

III a (20)

YOKOHAMA

2 of 2

38



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NOT TO BE TAKEN  
INTO THE AIR ON  
COMBAT MISSIONS

TARGET NO: 90.17-3607

OBJECTIVE AREA: 90.17-Yokohama UA/1

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

TARGET: 90.17-3607

YOKOHAMA UA/1

Latitude: 35° 29' N  
Longitude: 139° 39' E  
Elevation: 10-150 feet

1. SUMMARY COMMENT: Principally important for auto and truck assembly, oil refining and storage, alumina and basic chemicals, the area also contains shipyards, electrical equipment plants and military storage areas.
2. LOCATION AND IDENTIFICATION: (a) For location and identification of Yokohama City, see TARGET INFORMATION SHEET: TOKYO URBAN INDUSTRIAL AREA, 9 March 1945 (b) For location and identification of the Target Area, see Annotated TARGET CHART, JAPAN No. 128, attached to New AAF Target Number/Name Assignment Report No. 9, 14 April 45. These Target Charts received Wing and Group distribution.
3. TARGET DESCRIPTION: Running in a northeasterly direction along the coast from the center of Yokohama City into the Tsurumi industrial section, this area is similar in character to TARGET 3605, situated to its immediate northeast on the other side of the Tsurumi River, boundary line between the two. Its main area consists, like that of 3605, in a series of irregularly shaped squares of reclaimed land jutting distinctively into the harbor. There are three of these square projections, the first two on the south or Yokohama end being relatively small, and the next one more than twice their size and characterized by an indentation on the southwest side, a large artificial waterway affording entrance for ships. All three squares are attached to the mainland and to each other by distinctive roadways.

The target area extends well inland from these squares of reclaimed land, going as far as the Tokaido main line running between Tokyo and Yokohama. The area thus encompassed is more residential in character than the purely industrial region out towards the harbor, and is accordingly considered to be in Incendiary Zone II. Except for railroads, highways, and some open spaces for fire towers, etc., the place is solidly built up.



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As it approaches the center of Yokohama, this target area becomes more terminal-like in character, being a maze of warehouses, docks, canals, railroad spurs, and storage areas. The extreme southwestern tip of the area merges on downtown Yokohama, a well built, modern metropolis.

4. IMPORTANCE: From the point of view of transportation in all its phases, this area has real significance. Yokohama was one of pre-war Japan's two greatest ports. It still ranks high in this respect, although the war has increased the relative importance of cities to the west. It is also a rail and highway junction and terminal. Even a large part of the manufacturing engaged in this target area produces the vehicles of transportation, notably trucks and ships:

- 522 - NISSAN AUTO CO. - With Toyoda Auto Co. at Koromo near Nagoya (TARGET 1139), Nissan produces almost half of Japan's military trucks and as such is a target of great importance. Part of the factory is thought to be engaged in the manufacture of shells, guns and even a/c parts.
- 70 - ASANO DOCK YARD - Almost entirely a repair yard, it is outfitted with two drydocks.
- 71 - URAGA DOCKYARD NO. 3 - Workshops, warehousing, and offices of the Uraga Dock Co.
- 66 - TAKASHIMA FREIGHT YARD - Most important ship-to-shore transfer point in area; warehouses, tracks, RR spurs.
- 63 - KANOGAWA STEAM POWER STATION - Capacity 21,500 KW - well constructed steel/concrete building.
  
- 1451 - NANIWA WAREHOUSE - (STORAGE)
- 1446 - EAST ASIA DEVELOPMENT CO. WAREHOUSES "
- 1445 - YOKOHAMA HARBOR PURCHASING CO. WAREHOUSES "
- 1441 - YOKOHAMA WAREHOUSE (North) "
- 1447 - HIRAIDZUME DRUG DEPOT "
- 1442 - YOKOHAMA WAREHOUSE (SOUTH) "
  
- 89 - EASTERN PETROLEUM REFINERY - Oil and asphalt. Capacity is 500 bbl. per day. No cracking.
  
- 94 - NISSO OIL STORAGE - Formerly known as Matsukata. At least 8 tanks. A little inland from these, almost due north, are seven new government-owned tanks said to be known as "Kyodo Kigyo".
  
- 90 - ORIENTAL OIL CO. - Capacity 500 bbls. per day. Produces oil and gasoline. No cracking.



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- 87 - OGURA OIL CO. - Largest refinery and tank farm, in dimensions, in the area. Capacity 7,000 bbl. daily; 1000 bbl. used in cracking. Covering a wide area, it also has twenty storage tanks.
- 521 - JAPAN ELECTRO-CHEMICAL CO. - One of the most important alumina plants in the Empire.
- 80 - NIIGATA SULPHURIC ACID CO. - Regarded as a small capacity plant even including another unidentified installation across RR tracks to the north.
- 88 - JAPAN AMERICAN OIL CO. - Dealers in fuel oil, gasoline, with some warehouse storage.
- 72 - FORD MOTOR CO. - Assembly machinery said to have been moved to Manchuria. Present activity in doubt, but it may be machine gun shells, small arms.
- 498 - KURADA IRON WORKS - Welded steel bus bodies, steel hulls. Fits guns on small boats.
- 499 - NIPPON CARBON CO. FACTORY NO. 1 - Largest factory of the main producer of carbon electrodes in Japan, which produced approximately 15,000 tons as long ago as 1938.
- 523 - JAPAN RADIO & PHONOGRAPH CO. - This is the well known Victor plant, taken over by the Japs, and producing field radio sets for the Army.
- 1439 - YOKOHAMA CENTRAL WHOLESALE MARKET - Fresh food and fish; handles at least 100,000 tons annually.

NOTE: TARGET INFORMATION SHEET 90.17-3602 was erroneously called Tokyo UA/2. It should have been Tokyo UA/3.

24 May 1945.

TARGET SECTION, A-2  
XXI Bomber Command



*file* *Yokohama City*

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*File*  
*10*

NOT TO BE TAKEN  
INTO THE AIR ON  
COMBAT MISSIONS

TARGET NO: 90.17-3608

OBJECTIVE AREA: 90.17-TOKYO

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

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TARGET 90.17-3608

YOKOHAMA UA/1

Latitude: 35° 28' N  
Longitude: 139° 38' E  
Elevation: 10 - 150 feet

1. SUMMARY COMMENT: The area contains an important shipyard, as well as electrical and communications equipment plants, small chemical plants, and extensive freight yard and waterfront storage areas.

2. LOCATION AND IDENTIFICATION: (a) For location and identification of Yokohama City, see TARGET INFORMATION SHEET: TOKYO URBAN INDUSTRIAL AREA, 9 March 45. (b) For location and identification of the Target Area, see Annotated TARGET CHART JAPAN NO. 1354, attached to New AAF Target Number/Name Assignment Report No. 9, 14 April 45. These Target Charts received Wing and Group distribution.

3. TARGET DESCRIPTION: This area is situated squarely on the front of Yokohama harbor where the waterline forms a V-shape, marred by docks, piers, and breakwaters jutting out into it. Hills and low mountains surround the area which is built on virtually all the available flat land.

It is a mixed urban district in character, with industrial, commercial, and residential elements. Yokohama was almost completely destroyed in the earthquake and fire of 1923 and was subsequently rebuilt along more modern lines. However, Target 3608 does not encompass the most modern commercial and residential sections. It lies in Incendiary Zone II, and has an estimated density of 30,000 persons per square mile. Five large canals, one following the northwest direction of the coastline, the other four coming in at right angles to it, afford effective firebreaks, as do several wide roadways.

