

NATO UNCLASSIFIED

**NORTH ATLANTIC TREATY ORGANIZATION
ORGANISATION DU TRAITE DE L'ATLANTIQUE NORD**

**MILITARY AGENCY FOR STANDARDIZATION (MAS)
BUREAU MILITAIRE DE STANDARDISATION (BMS)
1110 BRUSSELS**

27 JUN 2000

Tel : 707.55.89
Fax : 707.57.18
masair@hq.nato.int
AIR BOARD

15 June 2000

MAS(AIR)0698-IGEO/3675

See Distribution List Air N° 14


**STANAG 3675 IGEO (EDITION 2) – SYMBOLS ON LAND MAPS, AERONAUTICAL
AND SPECIAL NAVAL CHARTS**

Reference(s):

- a. MAS(AIR)1473-IGEO/3675 dated 13 December 1999 (Edition 2)(Ratification Draft 1)
 - b. MAS(AIR)(74)115 dated 4 June 1974 (Edition 1)
1. The enclosed NATO Standardization Agreement which has been ratified by nations as reflected in page iii is promulgated herewith.
 2. The references listed above are to be destroyed in accordance with local document destruction procedures.
 3. AAP-4 should be amended to reflect the latest status of the STANAG.

ACTION BY NATIONAL STAFFS

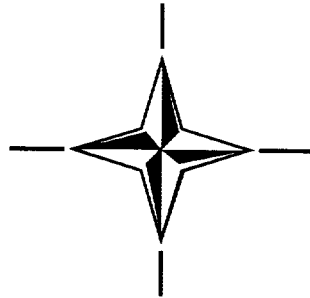
4. National staffs are requested to examine page iii of the STANAG and, if they have not already done so, advise the Air Board, MAS through their national delegation as appropriate of their intention regarding its ratification and implementation.



A. GRØNHEIM
Major General, NOAF
Chairman MAS

Enclosure:
STANAG 3675 (Edition 2)

**NORTH ATLANTIC TREATY ORGANIZATION
(NATO)**

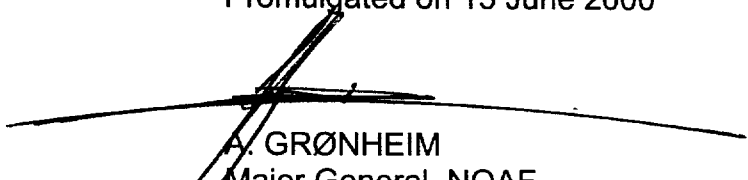


**MILITARY AGENCY FOR STANDARDIZATION
(MAS)**

**STANDARDIZATION AGREEMENT
(STANAG)**

SUBJECT: SYMBOLS ON LAND MAPS, AERONAUTICAL AND SPECIAL
NAVAL CHARTS

Promulgated on 15 June 2000



A. GRØNHEIM
Major General, NOAF
Chairman, MAS

NATO UNCLASSIFIED

RECORD OF AMENDMENTS

No.	Reference/date of amendment	Date entered	Signature

EXPLANATORY NOTES

AGREEMENT

1. This NATO Standardization Agreement (STANAG) is promulgated by the Chairman MAS under the authority vested in him by the NATO Military Committee.
2. No departure may be made from the agreement without consultation with the tasking authority. Nations may propose changes at any time to the tasking authority where they will be processed in the same manner as the original agreement.
3. Ratifying nations have agreed that national orders, manuals and instructions implementing this STANAG will include a reference to the STANAG number for purposes of identification.

DEFINITIONS

4. Ratification is "In NATO Standardization, the fulfilment by which a member nation formally accepts, with or without reservation, the content of a Standardization Agreement" (AAP-6).
5. Implementation is "In NATO Standardization, the fulfilment by a member nation of its obligations as specified in a Standardization Agreement" (AAP-6).
6. Reservation is "In NATO Standardization, the stated qualification by a member nation that describes the part of a Standardization Agreement that it will not implement or will implement only with limitations" (AAP-6).

RATIFICATION, IMPLEMENTATION AND RESERVATIONS

7. Page iii gives the details of ratification and implementation of this agreement. If no details are shown it signifies that the nation has not yet notified the tasking authority of its intentions. Page iv (and subsequent) gives details of reservations and proprietary rights that have been stated.

FEEDBACK

8. Any comments concerning this publication should be directed to NATO/MAS - Bvd Leopold III - 1110 Brussels - BE.

NATO UNCLASSIFIED

Agreed English/French Texts

STANAG 3675
(Edition 2)

NAVY/ARMY/AIR

NATO STANDARDIZATION AGREEMENT
(STANAG)

SYMBOLS ON LAND MAPS, AERONAUTICAL AND
SPECIAL NAVAL CHARTS

Annex: A. Symbols Recommended for Use on Standardized Maps and Charts

Related Documents: STANAG 2255 IGEO - MGD - PORTS
AMovP-1 - REGULATIONS AND PROCEDURES
FOR ROAD MOVEMENTS AND
IDENTIFICATION OF MOVEMENT
CONTROL AND TRAFFIC CONTROL
PERSONNEL AND AGENCIES
STANAG 3412 IGEO - AERONAUTICAL INFORMATION ON
AERONAUTICAL CHARTS
STANAG 3600 IGEO - TOPOGRAPHICAL LAND MAPS AND
AERONAUTICAL CHARTS 1:250,000
FOR JOINT OPERATIONS
STANAG 3677 IGEO - STANDARD SCALES FOR LAND
MAPS AND AERONAUTICAL
CHARTS
STANAG 7074 IGEO - DIGITAL GEOGRAPHIC
INFORMATION EXCHANGE
STANDARD (DIGEST)
INTERNATIONAL HYDROGRAPHIC ORGANIZATION
INTERNATIONAL CHART SERIES INT 1 - SYMBOLS,
ABBREVIATIONS, AND TERMS USED ON CHARTS
INTERNATIONAL CIVIL AVIATION ORGANIZATION - ANNEX 4
TO THE CONVENTION ON INTERNATIONAL CIVIL AVIATION -
AERONAUTICAL CHARTS

AIM

1. The aim of this agreement is to standardize the basic symbols used on topographical land maps, aeronautical charts and special naval charts.

AGREEMENT

2. Participating nations agree that when producing topographical land maps, aeronautical charts and special naval charts for the use of NATO Armed Forces, the provisions of the Details of Agreement and the symbols shown in Annex A are recommended to be used for communication network features. These include, at the very least, roads, railroads, built-up areas (populated places), power transmission lines (high tension), aeronautical data, and hydrography where applicable. Other feature symbology in this agreement will be shown whenever feasible.
3. Where a new series is being produced or where the existing series is to be reassigned, the agreement in paragraph 2 will be adhered to as closely as is feasible.
4. When antecedent mapping or charting exists, conversion to conform to this agreement shall be undertaken as resources permit.
5. In an emergency, for reasons of economy or speed of production, nations may modify the degree of standardization.
6. This agreement is in no way concerned with the indication of special military information by the use of special symbols drawn or surprinted (overprinted) on maps or charts.
7. Civil mapping and charting agencies of the NATO nations shall be informed of this agreement and encouraged to conform.

GENERAL

8. Symbols are designated for cartographic products ranging in scale as follows:
 - a. Land Maps - 1:25,000 to 1:1,000,000.
 - b. Aeronautical Charts - 1:250,000, 1:500,000, 1:1,000,000 and 1:2,000,000.
 - c. Special Naval Charts - 1:1,000,000 and larger.
9. Symbols to be used on maps and charts at scales larger than 1:25,000 and smaller than 1:2,000,000 scale, are not included in this STANAG.
10. Maps and charts at scale 1:250,000 produced for use in joint land/air operations shall adhere to the Series 1501/1501 AIR symbols and specifications for all aspects of the product types. Features and colours to be shown on this series shall be in accordance with the specifications, which reflect the provisions of STANAG 3600 and are mandatory.
11. Annex A includes a "remarks" column to provide additional information regarding the symbols such as scale and product recommendations, colour options, labelling options, cross-references, and special conditions. Any notes in the "remarks" column which are aligned with a symbol title in the "description" column pertain to all of the

NATO UNCLASSIFIED

symbols below that title. Any notes in the "remarks" column aligned with a symbol pertain only to that specific symbol.

