

THE REPUBLIC



OF THE GAMBIA

Department of Lands & Surveys Mummaur El-Ghadaffi Avenue Banjul.

Ref. SA 20/132/01/(21)

19th December 2001

TO WHOM IT MAY CONCERN

This letter serves to confirm that the bearers of these Aerial Photographs and other reports, Messes. Tomoharu Yokota and Katsuyuki Kondo are doing so on behalf of the Government of The Gambia.

These photos and reports are en route to Japan for processing after which they will be returned to the Gambia for further action.

The items include the following:

- 1. Contact Prints 2 sets
- 2. Negative films 1 set
- 3. Diapositive films- 1 set
- 4. Photo index map (scale 1:250,000) 1 set
- 5. Raw data of airborne GPS -1 set (CD Rom and printed sheets)
- 6. Recorded time data (event record):- 1 set (CD-Rom and printed sheets)
- 7. Co-ordinates list of the projection centre -1 set
- 8. Certified calibration records of Camera-1 set
- 9. Flight records 1 set
- 10. Weekly progress reports -1 set for every week

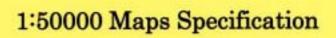
Should you require any further confirmation regarding the above, please do not hesitate to contact the writer.

On behalf of the Government of the Gambia we thank you for your cooperation and assistance to these two JICA Officials easy passage to Japan.

O Sparjusey

For Director Lands & Surveys





THE REPUBLIC OF THE GAMBIA 1:50,000 MAPS

Specification

Rev.1.4

21st July 2002

DL&S JICA

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Remarks				Total Width 0.8mm 上。身	Total Width 0.6mm	Total Width 04mm	*Dashed Line should be applied	Only for Publication expression		Vehicle/Human	Symbolized Item	Prominent House(small)	Prominent House(Large)	Prominent House(Build up)	Generalized Houses	Place symbol without indicate point.	=
GIS Attribute	Vec	Vec	Vec	Vec	Vec	Vec	Vec	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Vec	Сво	Cad
Layers	Boundary	Boundary	Boundary	Surface	Surface	Surface	Surface	Road	Road	Road	Road	Buildings	Buildings	Buildings	Surface	Landmark	Landmark
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Item	10	02	03	10	02	03	2	10	02	10	02	01	05	03	10	10	02
Class	==	11	==	21	21	21	21	22	22	23	23	31	31	31	32	33	33
Feature	Administlative Boundary			Road (Symbolized)			破線	Road (Real Width)		Road		Prominent House			Generalized	Building	
Category	Boundry			Transportation Facilities				•				Buildings					

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GIS Attribute *	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad
Layers	Landmark	Landmark	Landmark	Landmark	Landmark	Landmark	Landmark	Landmark	Landmark	Landmark	Landmark	Landmark	Landmark	Landmark	Landmark	Landmark	Landmark
Color	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
Symbol Height* Width (mm)	2.0*2.0	1.5*2.0	2.0*2.0	1.5*1.5	2.0*1.5	2.0*1.5	1.5*1.5	1.5*-	1.5*-	1.5*1.5	1.5*1.5	1.5*1.5	1.5*1.5	1.5*-	1.5*-	1.5*-	1.5*-
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Feature Item	Custom Post	Post Office	Police Station	Police Post	Church	Mosque	School	Community Centre	Hospital	Health Centre	Dispensary	Telephone Exchange	Telephone Kiosk	Market	Rest House / Camp	Electricity Transmitter	Electricity Power Station
Class Item Code Code	03	20	05	90	20	80	60	10	11	12	13	14	15	16	17	18	19
Class Code	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
Feature Class																	
Category																	

Remarks	-	-	5			" Shape of This Feature shuld be applied to Attribute of This	" Shape of This Feature shuld be applied to Attribute of This	" Shape of This Feature shuld be applied to Attribute of This				<u>-</u>	Telephone Line/Telegraph Line		9 9 9		
GIS Attribute	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Vec	Vec	Vec
Layers	Landmark	Landmark	Landmark	Landmark	Landmark	Utilities	Utilities	Utilities	Utilities	Utilities	Utilities	Utilities	Utilities	Utilities	Surface	Surface	Surface
Color	Black	Black	Black	Black	Black	Blue	Blue	Blue	Blue	Blue	Black	Black	Black	Black	L.Blue	Blue L.Blue	Blue
Symbol Height* Width (mm)	1.5*-	1.5*1.5	1.5*2.0	2.0*1.5	2.0*2.0	1.5*-	1.5*-	1.5*-	1.5*_	1.5*-	1.0*2.0	2.0*1.5	0.5		1	1	1
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Feature Item	Mixed Farming Centre	Petrol Station	Hotel	Wharf Town	Airport	Water Tank	Water Tower	Reservoir	Bore Hole	Water Pipe Line	Power Line	Antenna	Telephone Line	Reserve Boundary	Coast Line	River	Stream
lem Code	20	21	22	23	24	01	02	03	04	05	90	07	80	60	01	02	03
Class	33	33	33	33	33	41	41	41	41	41	41	41	4	41	51	51	51
Feature						Small Object									Waters		
Category						Small Object									Waters		