4. IMPORTANCE: As a transportation terminal, it equals TARGET 3607 just to the northeast. Many unidentified small industries and storage areas add to the total importance of the following numbered targets:

- 1 -

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- 69 - YOKOHAMA DOCKYARD OF MITSUBISHI HEAVY INDUSTRIES -  
In peacetime one of the largest commercial shipbuilding  
yards in Japan, and of equal wartime significance.  
Capable of putting out 75,000 to 100,000 tons per year.  
All types of facilities.
- 67 - YOKOHAMA STATION - Very important junction, with heavy  
passenger and freight concentration. Overpass, yards.
- 68 - HIGASHI YOKOHAMA YARD - Second to TARGET 68, good sized  
yards.
- 1432 - YOKOHAMA PASSENGER WHARVES - Can handle 50,000 ton  
ships. Very modern and well built; serviced with RR  
spurs, etc.
- 1438 - KYONTSU WAREHOUSE (Storage)  
1443 - NATIONAL SILK CONDITIONING HOUSE "  
1493 - TOSHIN AND SHINKO WAREHOUSES "
- 516 - POWDER MAGAZINE - Revetted stores at base of hills.
- 62 - HODOGAYA SUBSTATION - Power transforming station.
- 75 - FURUKAWA ELECTRIC CO., PLANT #1 - Important cable works.  
Paint and material shops particularly inflammable.
- 1399 - HODOGAYA SODA CO. - Large producer of caustic soda,  
benzoic acid, and bleaching powders. Estimated poison  
gas capacities: 2 tons phosgene, 10 tons mustard gas  
per day. Smaller quantities tear and chlorine gases.

25 May 1945

TARGET SECTION, A-2  
XXI Bomber Command



*file yokanama City*

Joint Damage Assessment of Yokanama, Kawasaki and  
Tokyo urban areas will be found in Tokyo City folder.  
Damage assessment no. 47.







JOINT TARGET GROUP, WASHINGTON, D. C.  
TARGET LOCATION SHEET

**YOKOHAMA URBAN INDUSTRIAL CONCENTRATION NO. 1**  
**YOKOHAMA**  
**JAPAN**

SHEET No. ....90.17-3607-TL  
DATE .....18 May 1945  
TARGET No. ....90.17-3607  
CATEGORY.....Mxt. Ind. Conc.-UIC  
COORDINATES ....35°28'N 139°39'E  
ALTITUDE .....10-25 feet

**SIGNIFICANCE:**  
Principally important for auto and truck assembly, oil refining and storage, alumina and basic chemicals, the area also contains shipyards, electrical equipment plants and military storage areas.

Holders of Joint Target Group Folders should insert this sheet in Air Target System Folder: Japanese Urban Areas.



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SCALE APPROX.: 1:29,700



JOINT TARGET GROUP, WASHINGTON, D. C.  
TARGET LOCATION SHEET

# YOKOHAMA URBAN INDUSTRIAL CONCENTRATION NO. 2

## YOKOHAMA JAPAN

SHEET No. .... 90.17-3608-TL  
DATE ..... 18 May 1945  
TARGET No. .... 90.17-3608  
CATEGORY  
Mixed Industrial Concentration  
COORDINATES .... 35°27'N 139°37'E  
ALTITUDE ..... 10-120 feet

**SIGNIFICANCE:**

The area contains an important shipyard, electrical and communications equipment plants, small chemical plants, and extensive freight yard and waterfront storage areas.

Holders of Joint Target Group Folders should insert this sheet in Air Target System Folder: Japanese Urban Areas.



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BRITISH SERVICES FOR THE USE OF ALLIED FORCES.

SCALE APPROX.: 1:30,600



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139° 35'

35° 30'

139° 04'

35° 30'

35° 25'

35° 25'

MAG. DEC.  
5°52'W  
ANNUAL CHANGE  
2' INC



**YOKOHAMA URBAN AREA**  
35°27'N-139°38'E  
MARCH 1945

A-2 SECTION

XXI BOMBER COMMAND  
3D PHOTO RCN SQ PHOTOS  
28 JANUARY 1945

PREPARED BY 949TH ENGR AVN TOPO CO

APPROX SCALE



140





MAG. DEC.  
5°52'W  
ANNUAL CHANGE  
2' INC

### YOKOHAMA URBAN AREA

35°27'N-139°38'E  
MARCH 1945

A-2 SECTION

XXI BOMBER COMMAND  
3D PHOTO RCN SQ PHOTOS  
28 JANUARY 1945

PREPARED BY 949TH ENGR AVN TOPO CO

APPROX SCALE

1000 2000 3000 4000 5000 6000 7000 8000 9000  
YARDS

35°  
30'

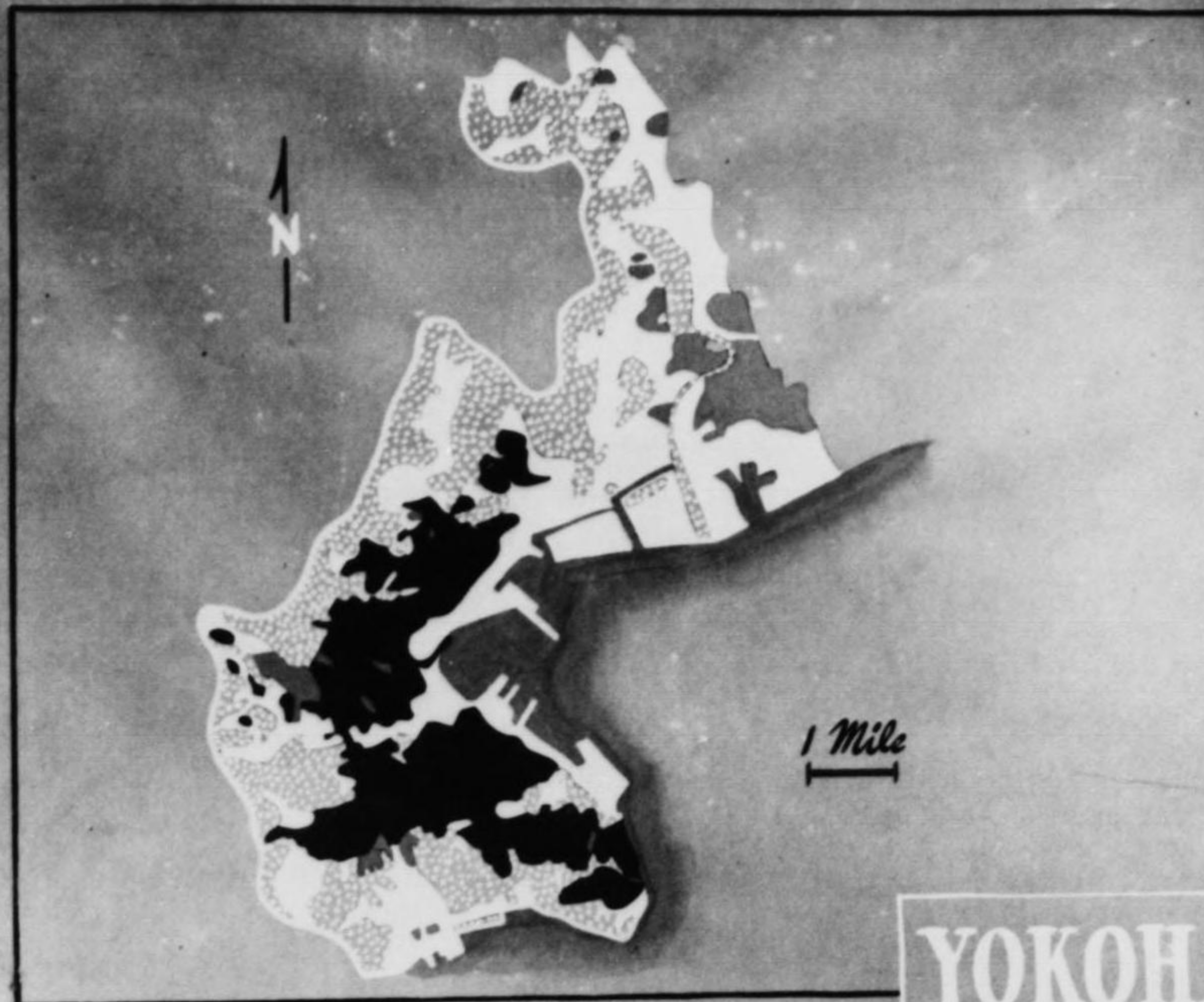
35°  
25'