12. The symbolization of map and chart features, in some cases, may differ according to the scale and purpose of the map or chart. However, whenever feasible, these differences will be clearly explained in the legend or by general notes in the margin of the map or chart.

COLOURS

13. New or redesigned map series should be published in the following preferred colours (also indicated in Annex A):

- a. Black: Cultural features.
- b. Cyan-Blue: Hydrography.
- c. Brown (red-brown): Relief.
- d. Red (red-brown): Road classification.
- e. Green: Vegetation.
- f. Aeronautical-Blue: Aeronautical data.
- g. Purple: Nautical data.

14. Alternate colours may be used unless a specific colour for a particular symbol is made mandatory.

15. Where National Authorities have produced mapping and charting which contain multicolour printings, it may not be possible to include all colours in military editions. In the interest of economy, the number of colours may be reduced by combined printing of colours normally printed separately or by omitting some. In particular, this will arise when printing with mobile field presses. Under these circumstances the road classification colour on land maps shall be maintained as specified in paragraph 25.

FEATURES TO BE SHOWN

16. As a general rule, any feature large enough to be plotted at the scale of the map or chart will be so shown, even if a standard conventional symbol for the feature exists. However, the inclusion in this STANAG of a standard symbol for any feature does not mean that the feature must necessarily be shown. The final decisions relating to the inclusion of any specific feature remains the responsibility of the producer.

SYMBOLS

17. Symbols for features to be shown on maps and charts covered by this STANAG shall normally conform to the provisions of this document.

NATO UNCLASSIFIED

18. The general shape and appearance of each symbol shown in Annex A are established as a standard in order to facilitate recognition and interpretation. Size, gauge of line, and length of pecks (dashes) are not included in the STANAG. These shall be made by the nation having primary responsibility for the series, provided that the basic design remains unaltered and no possibility of confusion is introduced.

19. There may be instances where features merit presentation, or which require further qualification, yet symbols for these features are not provided in Annex A of this STANAG. In such cases, additional symbols may be introduced or symbols shown in Annex A adapted to circumstances. In any case, on land maps, strict adherence to the agreed road classification (see AMovP-1) is most desirable.

20. The pictorial symbols included in Annex A are recommended for use on aeronautical charts at scales of 1:500,000 and 1:1,000,000. These symbols are uniquely designed for immediate recognition by the pilot/navigator thereby allowing instantaneous orientation of the chart to the ground. Features represented by pictorial symbols in Annex A are building (prominent), chimney/smokestack, communication tower/mast, factory, fort/castle, houses of worship (church), lighthouse, and monument.

DESCRIPTIVE LABELS

21. Descriptive labels shall be kept to a minimum. When used on land maps and special naval charts, such labels shall be in the national language(s) of the producing nation, but the most important shall be repeated in English.

22. Type font sizes and styles for descriptive labels are not included in this STANAG and are at the discretion of the producing nation.

23. All aeronautical data on aeronautical charts shall always be in English. A translation in another language(s) may be shown as required.

USE OF NATIONAL SYMBOLS

24. On map and charts in national series, conventional symbols shall be used for all topographic features, except as stated in paragraphs 25 through 28, and shall be appropriate to the scale of the map.

SIGNIFICANT FEATURES ON LAND MAPS AT SCALES 1:25,000 TO 1:1,000,000

25. Roads:

- a. Standard classification of all-weather roads is essential on land maps. In order that national symbols for roads shall remain unaltered where possible, the military classification shall be shown by the addition of a colour printed between the lines of the unchanged national symbols wherever the design of the national maps permits this to be done. In other cases, individual treatment will be necessary.
- b. The classification of roads shall conform to the following principles as directed in AMovP-1:

NATO UNCLASSIFIED

- (1) The all-weather roads will be indicated by a colour printed between the lines of the road symbols. Hard-surface roads (Type X) will be indicated by continuous prominent colour such as red, while loose- or light-surface roads (Type Y) will be indicated by interrupted filling of the same colour. Preference should be given to the use of red (or variation of red) for these road classifications.
- (2) Fair-weather roads (Type Z) will have no colour filling.
- (3) The width of roads will be distinguished by the gauge of the symbol. Obstructions or road narrowings of limited extent shall not unduly affect the road classification.
- (4) The use of a second colour such as yellow is permissible to indicate secondary all-weather roads. (See symbols 502 and 503.)

NOTE: The terms "all-weather road" (Type X and Y) and "fair-weather road" (Type Z) are defined in AMovP-1.

- c. When red (or variation of red) is used to indicate these classifications, it should follow Annex A as closely as practicable. However, the omission of the road casings may be undertaken for hard surface roads as a result of density of cultural features.
- d. Distances along roads, if shown, will be in kilometers.

26. Railroads. It is desirable that the following be indicated in some manner: the number of tracks, whether electrified, and narrow-gauge railroads distinguished from broad- and normal-gauge railroads.

27. Waterways. Canals which are, as a minimum, fifteen (15) meters (fifty (50) feet) wide and approximately two and one-half (2 1/2) meters (eight (8) feet) deep will be annotated "NAVIGABLE" in the national language(s) concerned in addition to the conventional sign.

28. Vegetation:

- a. 1:100,000 scale and larger: when trees (wooded areas) and scrub/brush are indicated by a special green printing on the national map, this indication is adequate for military maps. When trees (wooded areas) and scrub/brush are indicated in any other manner on the national maps, and adequate information is available, a special green tint will be added to the military maps to emphasize these features. A darker shade of green will be used for trees (wooded areas) and a lighter shade for scrub/brush. If it is impracticable to make a distinction between trees (wooded areas) and scrub/brush; both will be indicated by the same shade of green with an appropriate explanation in the legend.
- b. 1:250,000 scale: normally, two classifications will be used which are trees (wooded areas) and scrub/brush. However, in certain cases it would be impossible to distinguish between these two classifications. In such

NATO UNCLASSIFIED

cases, both features will be shown by the same symbol in the same shade of green and noted in the legend.

29. Relief. Relief shall be shown by contours at appropriate metric intervals or by form lines. Shading or other methods of showing relief may be added at the discretion of the nation having primary responsibility for the series concerned.

30. Airfields. The selection and portrayal of airfields is the prerogative of the national mapping authorities since security regulations may be involved, but the symbols in Annex A should be used whenever possible.

AERONAUTICAL CHARTS AT SCALES 1:250,000 TO 1:2,000,000

31. Roads shall be shown by omitting road casings. Road distances will not be shown.

32. International Civil Aviation Organization (ICAO) symbols may be used in lieu of those shown in Annex A.

SPECIAL NAVAL CHARTS AT SCALES OF 1:1,000,000 AND LARGER

33. In general, International Hydrographic Organization (IHO) symbols as laid down in International Chart Series INT 1 "Symbols, Abbreviations, and Terms used on Charts" will be used on Special Naval Charts. Special features may be augmented or amplified by the symbols shown in Annex A.

IMPLEMENTATION OF THE AGREEMENT

34. This STANAG is considered to be implemented by producing nations when they have issued instructions to produce maps and charts in accordance with this agreement and by non-producing nations when they have issued instructions to requisition maps and charts which comply with this agreement.

