



NGA STANDARDIZATION DOCUMENT

DATA PRODUCT SPECIFICATION (DPS)

1:250,000 Scale

Joint Operations Graphic – Ground (JOG-G)

Joint Operations Graphic – Air (JOG-A)

Annotation Catalog (AC)

(2018-08-01)

Version 1.0

Author: NGA/Foundation GEOINT Group
Distribution: Approved for public release; distribution is unlimited.
Usage: This JOG DPS Annotation Catalog, along with the JOG DPS Portrayal Catalog and JOG Data Product Specification, has been approved for use by the NSG Community to produce 1:250,000 Joint Operations Graphics.

Foreword

The purpose of this document is to describe the content and arrangement of a Joint Operation Graphic (JOG) for 1:250,000 scale. A JOG is a hardcopy map characterized by a moderate level of planimetric detail and quantitative representation of relief using elevation contour lines. The various features shown on the map are represented by standard symbols. These symbols are explained in the margin of the map along with other information about the map and its content. JOG content includes symbolization of transportation and cultural features, vertical obstructions, land aerodromes, airspace boundaries, navigational aids, hydrography, hypsography, vegetation, boundaries, and geographic place-names, along with a Military Grid Reference System (MGRS) grid. The Data Product Specification for Joint Operations Graphics consists of three parts:

- **NGA.STND.0071-1_1.0_DPSJOG** - The Joint Operations Graphic Data Product Specification (JOG DPS), which defines the requirements for a Joint Operations Graphic product at 1:250,000 scale.
- **NGA.STND.0071.2_1.0_DPSJOGPC** - The Joint Operations Graphic Data Product Specification Portrayal Catalog (JOG DPS PC), which defines requirements for the portrayal of feature data on Joint Operations Graphics.
- **NGA.STND.0071-3_1.0_DPSJOGAC** - This Joint Operations Graphic Data Product Specification Annotation Catalog (JOG DPS AC), which defines requirements for the portrayal of non-feature (marginalia) data on Joint Operations Graphics.

Note: *All three of the above documents are required to produce a Joint Operations Graphic product.*

Comments, questions, or suggestions to improve this document should be addressed to the National Geospatial-Intelligence Agency, Foundation GEOINT Group, Standards Branch, Mail Stop N22, 7500 GEOINT Drive, Springfield, VA 22150-7500 or e-mail: DataProductSpecs@nga.mil

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1 Overview

This Joint Operations Graphic Annotation Catalog (JOG AC) defines requirements for the portrayal of non-feature data (“metadata”) on a 1:250,000 scale Joint Operations Graphic.

1.1 Annotations within the Cartographic Process

As described in the Joint Operations Graphic Data Product Specification (JOG DPS), section 12, an Annotation is a graphic presentation of map display metadata (“non-feature data”) upon a cartographic product in order to provide necessary context for the display and comprehension of geographic features.

ISO 19117 defines the overall geographic portrayal process by which *features* are associated with *symbols* via the use of *portrayal rules* and *rule sets*. These symbols, rules and rule sets, along with additional process elements such as generalization and finishing rules, are contained in a Portrayal Catalog - here the Joint Operations Graphic Portrayal Catalog (JOG PC).

The concept of an Annotation, as developed by NCGIS, extends the geographic portrayal process defined in ISO 19117. While *features* are associated with *symbols* in a Portrayal Catalog, *metadata* elements (about a data product) are associated with *annotation symbols* by the use of *annotation rules* and *rule sets*. The annotation process thus coexists with the geographic portrayal process within the larger cartographic process (see Figure 1).

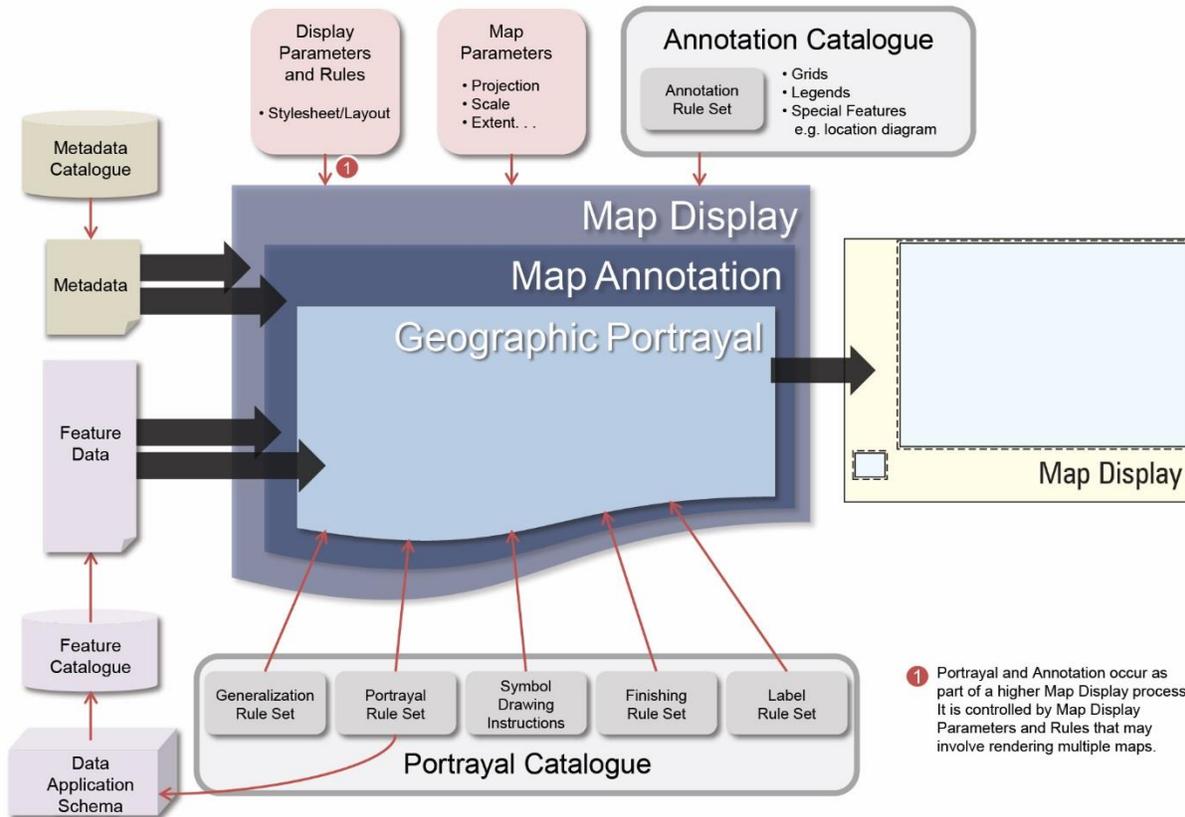


Figure 1. The cartographic process for a complete map display

Annotations take many forms depending on the contextual elements or metadata they communicate, as well as their placement within, and relationship to, the larger Map Display context.

2 Basic principles of annotation

Information is included in the map margin which is necessary for map identification, feature identification, evaluation of map information and its intended purposes, identification of publishing elements, and release-ability restrictions.

2.1 Design and location

The design of margin items and their locations on the sheet shall be graphically illustrated in Annex B - Style Sheets. There are two style sheets and they are organized as follows:

- Annex B.1 – 1:250,000 Scale Joint Operations Graphics Style Sheet, “Arrangement single language”
- Annex B.2 – 1:250,000 Scale Joint Operations Graphics Style Sheet, “Arrangement multi- language”

The two style sheets show the same preferred work limits and paper/trim size. B.1 “Arrangement single language” portrays the normal size and positioning of margin elements without a translation requirement. B.2 “Arrangement multiple languages” portrays the normal size positioning of margin elements with a translation requirement. See JOG DPS, section 7.2.3 for further information.

2.1.1 Repositioning or deleting of elements

When necessary, items of smaller areal extent (for example: users note, miscellaneous notes, producer seal, publication note, etc.) may be repositioned.

When the margin data cannot be effectively repositioned and the interior of the map includes expanses of open water areas, selected margin items (glossary, grid reference box, conversion of elevations scale, etc.) may be positioned therein. Remaining items should then be repositioned in the available margin space.

2.1.2 Font and style information

All margin data shall be shown in Zurich Condensed type. Refer to Annex B - Style Sheets for proper color and specific type size, style and case. Use the style sheet as a guide for any items that do not contain exact type specifications.

2.2 Language

When required by international map standardization agreements or bilateral cooperative mapping arrangements, certain margin items shall be translated. The language or languages to be shown, in addition to English, shall be indicated in supplementary instructions for the project.

See Annex A and Annex B.2 “Arrangement multiple languages” for guidance on items in the margin requiring translation. Additional margin items requiring translation shall be specified in supplemental instructions for the project.

Whereas a Joint Operations Graphic may show a maximum of three languages, glossaries shall be exempt from this rule.

2.2.1 Language presentation sequence

Except for glossaries, the sequence of presentation of the languages shall be governed by the following guidelines:

- On a series of maps which predominantly cover the territory of only one member country of a treaty organization (for example NATO), the native language shall be listed first, followed by English; a third language, if required, shall be listed last.
- The English language shall be listed first in all other circumstances where additional languages are required.

3 Annotation Guidance for Joint Operations Graphics

This section presents guidance for constructing the annotations that are required or optional for NGA Joint Operations Graphics. It is meant to supplement the detailed specifications found in Annexes A and B – Style Sheets.

3.1 Identification Annotations

3.1.1 Map Sheet Name

The name of the map sheet (as defined in the JOG DPS, Section 3.14.2.4) shall be displayed at the lower left of the sheet, centered above the identification box. The country or island group in which the sheet name feature is located shall be shown in conjunction with the sheet name. When the sheet covers more than one country, all country names shall be shown.

3.1.1.1 Presentation of alternate sheet name

An alternate sheet name spelling (provided it appears in the map interior) shall be enclosed in parentheses and located immediately following the sheet name.

3.1.2 Product name and series identification

The product name identification “JOINT OPERATIONS GRAPHIC”, immediately followed by the respective series identification enclosed in parenthesis, i.e. “(GROUND)” or “(AIR)”, shall be centered in the lower margin above the bar scale.

3.1.3 Series, sheet and edition identification box

A sheet identification box (see Figure 2) shall contain the following three items (as defined in the JOG DPS, Section 3.14): “SERIES”, followed by the applicable series identification (1501 for Ground version; 1501-AIR for Air version); “SHEET”, followed by the sheet number; and “EDITION”, followed by the edition designation. The identification box shall be included in the lower left and upper left margin.

SERIES	1501-AIR
SHEET	NG-42-12
EDITION	001-NGA

Figure 2. Sheet identification box

3.1.4 Bar Code Box

The lower right corner of the map display shall contain a bar code box in which are displayed the human-readable and bar code forms of the NATO/National Stock Number (NSN) and Edition Number, as well as the Reference Number (see Figure 3).



Figure 3. Sample NATO/National Stock Number (NSN), Reference Number (RN), Edition Number, and bar codes.

Detailed information and portrayal standards for bar codes can be found in MIL-STD-2414A, “Bar Coding for Geospatial Products”.

3.1.4.1 NATO/National Stock Number

The National Stock Number (NSN) consists of a 13 digit number and is used to uniquely identify the map in the Defense Logistics Information Service (DLIS). For details on the construction of the NSN, see the JOG DPS, Section 3.14.4.

The letters "NSN" are shown in front of the human-readable NATO/National Stock Number to distinguish it from the Reference Number.

3.1.4.2 Reference Number

The Reference Number (RN) consists of an alphanumeric designation not to exceed 15 characters. For details on the construction of the RN, see the JOG DPS, Section 3.14.5.

The abbreviation “REF. NO.” is shown in front of the Reference Number. Hyphens, virgules (dashes), commas and spaces are not shown.

3.1.4.3 Edition Number

The Edition Number shall be presented in bar code and in human-readable form. The human-readable presentation shall consist of a 3-digit number and shall be preceded by the abbreviation “ED. NO.”.

For details on the construction and advancement of the Edition Number, see the JOG DPS, Section 3.14.3.

3.1.5 Producer Seal

The National Geospatial-Intelligence Agency seal shall be shown on maps prepared by or for NGA.

The NGA seal shall be shown on maps prepared by NGA for another agency or country, unless specific directions to the contrary are stated in supplementary instructions for the project. The seal(s) of other agencies, countries, or mapping organizations may also be shown when stated in supplementary instructions for the project.

3.1.6 Publication Annotations

3.1.6.1 Publication note and credit listings

3.1.6.1.1 NGA publications

Each map produced by or for the National Geospatial-Intelligence Agency shall contain the following publication note, to include the production date of the map:

Prepared and published in [YYYY] by the National Geospatial-Intelligence Agency

3.1.6.1.2 Cooperative mapping agreements

When a map is produced under a cooperative mapping agreement, with another agency or country, the note shall be patterned after the following:

Prepared and published in [YYYY] by the National Geospatial-Intelligence Agency
in cooperation with [Country/Agency concerned]

3.1.6.1.3 Other topographic units/cooperating agencies

When specified in supplementary project instructions, credit shall be given to other topographic units and cooperating agencies for their contributions to certain phases of a mapping project. For example:

Prepared and published in [YYYY] by [PRODUCING AGENCY]

3.1.6.2 Users note

Each map shall contain a “users note” that provides information to users on how to contact the map producer for corrections, additions or comments. A sample “users note” may read:

“Users should refer corrections, additions and comments for improving this product to:
<insert contact information here>.”

The contact information for the map producer is subject to change more frequently than this specification; accordingly, the wording of the users note may also be subject to change. Refer to current guidance and/or supplementary project instructions for the text of this note.

3.1.6.3 File preparation note

A note identifying the agency which prepared the production file used to make the map, along with the respective month and year, shall be shown. The note shall be placed at the bottom of the composite geodetic information notes. The file preparation note shall be patterned after the following:

FILE PREPARED BY [PRODUCING AGENCY CODE] [MM-YYYY]

3.1.6.4 Copyright note

A copyright note shall be applied to the map when required by the producing country. The date for the copyright note shall match the year in the Publication note (see section 3.1.6.1). The note shall be placed at the bottom center of the margin directly under the users note. A sample copyright note may read:

©COPYRIGHT [YYYY] BY THE UNITED STATES GOVERNMENT
NO COPYRIGHT CLAIMED UNDER TITLE 17 U.S.C.

3.2 Security Classification Annotation

3.2.1 Classification marking

For maps classified CONFIDENTIAL or higher, the degree of classification of the map (see the JOG DPS section 3.11.1) shall be shown in three locations on the map display:

- In the upper left margin, above or to the right of the sheet identification box;
- In the lower left margin, above or to the right of the sheet identification box;
- In the lower right margin, above the bar code.

3.2.1.1 Downgrading/declassification note

Each map bearing a security classification marking shall also bear a downgrading/declassification note. This shall be shown below the classification marking in the lower left margin.

3.2.1.2 Restricted Dissemination/LIMITED DISTRIBUTION note

If a Restricted Dissemination or LIMITED DISTRIBUTION Note is required on an unclassified map, this note shall be shown instead of the classification marking in the lower left margin.

3.2.1.3 Caveat or Special handling notes

If a Caveat or Special Handling Note applies, this note shall be shown below the classification or restricted dissemination marking in the lower left margin.

3.2.1.4 Classification note printing color

The security classification and restricted dissemination notes are printed in Dk-Brown 202 (“red-brown”).

3.3 Georeferencing Annotations

3.3.1 Geodetic information

NGA.STND.0037_2.0.0_GRIDS may be referenced for more detailed information related to the following items.

3.3.1.1 Geodetic information notes

Identification of the ellipsoid, grid(s), projection, and datums used on the sheet (as specified in the JOG DPS section 5.1) shall be included in a composite geodetic information note in the margin (see Figure 4).

```

ELLIPSOID ..... WORLD GEODETTIC SYSTEM 1984
GRID ..... 10,000 METER UTM ZONE 42
PROJECTION ..... TRANSVERSE MERCATOR
VERTICAL DATUM ..... MEAN SEA LEVEL
HORIZONTAL DATUM ..... WORLD GEODETTIC SYSTEM 1984
  
```

Figure 4. Geodetic information notes.

3.3.1.2 Grid reference box

A grid reference box (see Figure 5) showing the grid zone designation(s) and 100,000m square identifiers specific to the map, as well as how to read and report a 1,000 meter Universal Transverse Mercator (UTM) grid reference, shall be included in the margin.

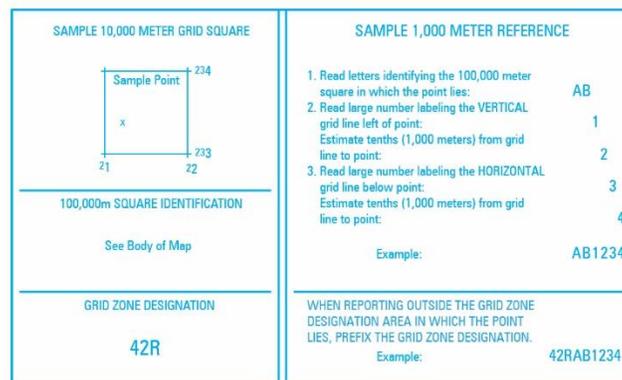


Figure 5. Grid reference box.

3.3.1.3 Graticule and UTM grid values/information

Graticule (projection) lines, ticks and values; UTM grid lines and values; 100,000m square IDs; and grid zone designations (when applicable) shall be portrayed according to Annex B - Style Sheets.

All graticule and grid values along the neatline shall be positioned so that they are centered to the line they are referencing. In cases of overprints, the graticule values take precedence and shall not be moved off of center. Grid values may be moved laterally or vertically in order to avoid overprinting graticule values.

3.3.1.3.1 Graticule information

Full lines of latitude shall be shown at 15 minute intervals between 84 north and south latitudes, ticked at one minute intervals.

Full lines of longitude shall be shown at 15 minute intervals between 76 north and south latitudes. Between 76 and 84 latitude, full lines shall be shown at 30 minute intervals. In both instances, they are ticked at one minute intervals.

One minute graticule ticks shall extend away from the Prime Meridian (Greenwich) and from the Equator on all lines of latitude and longitude, except for 0 and 180 longitude and the Equator. On these lines, they shall extend in both directions. Five minute graticule ticks shall be portrayed longer and shall extend in both directions.

The four corners of the sheet neatline shall be labeled with their respective latitude/longitude degree and minute values. Each 15 minute line shall be labeled with their respective minute values, with full degree and minute values placed on/at even degree lines (see B.1 style sheet).

All graticule lines and values shall print black.

3.3.1.3.2 UTM grid information

The 10,000 meter UTM grid interval shall be portrayed as full lines in both the northing and easting direction. 100,000 meter square identification letters shall be portrayed where a 100,000 meter grid line(s) falls within or along the neatline

Each 10,000 meter grid line shall be labeled (outside the neatline and interior) with their respective truncated values (see B.1 style sheet). A “full value” shall be included for the first northing and easting grid lines in the southwest corner.

All UTM grid lines, values and 100,000 square IDs shall print cyan.

3.3.1.3.3 Grid zone junctions

See Annex B.6 for specific portrayal and labeling requirements of when a grid zone junction is contained within the map extent. Note: for simplicity, the graticule lines, ticks and values are not shown on the sample in Annex B.6.

Grid zone junctions shall be indicated by accentuated lines printed in cyan. Labels identifying the grid zones (“UTM GRID ZONE DESIGNATION”) shall appear on each side of the respective lines if the junction is fully contained within the sheet extent.

When a grid zone junction line is coincident with a neatline, the junction lines shall be omitted and only the identifying label for the zone within the sheet extent shall be labeled (see Annex B.1 style sheet).

Grid values shall appear similar to that described in 3.3.1.3.2 except that “full values” shall label the first grid line in each direction from each corner of the sheet.

All UTM grid lines, values, 100,000 square IDs and grid zone junction information shall print cyan.

3.3.1.4 Magnetic declination and variation notes

3.3.1.4.1 Series 1501 notes

Each 1501 (JOG-Ground) shall include a magnetic declination note. When the declination is constant over the area of the graphic, i.e. there is no variation between the west and east edges, the note shall be patterned after the following:

MAGNETIC DECLINATION FOR 2015 IS 1° (20 MILS)
WESTERLY OVER THE ENTIRE AREA.

When there is a variation between the west and east edges of the graphic, the note shall be patterned after the following:

2015 MAGNETIC DECLINATION FROM TRUE NORTH
VARIES FROM 1 1/2° (30 MILS) WESTERLY FOR THE
CENTER OF THE WEST EDGE TO 2° (40 MILS) WESTERLY
FOR THE CENTER OF THE EAST EDGE.

The notes shall be related to 5-year epochs (example: 2010, 2015, etc.). The declination data shall be expressed to the nearest 1/2°, with mil equivalents to the nearest 10 mils.

3.3.1.4.2 Series 1501A notes

Each 1501A (JOG-Air) shall include a magnetic variation note. When the variation on a graphic is not constant and 2 or more isogonic lines are present, the note shall be patterned after the following:

LINES OF EQUAL MAGNETIC VARIATION FOR 2015
(Annual rate of change 3' decrease)

When the value of the magnetic variation is the same over all areas of the graphic, isogonic lines shall be omitted and a magnetic variation note shall be shown in the margin and patterned after the following:

MAGNETIC VARIATION FOR 2015 IS APPROXIMATELY
1° OVER THE ENTIRE AREA
(Annual rate of change 3' decrease)

The notes and isogonic information shall be related to 5-year epochs (example: 2010, 2015, etc.).

3.3.1.4.3 Magnetic disturbance note

A special note shall be included on either 1501 or 1501A series sheets when unique magnetic conditions exist in local areas of the graphic. Portray the applicable magnetic disturbance notes that are found on WAC and Sectional charts produced by NOS and Canada, or where other sources can be found.

Magnetic disturbance information shall be related to 5-year epochs (example: 2010, 2015, etc.).

3.3.2 Scale note and bar scale

3.3.2.1 Scale note

The scale note is a representative fraction which gives the ratio of a map distance to the corresponding distance on the Earth's surface. The scale of 1:250,000 indicates that one unit of measure on the map equals 250,000 units of the same measure on the ground. The scale note shall be displayed in the lower margin twice: centered above the standard bar scales (see Figure 6. Scale note and representative bar scales.); centered above the sheet name in the lower left.

