosque	
Pagoda	
Temple	

2.3.3 Culture

Built-up areas	
City of large town	
Town	
Village	
Buildings	
Railroads	
Railroad (single track)	
Railroad (two or more tracks)	
Railroad (under construction)	
Railroad bridge	
Railroad tunnel	
Railroad station	
Highways and roads	
Dual highway	
Primary road	
Secondary road	

2.3.4 Aerodromes

Civil	Land	
Civil	Water	
Military	Land	
Military	Water	
Joint civil and military	Land	
Joint civil and military water	Water	
Emergency aerodrome or aerodrome with no facilities		
Abandoned or closed aerodrome		
Sheltered anchorage		
Aerodrome for use on charts on which aerodrome classification is not required e.g. Enroute Charts		
Heliport Note: Aerodrome for the exclusive use of helicopters		
Note: Where required by the function of the chart, the runway pattern of the aerodrome may be shown in lieu of the aerodrome symbol, for example:		

2.3.4 Aerodromes (Cont.)

Aerodrome data in abbreviated form which may be in association with aerodrome symbols	
<p>Elevation given in feet</p> <p>Name of aerodrome</p> <p>TAIF 4848 L H 37</p> <p>Length of longest runway in hundreds of metres</p> <p>Minimum lighting - obstacles, boundary or runway lights and lighted wind indicator or landing direction indicator</p> <p>Runway hard surfaced, normally all weather</p> <p>Note: A dash (-) is to be inserted where L or H do not apply</p>	
Aerodrome symbols for approach charts	
Aerodromes affecting the traffic pattern on the aerodrome on which the procedure is based	
The aerodrome on which the procedure is based	

2.3.5 Radio navigation aids

Basic radio navigation aid symbol Note: This symbol may be used with or without a box to enclose the data		
Non-directional radio beacon	NDB	
VHF omnidirectional radio range	VOR	
Distance measuring equipment	DME	
Collocated VOR and DME radio navigation aids	VOR/DME	
DME distance	Distance in (nautical miles) to DME Identification of radio navigation aid	→ 15 DME → JDW
VOR radial	Radial bearing from, and identification of VOR	R 030 JDW RDL 028 JDW LR 120 JDW
UHF tactical air navigation aid	TACAN	
Collocated VOR and TACAN radio navigation aids	VORTAC	
Instrument landing system	ILS	PLAN VIEW
		Electronic FRONT COURSE
		BACK COURSE
		PROFILE
Radio marker beacon		Electronic GLIDE PATH
		Elliptical Bone shape
Note: Marker beacon may be shown by outline, or stipple, or both		
Compass rose To be orientated on the chart in accordance with the alignment of the station (normally Magnetic North)		
Compass rose to be used as appropriate in combination with the following symbols:		
VORTAC		TACAN
VOR/DME		VOR
Note: Additional points of compass may be added as required.		

2.3.6 Air traffic services

Flight information region	FIR						
Aerodrome traffic zone	ATZ						
Control area Airway Controlled route	CTA AWY	Alternative 					
Uncontrolled route							
Advisory airspace	ADA						
Control zone	CTR						
Air defence identification zone	ADIZ						
Advisory route	ADR	Alternative 					
Visual flight path	Compulsory with radio Communication requirement						
	Compulsory without radio communication requirement						
	Recommended						
Scale-break (on ATS route)		Alternative 					
Significant Point Functionality							
	Significant point depiction for conventional navigation	Significant point depiction for area navigation					
Basic Symbols with functionality	REPORTING FLY-BY / FLYOVER	On request (NA)	Compulsory (NA)	On request fly-by	Compulsory fly-by	On request flyover	Compulsory flyover
	VFR reporting point						
	Intersection INT						
	VORTAC						
	TACAN						
	VOR						
	VOR/DME						
	NDB						
Waypoint WPT	Not used	Not used					
Change-over point To be superimposed on the appropriate route symbol at right angles to the route							
ATS/MET Reporting point	Compulsory						
	On request						
Final approach fix	FAF						
Altitudes / flight levels	Altitude / flight level "window"	17 000 10 000	FL 220 10 000				
	"At or above" altitude / flight level	7 000	FL 70				
	"At or below" altitude / flight level	5 000	FL 50				
	"Mandatory" altitude / flight level	3 000	FL 30				
	"Recommended" procedure altitude / flight level	5 000	FL 50				
"Expected" altitude	Expect 5 000 Expect FL 50						
Note: - For use only on SID and STAR charts. Not intended for depiction of minimum obstacle clearance altitude.							