RATIFICATION AND IMPLEMENTATION DETAILS
STADE DE RATIFICATION ET DE MISE EN APPLICATION

EDITION: 2

N A T I O N	NATIONAL RATIFICATION REFERENCE DE LA RATIFICATION NATIONALE	NATIONAL IMPLEMENTING DOCUMENT NATIONAL DE MISE EN APPLICATION	IMPLEMENTATION / MISE EN APPLICATION					
			INTENDED DATE OF IMPLEMENTATION/ DATE PREVUE POUR MISE EN APPLICATION			DATE IMPLEMENTATION WAS ACHIEVED/ DATE REELLE DE MISE EN APPLICATION		
			NAVY MER	ARMY TERRE	AIR	NAVY MER	ARMY TERRE	AIR
BE	VS3/MAS 00-009618 of/du 28.1.00	STANAG	6.00	6.00	6.00			
CA +	2441-3675 (J2 Geo Ops) of/du 1.3.00	STANAG				3.00	3.00	3.00
CZ	6/2-9/2000-1419 of/du 23.3.00			12.00	12.00			
DA	FKO MAM3 204.68-S3675 9602366-017 of/du 3.3.00		6.00	6.00	6.00			
FR*	734/DEF/EMA/CGI/SRE undated			1.01	1.01			
GE								
GR								
HU	GUF HAT 243/2/2000/1(HK.7.) of/du 10.4.00			1.07	1.07			
IT	134/760/3S.IGEO-3675 of/du 20.4.00	STANAG				4.00	4.00	4.00
LU	NOT PARTICIPATING/ NE PARTICIPE PAS							
NL	NW2000025343 of/du 4.5.00	STANAG				1.00	1.00	1.00
NC								
PL								
PO								
SP	Norope: 019/3675/021D of/du 29.2.00	STANAG				5.00	5.00	5.00
TU	GN.P.P.:2307-164-00/AND.D.S./3675 of/du 1.3.00		1.01	1.01	1.01			
UK	D ES/332/675/NMST of/du 3.3.00	Mil Svy Tech Instr 206	12.00	12.00	12.00			
US								

* See reservations overleaf/voir réserves au verso

+See comments overleaf/Voir commentaires au verso

X Service(s) implementing/Armées mettant en application

NATO UNCLASSIFIED

RESERVATIONS

FR: The French Navy will not implement the STANAG. It uses symbols conveying more information and the special naval charts do not meet the STANAG.

RESERVES

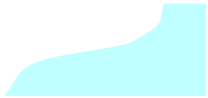


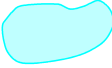





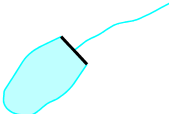

FR: La marine n'appliquera pas ce Stanag. Elle utilise une symbolique plus riche et les cartes spéciales qu'elle produit ne sont pas conformes.

COMMENTS/COMMENTAIRES

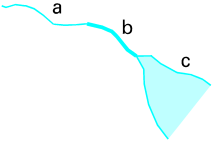
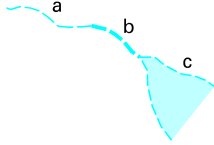






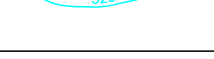
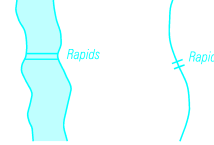
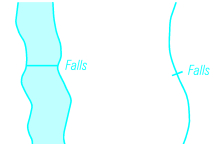
CA: The national production agency is Natural Resources Canada (NRCan); DND will continue to work with NRCan to produce land maps and aeronautical charts IAW with the appropriate STANAGs.

CA: L'organisme de production national est Ressources naturelles Canada (RNCa); le ministère de la Défense nationale continuera à travailler avec RNCa pour produire des cartes terrestres et des cartes aéronautiques conformément aux STANAG appropriés.

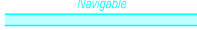







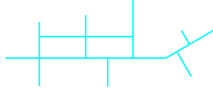






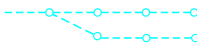
HYDROGRAPHY

No.	DESCRIPTION	SYMBOL	REMARKS
101	OPEN WATER (INCLUDES INLAND)		Applicable to all scales. Use with symbol 102.
102	SHORELINE (INLAND AND COASTAL) Definite Indefinite (includes fluctuating and unsurveyed)	 	Applicable to all scales. Label as necessary for clarity.
103	LAKE / POND Perennial Non-perennial (intermittent) Dry In non-arid area In arid area Water surface elevation and water depth	  <i>Numerous small lakes</i>    	Applicable to all scales. Descriptive notes are added to denote characteristic appearance of alkaline or brackish conditions. Label as necessary for clarity. Number in parenthesis is water depth and is optional.
104	RESERVOIR Natural shoreline Manmade shoreline to scale	  <i>Reservoir</i>	Applicable to all scales. Label as necessary for clarity. Use symbol 902 for 1:500,000 scale and smaller when unable to draw to scale.





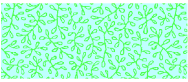
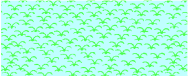
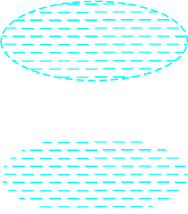

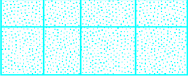
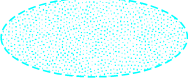
HYDROGRAPHY

No.	DESCRIPTION	SYMBOL	REMARKS
105	RIVER / STREAM		
	Perennial		If feature is indefinite or unsurveyed then label appropriately. a - less than .00036 m. X map/chart scale b - .00036 m. to .0005 m. X map/chart scale c - greater than .0005 m. X map/chart scale
	Non-perennial (intermittent)		a, b, and c applicable to 1:250,000 scale and larger (not mandatory). a and c applicable to 1:250,000 scale and smaller (may be used for all scales).
	Dry river bed or wadi		Applicable to all scales.
	With perennial channel		
	With non-perennial (intermittent) or dry channel		
	Disappearing		Applicable to all scales.
	Dissipating		Applicable to all scales.
	Direction of flow		Applicable to all scales.
	Elevation		Applicable to aeronautical charts at 1:500,000 scale and smaller.
106	RAPIDS		Applicable to all scales. Label appropriately.
107	WATERFALL		Applicable to all scales. Label appropriately.

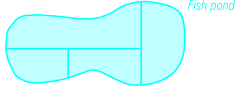
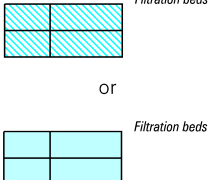








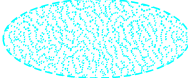
HYDROGRAPHY

No.	DESCRIPTION	SYMBOL	REMARKS
108	CANAL		Applicable to all scales. Label as necessary for clarity. May be used for abandoned canal if appropriately labeled.
	Navigable	 or  or 	
	Abandoned	 or  or 	
	Under construction	 or 	
109	DITCH (FOR IRRIGATION OR DRAINAGE)		Applicable to all scales. Label "Numerous ditches" as necessary.
110	WATER CONDUITS		Applicable to all scales. Label as necessary for clarity. See symbol 527 for non-water pipeline.
	Aqueduct, pipeline, penstock, and flume		
	Surface		
	Elevated		
	Abandoned or under construction		
	Aqueduct, pipeline, and penstock		
	Underground		
	Aqueduct in traversable tunnel		
	Aqueduct in non-traversable tunnel		
	Kanat (Karez)		

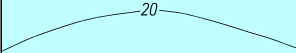



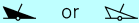
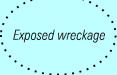
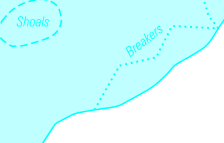
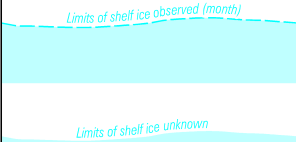
HYDROGRAPHY

No.	DESCRIPTION	SYMBOL	REMARKS
111	MARSH / SWAMP		Applicable to all scales.
112	SMALL CLEARINGS (HUMMOCKS, RIDGES, AND DRY AREAS)		Applicable to all scales.
113	PEAT BOG		Applicable to all scales. Label appropriately.
114	PEAT CUTTINGS		Applicable to all scales. Label appropriately.
115	MANGROVE		Applicable to all scales. Use with symbol 102.
116	NIPA PALM		Applicable to all scales. Use with symbol 102.
117	LAND SUBJECT TO INUNDATION (LSI) Controlled Natural		Label as necessary for clarity. Applicable to 1:250,000 scale and larger. Applicable to all scales. Use for both controlled and natural LSI for 1:500,000 scale and smaller.
118	RICE FIELD		Applicable to all scales. Extensive areas may be indicated by label only.
119	SALT EVAPORATOR (MANMADE)		Applicable to all scales. Label as necessary for clarity. Fill choice is optional.
120	SALT PAN (NATURAL)		Applicable to all scales. Label as necessary for clarity.

