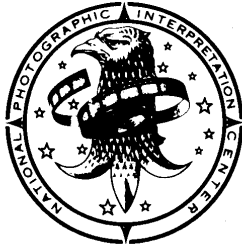


Top Secret



25X1



PHOOTOGRAPHIC
INTERPRETATION
REPORT

NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

CONSTRUCTION AND IMPROVEMENTS AT ANGOLAN AIRFIELDS, MARCH 1976 - JULY 1977 (S)

Top Secret



25X1

AUGUST 1977
Copy **133**
PIR-018/77

25X1



Warning Notice
Sensitive Intelligence Sources and Methods Involved
(WNINTEL)

NATIONAL SECURITY INFORMATION
Unauthorized Disclosure Subject to Criminal Sanctions



25X1

DISSEMINATION CONTROL ABBREVIATIONS

NOFORN-	Not Releasable to Foreign Nationals
NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
PROPIN-	Caution-Proprietary Information Involved
USIBONLY-	USIB Departments Only
ORCON-	Dissemination and Extraction of Information Controlled by Originator
REL...	This Information has been Authorized for Release to ...

Top Secret RUFF

25X1

**CONSTRUCTION AND IMPROVEMENTS AT ANGOLAN AIRFIELDS
MARCH 1976—JULY 1977 (S)**

1. (TSR) This report summarizes construction and improvements at airfields in Angola as observed on satellite imagery from March 1976 to July 1977. Figure 1 shows the location of these airfields and is keyed to Table 1 which indicates the status of the construction and improvements. A description of the activity at these airfields follows.

2. (TSR) [redacted] showed that the runways at Pereira de Eca and Serpa Pinto were damaged and unserviceable. [redacted] Pereira de Eca Airfield, the craters that had probably been caused by set charges on the approximately 2,500-meter blacktop runway had been repaired, and the facility appeared to be serviceable. No aircraft were present. Likewise, [redacted] of Serpa Pinto Airfield showed that damage to the approximately 3,570-meter northwest/southeast blacktop runway, link taxiways, and parking aprons had been repaired, and the facility was operational. Two FISHBED and two CURL aircraft were observed.

25X1

25X1

25X1

3. (TSR) A new serviceable airfield, Mocamedes Airfield New, was identified 4 nautical miles (nm) south of Mocamedes [redacted]. The airfield has an approximately 2,500-by 30-meter east-northeast/west-southwest blacktop runway and 20 revetted hardstands, eight of which are along a dispersal taxiway on the north side of the airfield (Figure 2). The facility is to be for joint civil-military use and is approximately 130 nm north of the Angola-Namibia border.

25X1

4. (TSR) Two additional airfields were observed under construction; however, work has halted on both of the facilities. Construction appears to have stopped on the natural-surface runway at Lobito Airfield Southwest, a facility first identified [redacted] this installation [redacted] showed no activity. Construction also appears to have ceased at Cabo Ledo Airfield, approximately 50 nm south of Luanda. [redacted] the approximately 2,400-meter west-southwest/east-northeast runway had been in an early-to-mid stage of construction; a parking apron, two link taxiways, and support buildings were also under construction (Figure 3). On subsequent coverage [redacted] no additional construction was observed either the runway or support facilities.

25X1

25X1

25X1

25X1

5. (TSR) Revetted hardstands, each large enough to accommodate a jet fighter, have been constructed at six different airfields within Angola, including Cabinda. At one of these airfields, Nova Lisboa (Huambo), some of the hardstands had been removed. [redacted] ten completed revetted hardstands and two hardstands under construction were observed. [redacted] only four of these hardstands were usable, the remainder having been leveled. In addition to the construction of the hardstands at Luanda Airfield, the approximately 3,740-meter northeast/southwest runway has been resurfaced. FISHBED, FRESCO, and transport aircraft are regularly seen at this installation. The total of revetted hardstands at these airfields is summarized in Table 1.