3.3.2.2 Bar scale

Bar scales are graphic expressions of the map scale which provide means for making measurements. A combination of three bar scales, consisting of kilometers, statute miles and nautical miles units of measure, shall be established with the zero points of the bar scales vertically aligned. The bar scales shall be displayed in the lower margin, centered beneath the scale note, as shown in Figure 6.

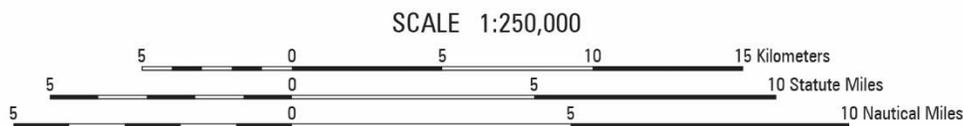


Figure 6. Scale note and representative bar scales.

3.3.2.3 Scale verification note

The following note, which provides an exact measurement that can be used to verify proper plotting or printing scale of the map (1:250,000), shall be placed, in an outline box, near the bar scale:

TO ENSURE THAT THIS MAP WAS PRINTED AT THE CORRECT
SCALE, 100,000 METERS (10 UTM GRID SQUARES) SHOULD
MEASURE EXACTLY 40 CENTIMETERS (15.75 INCHES) IN
BOTH THE HORIZONTAL AND VERTICAL DIMENSIONS.

3.3.3 Elevation reference annotations

All units of measure contained in elevation references and notes shall be tailored to the applicable map series, i.e. meters for 1501 (JOG-Ground) and feet for 1501A (JOG-Air). The examples below show samples for both units of measure where applicable.

3.3.3.1 Unit of elevation notes

The unit of elevation note shall give the unit of vertical measure for the sheet and shall read:

ELEVATIONS IN METERS

ELEVATIONS IN FEET

The unit of elevation notes shall be displayed twice in the lower margin of the map just below the south neatline.

3.3.3.2 Elevation contour information notes

An elevation contour information note shall give the elevation difference between successive intermediate elevation contour lines. The note shall further indicate, when applicable, the use of supplementary (auxiliary) elevation contours and combinations thereof.

The elevation contour information note shall be displayed in the lower margin of the map display, centered under the bar scales.

Examples of various conditions and the appropriate notes are given below:

3.3.3.2.1 Intermediate elevation contour interval note

The elevation contour interval note for the intermediate elevation contours shall be patterned after the following:

CONTOUR INTERVAL 100 METERS

CONTOUR INTERVAL APPROXIMATELY 330 FEET

3.3.3.2.2 Supplementary (auxiliary) elevation contour interval note

When a sheet contains one-half supplementary (auxiliary) elevation contours, the interval notes shall be patterned after the following:

CONTOUR INTERVAL 100 METERS
SUPPLEMENTARY CONTOURS 50 METERS

CONTOUR INTERVAL APPROXIMATELY 330 FEET
SUPPLEMENTARY CONTOURS APPROXIMATELY 165 FEET

When a sheet contains one-half and one-quarter supplementary (auxiliary) elevation contours, the interval notes shall be patterned after the following:

CONTOUR INTERVAL 100 METERS
SUPPLEMENTARY CONTOURS AT 50 AND 25 METERS

CONTOUR INTERVAL APPROXIMATELY 330 FEET
SUPPLEMENTARY CONTOURS AT APPROXIMATELY 165 AND 85 FEET

3.3.3.2.3 Maximum elevation note

When no elevation contours fall on a sheet because the highest elevation is lower than the elevation contour interval specified for the sheet, a maximum elevation note shall be shown in lieu of the elevation contour interval note (while matching the type specifications) and patterned after the following (while matching the type specifications):

MAXIMUM ELEVATION 18 METERS

MAXIMUM ELEVATION APPROXIMATELY 60 FEET

3.3.3.2.4 Range of elevations within contour interval note

When no elevation contours fall on a sheet because the range of elevations is within the elevation contour interval, the value of the elevation contours between which the elevations of the sheet falls shall be included in a note. The note shall be shown in lieu of the elevation contour interval note (while matching the type specifications) and be patterned after the following:

THE TERRAIN ON THIS MAP IS BETWEEN 100 AND 125 METERS ABOVE MEAN SEA LEVEL

THE TERRAIN ON THIS MAP IS BETWEEN APPROXIMATELY 330 AND 415 FEET ABOVE MEAN SEA LEVEL

3.3.3.3 Conversion of elevations scale

A meters-feet (1501) or feet-meters (1501A) conversion scale shall be included in the margin. This scale is designed to permit the conversion of intermediate values by interpolation. The complete scales shall be shown as indicated in Figure 7.

1501 JOG-GROUND

CONVERSION OF ELEVATIONS
(1 meter = 3.2808 feet)

METERS	FEET	METERS	FEET
900	2953	10000	32808
800	2625	9000	29528
700	2297	8000	26247
600	1969	7000	22966
500	1640	6000	19685
400	1312	5000	16404
300	984	4000	13123
200	656	3000	9842
100	328	2000	6562
50	164	1000	3281
0	0	900	2953

1501A JOG-AIR

CONVERSION OF ELEVATIONS
(1 foot = 0.3048 meters)

FEET	METERS	FEET	METERS
1500	457	30000	9144
1000	305	20000	6096
900	274	15000	4572
800	244	10000	3048
700	213	9000	2743
600	183	8000	2438
500	152	7000	2134
400	122	6000	1829
300	91	5000	1524
200	61	4000	1219
100	31	3000	914
50	15	2000	610
0	0	1500	457

Figure 7. Conversion of elevations scale.

3.3.3.4 Elevation tint legend – 1501A only

Each JOG-Air shall contain a legend which illustrates and defines the various hypsometric tints representing bands of elevation that may appear on the graphic (see Figure 8). The legend of elevation tints may contain all 6 bands, even though not all of them are contained in the interior of the map.

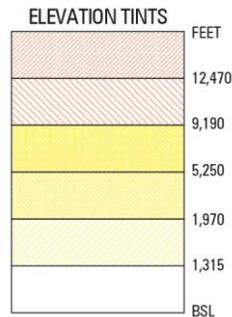


Figure 8. Elevation tint legend.

3.3.4 Location diagram

Each JOG shall contain a location diagram to illustrate the adjoining sheets, boundary information, major hydrography, and sheet lines of Operational Navigation Charts (ONC) and World Area Code (WAC) surrounding the sheet under consideration. It shall also be “projected” to match the main map projection.

3.3.4.1 Sheet portrayal and arrangement

The basic diagram (see Figure 9) shall represent adjoining sheets as 5 rectangles by 5 rectangles (with sheet numbers) that surround the subject sheet representation, with two sheets included in each direction. The diagram normally consists of 25 rectangles, but the number may vary with the arrangement of the applicable adjoining sheets.

The location diagram outline shall normally be symmetrical and portray the sheet under consideration as always being the center rectangle in the basic 5 x 5 sheet grid. The sheet under consideration shall be accentuated by a heavy line; all other sheet representations shall be shown by uniformly lighter lines.

The overall limits of the location diagram should be based on the dimensions of the sheet under consideration. For example, if the “parent” sheet is covered by a 1 degree by 1.5 degree scheme, then the location diagram shall be 5 degrees by 7.5 degrees; if the parent sheet is covered by a 1 degree by 2 degree scheme (i.e., domestic U.S. JOG), then the location diagram shall be 5 degrees by 10 degrees.

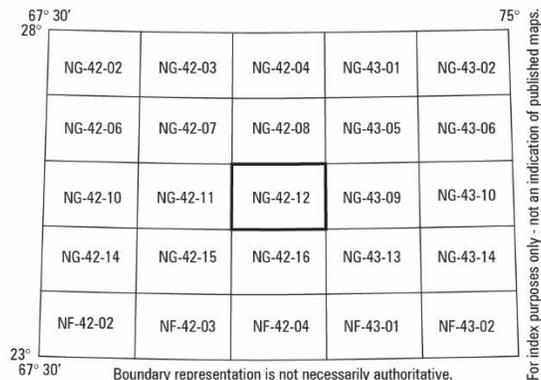


Figure 9. Sample of basic JOG location diagram (including notes).

3.3.4.2 Geographic coordinates

The location diagram shall be labeled with geographic coordinates (see Figure 9). For a symmetrical diagram, values shall be shown at the corners of the north and the west edges of the diagram. For a nonsymmetrical diagram, sufficient values shall be added at all edges of the diagram to provide a geographic orientation of all represented sheets.

3.3.4.3 Depiction of ONC and WAC index

The incidence of the sheet lines of Operational Navigation Charts (ONC) and World Area Code (WAC) shall be portrayed within the location diagram (see Figure 10). The sheets shall be identified with their respective sheet number(s) and labeled as shown in Figure 10. The ONC index shall be portrayed in Cyan; the WAC index shall be portrayed in Dk-Brown 202 (also noted above the diagram). When ONC or WAC sheet lines are coincident with each other and/or JOG sheet lines, the ONC and WAC sheet lines shall be offset to either side of the JOG sheet lines so that they do not overprint.

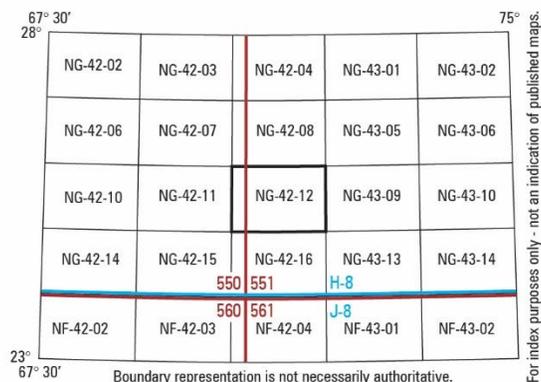


Figure 10. Sample JOG location diagram with ONC and WAC index.

3.3.4.4 Depiction of boundaries and names

3.3.4.4.1 Administrative boundaries

Administrative (international and equivalent) boundaries shall be included in the location diagram (see Figure 11). Country names shall be shown centered within the areas defined and aligned parallel to the bottom work limits. Boundary symbols and sheet lines should be broken to avoid conflict with country names, sheet numbers or WAC/ONC identifications. If there are no administrative boundaries within the location diagram, the country name of the respective sheet shall not be shown. See Annex B - Style Sheets for specifications of boundaries diagram items.

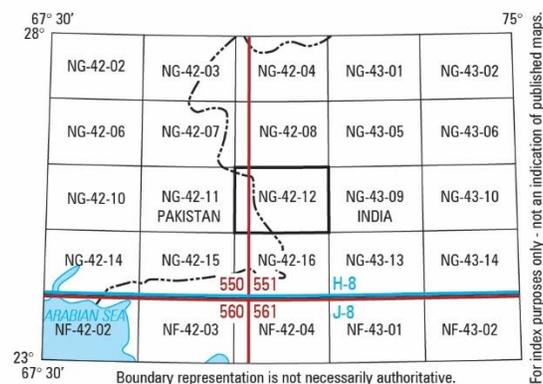


Figure 11. Sample JOG location diagram with hydrography and administrative boundary.

3.3.4.4.2 Other lines of separation

In certain areas, information concerning other lines of separation, etc., may be included in the diagram. When required, the boundaries data and descriptive type shall be portrayed in Dk-Brown 202 ("red-brown"); related notes may be positioned to the right of the location diagram and are printed in Dk-Brown 202. The appropriate boundaries, their labels, and related notes to be used shall be specified in supplementary instructions for the project.

3.3.4.4.3 Boundary disclaimer note

A boundary disclaimer note shall also be included below the diagram (see also section 3.4.1.1).

3.3.4.5 Depiction of hydrography and islands

Tidal water bodies, major rivers, major inland water bodies and islands shall be represented in the diagram (see Figure 11). The prime consideration for including these features is the value they afford for the relative geographic location of the sheets. Because of the small scale of the diagram, delineations of the features shall be generalized. When a river plots 0.5 mm or wider at the scale of the diagram, it shall be

shown with a surface river symbol. Islands that plot less than 0.5 mm wide at the scale of the diagram should not be shown unless they are the primary object of land contained on the sheet, whereby they may be exaggerated.

All hydrologic persistence attribution [ZIO24_HYP] and land water boundary symbolization of the main map's hydrography shall be represented in the guide. Features such as salt flats, sabkhas, land subject to inundation, glaciers, snow/ice fields, etc. shall not be portrayed in the diagram.

Space permitting, the names of major rivers and major bodies of water shall be shown to aid the map user in locating the geographical region portrayed (excluding those features that are already named within the map interior).

3.3.4.6 Irregular shaped or displaced sheets

3.3.4.6.1 Irregular shaped sheets

If a sheet is irregular in shape, e.g. includes a bump out, extension, portrait orientation, etc., it shall be represented in the diagram accordingly (see Figure 12). Irregular shaped sheets which extend beyond the basic location diagram outline may be cut off at the edges of the diagram.

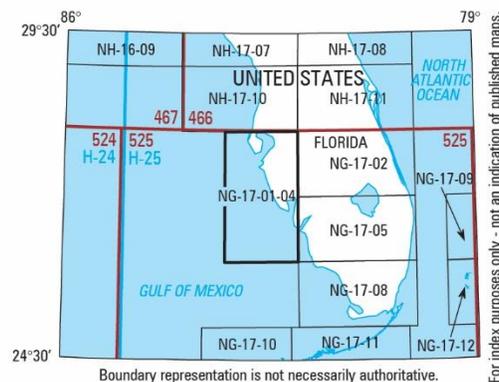


Figure 12. Sample JOG location diagram with portrait orientation.

3.3.4.6.2 Displaced sheets

If a sheet is displaced from its normal position (to include an island or group of islands), it shall be represented in the diagram accordingly (see Figure 13). If a displaced sheet occurs within the area of the standard 25-sheet diagram, the entire sheet shall be represented. Sheets which are offset from the standard JOG geographic limits, and fall outside the basic diagram outline, may be cut off at the edges of the diagram. Partial sheets shall still be labeled as feasible. Sheets which do not contain a land area shall not be represented in open water areas.

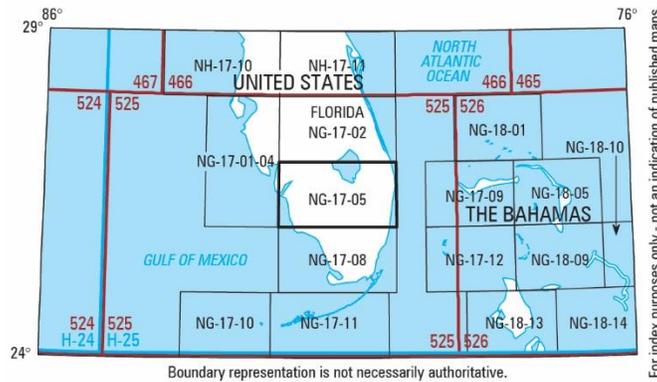


Figure 13. Sample JOG location diagram with irregular and displaced sheet limits.

3.3.4.7 Expurgated areas and sheets in diagram

An example of a location diagram containing expurgated areas and sheets is shown in Figure 14. Sheet lines and sheet number(s) for sheets completely within an expurgated area shall not be shown. The name(s) of the expurgated countries shall be shown, along with the outer limit line (non-dashed) of a standard location diagram. Tidal water and the shoreline between tidal water areas and the expurgated land area shall be shown.

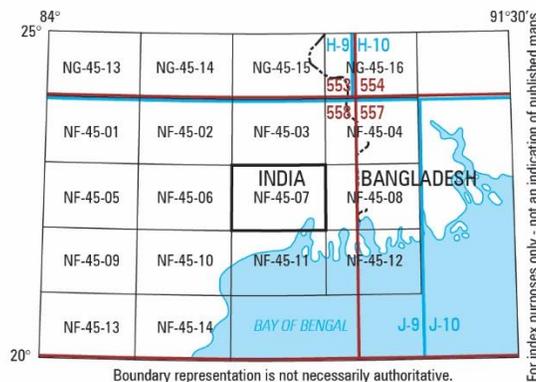


Figure 14. Sample JOG location diagram with expurgated areas and sheets.

3.3.4.8 “For index purposes only” note

The note "For index purposes only - not necessarily an indication of published maps." shall be placed vertically along the right side of the location diagram (see Figure 9).

3.4 Data Quality Annotations

3.4.1 Disclaimer notes

3.4.1.1 Boundary disclaimer note

The following note shall be placed below the Location Diagram (see Figure 9) and shall also be included in the “NOTES” section (see 3.7.3) of a sheet that contains any/all types of administrative boundaries and administrative divisions:

Boundary representation is not necessarily authoritative.

This note shall not be included on those sheets wholly contained within the United States.

3.4.1.2 Names disclaimer notes

The following note shall be included in the “NOTES” section (see 3.7.3) of a sheet that contains names that do not necessarily reflect the officially recognized political status or sovereignty of the areas concerned:

Geographic names or their spelling do not necessarily reflect recognition of the political status of an area by the United States Government.

The following note shall be included in the “NOTES” section of a sheet that contains names that may not conform to this product specification or geographic name organizations. For example:

Proper names on this map may not conform to product specifications or U.S. Board on Geographic Names standards.

The requirement for these notes shall be indicated in supplementary instructions for the project.

3.4.2 Currency notes

Currency notes are statements that aid the map user in evaluating the currency of the sources or data used to prepare the map. The notes shall be shown immediately below the publication note.

3.4.2.1 Standard currency note

The standard currency note for JOG’s shall be shown as follows:

MAP INFORMATION AS OF [YYYY]

3.4.2.1.1 Currency note date

The year [YYYY] shown in the currency note shall refer to the significant date of the source data used to produce the map.

Typically, the date of the imagery used in the extraction of the feature data portrayed on the map shall be the significant date shown in the note. If there are multiple years of imagery, the range of dates shall be used in the note. For example:

MAP INFORMATION AS OF 2011-2013

If non-imagery source data was used (i.e. commodity data, native map source, etc.), the date(s) of that source shall be the significant date shown in the note.

3.4.2.2 Limited updates currency note

If a revision of a map was accomplished for a limited number of features/information, the standard currency note is expanded to identify the significant date of the source used in the update. For example:

MAP INFORMATION AS OF 2010 WITH LIMITED UPDATES AS OF 2014

3.4.2.3 International boundary currency note

If a non-US international Administrative Boundary appears in the map interior, a currency note shall be shown indicating the year the boundary data was reviewed and verified. For example:

INTERNATIONAL BOUNDARIES AS OF [YYYY]

3.5 Symbol legend

3.5.1 Overview

The symbol legend defines and illustrates features represented on a map. A typical legend should include the basic themes of: populated places, roads, railways, boundaries, cultural features, vertical obstructions, aeronautical features, hydrographic features, coastal hydrographic features, vegetation features and hypsographic features. Space permitting, all symbols on the map that require explanation shall be shown in the legend. The symbol legend shall be displayed in the left-hand margin of the JOG map display.

3.5.2 Standard legends

3.5.2.1 JOG-Air legend

Annex B – Style Sheets, section B.3 should be used for the design and composition of a standard symbol legend for a 1501A (JOG-Air) sheet. This standard legend contains most of the common JOG symbols needing explanation - to include JOG-A specific aeronautical features.

3.5.2.2 JOG-Ground legend

Annex B – Style Sheets, section B.4 should be used for the design and composition of a standard symbol legend for a 1501 (JOG-Ground) sheet. This standard legend contains most of the common JOG symbols needing explanation – excluding those JOG-A specific aeronautical features.

3.5.2.3 Standard legend for a geographical area of sheets

For map projects consisting of a group of maps of a particular geographical area, a standard legend may be used for all of the sheets. All the symbols included on the standard legend may not appear on each sheet; however these symbols are not deleted unless space is needed for modifying the legend or margin.

Arid, frozen and coastal region symbol subsets are also included in sections B.3/B.4 and should be inserted into the standard legend as appropriate.

3.5.2.4 Additions to standard legend

The standard legend may be modified on a sheet-by-sheet basis as necessary to incorporate any additional symbols appearing on the map that require explanation.

3.5.2.5 Labeling in lieu of legend symbol

If a feature, not included in the standard legend, appears only once or a few times and is symbolized by a unique symbol, it may be labeled in the map interior rather than added to the legend.

3.5.3 Highest spot elevation in legend

The value shown in the Legend for the "HIGHEST KNOWN elevation" shall be tailored to the actual maximum elevation value contained within the geographic extent of the respective map sheet. The highest elevation value may be "land" (black) or "snow, ice" (cyan). Its location, using geographic and grid coordinates, shall be also be included.

3.5.4 Translation of symbol legend

When required, the terminology of a legend shall be expressed in other languages in addition to English.

3.6 Glossary

Glossaries shall be prepared for maps that contain foreign generic terms and related foreign language terminology. They may also contain definitions of abbreviations for generic descriptive terms used on the map (see also JOG PC 3.3.7).

3.6.1 Standard glossary

For map projects consisting of a series or group of maps of a particular geographical area, a standard glossary may be used for all of the sheets. All of the foreign generic terms included in the standard glossary need not appear on each sheet. Foreign generic terms shall not be deleted unless space is needed for modifying the glossary or margin.

3.6.1.1 False generic terms

Care shall be taken to not include in the glossary false generic terms (pseudo generics), which are misleading to the map reader. A false generic term is that part of a toponym that has lost its original meaning and no longer expresses the nature of the feature it names. Examples of false generic terms in American toponyms are as follows:

"Fort" in Fort Worth (city)

"River" in Fall River (city)

"Vineyard" in Martha's Vineyard (island)

"Forest" in Wake Forest (city)

3.6.1.2 Translation principles

Glossary translations need not be literal or linguistically reliable. Its purpose is to identify features on the map for the map user. Therefore, deviations may be made from dictionary translations, when required, to bring the tailored glossary into accord with map conditions.

