By EHS-mf NARA, Date 4-4-74

I 94.3

COPY FOR
VLR OPERATIONS ROOM

DO NOT REMOVE

NETHERLANDS EAST INDIES

JAVA No. 94.3

ISSUED NOVEMBER 20, 1942

AIR OBJECTIVE FOLDER

NO. 94.3

Java Area

NETHERLANDS EAST INDIES

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

CONFIDENTIAL

**NOT TO BE TAKEN INTO THE AIR
ON OFFENSIVE MISSIONS**

943
94.3 SRA 8/43

Issued November 20, 1942

AIR OBJECTIVE FOLDER NETHERLANDS EAST INDIES

No. 94.3 JAVA AREA

TABLE OF CONTENTS

T— refers to pages in text section
P— refers to pages in photographic section
M— refers to pages in map section

TEXT: PAGE

Explanation of Folder....T-2
Summary and Evaluation of Area....T-5
Tabulation of Target Information....T-6
Review of Targets....T-10
List of Target Charts Available for Area....T-10

PHOTOGRAPHS:

Batavia Airdrome....P-1
Batavia Railroad Station and Yards....P-1
Tandjong Priok Harbor....P-2
Tandjong Priok Harbor....P-2
Tandjong Priok Railroad Station....P-3
Buitenzorg Goodyear Tire Factory....P-3
Oebroeg Power Station....P-4
Kalidjati Airfield....P-4
Bandung Airdrome....P-5
Bandung Quinine Factory....P-5
Bandung Railroad Station and Repair Shops....P-6
Lamadjan Power Station....P-6
Tjibodas Sulphur Factory....P-7
Malabar Radio Station....P-7
Cheribon Harbor....P-8
Tjilatjap Harbor....P-8
Semarang Harbor....P-9
Mandalan Power Station....P-9
Surabaya Harbor....P-10
Semampir Power Station....P-11
Surabaya Railroad Station....P-11
State Railroad Workshops (Goebeng)....P-12
Braat Machine Shops....P-12
Wonokromo Railroad Station and Bridge....P-13
Surabaya Airdrome....P-13

MAPS:

Map of Java Area—locating ALL targets....FRONT
Index map of Philippines, East Indies and Southeastern Asia....M-1
Topographic map of Java and Vicinity....M-1
Batavia District....M-2
Batavia City Plan....M-2
Port Tandjong Priok....M-3
Kalidjati District....M-3
Bandung District....M-4
Bandung City Plan....M-4
Cheribon....M-5
Tegal Harbor....M-5
Tjilatjap....M-6
Semarang....M-6
Surabaya District....M-7
City Plan of Surabaya....M-7
Pasuruan Harbor....M-8
Probolingo Harbor....M-8
Kalianget Harbor....M-9
Panarukan Harbor....M-9
Banyuwangi....M-10
Merak Harbor....M-10

3531—T-1—Java—11-17-42-

INTELLIGENCE SERVICE, U. S. ARMY AIR FORCES
WASHINGTON, D. C.
PREPARED WITH THE ASSISTANCE OF TIME INC.

CONFIDENTIAL

NOT TO BE TAKEN INTO THE AIR
ON OFFENSIVE MISSIONS

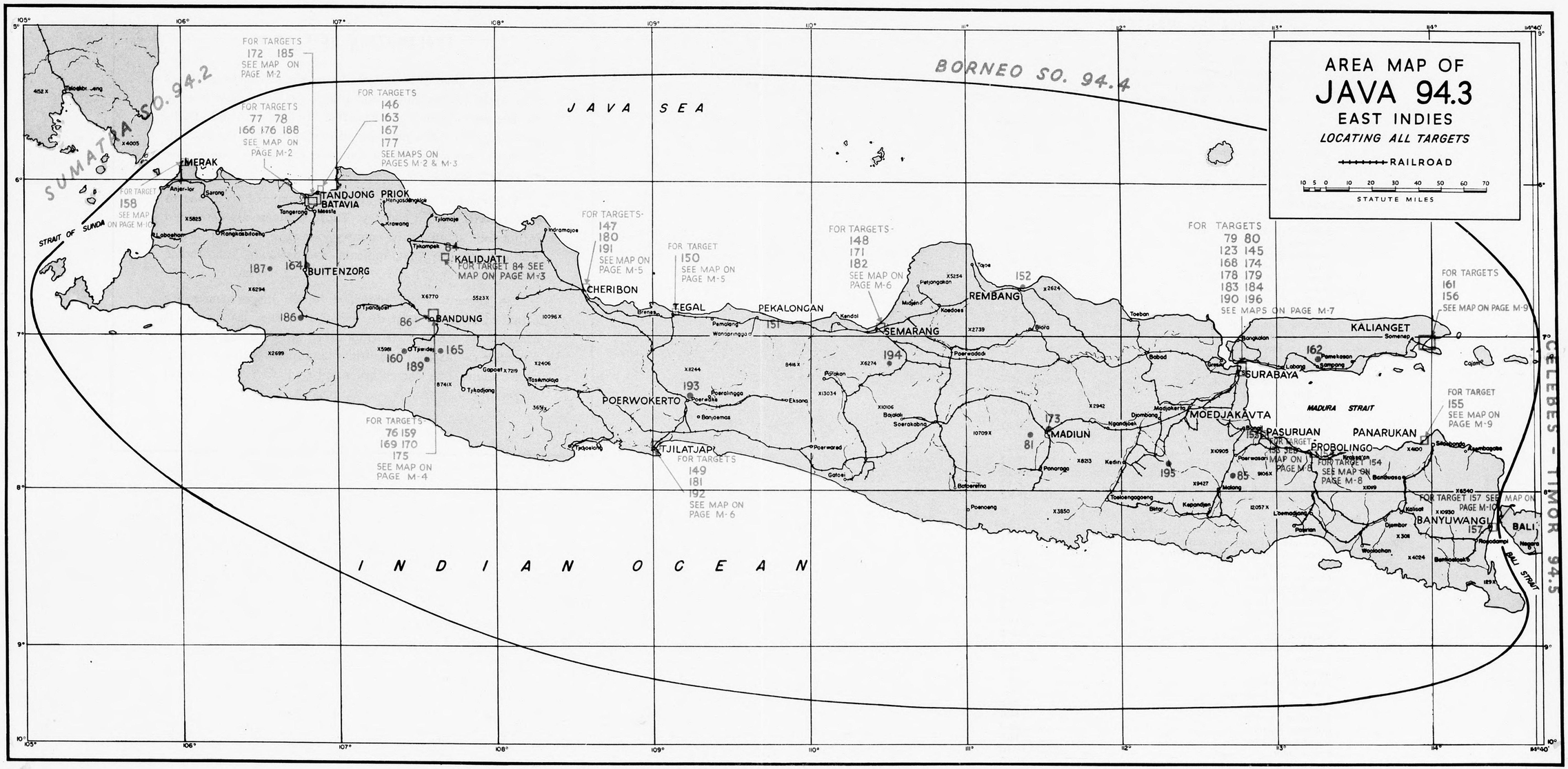
EXPLANATION OF FOLDER

This folder covers the targets lying within the Java Objective Area, Netherlands East Indies (94.3). It 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. Those numbers are combined into a code showing the country, objective area and target. For example, 94.3-170 indicates Netherlands East Indies (94), Java Area (3) and TARGET 170, N.E.I. 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 twelve-mile radius. The charts are numbered after their central targets.

3531M—T-3—Java


AREA MAP OF
JAVA 94.3
EAST INDIES
LOCATING ALL TARGETS
RAILROAD
10 5 0 10 20 30 40 50 60 70
STATUTE MILES
SUMATRA SO. 94.2
BORNEO SO. 94.4
JAVA SEA
INDIAN OCEAN
STRAIT OF SUNDA
MADURA STRAIT
BALI STRAIT
CELEBES - TIMOR 94.5
MERAK
TANDJONG PRIOK
BATAVIA
BUITENZORG
KALIDJATI
CHERIBON
TEGAL
PEKALONGAN
SEMARANG
REMBANG
KALIANGET
SURABAYA
MOEDJAKAVTA
MADIUN
PASURUAN
PANARUKAN
PROBOLINGO
BANYUWANGI
BALI
POERWOKERTO
TJILATJAP
BANDUNG
FOR TARGETS 172 185 SEE MAP ON PAGE M-2
FOR TARGETS 77 78 166 176 188 SEE MAP ON PAGE M-2
FOR TARGETS 146 163 167 177 SEE MAPS ON PAGES M-2 & M-3
FOR TARGET 158 SEE MAP ON PAGE M-10
FOR TARGET 84 SEE MAP ON PAGE M-3
FOR TARGETS 147 180 191 SEE MAP ON PAGE M-5
FOR TARGET 150 SEE MAP ON PAGE M-5
FOR TARGETS 148 171 182 SEE MAP ON PAGE M-6
FOR TARGETS 79 80 123 145 168 174 178 179 183 184 190 196 SEE MAPS ON PAGE M-7
FOR TARGETS 161 156 SEE MAP ON PAGE M-9
FOR TARGETS 76 159 169 170 175 SEE MAP ON PAGE M-4
FOR TARGETS 149 181 192 SEE MAP ON PAGE M-6
FOR TARGET 155 SEE MAP ON PAGE M-9
FOR TARGET 154 SEE MAP ON PAGE M-8
FOR TARGET 157 SEE MAP ON PAGE M-10
105° 106° 107° 108° 109° 110° 111° 112° 113° 114° 114°40'
5° 6° 7° 8° 9° 10°

SUMMARY AND EVALUATION OF AREA

NOTE: The information contained in this folder is the best obtainable in the U. S. A. Every effort should be made in the field to verify it by photo reconnaissance.

Objective Area 94.3 consists of Java and Madura Islands. Java is the most important island of the Netherlands East Indies as it is more extensively developed than any other and contains Batavia, the capital of the colonial government. Population is 40,800,000, of which 200,000 are Europeans.

Java is 620 miles long and has a maximum width of 120 miles. A volcanic mountain range, which includes great plateaus, spans the island in an East-West direction and many of the peaks attain heights of 10,000 feet. This range is flanked on the north by lowlands and on the south by secondary mountain ranges. Most of the rivers run northward from the central range.

Principal products are rice (4,400,000 tons annually), sugar (1,500,000 to 3,000,000 tons a year), tea, coffee, quinine, coconuts, kapok, palm oil, and other agricultural commodities. Javan oil fields yielded 6,168,000 barrels of crude (12% of Japanese requirement) in 1940. Mineral products are manganese ore (12,000 tons a year), sulphur, iodine, and salt. It is difficult or impossible to prevent the production of any of these commodities through aerial attack. However, their export to Japan can be impeded by destruction of railroad facilities and harbors. There are relatively few industrial facilities in Java. These consist largely of machine shops and constructional iron works, sugar mills, vegetable oil factories, small munitions plants, and three petroleum refineries.

The oil fields and petroleum refineries were destroyed by the Dutch before their withdrawal. These have probably not been restored as the fields and refineries in Borneo and Sumatra are more valuable and are doubtless receiving first attention by the enemy.* The small munitions plants were also demolished, as well as railroad bridges and harbor facilities, but judging by their past performance the Japanese have probably restored the railroads and harbor facilities by this time.

While the amount of destruction wrought by the Dutch and the degree of restoration achieved by the Japanese are uncertain factors, the targets included in this folder are believed to be in a condition rendering them worthy of bombing.

Only permanent military and civil air bases have been listed as targets. For emergency fields see Airport Directory for East Indies and Philippine Islands.

*By the time that operations against Java are begun, however, restoration of the refineries may well have been completed. The most important refinery was at Tjepoe, (7° 09′ S; 111° 36′ E) on the N bank of the Bengawan-Solo River in the NE part of town. This refinery had a daily capacity of 15,000 bbls., including 3000 bbls. of cracking capacity. A second refinery was at Wonokromo (7° 18′ S; 112° 45′ E) on the S bank of the Wonokromo Canal, directly E of the Wonokromo RR Station. This refinery had a daily capacity of 2000 bbls., with no cracking capacity. The third refinery in Java, at Kapoean, was very small and of little importance.

3531—T-5—Java—11-17-42—Final Proof

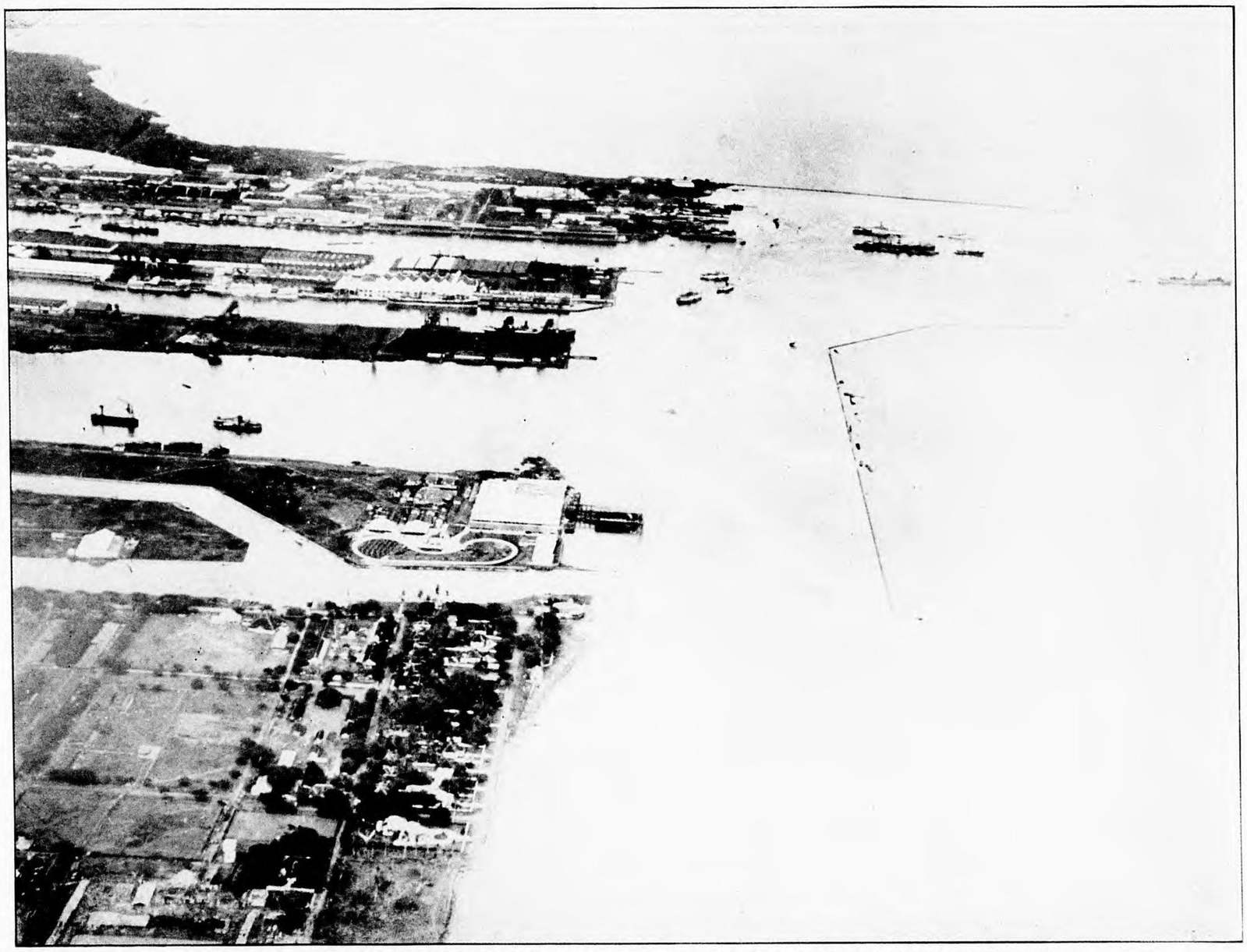


PHOTO C . . . TANDJONG PRIOK — TARGET 145 — Harbor looking W by N (view A).

PHOTO D . . . TANDJONG PRIOK — TARGET 146 — Harbor looking SE (view B).

