KUMANO No. 90.24

ISSUED JANUARY 15, 1943

AIR OBJECTIVE FOLDER

No. 90.24 Kumano Area JAPAN

U. S. ARMY AIR FORCES
WASHINGTON, D. C.

This reprint contains no general revision although some minor corrections and additions have been made.

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AIR OBJECTIVE FOLDER JAPAN

No. 90.24 KUMANO AREA

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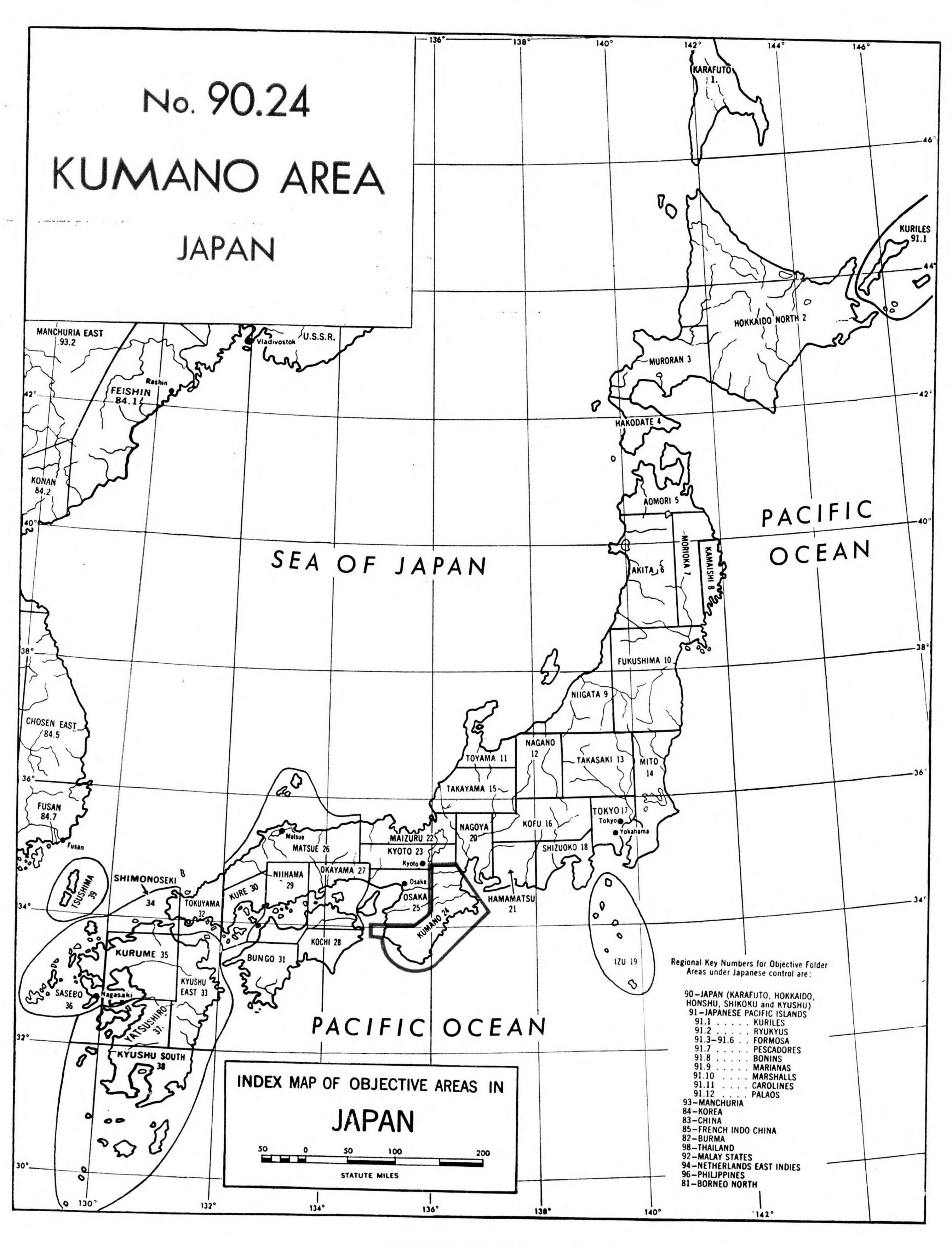