Remarks	*Dashed Line should be applied		Points should be placed randomly.	Vehicle/Human	- by	Applied for Cemetary, Airport, Mines	Place symbol without indicate point. It can be placed in the prual.		Place symbol without indicate point.			Invisible Item	Filled Color of the tra	24 - 36 - 36		2 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Symbol Should be Placed randomly.
GIS Attribute	Vec	Vec	Vec	Cad	Cad	Vec	Vec	Vec	Vec	Vec	Vec	Vec	Vec	Vec	Vec	Vec	Vec
Layers	Surface	Surface	Surface	Water Facilities	Water Facilities	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Color	Blue	Blue L.Blue	D.Glay L.Blue	Black	Black	Black	Black	Black	Black	Black	Black		D.Glay Y.Green	D.Glay Y.Green	D.Glay Y.Green	D.Glay Y.Green	D.Green
Symbol Height* Width (mm)			0.3	1.0*0.5			2.0*1.5	2.0*1.5	1.5*1.5	1.5*-	1.5*1.5	,	1.5	1.5*1.5	1.5*1.5	1.0*1.0	1.5*1.5
Line Width (mm)	0.2	0.15		0.15	0.2	0.15	0.2	0.2	0.2	0.2	0.2	- 1	¥	11000		O,	
Data	Line	Line	Area	Line	Line	Line	Point	Point	Point	Point	Point	Line	Area	Area	Area	Arca	Area
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Feature	Seasonal River/Stream	Lake / Pond	Sand Island	Ferry	Jetty	Specific Area Boundary	Christian	Muslim	Mine	Under	Ruins	Vagetation	Rice Field	Cultivation	Palms	Plantation	Forest
Item	8	05	90	01	02	10	02	03	R	05	90	10	00	03	8	90	96
Class	51	51	51	52	52	61	61	61	19	19	19	71	71	17	11	1	17
Feature	CT REAL SE	San Naza feld	2 - 12 663 3 2.	Structures	Water	specific Areas Specific Areas						Vegetation					
Category	. 61 10 222	12 P		1		pecific Areas			15 To 10 To			Vegetation					1

Remarks	** ***********************************	# 15 The Table	# 1-4-1 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		Sands								Annotation shuld be applied by Annotation Spec.		=	" プラ ハミュリナ 早を出まの はれのみ	
GIS Attribute	Vec	Vec	Vec	Vec	Vec	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad
Layers	Surface	Surface	Surface	Surface	Surface	Terrain	Теттаіп	Terrain	Terrain	Terrain	Terrain	Terrain	dDD	GCP	GCP	GCP	GCP
Color	D.Glay Green	D.Glay Brown	D.Glay L.Green	D.Glay Blue	D.Glay L.Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Black	Black	Black	Black	Black
Symbol Height* Width (mm)	1.0*1.0	1.5*1.5	1.5	1.5	0.3					5.0*1.0	2.0*1.0	2.0*2.0	1.5*-	3.0*2.0	0.3	4.0*4.0	1.5*-
Line Width (mm)						80.0	1.5	80.0	80.0	0.1	- 22	0.1	0.1	- 1		0.1	0.1
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Feature	Woods	Mangrove	Grass Land / Low Growth	Swamp	Plain Ground	Normal Contour (20m)	Index Contour (100m)	Intermediate Contour (10m)		Depression	Steep Slopes	Cliff	Trigonometrical Station	Bench Mark	Spot Height	Airpohoto Principal Point	International Boudary Pillar
Item	0.2	80	60	10	11	10	02	03	ষ	05	10	02	01	02	03	B	10
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* Vec: Topological structured Item *Cad: Geometrical stuructured Item

