

GEN 2.3 CHART SYMBOLS

1. TOPOGRAPHY

1	Contours		8	Gravel		12	Highest elevation on chart	Alternative	17456
2	Approximate contours		9	Levee or esker	Alternative				.17456
3	Relief shown by hachures					13	Spot elevation		.6397 .8975
4	Bluff, cliff or escarpment		10	Unusual land features appropriately labelled		14	Spot elevation (of doubtful accuracy)		.6370±
5	Lava flow			Active volcano		15	Coniferous trees		
6	Sand dunes		11	Mountain pass		16	Other trees		
7	Sand area					17	Palms		
18	Areas not surveyed for contour information or relief data incomplete								Caution

2. HYDROGRAPHY

19	Shore line (reliable)		30	Abandoned canal Note.— Dry canal having landmark value.		38	Reservoir		
20	Shore line (unreliable)		31	Lakes (perennial)		39	Dry lake bed	Alternative	
21	Tidal flats		32	Lakes (non-perennial)	Alternative	40	Wash	Alternative	
22	Coral reefs and ledges		33	Salt lake		41	Shoals		
23	Large river (perennial)		34	Salt pans (evaporator)		42	Glaciers and ice caps		
24	Small river (perennial)		35	Swamp		43	Danger line (2 m or one fathom line)		
25	Rivers and streams (non-perennial)	Alternative	36	Rice field	Alternative	44	Charted isolated rock		
26	Rivers and streams (unsurveyed)		37	Spring, well or water hole	perennial	45	Rock awash		
27	Rapids				intermittent	46	Unusual water features appropriately labelled		
28	Falls								
29	Canal								

3. CULTURE

BUILT-UP AREAS

47	City or large town	
48	Town	
49	Village	
50	Buildings	

HIGHWAYS AND ROADS

57	Dual highway	
58	Primary road	
59	Secondary road	
60	Trail	
61	Road bridge	
62	Road tunnel	

MISCELLANEOUS (Cont.)

69	Pipeline	
70	Oil or gas field	
71	Tank farms	
72	Nuclear power station	
73	Coast guard station	
74	Lookout tower	
75	Mine	
76	Forest ranger station	
77	Race track or stadium	
78	Ruins	
79	Fort	
80	Church	
81	Mosque	
82	Pagoda	
83	Temple	

RAILROADS

51	Railroad (single track)	
52	Railroad (two or more tracks)	
53	Railroad (under construction)	
54	Railroad bridge	
55	Railroad tunnel	
56	Railroad station	

MISCELLANEOUS

63	Boundaries (international)	
64	Outer boundaries	
65	Fence	
66	Telegraph or telephone line (when a landmark)	
67	Dam	
68	Ferry	

4. AERODROMES

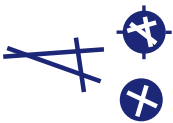
84	Civil	Land	
85	Civil	Water	
86	Military	Land	
87	Military	Water	

88	Joint civil and military	Land	
89	Joint civil and military	Water	
90	Emergency aerodrome or aerodrome with no facilities		
91	Abandoned or closed aerodrome		

92	Sheltered anchorage	
93	Aerodrome for use on charts on which aerodrome classification is not required e.g. Enroute Charts	
94	Heliport Note.— Aerodrome for the exclusive use of helicopters	

95

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:



5. AERODROME DATA IN ABBREVIATED FORM WHICH MAY BE IN ASSOCIATION WITH AERODROME SYMBOLS

96	<p>Elevation given in the units of measurement (metres or feet) selected for use on the chart</p> <p>Minimum lighting — obstacles, boundary or runway lights and lighted wind indicator or landing direction indicator</p> <p><i>Note.— A dash (—) is to be inserted where L or H do not apply.</i></p>	<p>Name of aerodrome</p> <p>LIVINGSTONE</p> <p>357 L H 95</p> <p>Length of longest runway in hundreds of metres or feet (whichever unit is selected for use on the chart)</p> <p>Runway hard surfaced, normally all weather</p>

