

III a (17)

CHIBA

28

TARGET NO. 90.14 NAME Chiba ZONE 1

CONTENTS

TARGET INFORMATION

J.T.G.

AC/AS

OTHER REPORTS

MOSAIC _____

100 OAS
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C. I. U.
XXI BOMBER COMMAND
APO 234, c/o POSTMASTER

14 July 1945

DAMAGE ASSESSMENT REPORT NO. 135

CHIBA CITY

Mission No.: 3PR5M 330

Target Area: Mito (90.14)

Date Flown: 10 July 1945

SUMMARY

Chiba City damage resulting from XXI Bomber Command Mission 251 of 6-7 July 1945 is .86 square mile or about 43.4 percent of the built up portion of the city (1.98 sq.mi. as determined from photos).

Damage is concentrated in the central part of the city; from the W shoreline extending E to the end of the main part of the built up area.

Little or no damage is in the N portion of the built up area along the W coast and inland about 1500', and in the S portion along the shoreline and inland about 3200'. No numbered targets or important industrial areas are in these areas.

ITEMIZATION of AREA DAMAGE

	Sq.Mi.	Sq.Mi.	Percent of Area Damaged	Percent of Damage
The built up urban area (residential and commercial concentration) runs along the coastline for about two miles and extends inland NE about 6200'.	1.98	.86		43.4

Reference: AAF Air Objective Folder 90.14, 15 March 1943.

Post-strike Photos: 3PR5M 330--3: 30-32

Inclosures: 1. Semi-controlled mosaic showing damage.
2. Post-strike print 3PR5M 330-3: 31

Approved... *HAMILTON D. DARBY*
HAMILTON D. DARBY,
MAJOR, AC

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C. I. U.
TWENTIETH AIR FORCE
APO 234, c/o POSTMASTER
SAN FRANCISCO, CALIFORNIA

22 July 1945

SPECIAL SUPPLEMENT TO DAMAGE ASSESSMENT REPORT 135

CHIBA-90.14-URBAN

XXI Bom Com Mission 251 6-7 July 1945

TARGETS WITHIN BUILT-UP AREA:

DAMAGE

Numbered targets: None

Other targets:

RR Junction, Station, Yards, Roundhouse	Minor damage
Military Depot Area (ordnance)	40% destroyed
RR Regiment Warehouses	Minor damage, 2 buildings destroyed
Infantry School	25% destroyed
Powder Magazine	None visible
RR Regiment	55% destroyed
Warehouses	5% destroyed
Harbor Installations	None visible
Gas Plant	None visible

TARGETS OUTSIDE BUILT-UP AREA: (within 5 miles radius of center of city)

Numbered targets:

90.14-2145 Hitachi A/C Co., Chiba Plant	None visible
90.14-1470 Shimoshizu Airfield	None visible

Other targets:

Tokyo Central Telegraph Co.	None visible
Military Camp	None visible

Approved, *Hamilton D. Darby*
HAMILTON D. DARBY,
MAJOR, AC

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34 R 5 M 350 351

POST STRIKE
TARGET - OSAKA
90.14 - URBAN
XXL B.C. MISSION NO. 251
6 JULY 1945
DAMAGE ASSESSMENT REPORT 135
G.U. XXI BOM. COM.

31

1903

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Target: Chiba

90.14 - Urban

XXI B. C. - Mission 251

6-7 July 1945

Damage Assessment Report 135

C.I.U. XXI Bom. Com.