3531—P-2—Java—11-17-42—Final Proof

PHOTOGRAPHS OF JAVA AREA 94.3

3531—P·1—Java—11-17-42—Final Proof

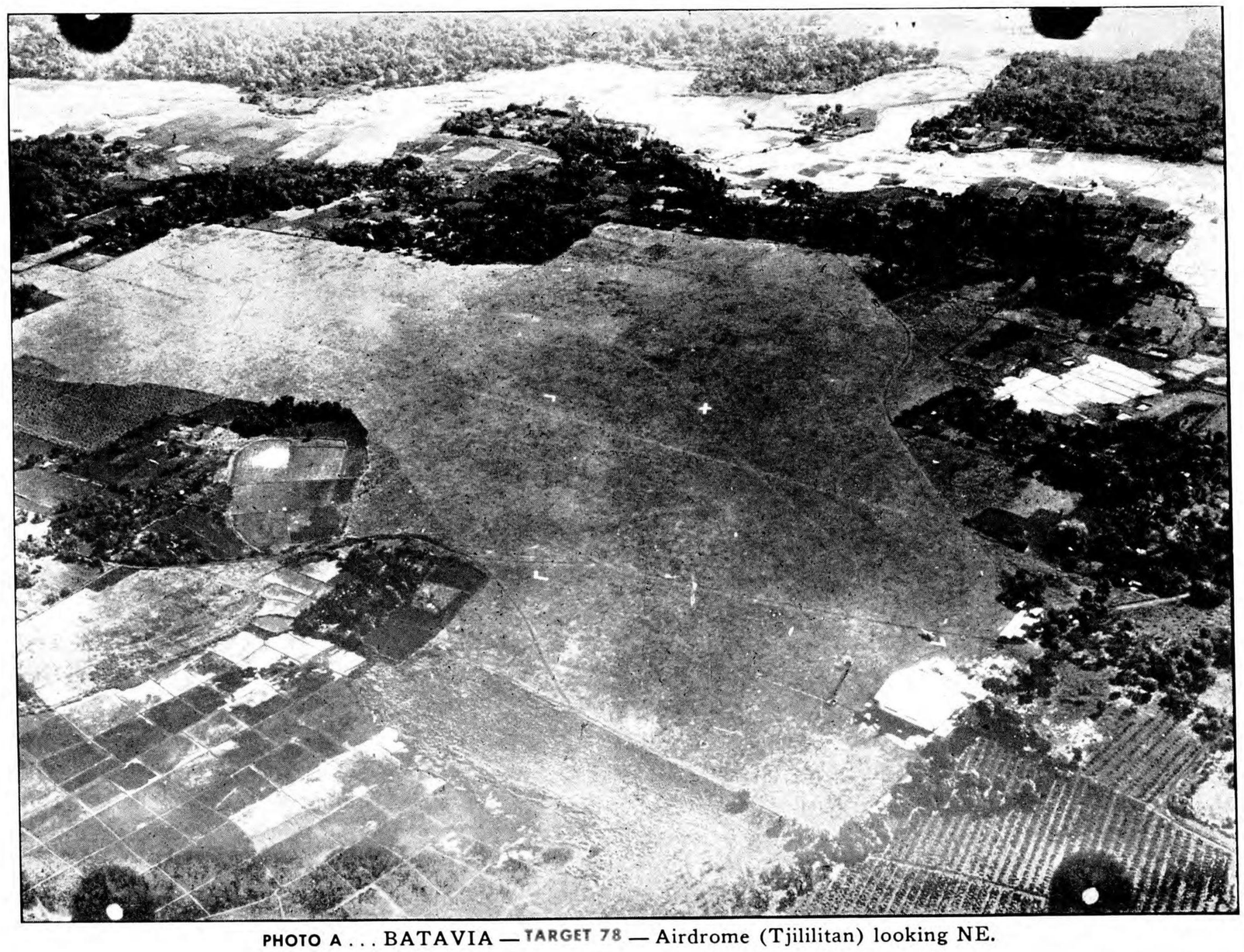


PHOTO A . . . BATAVIA — TARGET 78 — Airdrome (Tjililitan) looking NE.

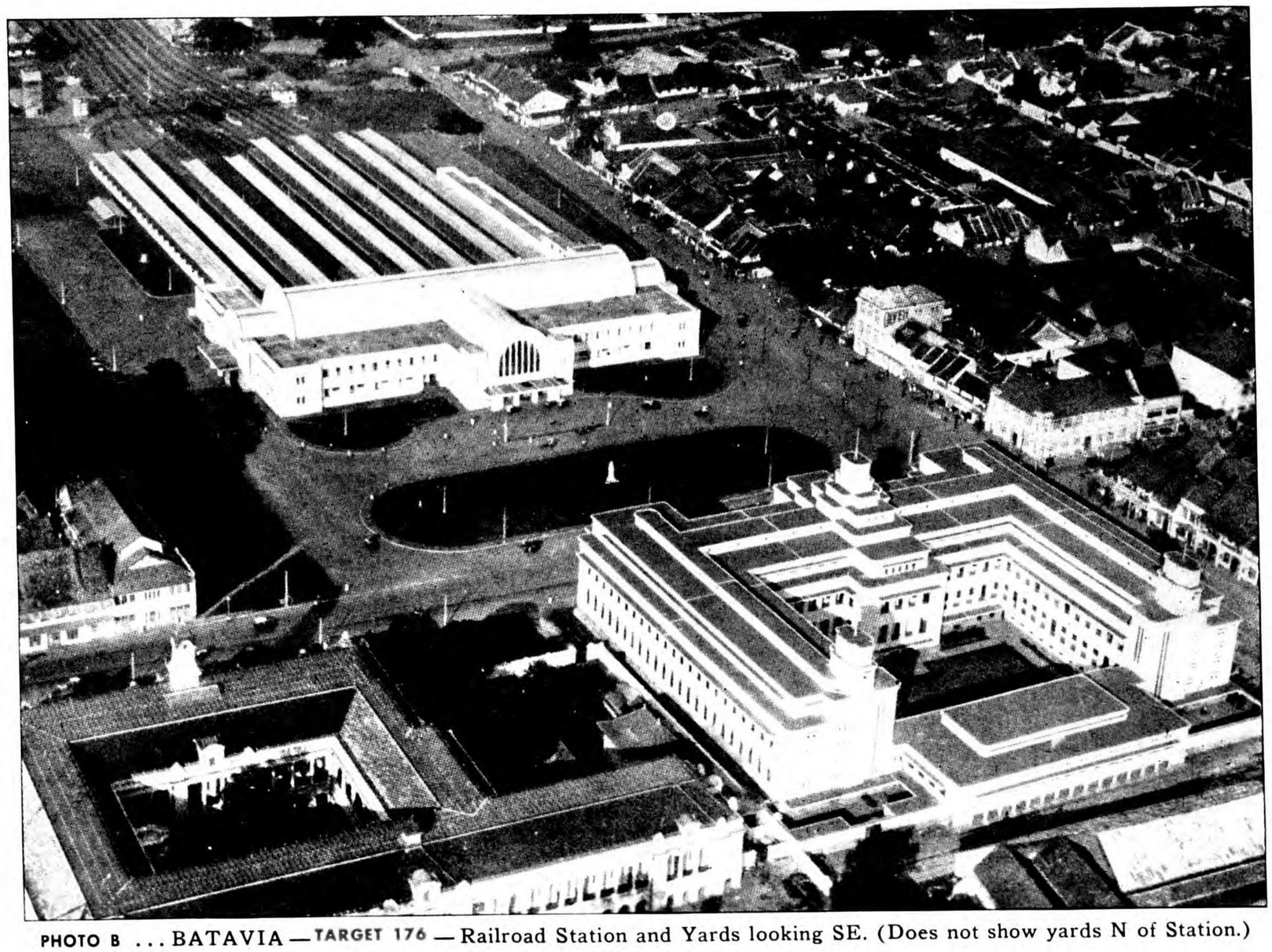


PHOTO B . . . BATAVIA — TARGET 176 — Railroad Station and Yards looking SE. (Does not show yards N of Station.)

JAVA AREA . . . continued

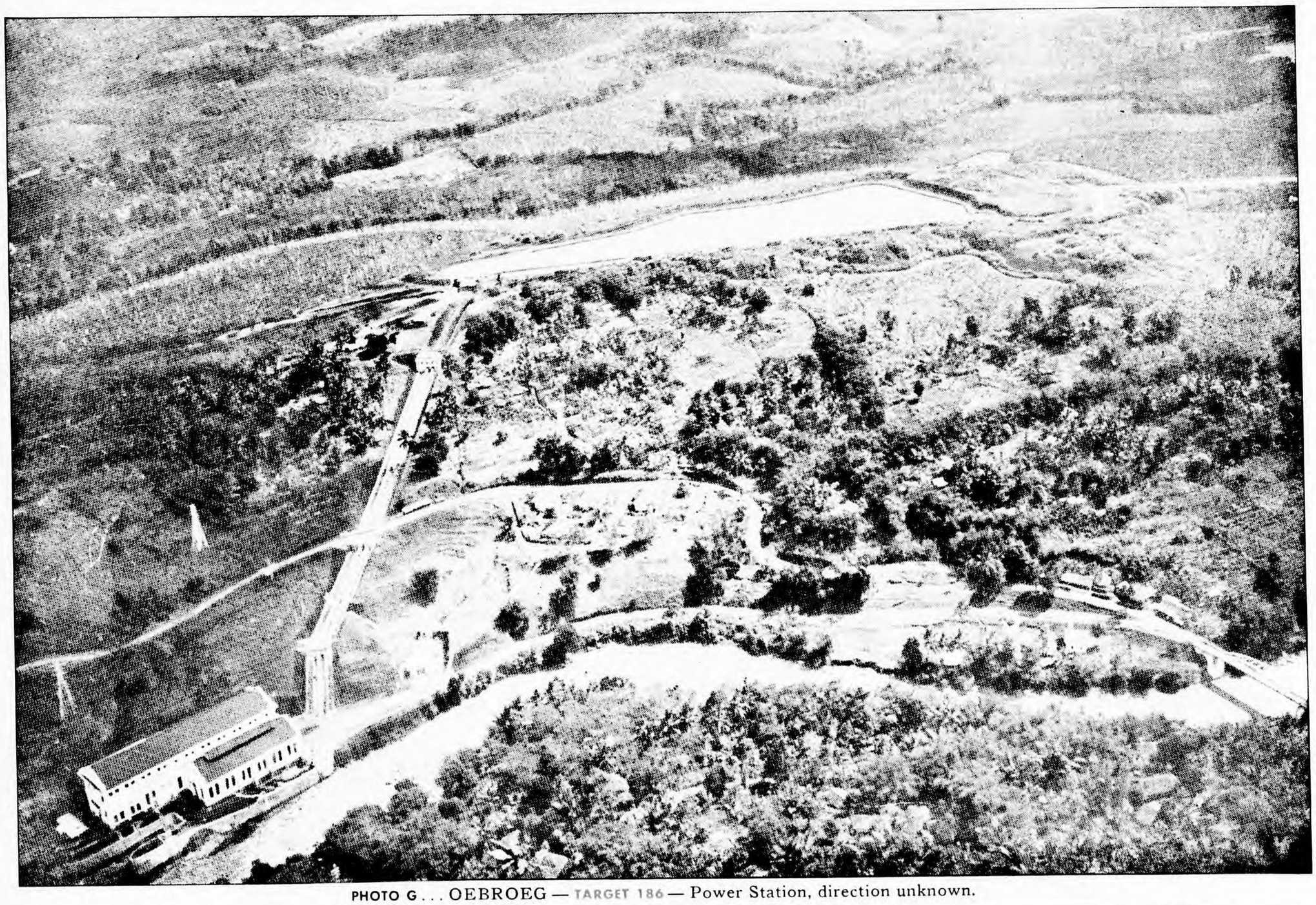


PHOTO G . . . OEBROEG — TARGET 186 — Power Station, direction unknown.

PHOTO H . . . KALIDJATI — TARGET 84 — Airfield looking N.

3531—P-4—Java—11-17-42—Final Proof

3531—P-3—Java—11-17-42—Final Proof

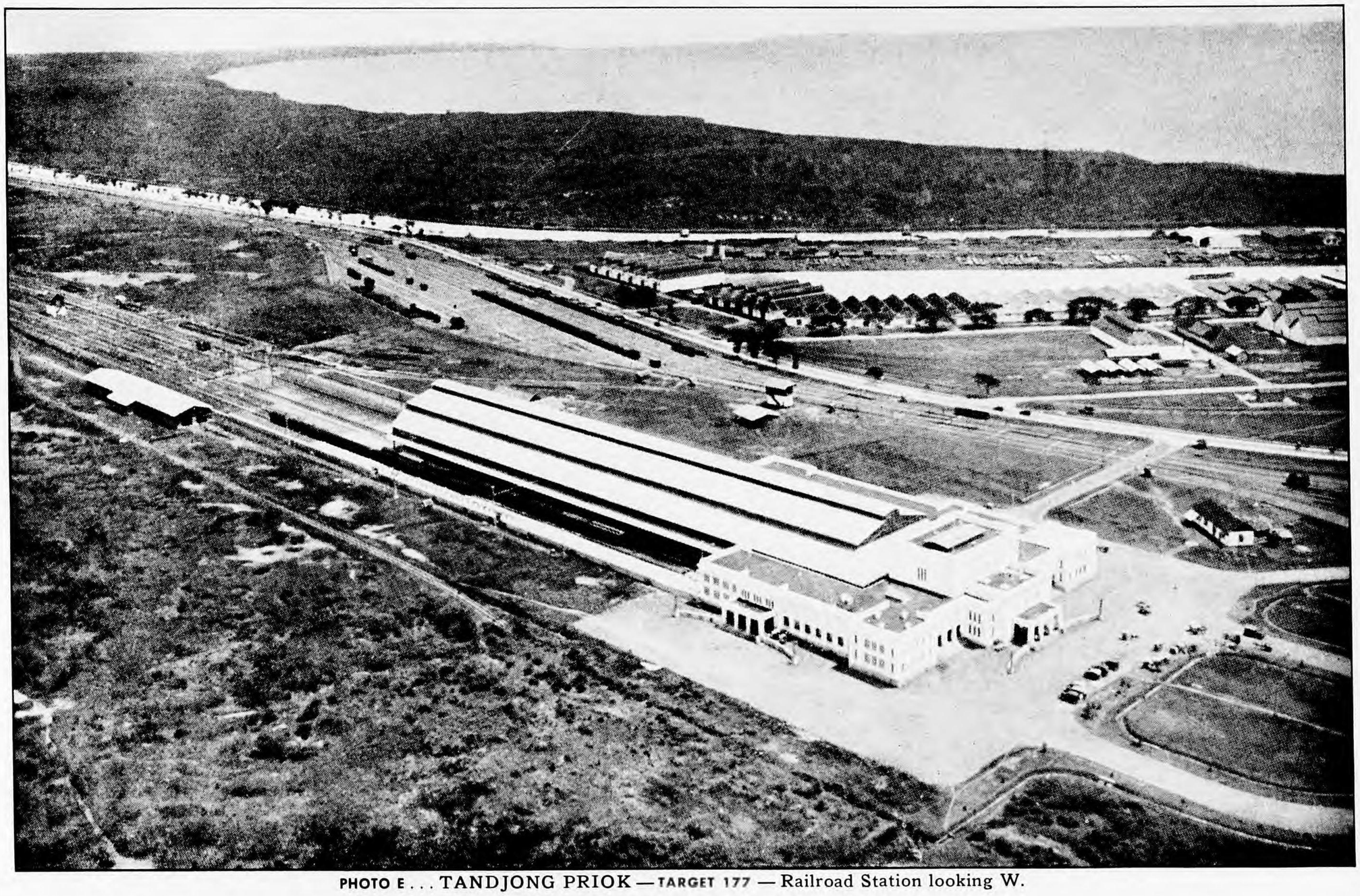


PHOTO E . . . TANDJONG PRIOK — TARGET 177 — Railroad Station looking W.