6. AERODROME SYMBOLS FOR APPROACH CHARTS

97	Aerodromes affecting the traffic pattern on the aerodrome on which the procedure is based	
98	The aerodrome on which the procedure is based	

7. RADIO NAVIGATION AIDS

99	Basic radio navigation aid symbol <i>Note.— This symbol may be used with or without a box to enclose the data.</i>			
100	Non-directional radio beacon	NDB		Electronic
101	VHF omnidirectional radio range	VOR		
102	Distance measuring equipment	DME		
103	Collocated VOR and DME radio navigation aids	VOR/DME		
104	DME distance	Distance in kilometres (nautical miles) to DME — 15 km Identification of radio navigation aid — KAV		
105	VOR radial	Radial bearing from, and identification of, VOR R 090 KAV		
106	UHF tactical air navigation aid	TACAN		

107	Collocated VOR and TACAN radio navigation aids	VORTAC		Electronic
108	Instrument landing system	ILS	<p>PLAN VIEW</p> <p>Electronic</p> <p>FRONT COURSE</p> <p>BACK COURSE</p> <p>PROFILE</p> <p>Electronic</p> <p>GLIDE PATH</p>	
109	Radio marker beacon	Elliptical		
		Bone Shape		
<i>Note.— Marker beacon may be shown by outline, or stipple, or both.</i>				

110	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:	<table><tr><td>VOR</td><td></td></tr><tr><td>VOR/DME</td><td></td></tr><tr><td>TACAN</td><td></td></tr><tr><td>VORTAC</td><td></td></tr></table>	VOR		VOR/DME		TACAN		VORTAC	
	VOR											
	VOR/DME											
	TACAN											
	VORTAC											
<i>Note.— Additional points of compass may be added as required.</i>												

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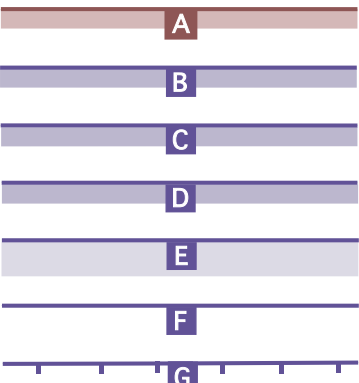
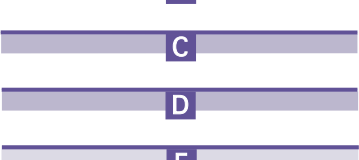
8. AIR TRAFFIC SERVICES

111	Flight information region	FIR		117	Air defence identification zone	ADIZ	
112	Aerodrome traffic zone	ATZ		118	Advisory route	ADR	
113	Control area Airway Controlled route	CTA AWY		119	Visual flight path		
114	Uncontrolled route			120	Scale-break (on ATS route)		
115	Advisory airspace	ADA					
116	Control zone	CTR					

Significant Point Functionality												
				Significant point depiction for conventional navigation		Significant point depiction for area navigation						
121	Basic Symbols with functionality	REPORTING FLY-BY/FLY-OVER		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							
122	Change-over point To be superimposed on the appropriate route symbol at right angles to the route	COP		123	ATS/MET reporting point	MRP	Compulsory		124	Final approach fix	FAF	
							On request					

125	Procedure altitudes/flight levels	Altitude/flight level "window"	<u>17 000</u> <u>10 000</u>	<u>FL 220</u> <u>10 000</u>
		"At or above" altitude/flight level	<u>7 000</u>	<u>FL 070</u>
		"At or below" altitude/flight level	<u>5 000</u>	<u>FL 050</u>
		"At" altitude/flight level	<u>3 000</u>	<u>FL 030</u>
		"Recommended" altitude/flight level	5 000	FL 050
		"Expected" altitude/flight level	Expect 5 000	Expect FL 050

9. AIRSPACE CLASSIFICATIONS

126	Airspace classifications		Aeronautical data in abbreviated form to be used in association with airspace classification symbols:
127	Alternative		
		<div><div>TMA DONLON 119.1 C 200m AGL - FL 245</div><div>Type Name or call sign Radio frequency(ies) Airspace classification Vertical limits</div></div> <div><div>C TMA DONLON</div><div>FL 245</div><div>200m AGL</div><div>119.1</div></div>	