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Remarks	3	With Underline							None								
GIS Attribute	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad	Cad
Layers	Annotatio	Annotatio	Annotatio	Annotatio	Annotatio	Annotatio	Annotatio	Annotatio	Annotatio	Annotatio	Annotatio	Annotatio	Annotatio	Annotatio	Annotatio	Annotatio	Annotatio
Туре	D/C	n/c	n/c	D/C	U/L/C	U/L/C	U/L/C	D/C	n/c	n/c	D/C	D/T/C	DVIVO	n/c	D/L/C	D/I/C	D/I/C
Color	Black	Black	Black	Black	Black	Black	Black	Bluc	Blue	Blue	Blue	Blue	Black	Black	Blue	Black	Black
Height (m)		150	150	125	100	75	27.	250	250	250	100	75	100	100	75	100	100
Font	Univers	Univers	Univers	Univers	Univers	Univers	Univers	Univers	Univers	Univers	Univers	Univers	Univers	Univers	Univers	Univers	Univers
Figure	REPUBLIC OF SENEGAL	BRIKAMA	JESWANG	SANYANG	Parahal	designation and o	Communication (Seeing	NORTH ATRANTIC OCEAN	ı	RIVER GAMBIA	AOTAN BATTA	Stree Best te	Barra Paint	BLAR, ISLANDS	Standillatily Served Annel	FURLINE FOREST PARE	DARLEL INTERNATIONAL AIRPORT
Feature	Country	Divisional Headquaters	Town	Village	Hamlet	Bridge	Named Buildings	Sca	Bay	Gambia River	River	Stream	Cape/Point	Island	Lake/Pond	Reserves	Airport
ltem Code	10	02	03	90	05	10	02	10	02	03	4	90	90	0.2	80	10	02
Class	91	91	16	91	91	92	92	93	93	93	93	93	93	93	93	94	94
Feature	Adoministartion					Land Mark		Water Areas								Specific Areas	
Category	Annotation														,		

s GIS Remarks	tio Cad 宝色点,水塘店,	tio Cad	tio Cad
Layers	Annotatio n	Annotatio n	Annotatio n
Туре	n/c	U/C	n/c
Color	Black	Brown	Brown
Height (m)	70 75 #€≀3	75	75
Font	Univers Italic	Univers	Univers Italic
Figure	1.27.50	29	90
Feature Item	Point Name	Height Value	Contour Height Value
Class Item	95 01	95 02	03
Class	95	95	98
Feature	Control Point		Contour Height 95
Category			

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National Base Map Symbols Regulation (Draft)

NATIONAL BASE MAP SYMBOLS REGULATION

(Draft)

DEPARTMENT OF LANDS AND SURVEYS,

DEPARTMENT OF STATE FOR

LOCAL GOVERNMENT AND LANDS,

REPUBLIC OF THE GAMBIA

National Base Map Symbols Regulation for the Republic of the Gambia

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Chapter 1 General Rules

1.1 General Rules

1.1.1 Objectives

These map symbols regulations aim to define the items to be represented on the 1:50,000-scale national base maps of the Republic of the Gambia (hereinafter referred to as national base maps) as well as the principles for the selection and representation method of such items.

1.1.2 Characteristics of a National Base Map

A national base map refers to a typical small-scale topographic map that expresses in detail actual area conditions and serves to promote the rational administrative policies of the central government and the municipalities.

1.1.3 Instructions for Map Symbol Utilization

The director of the Department of Lands and Surveys may give instructions, when necessary, regarding the selection of items to be represented and the representation methods to adopt.

1.2 National Base Map Specifications

1.2.1 Position Standards

The WGS84 reference system shall be adopted for the positions to be represented on the national base maps. These positions shall be expressed using the Universal Traverse Mercator (hereinafter referred to as UTM) coordinates.

1.2.2 Projection Method

For projection, the UTM shall be adopted.

1.2.3 Size of National Base Map

1.3 Principles for Representation

1.3.1 Items to be Represented

- 1. All items specified in Chapter 2 shall be represented on national base maps. Items to be indicated are restricted to permanent objects observed in field investigations. However, the items below may be expressed as well.
 - (1) Objects that are under construction and will be completed roughly within a year.
 - (2) Non-permanent objects that are considered of importance.
- 2. Objects that do not meet the application criteria for the map symbols specified in Chapter 2 may also be expressed if their omission will significantly affect the rationality of the map.

1.3.2 Method of Representation

- 1. Ground surface conditions shall be expressed in accordance with the national base map scale, as accurately and in as much detail as possible.
- Objects shall be represented on the national base map by delineating the shape of their orthographic projection using symbols. Objects that are difficult to project orthographically, shall be indicated by placing specified symbols at the center of their orthographic projection.
- 3. Objects without any specified symbols for representation shall be expressed using annotations such as names and types.

1.3.3 Selection of Items to be Represented and Overall Representation

- 1. The items to be expressed on the national base map shall be selected and represented appropriately in accordance with the map scale.
- 2. In the selection, the importance and shape of the object shall be examined and extra care should be taken to prevent omitting highly important items. The local features of each item shall be modified when necessary and expressed in such a way that the actual conditions are easily understood.

1.3.4 Repositioning of Represented Items

Only under inevitable circumstances shall repositioning be carried out, and if repositioning is indeed necessary, it shall be minimized.

1.3.5 Overlapping of Represented Items

In case the annotations and symbols inevitably overlap, the following rules shall be applied.