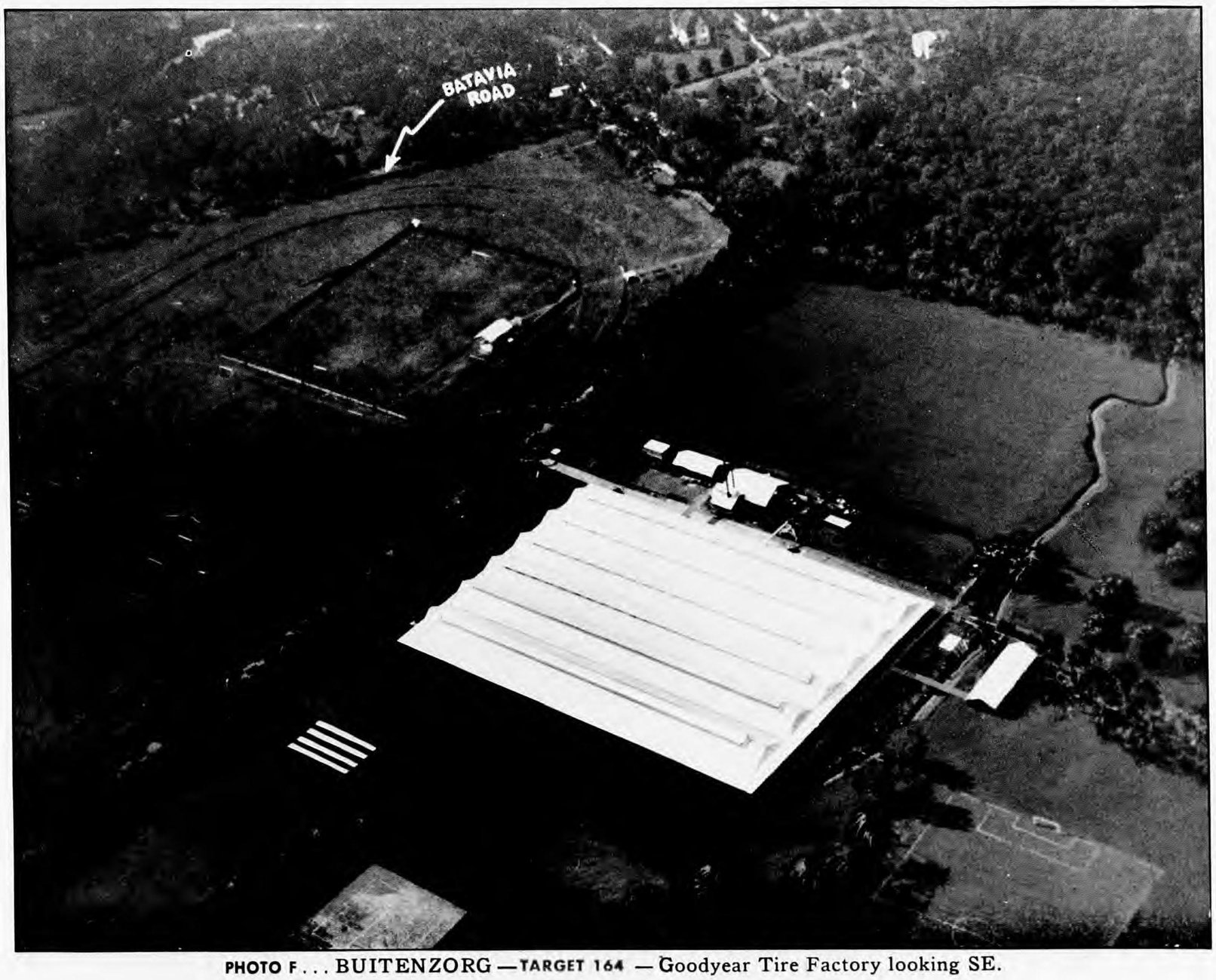


PHOTO F . . . BUITENZORG — TARGET 164 — Goodyear Tire Factory looking SE.

JAVA AREA . . . continued

PHOTO K . . . BANDUNG — TARGET 175 — Railroad Station and Repair Shops looking S.

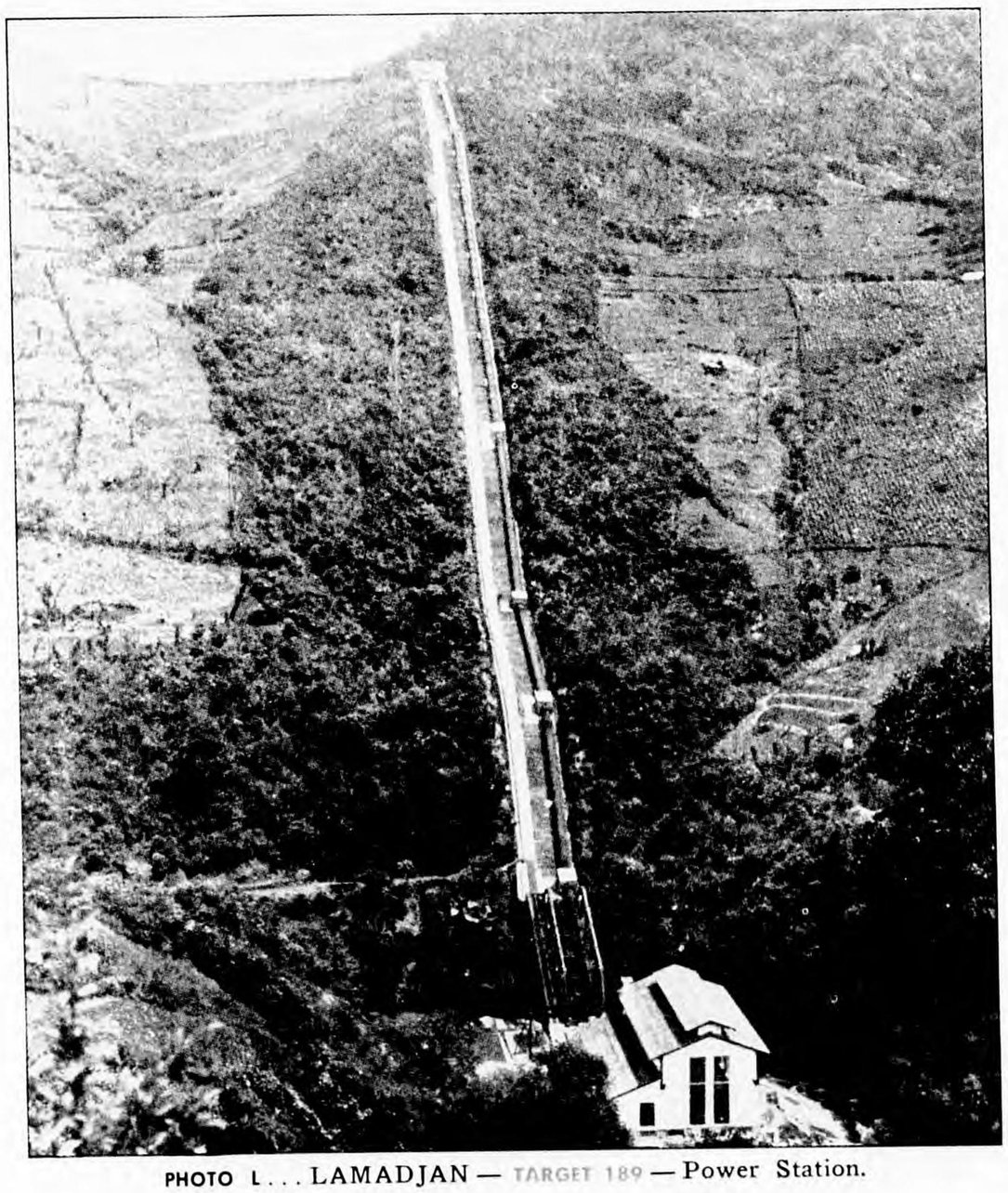


PHOTO L . . . LAMADJAN — TARGET 189 — Power Station.

3531 — P-6 — Java — 11-17-42 — Final Proof

3531—P-5—Java—11-17-42—Final Proof

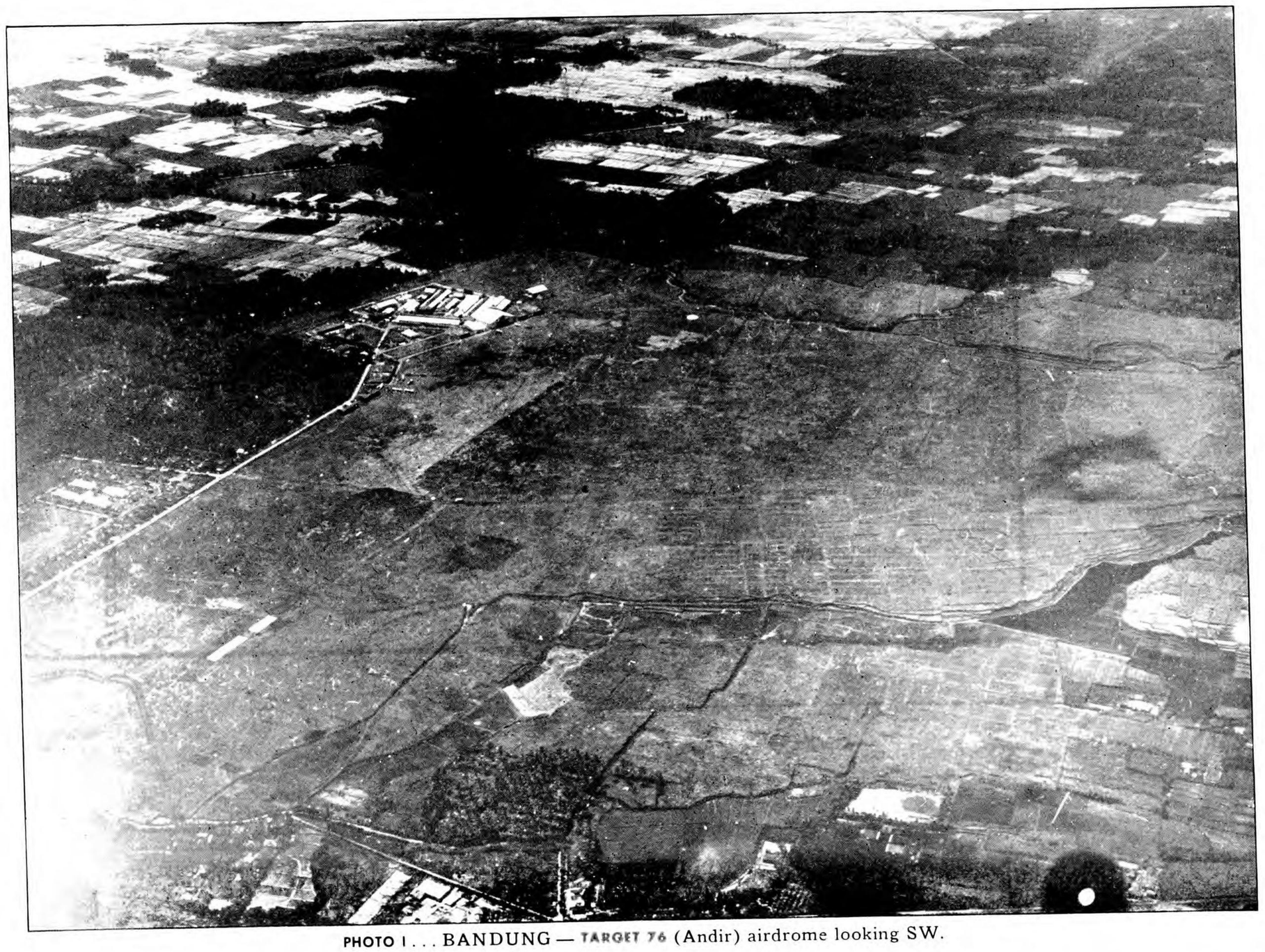


PHOTO I . . . BANDUNG — TARGET 76 (Andir) airdrome looking SW.

PHOTO J . . . BANDUNG — TARGET 159 — Quinine Factory looking S.

JAVA AREA . . . continued

PHOTO O . . . CHERIBON — TARGET 147 — Harbor looking NW.

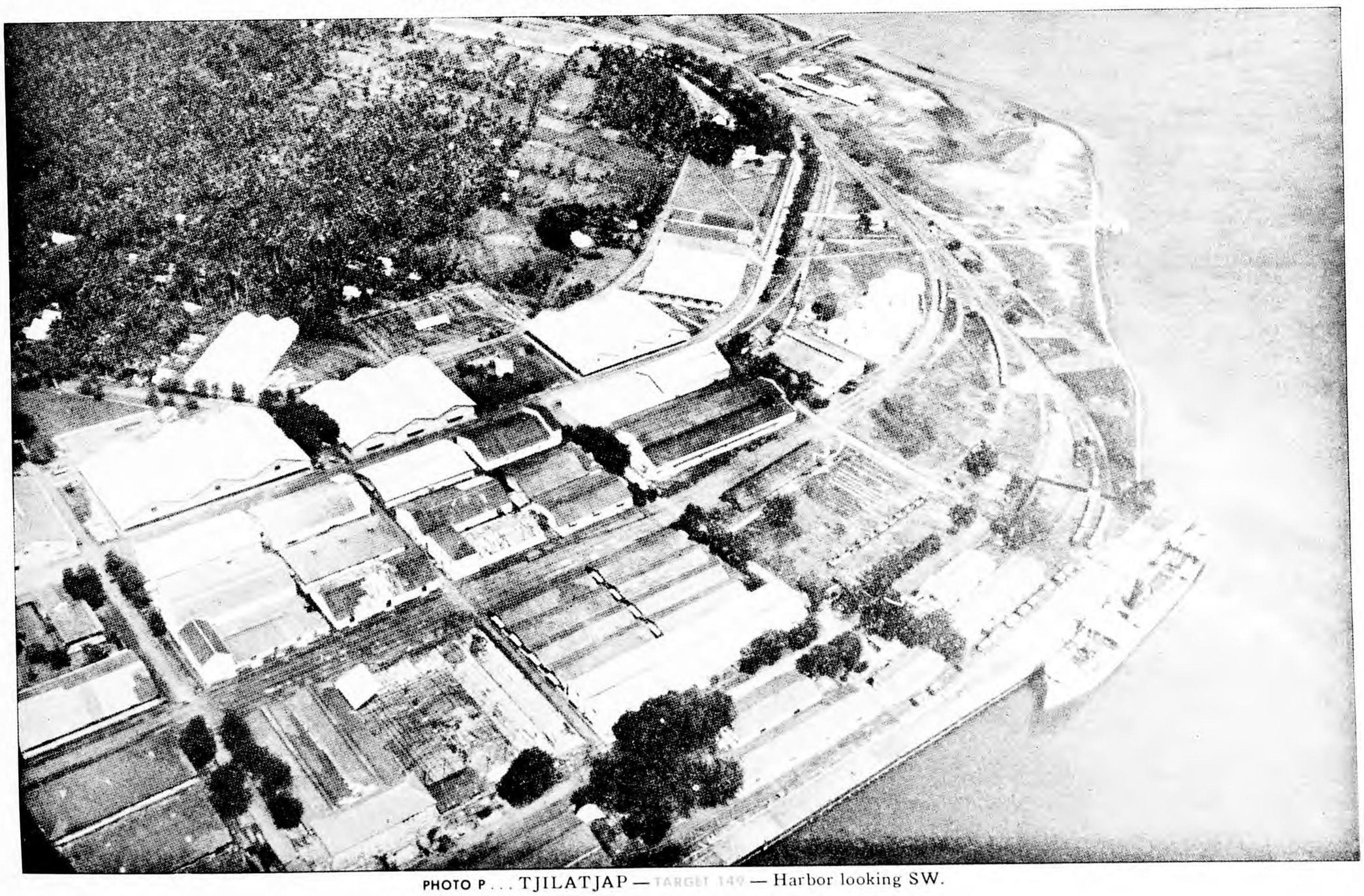


PHOTO P . . . TJILATJAP — TARGET 149 — Harbor looking SW.

3531—P-7—Java—11-17-42—Final Proof

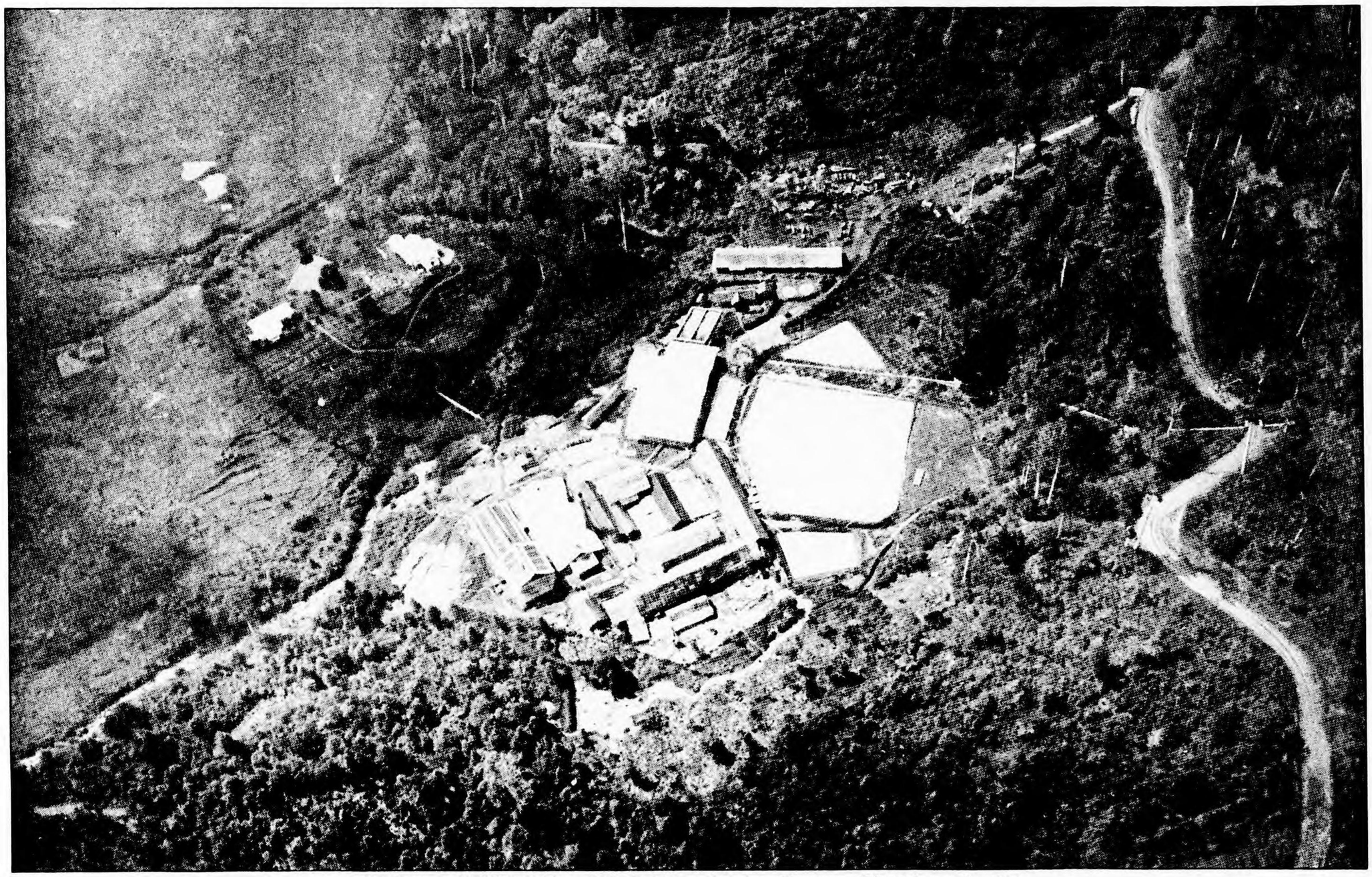


PHOTO M . . . TJIBODAS — TARGET 160 — Sulphur Factory. Direction unknown.