25X1

25X1

25X1



Top Secret

25X1

Top Secret RUFF

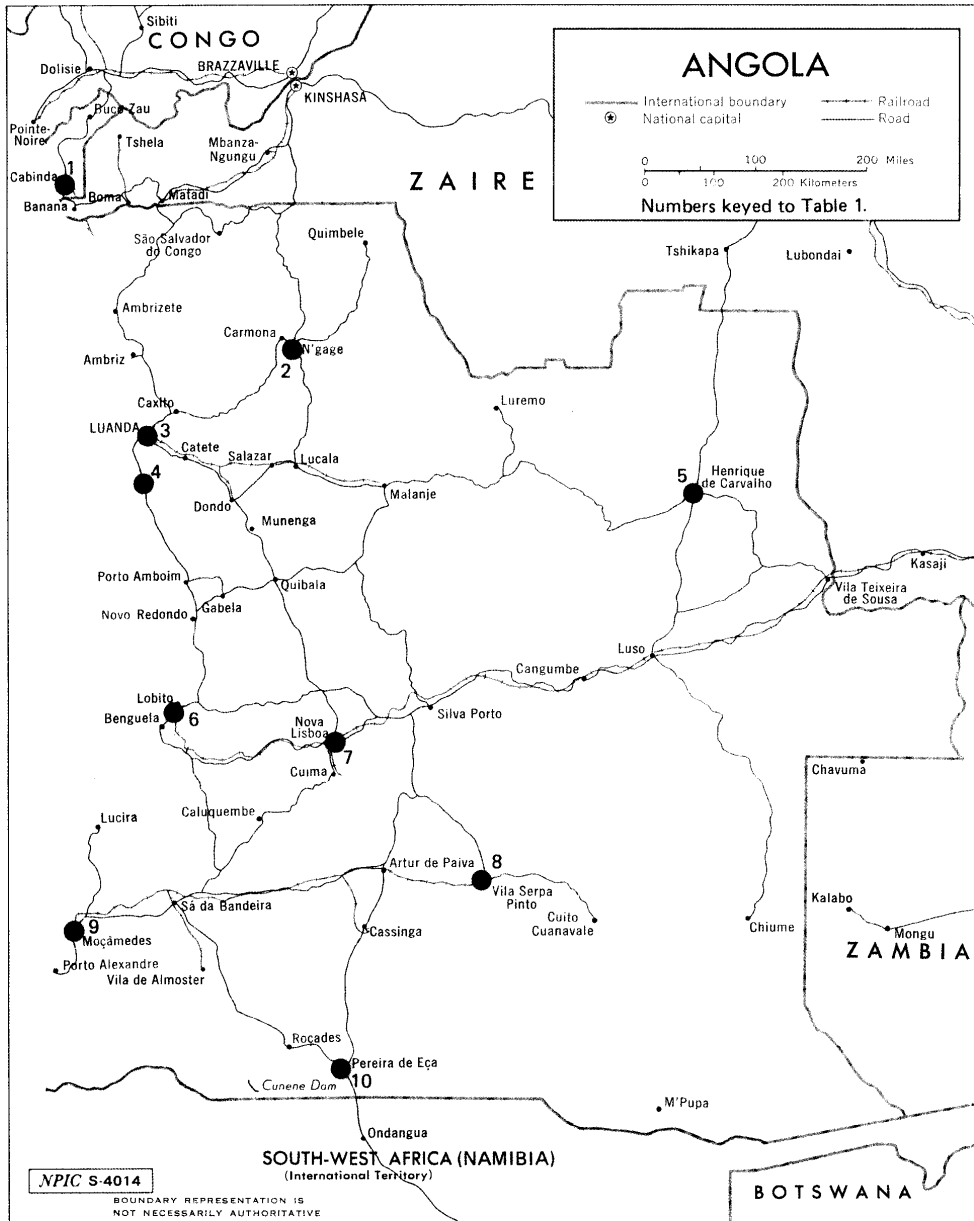


FIGURE 1. LOCATIONS OF AIRFIELD CONSTRUCTION AND IMPROVEMENTS IN ANGOLA

Table 1. Airfield Construction and Improvements (Items keyed to Figure 1)