(1) If symbols of different color overlap one another, they shall be indictated by placing one on top of the other. However, if the relationship of the items of the overlapping symbols is three dimensional, the item underneath shall not be represented.

- (2) If symbols of the same color come in contact on a plane, the symbols shall be adjoined and expressed. However, if the relationship of the items of the adjoined symbols is three-dimensional, the symbol for the item underneath shall be separated and drawn away from the symbol of the upper item.
- (3) If symbols of same colors are adjacent to each other, they shall be expressed at a distance of 0.2mm from each other.

1.3.6 Permissible Error for the Size of Letters & Map Symbols

In case of unavoidable circumstances, the permissible error for the size of letters and symbols to be expressed on the national base map shall be within ± 0.2 mm.

1.3.7 Classification of Lines

Lines on the national base map shall be classified as shown in the table below.

Classification of Lines

Line No	Thickness	Remarks
Special No. 0	0.08mm	The permissible error for line thickness is
No. 1	0.10mm	± 0.01mm for every line number.
Special No. 1	0.15mm	
No. 2	0.20mm	
No. 3	0.30mm	

Chapter 2 Map Symbols

2.1 General Rules

2.1.1 Map Symbols

Map symbols are specified symbols for the representation of objects on a national base map, and are classified into: boundaries, transportation facilities, buildings, small objects, water areas, specific areas, vegetation, topographic features and control points.

2.2 Boundaries

2.2.1 Administrative Boundaries

Boundaries shall be classified into administrative boundaries, international boundaries, divisional boundaries and district boundaries.

2.3 Transportation Facilities

Transportation facilities shall be classified into roads and road facilities.

2.3.1 Roads

- 1. Roads refer to those for general traffic and shall be classified into true-to-scale roads and symbolized roads.
- 2. For true-to-scale-roads, the width shall be indicated. For symbolized roads, the centerline of the symbol shall be aligned with centerline of the actual road.

2.3.2 Road Facilities

Road facilities refer to structures, such as bridges, etc., that are integrated with roads to perfect their utility.

2.4 Buildings

Buildings shall be classified into buildings and building symbols.

2.4.1 Buildings

1. Buildings refer to structures used for dwellings and/or other reasons.

- 2. Buildings shall be classified into prominent buildings and generalized buildings.
- 3. Prominent buildings shall be classified into huts (small) and buildings (large), according to their size on the map, and named buildings.

2.4.2 Building Symbols

- 1. Building symbols are used to clearly represent the functions and use of a building.
- 2. Building symbols shall be placed on the map as follows.
 - (1) When the symbol can be placed within the building, it shall be placed at the center.
 - (2) When the symbol cannot be placed within the building, it shall be placed in the following order of priority: above, below, left, right.
 - (3) Symbols representing multiple buildings shall be placed at the location of the main building or at their center.
 - (4) If a building symbol is used for a part of a generalized building, the target building shall be separated and expressed as prominent building and the symbol shall be placed in it.
 - (5) If a building symbol is used to indicate a part of an individual building, the symbol shall be placed at the corresponding location.

2.5 Small Objects

2.5.1 Small Objects

- These refer to objects generally small in size that can only be expressed using specified symbols.
- As a rule, small objects that serve as excellent landmarks for identifying points shall be represented. However, if they are closely located to each other and it would be difficult to express all the objects, the less important ones may be omitted.
- Symbols for small objects, except for those particularly specified, shall be expressed in such a way that the center point, or the centreline, of the symbol is at the true location of the object concerned.
- 4. Except for those particularly specified, the symbols for small objects shall be expressed perpendicular to the lower neatline.

2.6 Water Areas

Water areas shall be classified into water areas and structures related to water.

2.6.1 Water Areas

Water areas refer to coastlines, rivers, streams, lakes and ponds.

2.6.2 Structures Related to Water

Structures related to water refer to structures on the coastline and ferries.

2.7 Specific Areas

- Specific areas refer to cemeteries, airports, etc., that have to be distinguished from other areas for the sake of map reading. Specific area symbols are defined as symbols that represent specific areas.
- 2. Depending on prevailing conditions, specific areas shall be represented using specific area boundaries, specific area symbols and/or annotations.
- 3. As a rule, the specific areas symbols shall be placed roughly at the center of the area. However, if there is a need to specify a principal area, the symbol shall be placed at the location of the principal area, and a multiple number of specific area symbols shall be placed at the location of a cemetery.
- 4. Specific area symbols shall be expressed perpendicular to the lower neatline.