3.6.1.3 Natural linear drainage features

In identifying all natural linear drainage features that are characterized by running water, the general term "river" shall be used, and translations such as "stream", "brook", "creek", "run", "rill", and so forth shall be avoided. This helps to unify glossary translations from the various foreign languages and to standardize usage. The same principles shall be applied to all other translations where a single general term can be used rather than numerous words that exhibit minor semantic differences or local linguistic peculiarities.

3.6.1.4 Polysemantics

In the treating of polysemantics (words that have more than one meaning), only the specific definition or definitions that apply to the features depicted on the map shall be shown on the glossary. For example, the Spanish term "arroyo" refers to both streams and ravines, but if the map in question shows only ravines, then that shall be the sole translation that is to appear in the glossary.

3.6.2 Foreign generic terms

Foreign generic terms shall be listed alphabetically in the glossary according to English rules, regardless of the language. The initial letter of a foreign generic term shall always be shown with a capital letter. However, it may be shown with a lower case letter if the term is used as a hyphenated suffix (see Figure 18). When the term in the interior appears in all capitals, it shall be shown in the glossary in mixed case. All variations of a term which appear in the map shall be listed.

3.6.3 Limited glossary space

When translation to English-only is required and available space in the map margin is a critical factor, terms which occur least may be translated in the interior of the map. The translations shall be positioned immediately below or alongside the native term; they shall be enclosed in parentheses and shown in lower case descriptive type. This practice is permissible until the number of terms remaining can be accommodated in the margin.

3.6.4 Multiple translations

When other translations in addition to English are required, all terms, regardless of the frequency with which they appear on the map, shall be listed in the glossary. If space in the map margin becomes a factor, the provisions of 3.6.3 apply.

3.6.5 Arrangement of generic terms

The generic terms within the glossary shall be arranged as follows:

3.6.5.1 Glossaries with one foreign language

The foreign generic terms appearing in the map interior shall be arranged alphabetically and shown as the first column (Figure 15).

Akna	mine shaft
Banya	mine
Berc	peak
Domb	hill
Erdo	forest
Hegy	mountain
Hora	mountain
Menedekhaz	inn
Myslivna	hunting lodge
Oldal	slope
Orhaz	peak
Orom	river
Pusta, puszta	estate
Taro	mine shaft
Tele	settlement

Figure 15. Glossary with foreign generic terms.

3.6.5.2 Glossaries with multiple foreign languages

When more than one foreign language appears in the map interior, the generic terms shall be arranged alphabetically in the same column and shown as the first column (Figure 16).

Alomas	railroad station
Dolina	valley
Domb	hill
Dvce	estate
Erdo	forest
Forras	spring
Hegy	mountain
Hora	mountain
Kut	well
Major	estate
Megallo	railroad stop
Patak, potok	river
Pusta, puszta	estate

Figure 16. Glossary with multiple foreign language generic terms.

3.6.5.3 Glossaries for multilingual margins

For multilingual margins which include a foreign language(s) (see Figure 17) which does not appear in the map interior, the generic terms of that language(s) shall be shown to the right of their English equivalents.

Berg, bergl	.....	mountain	.....	Berg	.....	monte
Doline	.....	valley	.....	Tal	.....	valle
Dvar	.....	estate	.....	Gut	.....	proprieta
Erad	.....	forest	.....	Wald	.....	basco
Hajovna	.....	foresters lodge	.....	Foresters	.....	casa forestale
Hora	.....	mountain	.....	Berg	.....	monte
Hostinec	.....	inn	.....	Wirtshaus	.....	osteria
Kmyba	.....	hut	.....	Hutte	.....	capanna
Les	.....	forest	.....	Wald	.....	bosco
Lnky	.....	meadows	.....	Wiesen	.....	prati
Patak	.....	river	.....	Bach	.....	rio
Ruine	.....	ruins	.....	Ruine	.....	ruinic
Schloss	.....	castle	.....	Schloss	.....	castello
Vrch	.....	peak	.....	Berggipfel	.....	picco
Wald	.....	forest	.....	Wald	.....	bosco
Wiese	.....	meadow	.....	Wiese	.....	prato

Figure 17. Glossary for multilingual margins.

3.6.5.4 Glossaries with foreign characters

When project specifications require the use of foreign characters (see Figure 18) in addition to the Romanized terms, generic terms shall be treated as previously stated. Descriptive terms used in the map interior and their corresponding characters shall be listed alphabetically following the generic forms in the map glossary. Multiple cognate terms (-xxx) that share a common meaning, but are spelled differently in the Romanized text, may be listed on the same line in the glossary.

-bong	.....	peak	-ho	.....	lake, pond
-chae-jae	.....	pass	-ji	.....	lake, pond, reservoir
-ch on	.....	river	-kagae	.....	pass
-dong tong	.....	settlement	-li, mi, ri	.....	settlement
-gang	.....	river	-ryong	.....	pass
-gol, -kol	.....	settlement	-san	.....	hill, mountain

caves	.....	굴
destroyed	.....	파괴
ford	.....	어울목
wood	.....	목교

Figure 18. Glossary with foreign characters.

3.6.5.5 Glossaries with variants of generic terms

When there are two or more variants of the same generic term (including abbreviations), that mean the same thing and begin with the same letter, the terms may be shown on a single glossary line (see Figure 19).

Cila, Cuchilla	.....	ridge
Darah, Darreh	.....	valley
Koh, Kowh, Kuh	.....	mountain
Potay, Powtay	.....	hill
Q, Qda, Quebrada	.....	river

Figure 19. Glossary with variants of generic terms.

3.6.5.6 Glossaries with variants of translations

When a single generic term has more than one meaning as applied to the map or series of maps, the terms may be shown on a single glossary line (see Figure 20).

Bagh	garden, orchard
Kamar	cliff, ridge, slope
Loma	hill, mountain
Nahr	canal, ditch

Figure 20. Glossary with variants of translations.

Combinations of the examples in Figure 19 and Figure 20 may also be applied. For example:

Nawar, Nawer, Nawor.....lake, reservoir

3.7 Miscellaneous notes

A miscellaneous note provides any information which relates specifically to the mapped area and has a bearing on the operational usefulness of the map. These notes shall be grouped together in the “NOTES” section of the margin and shall be stated as briefly as clarity permits. All notes print black except those referring to vertical obstructions. Vertical obstruction notes print Blue072 (aero blue). The standard notes shall be shown on all sheets, preferably in the order shown below and on the style sheets, followed by the applicable common and less common notes.

The values and units of measure for elevation figures shall be adjusted accordingly (meters for 1501; feet for 1501A).

3.7.1 Standard notes

Each map margin shall include the following standard notes regardless of the presence or absence of the feature in the map face:

Caution: Not all communication and power distribution lines are shown.

Power transmission cables (powerlines) are shown except within populated place tints. Other obstructions are shown if they are 46 meters above ground level. See caution note.

[Change height to “150 feet” on 1501A sheets]

Multiple vertical obstruction symbols are shown when there are two or more vertical obstructions within 1,400 meters (0.75 nautical miles) of each other or when vertical obstruction symbols overlap.

A lane on this graphic is considered to be 2.5 meters (8.2 feet) wide.

Road classification should be referred to with caution.

Only through routes are classified in built-up areas.

3.7.2 Common notes

The following common notes shall be shown on all sheets except as indicated under each note.

Boundary representation is not necessarily authoritative.

[Not shown on sheets that contain no administrative boundaries or divisions; not shown on sheets wholly contained in the U.S]

The normal (predominant) railway gauge is [0.00] meters [(0'00")].

[Not shown on sheets in countries with no known Railways]

Not to be used for surface or subsurface maritime navigation.

[Shown on sheets containing Tidal Water]

3.7.3 Less common notes

Pertinent special notes should be included based on data content conditions and may also be specified in supplementary instructions for the project. Examples of less common notes that may be included if applicable (for a given sheet or project):

Caution: Within large Built-up Areas, only the highest vertical obstruction per one quarter UTM grid square (20 square mm) is portrayed.

[Shown on sheets containing one or more large cities with a dense concentration of vertical obstructions]

Caution: There are numerous vertical obstruction wind turbines within labeled wind farm outlines.

[Shown on sheets containing vertical obstruction wind farms]

Caution: Cable/Cableway pylons, indicated by an unlabeled vertical obstruction symbol, range from [XXX] to [XXX] meters in height above mean sea level and [XXX] to [XXX] meters above ground level over the entire sheet.

[Shown on sheets containing cable/cableway pylons \geq 46 meters (150 feet) with variable heights above ground level; replace "meters" with "feet" for 1501A sheets]

Caution: Cable/Cableway pylons, indicated by an unlabeled vertical obstruction symbol, range from [XXX] to [XXX] meters in height above mean sea level and [XXX] meters above ground level over the entire sheet.

[Shown on sheets containing cable/cableway pylons \geq 46 meters (150 feet) with non-variable heights above ground level; replace "meters" with "feet" for 1501A sheets]

Caution: Cable/Cableway lines, indicated by an unlabeled vertical obstruction symbol, range from [XXX] to [XXX] meters in height above mean sea level and [XXX] to [XXX] meters above ground level over the entire sheet.

[Shown on sheets containing cable/cableway sections \geq 46 meters (150 feet) with variable heights above ground level; replace "meters" with "feet" for 1501A sheets]

Caution: Cable/Cableway lines, indicated by an unlabeled vertical obstruction symbol, range from [XXX] to [XXX] meters in height above mean sea level and [XXX] meters above ground level over the entire sheet.

[Shown on sheets containing cable/cableway sections \geq 46 meters (150 feet) with non-variable heights above ground level; replace "meters" with "feet" for 1501A sheets]

The normal (predominant) railway gauge in [Country or Area] is [0.00] meters [(0' 0")].

The normal (predominant) railway gauge in [Country or Area] is [0.00] meters [(0' 0")].

[Shown on sheets containing more than one normal Railway gauge; replaces the common railway gauge note]

Narrow gauge railways on this map are [0.00] meters [(0' 0")].

[Shown on sheets containing unlabeled narrow gauge Railways with a single narrow Railway gauge in a country or area where the normal Railway gauge is not narrow gauge]

Narrow gauge railways in [Country or Area] are [0.00] meters [(0' 0")].

Narrow gauge railways in [Country or Area] are [0.00] meters [(0' 0")].

[Shown on sheets containing unlabeled narrow gauge Railways with a single narrow Railway gauge in each country or area where the normal Railway gauge is not narrow gauge]

Elevation data within extraction mines and sand dune areas is subject to change and should be referred to with caution.

[Shown on sheets containing Extraction Mines and/or Sand Dunes]

Rice paddies are subject to inundation; however, they may be seasonally dry.

[Shown on sheets containing Rice]

The number in parentheses, "(1)", following a populated place name indicates more than one place is so named on this map.

[Shown on sheets where the same populated place name is used more than once]

Names for symbolized populated places are omitted where information is not available or where density of detail does not permit their inclusion.

[Shown on sheets where place names are not available or not shown due to their density being too great]

Geographic names or their spelling do not necessarily reflect recognition of the political status of an area by the United States Government.

[Shown only when indicated in project instructions, see section 3.4.1.2]

Proper names on this map may not conform to product specifications or U.S. Board on Geographic Names standards.

[Shown only when indicated in project instructions, see section 3.4.1.2]

3.8 Aeronautical information notes

3.8.1 Air information currency note box - 1501A only

An air information currency note shall be included in a margin box on each 1501A (JOG-Air) sheet (see Figure 21). The note provides the effective calendar date of information and refers the user to the Notices to Airmen (NOTAMS) and other sources for any updated information.

The air information currency date shall reflect the oldest retrieval date from the AAFIF, FLIP or DAFIF (unless a later date source/chart includes all air information on the sheet). For example, if the retrieval date is reflected by a range of days (i.e. 28 days with DAFIF), then the beginning (older) date shall be used in this note. The date should also be within six months of the file preparation date. The air currency date shall not be abbreviated and is patterned after the following: 29 APRIL 2016.

For co-production, an additional sentence may be added to the note to include the national air information sources (see Figure 21).

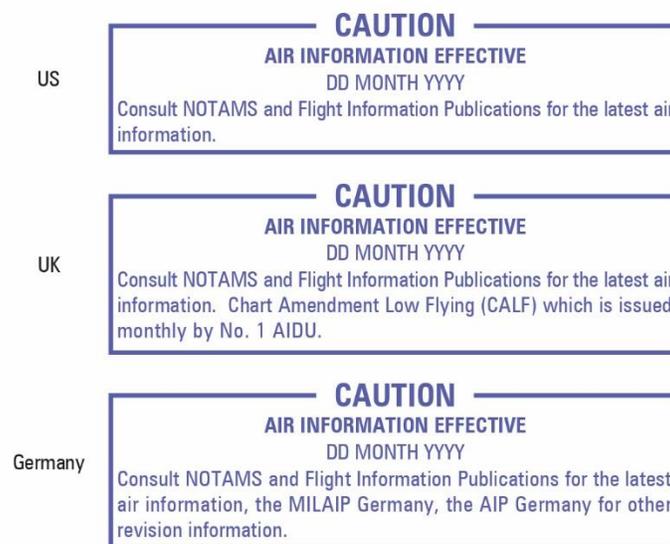


Figure 21. Air information currency note: US, German, and UK examples.

3.8.2 Maximum Elevation Figures (MEF) note box -1501A only

A note explaining the application of Maximum Elevation Figures (MEF) shall be included in a margin box on each 1501A (JOG-Air) sheet (see Figure 22). See also JOG DPS PC section XXXX. The MEF value shown in the margin box shall be tailored to the highest MEF value shown on the respective JOG sheet.

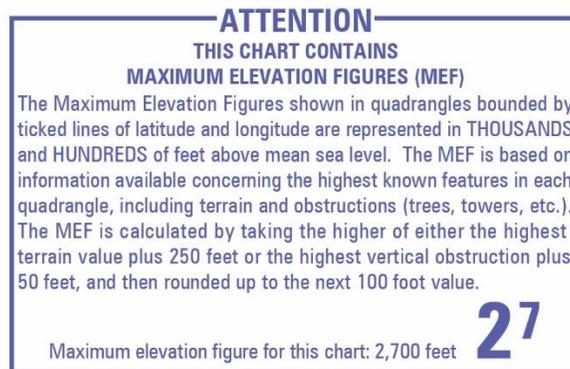


Figure 22. Maximum elevation figures (MEF) note.

3.8.3 Vertical obstruction caution note box

A caution note regarding the reliability of vertical obstruction information (see Figure 23) shall be included in a margin box for both JOG series sheets (1501 and 1501A).



Figure 23. Vertical obstruction caution note.

3.9 Road and Railway objectives – 1501 only

3.9.1 Definition

A road or railway objective is a selected destination and distance thereto, of a road or railway that continues beyond the limits of the map. They shall not be shown on 1501A (JOG-Air) sheets.

3.9.2 Destinations

A destination should usually be the nearest populated place, numbered or named road or railway, named railway station, named aerodrome, or prominent landmark feature on the adjacent sheet; however, in sparsely developed areas it may be necessary to select an objective two or more sheets away from the map under consideration.

3.9.3 Double objectives

Double road or railway objectives may be shown, space permitting, for primary routes. A double objective shall consist of the nearest destination and a distant, more important destination. Double objectives shall not be shown in densely developed areas.

3.9.4 Selection of objectives

The selection of road and railway objectives shall be based on the density of the road and railway network.

3.9.4.1 General practice for road/railway objectives

Objectives should normally be shown for primary all weather roads and railways. In developed areas with a dense concentration of railways and all weather roads, objectives should be shown only for railways and multiple lane or numbered roads, with railway objectives given preference over road objectives where applicable.

3.9.4.2 Objectives in underdeveloped areas

In underdeveloped areas, objectives should be shown for main transportation routes regardless of classification. This may include cart tracks and trails, where appropriate.

3.9.4.3 Road objectives to populated places

A populated place may be designated as a road objective even though the road in question actually bypasses the populated place, so long as the road in question and the populated place are connected by another road, cart track or trail. The distance shall be computed to the town and not to the nearby road junction.

3.9.4.4 Road/railway objectives to populated places on neatline

If a road or railway enters a populated place which straddles a sheet neatline, no objective shall be shown.

3.9.4.5 Ferry route objectives

Ferry route destinations beyond the neatline of a sheet shall be shown in the same manner as road and railway objectives.

For less developed locations, e.g. regional island areas in the South Pacific Ocean, ferry objectives should be shown as "Port" or "Town" followed by the applicable "Island name" shown in parenthesis. Example: "Vunisea (Kadavu Island) 43 km."

3.9.4.6 Number of objectives portrayed

Whenever possible, a minimum of three and a maximum of six objectives should be shown on each sheet edge.

3.9.5 Portrayal of road and railway objectives

The design and positioning of road and railway objectives are illustrated on Annex B - Style Sheets.

Road and railway distances shall be expressed in kilometers and are always abbreviated as "km.".

- Distances of 10 or more kilometers shall be shown to the nearest full kilometer; decimal fractions are omitted. Example: 12 km.
- Distances of less than 10 kilometers shall be shown to the nearest tenth of a kilometer. Examples: 8.3 km.; 7.0 km.
- Distances of less than one kilometer shall be expressed in zero kilometers and tenths of a kilometer. Example: 0.3 km.

3.9.5.1 Road/railroad objective leader arrows

A leader arrow shall represent the directional extension of the road or railway. If the road or railway branches at the neatline, two arrows shall be shown emanating from a common point.

3.9.5.2 Roads and/or railways with common objective

When two roads or railways (or a combination of both) have a common destination, and are parallel and a short distance apart at the neatline, a single objective shall be shown for both lines of transportation. A leader arrow shall be shown for each line of transportation.

3.9.5.3 Roads/railways with double objectives

A single arrow shall be shown for double objectives. Both destinations shall be centered over the arrow with the nearest destination shown closer to the map neatline.

3.9.5.4 Objectives that are numbered highways

If the road objective is a numbered highway, the objective shall read: "12 km. to MEXICO 75".

3.9.5.5 Objectives that are named roads or railways

If the objective is a named road or railway, the objective shall read: "ALCAN HIGHWAY 20 km."; or "UNION PACIFIC RAILWAY 40 km."

3.9.5.6 Objectives that are both named and numbered roads

If the objective is both a numbered and named road, the numbered designation shall be used as the objective.

4 Annotation Catalog Report Organization

The JOG AC Report is organized into the following annexes:

- Annex A – Annotations: presents all annotations from the JOG AC. These annotations (along with portrayed feature data) constitute the basic components of a JOG map display. Previously, text and style sheets conveyed the entirety of this information.
- Annex B – Style Sheets: presents the graphic illustration and design of annotation elements and their locations on the map. Included in Annex B are subsections that provide more detailed versioning and information related to certain annotation elements.

4.1 Annotations Report (Annex A)

4.1.1 Annotation Header

Each annotation is identified by a yellow header that provides the name of the annotation (corresponding to the particular section that describes that annotation within the JOG AC). Directly below this header is a reference to the section of the JOG AC text that describes the annotation (Figure 24).

The annotation header may also contain the caveats: “(1501-AIR only)” for those items that are to be included on a JOG-Air product only; “(1501-GROUND only)” for those items that are to be included on a JOG-Ground product only.



Figure 24. Annotation header from Annex A.

4.1.2 Annotation Metadata Elements

Annotations represent map display metadata and are defined by such metadata. The “Metadata Elements” section identifies the metadata elements associated with the annotation. Every metadata element that is used in an annotation rule, or whose value is used in the display of that annotation, is identified (Figure 25). Metadata elements identified in this section correspond to JOG metadata elements as listed in the JOG DPS, Section 8.

For each metadata element, the following information is provided:

- The **name** of the metadata element.
- The **substitution value** used to indicate where the metadata element’s value is to be substituted into rule clauses, etc.
- The **description** of the metadata element.

Metadata Elements		
Name:	Substitution Value:	Description:
Reference Number	rn	The unique Reference Number (RN) of the map sheet.
NATO/National Stock Number	nsn	The unique NATO/National Stock Number (NSN) of the map sheet.
Edition Number	editionNumber	The edition number of the map sheet.

Figure 25. Metadata elements from Annex A.

4.1.3 Annotation Rules

Rules consist of expressions involving metadata values that provide context or conditions and guide annotation appearance. Rules in the “Annotation Rules” section govern when the annotation will be shown within the JOG map display. For each Annotation Rule, the following information is presented (Figure 26):

- The **reference number** of the rule (AC-XXXX);
- A **human-readable description** of the rule;
- The **criteria** to be evaluated.
 - o The criteria for each rule are a series of clauses that together evaluate to a Boolean value (TRUE/FALSE); an evaluation of TRUE indicates that the annotation will be shown, while FALSE means that it will not appear.
 - o The rule criteria may take into account the value of the various metadata elements for the given JOG. The metadata element’s substitution value (see section 4.1.2) will be used as a placeholder for the actual value of the element.

Annotation Rules		
Reference #:	Description:	Criteria:
AC-0004	Classified	[sheetClassificationCode] is not 'unclassified'

Figure 26. Sample annotation rules from Annex A.

4.1.4 Annotation Versions

Just as a feature symbol may have variations that are applicable to given attribute values or display considerations, each annotation may have variant forms that are used under particular conditions (governed by annotation metadata). The remainder of the information about each annotation is listed in the version section (shown in total in Figure 27, and discussed more completely in the remainder of this section).

Contour Interval Note (1501-Air, Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0029	Intermediate contours present	[[dataContent] includes intermediate contours.)
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #:	Name:	Type:
203128	Intermediate Contour Interval Note (feet)	Text
Symbol Graphic Reference:	"CONTOUR INTERVAL APPROXIMATELY [contourInterval.intermediate] FEET"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	

Contour Interval Note (1501-Air, Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0029	Intermediate contours present	[[dataContent] includes intermediate contours.)
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #:	Name:	Type:
203128	Intermediate Contour Interval Note (feet)	Text
Symbol Graphic Reference:	"CONTOUR INTERVAL APPROXIMATELY [contourInterval.intermediate] FEET"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	
203129	Intermediate Contour Interval Note (feet) (translated)	Text
Symbol Graphic Reference:	"CONTOUR INTERVAL APPROXIMATELY [contourInterval.intermediate] FEET" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	

Figure 27. Annotation versions from Annex A.