This table in its entirety is classified TOP SECRET RUFF

Item	Airfield	Construction Status
1	Cabinda Airfield	12 revetted hardstands
2	Ngage Airfield	3 revetted hardstands
3	Luanda Airfield	26 revetted hardstands; runway resurfaced
4	Cabo Ledo Airfield	Construction halted on runway
5	Henrique de Carvalho (Saurimo) Airfield	8 revetted hardstands
6	Lobito Airfield SW	Construction halted on runway
7	Nova Lisboa (Huambo) Airfield	4 revetted hardstands
8	Serpa Pinto Airfield	Repaired runway now serviceable
9	Mocamedes Airfield New	New serviceable airfield with 20 revetted hardstands
10	Pereira D Eca Airfield	Repaired runway now serviceable

25X1

Top Secret

25X1

Top Secret RUFF



REFERENCES



MAPS OR CHARTS

DMA. Operational Navigational Charts, Sheets M-3, N-3, and P-3, scale 1:1,000,000 (UNCLASSIFIED)

REQUIREMENT

Project 143480ND



Top Secret

25X1



List of Conversion Factors by Classification

UNITS OF LENGTH

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
MILLIMETERS	0.0394	INCHES
CENTIMETERS	0.3937	INCHES
INCHES	25.4000	MILLIMETERS
INCHES	2.5400	CENTIMETERS
FEET	0.3048	METERS
FEET	0.0003	KILOMETERS
YARDS	0.9144	METERS
METERS	3.2808	FEET
METERS	0.0005	MILES(NAUTICAL)
METERS	1.0936	YARDS
KILOMETERS	3280.8400	FEET
KILOMETERS	0.6214	MILES(STATUTE)
KILOMETERS	0.5400	MILES(NAUTICAL)
MILES(STATUTE)	1.6093	KILOMETERS
MILES(NAUTICAL)	6076.1154	FEET
MILES(NAUTICAL)	1.8520	KILOMETERS
MILES(NAUTICAL)	1852.0000	METERS

UNITS OF MASS

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
KILOGRAMS	2.2046	POUNDS(AVOIR.)
POUNDS(AVOIR.)	0.4536	KILOGRAMS
SHORT TONS	0.9072	METRIC TONS
METRIC TONS	1.1023	SHORT TONS
METRIC TONS	0.9842	LONG TONS
LONG TONS	1.0160	METRIC TONS

UNITS OF VOLUME

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
LITERS	0.2642	GALLONS
LITERS	0.0063	BARRELS(POL)
LITERS	0.0010	CUBIC METERS
GALLONS	3.7854	LITERS
GALLONS	0.1337	CUBIC FEET
GALLONS	0.0238	BARRELS(POL)
GALLONS	0.0038	CUBIC METERS
BUSHELS	0.0352	CUBIC METERS
CUBIC FEET	7.4805	GALLONS
CUBIC FEET	0.1781	BARRELS(POL)
CUBIC FEET	0.0283	CUBIC METERS
CUBIC YARDS	0.7646	CUBIC METERS
BARRELS(POL)	158.9873	LITERS
BARRELS(POL)	42.0000	GALLONS
BARRELS(POL)	5.6146	CUBIC FEET
BARRELS(POL)	0.1590	CUBIC METERS
CUBIC METERS	1000.0000	LITERS
CUBIC METERS	264.1721	GALLONS
CUBIC METERS	35.3147	CUBIC FEET
CUBIC METERS	28.3776	BUSHELS
CUBIC METERS	6.2898	BARRELS(POL)
CUBIC METERS	1.3080	CUBIC YARDS

UNITS OF AREA

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
SQUARE CENTIMETERS	0.1550	SQUARE INCHES
SQUARE INCHES	6.4516	SQUARE CENTIMETERS
SQUARE FEET	0.0929	SQUARE METERS
SQUARE YARDS	0.8361	SQUARE METERS
SQUARE METERS	10.7639	SQUARE FEET
SQUARE METERS	1.1960	SQUARE YARDS
SQUARE METERS	1.0000	CENTARES
SQUARE METERS	0.0002	ACRES
SQUARE METERS	0.0001	HECTARES
ACRES	4046.8564	SQUARE METERS
ACRES	0.4047	HECTARES
HECTARES	10000.0000	SQUARE METERS
HECTARES	2.4711	ACRES

Top Secret



Top Secret