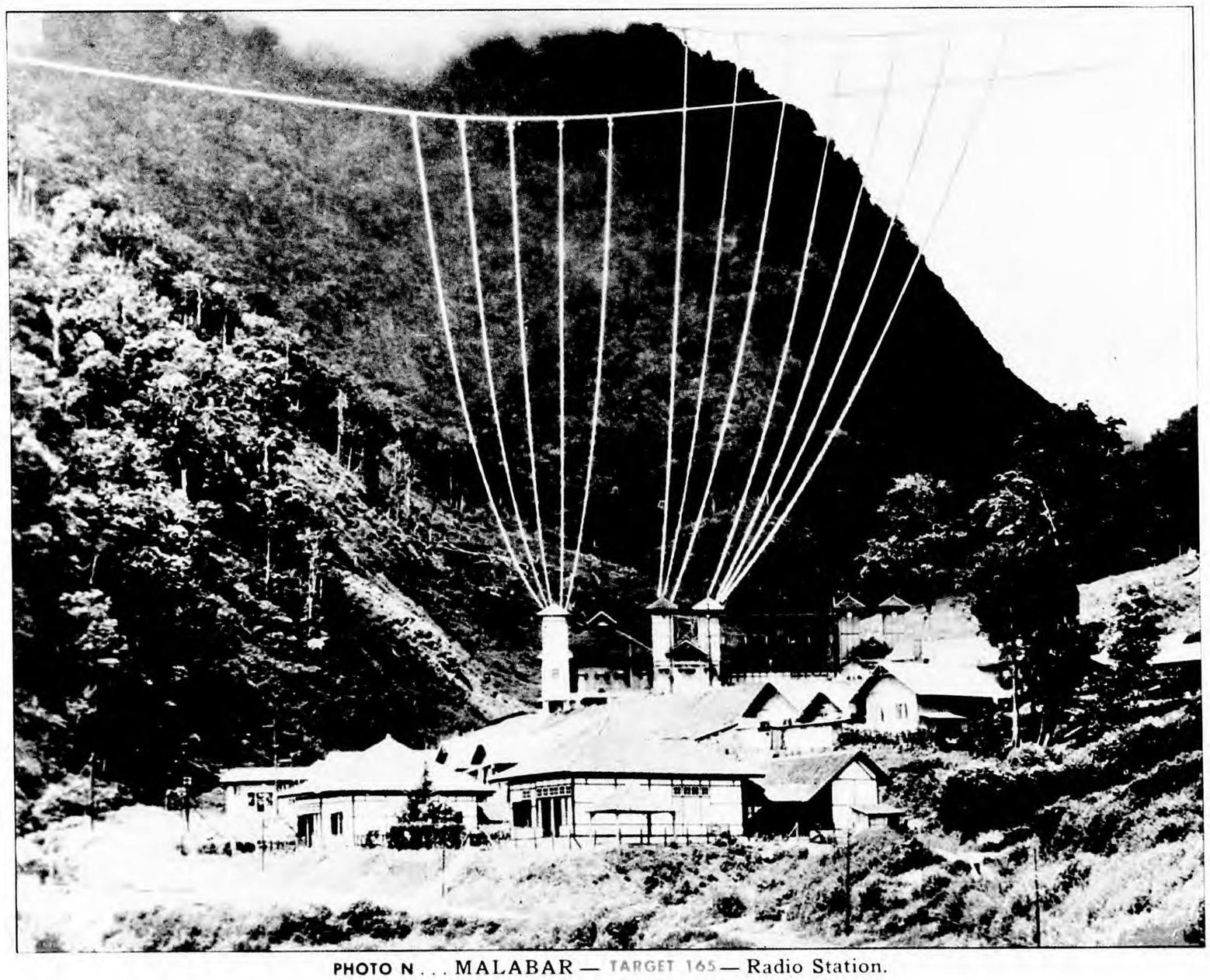


PHOTO N . . . MALABAR — TARGET 165 — Radio Station.

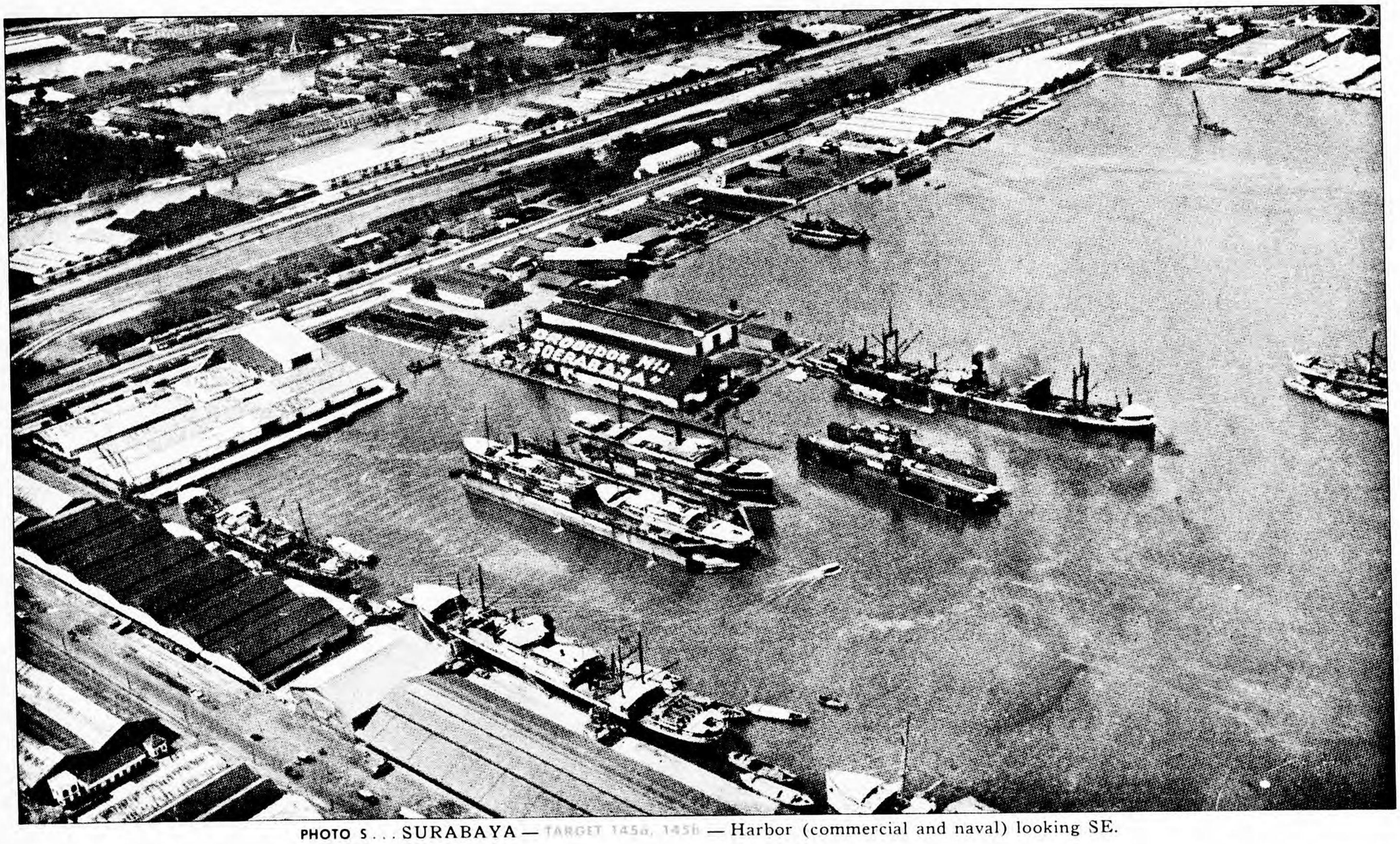


PHOTO S . . . SURABAYA — TARGET 145a, 145b — Harbor (commercial and naval) looking SE.

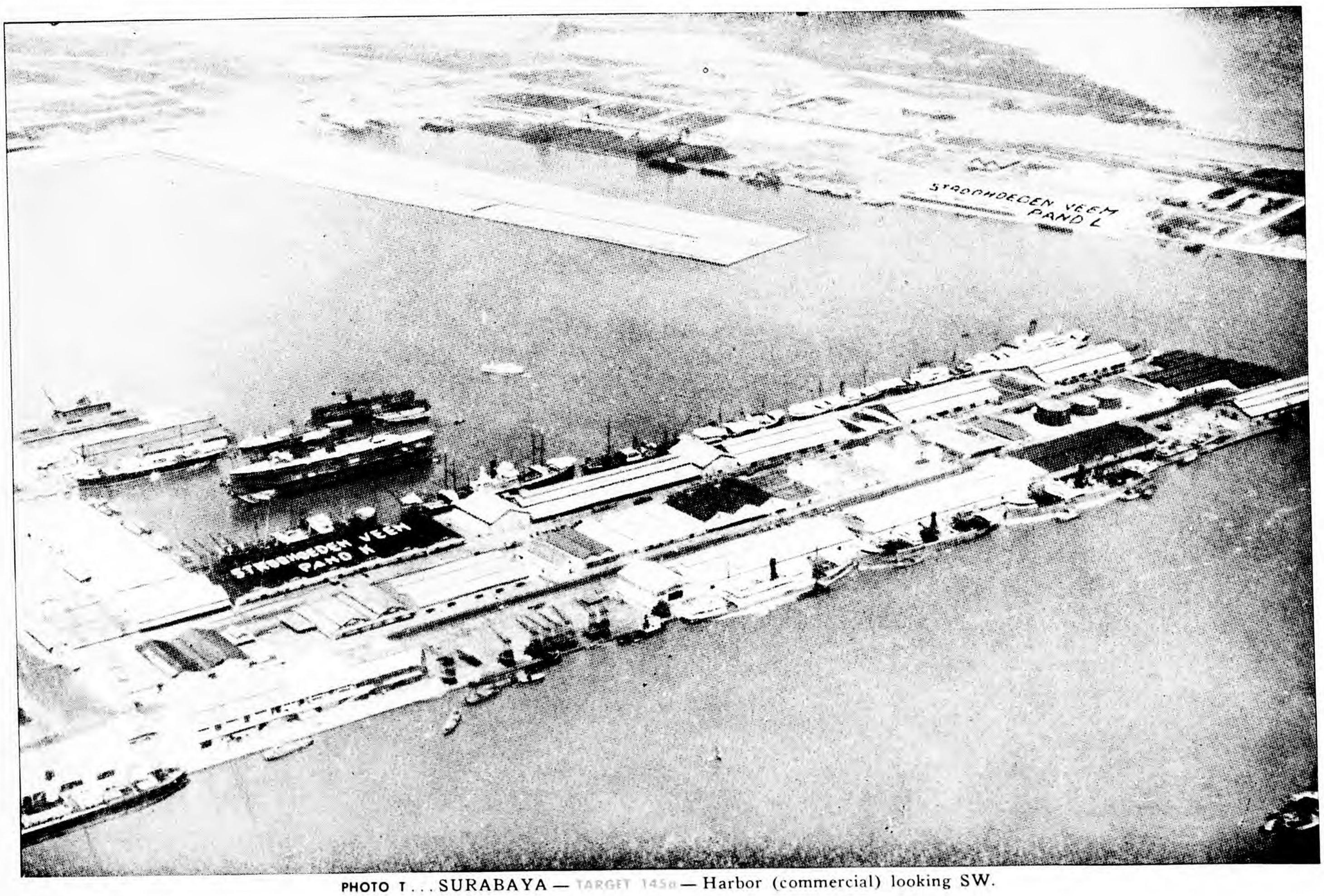


PHOTO T . . . SURABAYA — TARGET 145a — Harbor (commercial) looking SW.

5531 P-10 Java 11-15-42 Final Proof

3531—P-9—Java—11-17-42—Final Proof

PHOTO Q . . . SEMARANG — TARGET 148 — Harbor looking S.

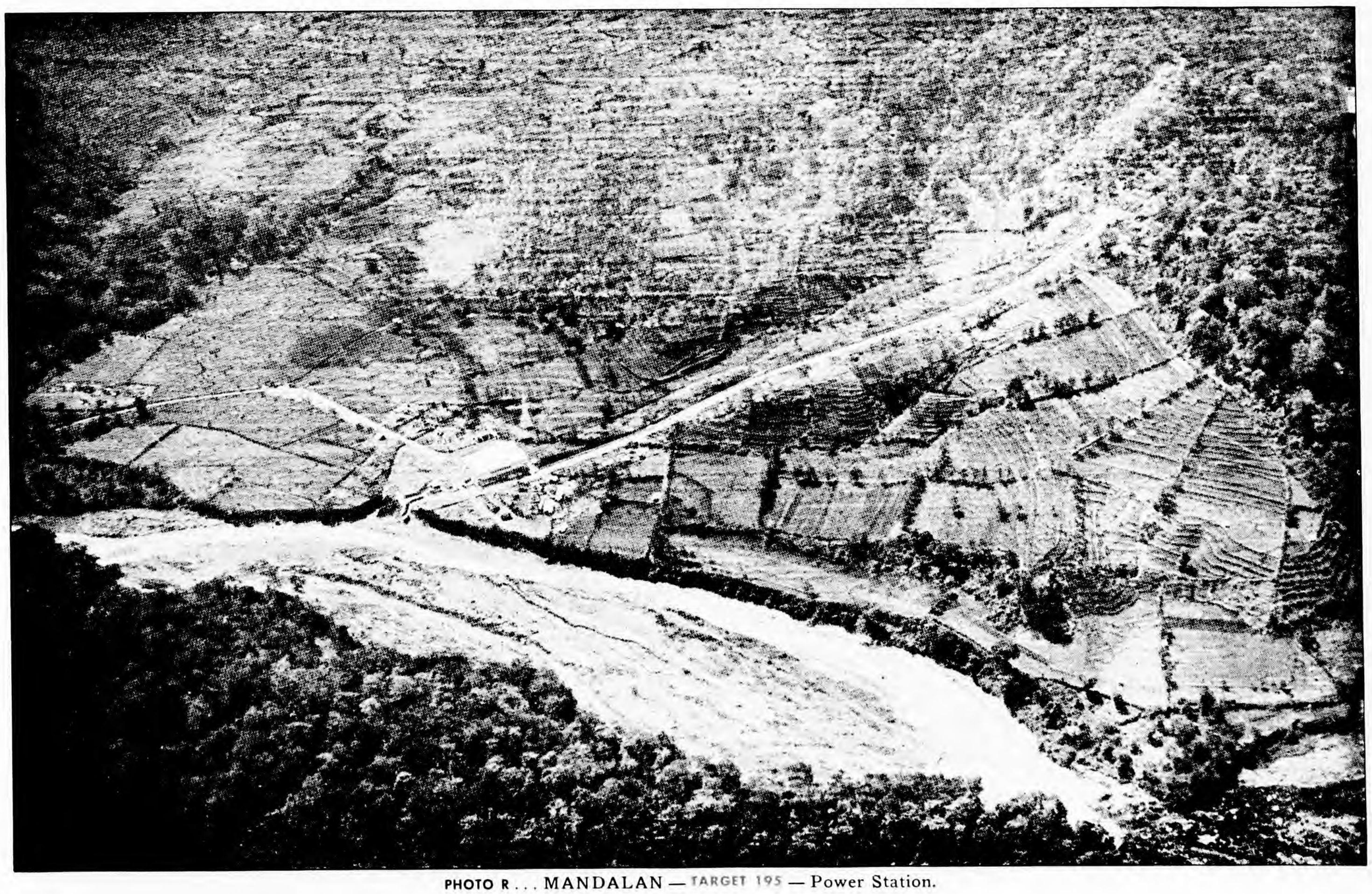


PHOTO R . . . MANDALAN — TARGET 195 — Power Station.