4.1.4.1 Annotation Version Header

If an annotation consists of more than one version, the name of the version is provided in blue. The name of the version typically (but not universally) consists of the name of the annotation, with variant information provided in parentheses (Figure 28).

Main Classification Box (Classified, No Special Handling, Single Language)

Figure 28. Annotation version header from Annex A.

If an annotation has only a single version, this header is omitted, as the name of the single version is identical to the name of the annotation as a whole.

4.1.4.2 Style Sheet References and Version Notes

Directly below the annotation version header (if present) are references to the JOG style sheets on which the annotation version can be found (if applicable).

Additionally, any specific notes pertaining to the version are given; these notes may provide clarification on the construction or location of the annotation, or references to external documents (see Figure 29).

Style Sheet References:	Version Notes:
Annex B.1: Arrangement Single Language	The "Meters to Feet" graphic shall be used.

Figure 29. Annotation style sheet references and version notes.

4.1.4.3 Annotation Version Rules

Version rules identify when a particular annotation version will be used, and are listed after that version's blue header (see Figure 30). The format and presentation of these rules matches that of the "Annotation Rules" as a whole (as presented in section 4.1.3).

If all of the criteria for a given Version Rule evaluate to TRUE for a JOG instance, that particular version of the annotation should be used for the instance. Version rules are constructed so that only one version of each annotation will evaluate to TRUE in this way.

If there is only a single version of an annotation (i.e. there are no blue headers for separate annotation versions), the Version Rules section will not appear – the Annotation Rules alone govern the appearance of the annotation.

Version Rules		
Reference #:	Description:	Criteria:
AC-0004	Classified	[sheetClassificationCode] is not 'unclassified'
AC-0023	No Special Handling	[sheetSpecialHandlingInfo] Is Null
AC-0002	Single-language	[displayLanguage.count] = 1

Figure 30. Annotation version rules from Annex A.

4.1.4.4 Annotation Components

The Components section describes in detail the components that make up the annotation version. Like feature symbols, each annotation is made up of multiple graphical (lines and other geometric symbols) and textual elements. Components are not inherently annotation-specific: they may be reused among annotations or annotation versions, although most components are only used in one annotation/version.

Figure provides an example of a complete components section. For each component (regardless of type), the following characteristics are listed:

- The full **reference number** of the component, a 6-digit number that uniquely identifies the component regardless of the annotation/version it is a part of;
- The descriptive **name** of the component; and
- The **type** of the component (text, graphic, map, or other);
- (at bottom) Additional **notes** on the component (if needed).

Components		
Reference #: 200411	Name: Ellipsoid Note	Type: Text
Symbol Graphic Reference:	"ELLIPSOID...WORLD GEODETIC SYSTEM 1984"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Note:	The ellipsoid used for all maps is the World Geodetic System 1984.	
Reference #: 203149	Name: Grid Note	Type: Text
Symbol Graphic Reference:	"GRID...10,000 METER UTM ZONE [primaryMapMajorGridZone]"	
Color:	Cyan	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Note:	The grid system used for all maps is UTM. For information on composition of the grid note for sheets containing a grid zone junction, refer to sub-annex B.6 of the DPS AC.	
Reference #: 200413	Name: Projection Note	Type: Text
Symbol Graphic Reference:	"PROJECTION...TRANSVERSE MERCATOR"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Note:	The projection for all maps is Transverse Mercator.	
Reference #: 200414	Name: Vertical Datum Note	Type: Text
Symbol Graphic Reference:	"VERTICAL DATUM...MEAN SEA LEVEL"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Note:	The vertical datum for all maps is Mean Sea Level.	
Reference #: 200415	Name: Horizontal Datum Note	Type: Text
Symbol Graphic Reference:	"HORIZONTAL DATUM...WORLD GEODETIC SYSTEM 1984"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Note:	The horizontal datum for all maps is the World Geodetic System 1984.	

Figure 31. Annotation components section example from Annex A.

4.1.4.4.1 Text components

Text components consist of any amount of text with associated color and type specification information (see Figure32 for an example).

The parameters of a text component are as follows:

- The **text content** of the component (the literal text to be displayed). Substitution values of metadata elements (see section 4.1.2) may be used within this text string to indicate that the metadata element value should be inserted as appropriate.

- The **color** of the text.
- The **type specification** of the text, including font, size, weight, and case (upper or mixed case).

Reference #: 203112	Name: File Preparation Note	Type: Text
Symbol Graphic Reference:	"FILE PREPARED BY.....[producingAgencyCode] [preparationDate]"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	

Figure32. Text component specification from Annex A.

4.1.4.4.2 Graphic components

Graphic components consist of graphical elements, analogous to the points/lines/polygons that make up feature symbols. Current graphic component specifications are limited to references to external symbols or graphics.

The parameters of a graphic component (Figure) are as follows:

- The **symbol graphic reference**, normally a **note** that indicates the external reference.

Reference #: 200007	Name: Producer Seal Graphic	Type: Graphic
Symbol Graphic Reference:	(Producer Seal graphic filename)	

Figure 33. Graphic component specification from Annex A.

4.2 Style Sheets and supporting sections (Annex B)

The following sections are included in Annex B - Style Sheets:

- B.1 – 1:250,000 Scale Joint Operations Graphics Style Sheet, “Arrangement single language” (attached). Portrays the normal size and positioning of margin elements without a translation requirement
- B.2 – 1:250,000 Scale Joint Operations Graphics Style Sheet, “Arrangement multi-language” (attached). Portrays the normal size positioning of margin elements with a translation requirement.
- B.3 – Master Legend – Air. Illustrates the design and composition of a standard symbol legend to be used on a 1501A (JOG- Air).
- B.4 – Master Legend – Ground. Illustrates the design and composition of a standard symbol legend to be used on a 1501 (JOG- Ground).
- B.5 – Air Warning Notes. Provides examples and specific portrayal information of Air Warning Notes (JOG-AIR only).
- B.6 – Grid Zone Junctions. Provides specific portrayal and labeling information for when a grid junction falls within the sheet limits.

Annex A - Annotations

This annex presents all annotations from the JOG DPS Annotation Catalog. These annotations (along with portrayed feature data) constitute the basic components of a JOG map display.

NOTE – The bookmark tool on the left panel of the PDF also provides hyperlinks to each annotation and annotation version.

Air Information Currency Note Box (1501-AIR only)

DPS AC Section: 3.8.1

Metadata Elements

Name:	Substitution Value:	Description:
Air Information Date	airInformationDate	The date (DD Month YYYY) of currency of air information retrieval.
JOG Series Version	JOGseriesVersion	The series version of JOG being produced (1501 or 1501-Air).
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Air Information Currency Note Box (Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 203119 Name: Air Information Currency Box Graphic Type: Graphic

Note: Refer to DPS AC section 3.8.1 for detailed instructions and specifications on the content of the air information currency box.

Air Information Currency Note Box (Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #: 203120 Name: Air Information Currency Box Graphic (translated) Type: Graphic

Note: Refer to DPS AC section 3.8.1 for detailed instructions and specifications on the content of the air information currency box.

Bar Code Box

DPS AC Section: 3.1.4

Metadata Elements

Name:	Substitution Value:	Description:
Reference Number	rn	The unique Reference Number (RN) of the map sheet.
NATO/National Stock Number	nsn	The unique NATO/National Stock Number (NSN) of the map sheet.
Edition Number	editionNumber	The edition number of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

(none)

Components

Reference #: 201501	Name: NSN Bar Code	Type: Bar Code
Note: Detailed information and portrayal standards for bar codes can be found in MIL-STD-2414A, "Bar Coding for Geospatial Products".		
Reference #: 201502	Name: NSN Note	Type: Text
Symbol Graphic Reference:	"NSN [nsn]"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	
Reference #: 201503	Name: Ref Number Label	Type: Text
Symbol Graphic Reference:	"REF. NO."	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Note: The producing agency (if not NGA) may substitute its own label and stock/reference number.		
Reference #: 201504	Name: Ref Number	Type: Text
Symbol Graphic Reference:	"[rn]"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	
Note: The producing agency (if not NGA) may substitute its own label and stock/reference number.		
Reference #: 201505	Name: Edition Bar Code	Type: Bar Code
Note: Detailed information and portrayal standards for bar codes can be found in MIL-STD-2414A, "Bar Coding for Geospatial Products".		
Reference #: 201506	Name: Edition Bar Code Label	Type: Text
Symbol Graphic Reference:	"ED. NO."	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Reference #: 201507	Name: Edition Bar Code Number	Type: Text
Symbol Graphic Reference:	"[editionNumber]"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	

Bar Scale

DPS AC Section: 3.3.2.2

Metadata Elements

Name:	Substitution Value:	Description:
Sheet Scale	displayScale	The scale (representative fraction) of the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Bar Scale (1:250K, Single Language)

Style Sheet References:	Version Notes:
Annex B.1: Arrangement Single Language	(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0045	1:250K	[displayScale.equivalentScale] = 1:250,000
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 203126 Name: Bar Scale (1:250K) Type: Graphic
 Symbol Graphic Reference: (none)

Note: Refer to Annex B.1 Style Sheet for detailed instructions and specifications on the construction of the bar scale.

Bar Scale (1:250K, Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0045	1:250K	[displayScale.equivalentScale] = 1:250,000
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #: 203127 Name: Bar Scale (1:250K, Translated) Type: Graphic
 Symbol Graphic Reference: (none)

Note: Refer to Annex B.2 Style Sheet for detailed instructions and specifications on the construction of the bar scale.

Boundary Disclaimer Note

DPS AC Section: 3.4.1.1

Metadata Elements

Name:	Substitution Value:	Description:
Data Content	dataContent	The data content represented on the map sheet.
Sheet Extent	sheetGeographicExtent	The geographic extent of the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0036	International	[[sheetGeographicExtent] includes any area outside the US.)

Boundary Disclaimer Note (Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

Shown below the Location Diagram.

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 203130 Name: Boundary Disclaimer Note Type: Text
 Symbol Graphic Reference: "Boundary representation is not necessarily authoritative."
 Color: Black
 Type Specification: Zurich Condensed (6 point, Medium, Mixed Case)

Boundary Disclaimer Note (Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

Shown below the Location Diagram.

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #: 203130	Name: Boundary Disclaimer Note	Type: Text
Symbol Graphic Reference:	"Boundary representation is not necessarily authoritative."	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Mixed Case)	
Reference #: 203131	Name: Boundary Disclaimer Note (Translated)	Type: Text
Symbol Graphic Reference:	"Boundary representation is not necessarily authoritative." (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Light, Mixed Case)	

Classification Marking - Lower

DPS AC Section: 3.2.1

Metadata Elements

Name:	Substitution Value:	Description:
Classification (Code)	sheetClassificationCode	The security classification of the map sheet.
Special Handling Information	sheetSpecialHandlingInfo	Any security caveats or special handling instructions related to the map sheet.
Declassification Information	sheetDeclassInfo	Declassification information for a classified map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0004	Classified	[sheetClassificationCode] is not 'unclassified'

Main Classification Box (Classified, No Special Handling, Single Language)

Style Sheet References:	Version Notes:
Annex B.1: Arrangement Single Language (Keyed Notes)	(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0004	Classified	[sheetClassificationCode] is not 'unclassified'
AC-0023	No Special Handling	[sheetSpecialHandlingInfo] Is Null
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 200211	Name: Classification Note	Type: Text
Symbol Graphic Reference:	"[sheetClassificationCode]"	
Color:	Dk-Brown202	
Type Specification:	Zurich Condensed (20 point, Bold, Upper Case)	
Reference #: 200213	Name: Downgrading/Declassification Note	Type: Text
Symbol Graphic Reference:	"[sheetDeclassInfo]"	
Color:	Dk-Brown202	
Type Specification:	Zurich Condensed (10 point, Bold, Upper Case)	

Main Classification Box (Classified, No Special Handling, Multiple Language)

Style Sheet References:	Version Notes:
Annex B.2: Arrangement Multi-Language (Keyed Notes)	(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0004	Classified	[sheetClassificationCode] is not 'unclassified'

AC-0023	No Special Handling	[sheetSpecialHandlingInfo] Is Null
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #: 203108	Name: Classification Note (translated)	Type: Text
Symbol Graphic Reference:	"[sheetClassificationCode]" (translated)	
Color:	Dk-Brown202	
Type Specification:	Zurich Condensed (14 point, Medium, Upper Case)	
Reference #: 203109	Name: Downgrading/Declassification Note (translated)	Type: Text
Symbol Graphic Reference:	"[sheetDeclassInfo]" (translated)	
Color:	Dk-Brown202	
Type Specification:	Zurich Condensed (10 point, Medium, Upper Case)	

Main Classification Box (Classified, Special Handling, Single Language)

Style Sheet References:

Version Notes:

Annex B.1: Arrangement Single Language (Keyed Notes)	(none)
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Version Rules

Reference #:	Description:	Criteria:
AC-0004	Classified	[sheetClassificationCode] is not 'unclassified'
AC-0033	Special Handling	[sheetSpecialHandlingInfo] Is Not Null
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 200211	Name: Classification Note	Type: Text
Symbol Graphic Reference:	"[sheetClassificationCode]"	
Color:	Dk-Brown202	
Type Specification:	Zurich Condensed (20 point, Bold, Upper Case)	
Reference #: 200212	Name: Caveat/Special Handling Note	Type: Text
Symbol Graphic Reference:	"[sheetSpecialHandlingInfo]"	
Color:	Dk-Brown202	
Type Specification:	Zurich Condensed (10 point, Bold, Upper Case)	
Reference #: 200213	Name: Downgrading/Declassification Note	Type: Text
Symbol Graphic Reference:	"[sheetDeclassInfo]"	
Color:	Dk-Brown202	
Type Specification:	Zurich Condensed (10 point, Bold, Upper Case)	

Main Classification Box (Classified, Special Handling, Multiple Language)

Style Sheet References:

Version Notes:

Annex B.2: Arrangement Multi-Language (Keyed Notes)	(none)
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Version Rules

Reference #:	Description:	Criteria:
AC-0004	Classified	[sheetClassificationCode] is not 'unclassified'
AC-0033	Special Handling	[sheetSpecialHandlingInfo] Is Not Null
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #: 203108	Name: Classification Note (translated)	Type: Text
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Symbol Graphic Reference: "[sheetClassificationCode]" (translated)
 Color: Dk-Brown202
 Type Specification: Zurich Condensed (14 point, Medium, Upper Case)

Reference #: 203110 **Name:** Caveat/Special Handling Note (translated) **Type:** Text

Symbol Graphic Reference: "[sheetSpecialHandlingInfo]" (translated)
 Color: Dk-Brown202
 Type Specification: Zurich Condensed (10 point, Medium, Upper Case)

Reference #: 203109 **Name:** Downgrading/Declassification Note (translated) **Type:** Text

Symbol Graphic Reference: "[sheetDeclassInfo]" (translated)
 Color: Dk-Brown202
 Type Specification: Zurich Condensed (10 point, Medium, Upper Case)

Classification Marking - Upper

DPS AC Section: 3.2.1

Metadata Elements

Name:	Substitution Value:	Description:
Classification (Code)	sheetClassificationCode	The security classification of the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0004	Classified	[sheetClassificationCode] is not 'unclassified'

Upper Classification Note (Single Language)

Style Sheet References:	Version Notes:
Annex B.1: Arrangement Single Language (Keyed Notes)	(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 200004 **Name:** Upper Classification Note **Type:** Text

Symbol Graphic Reference: "[sheetClassificationCode]"
 Color: Dk-Brown202
 Type Specification: Zurich Condensed (20 point, Bold, Upper Case)

Upper Classification Note (Multiple Language)

Style Sheet References:	Version Notes:
Annex B.2: Arrangement Multi-Language (Keyed Notes)	(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #: 203111 **Name:** Upper Classification Note (translated) **Type:** Text

Symbol Graphic Reference: "[sheetClassificationCode]" (translated)
 Color: Dk-Brown202
 Type Specification: Zurich Condensed (14 point, Medium, Upper Case)

Contour Information Note

DPS AC Section: 3.3.3.2

Metadata Elements

Name:	Substitution Value:	Description:
Data Content - Intermediate Contour Interval	contourInterval.intermediate	The primary (intermediate) contour interval represented by the contour data for the map sheet.
Data Content - Maximum Elevation	dataContent.maxElevation	The maximum elevation value over the geographic extent of the map sheet.
Data Content - Minimum Elevation	dataContent.minElevation	The minimum elevation value over the geographic extent of the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.
JOG Series Version	JOGseriesVersion	The series version of JOG being produced (1501 or 1501-Air).

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Contour Interval Note (1501, Single Language)

Style Sheet References:

Version Notes:

Annex B.1: Arrangement Single Language

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0029	Intermediate contours present	([dataContent] includes intermediate contours.)
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Components

Reference #:	Name:	Type:
200511	Intermediate Contour Interval Note	Text
Symbol Graphic Reference:	"CONTOUR INTERVAL [contourInterval.intermediate] METERS"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	

Contour Interval Note (1501, Multiple Language)

Style Sheet References:

Version Notes:

Annex B.2: Arrangement Multi-Language

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0029	Intermediate contours present	([dataContent] includes intermediate contours.)
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Components

Reference #:	Name:	Type:
200511	Intermediate Contour Interval Note	Text
Symbol Graphic Reference:	"CONTOUR INTERVAL [contourInterval.intermediate] METERS"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	

Reference #: 200513	Name: Intermediate Contour Interval Note (translated)	Type: Text
Symbol Graphic Reference:	"CONTOUR INTERVAL [contourInterval.intermediate] METERS" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	

Contour Interval Note (1501-Air, Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0029	Intermediate contours present	[[dataContent] includes intermediate contours.)
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #: 203128	Name: Intermediate Contour Interval Note (feet)	Type: Text
Symbol Graphic Reference:	"CONTOUR INTERVAL APPROXIMATELY [contourInterval.intermediate] FEET"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	

Contour Interval Note (1501-Air, Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0029	Intermediate contours present	[[dataContent] includes intermediate contours.)
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #: 203128	Name: Intermediate Contour Interval Note (feet)	Type: Text
Symbol Graphic Reference:	"CONTOUR INTERVAL APPROXIMATELY [contourInterval.intermediate] FEET"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	

Reference #: 203129	Name: Intermediate Contour Interval Note (feet) (translated)	Type: Text
Symbol Graphic Reference:	"CONTOUR INTERVAL APPROXIMATELY [contourInterval.intermediate] FEET" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	

Maximum Elevation Note (1501, Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0031	Maximum elevation less than contour interval	[dataContent.maxElevation] < [contourInterval.intermediate]

AC-0002	Single-language	[displayLanguage.count] = 1
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Components

Reference #: 200515	Name: Maximum Elevation Note	Type: Text
Symbol Graphic Reference:	"MAXIMUM ELEVATION [dataContent.maxElevation] METERS"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	

Maximum Elevation Note (1501, Multiple Language)

Style Sheet References:	Version Notes:
Annex B.2: Arrangement Multi-Language	(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0031	Maximum elevation less than contour interval	[dataContent.maxElevation] < [contourInterval.intermediate]
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Components

Reference #: 200515	Name: Maximum Elevation Note	Type: Text
Symbol Graphic Reference:	"MAXIMUM ELEVATION [dataContent.maxElevation] METERS"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	

Reference #: 200517	Name: Maximum Elevation Note (translated)	Type: Text
Symbol Graphic Reference:	"MAXIMUM ELEVATION [dataContent.maxElevation] METERS" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	

Maximum Elevation Note (1501-Air, Single Language)

Style Sheet References:	Version Notes:
Annex B.1: Arrangement Single Language	(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0031	Maximum elevation less than contour interval	[dataContent.maxElevation] < [contourInterval.intermediate]
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #: 203132	Name: Maximum Elevation Note (feet)	Type: Text
Symbol Graphic Reference:	"MAXIMUM ELEVATION APROXIMATELY [dataContent.maxElevation] FEET"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	

Maximum Elevation Note (1501-Air, Multiple Language)

Style Sheet References:	Version Notes:
Annex B.2: Arrangement Multi-Language	(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0031	Maximum elevation less than contour interval	[dataContent.maxElevation] < [contourInterval.intermediate]
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #: 203132	Name: Maximum Elevation Note (feet)	Type: Text
Symbol Graphic Reference:	"MAXIMUM ELEVATION APROXIMATELY [dataContent.maxElevation] FEET"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	
Reference #: 203133	Name: Maximum Elevation Note (feet) (translated)	Type: Text
Symbol Graphic Reference:	"MAXIMUM ELEVATION APROXIMATELY [dataContent.maxElevation] FEET" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	

No Contour Note (1501, Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0030	No intermediate contours present	!([dataContent] does not include intermediate contours.)
AC-0032	Maximum elevation greater than contour interval	[dataContent.maxElevation] >= [contourInterval.intermediate]
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Components

Reference #: 200516	Name: No Contour Note	Type: Text
Symbol Graphic Reference:	"THE TERRAIN ON THIS MAP IS BETWEEN [dataContent.minElevation] AND [dataContent.maxElevation] METERS ABOVE MEAN SEA LEVEL"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	

No Contour Note (1501, Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0030	No intermediate contours present	!([dataContent] does not include intermediate contours.)
AC-0032	Maximum elevation greater than contour interval	[dataContent.maxElevation] >= [contourInterval.intermediate]
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Components

Reference #: 200516	Name: No Contour Note	Type: Text
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Symbol Graphic Reference:	"THE TERRAIN ON THIS MAP IS BETWEEN [dataContent.minElevation] AND [dataContent.maxElevation] METERS ABOVE MEAN SEA LEVEL"
Color:	Black
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)

Reference #: 200518	Name: No Contour Note (translated)	Type: Text
Symbol Graphic Reference:	"THE TERRAIN ON THIS MAP IS BETWEEN [dataContent.minElevation] AND [dataContent.maxElevation] METERS ABOVE MEAN SEA LEVEL" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	

No Contour Note (1501-Air, Single Language)

Style Sheet References:	Version Notes:
Annex B.1: Arrangement Single Language	(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0030	No intermediate contours present	([dataContent] does not include intermediate contours.)
AC-0032	Maximum elevation greater than contour interval	[dataContent.maxElevation] >= [contourInterval.intermediate]
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #: 203196	Name: No Contour Note (feet)	Type: Text
Symbol Graphic Reference:	"THE TERRAIN ON THIS MAP IS BETWEEN APPROXIMATELY [dataContent.minElevation] AND [dataContent.maxElevation] FEET ABOVE MEAN SEA LEVEL"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	

No Contour Note (1501-Air, Multiple Language)

Style Sheet References:	Version Notes:
Annex B.2: Arrangement Multi-Language	(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0030	No intermediate contours present	([dataContent] does not include intermediate contours.)
AC-0032	Maximum elevation greater than contour interval	[dataContent.maxElevation] >= [contourInterval.intermediate]
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #: 203196	Name: No Contour Note (feet)	Type: Text
Symbol Graphic Reference:	"THE TERRAIN ON THIS MAP IS BETWEEN APPROXIMATELY [dataContent.minElevation] AND [dataContent.maxElevation] FEET ABOVE MEAN SEA LEVEL"	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Bold, Upper Case)	

Reference #: 203197	Name: No Contour Note (feet) (translated)	Type: Text
Symbol Graphic Reference:	"THE TERRAIN ON THIS MAP IS BETWEEN APPROXIMATELY [dataContent.minElevation] AND [dataContent.maxElevation] FEET ABOVE MEAN SEA LEVEL" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (9 point, Medium, Upper Case)	

Contour Interval Note - Supplementary

DPS AC Section: 3.3.3.2.2

Metadata Elements

Name:	Substitution Value:	Description:
Data Content - Supplementary Contour Interval	contourInterval.supplementary	The supplementary contour interval(s) represented by the contour data for the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.
JOG Series Version	JOGseriesVersion	The series version of JOG being produced (1501 or 1501-Air).