2.8 Vegetation

- Vegetation refers to the different types of ground vegetation and the ground conditions.
 Vegetation boundaries and vegetation symbols are used for representation.
- 2. In representing vegetation, the vegetation boundary shall be used to enclose the area and the symbols for the different types of vegetation shall be placed within the enclosed area perpendicular to the lower neatline. Furthermore, the enclosed area shall be painted a specific colour.
- 3. Vegetation in areas measuring roughly under 3.0mm x 3.0mm or 1.5mm x 6.0mm on the map shall not be expressed, unless their omission in small and narrow areas is considered inappropriate.
- 4. If the omission of adjacent small areas with the same vegetation type is considered inappropriate, the areas shall be properly combined and expressed in accordance with the surrounding conditions.

2.9 Topographic Feature

- 1. Topographic feature refers to ground surface undulations, and, as a rule, contour lines shall be used to express these features.
- 2. Topographic features, that are difficult or inappropriate to represent using contour lines, shall be expressed using distorted area symbols.

2.9.1 Contour Lines

Contour lines are classified into normal contour lines, index contour lines, and intermediate contour lines.

2.9.2 Distorted Areas

Distorted areas shall be classified into and indicated on the map as cliffs and steep slopes.

2.10 Control Points

2.10.1 Control Points

- Control points shall be classified into and indicated on the map as triangometrical stations, bench marks, spot heights without stone markers, and spot heights determined using a plotter.
- 2. The elevations of trigonometrical stations, bench marks, spot heights without stone markers and spot heights determined using a plotter, shall be indicated.
- 3. As a rule, the control points, including the contour line values, shall be expressed at a density of 10 to 15 points for every 10cm x 10cm on the map.
- 4. The position of the principle points of aerial photos used in topographic map production shall be indicated.

2.10.2 Boundary Pillars

Boundary pillars shall be classified into and represented on the map as international boundary pillars and other border pillars including those for the Gambia River.

2.11 Forms of Topographic Map Symbols

The table below shows the forms and application of the topographic map symbols.

Chapter 3 Annotation

3.1 General Rule

Annotations refer to expressions using letters and numbers and shall be used to indicate the inherent names (hereinafter referred to as "proper name") of areas, manmade structures, and natural objects, the name, type and condition of objects without designated symbols, as well as elevations and contour line values.

3.1.1 Principles for Annotation

As a rule, annotations shall be made as follows.

- (1) Annotations shall be made for small objects, areas, and linear objects in accordance with the object type, area and shape on the map.
 - a. Small objects refer to those that exist on their own (e.g. independent buildings) and cover an area of less than 5.0mm x 5.0mm on the map.
 - b. Areas refer to agglomerated areas, as in residential areas, and stretches of land.
 - c. Linear objects refer to objects like rivers where the length is extremely longer in comparison to the width.
- (2) The annotation of proper names shall be restricted to present official names. For those without official names or with official names that are hardly ever used, the most commonly used name shall be adopted.
- (3) As a rule, abbreviated names shall not be annotated. In the case of commonly used abbreviations, however, they may be annotated as long as no questions shall arise as a result of their representation.
- (4) In case an annotation contains many letters and is inappropriate to abbreviate, it may be represented in two lines.
- (5) Annotations shall be positioned in such a way that they precisely indicate the target object, and do not erase important topography or objects.
- (6) Annotations shall be properly positioned so that they do not cross other lettering locations, as it would create confusion in reading.

3.1.2 Selection of Items to be annotated

The selection of annotations shall be carried out as follows.

- (1) All administrative names shall be indicated.
- (2) For the names of rivers, lakes, ponds, bays, islands, and other objects, only those that are famous and/or those considered important for the use of the map shall be indicated.

3.1.3 Writing Style & Font

- (1) The writing style shall be universal or universal italics.
- (2) The letters shall be upright or slanted to the right.

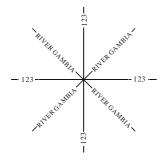
3.1.4 Lettering Location

Lettering location refers to the arrangement of an annotation and is classified into horizontal lettering location and oblique lettering location.

- (1) Horizontal lettering location refers to the horizontal (from left to right) arrangement of the letters parallel to the lower neatline.
- (2) Oblique lettering location refers to the arrangement of the letters along a straight line slanted at an appropriate angle to the lower neatline.

3.1.5 Lettering Direction

The direction of the lettering shall be as shown in the following diagram.



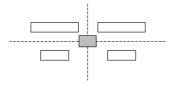
3.1.6 Annotation Arrangement

1. The annotations shall be arranged as shown in the following diagram.

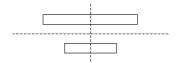
Annotation Categories	Lettering Location	Location of the Annotation	Remarks
Small Objects	Horizontal	The standard interval between the object and the annotation shall be 1.0mm. * The location of annotations for features that are poorly visible and difficult to annotate based on the above mentioned method, may be appropriately moved.	
Area	Horizontal	Area Annotations shall be placed within the object Area Annotations shall be placed outside the object	
Linear Objects	Oblique	The direction of the annotations shall be as shown in 3.1.5	Annotations for very wide linear objects shall be placed within the target object. Contour line values shall be expressed on the contour line.