35°  
25'

139°  
35'

139°40'





YOKOHAMA

MISSION N <sup>o</sup>	186	68 - 69		
DAMAGE	6.9 Sq MI	2.50 MI		
WINGS	58-73-313314	313-314-73		
DATE	29 May	15 APR. 45		
DAY/NIGHT	DAY			
BOMB TYPE	INCEND			
AV. LOAD	12,040 lbs			
A/C AIRBORNE	510			
A/C BOMB. P.T.	454			
TONS ON P.T.	2569.6			
ALTITUDE	17,500-21,000			
BOMB. METH.	305V 149R			
CLAIMS	6-5-10			
LOSSES	7			

M47-INST 1259T  
E 46-5000' ABOVE 1310T



S E C R E T

MISSION SUMMARY

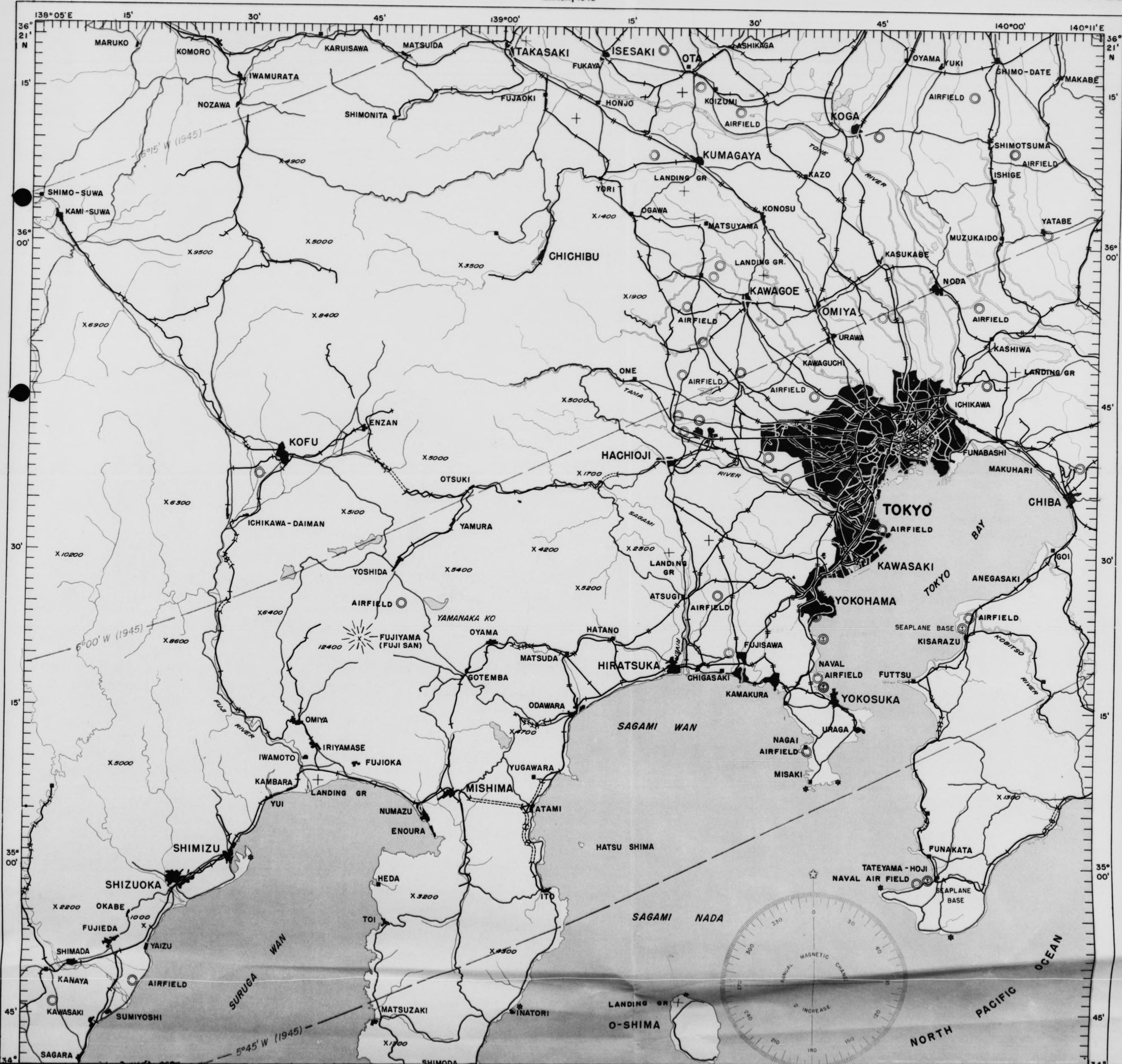
Mission Number 186

1. Date: 29 May 1945
2. Target: Yokohama Area
3. Participating Units: 58th, 73rd, 313th, and 314th Wings
4. Number A/C Airborne: 510
5. % A/C Bombing Primary: 90.8% (454 primary and 21 opportunity)
6. Time Over Primary: 291014K - 291129K
7. Altitude of Attack: 17,500 - 21,000
8. Weather Over Target: 9/10 high cloud
9. Total A/C Lost: 7
10. Resume of mission: Available photos indicated excellent bombing results. A total fo 6.9 square miles of the city were burned and destroyed. A total of 2569.6 tons of bombs were dropped on the primary target and 105.6 tons on targets of opportunity. Thirty-five A/C were non-effective. Fighter opposition consisted of 55 A/C sighted making 110 attacks. Claims were 6-5-10. Flak was heavy, meager to intense, accurate to inaccurate and shot down 3 B-29's. The B-29's were escorted by 101 P-51's. Two P-51's were lost over the target. One B-29 was intentionally rammed. Two A/C ditched. Thirty-nine A/C landed at Iwo Jima. Average Bomb Load: 12,040 lbs. Average fuel reserve: 811 gallons.

