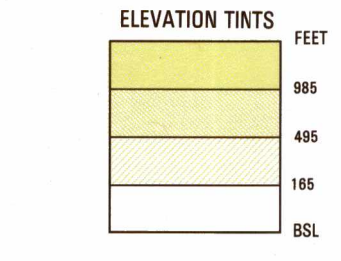


SERIES 1501 AIR SHEET SA 21-16 EDITION 1



RELIABILITY OF THIS GRAPHIC (as determined by standard practices)

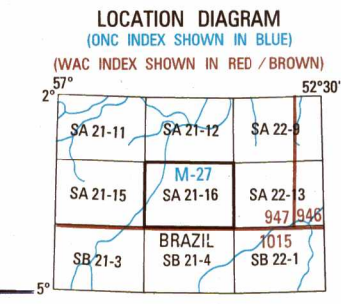
PLOTING ACCURACY 90% ASSURANCE	AREA I		AREA II	
	Horizontal	within 500 ft. within 425 ft.	within 500 ft.	within 425 ft.
GRAPHIC FEATURE	AREA I	AREA II	AREA I	AREA II
	Man-made features	1982, 83	1982, 83	1982, 83
Vegetation	1982, 83	1982, 83	1982, 83	1982, 83
Contours	1982, 83	1982, 83	1982, 83	1982, 83
All other features	1982, 83	1982, 83	1982, 83	1982, 83

Graphic not field checked

Horizontal Datum: World Geodetic System  
Vertical Datum: Mean Sea Level  
Transverse Mercator Projection

**GLOSSARY**

Cachoeira	waterfall
Enseada	bay, cove
Igarapé	stream
Ilha	island
Lago	lake
Parana	stream
Peças	rocks in water
Ponta	point
Rio	river
Rodovia	road



**CONVERSION OF ELEVATIONS**

FEET	METERS	FEET	METERS
1000	305	10000	3048
900	274	9000	2743
800	244	8000	2438
700	213	7000	2134
600	183	6000	1829
500	152	5000	1524
400	122	4000	1219
300	91	3000	914
200	61	2000	609
100	31	1000	305

**GEOREF**

BASIC 15' QUADRANGLE

55°30'	55°	54°
15°30'	15°	14°

**CAUTION**

AIR INFORMATION CURRENT THROUGH 2 DECEMBER 1983

**LINES OF EQUAL MAGNETIC VARIATION**  
FOR 1980  
(Annual rate of change (increase)  
LÍNEAS DE IGUAL VARIAÇÃO MAGNÉTICA  
PARA 1980  
(Índice anual de variação (aumento))

**CAUTION**

Vertical obstructions, including powerlines, have been extracted from the most reliable source available. However, there is no assurance that all are shown, or that their locations or heights are exact.

**ATTENTION**

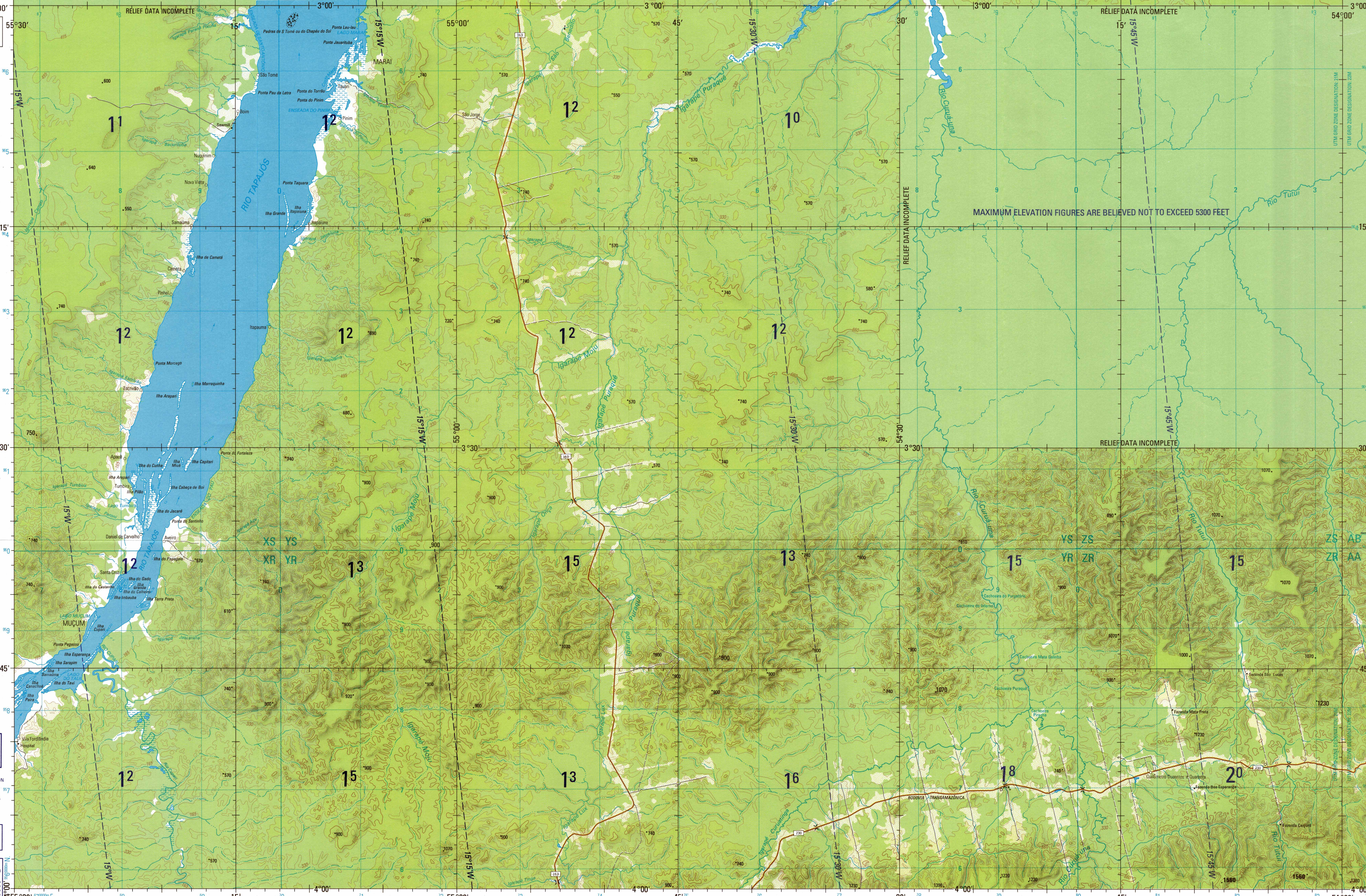
THIS CHART CONTAINS MAXIMUM ELEVATION FIGURES (MEF)