- 2. When the lettering is expressed in two lines, the interval between lettering locations shall be 1.0mm. The following specifications shall also be applied.
 - (1) For small objects, the letters on the side of the object shall be completed, and the center line of the two lines shall be drawn to coincide with the center of the object.

 Annotations shall be ranked in this order: ,



(2) For areas, the center of each line shall be aligned with the center of the target area.



3.1.7 Annotation Application

Feature	Class	Item	Feature Item			ont pt		Annotation Categories				
Class	Code	Code		Figure	Font		Color	Small Object	Area (I)	Area (II)	Liner Objects	
Adoministartion	91	01	Country	REPUBLIC OF SENEGAL	Univers	-	Black					
	91	02	Divisional Headquaters	<u>BRIKAMA</u>	Univers	8.5	Black					
	91	03	Town	JESWANG	Univers	8.5	Black					
	91	04	Village	SANYANG	Univers	7	Black					
	91	05	Hamlet	Pancholi	Univers	5.5	Black					
Land Mark	92	01	Bridge	Oyster Creak Bridge	Univers	4	Black					
	92	02	Named Buildings	Government Quarters	Univers	4	Black					
Water Areas	93	01	Sea	NORTH ATRANTIC OCEAN	Univers Italic	14	Blue					
	93	02	Bay	-	Univers Italic	14	Blue					
	93	03	Gambia River	RIVER GAMBIA	Univers Italic	14	Blue					
	93	04	River	LAMIN BOLON	Univers Italic	7	Blue					
	93	05	Stream	River Senifet	Univers Italic	4	Blue					
	93	06	Cape/Point	Barra Point	Univers	5.5	Black					
	93	07	Island	BIJOL ISLANDS	Univers	5.5	Black					
	93	08	Lake/Pond	Katchikally Secred Pond	Univers Italic	4	Blue					
Specific Areas	94	01	Reserves	FURUYAR FOREST PARK	Univers	7	Black					
	94	02	Airport	BANJUL INTERNATIONAL AIRPORT	Univers	7	Black					
Control Point	95	01	Point Name	CS AZ 7	Univers Italic	4	Black					
	95	02	Height Value	ω	Univers	4	Brown					
	95	03	Contour Height Value	50	Univers Italic	4	Brown					
Other	96	01	Airphoto Principal Point		Univers	4	Black					

3.2 Detailed Rules

3.2.1 Administrative Names

As a rule, all administrative names shall be indicated.

3.2.2 Bridges

The names of bridges that are famous and/or are considered important for the use of the map shall be indicated.

3.2.3 Buildings

Annotations for building names shall be carried out as follows:

- (1) The names of buildings that are famous and/or considered important for the use of the map shall be indicated.
- (2) If annotations are to be made for buildings with building symbols, the building symbol shall be omitted.
- (3) For universities, the abbreviation of university names shall be annotated. If deemed particularly necessary, the names of the university departments shall be expressed as well.

3.2.4 Water Areas

Names of water areas shall be indicated as follows:

- (1) River names shall be indicated according to the methods specified for the annotation of linear objects.
- (2) Rivers that cannot be indicated as linear objects due to their configuration (i.e. in the corner of the map) may be annotated according to the method specified for small objects and/or areas.
- (3) Depending on the shape and expanse, the names of lakes, ponds, and marshes shall be annotated according to the methods specified for either small objects or areas.
- (4) Depending on the shape and expanse, bay names shall be annotated according to the methods specified for either small objects or areas.
- (5) Depending on the shape and size, island and cape names shall be annotated in accordance with the methods specified for either small objects or areas.

3.2.5 Structures Related to Water

Depending on the scale, the names of boat/ferry docking places shall be annotated in accordance with the methods specified for either small objects or areas.

3.2.6 Specific Areas

(1) The names of specific areas shall be annotated according to the method specified for areas. If this is inappropriate because the area on the map is narrow, the annotation may be made according to the method specified for either small objects or linear objects.

3.2.7 Names and Elevations of Control Points

1. The elevations and names of control points shall be indicated on the right side and lower right or the left side and lower left of their respective symbols. However, if the location overlaps other important objects, the location may be moved as deemed appropriate.

2. The elevations of trigonometrical stations, bench marks and spot height without stone markers shall be indicated in meters.

3.2.8 Values of Contour Lines

Contour line values shall be expressed as follows:

- (1) The values of contours shall mainly be indicated on index contour lines, primary and secondary intermediate contour lines, and depression contours. They may also be indicated on normal contour lines in flat areas if deemed necessary for the sake of map reading.
- (2) The values shall be positioned so as not to block the representation of the topography. Values shall not be expressed on ridges and valleys with large curvatures.
- (3) Values shall be positioned so that the center of the numbers and the contour line are aligned.
- (4) The values, including those for the control points, shall be expressed at a density of 15 to 20 values for every 10cm x 10cm on the map.