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MISSION SUMMARY

Mission Number 251

16 July 1945

1. Date: 6/7 July 1945
2. Target: Chiba Urban Area
3. Participating Unit: 53th Bombardment Wing
4. Number A/C Airborne: 129
5. % A/C Bombing Primary: 95.48% (124 primary and 1 opportunity)
6. Type of Bombs and Fuzes: AN-M47A2, 100# incendiary bombs instantaneous nose, E46, 500# incendiary cluster with tail set to open 5000 feet above target, T4E4, 500# fragmentation cluster with nose set to open 1000 feet below A/C.
7. Tons of Bombs Dropped: 889.5 tons on primary and 6.3 tons on opportunity.
8. Time Over Primary: 070239K - 070405K
9. Altitude of Attack: 9900 - 11,500 feet
10. Weather Over Target: 10/10
11. Total A/C Lost: 0
12. Resumé of Mission: Interrogation of crews indicated scattered fires were started in the target area, with smoke rising to 25,000 feet. Photo reconnaissance revealed that 43.4% (.86 sq. miles) of Chiba's urban area had been destroyed or damaged. Five A/C bombed visually and the remainder by radar. Four A/C were non-effective. Flak encountered was heavy, medium and light, nil to meager and inaccurate. Eighteen E/A sighted made 1 attack. Fourteen B-29's landed at Iwo Jima. Average bomb load: 14,974 lbs. Average fuel reserve: 842 gallons.

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NOT TO BE TAKEN
INTO THE AIR ON
COMBAT MISSIONS

TARGET: Chiba Urban Industrial Area

OBJECTIVE AREA: 90.14-MITO

T A R G E T I N F O R M A T I O N S H E E T

CHIBA URBAN AREA

Latitude: $35^{\circ} 36' N$
Longitude: $140^{\circ} 07' E$
Elevation: Sea Level

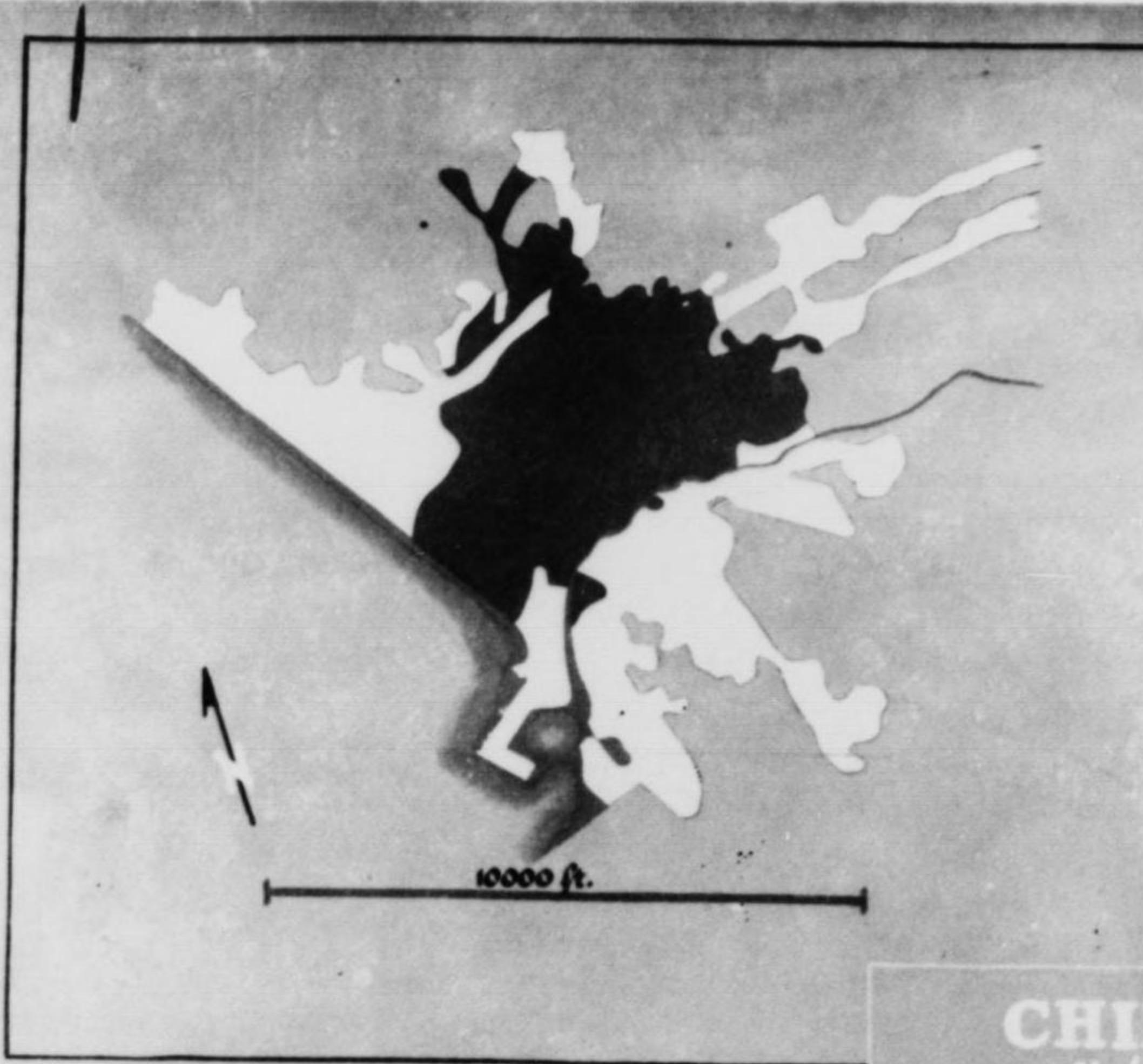
1. SUMMARY COMMENT: Chiba is the key city in the military defense of the CHIBA peninsula which guards TOKYO and is believed to be most heavily fortified area in Japan. It is a transportation hub, the site of military establishments, undoubtedly supplies the labor for the large, new HITACHI Aircraft Co. plant (Target No. 90.14-2145) which lies at the southern outskirts of the city.