3531—P-11—Java—11-17-42—Final Proof

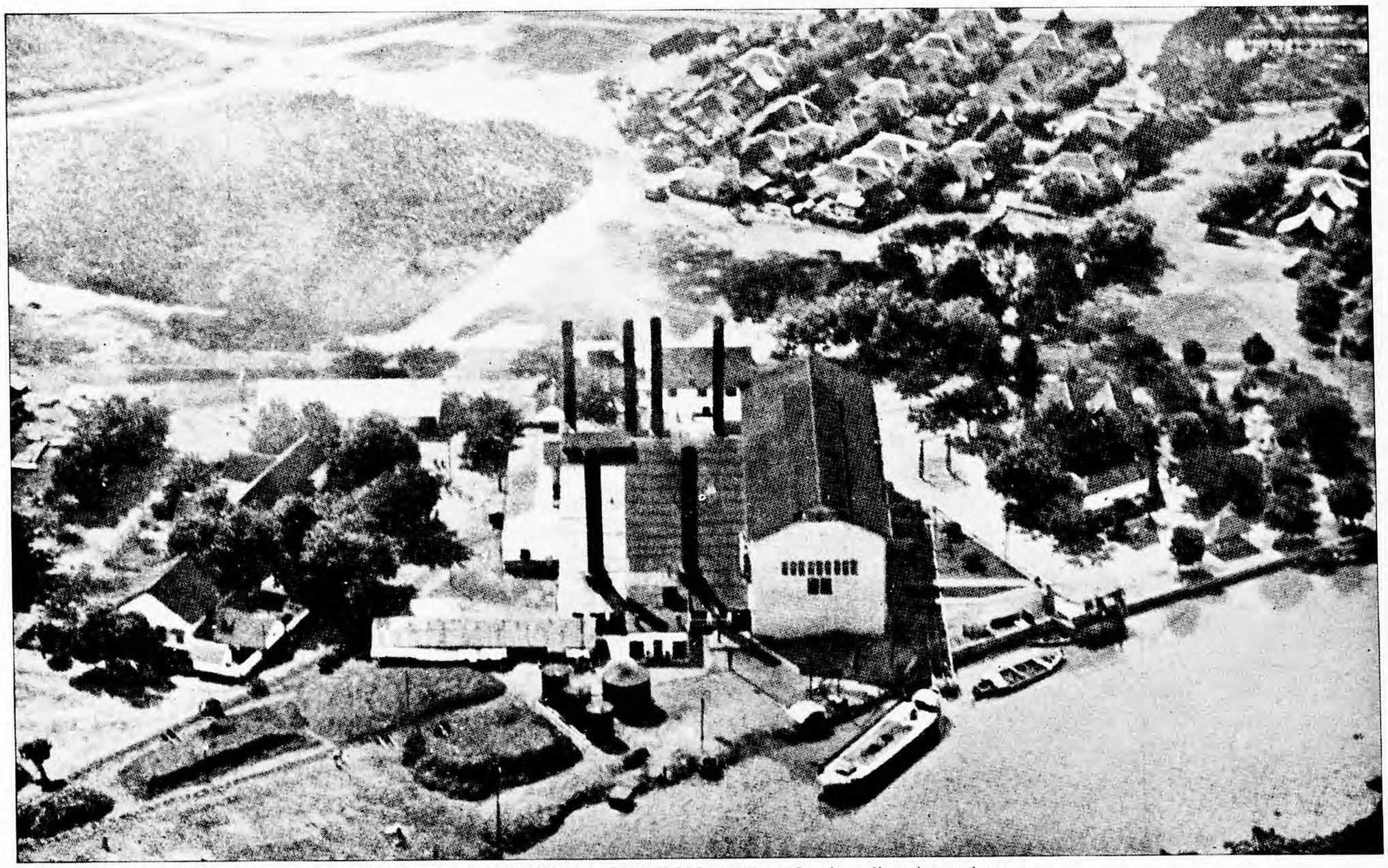


PHOTO U . . . SEMAMPIR — TARGET 190 — Power Station, direction unknown.

PHOTO V . . . SURABAYA — TARGET 178 — Town Railroad Station looking NE.

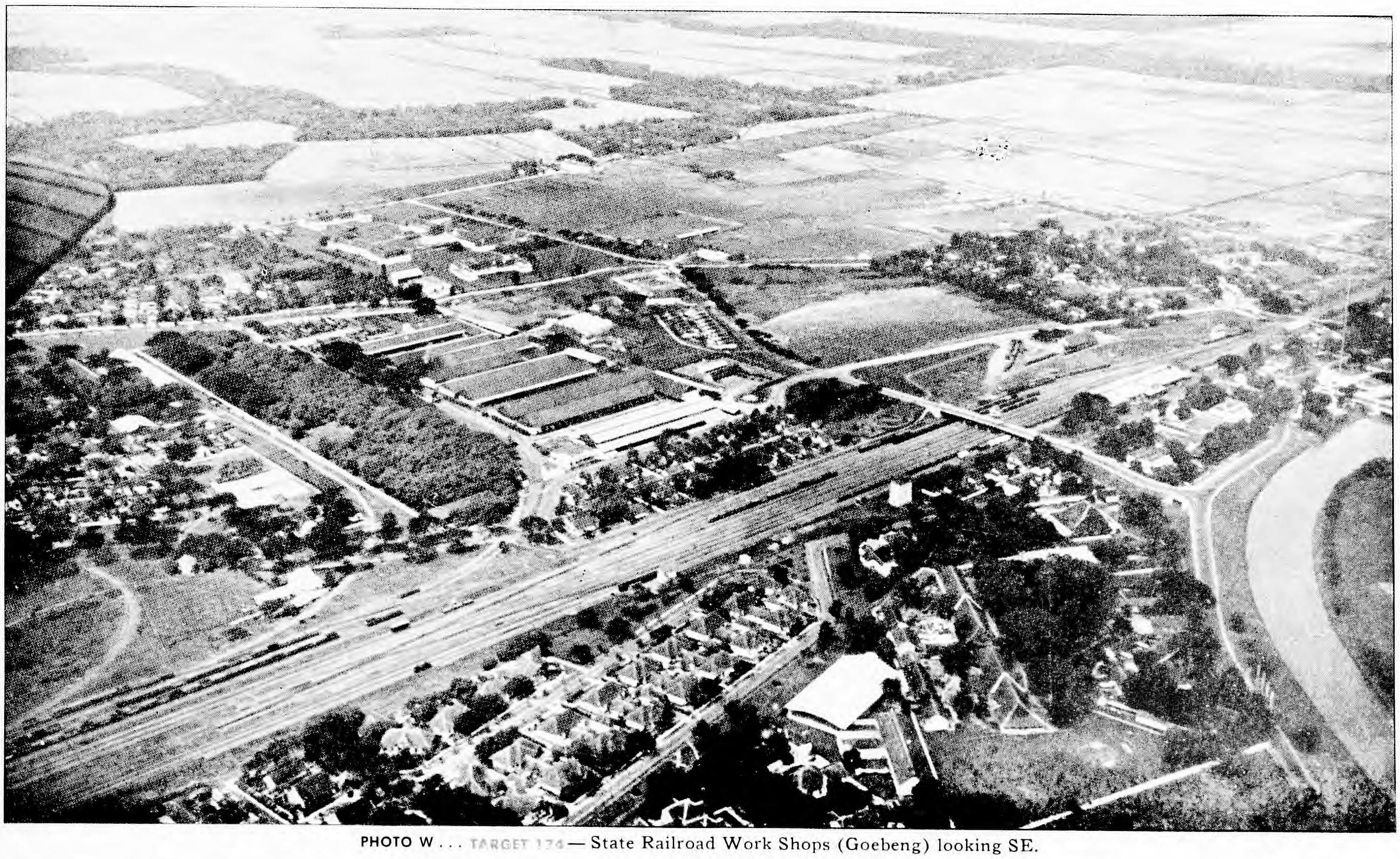


PHOTO W . . . TARGET 174 — State Railroad Work Shops (Goebeng) looking SE.

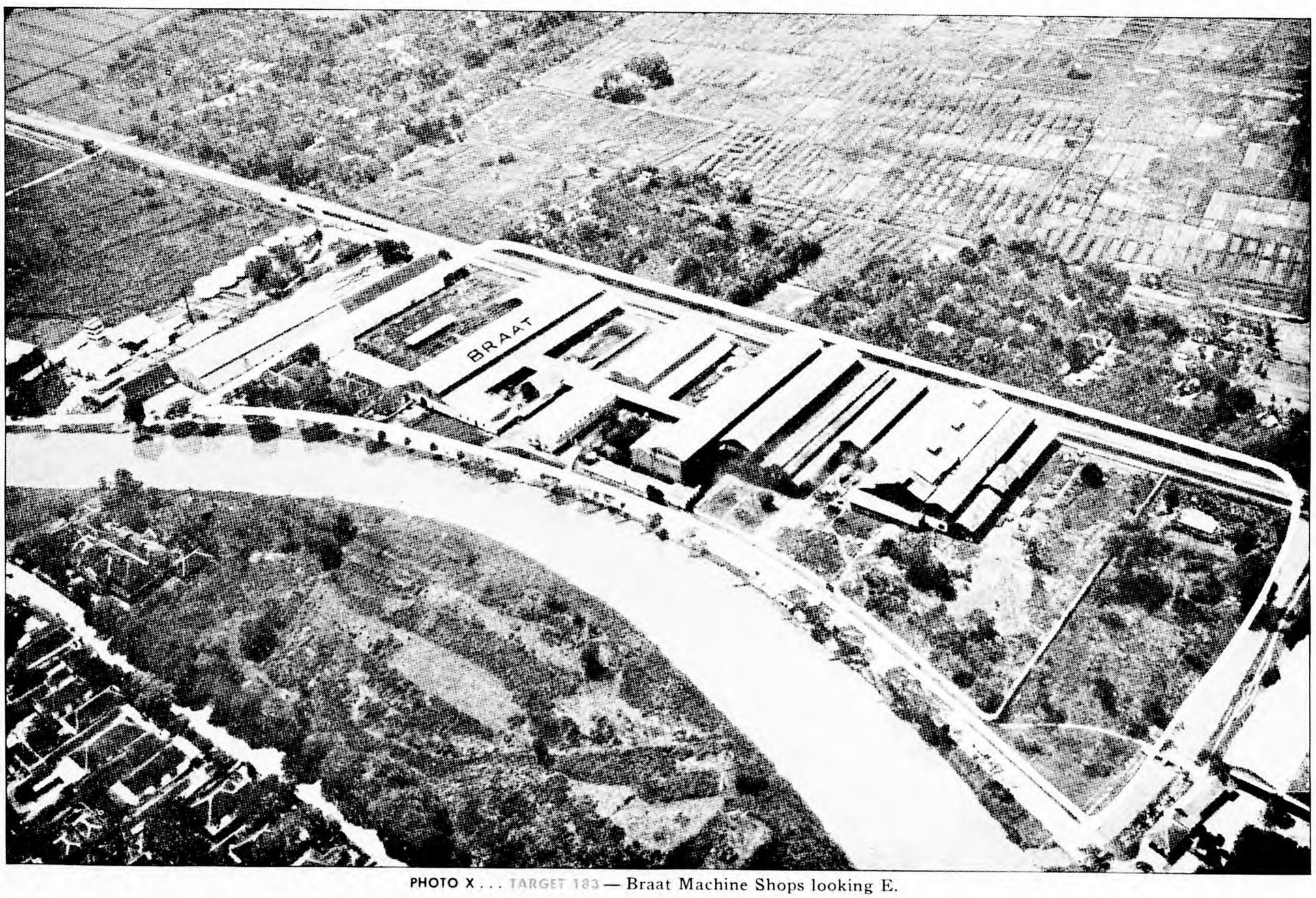


PHOTO X . . . TARGET 183 — Braat Machine Shops looking E.

3531—P-12—Java—11-17-42—Final Proof

3531—P-13—Java—11-17-42—Final Proof

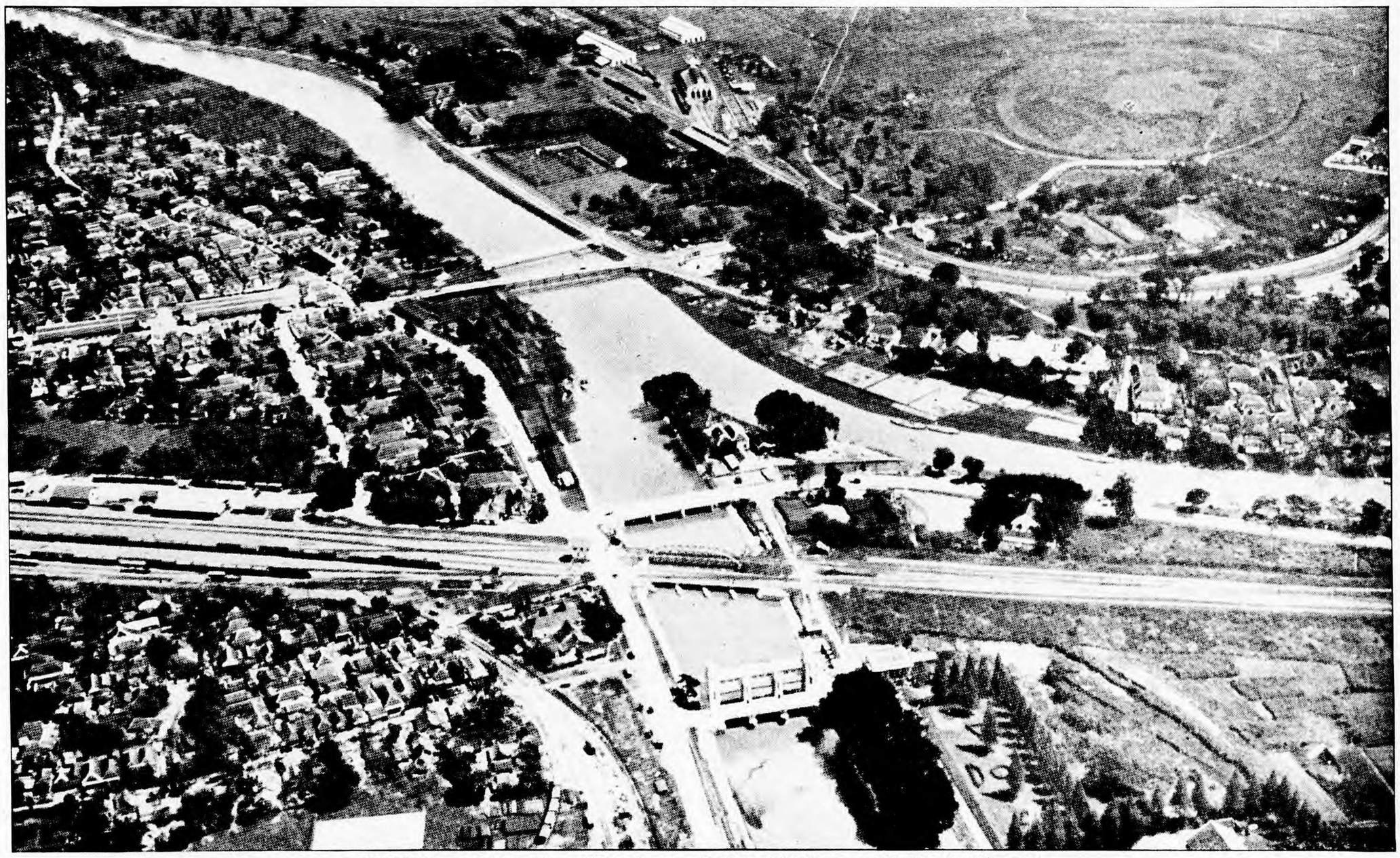


PHOTO Y . . . TARGET 196 — Wonokromo Railroad Station and Bridge looking W.

PHOTO Z . . . SURABAYA — TARGET 80 — Airdrome (Dermo) looking E.