3.2.9 Annotation of Explanations

In cases when map symbols cannot clearly identify conditions and types, annotation of explanations shall be annotated according to the methods specified for small objects, areas, and/or linear objects, depending on the type of the object concerned.

Category	Feature Class	Class Code		Feature Item	Figure	Data Type	Line Width (mm)	Color
	Pillars	84	01	International Boudary Pillar	AP	Point	0.1	Black
		84	02	Boundary Pillar (Others)		Point	-	Black

^{*} Vec: Topological structured Item *Cad: Geometrical stuructured Item

Applications

- 1. International boundary pillars are the pillars that establish the international boundaries of which the concerned countries have
- 2. Of the above-mentioned international boundary pillars, those that have been resurveyed or readjusted based on the new geodetic
- system shall be indicated.

 1. Boundary pillars refer to pillars that have been installed with a fixed objective (i.e. river boundary pillars). As a rule, all boundary pillars shall be indicated.

Chapter 3 Annotation

3.1 General Rule

Annotations refer to expressions using letters and numbers and shall be used to indicate the inherent names (hereinafter referred to as "proper name") of areas, manmade structures, and natural objects, the name, type and condition of objects without designated symbols, as well as elevations and contour line values.

3.1.1 Principles for Annotation

As a rule, annotations shall be made as follows.

- (1) Annotations shall be made for small objects, areas, and linear objects in accordance with the object type, area and shape on the map.
 - a. Small objects refer to those that exist on their own (e.g. independent buildings) and cover an area of less than 5.0mm x 5.0mm on the map.
 - b. Areas refer to agglomerated areas, as in residential areas, and stretches of land.
 - c. Linear objects refer to objects like rivers where the length is extremely longer in comparison to the width.
- (2) The annotation of proper names shall be restricted to present official names. For those without official names or with official names that are hardly ever used, the most commonly used name shall be adopted.
- (3) As a rule, abbreviated names shall not be annotated. In the case of commonly used abbreviations, however, they may be annotated as long as no questions shall arise as a result of their representation.
- (4) In case an annotation contains many letters and is inappropriate to abbreviate, it may be represented in two lines.
- (5) Annotations shall be positioned in such a way that they precisely indicate the target object, and do not erase important topography or objects.
- (6) Annotations shall be properly positioned so that they do not cross other lettering locations, as it would create confusion in reading.

3.1.2 Selection of Items to be annotated

The selection of annotations shall be carried out as follows.

- (1) All administrative names shall be indicated.
- (2) For the names of rivers, lakes, ponds, bays, islands, and other objects, only those that are famous and/or those considered important for the use of the map shall be indicated.

3.1.3 Writing Style & Font

- (1) The writing style shall be universal or universal italics.
- (2) The letters shall be upright or slanted to the right.

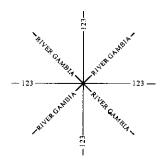
3.1.4 Lettering Location

Lettering location refers to the arrangement of an annotation and is classified into horizontal lettering location and oblique lettering location.

- (1) Horizontal lettering location refers to the horizontal (from left to right) arrangement of the letters parallel to the lower neatline.
- (2) Oblique lettering location refers to the arrangement of the letters along a straight line slanted at an appropriate angle to the lower neatline.

3.1.5 Lettering Direction

The direction of the lettering shall be as shown in the following diagram.



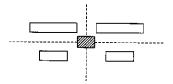
3.1.6 Annotation Arrangement

1. The annotations shall be arranged as shown in the following diagram.

Annotation Categories	Lettering Location	Location of the Annotation	Remarks
Small Objects	Horizontal	The standard interval between the object and the annotation shall be 1.0mm. * The location of annotations for features that are poorly visible and difficult to annotate based on the above mentioned method, may be appropriately moved.	
Area	Horizontal	Area I Annotations shall be placed within the object Area II Annotations shall be placed outside the object	
Linear Objects	Oblique	The direction of the annotations shall be as shown in 3.1.5	Annotations for very wide linear objects shall be placed within the target object. Contour line values shall be expressed on the contour line.

- 2. When the lettering is expressed in two lines, the interval between lettering locations shall be 1.0mm. The following specifications shall also be applied.
 - (1) For small objects, the letters on the side of the object shall be completed, and the center line of the two lines shall be drawn to coincide with the center of the object.

 Annotations shall be ranked in this order: ①, ②



(2) For areas, the center of each line shall be aligned with the center of the target area.