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INTELLIGENCE SERVICE, U. S. ARMY AIR FORCES
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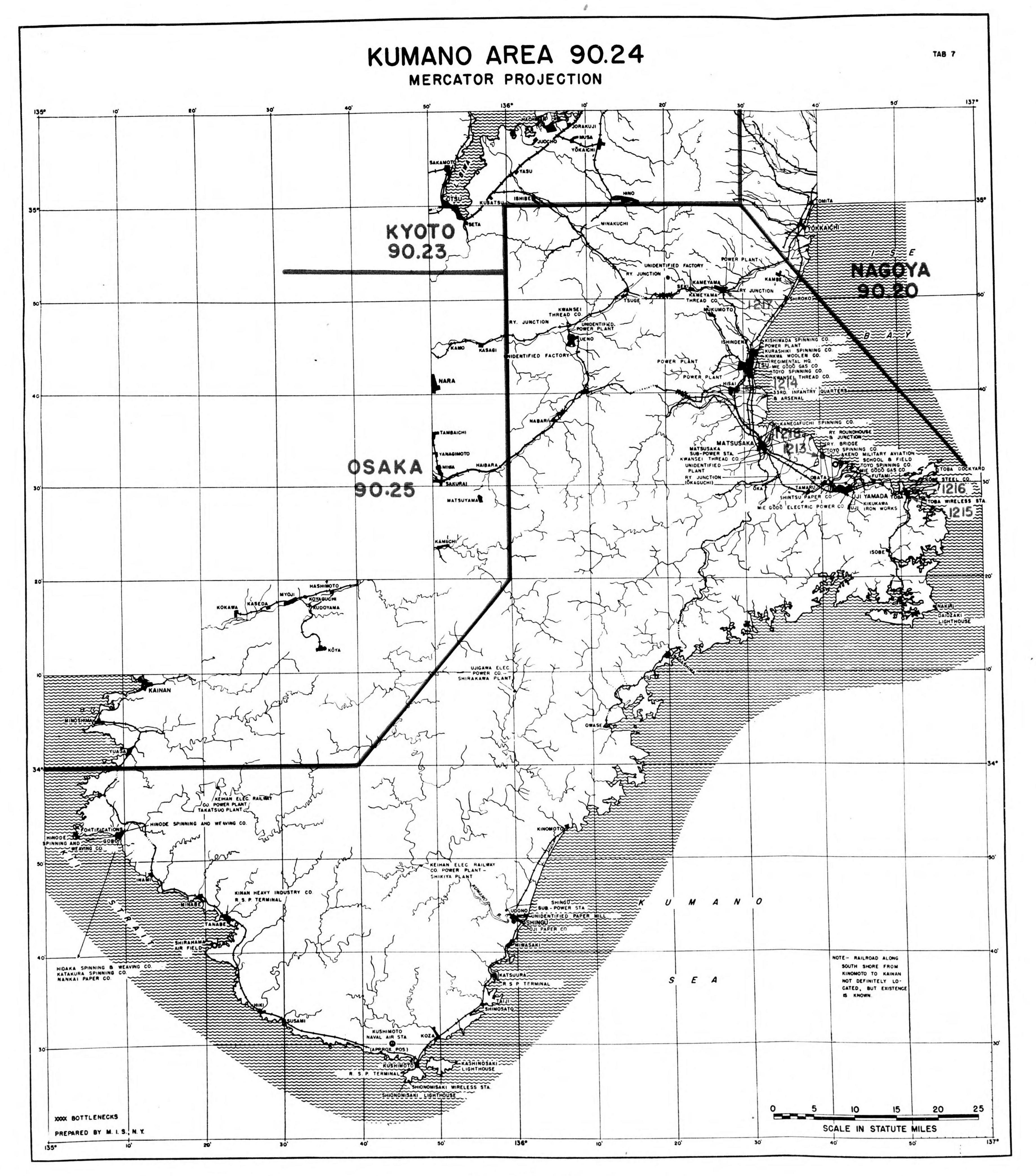
EXPLANATION OF FOLDER

This folder is primarily for the use of group and squadron commanders and intelligence officers in the planning of operations and the briefing of crews. Neither the folder nor any part of it may be taken into the air on offensive missions.