Annotation Rules

Reference #:	Description:	Criteria:
AC-0022	Supplementary contours present	[[dataContent] includes supplementary contours.)

Single Supplementary Contour Note (1501, Single Language)

Style Sheet References:	Version Notes:
Annex B.1: Arrangement Single Language	(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0038	Single supplementary contour interval	[contourInterval.supplementary.count] = 1
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Components

Reference #:	Name:	Type:
200512	Single Supplementary Contour Interval Note	Text
Symbol Graphic Reference:	"SUPPLEMENTARY CONTOUR INTERVAL [contourInterval.supplementary] METERS"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Bold, Upper Case)	

Single Supplementary Contour Note (1501, Multiple Language)

Style Sheet References:	Version Notes:
Annex B.2: Arrangement Multi-Language	(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0038	Single supplementary contour interval	[contourInterval.supplementary.count] = 1
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Components

Reference #:	Name:	Type:
200512	Single Supplementary Contour Interval Note	Text
Symbol Graphic Reference:	"SUPPLEMENTARY CONTOUR INTERVAL [contourInterval.supplementary] METERS"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Bold, Upper Case)	
200514	Single Supplementary Contour Interval Note (translated)	Text
Symbol Graphic Reference:	"SUPPLEMENTARY CONTOUR INTERVAL [contourInterval.supplementary] METERS" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	

Single Supplementary Contour Note (1501-Air, Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0038	Single supplementary contour interval	[contourInterval.supplementary.count] = 1
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #:	Name:	Type:
203134	Single Supplementary Contour Interval Note (feet)	Text
Symbol Graphic Reference:	"SUPPLEMENTARY CONTOUR INTERVAL APPROXIMATELY [contourInterval.supplementary] FEET"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Bold, Upper Case)	

Single Supplementary Contour Note (1501-Air, Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0038	Single supplementary contour interval	[contourInterval.supplementary.count] = 1
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #:	Name:	Type:
203134	Single Supplementary Contour Interval Note (feet)	Text
Symbol Graphic Reference:	"SUPPLEMENTARY CONTOUR INTERVAL APPROXIMATELY [contourInterval.supplementary] FEET"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Bold, Upper Case)	
Reference #:	Name:	Type:
203135	Single Supplementary Contour Interval Note (feet) (translated)	Text
Symbol Graphic Reference:	"SUPPLEMENTARY CONTOUR INTERVAL APPROXIMATELY [contourInterval.supplementary] FEET" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	

Multiple Supplementary Contour Note (1501, Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0037	Multiple supplementary contour intervals	[contourInterval.supplementary.count] > 1
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Components

Reference #: 202301	Name: Multiple Supplementary Contour Interval Note	Type: Text
Symbol Graphic Reference:	"SUPPLEMENTARY CONTOURS AT [contourInterval.supplementary[1]] AND [contourInterval.supplementary[2]] METERS"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Bold, Upper Case)	

Multiple Supplementary Contour Note (1501, Multiple Language)

Style Sheet References: **Version Notes:**

Annex B.2: Arrangement Multi-Language (none)

Version Rules

Reference #:	Description:	Criteria:
AC-0037	Multiple supplementary contour intervals	[contourInterval.supplementary.count] > 1
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Components

Reference #: 202301	Name: Multiple Supplementary Contour Interval Note	Type: Text
Symbol Graphic Reference:	"SUPPLEMENTARY CONTOURS AT [contourInterval.supplementary[1]] AND [contourInterval.supplementary[2]] METERS"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Bold, Upper Case)	

Reference #: 202302	Name: Multiple Supplementary Contour Interval Note (Translated)	Type: Text
Symbol Graphic Reference:	"SUPPLEMENTARY CONTOURS AT [contourInterval.supplementary[1]] AND [contourInterval.supplementary[2]] METERS" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	

Multiple Supplementary Contour Note (1501-Air, Single Language)

Style Sheet References: **Version Notes:**

Annex B.1: Arrangement Single Language (none)

Version Rules

Reference #:	Description:	Criteria:
AC-0037	Multiple supplementary contour intervals	[contourInterval.supplementary.count] > 1
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #: 203136	Name: Multiple Supplementary Contour Interval Note (feet)	Type: Text
Symbol Graphic Reference:	"SUPPLEMENTARY CONTOURS AT APPROXIMATELY [contourInterval.supplementary[1]] AND [contourInterval.supplementary[2]] FEET"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Bold, Upper Case)	

Multiple Supplementary Contour Note (1501-Air, Multiple Language)

Style Sheet References: **Version Notes:**

Annex B.2: Arrangement Multi-Language (none)

Version Rules

Reference #:	Description:	Criteria:
AC-0037	Multiple supplementary contour intervals	[contourInterval.supplementary.count] > 1
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #:	203136	Name:	Multiple Supplementary Contour Interval Note (feet)	Type:	Text
Symbol Graphic Reference:	"SUPPLEMENTARY CONTOURS AT APPROXIMATELY [contourInterval.supplementary[1]] AND [contourInterval.supplementary[2]] FEET"				
Color:	Black				
Type Specification:	Zurich Condensed (6 point, Bold, Upper Case)				
Reference #:	203137	Name:	Multiple Supplementary Contour Interval Note (feet) (Translated)	Type:	Text
Symbol Graphic Reference:	"SUPPLEMENTARY CONTOURS AT APPROXIMATELY [contourInterval.supplementary[1]] AND [contourInterval.supplementary[2]] FEET" (translated)				
Color:	Black				
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)				

Conversion of Elevations Scale

DPS AC Section: 3.3.3.3

Metadata Elements

Name:	Substitution Value:	Description:
Display Language	displayLanguage	The language(s) of presentation of the map sheet.
JOG Series Version	JOGseriesVersion	The series version of JOG being produced (1501 or 1501-Air).

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Conversion of Elevations Scale (1501, Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

The "Meters to Feet" graphic shall be used.

Version Rules

Reference #:	Description:	Criteria:
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #:	203138	Name:	Conversion Scale Title	Type:	Text
Symbol Graphic Reference:	"CONVERSION OF ELEVATIONS"				
Color:	Black				
Type Specification:	Zurich Condensed (8 point, Medium, Upper Case)				
Reference #:	203139	Name:	Conversion Scale Graphic (JOG-Ground)	Type:	Map
Note:	Refer to DPS AC section 3.3.3.3 for detailed instructions and specifications on the construction of the conversion of elevations scale. The "Meters to Feet" graphic shall be used.				

Conversion of Elevations Scale (1501, Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

The "Meters to Feet" graphic shall be used.

Version Rules

Reference #:	Description:	Criteria:
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #:	203138	Name:	Conversion Scale Title	Type:	Text
Symbol Graphic Reference:			"CONVERSION OF ELEVATIONS"		
Color:			Black		
Type Specification:			Zurich Condensed (8 point, Medium, Upper Case)		
Reference #:	203140	Name:	Conversion Scale Title (translated)	Type:	Text
Symbol Graphic Reference:			"CONVERSION OF ELEVATIONS" (translated)		
Color:			Black		
Type Specification:			Zurich Condensed (8 point, Light, Upper Case)		
Reference #:	203139	Name:	Conversion Scale Graphic (JOG-Ground)	Type:	Map

Note: Refer to DPS AC section 3.3.3.3 for detailed instructions and specifications on the construction of the conversion of elevations scale. The "Meters to Feet" graphic shall be used.

Conversion of Elevations Scale (1501-Air, Single Language)

Style Sheet References:

Version Notes:

Annex B.1: Arrangement Single Language

The "Feet to Meters" graphic shall be used.

Version Rules

Reference #:	Description:	Criteria:
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #:	203138	Name:	Conversion Scale Title	Type:	Text
Symbol Graphic Reference:			"CONVERSION OF ELEVATIONS"		
Color:			Black		
Type Specification:			Zurich Condensed (8 point, Medium, Upper Case)		
Reference #:	203141	Name:	Conversion Scale Graphic (JOG-Air)	Type:	Map

Note: Refer to DPS AC section 3.3.3.3 for detailed instructions and specifications on the construction of the conversion of elevations scale. The "Feet to Meters" graphic shall be used.

Conversion of Elevations Scale (1501-Air, Multiple Language)

Style Sheet References:

Version Notes:

Annex B.2: Arrangement Multi-Language

The "Feet to Meters" graphic shall be used.

Version Rules

Reference #:	Description:	Criteria:
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #:	203138	Name:	Conversion Scale Title	Type:	Text
Symbol Graphic Reference:			"CONVERSION OF ELEVATIONS"		
Color:			Black		
Type Specification:			Zurich Condensed (8 point, Medium, Upper Case)		

Reference #: 203140	Name: Conversion Scale Title (translated)	Type: Text
Symbol Graphic Reference:	"CONVERSION OF ELEVATIONS" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Light, Upper Case)	

Reference #: 203141	Name: Conversion Scale Graphic (JOG-Air)	Type: Map
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Note: Refer to DPS AC section 3.3.3.3 for detailed instructions and specifications on the construction of the conversion of elevations scale. The "Feet to Meters" graphic shall be used.

Copyright Note

DPS AC Section: 3.1.6.4

Metadata Elements

Name:	Substitution Value:	Description:
Copyright Date	copyrightDate	The copyright date (YYYY) of the map sheet.
Copyright Note Text	copyrightNoteText	The text of the Copyright Note as required by individual producing nations.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0044	Copyright required	(Sheets requiring a copyright per producing nation.)

Copyright Note (Single Language)

Style Sheet References:

Version Notes:

Annex B.1: Arrangement Single Language

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 200111	Name: Copyright Note	Type: Text
Symbol Graphic Reference:	"© COPYRIGHT [copyrightDate] [copyrightNoteText]"	
Color:	Black	
Type Specification:	Zurich Condensed (7 point, Medium, Upper Case)	

Copyright Note (Multiple Language)

Style Sheet References:

Version Notes:

Annex B.2: Arrangement Multi-Language

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #: 200111	Name: Copyright Note	Type: Text
Symbol Graphic Reference:	"© COPYRIGHT [copyrightDate] [copyrightNoteText]"	
Color:	Black	
Type Specification:	Zurich Condensed (7 point, Medium, Upper Case)	

Reference #: 200113	Name: Copyright Note (translated)	Type: Text
Symbol Graphic Reference:	"© COPYRIGHT [copyrightDate] [copyrightNoteText]" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (7 point, Light, Upper Case)	

Currency Notes

DPS AC Section: 3.4.2

Metadata Elements

Name:	Substitution Value:	Description:
Data Content	dataContent	The data content represented on the map sheet.
Data Content Lineage - Imagery Source Date	[lineage.source[imagery].sourceCitation.date]	The date (YYYY) of the imagery used to create the map sheet.
Data Content Lineage - Boundary Source Date	[lineage.source[boundaryData].sourceCitation.date]	The date (YYYY) of the boundary data used to create the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Currency Note Box (International Boundaries, Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

This specification only covers the most common examples of the Currency Notes. See DPS AC section 3.4.2 for additional variations.

Version Rules

Reference #:	Description:	Criteria:
AC-0005	Non-US Boundaries Displayed	([dataContent] includes non-US FA000 (Administrative Boundary) data.)
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 201001	Name: Standard Currency Note	Type: Text
Symbol Graphic Reference:	"MAP INFORMATION AS OF [lineage.source[imagery].sourceCitation.date]"	
Color:	Black	
Type Specification:	Zurich Condensed (7 point, Bold, Upper Case)	
Reference #: 201002	Name: International Boundary Currency Note	Type: Text
Symbol Graphic Reference:	"INTERNATIONAL BOUNDARIES AS OF [lineage.source[boundaryData].sourceCitation.date]"	
Color:	Black	
Type Specification:	Zurich Condensed (7 point, Bold, Upper Case)	

Currency Note Box (International Boundaries, Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

This specification only covers the most common examples of the Currency Notes. See DPS AC section 3.4.2 for additional variations.

Version Rules

Reference #:	Description:	Criteria:
AC-0005	Non-US Boundaries Displayed	([dataContent] includes non-US FA000 (Administrative Boundary) data.)
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #: 201001	Name: Standard Currency Note	Type: Text
Symbol Graphic Reference:	"MAP INFORMATION AS OF [lineage.source[imagery].sourceCitation.date]"	
Color:	Black	
Type Specification:	Zurich Condensed (7 point, Bold, Upper Case)	
Reference #: 201002	Name: International Boundary Currency Note	Type: Text

Symbol Graphic Reference: "INTERNATIONAL BOUNDARIES AS OF [lineage.source[boundaryData].sourceCitation.date]"
 Color: Black
 Type Specification: Zurich Condensed (7 point, Bold, Upper Case)

Reference #: 201003 Name: Standard Currency Note (translated) Type: Text
 Symbol Graphic Reference: "MAP INFORMATION AS OF [lineage.source[imagery].sourceCitation.date]" (translated)
 Color: Black
 Type Specification: Zurich Condensed (7 point, Medium, Upper Case)

Reference #: 201004 Name: International Boundary Currency Note (translated) Type: Text
 Symbol Graphic Reference: "INTERNATIONAL BOUNDARIES AS OF [lineage.source[boundaryData].sourceCitation.date]" (translated)
 Color: Black
 Type Specification: Zurich Condensed (7 point, Medium, Upper Case)

Currency Note Box (No International Boundaries, Single Language)

Style Sheet References:

Version Notes:

Annex B.1: Arrangement Single Language

This specification only covers the most common examples of the Currency Notes. See DPS AC section 3.4.2 for additional variations.

Version Rules

Reference #:	Description:	Criteria:
AC-0024	Non-US Boundaries Not Displayed	([dataContent] does not include non-US FA000 (Administrative Boundary) data.)
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 201001 Name: Standard Currency Note Type: Text
 Symbol Graphic Reference: "MAP INFORMATION AS OF [lineage.source[imagery].sourceCitation.date]"
 Color: Black
 Type Specification: Zurich Condensed (7 point, Bold, Upper Case)

Currency Note Box (No International Boundaries, Multiple Language)

Style Sheet References:

Version Notes:

Annex B.2: Arrangement Multi-Language

This specification only covers the most common examples of the Currency Notes. See DPS AC section 3.4.2 for additional variations.

Version Rules

Reference #:	Description:	Criteria:
AC-0024	Non-US Boundaries Not Displayed	([dataContent] does not include non-US FA000 (Administrative Boundary) data.)
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #: 201001 Name: Standard Currency Note Type: Text
 Symbol Graphic Reference: "MAP INFORMATION AS OF [lineage.source[imagery].sourceCitation.date]"
 Color: Black
 Type Specification: Zurich Condensed (7 point, Bold, Upper Case)

Reference #: 201003 Name: Standard Currency Note (translated) Type: Text
 Symbol Graphic Reference: "MAP INFORMATION AS OF [lineage.source[imagery].sourceCitation.date]" (translated)
 Color: Black
 Type Specification: Zurich Condensed (7 point, Medium, Upper Case)

Elevation Tint Legend (1501-AIR only)

DPS AC Section: 3.3.3.4

Metadata Elements

Name:	Substitution Value:	Description:
JOG Series Version	JOGseriesVersion	The series version of JOG being produced (1501 or 1501-Air).
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Elevation Tint Legend (Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 203146	Name: Elevation Tints Title	Type: Text
Symbol Graphic Reference:	"ELEVATION TINTS"	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Medium, Upper Case)	

Reference #: 203147	Name: Elevation Tints Graphic	Type: Map
----------------------------	--------------------------------------	------------------

Note: Refer to DPS PC Annex A and DPS AC section 3.3.3.4 for detailed instructions and specifications on the construction of the elevation tints legend.

Elevation Tint Legend (Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #: 203146	Name: Elevation Tints Title	Type: Text
Symbol Graphic Reference:	"ELEVATION TINTS"	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Medium, Upper Case)	

Reference #: 203148	Name: Elevation Tints Title (Translated)	Type: Text
Symbol Graphic Reference:	"ELEVATION TINTS" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Light, Upper Case)	

Reference #: 203147	Name: Elevation Tints Graphic	Type: Map
----------------------------	--------------------------------------	------------------

Note: Refer to DPS PC Annex A and DPS AC section 3.3.3.4 for detailed instructions and specifications on the construction of the elevation tints legend.

File Preparation Note

DPS AC Section: 3.1.6.3

Metadata Elements

Name:	Substitution Value:	Description:
File Preparation Date	preparationDate	The preparation date (MM-YYYY) of the file used to make the map sheet.
Producing Agency Code	producingAgencyCode	The abbreviation for the producing agency.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

File Preparation Note (Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

This note will appear at the bottom of the Composite Notes Box.

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 203112	Name: File Preparation Note	Type: Text
Symbol Graphic Reference:	"FILE PREPARED BY.....[producingAgencyCode] [preparationDate]"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	

File Preparation Note (Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

This note will appear at the bottom of the Composite Notes Box.

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #: 203112	Name: File Preparation Note	Type: Text
Symbol Graphic Reference:	"FILE PREPARED BY.....[producingAgencyCode] [preparationDate]"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Reference #: 203113	Name: File Preparation Note (Translated)	Type: Text
Symbol Graphic Reference:	"FILE PREPARED BY.....[producingAgencyCode] [preparationDate]" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	

Geodetic Information and Composite Notes

DPS AC Section: 3.3.1.1

Metadata Elements

Name:	Substitution Value:	Description:
Ellipsoid	ellipsoid	The ellipsoid to be used for the map sheet.
Grid System	gridSystem	The grid system to be used for map sheets.
Primary Map Major Grid Zone	primaryMapMajorGridZone	The major grid zone(s) to be shown on the primary map.
Projection	projection	The projection to be used for map sheets.
Horizontal Datum	horizontalDatum	The horizontal datum to be applied to the map sheet.
Vertical Datum	verticalDatum	The vertical datum to be applied to the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Composite Note Box (Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

The File Preparation Note (defined elsewhere) will be shown at the very bottom of this box.

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 200411	Name: Ellipsoid Note	Type: Text
Symbol Graphic Reference:	"ELLIPSOID...WORLD GEODETIC SYSTEM 1984"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Note:	The ellipsoid used for all maps is the World Geodetic System 1984.	
Reference #: 203149	Name: Grid Note	Type: Text
Symbol Graphic Reference:	"GRID...10,000 METER UTM ZONE [primaryMapMajorGridZone]"	
Color:	Cyan	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Note:	The grid system used for all maps is UTM. For information on composition of the grid note for sheets containing a grid zone junction, refer to sub-annex B.6 of the DPS AC.	
Reference #: 200413	Name: Projection Note	Type: Text
Symbol Graphic Reference:	"PROJECTION...TRANSVERSE MERCATOR"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Note:	The projection for all maps is Transverse Mercator.	
Reference #: 200414	Name: Vertical Datum Note	Type: Text
Symbol Graphic Reference:	"VERTICAL DATUM...MEAN SEA LEVEL"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Note:	The vertical datum for all maps is Mean Sea Level.	
Reference #: 200415	Name: Horizontal Datum Note	Type: Text

Symbol Graphic Reference: "HORIZONTAL DATUM...WORLD GEODETIC SYSTEM 1984"
 Color: Black
 Type Specification: Zurich Condensed (6 point, Medium, Upper Case)
 Note: The horizontal datum for all maps is the World Geodetic System 1984.

Composite Note Box (Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

The File Preparation Note (defined elsewhere) will be shown at the very bottom of this box.