TABULATION OF TARGET INFORMATION

TARGET NO.	TARGET NAME	APPROXIMATE COORDINATES	DESCRIPTION AND SIGNIFICANCE	TARGET CHART NO.
		AIRPORTS		
76	Bandung (Andir) Airdrome	06° 54′ S 107° 35′ E	Mil adrm. Alt 2428 ft. 2 mi WNW of Bandung. 3280 by 3280 ft. Entire field available. Grass with concrete runway 3600 ft. Suitable for heavy bombers. Facilities complete. See photo I on page P-5 and map on page M-4.	**159**
77	Batavia (Kemajoran) Airdrome	06° 09′ S 106° 51′ E	Mil adrm. Alt 17 ft. 3 mi E of Batavia. Two circular runways both 1312 by 164 ft. Asphalt. Facilities complete. See map on page M-2.	**166**
78	Batavia (Tjililitan) Airdrome	06° 16′ S 106° 54′ E	Mil adrm. Alt 98 ft. 8 mi SSE of Batavia. 2 runways of 4200 and 3300 ft in length. Level sod suitable at all times. One runway concrete. Facilities complete. See photo A on page P-1, and map on page M-2.	**78**
79	Surabaya (Tandjong Perak) Airdrome	07° 12′ S 112° 43′ E	Mil adrm. Alt 10 ft. 1½ mi NW of Surabaya, ⅗ mi SW of port of Tandjong Perak. N-S 3280 by 131 ft. Concrete runways, otherwise grass. Facilities complete. See map on page M-7.	**174**
80	Surabaya (Dermo) Airdrome	07° 18′ S 112° 43′ E	Mil adrm. Alt 33 ft. 3 mi S of Surabaya. N-S & NW-SE, each 3150 by 135 ft. Grass, unsuitable after heavy rains. Runways concrete. Facilities complete. See photo Z on page P-13 and map on page M-7.	**174**
81	Madiun Airfield	07° 40′ S 111° 24′ E	Mil airfield. Alt 360 ft. 5 mi W of Madiun. 5250 by 4590 ft. Hard sod, good. Facilities: hangar, fuel, radio, repairs.	**81**
84	Kalidjati Airfield	06° 32′ S 107° 40′ E	Mil airfield. Alt 361 ft. 7 mi WNW of Soebang, ⅔ mi SW of Kalidjati. NW-SE & NNE-SSW, 4900 by 3200 ft. Grass. Some parts in NW are soft during Nov to March monsoon. Facilities: fuel, repairs, hangars, radio, RR & Rd. See photo H on page P-4 and map on page M-3.	**84**
85	Malang Airfield	07° 54′ S 112° 42′ E	Mil airfield. Alt 1108 ft. Along Malang-Blimbing RR, W of Lingusan. Triangular, each side 5250 ft. Grass, good. Facilities: hangars, repairs, fuel, radio.	**85**
86	Bandung (Tjitarum) Airfield	06° 57′ S 107° 28′ E	Mil airfield. Alt 2900 ft. 3 mi S of Bandung. NE-SW & NW-SE each 3280 by 164 ft. Grass; hard, dry soil. Facilities: fuel, telephone.	None
123	Surabaya (Morokrembangan) Naval Air Station	07° 13′ S 112° 43′ E	Alt: 0 ft. About 2 mi NW of Surabaya. Facilities: Fuel, hangars, ramps, repairs. May have been destroyed. See map on page M-7.	**174**
		AUTOMOBILES—MOTORS		
163	General Motors Assembly Plant	06° 06′ S 106° 53′ E	At Tandjong Priok Harbor. Big. See maps on pages M-2 and M-3.	**177**
		CHEMICALS		
159	Bandung Quinine Factory	06° 54′ S 107° 36′ E	About ⅖ mi N of Bandung RR shops. Big, important. See photo J on page P-5 and maps on page M-4.	**159**
160	Tjibodas Sulphur Factory	07° 07′ S 107° 26′ E	Near Patoeha Mt. (7980 ft high) & Tjiwidej R. Important. See photo M on page P-7.	**160**

3531—T-6—Java—11-17-42—Final Proof

SUMMARY AND EVALUATION OF AREA

NOTE: The information contained in this folder is the best obtainable in the U. S. A. Every effort should be made in the field to verify it by photo reconnaissance.

Objective Area 94.3 consists of Java and Madura Islands. Java is the most important island of the Netherlands East Indies as it is more extensively developed than any other and contains Batavia, the capital of the colonial government. Population is 40,800,000, of which 200,000 are Europeans.

Java is 620 miles long and has a maximum width of 120 miles. A volcanic mountain range, which includes great plateaus, spans the island in an East-West direction and many of the peaks attain heights of 10,000 feet. This range is flanked on the north by lowlands and on the south by secondary mountain ranges. Most of the rivers run northward from the central range.

Principal products are rice (4,400,000 tons annually), sugar (1,500,000 to 3,000,000 tons a year), tea, coffee, quinine, coconuts, kapok, palm oil, and other agricultural commodities. Javan oil fields yielded 6,168,000 barrels of crude (12% of Japanese requirement) in 1940. Mineral products are manganese ore (12,000 tons a year), sulphur, iodine, and salt. It is difficult or impossible to prevent the production of any of these commodities through aerial attack. However, their export to Japan can be impeded by destruction of railroad facilities and harbors. There are relatively few industrial facilities in Java. These consist largely of machine shops and constructional iron works, sugar mills, vegetable oil factories, small munitions plants, and three petroleum refineries.

The oil fields and petroleum refineries were destroyed by the Dutch before their withdrawal. These have probably not been restored as the fields and refineries in Borneo and Sumatra are more valuable and are doubtless receiving first attention by the enemy.* The small munitions plants were also demolished, as well as railroad bridges and harbor facilities, but judging by their past performance the Japanese have probably restored the railroads and harbor facilities by this time.

While the amount of destruction wrought by the Dutch and the degree of restoration achieved by the Japanese are uncertain factors, the targets included in this folder are believed to be in a condition rendering them worthy of bombing.

Only permanent military and civil air bases have been listed as targets. For emergency fields see Airport Directory for East Indies and Philippine Islands.

*By the time that operations against Java are begun, however, restoration of the refineries may well have been completed. The most important refinery was at Tjepoe, (7° 09′ S; 111° 36′ E) on the N bank of the Bengawan-Solo River in the NE part of town. This refinery had a daily capacity of 15,000 bbls., including 3000 bbls. of cracking capacity. A second refinery was at Wonokromo (7° 18′ S; 112° 45′ E) on the S bank of the Wonokromo Canal, directly E of the Wonokromo RR Station. This refinery had a daily capacity of 2000 bbls., with no cracking capacity. The third refinery in Java, at Kapoean, was very small and of little importance.

3531—T-5—Java—11-17-42—Final Proof

TABULATION OF TARGET INFORMATION

TARGET NO.	TARGET NAME	APPROXIMATE COORDINATES	DESCRIPTION AND SIGNIFICANCE	TARGET CHART NO.
		Harbor Facilities and Warehouses—continued		
146	Tandjong Priok Harbor	06° 06′ S 106° 53′ E	Second biggest harbor; very important. See photos C & D on page P-2 and maps on pages M-2 & M-3.	177
147	Cheribon Harbor	06° 43′ S 108° 34′ E	Small vessels only; secondary importance. See photo O on page P-8 and map on page M-5.	147
148	Semarang Harbor	06° 57′ S 110° 25′ E	Small vessels only; secondary importance. See photo Q on page P-9 and map on page M-6.	148
149	Tjilatjap Harbor	07° 44′ S 109° 00′ E	Only good S coast harbor; important. See photo P on page P-8 and map on page M-6.	149
150	Tegal Harbor	06° 51′ S 109° 08′ E	Small vessels only; secondary importance. See map on page M-5.	150
151	Pekalongan Harbor	06° 51′ S 109° 41′ E	Minor harbor.	151
152	Rembang Harbor	06° 41′ S 111° 21′ E	Minor harbor.	152
153	Pasuruan Harbor	07° 42′ S 112° 56′ E	Minor harbor. See map on page M-8.	153
154	Probolingo Harbor	07° 43′ S 113° 13′ E	Minor harbor. See map on page M-8.	154
155	Panarukan Harbor	07° 41′ S 113° 56′ E	Small but fairly important. See map on page M-9.	155
156	Kalianget Harbor	07° 03′ S 113° 57′ E	Small but fairly important. See map on page M-9.	156
157	Banyuwangi Harbor	08° 13′ S 114° 23′ E	Small; fairly important; provides connection with Island of Bali. See map on page M-10.	157
158	Merak Harbor	05° 56′ S 106° 00′ E	Small; fairly important; provides connection with Sumatra. See map on page M-10.	158
		MACHINES, MACHINE TOOLS		
182	Lindetevis-Stokvis Co.	06° 58′ S 110° 25′ E	S of Semarang Harbor, E of Kali Baroe Canal. Big machine shop and structural iron works. See map on page M-6.	148
183	Braat Machine Shops	07° 17′ S 112° 45′ E	Surabaya; on E bank of Surabaya R between Goebeng and Wonokromo RR Sta. Big. See photo X on page P-12 and maps on page M-7.	174
184	Ned. Indische Industrie	07° 14′ S 112° 44′ E	Surabaya on E bank of Kali Mas Canal, 500 yds S of Ft Prins Hendrick. Machine shop, structural iron works. See maps on page M-7.	174
185	Lindetevis-Stokvis, Batavia	06° 09′ S 106° 49′ E	S of RR Sta on E bank of Molenvliet Canal. Machine shop, steel drum factory, paint factory. See maps on page M-2.	166
		RUBBER		
164	Goodyear Tire Factory	06° 35′ S 106° 47′ E	Large, important plant. In N part of Buitenzorg. See photo F on page P-3.	164

3531—T-8—Java—11-17-42—Final Proof

TABULATION OF TARGET INFORMATION

TARGET NO.	TARGET NAME	APPROXIMATE COORDINATES	DESCRIPTION AND SIGNIFICANCE	TARGET CHART NO.
			Chemicals—continued	
161	Kalianget Salt Factory	07° 03′ S 113° 56′ E	About ¾ mi NW of Kalianget. Fairly important. See map on page M-9.	156
162	Krampon Salt Factory	07° 10′ S 113° 15′ E	Short distance up Pengarengan R. Fairly important.	162
			COMMUNICATIONS	
165	Malabar Radio Station	07° 07′ S 107° 37′ E	Near Mt Malabar. Very powerful. See photo N on page P-7.	165
166	Batavia Telephone Exchange	06° 10′ S 106° 50′ E	N of Waterlooplein Park. See maps on page M-2.	166
167	Tandjong Priok Radio Station	06° 06′ S 106° 53′ E	At Tandjong Priok Harbor. Two 262 ft towers. See maps on pages M-2 and M-3.	177
168	Surabaya Telephone Exchange	07° 14′ S 112° 45′ E	Two mi S of harbor, directly W of Kali Mas Canal. See maps on page M-7.	174
169	Bandung Telephone Exchange	06° 55′ S 107° 37′ E	About ¾ mi E of RR Sta, just S of main RR tracks. See maps on page M-4.	159
170	Bandung Radio Station	06° 55′ S 107° 38′ E	E part of city, N of main RR tracks. Target area includes small Tjihapit Power Sta. See maps on page M-4.	159
			ELECTRIC POWER	
186	Oebroeg Power Station	06° 55′ S 106° 46′ E	Hydro. 17,300 kw, 35 mi S of Buitenzorg on Tjijatih R near Tjibadak. Supplies Batavia (and tramway), Buitenzorg, Soebaboemi. See photo G on page P-4.	186
187	Kratjak Power Station	06° 37′ S 106° 34′ E	Hydro. 11,000 kw, 12 mi W of Buitenzorg on Tjianten R. Supplies Buitenzorg. Connected with Oebroeg Sta.	187
188	Batavia Power Station	06° 13′ S 106° 51′ E	Steam. 7,900 kw. Near Manggarai RR shops. Connected with Oebroeg and Kratjak Stas. See maps on page M-2.	166
189	Lamadjan Power Station	07° 10′ S 107° 33′ E	Hydro. 19,200 kw. On Tjisankoei R S of Bandung, which it supplies. See photo L on page P-6.	189
190	Semampir Power Station	07° 12′ S 112° 46′ E	Steam. 13,000 kw. E of Surabaya Harbor, supplies Surabaya. See photo U on page P-11 and maps on page M-7.	174
191	Cheribon Power Station	06° 42′ S 108° 33′ E	Diesel. 1700 kw. Near harbor. See map on on page M-5.	147
192	Tjilatjap Power Station	07° 44′ S 109° 00′ E	Diesel. 800 kw. See map on page M-6.	149
193	Ketenger Power Station	07° 24′ S 109° 13′ E	Hydro. 10,500 kw. On Bandjaran R, N of Poerwokerto.	193
194	Djelok Power Station	07° 12′ S 110° 30′ E	Hydro. 14,400 kw. On Toetang R, S of Semarang, which it supplies.	194
195	Mandalan Power Station	07° 50′ S 112° 17′ E	Hydro. 22,000 kw. On Kali Konto R. Supplies Surabaya, Kediri, Malang residencies. See photo R on page P-9.	195
			HARBOR FACILITIES AND WAREHOUSES	
145a	Surabaya Harbor a) Commercial Harbor	07° 12′ S 112° 43′ E	Big; very important. See photos S & T on page P-10 and maps on page M-7.	174
145b	Naval Harbor	07° 12′ S 112° 44′ E	Big; very important. See photos S & T on page P-10 and maps on page M-7.	174

3531—T-7—Java—11-17-42—Final Proof

REVIEW OF TARGETS

Since Java's oil is for the time being denied to the Japanese, the most important targets are generally harbors and key points of the railroad system. Their destruction will impede the export of Java's agricultural and mineral wealth.

TARGET 145. Biggest harbor is Surabaya, lying north of the city, composed of a commercial harbor west of the Mas River and a naval harbor east of the river. This is a large harbor with complete facilities for docking, transfer and storage of cargo, fueling and repair of ships, and is served by extensive railroad sidings.

TARGET 146. Tandjong Priok, second largest harbor, is about 5 miles east of, and is the port for, Batavia. Has complete facilities for docking, cargo transfer and storage, fueling and repair of ships, and has railroad connections.

TARGET 149. Tjilatjap Harbor derives its importance partially from the fact that it is the only good harbor on Java's south coast. Has wharves, warehouses, fuel, and railroad connections.

TARGETS 147 and 148. Cheribon and Semarang Harbors, respectively, are of secondary importance, but are nevertheless capable of handling considerable volumes of cargo.

TARGETS 172, 173, 174 and 175, the railroad repair shops at Manggarai, Madiun, Goebeng, and Bandung. These shops are equipped to repair and rebuild all types of locomotives and rolling stock.

TARGET 171. The Semarang Railroad Center is the junction of two railroad lines of different gauges. Considerable transport of goods occurs here as Semarang is a harbor in the northern coastal area, the most important area of the island, and occupies a position part way between Batavia and Surabaya. Destruction of the Semarang yards would impede, but would not prevent, the East-West flow of traffic along the northern coast.

TARGET 176. Batavia Railroad Station and Yards. Traffic from all Java funnels into these yards en route to Tandjong Priok, Batavia's harbor.

TARGET 179. Surabaya Railroad Yards are at the harbor and handle the flow of goods from the interior of Java to the port, and vice-versa.

TARGET 180. Cheribon Railroad Yards are the junction of the Batavia-Surabaya coastal line and the line to Tjilatjap, the only good south coast harbor.

TARGET 159. The Bandung Quinine Factory, producing 3½ million ounces per month, is the only such factory in the Netherlands Indies. Because of the medicinal value of quinine, this plant is an important objective.

TARGET 164. The Goodyear Tire Factory at Buitenzorg produces daily 500 passenger car tires, 500 truck tires, and 900 tubes. This is the only tire factory in the Netherlands Indies.

3531—T-10—Java—11-17-42—Final Proof

LIST OF TARGET CHARTS AVAILABLE FOR JAVA AREA

Charts are numbered according to the target on which they are centered.

Chart Number	Targets Appearing on Chart
78	78.
81	81.
84	84.
85	85.
147	147, 180, 191.
148	148, 171, 182.
149	149, 181, 192.
150	150.
151	151.
152	152.
153	153.
154	154.
155	155.
156	156, 161.
157	157.
158	158.
159	76, 159, 169, 170, 175.
160	160.
162	162.
164	164.
165	165.
166	77, 166, 172, 176, 185, 188.
173	173.
174	79, 80, 123, 145a & b, 168, 174, 178, 179, 183, 184, 190, 196.
177	146, 163, 167, 177.
186	186.
187	187.
189	189.
193	193.
194	194.
195	195.