2. LOCATION & IDENTIFICATION: CHIBA is located about 20 miles around the shore of Tokyo Bay from TOKYO. It lies at the upper NE corner of the Bay, and part of its waterfront industry is on reclaimed land. The city of CHIBA can be readily identified as the largest on the eastern shore of TOKYO BAY. Three railway lines aim at the city from the north and branches of these lines continue S, SE and NE. A good landmark is the large reclaimed land area on which is built the HITACHI Aircraft factory. The city is just north of this factory. On approaching the city from the north, prominent factory type buildings lie at the north outskirts and a railway line forms a hairpin pointed at the city.

3. TARGET DESCRIPTION: CHIBA stretches lengthwise along TOKYO BAY about $3\frac{1}{2}$ miles north-south. At its widest, it extends about 1 mile inland. New war industries, expansion of military establishments and traffic are believed to have increased the city's population to about 75,000.

CHIBA is a rather old city, and its homes probably are the familiar plaster, wood and tile pattern, highly susceptible to incendiary attacks.

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POPULATION
92,061
BUILT-UP AREA
1.98
PTA 1.2 SQ. MI.

CHIBA
Urban

MISSION N°	251		
DAMAGE	.86 SQ.MI. 43.4 %		
WINGS	58		
DATE	6/7 JULY '45		
DAY/NIGHT	NIGHT		
BOMB TYPE	INCEND.		
AV. LOAD	14974		
A/C AIRBORNE	129		
A/C BOMB. P.T.	124		
TONS ON P.T.	889.5		
ALTITUDE	9,900-11,500		
BOMB. METH.	5V-119 R		
CLAIMS	0		
LOSSES	0		

M47-INST- 350T
T4E4- 1000' BELOW A/C 60T
E46- 5000' ABOVE 41ST

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NOT TO BE TAKEN
INTO THE AIR ON
COMBAT MISSIONS

TARGET: Chiba Urban Industrial Area
OBJECTIVE AREA: 90.14-MITO

T A R G E T I N F O R M A T I O N S H E E T

CHIBA URBAN AREA

Latitude: 35° 36' N.
Longitude: 140° 07' E
Elevation: Sea Level

1. SUMMARY COMMENT: Chiba is the key city in the military defense of the CHIBA peninsula which guards TOKYO and is believed to be most heavily fortified area in Japan. It is a transportation hub, the site of military establishments, undoubtedly supplies the labor for the large, new HITACHI Aircraft Co. plant (Target No. 90.14-2145) which lies at the southern outskirts of the city.
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CHIBA is a rather old city, and its homes probably are the familiar plaster, wood and tile pattern, highly susceptible to incendiary attacks.

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The homes of the city are crowded together, and the bulk of the population is concentrated in a square of about 3/4 of a mile, surrounding the central RR station.

The river emptying into the Bay at the city's SW corner may act as a firebreak through the south central portions, but does not affect the area of greatest population density. No other firebreaks are visible in photographs.