HYDROGRAPHY

No.	DESCRIPTION	SYMBOL	REMARKS
121	FISH POND OR HATCHERY		Applicable to all scales. Label as necessary for clarity.
122	SETTLING BASIN AND FILTRATION BEDS	 or 	Applicable to all scales. Label as necessary for clarity. Fill choice is optional but black outline is mandatory. Use symbol 902 for 1:500,000 scale and smaller when unable to draw to scale.
123	SPRING Perennial Non-perennial	   	Label as necessary for clarity. Applicable to 1:250,000 scale and larger. Applicable to 1:500,000 scale and smaller. Applicable to 1:250,000 scale and larger. Applicable to 1:500,000 scale and smaller.
124	WELL Perennial Non-perennial or dry	 	Applicable to all scales. Label as necessary for clarity. See symbol 618 for well (oil or gas).
125	WET SAND		Applicable to all scales. Label as necessary for clarity.
126	SEBKHA (SABKHA)		Applicable to all scales.

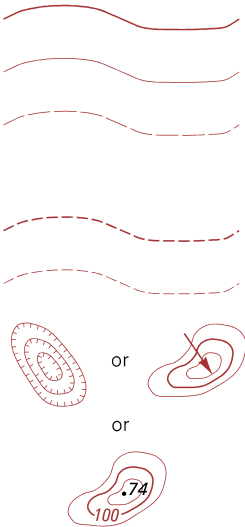


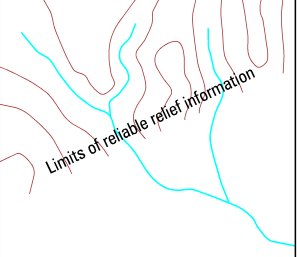
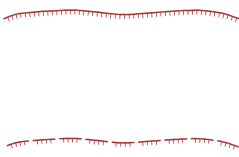
COASTAL HYDROGRAPHY

No.	DESCRIPTION	SYMBOL	REMARKS
201	DEPTH CONTOUR		Applicable to all scales. Optional colour is blue. Interval varies with map or chart scale. Indicate unit of measure in legend.
202	FORESHORE		Applicable to all scales. Label as necessary for clarity. Optional colours are blue or brown. May be used with symbol 206.
203	REEF (ROCKY OR CORAL)		Label appropriately. Applicable to 1:250,000 scale and larger. Optional colour is blue. Applicable to 1:500,000 scale and smaller. Optional colour is black.
204	ROCKS Uncovering Awash Submerged		Applicable to all scales. May be used with symbol 206.
205	WRECK Exposed		Applicable to all scales. May be used with symbol 206.
206	LIMITING DANGER LINE		Applicable to all scales. Label appropriately. May be used with symbols 202, 204, or 205.
207	MISCELLANEOUS UNDERWATER FEATURES NOT OTHERWISE SYMBOLIZED		Applicable to 1:250,00 scale and smaller. Label appropriately.
208	ICE SHELF Limits Known Unknown		Applicable to all scales. Label appropriately.

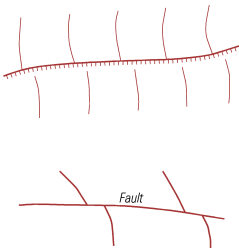
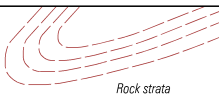

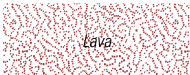

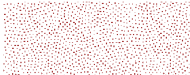
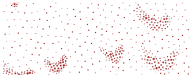
COASTAL HYDROGRAPHY

No.	DESCRIPTION	SYMBOL	REMARKS
209	POLAR ICE	<div><div>APPROXIMATE MINIMUM LIMITS OF PERMANENT POLAR ICE (MONTH)</div><div>or</div><div>APPROXIMATE MINIMUM LIMITS OF PERMANENT POLAR ICE (MONTH)</div></div>	Applicable to all scales. Label appropriately.
210	PACK ICE	<div><div>APPROXIMATE MAXIMUM LIMITS OF PACK ICE (MONTH)</div><div>or</div><div>APPROXIMATE MAXIMUM LIMITS OF PACK ICE (MONTH)</div></div>	Applicable to all scales. Label appropriately.

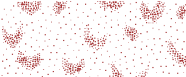
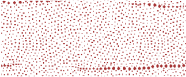
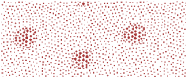
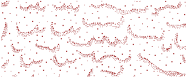
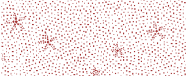
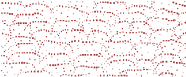






RELIEF

No.	DESCRIPTION	SYMBOL	REMARKS
301	CONTOUR LINE (LAND) Accurate Index Intermediate Supplementary Approximate Index Intermediate Depression		Applicable to all scales. Optional colour is black for aeronautical charts at 1:500,000 scale and smaller. Where hypsometric tints are shown, ticks may be omitted if the tint adequately portrays the depression.
302	CONTOUR VALUE		Applicable to all scales. Optional colour is black for aeronautical charts at 1:500,000 scale and smaller.
303	FORM LINE		Applicable to 1:250,000 scale and larger.
304	UNCONTOURED AREA		Applicable to all scales. Use elevation tints in areas of relief for aeronautical charts at 1:500,000 scale and smaller. Center the note "Relief data incomplete" within the uncontrored area.
305	BLUFF / CLIFF / ESCARPMENT High (greater than or equal to contour interval) Low (less than contour interval)		Applicable to all scales. Optional colour is black for aeronautical charts at 1:500,000 scale and smaller. Applicable to 1:250,000 scale and larger.




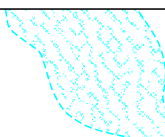
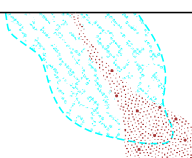

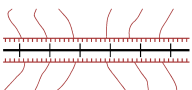
RELIEF

No.	DESCRIPTION	SYMBOL	REMARKS
306	FAULT		<p>Label as necessary for clarity.</p> <p>Applicable to 1:250,000 scale and larger.</p> <p>Applicable to aeronautical charts at 1:500,000 scale and smaller. Optional colour is black.</p>
307	ROCK STRATA / ROCK FORMATION		<p>Applicable to aeronautical charts at 1:500,000 scale and smaller. Label as necessary for clarity. Optional colour is black.</p>
308	CRATER		<p>Label as necessary for clarity.</p> <p>Applicable to 1:250,000 scale and larger.</p> <p>Applicable to aeronautical charts at 1:500,000 scale and smaller. Optional colour is black.</p>
309	GROUND SURFACE ELEMENT (KARST, LAVA, LOESS, BOULDERS, OIL BLISTER)	 <p>or</p> 	<p>See 903 for optional symbol.</p> <p>Applicable to all scales. Label appropriately.</p> <p>Optional symbol for karst is 301 (depression contour).</p> <p>Optional colour is black for aeronautical charts at 1:1,000,000 scale and smaller.</p>
310	SAND		<p>Applicable to all scales.</p> <p>Optional colour is black for aeronautical charts at 1:1,000,000 scale and smaller.</p>
311	SAND DUNE / SAND HILLS		<p>Representative patterns and/or actual shapes are shown as individual areas require. Orient pattern to reflect ground condition.</p> <p>Applicable to aeronautical charts at 1:500,000 scale and smaller. Optional colour is black for aeronautical charts at 1:1,000,000 scale and smaller.</p>

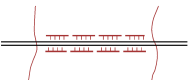
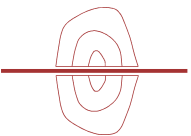
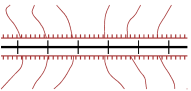
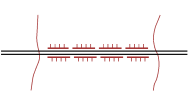




RELIEF

No.	DESCRIPTION	SYMBOL	REMARKS
311	SAND DUNE / SAND HILLS (continued) Crescent Lateral (longitudinal) Mounds Ripple Star Transverse	     	Applicable to 1:250,000 scale and larger.
312	CAVE		Applicable to all scales.
313	UNUSUAL LAND FEATURES (SMALL TOP, PINNACLE, SMALL CINDER CONE, ISOLATED ROCK, SMALL NUNATAK)	 <i>Pinnacle</i>	Applicable to all scales. Label appropriately.
314	ICE PEAK		Applicable to all scales.
315	MOUNTAIN PASS		Applicable to all scales. Name and elevation may be shown.
316	CREVICE / CREVASSE To scale	 <i>Crevice</i>  <i>Crevasse</i>	Applicable to 1:100,000 scale and larger. Label as necessary for clarity.