S E C R E T



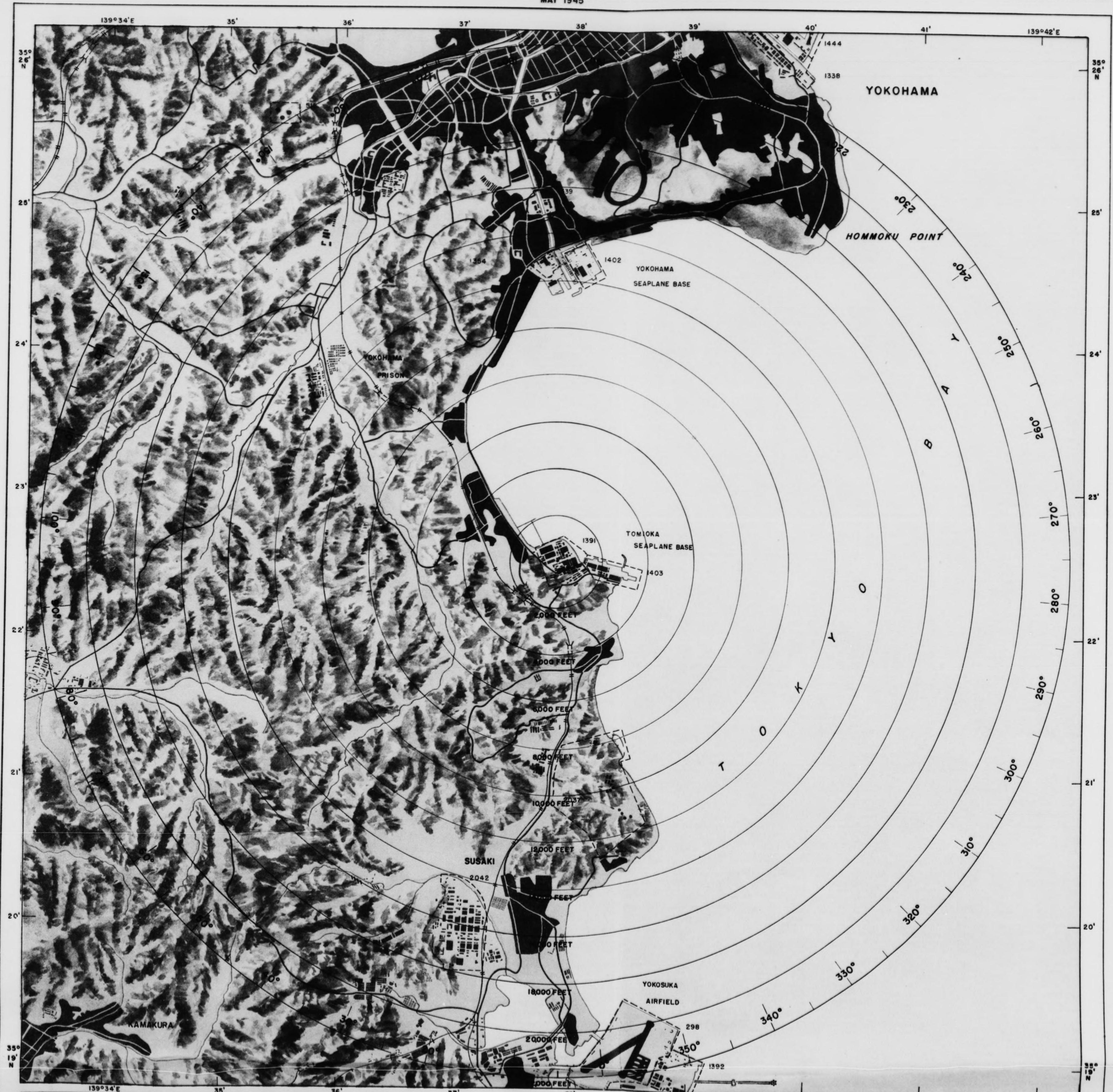
MARCH, 1945



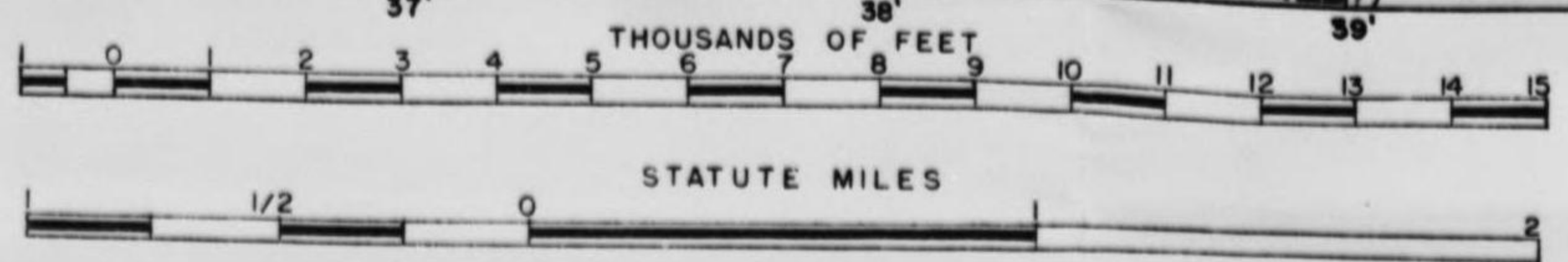








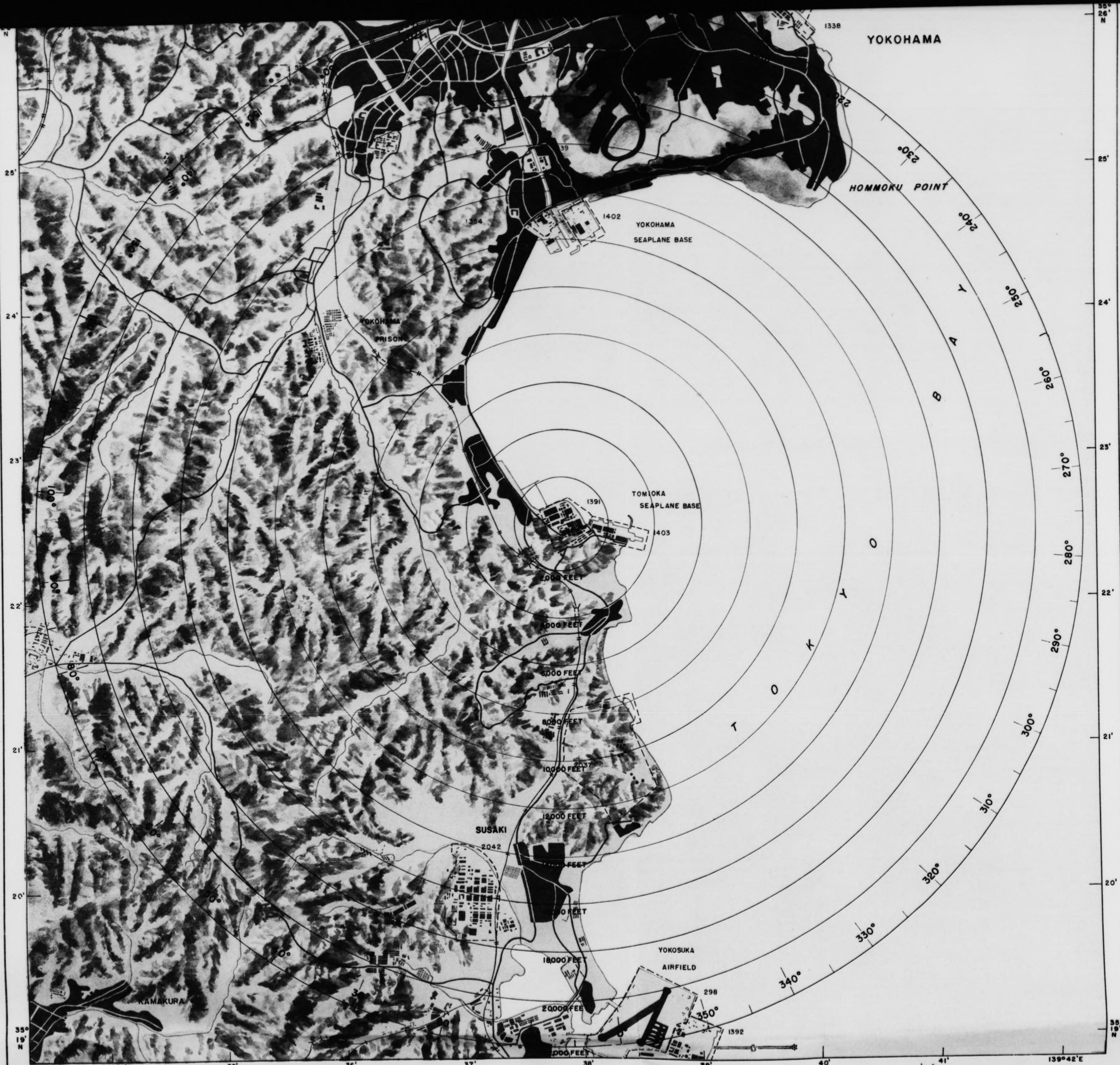
NO	DESIGNATION	ELEV
1391	JAPAN AIRCRAFT COMPANY (TOMIOKA PLANT)	10'
298	YOKOSUKA NAVAL AIR STATION	10'
515	THREE POWDER MAGAZINES	150'
1338	INFLAMMABLE STORAGE DOCKS	10'
1339	AMMUNITION STORAGE	10'
1354	ORIENTAL BABCOCK COMPANY	190'
1392	YOKOSUKA NAVAL AIRCRAFT & AERONAUTICAL RESEARCH CENTER	10'
1402	YOKOHAMA NAVAL AIR STATION	15'