4. IMPORTANCE: Railroads through CHIBA undoubtedly are being used almost entirely for military shipments. Of the three lines entering the city from the north, one is reserved for military use, and has sidings into depot warehouses in the north central section of the city.

Located in this area is an infantry officers training school, the barracks of several railway units and their warehouses, and the Chiba Ordnance Branch Dep't. A balloon regiment's barracks and a military hospital are also located in this area at the north end of the city.

CHIBA's most important industrial establishment is its newest - the plant of the HITACHI Aircraft Co. (Target 2145). With German assistance, this plant was designed in 1943 as a factory for the mass production of aircraft engines and airframes. Its goal of producing complete fighter (ZEKE) and bomber (FRANCES) aircraft was never reached because of difficulties in obtaining construction materials and plant machinery. The factory is believed to be producing instead only a small number of low-powered engines, fuel tanks and wooden control surfaces and wings for military transports. Estimated number of workers totals about 16,000, and probably one half of these are directly employed in making aircraft components.

This plant is the only target numbered to date at CHIBA.

A successful incendiary attack against the urban area of CHIBA would cripple and bolt the rail transport of considerable military supplies destined to aid in the defense of the TOKYO area. It might also destroy many warehouses containing supplies, and military barracks areas and the ordnance depot. It would dehouse considerable portion of the workers at the HITACHI Aircraft factory, and add to the difficulties already encountered in getting this plant into mass production.

5. AIMING POINTS: Aiming points will be specified in Field Order.

~~SECRET~~


MISSION SUMMARY


Mission Number 251


16 July 1945


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3. Participating Unit: 53th Bombardment Wing
4. Number A/C Airborne: 129
5. % A/C Bombing Primary: 95.48% (124 primary and 1 opportunity)
6. Type of Bombs and Fuzes: AN-M47A2, 100# incendiary bombs instantaneous nose, E46, 500# incendiary cluster with tail set to open 5000 feet above target, T4E4, 500# fragmentation cluster with nose set to open 1000 feet below A/C.
7. Tons of Bombs Dropped: 889.5 tons on primary and 6.3 tons on opportunity.
8. Time Over Primary: 070239K - 070405K
9. Altitude of Attack: 9900 - 11,500 feet
10. Weather Over Target: 10/10
11. Total A/C Lost: 0
12. Resume of Mission: Interrogation of crews indicated scattered fires were started in the target area, with smoke rising to 25,000 feet. Photo reconnaissance revealed that 43.4% (.86 sq. miles) of Chiba's urban area had been destroyed or damaged. Five A/C bombed visually and the remainder by radar. Four A/C were non-effective. Flak encountered was heavy, medium and light, nil to meager and inaccurate. Eighteen E/A sighted made 1 attack. Fourteen B-29's landed at Iwo Jima. Average bomb load: 14,974 lbs. Average fuel reserve: 842 gallons.


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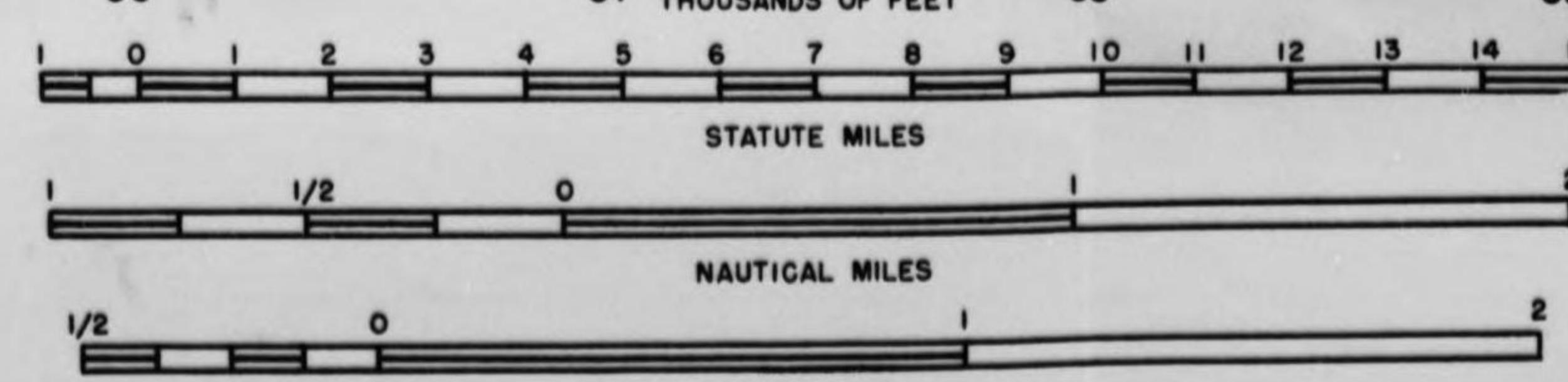