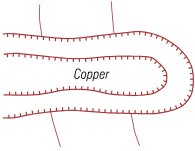
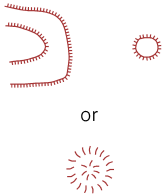

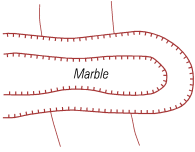
RELIEF

No.	DESCRIPTION	SYMBOL	REMARKS
317	ICE CREVICE / ICE CREVASSE To scale	 	Applicable to 1:100,000 scale and larger. Label as necessary for clarity.
318	ICE CLIFF		Applicable to all scales.
319	GLACIER		Applicable to all scales.
320	MORAINE		Applicable to all scales.
321	SNOW FIELD / ICE FIELD		Applicable to all scales. Label appropriately.
322	SPOT ELEVATION Importance Normal Critical Highest on map or chart Accuracy determination Position and elevation accurate Position accurate, elevation approximate Approximate location	 *576 *792 *950 or * 950 *291 x306 or *306 ± 473 or 473 ±	Applicable to all scales. Type size varies with importance. Box around number is optional. Accuracy symbols apply to normal, critical, and highest spot values based on accuracy determination. Type is centered above approximate location.
323	CUT High (greater than or equal to contour interval)		Applicable to 1:250,000 scale and larger.


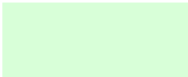
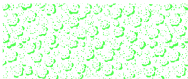




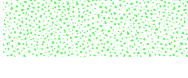


RELIEF

No.	DESCRIPTION	SYMBOL	REMARKS
323	CUT (continued) Low (less than contour interval) or Within one contour interval Through more than one contour interval	 	Applicable to all scales. Optional colour is black for aeronautical charts at 1:500,000 scale and smaller. Applicable to aeronautical charts at 1:500,000 scale and smaller. Optional colour is black.
324	EMBANKMENT / FILL High (greater than or equal to contour interval) or Through more than one contour interval Low (less than contour interval) or Within one contour interval	 	Applicable to 1:250,000 scale and larger. Applicable to aeronautical charts at 1:500,000 scale and smaller. Optional colour is black. Applicable to all scales. Optional colour is black for aeronautical charts at 1:500,000 scale and smaller.
325	LEEVE With road With railroad	 or  <i>Levee</i>  <i>Levee</i>  <i>Levee</i>	Label as necessary for clarity. Optional colour is black for aeronautical charts at 1:500,000 scale and smaller. Applicable to 1:250,000 scale and larger. Applicable to aeronautical charts at 1:500,000 scale and smaller. Applicable to 1:250,000 scale and larger. Applicable to aeronautical charts at 1:500,000 scale and smaller. Applicable to 1:250,000 scale and larger. Applicable to aeronautical charts at 1:500,000 scale and smaller.







RELIEF

No.	DESCRIPTION	SYMBOL	REMARKS
326	MINE		Label with product when known.
	Active	✕	Applicable to all scales. May be used with symbol 903.
	Inactive	✕	Applicable to all scales. May be used with symbol 903.
	Open pit, strip		Applicable to 1:100,000 scale and larger.
	Tailings, mine dump	 or 	Applicable to all scales. Optional colour is black for aeronautical charts at 1:1,000,000 scale and smaller. Use symbol 902 for aeronautical charts at 1:500,000 scale and smaller if unable to draw to scale.
327	QUARRY		Label with product when known.
	Active	✕	Applicable to all scales. May be used with symbol 903.
	Inactive	✕	Applicable to all scales. May be used with symbol 903.
	Open pit		Applicable to 1:100,000 scale and larger.












VEGETATION

No.	DESCRIPTION	SYMBOL	REMARKS
401	TREES (WOODED AREAS)		
	Tint		
	Solid		Applicable to aeronautical charts at 1:500,000 scale for the representation of vegetation (including orchards and vineyards).
	Screened		Applicable to 1:250,000 scale and larger.
	Irregular area pattern		Applicable to aeronautical charts at 1:1,000,000 scale for the representation of vegetation (including orchards and vineyards).
	Evergreen (non-deciduous) forest		Applicable to 1:100,000 scale and larger.
	Deciduous forest		Applicable to 1:100,000 scale and larger.
	Mixed forest		Applicable to 1:100,000 scale and larger.
402	SCATTERED TREES		Applicable to 1:250,000 scale and larger.
403	SCRUB / BRUSH (permanent low growth)		Applicable to 1:100,000 scale and larger.
404	ORCHARD, PLANTATION		Applicable to 1:250,000 scale and larger. Label as appropriate. Use symbol 401 for aeronautical charts at 1:500,000 and 1:1,000,000 scales.
405	VINEYARD, HOPS		Applicable to 1:250,000 scale and larger. Label as appropriate. Use symbol 401 for aeronautical charts at 1:500,000 and 1:1,000,000 scales.






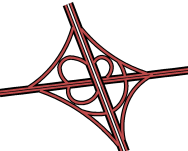

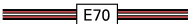


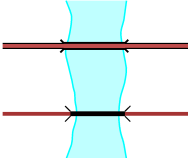
VEGETATION

No.	DESCRIPTION	SYMBOL	REMARKS
406	TROPICAL GRASS		Applicable to 1:250,000 scale and larger.
407	TUNDRA	TUNDRA or 	Applicable to all scales. Can combine text with area pattern.
408	HEDGEROW		Applicable to 1:100,000 scale and larger.
409	ISOLATED TREE		Applicable to 1:100,000 scale and larger. Optional colour is black.
410	OASIS Point symbol Pictorial symbol	 Oasis  Oasis	Applicable to all scales. Use this symbol if the oasis is characterized by palm trees.

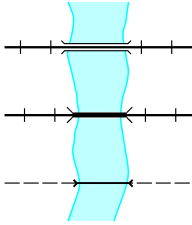
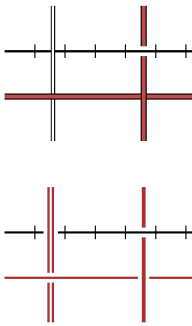
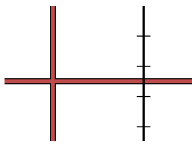
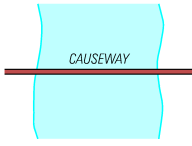
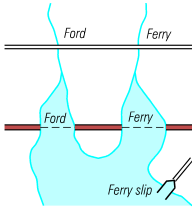
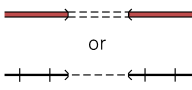
TRANSPORTATION