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #:	200411	Name:	Ellipsoid Note	Type:	Text
Symbol Graphic Reference:	"ELLIPSOID...WORLD GEODETIC SYSTEM 1984"				
Color:	Black				
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)				
Note:	The ellipsoid used for all maps is the World Geodetic System 1984.				
Reference #:	203149	Name:	Grid Note	Type:	Text
Symbol Graphic Reference:	"GRID...10,000 METER UTM ZONE [primaryMapMajorGridZone]"				
Color:	Cyan				
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)				
Note:	The grid system used for all maps is UTM. For information on composition of the grid note for sheets containing a grid zone junction, refer to sub-annex B.6 of the DPS AC.				
Reference #:	200413	Name:	Projection Note	Type:	Text
Symbol Graphic Reference:	"PROJECTION...TRANSVERSE MERCATOR"				
Color:	Black				
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)				
Note:	The projection for all maps is Transverse Mercator.				
Reference #:	200414	Name:	Vertical Datum Note	Type:	Text
Symbol Graphic Reference:	"VERTICAL DATUM...MEAN SEA LEVEL"				
Color:	Black				
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)				
Note:	The vertical datum for all maps is Mean Sea Level.				
Reference #:	200415	Name:	Horizontal Datum Note	Type:	Text
Symbol Graphic Reference:	"HORIZONTAL DATUM...WORLD GEODETIC SYSTEM 1984"				
Color:	Black				
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)				
Note:	The horizontal datum for all maps is the World Geodetic System 1984.				
Reference #:	203150	Name:	Ellipsoid Note (translated)	Type:	Text
Symbol Graphic Reference:	"ELLIPSOID...WORLD GEODETIC SYSTEM 1984" (translated)				
Color:	Black				
Type Specification:	Zurich Condensed (6 point, Light, Upper Case)				
Note:	The ellipsoid used for all maps is the World Geodetic System 1984.				
Reference #:	203151	Name:	Grid Note (translated)	Type:	Text
Symbol Graphic Reference:	"GRID...10,000 METER UTM ZONE [primaryMapMajorGridZone]" (translated)				
Color:	Cyan				
Type Specification:	Zurich Condensed (6 point, Light, Upper Case)				
Note:	The grid system used for all maps is UTM. For information on composition of the grid note for sheets containing a grid zone junction, refer to sub-annex B.6 of the DPS AC.				
Reference #:	203152	Name:	Projection Note (translated)	Type:	Text

Symbol Graphic Reference: "PROJECTION...TRANSVERSE MERCATOR" (translated)
 Color: Black
 Type Specification: Zurich Condensed (6 point, Light, Upper Case)
 Note: The projection for all maps is Transverse Mercator.

Reference #: 203153 Name: Vertical Datum Note (translated) Type: Text

Symbol Graphic Reference: "VERTICAL DATUM...MEAN SEA LEVEL" (translated)
 Color: Black
 Type Specification: Zurich Condensed (6 point, Light, Upper Case)
 Note: The vertical datum for all maps is Mean Sea Level.

Reference #: 203154 Name: Horizontal Datum Note (translated) Type: Text

Symbol Graphic Reference: "HORIZONTAL DATUM...[horizontalDatum]" (translated)
 Color: Black
 Type Specification: Zurich Condensed (6 point, Light, Upper Case)
 Note: The horizontal datum for all maps is the World Geodetic System 1984.

Glossary

DPS AC Section: 3.6

Metadata Elements

Name:	Substitution Value:	Description:
Glossary Terms and Definitions	termDefinition	The terms and definitions to be displayed in the glossary.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0039	Foreign Names/Terms Present	(Sheet contains foreign names or generic terms requiring translation.)

Glossary (Single Language)

Style Sheet References:

Version Notes:

Annex B.1: Arrangement Single Language

A glossary consists of a Title followed by one or more Glossary Entries, as needed. Refer to DPS AC section 3.6 for further details on the contents of a glossary.

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 203155 Name: Glossary Title Type: Text

Symbol Graphic Reference: "GLOSSARY"
 Color: Black
 Type Specification: Zurich Condensed (8 point, Medium, Upper Case)

Reference #: 201202 Name: Glossary Entry Type: Text

Symbol Graphic Reference: "[termDefinition.term]...[termDefinition.definition]"
 Color: Black
 Type Specification: Zurich Condensed (6 point, Light, Mixed Case)

Glossary (Multiple Language)

Style Sheet References:

Version Notes:

Annex B.2: Arrangement Multi-Language

A glossary consists of a Title followed by one or more Glossary Entries, as needed. Refer to DPS AC section 3.6 for further details on the contents of a glossary.

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #: 203155	Name: Glossary Title	Type: Text
Symbol Graphic Reference:	"GLOSSARY"	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Medium, Upper Case)	
Reference #: 203156	Name: Glossary Title (translated)	Type: Text
Symbol Graphic Reference:	"GLOSSARY" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Light, Upper Case)	
Reference #: 201202	Name: Glossary Entry	Type: Text
Symbol Graphic Reference:	"[termDefinition.term]...[termDefinition.definition]"	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Light, Mixed Case)	

Graticule - Primary Map

DPS AC Section: 3.3.1.3

Metadata Elements

Name:	Substitution Value:	Description:
Primary Map Extent	primaryMapExtent	The geographic extent of the primary map.
Projection	projection	The projection to be used for map sheets.
Ellipsoid	ellipsoid	The ellipsoid to be used for the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

For geodetic reference information, refer to DPS AC section 3.3.1.

For more detail about the NGA display standards for grids and graticules, refer to:
 NGA.STND.0037_2.0_GRIDS
 NGA STANDARDIZATION DOCUMENT
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

For more detail about the mathematic properties of the standard grid systems, refer to:
 NGA.RP.0002_2.0_UTMUPS
 NGA STANDARDIZATION DOCUMENT
 The Universal Grids Based on the Transverse Mercator and Polar Stereographic Map-Projections (2013-09-07) Version 2.0

Grid - Primary Map

DPS AC Section: 3.3.1.3

Metadata Elements

Name:	Substitution Value:	Description:
Grid System	gridSystem	The grid system to be used for map sheets.
Primary Map Extent	primaryMapExtent	The geographic extent of the primary map.
Primary Map Major Grid Zone	primaryMapMajorGridZone	The major grid zone(s) to be shown on the primary map.
100,000m Grid Square Identifier	100kGridSquare	The 100,000m grid square identifier(s) overlapping this map extent.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

For geodetic reference information, refer to DPS AC section 3.3.1.

For more detail about the NGA display standards for grids and graticules, refer to:
 NGA.STND.0037_2.0_GRIDS
 NGA STANDARDIZATION DOCUMENT
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

For more detail about the mathematic properties of the standard grid systems, refer to:
 NGA.RP.0002_2.0_UTMUPS
 NGA STANDARDIZATION DOCUMENT
 The Universal Grids Based on the Transverse Mercator and Polar Stereographic Map-Projections (2013-09-07) Version 2.0

For information on portrayal of grid zone junctions, refer to sub-annex B.6 of the DPS AC.

Grid Reference Box

DPS AC Section: 3.3.1.2

Metadata Elements

Name:	Substitution Value:	Description:
Primary Map Major Grid Zone Designation	primaryMapMajorGridZoneDesignation	The full designation, including latitude band, of the major grid zone(s) to be shown on the primary map.
100,000m Grid Square Identifier	100kGridSquare	The 100,000m grid square identifier(s) overlapping this map extent.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Grid Reference Box (Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #:	Name:	Type:
203101	Grid Reference Box Graphic	Graphic

Symbol Graphic Reference: (none)

Note: Refer to the following document for details on the construction of the grid reference box:

NGA.STND.0037_2.0_GRIDS
 NGA STANDARDIZATION DOCUMENT
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

Grid Reference Box (Multiple Language)

Style Sheet References:

Version Notes:

Annex B.2: Arrangement Multi-Language

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #:	Name:	Type:
203102	Grid Reference Box Graphic (Translated)	Graphic

Symbol Graphic Reference: (none)

Note: Refer to the following document for details on the construction of the grid reference box:

NGA.STND.0037_2.0_GRIDS
 NGA STANDARDIZATION DOCUMENT
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

Identification Box - Upper and Lower

DPS AC Section: 3.1.3

Metadata Elements

Name:	Substitution Value:	Description:
Edition Number	editionNumber	The edition number of the map sheet.
Series Number	seriesNumber	The series number identifying a map series.
Sheet Number	sheetNumber	The sheet number identifying a map sheet.
Producing Agency Code	producingAgencyCode	The abbreviation for the producing agency.
JOG Series Version	JOGseriesVersion	The series version of JOG being produced (1501 or 1501-Air).

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Identification Box (1501)

Style Sheet References:

Version Notes:

Annex B.1: Arrangement Single Language

The identification box is portrayed in the upper left and lower left corners of the margin.

Version Rules

Reference #:	Description:	Criteria:
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Components

Reference #:	Name:	Type:
203159	Series Label	Text

Symbol Graphic Reference: "SERIES"
 Color: Black
 Type Specification: Zurich Condensed (10 point, Medium, Upper Case)

Reference #:	Name:	Type:
203160	Series Number JOG-Ground	Text

Symbol Graphic Reference: "1501"
 Color: Black
 Type Specification: Zurich Condensed (10 point, Medium, Upper Case)

Reference #: 203161 Name: Sheet Label Type: Text
 Symbol Graphic Reference: "SHEET"
 Color: Black
 Type Specification: Zurich Condensed (10 point, Medium, Upper Case)

Reference #: 203162 Name: Sheet Number Type: Text
 Symbol Graphic Reference: "[sheetNumber]"
 Color: Black
 Type Specification: Zurich Condensed (10 point, Medium, Upper Case)

Reference #: 203157 Name: Edition Label Type: Text
 Symbol Graphic Reference: "EDITION"
 Color: Black
 Type Specification: Zurich Condensed (10 point, Medium, Upper Case)

Reference #: 203158 Name: Edition Number Type: Text
 Symbol Graphic Reference: "[editionNumber]-[producingAgencyCode]"
 Color: Black
 Type Specification: Zurich Condensed (10 point, Medium, Upper Case)

Identification Box (1501-Air)

Style Sheet References:

Version Notes:

Annex B.1: Arrangement Single Language

The identification box is portrayed in the upper left and lower left corners of the margin.

Version Rules

Reference #:	Description:	Criteria:
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #: 203159 Name: Series Label Type: Text
 Symbol Graphic Reference: "SERIES"
 Color: Black
 Type Specification: Zurich Condensed (10 point, Medium, Upper Case)

Reference #: 203163 Name: Series Number JOG-Air Type: Text
 Symbol Graphic Reference: "1501-AIR"
 Color: Black
 Type Specification: Zurich Condensed (10 point, Medium, Upper Case)

Reference #: 203161 Name: Sheet Label Type: Text
 Symbol Graphic Reference: "SHEET"
 Color: Black
 Type Specification: Zurich Condensed (10 point, Medium, Upper Case)

Reference #: 203162 Name: Sheet Number Type: Text
 Symbol Graphic Reference: "[sheetNumber]"
 Color: Black
 Type Specification: Zurich Condensed (10 point, Medium, Upper Case)

Reference #: 203157 Name: Edition Label Type: Text
 Symbol Graphic Reference: "EDITION"
 Color: Black
 Type Specification: Zurich Condensed (10 point, Medium, Upper Case)

Reference #: 203158	Name: Edition Number	Type: Text
Symbol Graphic Reference:	"[editionNumber]-[producingAgencyCode]"	
Color:	Black	
Type Specification:	Zurich Condensed (10 point, Medium, Upper Case)	

Location Diagram

DPS AC Section: 3.3.4

Metadata Elements

Name:	Substitution Value:	Description:
Sheet Line System	sheetLineSystem	The sheet line system used to define the borders of the map sheet.
Sheet Extent	sheetGeographicExtent	The geographic extent of the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.
ONC Index	ONCindex	The ONC index sheet(s) overlapping the Location Diagram extent.
WAC Index	WACindex	The WAC index sheet(s) overlapping the Location Diagram extent.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Location Diagram (Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 203121	Name: Location Diagram Title	Type: Text
Symbol Graphic Reference:	"LOCATION DIAGRAM"	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Medium, Upper Case)	

Reference #: 203122	Name: Location Diagram Graphic	Type: Map
Note:	Refer to DPS AC section 3.3.4 for detailed instructions and specifications on the construction of the location diagram.	

Reference #: 203123	Name: For Index Purposes Only Note	Type: Text
Symbol Graphic Reference:	"For index purposes only - not necessarily an indication of published maps."	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Mixed Case)	

Location Diagram (Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #: 203121	Name: Location Diagram Title	Type: Text
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Symbol Graphic Reference: "LOCATION DIAGRAM"
 Color: Black
 Type Specification: Zurich Condensed (8 point, Medium, Upper Case)

Reference #: 203124 Name: Location Diagram Title (Translated) Type: Text
 Symbol Graphic Reference: "LOCATION DIAGRAM" (translated)
 Color: Black
 Type Specification: Zurich Condensed (8 point, Light, Upper Case)

Reference #: 203122 Name: Location Diagram Graphic Type: Map
 Note: Refer to DPS AC section 3.3.4 for detailed instructions and specifications on the construction of the location diagram.

Reference #: 203123 Name: For Index Purposes Only Note Type: Text
 Symbol Graphic Reference: "For index purposes only - not necessarily an indication of published maps."
 Color: Black
 Type Specification: Zurich Condensed (6 point, Medium, Mixed Case)

Reference #: 203125 Name: For Index Purposes Only Note (Translated) Type: Text
 Symbol Graphic Reference: "For index purposes only - not necessarily an indication of published maps." (translated)
 Color: Black
 Type Specification: Zurich Condensed (6 point, Light, Mixed Case)

Magnetic Declination Note (1501-GROUND only)

DPS AC Section: 3.3.1.4.1

Metadata Elements

Name:	Substitution Value:	Description:
Epoch Date	epochDate	The standard epoch year (divisible by five, such as 2010, 2015, etc.) of latest isogonic data.
JOG Series Version	JOGseriesVersion	The series version of JOG being produced (1501 or 1501-Air).
Display Language	displayLanguage	The language(s) of presentation of the map sheet.
Magnetic Declination Info	magneticDeclinationInfo	The magnetic declination from true north across the map.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Magnetic Declination Note (Declination Constant, Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

Refer to DPS AC Section 3.3.1.4.1 for more detailed instructions.

For more detail about the NGA display standards for grids and graticules, refer to:
 NGA.STND.0037_2.0_GRIDS
 NGA STANDARDIZATION DOCUMENT
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0047	Declination Constant	[magneticDeclinationInfo] is not variable

Components

Reference #: 203142 Name: Declination constant Type: Text
 Symbol Graphic Reference: "MAGNETIC DECLINATION FOR [epochDate] IS [magneticDeclinationInfo] OVER THE ENTIRE AREA"
 Color: Blue072
 Type Specification: Zurich Condensed (8 point, Medium, Upper Case)

Magnetic Declination Note (Declination Variable, Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

Refer to DPS AC Section 3.3.1.4.1 for more detailed instructions.

For more detail about the NGA display standards for grids and graticules, refer to:
 NGA.STND.0037_2.0_GRIDS
 NGA STANDARDIZATION DOCUMENT
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0048	Declination Variable	[magneticDeclinationInfo] is variable

Components

Reference #:	203143	Name:	Declination variable	Type:	Text
Symbol Graphic Reference:	"[epochDate] MAGNETIC DECLINATION FROM TRUE NORTH VARIES FROM [magneticDeclinationInfo] FOR THE CENTER OF THE WEST EDGE TO [magneticDeclinationInfo] FOR THE CENTER OF THE EAST EDGE."				
Color:	Blue072				
Type Specification:	Zurich Condensed (8 point, Medium, Upper Case)				

Magnetic Declination Note (Declination Constant, Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

Refer to DPS AC Section 3.3.1.4.1 for more detailed instructions.

For more detail about the NGA display standards for grids and graticules, refer to:
 NGA.STND.0037_2.0_GRIDS
 NGA STANDARDIZATION DOCUMENT
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0047	Declination Constant	[magneticDeclinationInfo] is not variable

Components

Reference #:	203142	Name:	Declination constant	Type:	Text
Symbol Graphic Reference:	"MAGNETIC DECLINATION FOR [epochDate] IS [magneticDeclinationInfo] OVER THE ENTIRE AREA"				
Color:	Blue072				
Type Specification:	Zurich Condensed (8 point, Medium, Upper Case)				
Reference #:	203144	Name:	Declination constant (translated)	Type:	Text
Symbol Graphic Reference:	"MAGNETIC DECLINATION FOR [epochDate] IS [magneticDeclinationInfo] OVER THE ENTIRE AREA" (translated)				
Color:	Blue072				
Type Specification:	Zurich Condensed (8 point, Light, Upper Case)				

Magnetic Declination Note (Declination Variable, Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

Refer to DPS AC Section 3.3.1.4.1 for more detailed instructions.

For more detail about the NGA display standards for grids and graticules, refer to:
 NGA.STND.0037_2.0_GRIDS
 NGA STANDARDIZATION DOCUMENT
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0048	Declination Variable	[magneticDeclinationInfo] is variable

Components

Reference #: 203143	Name: Declination variable	Type: Text
Symbol Graphic Reference:	"[epochDate] MAGNETIC DECLINATION FROM TRUE NORTH VARIES FROM [magneticDeclinationInfo] FOR THE CENTER OF THE WEST EDGE TO [magneticDeclinationInfo] FOR THE CENTER OF THE EAST EDGE."	
Color:	Blue072	
Type Specification:	Zurich Condensed (8 point, Medium, Upper Case)	
Reference #: 203145	Name: Declination variable (translated)	Type: Text
Symbol Graphic Reference:	"[epochDate] MAGNETIC DECLINATION FROM TRUE NORTH VARIES FROM [magneticDeclinationInfo] FOR THE CENTER OF THE WEST EDGE TO [magneticDeclinationInfo] FOR THE CENTER OF THE EAST EDGE." (translated)	
Color:	Blue072	
Type Specification:	Zurich Condensed (8 point, Light, Upper Case)	

Magnetic Variation Note (1501-AIR only)

DPS AC Section: 3.3.1.4.2

Metadata Elements

Name:	Substitution Value:	Description:
Epoch Date	epochDate	The standard epoch year (divisible by five, such as 2010, 2015, etc.) of latest isogonic data.
JOG Series Version	JOGseriesVersion	The series version of JOG being produced (1501 or 1501-Air).
Display Language	displayLanguage	The language(s) of presentation of the map sheet.
Magnetic Variation Info	magneticVariationInfo	The magnetic variation value (including annual rate of change) for the geographic extent of the map.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Magnetic Variation Note (Variation Constant, Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

Refer to DPS AC Section 3.3.1.4.2 for more detailed instructions.

For more detail about the NGA display standards for grids and graticules, refer to:
 NGA.STND.0037_2.0_GRIDS
 NGA STANDARDIZATION DOCUMENT
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0049	Variation Constant	[magneticVariationInfo] is not variable

Components

Reference #: 203192	Name: Variation constant	Type: Text
Symbol Graphic Reference:	"MAGNETIC VARIATION FOR [epochDate] IS APPROXIMATELY [magneticVariationInfo] OVER THE ENTIRE AREA (Annual rate of change [magneticVariationInfo])"	
Color:	Blue072	
Type Specification:	Zurich Condensed (8 point, Medium, Mixed Case)	

Magnetic Variation Note (Variation Variable, Single Language)

Style Sheet References:

Version Notes:

Annex B.1: Arrangement Single Language

Refer to DPS AC Section 3.3.1.4.2 for more detailed instructions.

For more detail about the NGA display standards for grids and graticules, refer to:
 NGA.STND.0037_2.0_GRIDS
 NGA STANDARDIZATION DOCUMENT
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0050	Variation Variable	[magneticVariationInfo] is variable

Components

Reference #:	203193	Name:	Variation variable	Type:	Text
Symbol Graphic Reference:			"LINES OF EQUAL MAGNETIC VARIATION FOR [epochDate] (Annual rate of change [magneticVariationInfo])"		
Color:			Blue072		
Type Specification:			Zurich Condensed (8 point, Medium, Mixed Case)		

Magnetic Variation Note (Variation Constant, Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

Refer to DPS AC Section 3.3.1.4.2 for more detailed instructions.

For more detail about the NGA display standards for grids and graticules, refer to:
 NGA.STND.0037_2.0_GRIDS
 NGA STANDARDIZATION DOCUMENT
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0049	Variation Constant	[magneticVariationInfo] is not variable

Components

Reference #:	203192	Name:	Variation constant	Type:	Text
Symbol Graphic Reference:			"MAGNETIC VARIATION FOR [epochDate] IS APPROXIMATELY [magneticVariationInfo] OVER THE ENTIRE AREA (Annual rate of change [magneticVariationInfo])"		
Color:			Blue072		
Type Specification:			Zurich Condensed (8 point, Medium, Mixed Case)		
Reference #:	203194	Name:	Variation constant (translated)	Type:	Text
Symbol Graphic Reference:			"MAGNETIC VARIATION FOR [epochDate] IS APPROXIMATELY [magneticVariationInfo] OVER THE ENTIRE AREA (Annual rate of change [magneticVariationInfo])" (translate)		
Color:			Blue072		
Type Specification:			Zurich Condensed (8 point, Light, Mixed Case)		

Magnetic Variation Note (Variation Variable, Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

Refer to DPS AC Section 3.3.1.4.2 for more detailed instructions.

For more detail about the NGA display standards for grids and graticules, refer to:
 NGA.STND.0037_2.0_GRIDS
 NGA STANDARDIZATION DOCUMENT
 UNIVERSAL GRIDS and GRID REFERENCE SYSTEMS (2013-07-19) Version 2.0

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

AC-0050 Variation Variable [magneticVariationInfo] is variable

Components

Reference #: 203193	Name: Variation variable	Type: Text
Symbol Graphic Reference:	"LINES OF EQUAL MAGNETIC VARIATION FOR [epochDate] (Annual rate of change [magneticVariationInfo])"	
Color:	Blue072	
Type Specification:	Zurich Condensed (8 point, Medium, Mixed Case)	

Reference #: 203195	Name: Variation variable (translated)	Type: Text
Symbol Graphic Reference:	"LINES OF EQUAL MAGNETIC VARIATION FOR [epochDate] (Annual rate of change [magneticVariationInfo])" (translated)	
Color:	Blue072	
Type Specification:	Zurich Condensed (8 point, Light, Mixed Case)	

Map Sheet Name

DPS AC Section: 3.1.1

Metadata Elements

Name:	Substitution Value:	Description:
Sheet Name	sheetName	The unique name of the map sheet.
Data Content - Countries Depicted	countriesShownOnSheet	The countries shown on the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Style Sheet References:

Version Notes:

Annex B.1: Arrangement Single Language (none)

Components

Reference #: 203166	Name: Sheet Name Note	Type: Text
Symbol Graphic Reference:	"[sheetName], [countriesShownOnSheet]"	
Color:	Black	
Type Specification:	Zurich Condensed (14 point, Medium, Upper Case)	

Maximum Elevation Figure (MEF) Box (1501-AIR only)

DPS AC Section: 3.8.2

Metadata Elements

Name:	Substitution Value:	Description:
Data Content - MEF maximum value	MEFmaximumValue	The maximum MEF value over the geographic extent of the map sheet.
JOG Series Version	JOGseriesVersion	The series version of JOG being produced (1501 or 1501-Air).
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Maximum Elevation Figure (MEF) Box (Single Language)

Style Sheet References:

Version Notes:

Annex B.1: Arrangement Single Language (none)

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 203167	Name: MEF Box Graphic	Type: Graphic
Symbol Graphic Reference:	(none)	

Note: Refer to DPS AC section 3.8.2 for detailed instructions and specifications on the content of the MEF box.