Targets and objective areas are numbered from one to infinity within each country. These numbers are combined into code showing the country, objective area, and target.

For example, 90.24-1215 indicates Japan (90), Kumano Area (24), and TARGET 1215 Japan series.

Supplementing the objective folder, target charts are provided separately for the use of air crews. Each chart is centered on a target; it spots other targets lying within a four-mile radius; and it identifies landmarks within a twenty-mile radius. Each chart is numbered according to the target on which it is centered.



658-T-5-Hamamatsu-Kumano-1-11-43-1-1

SUMMARY AND EVALUATION OF KUMANO AREA 90.24

The Kumano Area includes the southern and eastern sections of the Kii Peninsula, which extends southward into the Pacific between Osaka and Nagoya. This area is of slight industrial or military importance and aside from the coastal plain bordering Ise Bay, is mountainous and sparsely populated. The principal towns are Kameyama, the textile center of Tsu, Matsuzaka, Ujiyamada and Toba, which is the location of the area's two significant installations TARGETS 1215 and 1216. The area map on page 3 indicates numerous textile and pulp mills, small power plants and other minor installations.

There is no evidence that the southward industrial dispersion from Nagoya City has extended into the

Kumano Area. There are unconfirmed reports of aircraft or components production in or near Tsu, but the only known installation in this category is a small repair and salvage depot for propellors and other aircraft parts.

Significant developments in the Toba locality are wooden ship construction in addition to the repair facilities for large vessels at TARGET 1216. Recent expansion of the Kobe Steel Co. TARGET 1215 includes the production of aircraft components as well as light electrical equipment. Also reported here are a naval oil storage installation and a small marine engine works.

TABULATION OF TARGETS IN KUMANO AREA

ARGET NO.	TARGET NAME	APPROXIMATE COORDINATES	DESCRIPTION & SIGNIFICANCE	TARGET CHART NO
			AIRPORTS	
1213	Akeno Military Aviation School and Field	34° 32′ N	One of principal airfields on southern approach to Nagoya, 3 mi NW of Uji Yamada. Aerial gunnery school and pilot training. Hangars, workshops and administration bldgs.	1213
		ARSENALS	S AND MILITARY STORES	
1214	33rd Infantry Regi- ment and Arsenal	34° 40′ N 136° 29′ E	E of Hisai and $3\frac{1}{2}$ miles SW of Tsu. Before war consisted of 3 battalions of 600 men each. Military depot just N of regimental grounds.	1214
		MACHINE	S AND MACHINE TOOLS	
1215	Kobe Steel Co. (Toba)	34° 28′ N	Reported production of light electrical equipment (motors and generators), and aircraft components. In 1932, plant employed 600 workers and has since been considerably expanded. New shop-type buildings occupy much of the plant area.	1215
		NAVAL	BASES AND SHIPYARDS	
1216	Toba Dockyard	34° 28′ N	On waterfront just N of Kobe Steel Plant. Builds small fishing boats and coastwise craft; repair facilities include 1 drydock.	1215
		RAILRO	DAD TRANSPORTATION	
1217	Kameyama RR Jc	34° 51′ N	Junction of Kwansai (Nagoya-Yokkaichi- Osaka) and Sangu (Kameyama-Toba) lines. Roundhouse lies NE of Kameyama Sta.	1217
1218	Matsuzaka Jc and Roundhouse	34° 34′ N	19 miles SSE of Kameyama and 9½ miles S of Tsu. Jc of Sangu and Sangu Kyuko lines. Roundhouse in yards near Matsuzaka Sta.	1218

Charts are numbered according to the targets on which they are centered. First edition Jan. 1943.							
Target chart number	Targets appearing on chart	Target chart number	Targets appearing on chart	Target chart number	Targets appearing on chart	Target chart number	Targets appearing on chart
	1213.	1215	1215, 1216.	1217	1217.	1218	1218.