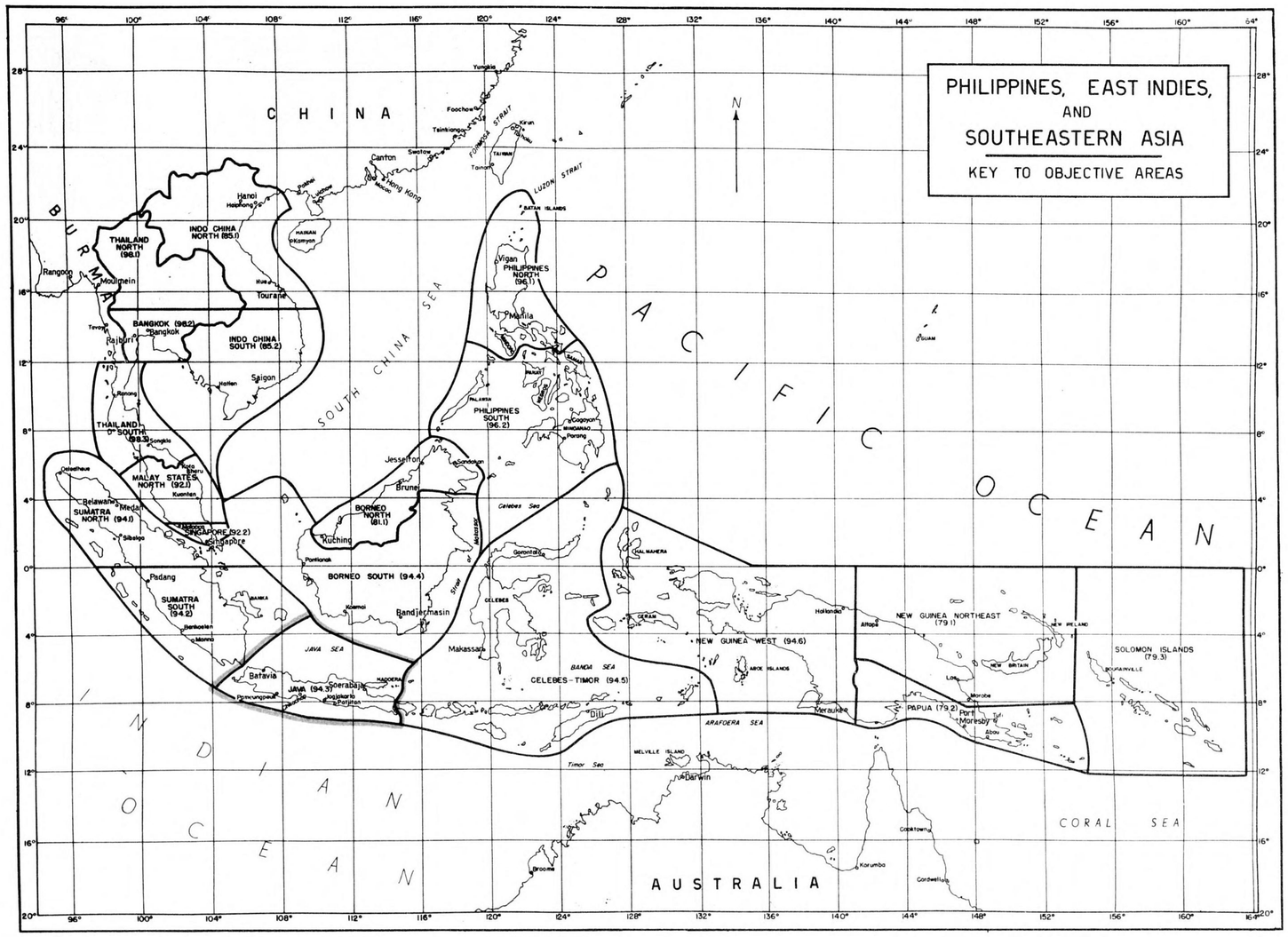
By [illegible] NARA, Date [illegible]

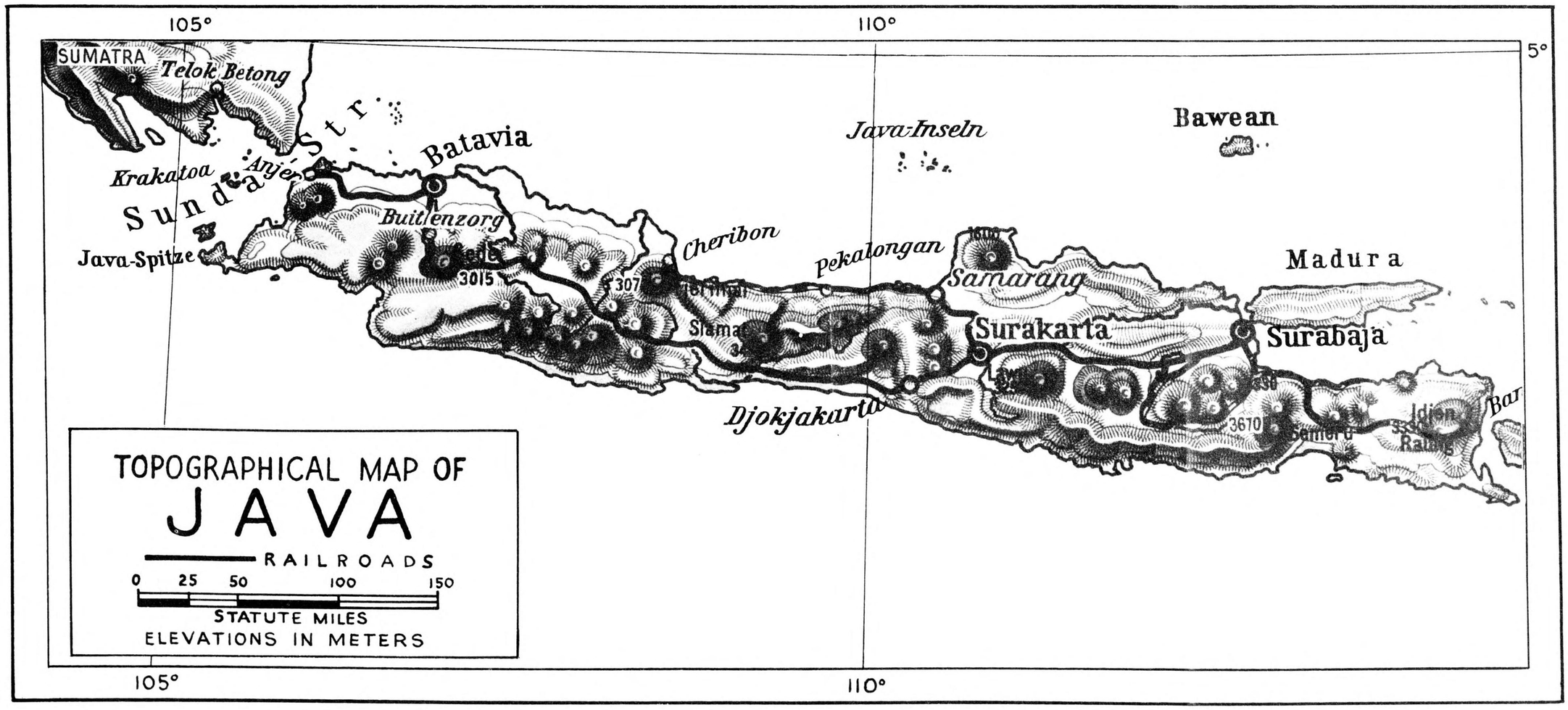
TABULATION OF TARGET INFORMATION

TARGET NO.	TARGET NAME	APPROXIMATE COORDINATES	DESCRIPTION AND SIGNIFICANCE	TARGET CHART NO.
	RAILROAD TRANSPORTATION			
171	Semarang Railroad Center	06° 57′ S 110° 25′ E	Jc of two RR lines of different gauges. See map on page M-6.	148
172	State RR Workshops, Manggarai	06° 13′ S 106° 51′ E	S of Batavia. Repairs, rebuilds all kinds RR equipment. Foundry, electric furnaces, machine tools. See maps on pages M-2 & M-10.	166
173	State RR Workshops, Madiun	07° 40′ S 111° 30′ E	Repairs, rebuilds steam locomotives. Well equipped.	173
174	State RR Workshops, Goebeng	07° 16′ S 112° 45′ E	Repairs freight cars. See photo W on page P-12 and maps on page M-7.	174
175	RR Sta and Repair Shops, Bandung	06° 55′ S 107° 36′ E	Near center of town; yds are just N of Sta. See photo K on page P-6 and maps on page M-4.	159
176	RR Station & Yards, Batavia	06° 08′ S 106° 49′ E	Large, prominent bank bldg directly W of Sta; yds NE of Sta. See photo B on page P-1 and maps on page M-2.	166
177	Tandjong Priok RR Station	06° 06′ S 106° 53′ E	Sta and yds just S of Tandjong Priok Harbor. See photo E on page P-3 and maps on pages M-2 and M-3.	177
178	Surabaya Town RR Station	07° 15′ S 112° 45′ E	S part of town, between Kali Mas Canal & Surabaya R. See photo V on page P-11 and maps on page M-7.	174
179	Surabaya RR Yards	07° 12′ S 112° 44′ E	Extensive RR yds S of harbor, W of Kali Mas Canal. See maps on page M-7.	174
180	Cheribon RR Yards	06° 42′ S 108° 33′ E	Jc Batavia-Surabaya coastal, and Cheribon-Tjilatjap, lines. See map on page M-5.	147
181	Tjilatjap RR Station and Yards	07° 44′ S 109° 00′ E	Southern terminus of Javan RR system. About 1 mi E of town. See map on page M-6.	149
196	Wonokromo RR Station and Bridge	07° 18′ S 112° 45′ E	At jc of Surabaya R and Wonokromo Canal, just W of demolished Shell Oil Refinery. See photoY on page P-13 and maps on page M-7.	174

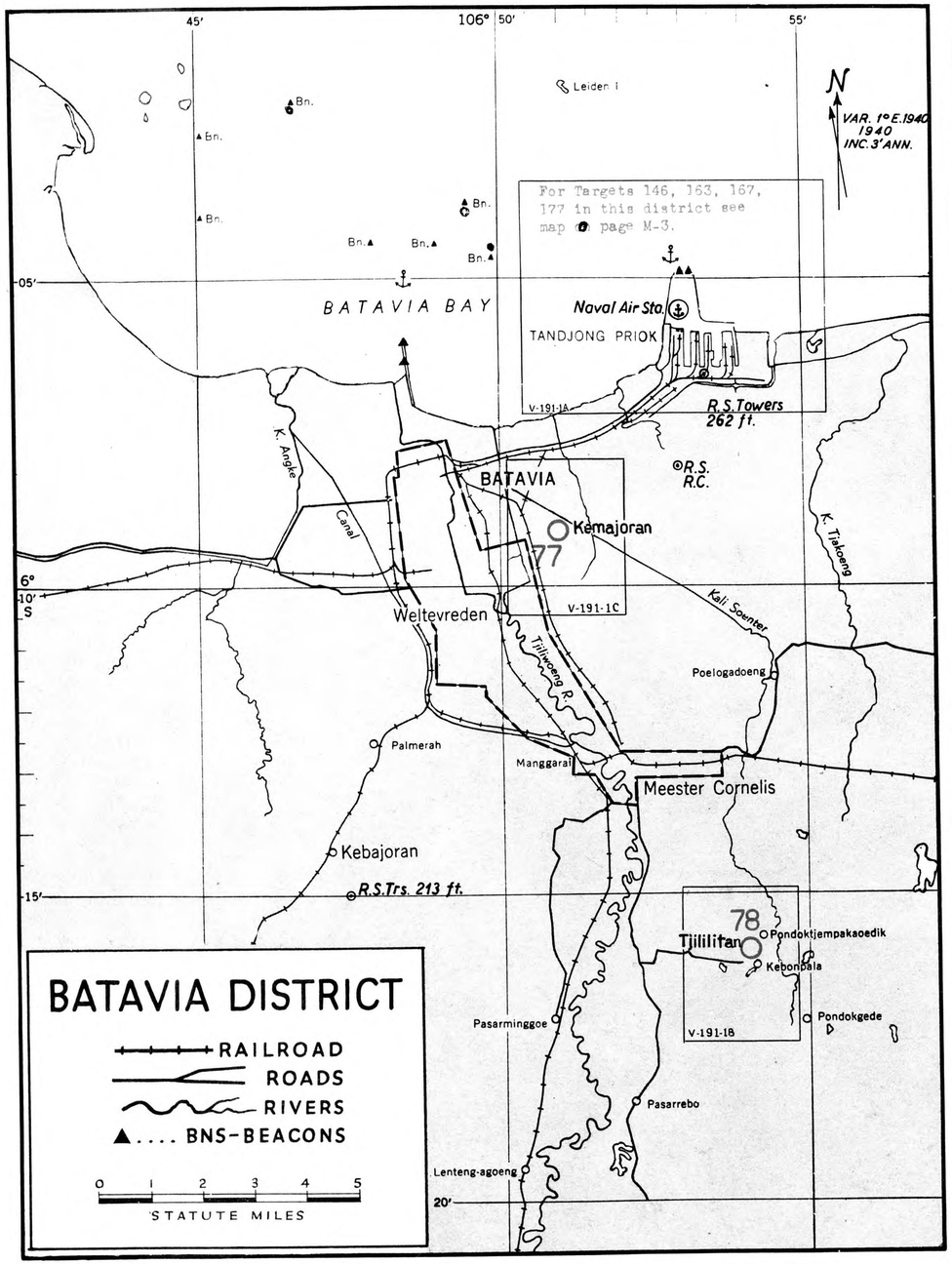
. . . concluded

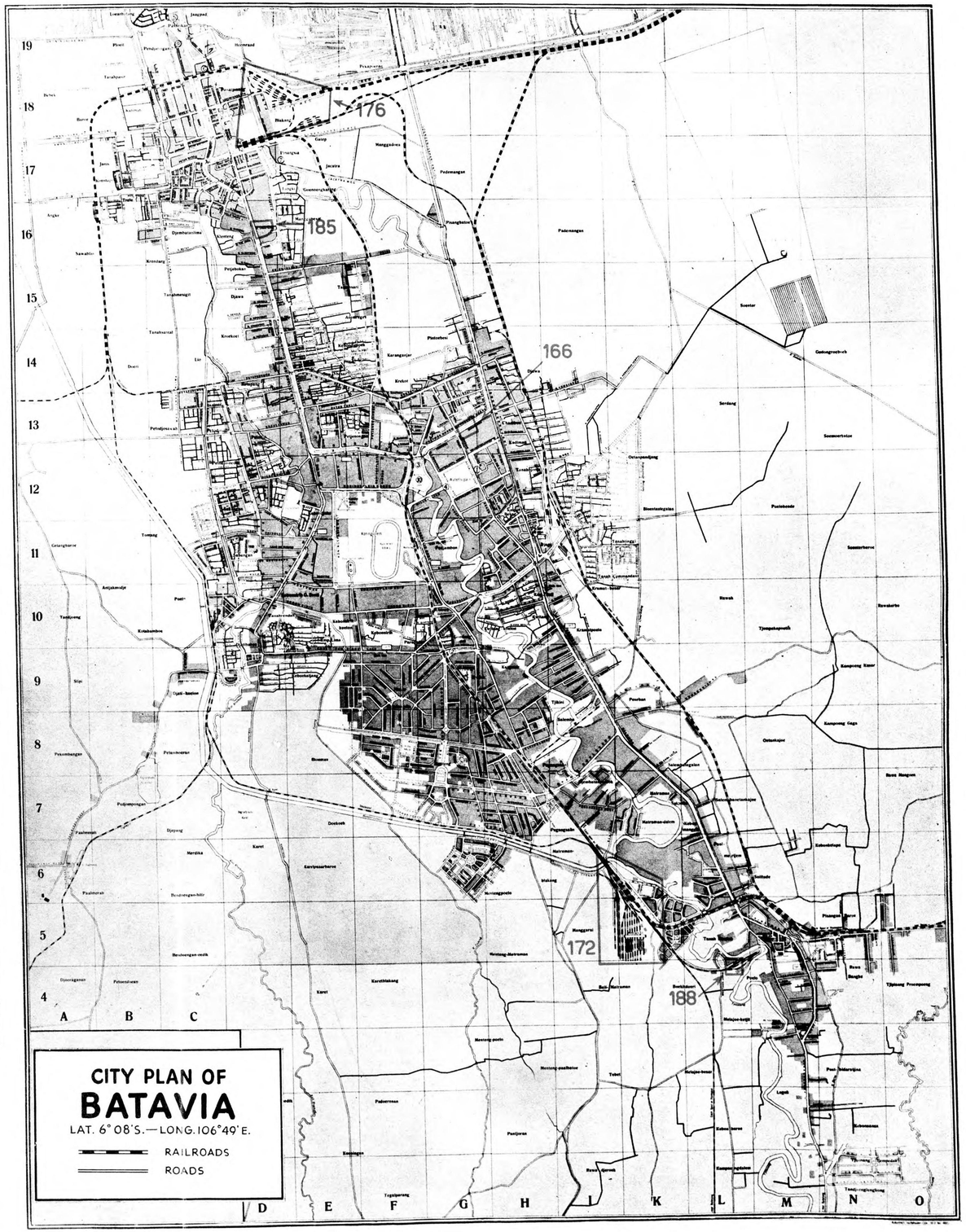
3531—T-9—Java—11-17-42—Final Proof


PHILIPPINES, EAST INDIES,
AND
SOUTHEASTERN ASIA
KEY TO OBJECTIVE AREAS
N
CHINA
BURMA
INDO CHINA NORTH (85.1)
THAILAND NORTH (98.1)
BANGKOK (98.2)
INDO CHINA SOUTH (85.2)
THAILAND SOUTH (98.3)
MALAY STATES NORTH (92.1)
SINGAPORE (92.2)
SUMATRA NORTH (94.1)
SUMATRA SOUTH (94.2)
BORNEO NORTH (81.1)
BORNEO SOUTH (94.4)
JAVA (94.3)
CELEBES-TIMOR (94.5)
NEW GUINEA WEST (94.6)
NEW GUINEA NORTHEAST (79.1)
PAPUA (79.2)
SOLOMON ISLANDS (79.3)
PHILIPPINES NORTH (96.1)
PHILIPPINES SOUTH (96.2)
SOUTH CHINA SEA
PACIFIC OCEAN
INDIAN OCEAN
CORAL SEA
AUSTRALIA
JAVA SEA
BANDA SEA
ARAFURA SEA
Timor Sea
Celebes Sea
Hanoi
Rangoon
Bangkok
Saigon
Singapore
Brunei
Kuching
Bandjermasin
Makassar
Batavia
Soerabaja
Jogjakarta
Dili
Darwin
Port Moresby
Manila
Vigan
Jesselton
Sandakan
Merauke
Broome
Cooktown
Karumba
Gordonvale
Townsville
Canton
Hong Kong
Foochow
Swatow
Taihoku
Tourane
Rajburi
Songkla
Kuantan
Medan
Padang
Palembang
Bangka
Billiton
Banka Str.
Malacca Str.
Lombok Str.
Sunda Str.
Luzon Str.
Formosa Str.
Mindanao
Cagayan
Parang
Davao
Celebes
Halmahera
Aroe Islands
Aitape
Lae
Morobe
Abau
Bougainville
New Britain
New Ireland
Guam
Yamdena
Melville Island
Gulf of Carpentaria


105°
110°
5°
SUMATRA
Telok Betong
Krakatoa
Anjer
Sunda Str.
Batavia
Java-Inseln
Bawean
Buitenzorg
Java-Spitze
Cheribon
Pekalongan
Samarang
Madura
Surakarta
Surabaja
Djokjakarta
3015
307
1600
3670
TOPOGRAPHICAL MAP OF
JAVA
RAILROADS
0 25 50 100 150
STATUTE MILES
ELEVATIONS IN METERS

M-1





3551M—M-2—Java

PORT TANDJONG PRIOK

LAT 6° 10'S.— LONG. 106° 50'E.