Maximum Elevation Figure (MEF) Box (Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #: 203168	Name: MEF Box Graphic (translated)	Type: Graphic
Symbol Graphic Reference:	(none)	

Note: Refer to DPS AC section 3.8.2 for detailed instructions and specifications on the content of the MEF box.

Miscellaneous Notes

DPS AC Section: 3.7

Metadata Elements

Name:	Substitution Value:	Description:
Miscellaneous Note Text	noteText	The text of the miscellaneous notes to appear on the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Miscellaneous Notes Box (Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

The Miscellaneous Notes Box consists of a series of standard, common and less common notes, as needed. Refer to DPS AC section 3.7.2 for the conditions and text of various less common notes.

When needed, the following Notes will be placed in the Miscellaneous Notes Box:

- Boundaries disclaimer note
- Railway gauge note

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 203172	Name: Miscellaneous Notes Box Title	Type: Text
Symbol Graphic Reference:	"NOTES"	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Medium, Upper Case)	

Reference #: 203170	Name: Standard Notes	Type: Text
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Symbol Graphic Reference:	"Caution: Not all communication and power distribution lines are shown. Power transmission cables (powerlines) are shown except within populated place tints. Other obstructions are shown if they are 46 meters above ground level. See caution note. Multiple vertical obstruction symbols are shown when there are two or more vertical obstructions within 1,400 meters (0.75 nautical miles) of each other or when vertical obstruction symbols overlap. A lane on this graphic is considered to be 2.5 meters (8.2 feet) wide. Road classification should be referred to with caution. Only through routes are classified in built-up areas."
Color:	Black
Type Specification:	Zurich Condensed (7 point, Medium, Mixed Case)
Note:	The first 3 notes shall be portrayed in Blue072 (aero blue) color. In 2nd note, change "46 meters" to "150 feet" on 1501-Air versions.

Reference #:	203171	Name:	Common and Less Common Note	Type:	Text
Symbol Graphic Reference:			"[noteText[...]]"		
Color:			Black		
Type Specification:			Zurich Condensed (7 point, Medium, Mixed Case)		
Note:	If any vertical obstruction caution note is present, it shall be portrayed in Blue072 (aero blue) color.				

Miscellaneous Notes Box (Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

The Miscellaneous Notes Box consists of a series of standard notes, common, and less common notes, as needed. Refer to DPS AC section 3.7.2 for the conditions and text of various less common notes.

When needed, the following Notes will be placed in the Miscellaneous Notes Box:

- Boundaries disclaimer note
- Railway gauge note

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #:	203172	Name:	Miscellaneous Notes Box Title	Type:	Text
Symbol Graphic Reference:			"NOTES"		
Color:			Black		
Type Specification:			Zurich Condensed (8 point, Medium, Upper Case)		
Reference #:	203173	Name:	Miscellaneous Notes Box Title (Translated)	Type:	Text
Symbol Graphic Reference:			"NOTES" (translated)		
Color:			Black		
Type Specification:			Zurich Condensed (8 point, Light, Upper Case)		
Reference #:	203170	Name:	Standard Notes	Type:	Text

Symbol Graphic Reference: "Caution: Not all communication and power distribution lines are shown.

Power transmission cables (powerlines) are shown except within populated place tints. Other obstructions are shown if they are 46 meters above ground level. See caution note.

Multiple vertical obstruction symbols are shown when there are two or more vertical obstructions within 1,400 meters (0.75 nautical miles) of each other or when vertical obstruction symbols overlap.

A lane on this graphic is considered to be 2.5 meters (8.2 feet) wide.

Road classification should be referred to with caution.

Only through routes are classified in built-up areas."

Color: Black

Type Specification: Zurich Condensed (7 point, Medium, Mixed Case)

Note: The first 3 notes shall be portrayed in Blue072 (aero blue) color. In 2nd note, change "46 meters" to "150 feet" on 1501-Air versions.

Reference #: 203174 **Name:** Standard Notes (Translated) **Type:** Text

Symbol Graphic Reference: "Caution: Not all communication and power distribution lines are shown.

Power transmission cables (powerlines) are shown except within populated place tints. Other obstructions are shown if they are 46 meters above ground level. See caution note.

Road classification should be referred to with caution.

A lane on this graphic is considered to be 2.5 meters (8.2 feet) wide.

Only through routes are classified in built-up areas." (translated)

Color: Black

Type Specification: Zurich Condensed (7 point, Light, Mixed Case)

Note: The first 2 notes shall be portrayed in Blue072 (aero blue) color. In 2nd note, change "46 meters" to "150 feet" on 1501-Air versions.

Reference #: 203171 **Name:** Common and Less Common Note **Type:** Text

Symbol Graphic Reference: "[noteText[...]]"

Color: Black

Type Specification: Zurich Condensed (7 point, Medium, Mixed Case)

Note: If any vertical obstruction caution note is present, it shall be portrayed in Blue072 (aero blue) color.

Reference #: 203175 **Name:** Common and Less Common Note [Translated] **Type:** Text

Symbol Graphic Reference: "[noteText[...]]" (translated)

Color: Black

Type Specification: Zurich Condensed (7 point, Light, Mixed Case)

Note: If any vertical obstruction caution note is present, it shall be portrayed in Blue072 (aero blue) color.

Names Disclaimer Note

DPS AC Section: 3.4.1.2

Metadata Elements

Name:	Substitution Value:	Description:
Data Content	dataContent	The data content represented on the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0016	Name Representation Not Authoritative	([dataContent] contains names that do not necessarily reflect the officially recognized political status or sovereignty of the areas concerned.)

Names Disclaimer Note (Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

When needed, this note will be placed in the Miscellaneous Notes Box, and will follow the type specification and color of other notes there.

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 203176	Name: Names Disclaimer Note	Type: Text
Symbol Graphic Reference:	"Geographic names or their spelling do not necessarily reflect recognition of the political status of an area by the United States Government."	
Color:	Black	
Type Specification:	Zurich Condensed (7 point, Medium, Mixed Case)	

Names Disclaimer Note (Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

When needed, this note will be placed in the Miscellaneous Notes Box, and will follow the type specification and color of other notes there.

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #: 203176	Name: Names Disclaimer Note	Type: Text
Symbol Graphic Reference:	"Geographic names or their spelling do not necessarily reflect recognition of the political status of an area by the United States Government."	
Color:	Black	
Type Specification:	Zurich Condensed (7 point, Medium, Mixed Case)	

Reference #: 203177	Name: Names Disclaimer Note (Translated)	Type: Text
Symbol Graphic Reference:	"Geographic names or their spelling do not necessarily reflect recognition of the political status of an area by the United States Government." (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (7 point, Light, Mixed Case)	

Producer Seal

DPS AC Section: 3.1.5

Metadata Elements

Name:	Substitution Value:	Description:
Producing Agency	producingAgency	The agency responsible for producing the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

(none)

Components

Reference #: 200007	Name: Producer Seal Graphic	Type: Graphic
Symbol Graphic Reference:	(Producer Seal graphic filename)	

Product Name and Series Identification

DPS AC Section: 3.1.2

Metadata Elements

Name:	Substitution Value:	Description:
JOG Series Version	JOGseriesVersion	The series version of JOG being produced (1501 or 1501-Air).

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Product Name and Series Identification (1501-Air)

Style Sheet References:	Version Notes:
Annex B.1: Arrangement Single Language	(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #: 203165	Name: Product Name and Series Note (1501-Air)	Type: Text
Symbol Graphic Reference:	"JOINT OPERATIONS GRAPHIC (AIR)"	
Color:	Black	
Type Specification:	Zurich Condensed (20 point, Bold, Upper Case)	

Product Name and Series Identification (1501)

Style Sheet References:	Version Notes:
Annex B.1: Arrangement Single Language	(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Components

Reference #: 203164	Name: Product Name and Series Note (1501)	Type: Text
Symbol Graphic Reference:	"JOINT OPERATIONS GRAPHIC (GROUND)"	
Color:	Black	
Type Specification:	Zurich Condensed (20 point, Bold, Upper Case)	

Publication Note and Credit Listings

DPS AC Section: 3.1.6.1

Metadata Elements

Name:	Substitution Value:	Description:
Producing Agency	producingAgency	The agency responsible for producing the map sheet.
Sheet Production Date	productionDate	The production date (YYYY) of the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Publication Note (Single Language)

Style Sheet References:	Version Notes:
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Annex B.1: Arrangement Single Language

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #:	Name:	Type:
200008	Publication Note	Text
Symbol Graphic Reference:	"Prepared and published in [productionDate] by [producingAgency]"	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Medium, Mixed Case)	

Publication Note (Multiple Language)

Style Sheet References:

Version Notes:

Annex B.2: Arrangement Multi-Language

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #:	Name:	Type:
200008	Publication Note	Text
Symbol Graphic Reference:	"Prepared and published in [productionDate] by [producingAgency]"	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Medium, Mixed Case)	
Reference #:	Name:	Type:
202001	Publication Note (Translated)	Text
Symbol Graphic Reference:	"Prepared and published in [productionDate] by [producingAgency]" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Light, Mixed Case)	

Restricted Dissemination/LIMITED DISTRIBUTION Note

DPS AC Section: 3.2.1.2

Metadata Elements

Name:	Substitution Value:	Description:
Limited Distribution Note Required	sheetLimDisNoteRequired	Whether or not a limited distribution note is required for this map sheet.
Limited Distribution Note Text	limDisNoteText	The text of the Limited Distribution Note as required by supplementary instructions.
Special Handling Information	sheetSpecialHandlingInfo	Any security caveats or special handling instructions related to the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0025	Limited Distribution	[sheetLimDisNoteRequired] = TRUE

Restricted Dissemination Marking (No Special Handling, Single Language)

Style Sheet References:

Version Notes:

Annex B.1: Arrangement Single Language

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0023	No Special Handling	[sheetSpecialHandlingInfo] Is Null
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 200311	Name: Limited Distribution Heading	Type: Text
Symbol Graphic Reference:	"LIMITED DISTRIBUTION"	
Color:	Dk-Brown202	
Type Specification:	Zurich Condensed (14 point, Bold, Upper Case)	
Reference #: 200312	Name: Limited Distribution Note	Type: Text
Symbol Graphic Reference:	"[limDisNoteText]"	
Color:	Dk-Brown202	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	

Restricted Dissemination Marking (Special Handling, Single Language)

Style Sheet References:

Version Notes:

Annex B.1: Arrangement Single Language

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0033	Special Handling	[sheetSpecialHandlingInfo] Is Not Null
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #: 200311	Name: Limited Distribution Heading	Type: Text
Symbol Graphic Reference:	"LIMITED DISTRIBUTION"	
Color:	Dk-Brown202	
Type Specification:	Zurich Condensed (14 point, Bold, Upper Case)	
Reference #: 200312	Name: Limited Distribution Note	Type: Text
Symbol Graphic Reference:	"[limDisNoteText]"	
Color:	Dk-Brown202	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	
Reference #: 200212	Name: Caveat/Special Handling Note	Type: Text
Symbol Graphic Reference:	"[sheetSpecialHandlingInfo]"	
Color:	Dk-Brown202	
Type Specification:	Zurich Condensed (10 point, Bold, Upper Case)	

Restricted Dissemination Marking (Multiple Language)

Style Sheet References:

Version Notes:

Annex B.2: Arrangement Multi-Language

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #: 200311	Name: Limited Distribution Heading	Type: Text
Symbol Graphic Reference:	"LIMITED DISTRIBUTION"	
Color:	Dk-Brown202	
Type Specification:	Zurich Condensed (14 point, Bold, Upper Case)	
Reference #: 200313	Name: Limited Distribution Heading (translated)	Type: Text
Symbol Graphic Reference:	"LIMITED DISTRIBUTION" (translated)	
Color:	Dk-Brown202	
Type Specification:	Zurich Condensed (14 point, Medium, Upper Case)	

Reference #: 200312	Name: Limited Distribution Note	Type: Text
Symbol Graphic Reference:	"[limDisNoteText]"	
Color:	Dk-Brown202	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	

Reference #: 200314	Name: Limited Distribution Note (translated)	Type: Text
Symbol Graphic Reference:	"[limDisNoteText]" (translated)	
Color:	Dk-Brown202	
Type Specification:	Zurich Condensed (6 point, Light, Upper Case)	

Road and Railway Objectives (1501-GROUND only)

DPS AC Section: 3.9

Metadata Elements

Name:	Substitution Value:	Description:
Data Content	dataContent	The data content represented on the map sheet.
JOG Series Version	JOGseriesVersion	The series version of JOG being produced (1501 or 1501-Air).

Annotation Rules

Reference #:	Description:	Criteria:
AC-0018	Lines of transportation present	([dataContent] contains transportation lines.)
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

Refer to DPS AC section 3.9 for detailed instructions on the display of distant road/railway objectives.

Scale Notes

DPS AC Section: 3.3.2.1

Metadata Elements

Name:	Substitution Value:	Description:
Sheet Scale	displayScale	The scale (representative fraction) of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Scale Notes (1:250K, Lower Left)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

This scale note is placed in the lower left margin above the sheet name.

Version Rules

Reference #:	Description:	Criteria:
AC-0045	1:250K	[displayScale.equivalentScale] = 1:250,000

Components

Reference #: 203178	Name: Scale Note	Type: Text
Symbol Graphic Reference:	"SCALE 1:250,000"	
Color:	Black	
Type Specification:	Zurich Condensed (14 point, Medium, Mixed Case)	

Scale Notes (1:250K, Lower Center)

Style Sheet References:

Version Notes:

Annex B.1: Arrangement Single Language

This scale note is placed in the lower center margin above the bar scale.

Version Rules

Reference #:	Description:	Criteria:
AC-0045	1:250K	$[\text{displayScale.equivalentScale}] = 1:250,000$

Components

Reference #:	Name:	Type:
203191	Scale Note	Text
Symbol Graphic Reference:	"SCALE 1:250,000"	
Color:	Black	
Type Specification:	Zurich Condensed (10 point, Medium, Mixed Case)	

Scale Verification Note

DPS AC Section: 3.3.2.3

Metadata Elements

Name:	Substitution Value:	Description:
Display Language	displayLanguage	The language(s) of presentation of the map sheet.
Sheet Scale	displayScale	The scale (representative fraction) of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Scale Verification Note (1:250K, Single Language)

Style Sheet References:

Version Notes:

Annex B.1: Arrangement Single Language

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	$[\text{displayLanguage.count}] = 1$
AC-0045	1:250K	$[\text{displayScale.equivalentScale}] = 1:250,000$

Components

Reference #:	Name:	Type:
203179	Scale Verification Note (1:250K)	Text
Symbol Graphic Reference:	"TO ENSURE THAT THIS MAP WAS PRINTED AT THE CORRECT SCALE, 100,000 METERS (10 UTM GRID SQUARES) SHOULD MEASURE EXACTLY 40 CENTIMETERS (15.75 INCHES)."	
Color:	Black	
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)	

Scale Verification Note (1:250K, Multiple Language)

Style Sheet References:

Version Notes:

Annex B.2: Arrangement Multi-Language

(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	$[\text{displayLanguage.count}] > 1$
AC-0045	1:250K	$[\text{displayScale.equivalentScale}] = 1:250,000$

Components

Reference #:	Name:	Type:
203179	Scale Verification Note (1:250K)	Text

Symbol Graphic Reference:	"TO ENSURE THAT THIS MAP WAS PRINTED AT THE CORRECT SCALE, 100,000 METERS (10 UTM GRID SQUARES) SHOULD MEASURE EXACTLY 40 CENTIMETERS (15.75 INCHES)."
Color:	Black
Type Specification:	Zurich Condensed (6 point, Medium, Upper Case)

Reference #: 203180	Name: Scale Verification Note (1:250K) (Translated)	Type: Text
---------------------	--	------------

Symbol Graphic Reference:	"TO ENSURE THAT THIS MAP WAS PRINTED AT THE CORRECT SCALE, 100,000 METERS (10 UTM GRID SQUARES) SHOULD MEASURE EXACTLY 40 CENTIMETERS (15.75 INCHES)." (translated)
Color:	Black
Type Specification:	Zurich Condensed (6 point, Light, Upper Case)

Symbol Legend

DPS AC Section: 3.5

Metadata Elements

Name:	Substitution Value:	Description:
Data Content - Maximum Elevation	dataContent.maxElevation	The maximum elevation value over the geographic extent of the map sheet.
Display Language	displayLanguage	The language(s) of presentation of the map sheet.
JOG Series Version	JOGseriesVersion	The series version of JOG being produced (1501 or 1501-Air).

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Symbol Legend (1501, Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

Refer to DPS AC Annex B.4 for details on the content of the JOG-Ground symbol legend.

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Components

Reference #: 203181	Name: Legend Title	Type: Text
Symbol Graphic Reference:	"LEGEND"	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Medium, Upper Case)	

Reference #: 203182	Name: Legend Graphic (JOG-Ground)	Type: Graphic
---------------------	-----------------------------------	---------------

Note: Refer to DPS AC section 3.5 and Annex B.4 for detailed instructions and specifications on the construction of the JOG-Ground legend.

Symbol Legend (1501, Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

Refer to DPS AC Annex B.4 for details on the content of the JOG-Ground symbol legend.

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Components

Reference #: 203181	Name: Legend Title	Type: Text
---------------------	--------------------	------------

Symbol Graphic Reference:	"LEGEND"
Color:	Black
Type Specification:	Zurich Condensed (8 point, Medium, Upper Case)

Reference #: 203183	Name: Legend Title (Translated)	Type: Text
Symbol Graphic Reference:	"LEGEND" (Translated)	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Light, Upper Case)	

Reference #: 203182	Name: Legend Graphic (JOG-Ground)	Type: Graphic
---------------------	-----------------------------------	---------------

Note: Refer to DPS AC section 3.5 and Annex B.4 for detailed instructions and specifications on the construction of the JOG-Ground legend.

Symbol Legend (1501-Air, Single Language)

Style Sheet References:

Version Notes:

Annex B.1: Arrangement Single Language

Refer to DPS AC Annex B.3 for details on the content of the JOG-Air symbol legend.

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #: 203181	Name: Legend Title	Type: Text
Symbol Graphic Reference:	"LEGEND"	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Medium, Upper Case)	

Reference #: 203184	Name: Legend Graphic (JOG-Air)	Type: Graphic
---------------------	--------------------------------	---------------

Note: Refer to DPS AC section 3.5 and Annex B.3 for detailed instructions and specifications on the construction of the JOG-Air legend.

Symbol Legend (1501-Air, Multiple Language)

Style Sheet References:

Version Notes:

Annex B.2: Arrangement Multi-Language

Refer to DPS AC Annex B.3 for details on the content of the JOG-Air symbol legend.

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #: 203181	Name: Legend Title	Type: Text
Symbol Graphic Reference:	"LEGEND"	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Medium, Upper Case)	

Reference #: 203183	Name: Legend Title (Translated)	Type: Text
Symbol Graphic Reference:	"LEGEND" (Translated)	
Color:	Black	
Type Specification:	Zurich Condensed (8 point, Light, Upper Case)	

Reference #: 203184	Name: Legend Graphic (JOG-Air)	Type: Graphic
---------------------	--------------------------------	---------------

Note: Refer to DPS AC section 3.5 and Annex B.3 for detailed instructions and specifications on the construction of the JOG-Air legend.

Unit of Elevation Note

DPS AC Section: 3.3.3.1

Metadata Elements

Name:	Substitution Value:	Description:
Display Language	displayLanguage	The language(s) of presentation of the map sheet.
JOG Series Version	JOGseriesVersion	The series version of JOG being produced (1501 or 1501-Air).

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Unit of Elevation Note (1501, Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

The unit of elevation note is portrayed twice below the south neatline.

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Components

Reference #: 203185	Name: Unit of Elevation Note (JOG-Ground)	Type: Text
Symbol Graphic Reference:	"ELEVATIONS IN METERS"	
Color:	Black	
Type Specification:	Zurich Condensed (10 point, Bold, Upper Case)	

Unit of Elevation Note (1501, Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

The unit of elevation note is portrayed twice below the south neatline.

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0046	JOG-Ground	[JOGseriesVersion] is '1501'

Components

Reference #: 203185	Name: Unit of Elevation Note (JOG-Ground)	Type: Text
Symbol Graphic Reference:	"ELEVATIONS IN METERS"	
Color:	Black	
Type Specification:	Zurich Condensed (10 point, Bold, Upper Case)	
Reference #: 203186	Name: Unit of Elevation Note (JOG-Ground) (Translated)	Type: Text
Symbol Graphic Reference:	"ELEVATIONS IN METERS" (translated)	
Color:	Black	
Type Specification:	Zurich Condensed (10 point, Medium, Upper Case)	

Unit of Elevation Note (1501-Air, Single Language)

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

The unit of elevation note is portrayed twice below the south neatline.

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #:	203187	Name:	Unit of Elevation Note (JOG-Air)	Type:	Text
Symbol Graphic Reference:			"ELEVATIONS IN FEET"		
Color:			Black		
Type Specification:			Zurich Condensed (10 point, Bold, Upper Case)		

Unit of Elevation Note (1501-Air, Multiple Language)

Style Sheet References:

Annex B.2: Arrangement Multi-Language

Version Notes:

The unit of elevation note is portrayed twice below the south neatline.