No.	DESCRIPTION	SYMBOL	REMARKS
501	DIVIDED ROADS WITH MEDIAN OR BARRIER	 or  	<p>Label as necessary for clarity.</p> <p>Applicable to topographical land maps at 1:500,000 scale and larger.</p> <p>Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales and topographical land maps at 1:1,000,000 scale.</p>
502	<p>ALL WEATHER, HARD SURFACE ROADS (TYPE X IN STANAG 2454)</p> <p>Four or more lanes wide (no median or barrier)</p> <p>Two or three lanes wide</p> <p>One lane wide</p>	  	<p>Applicable to 1:250,000 scale and larger.</p> <p>Label as necessary for clarity.</p> <p>See text regarding use of national symbols.</p>
503	<p>ALL WEATHER, LOOSE OR LIGHT SURFACE ROADS (TYPE Y IN STANAG 2454)</p> <p>Two or more lanes wide</p> <p>One lane wide</p>	 	<p>Applicable to 1:250,000 scale and larger.</p> <p>Label as necessary for clarity.</p> <p>See text regarding use of national symbols.</p>
504	FAIR OR DRY WEATHER, LOOSE SURFACE ROADS (TYPE Z IN STANAG 2454)		<p>Applicable to 1:250,000 scale and larger.</p> <p>See text regarding use of national symbols.</p>
505	CART TRACK		<p>Applicable to 1:250,000 scale and larger.</p>
506	TRAIL, FOOTPATH		<p>Applicable to 1:250,000 scale and larger.</p>

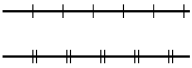
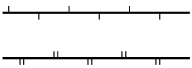
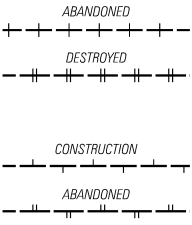
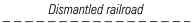

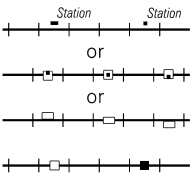
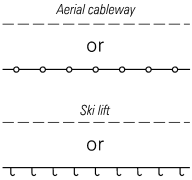
TRANSPORTATION

No.	DESCRIPTION	SYMBOL	REMARKS
507	PRIMARY ROAD		Applicable to 1:500,000 and 1,000,000 scale. Label with number of lanes if more than two.
508	SECONDARY ROAD		Applicable to 1:500,000 and 1,000,000 scale.
509	ROAD (MAINTAINED FOR AUTOMOBILE TRAFFIC)		Applicable to aeronautical charts at 1:2,000,000 scale.
510	ROAD UNDER CONSTRUCTION	 	Label as necessary for clarity. Applicable to 1:250,000 scale and larger. Applicable to aeronautical charts at 1:500,000 scale and smaller. Optional colour is black for aeronautical charts at 1:2,000,000 scale.
511	INTERCHANGE To scale Point symbol	 	Applicable to 1:500,000 scale and larger. Applicable to 1:500,000 and 1:1,000,000 scales.
512	ROUTE MARKER International National (Federal) Secondary (State)	  	Applicable to all scales. When there is a national system of road numbering or marking, the national mapping authority will decide how this information is best shown on the face of the map or chart. Route numbers may be added along road symbols without the use of the route marker symbols.
513	BRIDGE Road		Wingticks may be eliminated if space does not permit their inclusion. Applicable to 1:250,000 scale and larger. Applicable to 1:500,000 scale and smaller.

TRANSPORTATION

No.	DESCRIPTION	SYMBOL	REMARKS
513	BRIDGE (continued) Railroad Footbridge		<p>Applicable to 1:250,000 scale and larger.</p> <p>Applicable to 1:500,000 scale and smaller.</p> <p>Applicable to 1:250,000 scale and larger.</p>
514	OVERPASS AND UNDERPASS		<p>Use symbol 513 as necessary for clarity.</p> <p>Applicable to 1:250,000 scale and larger.</p> <p>Applicable to 1:500,000 scale and smaller.</p>
515	LEVEL / GRADE CROSSING		Applicable to all scales.
516	CAUSEWAY		Applicable to all scales.
517	FERRY, FERRY SLIP, FORD		<p>Applicable to all scales.</p> <p>Label appropriately.</p>
518	TUNNEL		<p>Applicable to all scales.</p> <p>See symbol 110 for aqueduct in tunnel (traversable and non-traversable).</p> <p>Use of pecked (dashed) line is optional.</p>

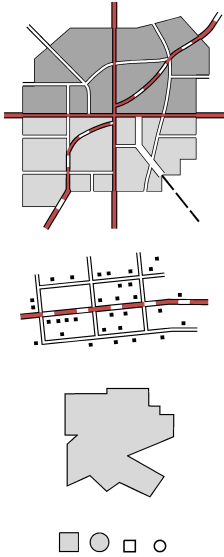



TRANSPORTATION

No.	DESCRIPTION	SYMBOL	REMARKS
519	RAILROAD (NORMAL GAUGE) Single track Multiple track		Applicable to all scales. Show electrified railroad by labeling or unique symbolization explained in the product legend.
520	RAILROAD (NARROW GAUGE) Single track Multiple track		Applicable to 1:250,000 scale and larger. Show electrified railroad by labeling or unique symbolization explained in the product legend.
521	RAILROAD (NON-OPERATING) (abandoned, destroyed, under construction, etc.) Normal gauge Single track Multiple track Narrow gauge Single track Multiple track		Label appropriately. Applicable to all scales. Applicable to 1:250,000 scale and larger.
522	DISMANTLED RAILROAD		Applicable to all scales. Label appropriately.
523	RAILROAD YARD / MARSHALLING YARD		Applicable to all scales. Exact outline, scale permitting. See 902 for optional symbol if 1:500,000 or smaller scale.
524	RAILROAD STATION Location known Location unknown		Applicable to all scales. Label as necessary for clarity.
525	AERIAL CABLEWAY LINES AND SKI LIFT LINES Aerial cableway Ski lift		Applicable to all scales. Label as necessary for clarity. May be used with symbol 720 if linear obstruction.




















TRANSPORTATION

No.	DESCRIPTION	SYMBOL	REMARKS
526	CONVEYOR	<div>Conveyor</div> <div>-----</div>	Applicable to all scales. Label appropriately.
527	PIPELINE (NON-WATER) Surface Elevated Underground	<div>Oil pipeline</div> <div>-----</div> <div>OR</div> <div>-----</div> <div>Elevated pipeline</div> <div>-----</div> <div>Underground gas pipeline</div> <div>-----</div> <div>OR</div> <div>Underground gas pipeline</div> <div>-----</div>	Applicable to all scales. Label with product if known. See symbol 110 for water pipeline.
















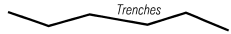
CULTURAL FEATURES

No.	DESCRIPTION	SYMBOL	REMARKS
601	<p>BUILT-UP AREA</p> <p>Tint</p> <p>Dense</p> <p>Sparse to moderate</p> <p>No tint</p> <p>To scale</p> <p>Point symbols</p>		<p>Optional colours are red-brown or yellow. Show area by actual outline where scale and purpose permit and information is available.</p> <p>Type size and/or style should reflect the population size and/or importance of the area being portrayed.</p> <p>Applicable to 1:100,000 scale and larger.</p> <p>Applicable to 1:100,000 scale and larger.</p> <p>Applicable to scales smaller than 1:100,000.</p> <p>Applicable to scales smaller than 1:100,000.</p>
602	<p>BUILDING</p> <p>To scale</p> <p>Point symbol</p> <p>Pictorial symbol</p>		<p>Label as necessary for clarity.</p> <p>Applicable to 1:250,000 scale and larger. Exact outline, scale permitting.</p> <p>Applicable to all scales.</p> <p>Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales.</p>
603	<p>CEMETERY (all religious denominations)</p> <p>To scale</p> <p>Point symbol</p>		<p>See 902 and 903 for optional symbols.</p> <p>Applicable to 1:250,000 scale and larger.</p> <p>Applicable to all scales.</p>
604	<p>CHIMNEY / SMOKESTACK</p> <p>Point symbol</p> <p>Pictorial symbol</p>		<p>See 901 and 902 for optional symbols.</p> <p>Applicable to all scales.</p> <p>Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales.</p>