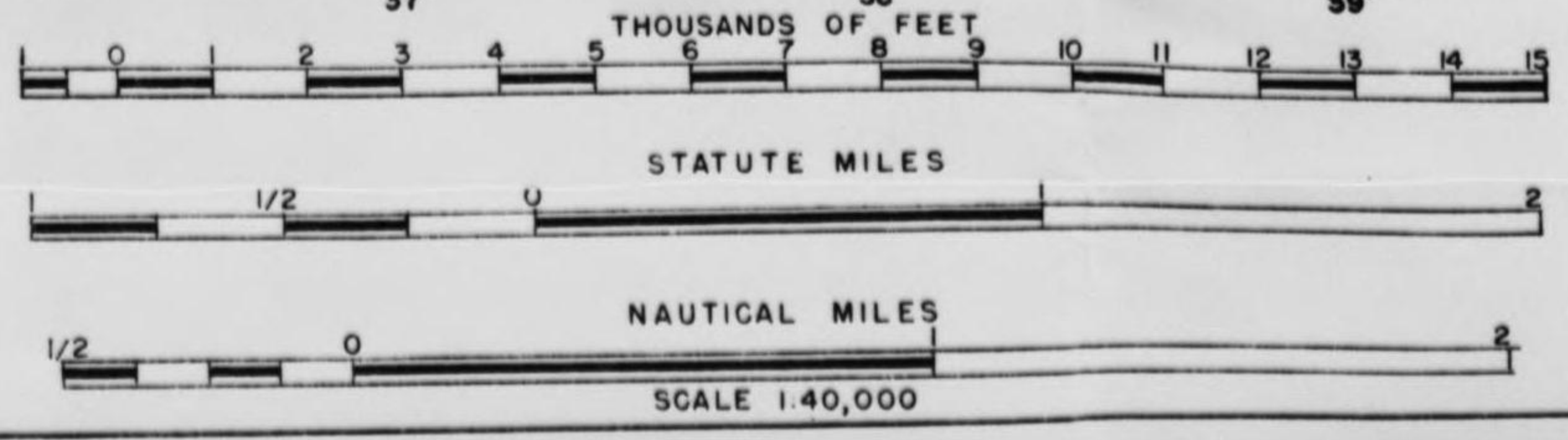
COMPASS ROSE INDICATES  
MAGNETIC BEARING TOWARD  
THE TARGET

ANNUAL MAGNETIC  
CHANGE = 2' INCREASE  
M V 8° 51' W (1945)





NO	DESIGNATION	ELEV
1391	JAPAN AIRCRAFT COMPANY (TOMIOKA PLANT)	10'
298	YOKOSUKA NAVAL AIR STATION	10'
515	THREE POWDER MAGAZINES	150'
1338	INFLAMMABLE STORAGE DOCKS	10'
1339	AMMUNITION STORAGE	180'
1354	ORIENTAL BABCOCK COMPANY	10'
1392	YOKOSUKA NAVAL AIRCRAFT & AERONAUTICAL RESEARCH CENTER	15'
1402	YOKOHAMA NAVAL AIR STATION	10'
1403	TOMIOKA SEAPLANE BASE	0'
1444	YOKOHAMA HARBOR TIMBER BASIN	0'
2037	KOSHIBA POINT OIL STORAGE	25'
2042	JAPAN STEEL COMPANY - YOKOHAMA PLANT	25'



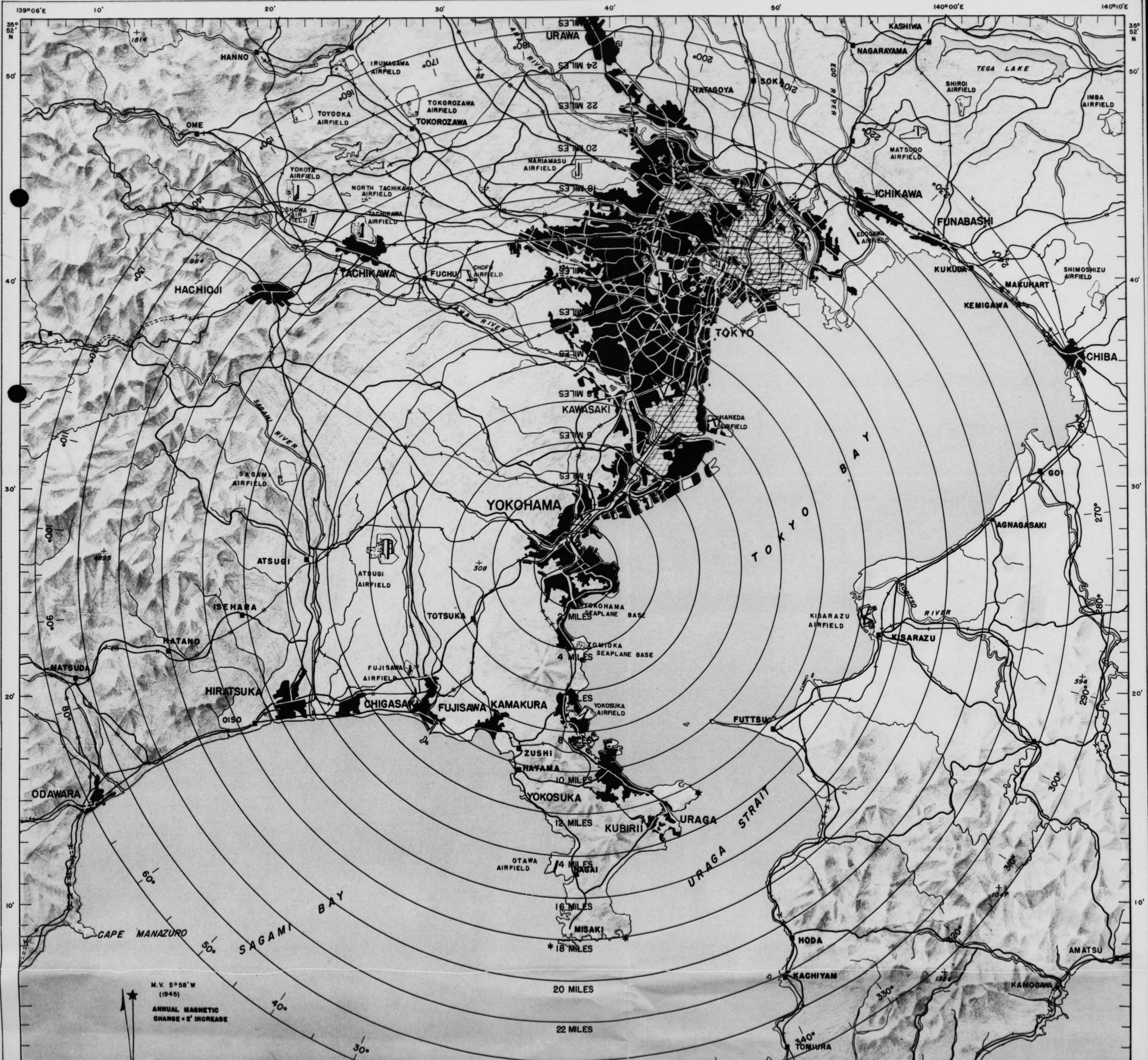
COMPASS ROSE INDICATES  
MAGNETIC BEARING TOWARD  
THE TARGET

ANNUAL MAGNETIC  
CHANGE = 2' INCREASE  
M V 8° 51' W (1948)

