

**LEGEND**

**POPULATED PLACES**

- Over 20,000: TULÉAR, MANAKARA, IHOSY
- 5,000 to 20,000: Ejeda
- 2,000 to 5,000: Milinea
- 500 to 2,000: Milinea
- Less than 500: Milinea

**ROADS**

- All weather, hard surface: Principal, Secondary
- Two or more lanes: 3 LANES
- One lane: 2 LANES
- All weather, loose surface: 3 LANES
- Two or more lanes: 2 LANES
- One lane: 1 LANE
- Fair or dry weather, loose surface: 1 LANE
- Cart track: 1 LANE
- Trail (footpath): 1 LANE

**ROUTE MARKER**

- National: 15

**RAILROADS**

- Normal gauge 1.07 m. (3'6")
- Narrow gauge
- Station

**BOUNDARIES**

- International
- Primary administrative
- Reservation

**HORIZONTAL CONTROL POINTS**

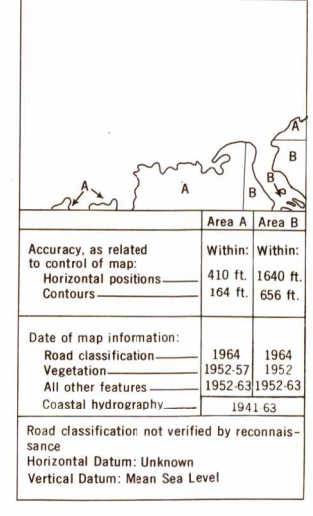
- Astronomic position
- Trigonometric position

**Spot elevation; Normal; Critical: 792 \*1640**

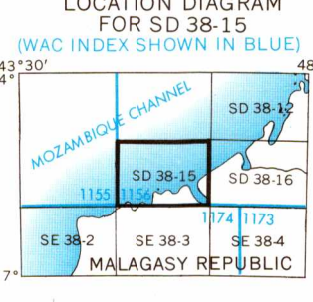
**VEGETATION**

- Woods/brushwood
- Scattered trees
- Orchard, plantation, vineyard
- Dunes, Crescent, Lateral
- Sand
- Distorted surface
- Escarpment; Levee
- Isolated rock; Mound; Cliff
- Church; School
- Kraal; Landmark feature or object; Mine
- Well; Spring; Salt evaporator
- Wadi; Sebka
- Land subject to inundation
- Swamp, marsh; Rice
- Depth curves in meters
- Wreck; Exposed; Sunken
- Rocks; Awash; Sunken
- Foreshore Flat; Mangrove
- Limit of danger; Reef
- Area name

**RELIABILITY OF THIS MAP**  
(As determined by standard positions)



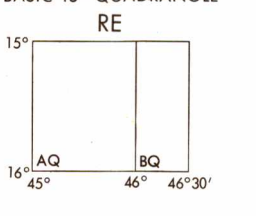
**LOCATION DIAGRAM**  
FOR SD 38-15



**GLOSSARY**

- Baie.....bay
- Banc.....sandbar
- Bouche.....rivermouth
- Bras.....arm of sea
- Cap.....Cape
- Domaine.....property
- Fleuve.....river, stream
- Forêt.....forest
- Île.....island
- Lac.....lake
- Nony.....island passage
- Passé.....channel, passage
- Pointe.....point
- Rivière.....river, stream
- Ruisseau.....stream

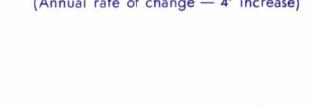
**GEOREF**  
BASIC 15° QUADRANGLE



**CAUTION**

AIR INFORMATION CURRENT THROUGH 22 AUGUST 1967. Consult Notices to Airmen (NOTAMS) and Flight Information Publications (FIPs) for the latest air information; the Chart Updating Manual (CHUM) for other chart revision information.