**LIMITED DISTRIBUTION**

**SCALE 1:250,000**

**AVEIRO, BRAZIL**

SERIES 1501 AIR SHEET SA 21-16 EDITION 1



PREPARED AND PUBLISHED BY THE DEFENSE MAPPING AGENCY AEROSPACE CENTER, 3200 SOUTH SECOND STREET, ST. LOUIS, MISSOURI 63118-3399. Compiled April 1993

MAP INFORMATION AS OF 1992  
INFORMAÇÃO CARTOGRÁFICA COM DATA DE 1992

**SAMPLE 10,000 METER GRID SQUARE**  
10,000 METROS DE QUADRADO

**SAMPLE 1,000 METER REFERENCE**  
1,000 METROS DE REFERÊNCIA

**RAILROADS — ESTRADAS DE FERRO**  
Normal gauge 0.914m (3')  
0.914 meters (3 feet) large or normal  
Narrow gauge  
Bola estreita

**BOUNDARIES — LIMITES**  
International International  
First-order administrative division Divisão administrativa de primeira classe

**VEGETATION — VEGETAÇÃO**  
Woods; Mangrove Floresta; Mangue  
Orchard-vineyard; Swamp Pomar-vitnhedo; Banhado

**ROADS — RODOVIAS**  
All weather, hard surface  
Transitável todo ano, revestimento sólido

**Two or more lanes wide**  
Dois ou mais vias de largura  
One lane wide  
Uma via de largura

**One or two lanes wide**  
Dois ou mais vias de largura  
One lane wide  
Uma via de largura

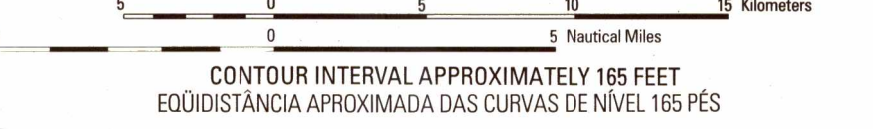
**Unimproved surface**  
Superfície não melhorada  
Unimproved surface  
Superfície não melhorada

**Unimproved surface**  
Superfície não melhorada  
Unimproved surface  
Superfície não melhorada

**Unimproved surface**  
Superfície não melhorada  
Unimproved surface  
Superfície não melhorada

**JOINT OPERATIONS GRAPHIC (AIR)**

SCALE 1:250,000



CONTOUR INTERVAL APPROXIMATELY 165 FEET  
EQUIDISTÂNCIA APROXIMADA DAS CURVAS DE NÍVEL 165 PÉS

COORDINATE CONVERSION FROM WGS-84 DATUM WGS-84 ELLIPSOID TO SAD-69 DATUM INTERNATIONAL ELLIPSOID  
CONVERSÃO DAS COORDENADAS DE DADO WGS-84 ELLIPSOID WGS-84 A DADO SAD-69 DATUM INTERNACIONAL ELLIPSOID

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AERODROMOS (Militares ou Cívicas)

**CONTROLLED AIRSPACE**  
ESPAÇO AÉREO CONTROLADO

**RADIO FACILITIES**  
INSTALAÇÕES DE RÁDIO

**RADIO AIDS TO NAVIGATION**  
RADIOAJUDAS À NAVEGAÇÃO

**VEGETATION**  
Woods; Mangrove Floresta; Mangue  
Orchard-vineyard; Swamp Pomar-vitnhedo; Banhado

**Visual Aids and Obstructions**  
OBSTACULOS E AJUDAS VISUAIS

**TERRAIN ELEVATIONS**  
ELEVACIONES DO TERRENO

**NOTES**

Powerlines are shown except within populated place tints. Other obstructions are shown if they are 200 feet or more above ground level. See caution note.

Mostam-se as linhas de alta tensão com exceção das áreas em tons que indicam as lagoas povoadas. Mostam-se outras obstruções com 200 ou mais pés acima do nível do terreno. Ver advertência.

On this graphic a line is generally considered as being 2.5 to 3.6 meters (8 to 12 feet) in width.

Neste gráfico considera-se que uma via tenha de 2,5 a 3,6 metros (8 a 12 pés) de largura.

In built-up areas only through routes are classified.

Sómente classificam-se as rotas em áreas edificadas.

Caution: Not all telephone and electric service lines are shown.

Precaução: Não mostram-se todas as linhas telefônicas ou elétricas.

The accuracy of all elevations shown on this graphic is not within 100 feet.

A precisão de todas as elevações no gráfico não é dentro 100 pés.

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NIMA REF. NO. 1501ASA2116