3.1.7 Annotation Application

Feature	Class	Item	Feature	Figure					Annotation	Categorie	
Class	Code	Code	ltem .	Pitgire	Font	Pt	Color	Small Object	Area (l)	Area (II)	Liner Objects
Adoministartion	91	01	Country	REPUBLIC OF SENEGAL	Univers	-	Black		0		Ovicus
	91	02	Divisional Headquaters	<u>ERIKAMA</u>	Univers	8.5	Black		0	· :	
	91	03	Town	JESWANG	Univers	8.5	Black		0		
	91	04	Village	SANYANG	Univers	7	Black		0		<u>, </u>
<u>-</u>	91	05	Hamlet	Pancholi	Univers	5.5	Black		0	0	
Land Mark	92	01	Bridge	Out to Comb Profes	Univers	4	Black	0	i		0
	92	02	Named Buildings	Governant Quatery	Univers	Ħ	Black	0	0	0	
Water Areas	93	01	Sea	NORTH ATRANTIC OCEAN	Univers Italic	14	Blue	0	0	0	0
	93	02	Вау		Univers Italic	14	Blue	0	0		0
	93	03	Gambia River	RIVER GAMBIA	Univers Italic	14	Blue	0	. 0	0	0
	93	04	River	LABIH BOLOH	Univers Italic	7	Blue	0	0		0
	93	05	Stream	their besty	Univers Italic	4	Blue	0	0	Ţ	0
	93	06	Cape/Point	Berra Point	Univers	5.5	Black	0		0	
	93	07	Island	BI JOL I SLANDS	Univers	5.5	Black	0	0	0	
	93	08	Lake/Pond	Retchile) by Secred Hadi	Univers Italic	4	Blue	0	0	0	
Specific Areas	94	01	Reserves	PURUYAR FOREST PARK	Univers	7	Black	0	0	0	0
·	94	02	Airport	BANJUL INTERNATIONAL AIRPORT	Univers	7	Black	0	0	0	0
Control Point	95	01	Point Name	au)	Univers Italic	4	Black				
!	95	02	Height Value	g	Univers	4	Brown				
	95	03	Contour Height Value	59	Univers Italic	4	Brown				
Other	96	01	Airphoto Principal Point		Univers	4	Black				

3.2 Detailed Rules

3.2.1 Administrative Names

As a rule, all administrative names shall be indicated.

3.2.2 Bridges

The names of bridges that are famous and/or are considered important for the use of the map shall be indicated.

3.2.3 Buildings

Annotations for building names shall be carried out as follows:

- The names of buildings that are famous and/or considered important for the use of the map shall be indicated.
- (2) If annotations are to be made for buildings with building symbols, the building symbol shall be omitted.
- (3) For universities, the abbreviation of university names shall be annotated. If deemed particularly necessary, the names of the university departments shall be expressed as well.

3.2.4 Water Areas

Names of water areas shall be indicated as follows:

- River names shall be indicated according to the methods specified for the annotation of linear objects.
- (2) Rivers that cannot be indicated as linear objects due to their configuration (i.e. in the corner of the map) may be annotated according to the method specified for small objects and/or areas.
- (3) Depending on the shape and expanse, the names of lakes, ponds, and marshes shall be annotated according to the methods specified for either small objects or areas.
- (4) Depending on the shape and expanse, bay names shall be annotated according to the methods specified for either small objects or areas.
- (5) Depending on the shape and size, island and cape names shall be annotated in accordance with the methods specified for either small objects or areas.

3.2.5 Structures Related to Water

Depending on the scale, the names of boat/ferry docking places shall be annotated in accordance with the methods specified for either small objects or areas.

3.2.6 Specific Areas

The names of specific areas shall be annotated according to the method specified for areas. If this is inappropriate because the area on the map is narrow, the annotation may be made according to the method specified for either small objects or linear objects.

3.2.7 Names and Elevations of Control Points

 The elevations and names of control points shall be indicated on the right side and lower right or the left side and lower left of their respective symbols. However, if the location overlaps other important objects, the location may be moved as deemed appropriate. The elevations of trigonometrical stations, bench marks and spot height without stone markers shall be indicated in meters.

3.2.8 Values of Contour Lines

Contour line values shall be expressed as follows:

- (1) The values of contours shall mainly be indicated on index contour lines, primary and secondary intermediate contour lines, and depression contours. They may also be indicated on normal contour lines in flat areas if deemed necessary for the sake of map reading.
- (2) The values shall be positioned so as not to block the representation of the topography. Values shall not be expressed on ridges and valleys with large curvatures.
- (3) Values shall be positioned so that the center of the numbers and the contour line are aligned.
- (4) The values, including those for the control points, shall be expressed at a density of 15 to 20 values for every 10cm x 10cm on the map.

3.2.9 Annotation of Explanations

In cases when map symbols cannot clearly identify conditions and types, annotation of explanations shall be annotated according to the methods specified for small objects, areas, and/or linear objects, depending on the type of the object concerned.