2.3.6 Air traffic services (Cont.)

Airspace classifications																									
	<p>Aeronautical data in abbreviated form to be used in association with airspace classification symbols:</p> <p>TMA TAIF 119.7 C 700 GND 13000 AMSL</p> <p>Type Name or call sign Radio Frequency (ies) Airspace classification Vertical limits</p> <p></p>																								
	Airspace restrictions																								
	<p>Restricted airspace (prohibited, restricted or danger area)</p>																								
	<p>Common boundary of two areas</p>																								
	<p>Note: The angle and density of rulings may be varied according to scale and the size, shape and orientation of the area.</p>																								
	<p>International boundary closed to passage of aircraft except through air corridor</p>																								
	Obstacles																								
Obstacle																									
Lighted obstacle																									
Group obstacles																									
Lighted group obstacles																									
Exceptionally high obstacle (optional symbol)																									
Exceptionally high obstacle - lighted (optional symbol)																									
<p>Note: For obstacles having a height of the order of 300 m (1000 ft) above terrain</p>																									
<p>Elevation of top — 200</p> <p>(175) — Height above specified datum</p>																									
Miscellaneous																									
Prominent transmission line																									
Isogonic line or isogonal																									
Ocean station vessel (normal position)																									
Wind turbine-Unlighted and lighted																									
Wind turbines-minor group and group in major area, lighted																									
Visual aids																									
<p> Note1: Marine alternating lights are red and white unless otherwise indicated. Marine lights are white unless colors are stated</p> <p>Marine light</p> <p>Note 2: Characteristics are to be indicated as follows:</p> <table border="1"> <tr> <td>Alt</td> <td>Alternating</td> <td>Fl</td> <td>Flashing</td> <td>Occ</td> <td>Occulting</td> <td>sec</td> <td>Second</td> </tr> <tr> <td>B</td> <td>Blue</td> <td>G</td> <td>Green</td> <td>R</td> <td>Red</td> <td>(U)</td> <td>Unwatched</td> </tr> <tr> <td>F</td> <td>Fixed</td> <td>GP</td> <td>Group</td> <td>SEC</td> <td>sector</td> <td>W</td> <td>White</td> </tr> </table>	Alt	Alternating	Fl	Flashing	Occ	Occulting	sec	Second	B	Blue	G	Green	R	Red	(U)	Unwatched	F	Fixed	GP	Group	SEC	sector	W	White	
Alt	Alternating	Fl	Flashing	Occ	Occulting	sec	Second																		
B	Blue	G	Green	R	Red	(U)	Unwatched																		
F	Fixed	GP	Group	SEC	sector	W	White																		
Aeronautical ground light	Electronic Lightship 																								

2.3.7 Symbol for aerodrome/heliport chart (cont.)

Aerodrome reference point ARP		
VOR check point		
Runway visual range (RVR) observation site		
Point light		
Obstacle light		
Landing direction indicator (lighted)		
Landing direction indicator (unlighted)		
Stop bar		
Runway-holding position	Pattern(A)	
	Pattern(B)	
Intermediate holding position		
Hot spot		
Note: Hot spot location to be circled		

2.3.8 Symbol for Aerodrome Obstacle chart type A

	Plan	Profile
Tree or shrub		<p>Identification number</p>
Pole, Tower, Spire, Antenna, etc		
Building or large structure		
Railroad		
Transmission line or overhead cable		
Terrain penetrating obstacle plane		
Escarpment		
Stopway SWY		
Clearway CWY		

2.3.7 Symbol for aerodrome/heliport chart

Hard surface runway	
Pierced steel plank or steel mesh runway	
Unpaved runway	
Stopway SWY	
Taxiways and parking areas	
Helicopter alighting area on an aerodrome	

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2.3.9 Additional symbols for use on paper and electronic chart

PLAN VIEW	Electronic
<p>Minimum sector altitude MSA</p> <p>Note: This symbol may be modified to reflect particular sector shapes.</p>	
<p>Terminal arrival altitude TAA</p> <p>Note: This symbol may be modified to reflect particular TAA shapes.</p>	
<p>Holding pattern</p>	
<p>Missed approach holding</p>	
<p>Missed approach track</p>	

PROFILE VIEW

<p>Runway</p>	
<p>Radio navigation aid (Type of aid and it's use in the procedure to be annotated on top of the symbol)</p>	
<p>Radio marker beacon (Type of beacon to be annotated on top of the symbol)</p>	
<p>Collocated radio navigation aid and marker beacon (Type of aid to be annotated on top of the symbol)</p>	
<p>DME fix (Distance from DME and the fix use in the procedure to be annotated on top of the symbol)</p>	
<p>Collocated DME fix and marker beacon (Distance from DME and the type of beacon to be annotated on top of the symbol)</p>	

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