PHOTOGRAPHS OF KUMANO AREA 90.24

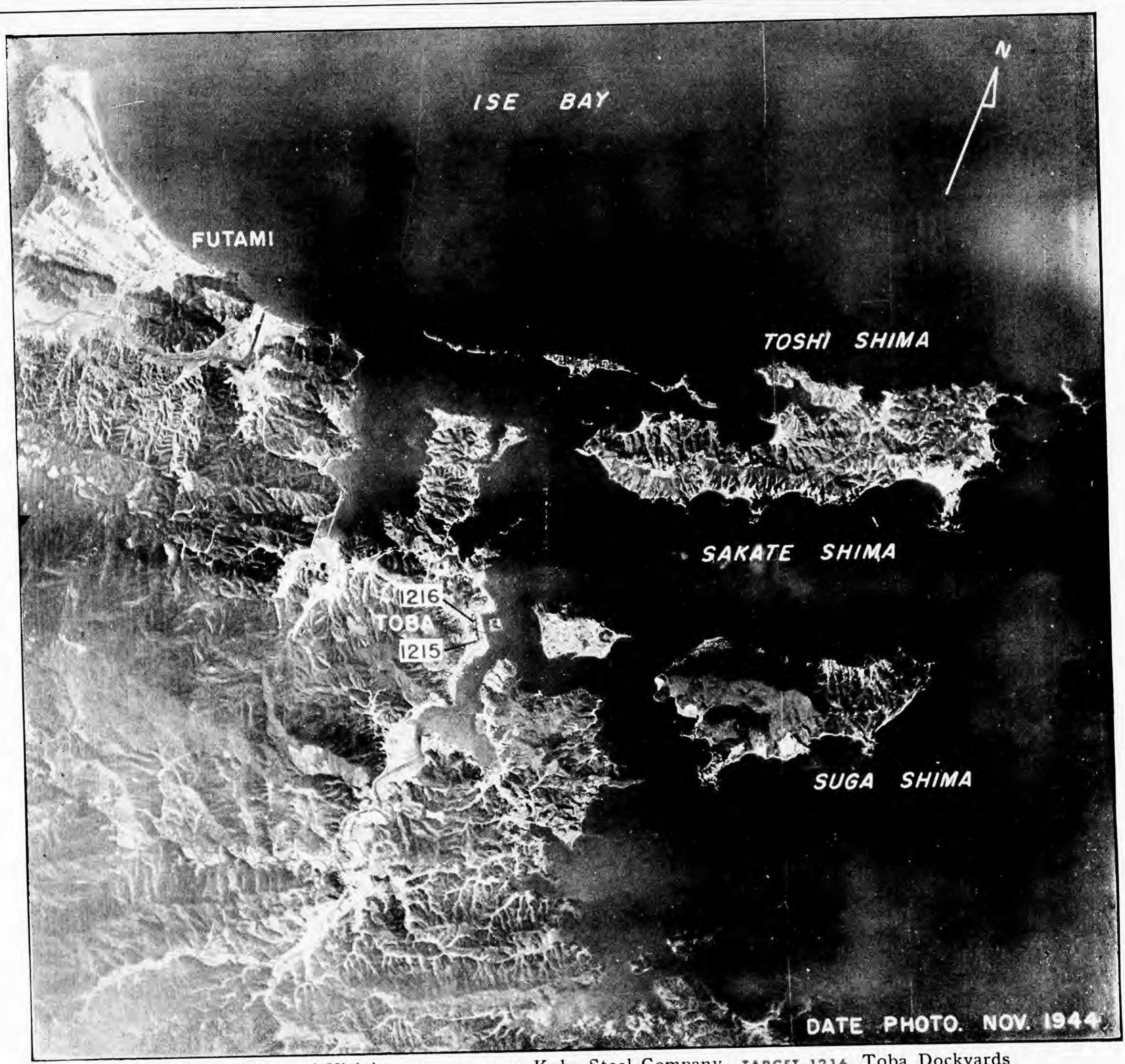