NO	DESIGNATION	ELEV
2145	HITACHI A/C CO. CHIBA PLANT	10'

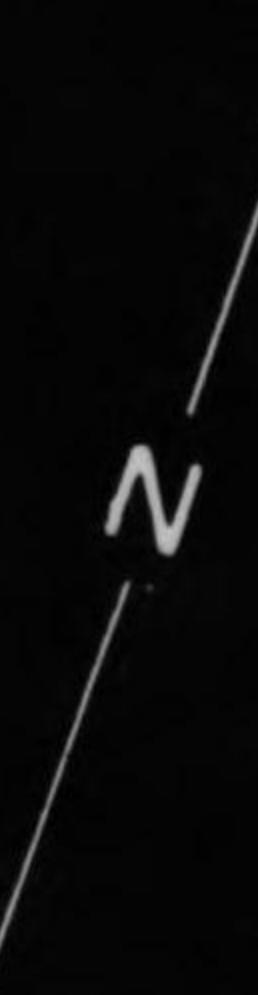


COMPASS ROSE INDICATES
MAGNETIC BEARING TOWARD
THE TARGET

MAG DEC 5°51' W (1945)
ANNUAL MAGNETIC
CHANGE 2' INCREASE



MAG DEC
5°51' W
ANNUAL
CHANGE
2' INC



2145

CHIBA AREA
HITACHI AIRCRAFT CO
TARGET 90.14 - 2145
 $35^{\circ}35'N$ - $140^{\circ}07'E$
ELEVATION 10 FT (APPROX)
MAY 1945

A-2 SECTION
XXI BOMBER COMMAND
3D PHOTO RCN SQ PHOTOS

17 APRIL 1945

PREPARED BY 949TH ENGR AVN TOPO CO

2000

0

2000

4000

APPROX SCALE

6000

8000

10000

12000

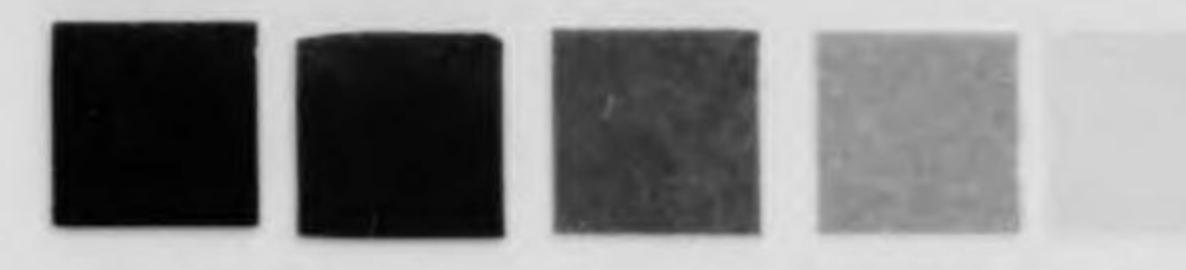
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16000