**LINE OF EQUAL MAGNETIC VARIATION FOR 1965**  
(Annual rate of change = 4' increase)



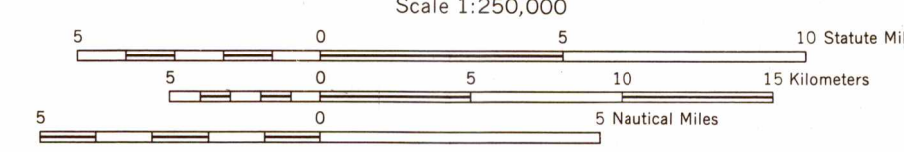
Prepared under the direction of the Defense Intelligence Agency and published by Army Map Service, Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1967 from best available source materials.

SCALE 1:250,000  
MAJUNGA,  
MALAGASY REPUBLIC

SERIES 1501 AIR SHEET SD 38-15 EDITION 1

AERONAUTICAL APPROACH CHARTS (Code AC) and/or AERONAUTICAL CHARTS (Code AC) completely within this area are discontinued. Those that are partially within this area should be retained until publication of the adjacent Joint Operations Graphic (Airs) 1501 AIR. Consult the DOD Bulletin for publication and discontinuance notices.

**JOINT OPERATIONS GRAPHIC (AIR)**



CONTOUR INTERVAL APPROXIMATELY 330 FEET WITH SUPPLEMENTARY CONTOURS AT 165 FOOT INTERVALS

LABORDE PROJECTION  
(Origin 18°54'S., 46°26'13.95"E. of Greenwich)

BLACK NUMBERED LINES INDICATE THE 10,000 METER MADAGASCAR GRID, HAYFORD 1969, INTERNATIONAL SPHEROID

TO GIVE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 1,000 METERS

IGNORE THE SMALLER FIGURES OF ANY GRID NUMBER; THESE ARE FOR FINDING THE FULL COORDINATES. USE ONLY THE LARGER FIGURES OF THE GRID NUMBER; EXAMPLE: 1130000

|   |        |   |
|---|--------|---|
| SAMPLE POINT: Antsiran  | 36     | 5 |
| 1. Locate first VERTICAL grid line to LEFT of point and read LARGE figure labeling the line either to the top or bottom margin, or on the line itself. Estimate within from grid line to point. | 36     | 5 |
| 2. Locate first HORIZONTAL grid line BELOW point and read LARGE figure labeling the line either to the left or right margin, or on the line itself. Estimate within from grid line to point.    | 13     | 1 |
| SAMPLE REFERENCE:   | 360131 |   |

USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NIMA CUSTOMER HELP DESK: 1-800-455-0000; COMMERCIAL: 314-260-5022; DSN: 480-5022; OR WRITE TO: DIRECTOR, NATIONAL IMAGE AND MAPPING AGENCY, ATTN: CDD, MAIL STOP P-37, 4800 SANGARE ROAD, BETHESDA, MD 20816-5003

- AERODROMES (Military or Civil)**
- EDNA/30's 725
  - Field limits with runway pattern
  - EDNA—Name
  - 50—Length of longest runway to nearest hundred of feet
  - Soft or unimproved surface
  - 725—Elevation
  - Field limits, with runway pattern unknown
  - Field limits unknown, with runway pattern
  - Field limits and runway patterns unknown
  - SEAPLANE BASE
  - SEAPLANE (EMERGENCY)
  - HELIPORT
  - RADIO FACILITIES
  - RADIO RANGE LF/MF
  - MULTIPLE RADIO FACILITIES

- MAGNETIC VARIATION**
- ISOGONIC LINE —7° E—
- VISUAL AIDS AND OBSTRUCTIONS**
- Obstruction 1108 (259)
  - 1108—Elevation of obstruction top, above sea level.
  - (259)—Elevation of obstruction top, above ground level.
  - Group obstruction
  - Radio facility obstruction
  - Power transmission line
  - Ocean station vessel (Normal position)
  - Visual ground sign
  - Aero light; Marine light
- TERRAIN ELEVATION**
- HIGHEST KNOWN elevation is 719 feet at 15°55'S., 46°32'E.

HIGHEST TERRAIN elevations for each 15 MINUTE QUADRANGLE are represented in THOUSANDS and HUNDREDS of feet. They are omitted where relief information is inadequate. A minus sign (-) following the figure indicates that the figure is based on an estimated elevation.

EXAMPLES:  
51 81-

**NOTES**

No obstructions 200 feet or more above ground level are known to exist within this area.

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