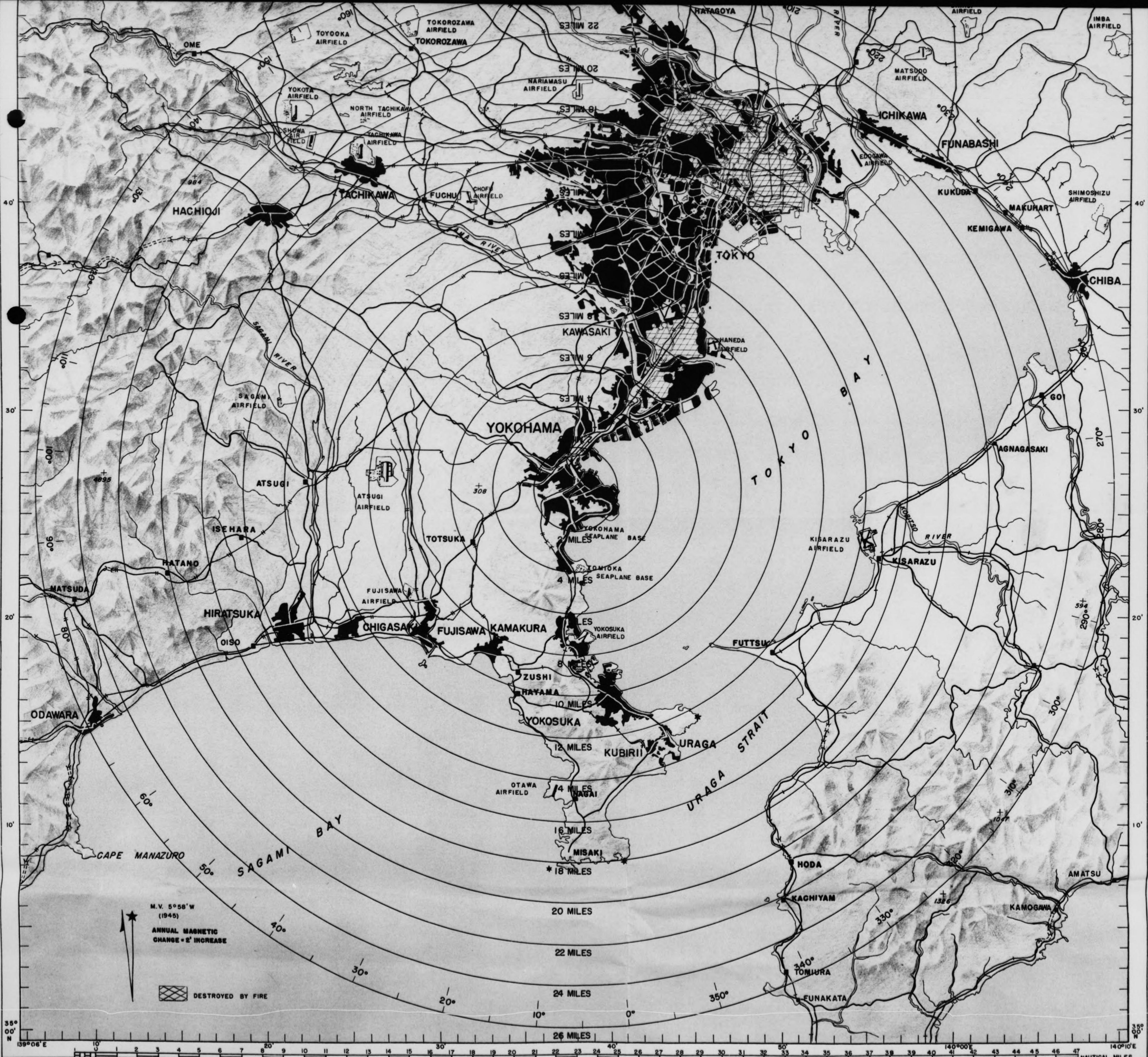


# YOKOHAMA AREA

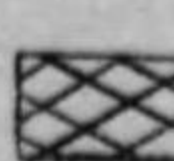
TARGET NO 90.17 URBAN (35° 26' N-139° 38' E) ELEV APPROX 10 FEET  
ALL DISTANCES IN NAUTICAL MILES







M.V. 5°58' W  
(1945)  
ANNUAL MAGNETIC  
CHANGE = 2' INCREASE

 DESTROYED BY FIRE











00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15



MAG. DEC.  
5°52'W  
ANNUAL CHANGE  
2' INC

**YOKOHAMA URBAN AREA**  
35°27'N-139°38'E  
MARCH 1945

A-2 SECTION  
XXI BOMBER COMMAND  
3D PHOTO RCN SQ PHOTOS  
28 JANUARY 1945

PREPARED BY 949TH ENGR AVN TOPO CO

APPROX SCALE  
0 1000 2000 3000 4000 5000 6000 7000 8000 9000  
YARDS

40





35°  
30'

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25'

35°  
25'

139°  
35'

139°40'

MAG. DEC.  
5°52' W  
ANNUAL CHANGE  
2' INC



**YOKOHAMA URBAN AREA**  
35°27' N'-139°38' E  
MARCH 1945

A-2 SECTION  
XXI BOMBER COMMAND  
3D PHOTO RCN SQ PHOTOS  
28 JANUARY 1945

PREPARED BY 949TH ENGR AVN TOPO CO

APPROX SCALE

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

(Combined PI Sections: 3rd Photo Recon Squadron and 35th Photo Tech Unit)

4 June 1945

DAMAGE ASSESSMENT REPORT 80

YOKOHAMA CITY

Mission No.: 3PR5M 254

Target Area: Tokyo (90.17)

Date Flown: 31 May 1945

SUMMARY

Damage to Yokohama city resulting from XXI Bomber Command Mission 186, 29 May 1945, totals 6.9 square miles, which represents about 34% of the entire city.

Industrial damage includes 20 numbered targets damaged or destroyed.

The area destroyed by this raid is primarily in the zone classified as "commercial" (Ref. A).

Total damage to Yokohama is now 8.9 square miles, which represents 44% of the entire city.

SUMMARY OF STATISTICS OF DAMAGE

1. Summary of damage from current strike:

	<u>Sq. miles</u>	<u>Percent</u>
Area of City	20.2	
Area of City destroyed	6.9	34.0
Area of Incendiary Zone I	.72	
Area of Incendiary Zone I destroyed	.70	97.0
Area of Incendiary Zone II	7.32	
Area of Incendiary Zone II destroyed	4.54	62.0
Target Area 90.17-3607	3.8	
Target Area destroyed	.12	3.2
Target Area 90.17-3608	3.0	
Target Area destroyed	1.4	46.0

2. Summary of Total Damage:

	<u>Sq. Miles</u>	<u>Percent</u>
Area of City	20.2	
Area of City destroyed	8.94	44.0
Area of Incendiary Zone I	.72	
Area of Incendiary Zone I destroyed	.719	99.4
Area of Incendiary Zone II	7.32	
Area of Incendiary Zone II destroyed	4.8	65.2
Target Area 90.17-3607	3.8	
Target Area destroyed	.15	3.3
Target Area 90.17-3608	3.0	
Target Area Destroyed	1.68	56.0



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Damage Assessment Report No. 80, cont'd.