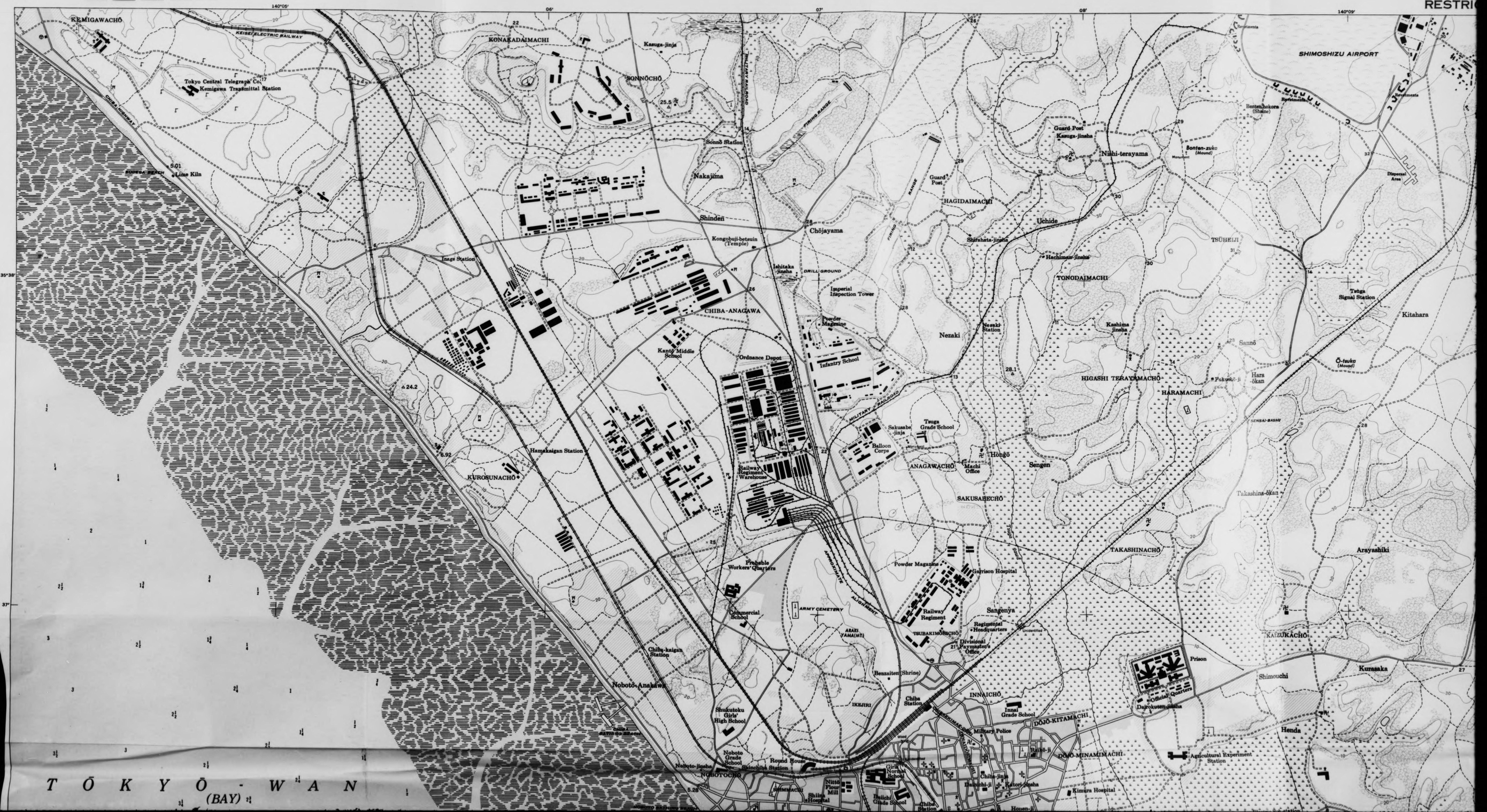
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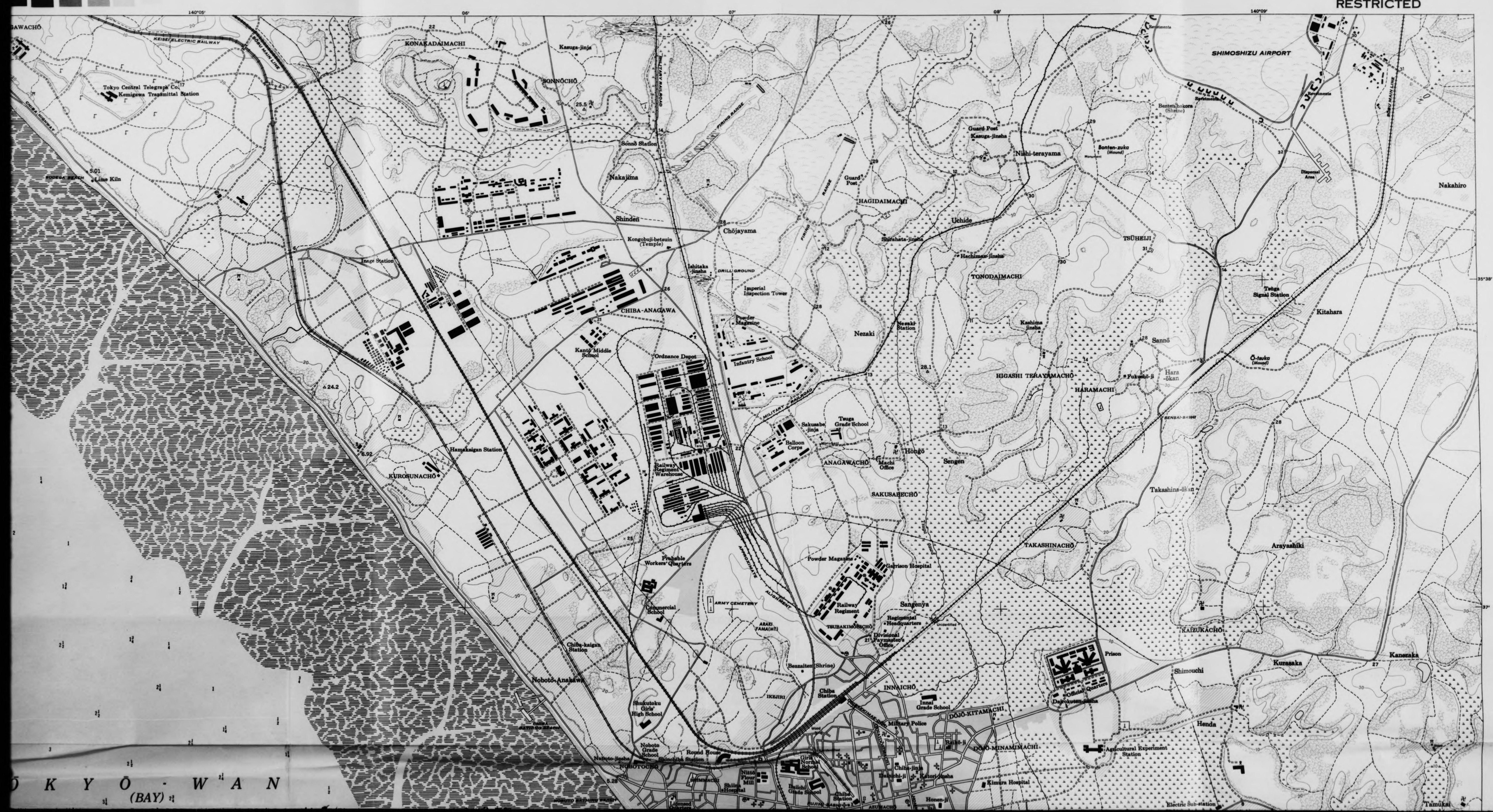