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1
AC-0017	JOG-Air	[JOGseriesVersion] is '1501-Air'

Components

Reference #:	203187	Name:	Unit of Elevation Note (JOG-Air)	Type:	Text
Symbol Graphic Reference:			"ELEVATIONS IN FEET"		
Color:			Black		
Type Specification:			Zurich Condensed (10 point, Bold, Upper Case)		

Reference #:	203188	Name:	Unit of Elevation Note (JOG-Air) (Translated)	Type:	Text
Symbol Graphic Reference:			"ELEVATIONS IN FEET" (translated)		
Color:			Black		
Type Specification:			Zurich Condensed (10 point, Medium, Upper Case)		

Users Note

DPS AC Section: 3.1.6.2

Metadata Elements

Name:	Substitution Value:	Description:
Point of Contact	pointOfContact	The point of contact for the map sheet.
Users Note Text	usersNoteText	The text of the Users Note as required by supplementary instructions.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Style Sheet References:

Annex B.1: Arrangement Single Language

Version Notes:

(none)

Components

Reference #:	200009	Name:	Users Note	Type:	Text
Symbol Graphic Reference:			"[usersNoteText]"		
Color:			Black		
Type Specification:			Zurich Condensed (6 point, Light, Upper Case)		

Vertical Obstruction Caution Note Box

DPS AC Section: 3.8.3

Metadata Elements

Name:	Substitution Value:	Description:
Display Language	displayLanguage	The language(s) of presentation of the map sheet.

Annotation Rules

Reference #:	Description:	Criteria:
AC-0001	Always Include	TRUE

Vertical Obstruction Caution Note Box (Single Language)

Style Sheet References:	Version Notes:
Annex B.1: Arrangement Single Language	(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0002	Single-language	[displayLanguage.count] = 1

Components

Reference #:	Name:	Type:
203189	VO Caution Box Graphic	Graphic

Note: Refer to DPS AC section 3.8.3 for detailed instructions and specifications on the content of the VO caution note box.

Vertical Obstruction Caution Note Box (Multiple Language)

Style Sheet References:	Version Notes:
Annex B.2: Arrangement Multi-Language	(none)

Version Rules

Reference #:	Description:	Criteria:
AC-0003	Multiple-language	[displayLanguage.count] > 1

Components

Reference #:	Name:	Type:
203190	VO Caution Box Graphic (translated)	Graphic

Note: Refer to DPS AC section 3.8.3 for detailed instructions and specifications on the content of the VO caution note box.

Annex B - Style Sheets

This annex presents the graphic illustration and design of annotation elements and their locations on the map. Included in Annex B are two style sheets (B.1 & B.2), and four subsections (B.3-B.6) which provide more detailed versioning and information related to certain annotation elements.

The following sections are included in Annex B:

- B.1 – 1:250,000 Scale Joint Operations Graphics Style Sheet, “Arrangement single language” (attached). Portrays the normal size and positioning of margin elements without a translation requirement
- B.2 – 1:250,000 Scale Joint Operations Graphics Style Sheet, “Arrangement multi-language” (attached). Portrays the normal size positioning of margin elements with a translation requirement.
- B.3 – Master Legend – Air. Illustrates the design and composition of a standard symbol legend to be used on a 1501A (JOG- Air).
- B.4 – Master Legend – Ground. Illustrates the design and composition of a standard symbol legend to be used on a 1501 (JOG- Ground).
- B.5 – Air Warning Notes. Provides examples and specific portrayal information of Air Warning Notes (JOG-AIR only).
- B.6 – Grid Zone Junctions. Provides specific portrayal and labeling information for when a major grid junction falls within the sheet limits.

NOTE - The 2 style sheets are attached within this document. Click on the paper clip icon in the left panel to view.

B.3 - JOG 1501A MASTER LEGEND - AIR

POPULATED PLACES

Small populated place; Built-up area; Settlement

Shantytown; Not intact

Populated place classification:

First class CHICAGO

Second class BIRMINGHAM

Third class Novi

Fourth class Watertown

Fifth class Ortonville

ROADS

All weather, hard surface:

Divided highway; Interchange

>=4 lanes; 2-3 lanes; 1 lane

All weather, loose surface:

>=4 lanes; 2-3 lanes; 1 lane

Not intact: Divided; Not divided

Fair weather road/street; Cart track; Trail

Route markers:

International; National motorway; National; Local

RAILWAYS

Standard/Broad gauge >=1.44m (4'8.5")

Narrow gauge <1.44m (4'8.5")

Electrified (standard gauge); Station

BOUNDARIES

International; First-order administrative

Conservation area; Military installation

CULTURAL FEATURES

Building:

Intact; Not intact

Prison

Christian; Islam; Judaism; School; Diplomatic

Pagoda; Stupa; Temple; Hospital; Health station

Fortified building; Castle; Checkpoint; Monument; Ruins

Cemetery:

Christian; Islam; Judaism; Buddhism; Shinto; Unknown

Tower:

Comm.; Non-comm.; Water; Water intake; Cooling

Lighthouse; Windmill; Wind turbine; Crane

Power substation; Storage tank; Extraction mine: Intact; Not intact

Flare pipe; Smokestack; Non-water well; Ski jump

UNESCO World Heritage Site; Sports ground

Facility

Refinery

Tunnel: Road; Railway

Bridge: Pedestrian; Road; Railway

Wall; Fence; Lock; Dam: Hard; Loose

Pipeline:

Surface

Underground

Elevated

Water

Non-water

HYDROGRAPHIC FEATURES

River:

125m wide or more

Less than 125m wide

Disappearing; Dissipating

Natural pool

Water well

Ditch

Inland waterbody:

Natural shoreline

Manmade shoreline

Cistern; Underground aqueduct with qanats; Salt evaporator

Rice field; Land subject to inundation; Bog/Marsh

Swamp:

Other; Nipa/Palm; Mangrove

VEGETATION FEATURES

Forest; Scattered trees; Row of trees

Tropical grassland; Orchard; Vineyard

HYPSOGRAPHIC FEATURES

Spot elevation: Normal; Critical

Survey point: Geodetic; Benchmark

HIGHEST KNOWN elevation is **2257** located at the following coordinates:

Geographic 25°38'N, 71°12'E

Grid YP2135

Cave mouth; Rock formation; Mountain pass

Cut line; Fill; Levee/Dyke; Steep terrain face

Soil Surface Region:

Distorted surface; Gravel/Moraine; Sand

For sheets in the United States, see JOG PC section 2.1.1.3 and the symbols below.

3.5.3 The gray tinted areas indicate margin data that is variable.

VERTICAL OBSTRUCTIONS (VO) (>=150 feet)
 Single; Multiple; Radio aid _____ 374 (361)
 374 - Elevation of obstruction top above sea level
 (361) - Height of obstruction top above ground level
 Wind farm; Wind turbine VO: Single; Multiple _____
 Cable/Linear VO: Long; Short _____

CABLES
 Power transmission line; Pylon VO _____
 Power distribution/communication line _____

AIRCRAFT FACILITIES (Military or Civil)
 Land aerodrome: _____
 TENGGAH WSAT/90 50 EDNA KCFV/58/s 725
 Runway pattern known AND length >=1500 feet _____
 Runway pattern unknown OR length < 1500 feet _____
 EDNA - Name
 KCFV - International Civil Aviation Organization [ICAO] code
 58 - Length of longest runway to nearest hundreds of feet
 s - Soft or unimproved surface
 u - Unknown surface
 725 - Elevation
 Water Aerodrome; Heliport/Helipad: Hospital; Non-hospital _____

NAVIGATIONAL AIDS (NAVAIDS)
 Non-Directional Radio Beacon (NDB); Distance Measuring Equipment (DME) _____
 VHF Omni Range (VOR); VOR with DME; NDB with DME _____
 Tactical Air Navigation Aid Beacon (TACAN); VOR with TACAN (VORTAC) _____
 VORTAC - NAVAID Type
 KEY WEST - NAVAID Name
 EYW 113 - Channel
 VORTAC KEY WEST EYW 113 CLOVIS CZQ 076 NDB-DME MIAMI
 Aerodrome beacon: Flashing; Fixed _____
 Maritime navigation light: Flashing; Fixed _____

CONTROLLED AIRSPACES
 Air Defense Identification Zone (ADIZ); Buffer Zone _____
 Military Operations Area (MOA)/Special Use Airspace (SUAS) _____

ADDITIONAL LEGEND SECTIONS ← (3.5.1)

Route markers:
 → National motorway; National; Local _____

COASTAL HYDROGRAPHIC FEATURES
 Light vessel; Offshore structure; Foreshore _____
 Exposed feature: Rock; Wreck; Reef _____ *
 Shoreline construction _____

FROZEN REGION FEATURES
 Ice cliff; Ice peak: Non-frozen, Frozen _____
 Glacier; Snow/Ice field _____
 Spot elevation (snow/ice): Normal; Critical _____ 1819 2016

ARID REGION FEATURES
 Sand dunes:
 Crescent; Dome; Linear _____
 Ripple; Star; Transverse _____
 Oasis; Sabkha _____

Use on domestic U.S. sheets.

B.4 - JOG 1501 MASTER LEGEND - GROUND

POPULATED PLACES

Small populated place; Built-up area; Settlement

Shantytown; Not intact

Populated place classification:

First class **CHICAGO**

Second class **BIRMINGHAM**

Third class **Novi**

Fourth class **Watertown**

Fifth class **Ortonville**

ROADS

All weather, hard surface:

Divided highway; Interchange 6 LANES

>=4 lanes; 2-3 lanes; 1 lane

All weather, loose surface:

>=4 lanes; 2-3 lanes; 1 lane

Not intact: Divided; Not divided

Fair weather road/street; Cart track; Trail

Route markers:

International; National motorway; National; Local

RAILWAYS

Standard/Broad gauge >=1.44m (4'8.5")

Narrow gauge <1.44m (4'8.5")

Electrified (standard gauge); Station

BOUNDARIES

International; First-order administrative

Conservation area; Military installation

CULTURAL FEATURES

Building:

Intact; Not intact

Prison

Christian; Islam; Judaism; School; Diplomatic

Pagoda; Stupa; Temple; Hospital; Health station

Fortified building; Castle; Checkpoint; Monument; Ruins

Cemetery:

Christian; Islam; Judaism; Buddhism; Shinto; Unknown

Tower:

Comm., Non-comm., Water; Water intake; Cooling

Lighthouse; Windmill; Wind turbine; Crane

Power substation; Storage tank; Extraction mine: Intact; Not intact

Flare pipe; Smokestack; Non-water well; Ski jump

UNESCO World Heritage Site; Sports ground

Facility

Refinery

Tunnel: Road; Railway

Bridge: Pedestrian; Road; Railway

Wall; Fence; Lock; Dam: Hard; Loose

Pipeline:

Surface

Underground

Elevated

Water

Non-water

HYDROGRAPHIC FEATURES

River:

125m wide or more

Less than 125m wide

Disappearing; Dissipating

Natural pool

Water well

Ditch

Inland waterbody:

Natural shoreline

Manmade shoreline

Cistern; Underground aqueduct with qanats; Salt evaporator

Rice field; Land subject to inundation; Bog/Marsh

Swamp:

Other; Nipa/Palm; Mangrove

VEGETATION FEATURES

Forest; Scattered trees; Row of trees

Tropical grassland; Orchard; Vineyard

HYPSOGRAPHIC FEATURES

Spot elevation: Normal; Critical

Survey point: Geodetic; Benchmark

HIGHEST KNOWN elevation is **688** located at the following coordinates:

Geographic **25°38'N, 71°12'E**

Grid **YP2135**

Cave mouth; Rock formation; Mountain pass

Cut line; Fill; Levee/Dyke; Steep terrain face

Soil Surface Region:

Distorted surface; Gravel/Moraine; Sand

For sheets in the United States, see JOG PC section 2.1.1.3 and the symbols below.

3.5.3 The gray tinted areas indicate margin data that is variable.

VERTICAL OBSTRUCTIONS (VO) (>=46 meters)
 Single; Multiple _____

114 - Elevation of obstruction top above sea level
 (110) - Height of obstruction top above ground level

Wind farm; Wind turbine VO: Single; Multiple _____

Cable/Linear VO: Long; Short _____

CABLES
 Power transmission line; Pylon VO _____
 Power distribution/communication line _____

AIRCRAFT FACILITIES (Military or Civil)
 Land aerodrome: _____

TENGAH WSAT 15 EDNA KCFV 221

Runway pattern known AND length >= 457 meters _____

Runway pattern unknown OR length < 457 meters _____

EDNA - Name
 KCFV - International Civil Aviation Organization (ICAO) code
 221 - Elevation

Water Aerodrome; Heliport/Helipad: Hospital; Non-hospital _____

Aerodrome beacon: Flashing; Fixed _____

ADDITIONAL LEGEND SECTIONS ← (3.5.1)

Route markers:
 → National motorway; National; Local _____

COASTAL HYDROGRAPHIC FEATURES
 Light vessel; Offshore structure; Foreshore _____ Platform

Exposed feature: Rock; Wreck; Reef _____ *

Shoreline construction _____

FROZEN REGION FEATURES
 Ice cliff; Ice peak: Non-frozen, Frozen _____

Glacier; Snow/Ice field _____

Spot elevation (snow/ice): Normal; Critical _____ 555 615

ARID REGION FEATURES
 Sand dunes:
 Crescent; Dome; Linear _____

Ripple; Star; Transverse _____

Oasis; Sabkha _____

Use on domestic U.S. sheets.

B.5 - AIR WARNING NOTES

Note examples with alternates:

WARNING
All FLT shall obtain clearance at least 15 min prior to entering [Country] airspace.

or

WARNING
All FLT shall obtain clearance at least 15 min prior to entering [Country] airspace.

WARNING
Aircraft infringing upon non-free flying territory may be fired on without warning. Consult NOTAMS and flight information publications for the latest air information.

or

WARNING
Aircraft infringing upon non-free flying territory may be fired on without warning. Consult NOTAMS and flight information publications for the latest air information.

Box: 0.30 mm lineweight, Blue 072

Overall height: variable

Overall width: variable

Note header: 12 pt, bold, upper case, Blue 072, centered

Note body: 12 pt, bold, mixed case, Blue 072, centered

For text variations, box will be adjusted, allowing for a minimum of 0.5 mm spacing from text. Alternate examples are suggestive; boxes may be sized as needed. Reference authoritative sources for note content. Samples notes are examples only.

Additional note examples:

CAUTION
Flight outside Airways and Control Areas is prohibited within [Country] territories.

WARNING
Aircraft infringing upon non-free flying territory may be fired upon without warning.

CAUTION
The airspace outside controlled airspace, published airways and advisory routes over the [Country] is prohibited.

WARNING
Unlisted radio emissions from this area may constitute a navigation hazard or result in border overflight unless unusual precaution is exercised.

WARNING
Flying over [Country] territories outside of AWYs, ADRs, and TCAs is prohibited.

ADIZ and buffer zone notes:

Entire area of this chart falls within [Country] ADIZ.

Entire area of this chart falls within [Country] Buffer Zone.

Box: 0.20 mm lineweight, Blue 072

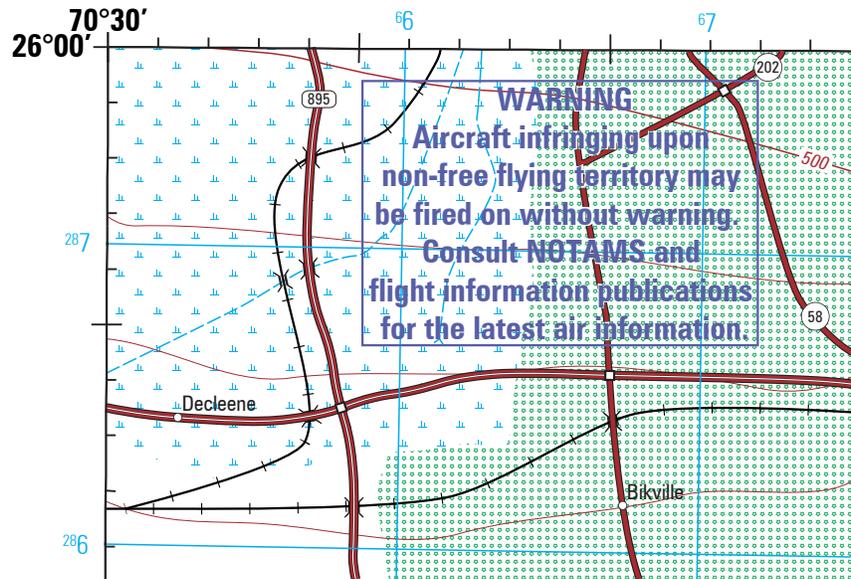
Overall height: variable

Overall width: variable

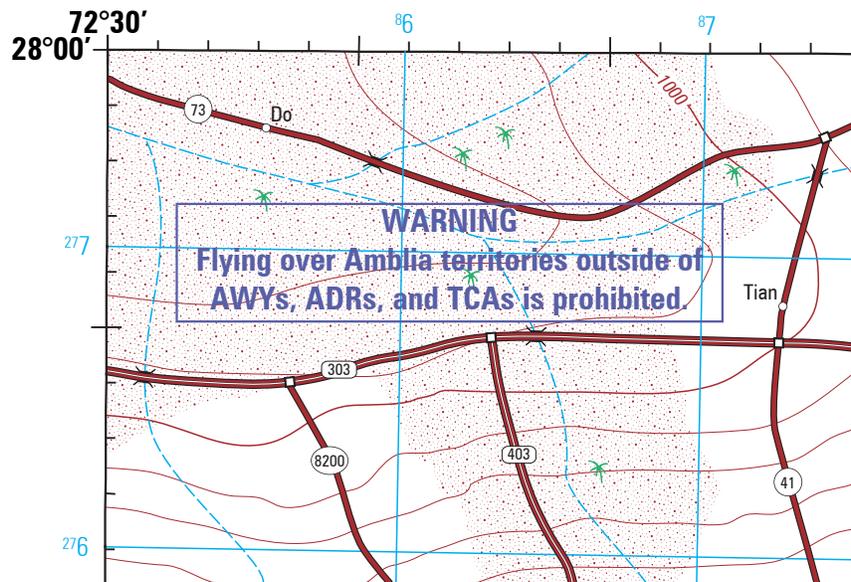
Note: 8 pt, regular, mixed case, Blue 072, centered

For text variations, box will be adjusted, allowing for a minimum of 0.5 mm spacing from text.

Reference authoritative sources for note content. Sample notes are examples only.

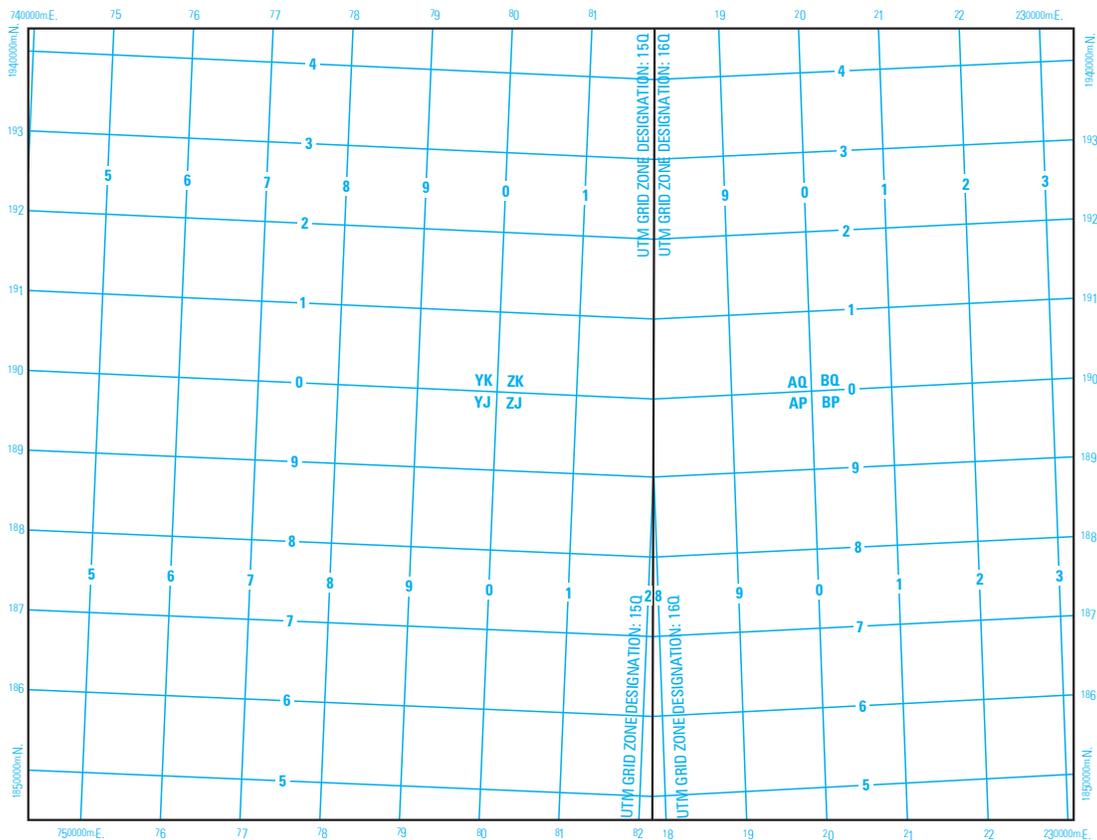


Air Warning Notes shall be placed in map areas with as little conflict as possible when considering terrain, features, and labeling. Placement areas may ideally include desert or deserted areas, extended ground cover, or tidal water. Notes will be resized as needed in order to fit into specific spaces on the map, while retaining the 12 point type. Labels will not be placed within Air Warning Note box (such as place names, river labels, and road route markers). Roads and other transportation features will be masked by the Note text, with a masking of 0.2 mm. Other linear features may be overprinted by the Note, including rivers and contours. Area patterns may be within the Note box, and will be overprinted by the note content (with exception to area patterns that incorporate Black 100, i.e. Asphalt Lake). Reference the above and below figures.



Air Warning Notes may be shaped to fit a specific space within the map. Note height and width may be adjusted. Additional variables to adjust the note include line kerning (reference DPS guidelines on kerning). Notes may be repeated within in map sheet.

B.6 - GRID ZONE JUNCTIONS



The grid note that appears in the Geodetic Information and Composite Notes in lower margin of the sheet shall be as follows:

GRID 10,000 METER UTM ZONES 15 AND 16