ITEMIZATION OF INDUSTRIAL DAMAGE

TARGET NO.	DAMAGE	TARGET NAME
1 62	95% destroyed	Hodogaya Sub Station
2 63	98% "	Kanagawa Steam Power Plant
3 66	80% gutted	Fukushima Freight Yards
4 67	25% "	Station, Junction, Overpass
5 71	90% destroyed	Uraga Dockyard
6 499	90% "	Nippon Carbon Co., Plant #1
7 522	20% gutted	Nissan Auto Co.
8 1338	5% destroyed	Inflammable Storage Docks
9 1346	80% "	Yokohama Electric Co. Power Plant
10 1399	20% "	Hodogaya Soda (Chemicals)
11 1430	5% "	Nippon Electric Wire & Cable
12 1432	15% minor damage	Yokohama Harbor Passenger Wharves
13 1438	90% destroyed	Kyoitsu Warehouse
14 1440	10% "	Mitsubishi Warehouse
15 1442	100% "	Yokama Warehouse
16 1443	10% "	National Silk Conditioning House
17 1446	85% "	East Asia Development Co. Warehouse
18 1451	4% "	Naniwa Warehouse
19 1493	80% "	Toshin & Shinko Warehouse
20 XXI 3054	4% "	Unidentified industry

References: A. AOF 90.17 15 September 1948  
 B. CIU Damage Assessment Report 47

Photography: Pre-strike: 3PR5M157  
 Strike: 21 BC M186  
 Post-strike: 3PR5M254

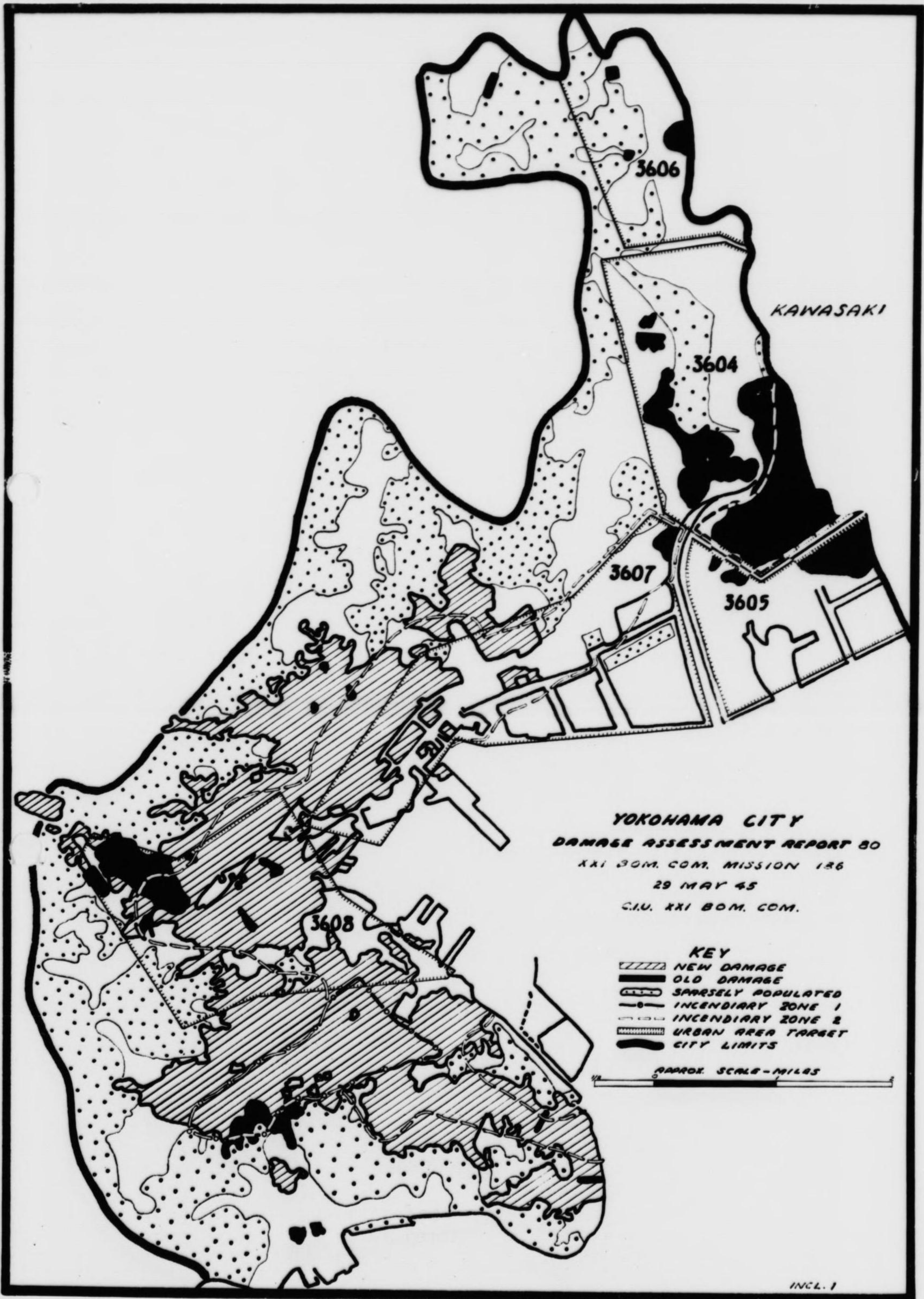
Inclosures: 1. City Diagram (arbitrary city limits, incendiary zones and target areas)  
 2. Mosaic showing damage  
 3. Post-strike print 3PR5M254-IV: 9

Approved: *[Signature]*  
 HAMILTON D. DARBY  
 MAJOR, AC

DISTRIBUTION: "B"

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YOKOHAMA CITY  
DAMAGE ASSESSMENT REPORT 80  
XXI BOM. COM. MISSION 166  
29 MAY 45  
C.I.U. XXI BOM. COM.

KEY  
[Solid line] OLD DAMAGE  
[Dashed line] NEW DAMAGE  
SCALE - MILES (1:100,000)

SEMI-CONTROLLED MOSAIC  
MAY BE ENL. FROM 3000 FT. LENS

15 FT. 6 JUN 45 C 1730

INCH. 2



3 PR 5 M 254 - IV 9

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YOKOHAMA CITY  
DAMAGE ASSESSMENT REPORT 80  
XXI BOM. COM. MISSION 2  
29 MAY 1945/  
CIU - XXI BOM. COM.  
(67,000')

9

INCL 3



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

Combined PI Sections: 3rd Photo Recon Sqdn and 35th Photo Tech Unit,

29 April 1945

DAMAGE ASSESSMENT REPORT NO. 47

Mission No.: 3PR5M 150                      A/C Commander: D.U. Woodfield  
Date Flown: 16 April 1945                      1st Lt., AC

Mission No.: 3PR5M 157                      A/C Commander: Ian L. Boggs  
Date Flown: 22 April 1945                      1st Lt., AC

SUMMARY

This report assesses area damage in Yokohama, Kawasaki and S. Tokyo resulting from XXI Bomber Command Missions 68 and 69, 15 April 1945.

Area damage totals approximately 268,000,000 sq. ft. (9.6 sq. mi. or 6100 acres) of destruction within these cities.

Twenty-five numbered industrial targets show varying degrees of damage.