RESTRI



RESTRICTED



K Y O - W A N
(BAY)

CHIBA
PREFECTURE, HONSHU, JAPAN

Scale 1:12,500

0 500 Meters
0 500 Yards

POLYCONIC PROJECTION
CONTOUR INTERVAL 10 METERS

Air Staff, Intelligence, Washington, D.C.
General, U. S. Army Forces, under the direction of the
Army Map Service, (GU), Washington, D.C., March, 1945.

Imperial Land Survey, Sogane (1925) Chiba East, Chiba West (1932) (trigonometric survey—base map)
Imperial Land Survey, Sogane (1932) (trigonometric survey—base map) 3. Narashino
Imperial Land Survey, 1:10,000 (1933) (trigonometric survey—base map) 4. Japanese Hydrographic
Survey (1940) (clear—added streets and buildings, partial revision) 5. Vertical Aerial Photography, c. 1:64,000, XX USAAF, 3PR
(Nov., 1944) (clear—added streets and buildings, partial revision) 6. Vertical Aerial Photography,
BS/4625AC/4M6 (40°, 29.80' /V31, 3°, 45.50') (clear—reclaimed land, added buildings) 8. Surveyed Map
4M1 6°, 32,500' 1:1, 20-28 (Nov., 1944) (clear—reclaimed land, added buildings) 9. Japanese Government Railway
Map (1934) (diagrammatic plan—added buildings, streets, symbols) 9. Japanese Government Railway
Map (1934) (diagrammatic plan—added buildings, streets, symbols) 10. Intelligence Data (location of buildings) Names transcribed according to the Modified
Kunrei Phonetic Transliteration System