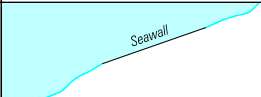
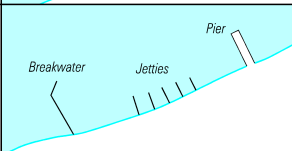
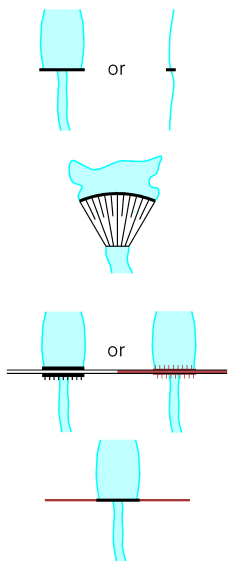
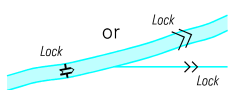
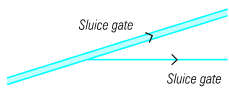
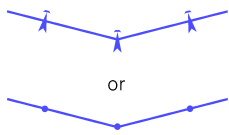
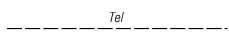
CULTURAL FEATURES

No.	DESCRIPTION	SYMBOL	REMARKS
605	<p>COMMUNICATION TOWER / MAST (LESS THAN OBSTRUCTION HEIGHT)</p> <p>Point symbols</p> <p>Pictorial symbol</p>	 or  	<p>See 901 and 902 for optional symbols. Use symbol 719 if vertical obstruction.</p> <p>Applicable to all scales.</p> <p>Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales.</p>
606	<p>FACTORY / INDUSTRIAL COMPLEX</p> <p>To scale</p> <p>Pictorial symbol</p>	 <i>Factory</i> 	<p>See 903 for optional symbol.</p> <p>Applicable to 1:250,000 scale and larger. Label appropriately.</p> <p>Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales.</p>
607	<p>FORT / CASTLE</p> <p>To scale</p> <p>Point symbols</p> <p>Pictorial symbol</p>	 <i>Fort</i>  or  	<p>See 902 for optional symbol.</p> <p>Applicable to all scales. Label appropriately.</p> <p>Applicable to all scales.</p> <p>Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales.</p>
608	<p>HOSPITAL</p> <p>To scale</p> <p>Point symbol</p>	 or  	<p>Applicable to 1:100,000 scale and larger.</p> <p>Applicable to all scales.</p>
609	<p>HOUSES OF WORSHIP</p> <p>Church</p> <p>Point symbol</p> <p>Pictorial symbol</p> <p>Mosque</p> <p>Synagogue</p> <p>Temple (Buddhist)</p> <p>Temple (Buddhist-Japan)</p> <p>Pagoda</p>	      	<p>See 902 for optional symbol. Applicable to all scales unless otherwise noted.</p> <p>Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales.</p>



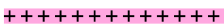




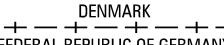


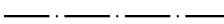
CULTURAL FEATURES

No.	DESCRIPTION	SYMBOL	REMARKS
610	LIGHTHOUSE Point symbol Pictorial symbol	 	See 901 and 902 for optional symbols. Applicable to all scales. Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales.
611	MONUMENT Point symbol Pictorial symbol	 	See 901 and 902 for optional symbols. Applicable to all scales. Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales.
612	RACE TRACK AND STADIUM To scale	 	See 902 for optional symbol. Applicable to all scales. Optional solid fill.
613	RUINS		See 902 for optional symbol. Applicable to all scales. Label appropriately.
614	SCHOOL		See 902 for optional symbol. Applicable to all scales.
615	SUBSTATION / TRANSFORMER YARD		See 902 for optional symbol. Applicable to all scales.
616	TANK		Applicable to all scales. Label with contents of tank if known.
617	WATERMILL		See 901 and 902 for optional symbols. Applicable to all scales.
618	WELL (OIL OR GAS)		Applicable to all scales. Label with type of well if known. See symbol 124 for water well.
619	WINDMILL		See 901 and 902 for optional symbols. Applicable to all scales.
620	WINDMOTOR		See 901 and 902 for optional symbols. Applicable to all scales.
621	PROMINENT FENCE		Applicable to all scales.
622	WALL, TRENCH, TANK TRAP		Applicable to all scales. Label appropriately.

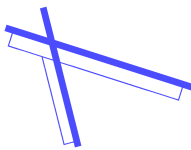










CULTURAL FEATURES

No.	DESCRIPTION	SYMBOL	REMARKS
623	SEAWALL		Applicable to all scales. Label as necessary for clarity.
624	PIER / WHARF / QUAY, BREAKWATER, JETTY		Applicable to all scales. Label appropriately.
625	DAM To scale Dam carrying road		Applicable to all scales. Applicable to 1:250,000 scale and larger. Applicable to 1:250,000 scale and larger. Applicable to 1:500,000 scale and smaller.
626	LOCK		Applicable to all scales. Label as necessary for clarity.
627	SLUICE GATE		Applicable to all scales. Label as necessary for clarity.
628	POWER TRANSMISSION LINE (HIGH TENSION)		Applicable to all scales. May be used with symbol 720 if linear obstruction. Optional colours are black and red.
629	TELEPHONE LINE / TELEGRAPH LINE		Applicable to all scales. Label appropriately.







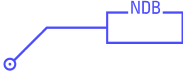






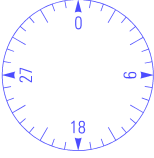
CULTURAL FEATURES

No.	DESCRIPTION	SYMBOL	REMARKS
630	HORIZONTAL CONTROL POINT		Applicable to all scales. Label appropriately.
631	BOUNDARIES BETWEEN STATES (PRIMARY POLITICAL ENTITIES)	<p>International</p>  <p>or</p>  <p>Indefinite</p>  <p>or</p>  <p>Disputed</p>  <p>Other lines of separation (treaty, cease-fire, armistice, claim, mandate/convention, defacto boundary, etc.)</p>  <p>International maritime</p> 	<p>Applicable to all scales. Label appropriately.</p> <p>Overprint is optional but when used the preferred colour is red, other colours are optional.</p> <p>Overprint is optional but when used the preferred colour is red, other colours are optional.</p>
632	INTERNATIONAL DATE LINE	 <p>(Monday) (Sunday)</p>	Applicable to all scales. Label as shown.
633	PRIMARY ADMINISTRATIVE BOUNDARY	 <p>or</p> 	Applicable to all scales. Label appropriately.

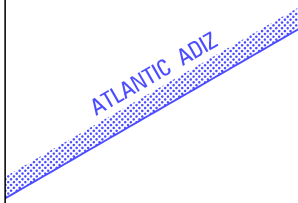
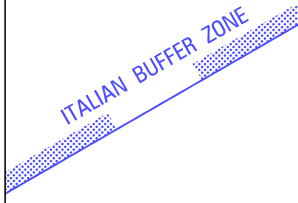
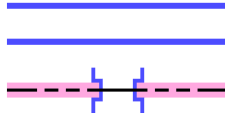
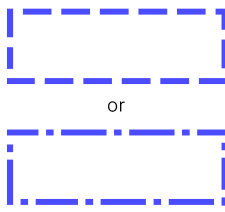

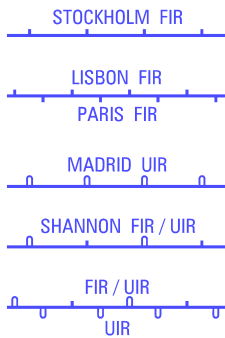
AERONAUTICAL DATA

No.	DESCRIPTION	SYMBOL	REMARKS
	Use either "aeronautical" blue (preferred) or red for all aeronautical symbols.		
701	AIRPORT / AIRFIELD		<p>Closed, disused, or abandoned airports/airfields will be indicated by either adding an appropriate label or by substituting a pecked (dashed), open circle for the solid circle.</p> <p>Label as appropriate with name of airport/airfield, length of longest runway, surface data, and elevation.</p>
	To scale		Applicable to 1:100,000 scale and larger.
	Runway pattern and field limits known		Applicable to 1:250,000 and 1:500,000 scales.
	Major airport/airfield, runway pattern known, field limits unknown		Applicable to aeronautical charts at scales from 1:250,000 to 1:1,000,000.
	Major airport/airfield, runway pattern and field limits unknown		Applicable to aeronautical charts at scales from 1:250,000 to 1:1,000,000.
	Minor airport/airfield		Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales.
	Military		Applicable to aeronautical charts at 1:500,000 scale and smaller.
	Civil		Applicable to aeronautical charts at 1:500,000 scale and smaller.
	Joint civil and military		Applicable to aeronautical charts at 1:500,000 scale and smaller.
	Emergency (no facilities or complete information is not available)		Applicable to aeronautical charts at 1:500,000 scale and smaller.
702	SEAPLANE BASE		
	Military		Applicable to aeronautical charts at 1:500,000 scale and smaller.
	Civil		Applicable to aeronautical charts at 1:500,000 scale and smaller.