STATISTICAL SUMMARY

<u>TARGET</u>	<u>SQ.FT.</u>	<u>ACRES</u>	<u>SQ.MI.</u>	<u>PERCENT</u>
Area of Kawasaki Incendiary Zone No. 1	40,995,000	940	1.47	
Area destroyed	26,775,000	615	.96	65
Area of Yokohama Incendiary Zone No. 1	20,025,000	460	.72	
Area destroyed	585,000	13	.02	3
Area Target 90.17-3601	402,570,000	9,000	14.4	
Area destroyed	131,500,000	3,000	4.7	33
Area Target 90.17-3604	229,950,000	5,250	8.2	
Area destroyed	127,000,000	2,880	4.5	55
Area Target 90.17-3605	111,690,000	2,560	4.0	
Area destroyed	5,400	.13	.02	.05
Area Target 90.17-3606	117,610,000	2,750	4.3	
Area destroyed	36,000,000	830	1.3	30
Area Target 90.17-3607	107,640,000	2,420	3.8	
Area destroyed	89,000	1.9	.03	.08
Area Target 90.17-3608	84,330,000	1,900	3.0	
Area destroyed	7,962,000	180	.28	9.5

ITEMIZATION OF AREA DAMAGE

<u>Annot. No.</u>	<u>Description of Area</u>	<u>Sq.Ft. destroyed</u>
1.	Residential - destroyed (2 areas)	562,000
2.	Residential - destroyed	562,000

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O/A Report No. 47, Cont'd.

<u>Annot. No.</u>	<u>Description of Area</u>	<u>Sq.Ft. destroyed</u>
3.	Residential - destroyed (2 areas)	438,000
4.	Residential - destroyed	250,000
5.	Includes residential, commercial and industrial sections (Targets 331, 541, 573, 918, 919, 1332, 1357, 1362). Industrial section severely damaged; residential and commercial sections destroyed.	130,000,000
6.	Light industrial area - destroyed	1,500,000
7.	Light industrial area - destroyed	1,875,000
8.	Residential - destroyed	375,000
9.	Residential - destroyed	187,000
10.	Light industrial area - destroyed	593,000
11.	Light industrial area destroyed	250,000
12.	Industrial area - destroyed	438,000
13.	Residential - destroyed	720,000
14.	Light industrial area - destroyed	218,000
15.	Residential - destroyed	94,000
16.	Residential - destroyed (3 areas)	3,160,000
17.	Residential and light industrial (2 areas destroyed)	4,680,000
18.	Includes residential, commercial and industrial sections (Targets 58, 105, 106, 141, 484, 485, 487, 488, 489, 494, 496, 4011, XXI 3058, XXI 3069, XXI 3070, XXI 3075). Industrial section severely damaged, residential and commercial areas destroyed.	108,000,000
19.	Industrial area - destroyed	812,000
20.	Residential - destroyed	812,000
21.	Residential (3 areas) - destroyed	812,000
22.	Residential (3 areas) - destroyed	1,500,000
23.	Residential - destroyed	562,000
24.	Residential and industrial area (Target 1399 - 80% destroyed). Residential area - destroyed.	5,900,000
25.	Residential - destroyed	3,125,000
26.	Residential - destroyed	1,000,000

ITEMIZATION OF DAMAGE TO INDUSTRIES

YOKOHAMA

1399 - Hodogaya Soda - 80% destroyed, Two large buildings destroyed. 2 large buildings gutted.

XXI 3058 - Unidentified Industry - 70% destroyed. Main and secondary buildings severely damaged.

XXI 3069 - Unidentified Industry - Main building has minor damage - shops and warehouses are gutted or destroyed - 60% of plant affected.

XXI 3075 - Unidentified Industry - 30% destroyed; One sawtooth-roofed building destroyed, 3 warehouse type buildings destroyed, one sawtooth-roofed building severely damaged.

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D/A Report No. 47, Cont'd.

KAWASAKI

- XXI 3070 - Unidentified Industry - 80% of plant destroyed or gutted.
- 58 - Tokyo Special Steel & Chrome Works - 50% destroyed. Five sawtooth-roofed and numerous smaller buildings destroyed, one sawtooth-roofed building gutted.
- 105 - Kawasaki Substation No. 1 - Probably 30% of plant destroyed. Several small buildings - other damage is not readily assessable.
- 106 - Railroad Transformer Station - 80% destroyed, the remaining buildings are probably severely damaged.
- 141 - Yokohama Rubber Co. - at least 40% of plant destroyed. Smoke still obscures center of plant area, fires visible. Numerous small shops at one end of plant area are burned out. Four major buildings at opposite end of plant are destroyed.
- 484 - Showa Wire Cable Co. - 40% destroyed. Several warehouse type buildings destroyed - 2 main buildings show minor damage.
- 485 - Fuji Spinning Mills - 80% gutted or destroyed. Part of plant obscured by smoke.
- 487 - Meiji Sugar Factory - 30% destroyed. Five small buildings destroyed, possible damage to remaining buildings.
- 488 - Factory No. 2 of Tokyo-Shibaura Electric Co. - 10% damaged. Three small buildings destroyed, 4 gutted.
- 489 - Nippon Electric Wire and Cable Co. - 30% of plant gutted.
- 494 - Tokyo Electric Wire and Mfg. Co. - 100% destroyed.
- 496 - Factory No. 1 of Tokyo-Shibaura Electric Co. - 25% of plant destroyed. Seven sawtooth-roofed and 3 warehouse type buildings destroyed.
- 4011 - Electrical Instrument Plant - 70% destroyed or gutted.

SOUTH TOKYO

- 331 - Tokyo Gas & Electric Engineering - One large and two small buildings, amounting to about 5% of plant, destroyed. Plant is well protected by fire breaks.
- 541 - Oriental Otis Elevator - 60% destroyed. Three large buildings slightly damaged, one building gutted, 15 small buildings destroyed.
- 573 - Migata Engineering Works - 10% destroyed. One building severely damaged.
- 918 - Niigata Iron Works - 90% destroyed. Of 210,000 sq. ft. occupied by main buildings, 183,000 sq. ft. are gutted or destroyed - all minor buildings are destroyed.
- 919 - Tokyo Measuring Instrument Works - 80% destroyed. Fourteen warehouse type buildings destroyed.

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D/A Report No. 47, Cont'd.

1332 - Rolling Stock Co. - 30% destroyed. Shop building severely damaged, several smaller buildings destroyed.

357 - Tokyo Special Machine Mfg. Co. - Thirteen warehouse type buildings, a total of 15% of plant area, destroyed.

362 - Kitashin Electric Engineering Co. - 20% destroyed. Two of the larger buildings are gutted.

Bridge - under construction, over Tama River, NE of Target 4011 - destroyed.

Annotated and attached: Area Map of S. Tokyo, Kawasaki,  
Yokohama

Attached: 3PR5M 157 - 1V; 109

Approved. *H. D. Webster* 1st Lt. AC  
HAMILTON D. DARBY,  
MAJOR, AC

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

(Combined PI Sections: 3rd Photo Recon Squadron and 35th Photo Tech Unit)

11 May 1945

CORRECTION

DAMAGE ASSESSMENT REPORT NO. 47

Under "Area Target 90.17-3604:

"127,000,000 sq. ft., 2800 acres, 4.5 sq. mi., 55%" should  
be changed to read - 92,443,600 sq. ft., 2100 acres, 3.3 sq. mi.,  
40%.

Approved.....

*Richard C. Bass*  
For HAMILTON D. DREY, Cent AC-  
MAJOR, AC.

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109

DAMAGE ASSESSMENT REPORT Nº 47  
C.I.U. XXI Bom Com.

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MAG. DEC.  
5°52'W  
ANNUAL CHANGE  
2' INC

**YOKOHAMA URBAN AREA**  
35°27'N-139°38'E  
MARCH 1945

A-2 SECTION  
XXI BOMBER COMMAND  
3D PHOTO RCN SQ PHOTOS  
28 JANUARY 1945

PREPARED BY 949TH ENGR AVN TOPO CO

APPROX SCALE



35° 35' 139° 35' E

35° 40' 139° 40' E

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MAG. DEC.  
5°52'W  
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APPROX SCALE



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