LEGEND

National or Prefectural Road
generally metalled over 4m. wide,
or Streets in City Area

Other Roads 2-4m. wide

Road, Track or Trail
less than 2m. wide

3' Gauge, Single Track Railroad

3' Gauge, Double Track Railroad

4' 8 1/2" Gauge, Single Track Railroad

Narrow Gauge, Double Track Railroad

Railroad Station

High Tension Power Line

Woodland

Grassland

Bamboo

GLOSSARY

-bashi
-don, -dori
-gawa
-ji
-jinja, -insha
-machi, -cho
-yama

bridge
street
river
temple
shrine
precinct

INDEX TO SOURCES

3 & 5	2 & 6
1 & 5	
5 & 8	1 & 5
4	
7	1

Unlabeled bridges are wooden.

METERS, DEPTHS IN FATHOMS AT NEARLY LOWEST LOW WATER
140°05'

RESTRICTED

FOR USE WITH AAF AIR OBJECTIVE FOLDER MITO 90.14

NOTE: Officers using this chart will mark heron corrections and additions
which come to their attention and mail direct to "AERONAUTICAL CHART
SERVICE, HEADQUARTERS ARMY AIR FORCES, WASHINGTON, D.C."

ARMY MAP SERVICE, U. S. ARMY, WASHINGTON, D.C. 340706
MARCH 1945
345

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TWENTIETH AIR FORCE
APO 234, c/o POSTMASTER
SAN FRANCISCO, CALIFORNIA

22 July 1945

SPECIAL SUPPLEMENT TO DAMAGE ASSESSMENT REPORT 135

CHIBA-90.14-URBAN

XXI Bom Com Mission 251 6-7 July 1945

TARGETS WITHIN BUILT-UP AREA:

DAMAGE

Numbered targets: None

Other targets:

RR Junction, Station, Yards, Roundhouse	Minor damage
Military Depot Area (ordnance)	40% destroyed
RR Regiment Warehouses	Minor damage, 2 buildings destroyed
Infantry School	25% destroyed
Powder Magazine	None visible
RR Regiment	55% destroyed
Warehouses	5% destroyed
Harbor Installations	None visible
Gas Plant	None visible

TARGETS OUTSIDE BUILT-UP AREA: (within 5 miles radius of center of city)

Numbered targets:

90.14-2145	Hitachi A/C Co., Chiba Plant	None visible
90.14-1470	Shimoshizu Airfield	None visible

Other targets:

Tokyo Central Telegraph Co.	None visible
Military Camp	None visible

Approved *Hamilton D. Darby*
HAMILTON D. DARBY,
MAJOR, AC

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C. I. U.
XXI BOMBER COMMAND
APO 234, c/o POSTMASTER

14 July 1945

DAMAGE ASSESSMENT REPORT NO. 135

CHIBA CITY

Mission No.: 3PR5M 330

Target Area: Mito (90.14)

Date Flown: 10 July 1945

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Reference: AAF Air Objective Folder 90.14, 15 March 1943.

Post-strike Photos: 3PR5M 330--3: 30-32

Inclosures: 1. Semi-controlled mosaic showing damage.
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Approved... Hamilton D. Darby
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POST STRIKE
TARGET - COBA
90.14 - URBAN
XXI B.C. MISSION NO. 251
1 JULY 1945
DAMAGE ASSESSMENT REPORT 135
XXI BOM. COM.

Target: Chiba
90:14 - Urban
XXI B. C. - Mission 251
6-7 July 1945
Damage Assessment Report 135
C.H.U. XXI Bom. Com.

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Damaged

Sparingly Damaged

ONE MILE (APPROX.)