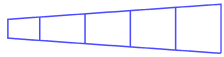



AERONAUTICAL DATA

No.	DESCRIPTION	SYMBOL	REMARKS
702	SEAPLANE BASE (continued) Joint civil and military Sheltered anchorage	 	Applicable to aeronautical charts at 1:500,000 scale and smaller. Applicable to all scales.
703	HELIPORT / HELIPAD Located at a hospital Not located at a hospital	 	Applicable to all scales.
704	RADIO NAVIGATION AIDS Basic symbol Non-directional radio beacon (NDB) VHF omnidirectional radio range (VOR) Distance measuring equipment (DME) Collocated VOR and DME radio navigation aids (VOR / DME) UHF tactical air navigation aid (TACAN) Collocated VOR and TACAN radio navigation aids (VORTAC)	  or  or      	Applicable to aeronautical charts at 1:250,000 scale and smaller. Label symbol with identification box as appropriate.
705	COMPASS ROSE		Applicable to aeronautical charts at 1:250,000 scale and smaller. To be oriented on the chart in accordance with the alignment of the station (normally Magnetic North). Use as appropriate in combination with the following 704 symbols: VOR, VOR / DME, TACAN, and VORTAC.

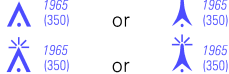
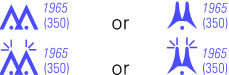
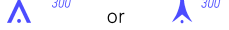

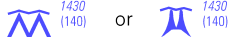

AERONAUTICAL DATA

No.	DESCRIPTION	SYMBOL	REMARKS
706	AIR DEFENSE IDENTIFICATION ZONE (ADIZ)		Applicable to aeronautical charts at 1:250,000 scale and smaller. Label appropriately.
707	BUFFER ZONE		Applicable to aeronautical charts at 1:250,000 scale and smaller. Label appropriately.
708	AIR CORRIDOR (COMPULSORY) Compulsory entry corridor		Applicable to aeronautical charts at 1:250,000 scale and smaller.
709	CONTROL ZONE		Applicable to aeronautical charts at 1:250,000 scale and smaller. Label as necessary for clarity. Show actual outline. Area and boundary fill choices are optional.
710	OCEANIC CONTROL AREA		Applicable to aeronautical charts at 1:500,000 scale and smaller. Label appropriately.
711	FLIGHT INFORMATION REGION AND UPPER INFORMATION REGION		Applicable to aeronautical charts at 1:500,000 scale and smaller. Label appropriately.













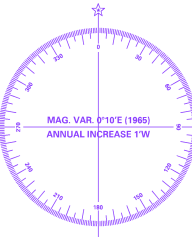
AERONAUTICAL DATA

No.	DESCRIPTION	SYMBOL	REMARKS
712	SUB-FLIGHT INFORMATION REGION		Applicable to aeronautical charts at 1:500,000 scale and smaller. Label appropriately.
713	AIRSPACE RESERVATION (prohibited, restricted, or warning/danger area)	 or  or  or 	Applicable to aeronautical charts at 1:250,000 scale and smaller. Label appropriately with country code, type, and numbers which indicate internationally recognized identification.
714	REPORTING POINT Compulsory Non-compulsory (on request)	 	Applicable to aeronautical charts at 1:500,000 scale and smaller.
715	MILITARY CLIMB CORRIDOR		Applicable to aeronautical charts at 1:500,000 scale and smaller. Label appropriately.
716	AERONAUTICAL GROUND LIGHT		Applicable to aeronautical charts at 1:250,000 scale and smaller. Label with specific characteristics as appropriate.
717	MARINE LIGHT		Applicable to aeronautical charts at 1:250,000 scale and smaller. Label with specific characteristics as appropriate.
718	VISUAL GROUND SIGN		Applicable to aeronautical charts at 1:250,000 scale and smaller.




AERONAUTICAL DATA

No.	DESCRIPTION	SYMBOL	REMARKS
719	<p>VERTICAL OBSTRUCTION</p> <p>Single</p> <p>Unlighted</p> <p>Lighted</p> <p>Group</p> <p>Unlighted</p> <p>Lighted</p> <p>Installation with helicopter platform</p>	  	<p>Applicable to all scales.</p> <p>1965: elevation of obstruction top above mean sea level (AMSL).</p> <p>(350): height of obstruction top above ground level (AGL).</p> <p>300: elevation of obstruction top above mean sea level (AMSL)</p>
720	<p>LINEAR OBSTRUCTION (powerlines, cableways, and other lines with minimum clearance above water surface or ground level)</p> <p>Linear symbol</p> <p>Point symbol</p>	 	<p>Applicable to all scales.</p> <p>Labeling of linear symbol is optional for 1:250,000 scale and larger.</p> <p>Label only highest end point for 1:500,000 scale and smaller.</p> <p>1430: elevation of obstruction top above mean sea level (AMSL).</p> <p>(140): height of obstruction top above ground level (AGL).</p> <p>Use symbol 719 with this symbol if end point is a vertical obstruction.</p> <p>May be used with symbol 525 or 628.</p> <p>Use when scale does not permit linear symbol.</p>
721	MAXIMUM ELEVATION FIGURE	12 ⁵	Applicable to aeronautical charts at scales from 1:250,000 to 1:1,000,000.
722	ISOGONIC LINE	— — 8°W — —	Applicable to aeronautical charts at 1:250,000 scale and smaller. Label appropriately with value.
723	HIGH INTENSITY RADIO TRANSMISSION AREA (HIRTA)		<p>HIRTAs will not be shown on aeronautical charts with scales of 1:500,000 and smaller, until the criteria for selection has been internationally agreed (see STANAG 3412).</p> <p>0.25: influence range in nautical miles of the electromagnetic emission.</p> <p>410: height influence in feet above ground level.</p>

NAUTICAL DATA

No.	DESCRIPTION	SYMBOL	REMARKS
	Member nations will adhere to published International Hydrographic Organization symbols and abbreviations, supplemented by the following (applicable to special naval charts at 1:1,000,000 scale and larger):		
801	NAVAL PORT		
802	PORT, HARBOR		
803	SMALL PORT		
804	LOADING BERTH		
805	LANDING STAGE FOR VEHICLES		
806	LANDING STAGE FOR PASSENGERS		
807	NAUTICAL OBJECT (of importance)		If required, the symbol may be identified by a number keyed to a legend.
808	OTHER OBJECT (of importance)		If required, the symbol may be identified by a number keyed to a legend.
809	WRECK OR OBJECT	 	<p>If required, the symbol may be identified by a number keyed to a legend.</p> <p>Obsolete symbol still appearing on many existing charts.</p>
810	SONAR CONTACT (confirmed)	 or 	If required, the symbol may be identified by a number keyed to a legend.
811	COMPASS ROSE		True north compass with magnetic variation indicated at center.

MISCELLANEOUS CULTURAL FEATURES

No.	DESCRIPTION	SYMBOL	REMARKS
901	LOCATED OBJECT	 <i>Grain storage tower</i>	Applicable to 1:250,000 scale and larger. Label appropriately.
902	LANDMARK FEATURE (NON-CHARACTERISTIC)	 <i>Reservoir</i>	Applicable to 1:500,000 scale and smaller. Label appropriately.
903	AREA DELIMITING LINE	 <i>Oil field</i>	Applicable to all scales. Label appropriately. Exact outline, scale permitting.