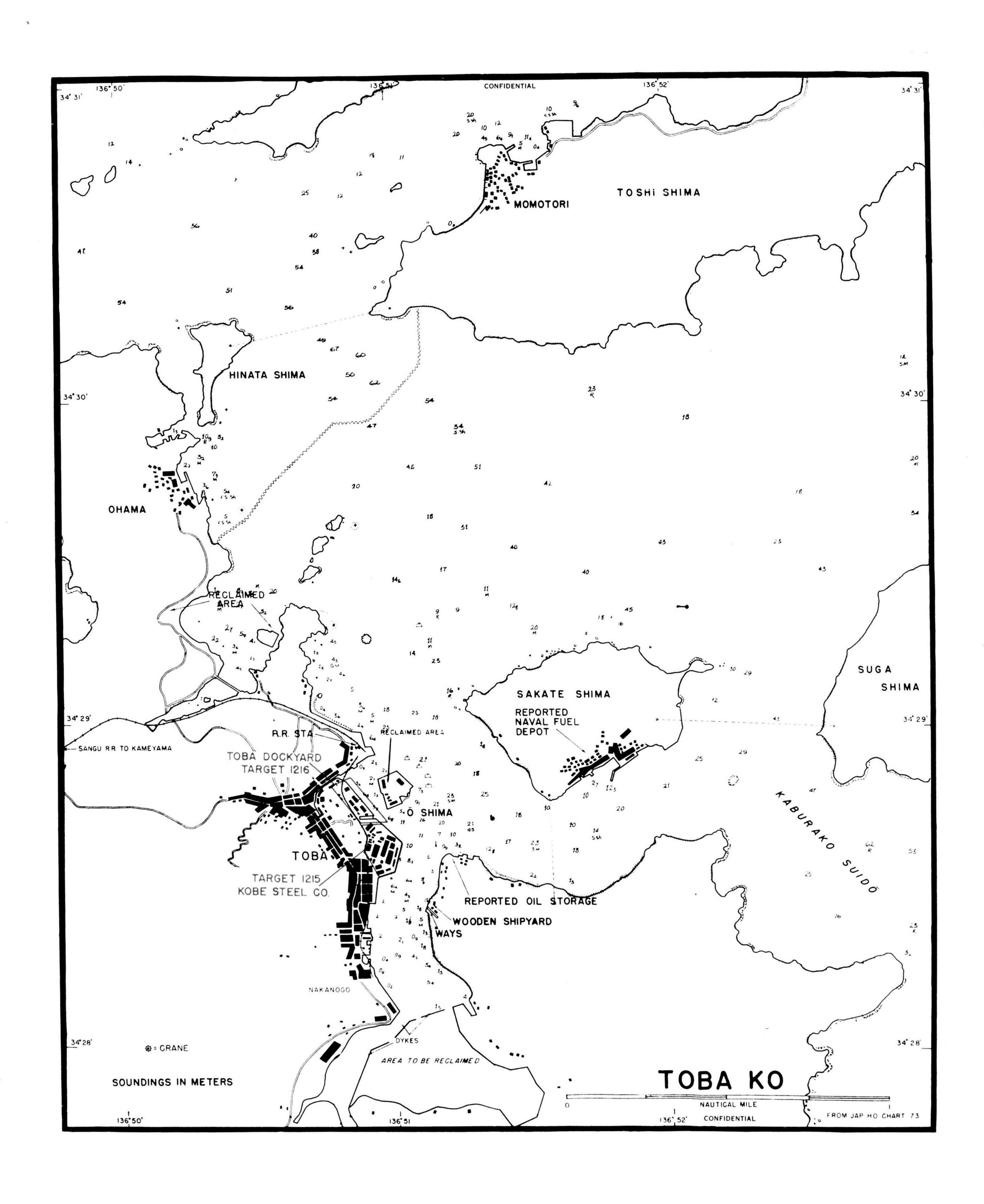