10. AIRSPACE RESTRICTIONS

128	Restricted airspace (prohibited, restricted or danger area)		Common boundary of two areas	
Note.— The angle and density of rulings may be varied according to scale and the size, shape and orientation of the area.				
129	International boundary closed to passage of aircraft except through air corridor			

11. OBSTACLES

130	Obstacle		134	Exceptionally high obstacle (optional symbol)	
131	Lighted obstacle		135	Exceptionally high obstacle – lighted (optional symbol)	
132	Group obstacles		Note.— For obstacles having a height of the order of 300 m (1 000 ft) above terrain.		
133	Lighted group obstacles		136	<p>Elevation of top (italics) → 52 Height above specified datum (upright type in parentheses) → (15)</p>	

12. MISCELLANEOUS

137	Prominent transmission line		140	Wind turbine – unlighted and lighted	
138	Isogonic line or isogonal		141	Wind turbines – minor group and group in major area, lighted	
139	Ocean station vessel (normal position)				

13. VISUAL AIDS

142	Marine light <i>Note 2.— Characteristics are to be indicated as follows:</i>		Alt B F	Alternating Blue Fixed	<i>Note 1.— Marine alternating lights are red and white unless otherwise indicated. Marine lights are white unless colours are stated.</i>	Fl G Gp	Flashing Green Group	Occ R SEC	Occulting Red Sector	sec (U) W	Second Unwatched White
143	Aeronautical ground light			Electronic 	144	Lightship					

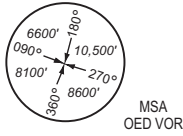
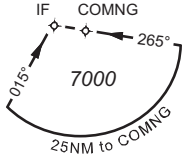


14. SYMBOLS FOR AERODROME/HELIPORT CHARTS







145	Hard surface runway		154	Point light	
146	Pierced steel plank or steel mesh runway				
147	Unpaved runway		155	Obstacle light	
148	Stopway SWY		156	Landing direction indicator (lighted)	
149	Taxiways and parking areas		157	Landing direction indicator (unlighted)	
150	Helicopter alighting area on an aerodrome		158	Stop bar	
151	Aerodrome reference point ARP		159	Runway-holding position <i>Note.— For application, see Annex 14, Volume I, 5.2.10.</i>	Pattern A
152	VOR check-point				Pattern B
153	Runway visual range (RVR) observation site		160	Intermediate holding position <i>Note.— For application, see Annex 14, Volume I, 5.2.11.</i>	
			161	Hot spot <i>Note.— Hot spot location to be circled.</i>	

15. SYMBOLS FOR AERODROME OBSTACLE CHARTS - TYPE A, B AND C

	Plan	Profile		Plan	Profile
162	Tree or shrub		167	Terrain penetrating obstacle plane	
163	Pole, tower, spire, antenna, etc.		168	Escarpment	
164	Building or large structure		169	Stopway SWY	
165	Railroad		170	Clearway CWY	
166	Transmission line or overhead cable				

16. ADDITIONAL SYMBOLS FOR USE ON PAPER AND ELECTRONIC CHARTS

PLAN VIEW			Electronic
171	Minimum sector altitude <i>Note.— This symbol may be modified to reflect particular sector shapes.</i>	MSA	
172	Terminal arrival altitude <i>Note.— This symbol may be modified to reflect particular TAA shapes.</i>	TAA	
173	Holding pattern		
174	Missed approach track		

PROFILE		
175	Runway	
176	Radio navigation aid (type of aid and its use in the procedure to be annotated on top of the symbol)	
177	Radio marker beacon (type of beacon to be annotated on top of the symbol)	
178	Collocated radio navigation aid and marker beacon (type of aid to be annotated on top of the symbol)	
179	DME fix (distance from DME and the fix use in the procedure to be annotated on top of the symbol)	
180	Collocated DME fix and marker beacon (distance from DME and the type of beacon to be annotated on top of the symbol)	

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