PHOTO A... Toba and Vicinity-TARGET 1215 Kobe Steel Company. TARGET 1216 Toba Dockyards



PHOTO B . . . Toba Harbor-TARGET 1215 Kobe Steel Company. TARGET 1216 Toba Dockyards



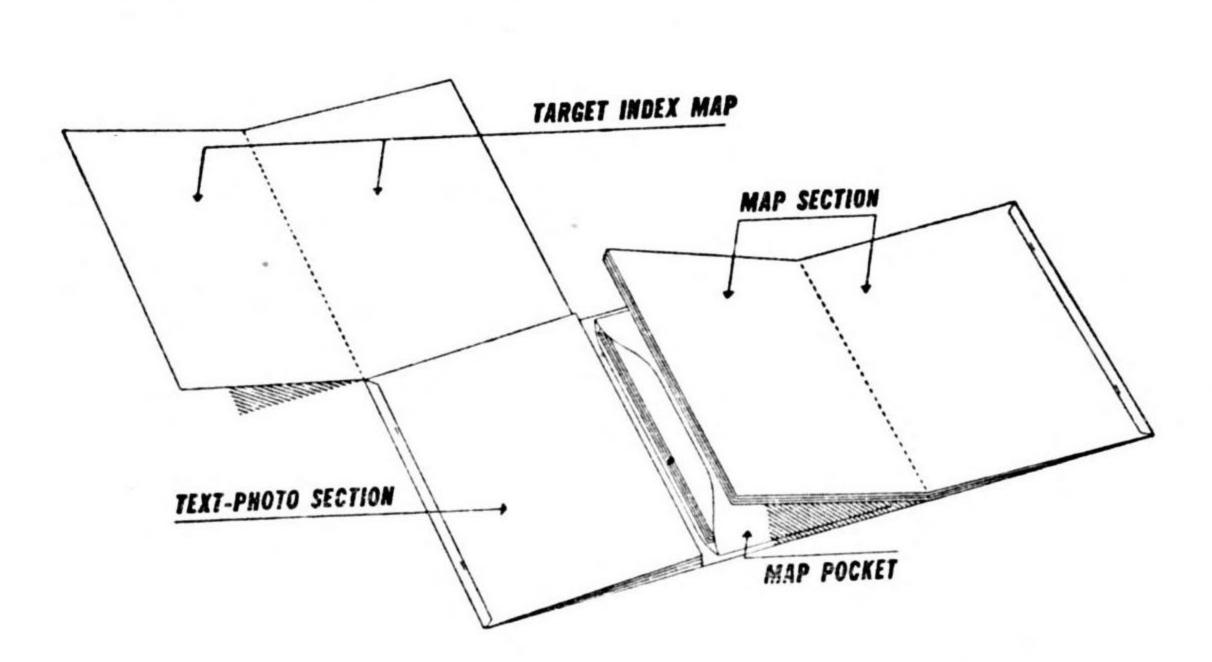
AIR OBJECTIVE FOLDERS

Air Objective Folders are primarily for the use of group and squadron commanders, operations officers, and intelligence officers in the planning of operations and the briefing of crews.

As an aid to staff planning, a summary and evaluation of main divisions within the area is included. Target and objective areas are numbered in a separate series for each country. For example, in this folder: 90.25

—686 indicates Japan (90), Osaka Area (25), and TARGET 686, the Osaka Metal Industry Company.

Supplementing the Air Objective Folder are Target Area Base Maps, distributed in lieu of AAF Target Charts formerly provided for the use of air crews. These maps are being distributed in limited quantities to Theatre Air Force Headquarters and are described on the Target Chart Information page in this folder.



The Air Objective Folder is divided into a Text-Photo Section, a Map Section, and a Map Pocket.

In the Text-Photo Section a Target-Index Map opens upward to form a handy reference in locating ALL TARGETS.

The Map Section unfolds to permit cross-checking with material in the Text-Photo Section.

The Map Pocket contains oversize maps.

There are three quick-reference Index Pages at the beginning of the Text-Photo Section which list targets by classification, by name, or by number. An additional Index of Targets and Target Charts appears at

the beginning of each regional division. Thus in locating a target in the Air Objective Folder you need to know only the classification, name or number of the target.

Target description pages in this folder have been perforated, so that they may be extracted and adapted to any filing system. All text and photo pages are indexed for filing. Individual target descriptions and illustrations are grouped together so that photographs, city plans and orientation maps may be used in a baloptican while briefing the crews.

It will be noted that one photograph may include several targets for orientation purposes. However, in every instance, the best available photograph of a target will accompany the description of that target.