RAILROADS ═══ ROADS

△----- { B — OIL BUNKERING FACILITIES
T — OIL STORAGE

■-- COAL STOCKS ⊕ — W/T STATIONS

0 100 500 1000
YARDS

106° 53'E.

JAVA SEA

N (True)

OUTER HARBOUR

Western Breakwater

Eastern Breakwater

Projected new Breakwater

Tandjong Priok Dry Dock Co's. Works

Floating Dock

Naval Hospital

Naval Shipbuilding Base

Harbour Master's Office

Jetty

Petroleum Wharf

Coal Wharf for N.I.S.M.

Coal Wharf for State Railways

Harbour Workshops

Petroleum Tanks

Radiation Hospital

Quarantine Station

Western Canal

Rifle Range

Petroleum Store

Tidmarsh Canal

Lighter and Barge Harbour

Projected Port extensions

Space reserved for industry, with connection for seagoing vessels

Water area reserved for Aviation purposes

No 1 BASIN

No 2 BASIN

No 3 BASIN

Borneo Canal

Kodjo Canal

Celebes Weg

Cheribon Weg

Bandjir Weg

Bonneo Weg

Oil pipe line

Central Market

Fish Store

Djambi Weg

Djambi Brug

Nias Weg

Djambi Kade

Duimbang Weg

Zuider Weg

Gang Weg

Lampung Weg

Lagoa Weg

Waterworks

Douane

Commercial Quarters and Offices

Wonoyk

Pedjompongan

Square

Strand Avenue

Fishing Harbour

Fish Market

Allotted only for a few Fisher-huts

New Cemetery

To Tjilintjing

To Batavia

Steenard Oil Company

Railway Station

Railway Workshops

Railway Goods Shed

European Dwellings

Proposed boundary for elevated Industrial Quarters

146

163

167

177

6° 6' S.

106° 53'E.

KALIDJATI

RAILROAD
ROADS
RIVERS

0 1 2 3 4 5
STATUTE MILES

107° 35' 40' 45'

40'

25'

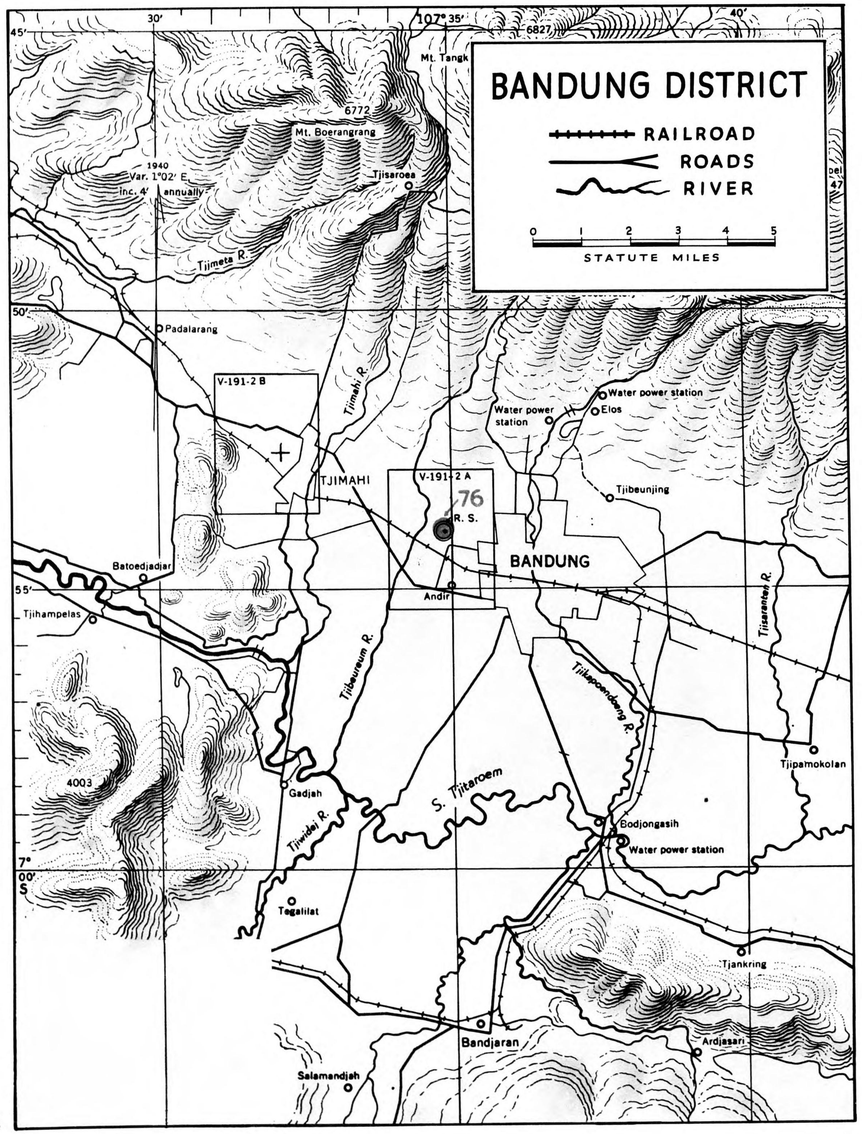
30'

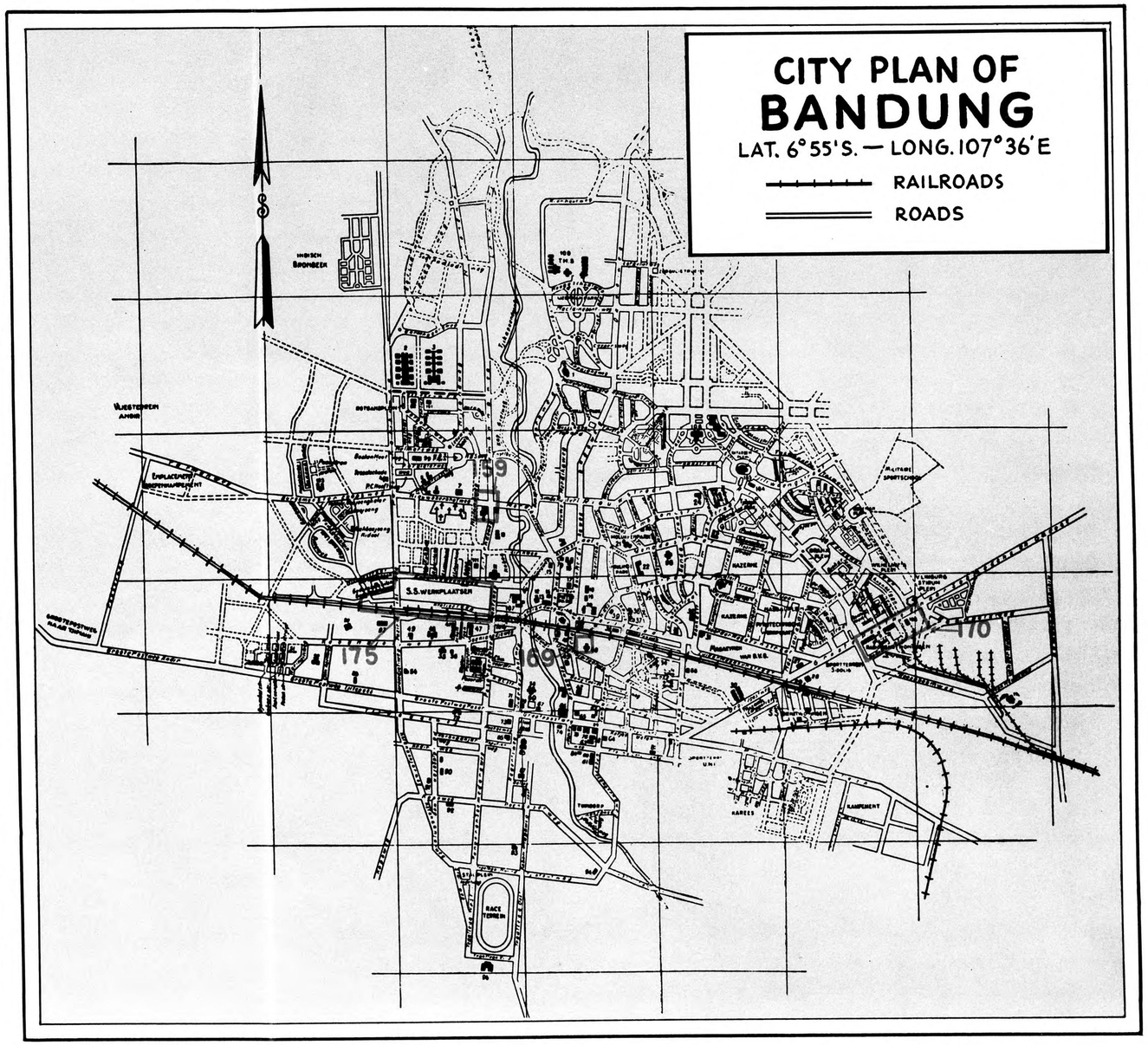
35'

6° S.

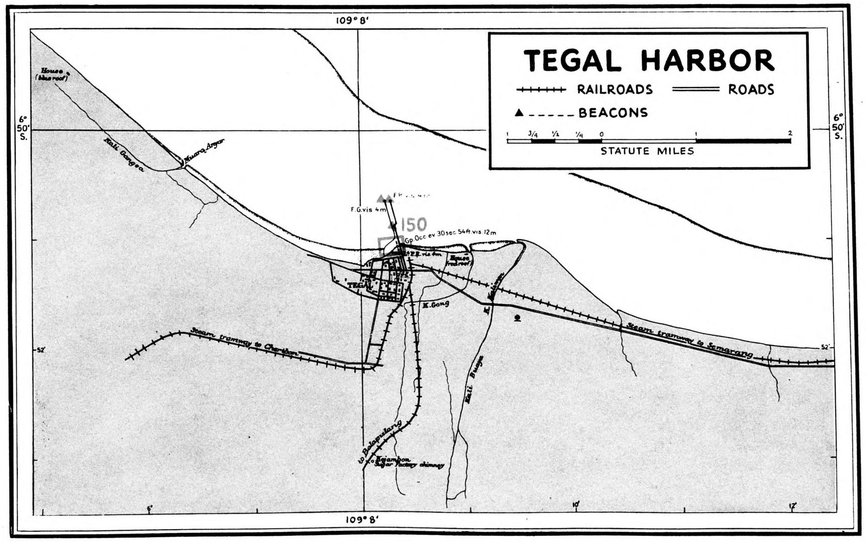
Djatiragas Hilir
Tjiberes
Babakanboewer
Paboeran
Silceman
Pringkasap
Pantjabango
Boegel
Tandjoengsari
Pasirboengoer
Tjiboengoer
Gambirsari
Poerwadadi
Tjimanila
Tjibeunjing
Poerasari
Kaliangsana
Kawaoenganten
Tjipeundeuj
Tjidjoged
Tjipanandoer
V-191-3A
KALIDJATI
84
Bangas
Selaawi
1940 Var. 1° 05' E inc. 4' annually
SOEBANG
Nimpiteng
Pakapoeran
Tjikoresak
Mt. Pasadeerjan 2110
Mt. Pasirkeedjang 2158
Tjiratjas
Tjidjengkol
SAGALAHERANG
Bonmajoe

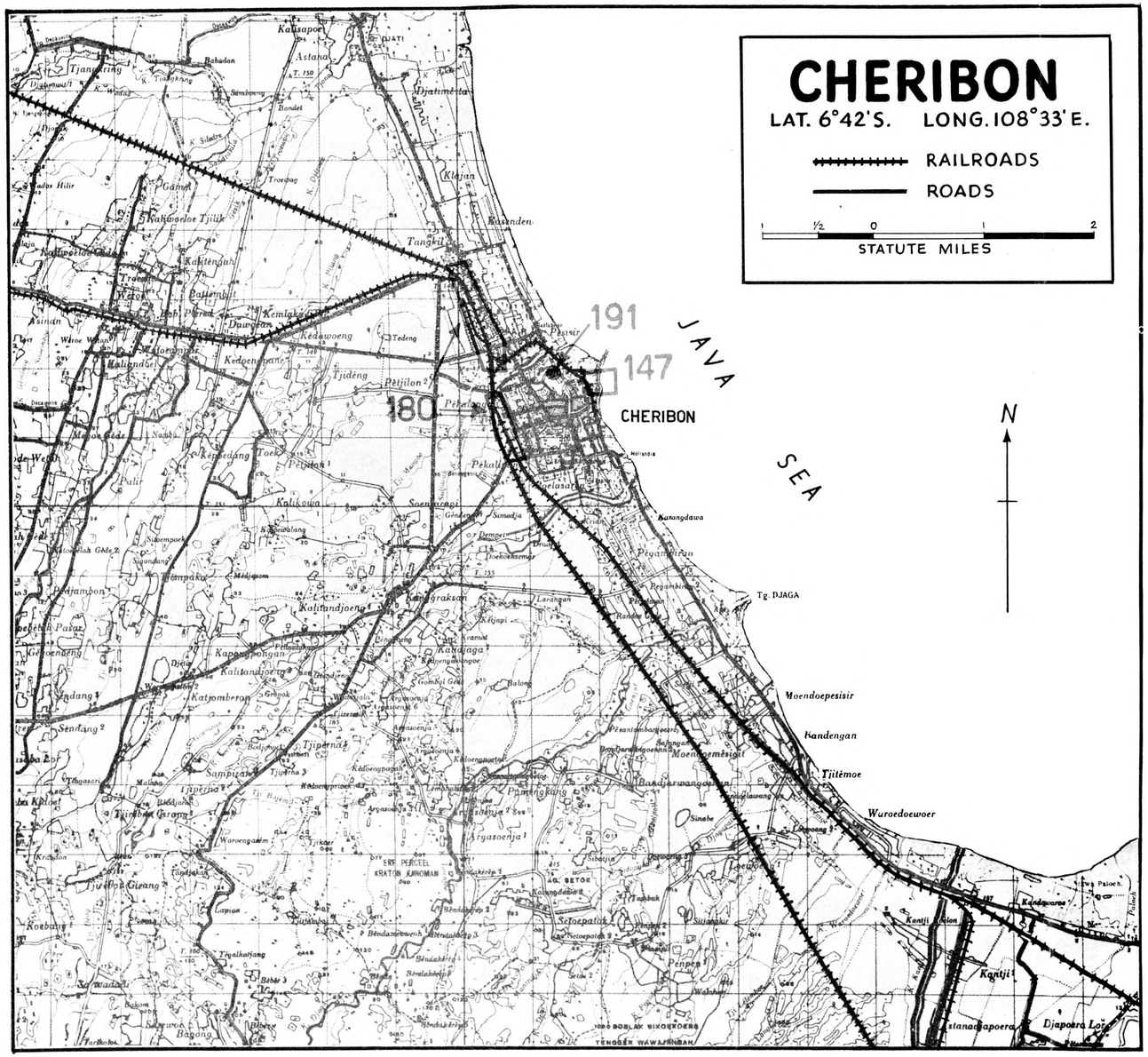
353(M)—M-3—Java





3531M—M-4—Java





M-5

3531M—M-5—Java

SEMARANG

LATITUDE-06°57'S... LONGITUDE-110°25'EAST

RAILROADS
ROADS

1000 YDS. 500 0 1 2
STATUTE MILES

N

LIGHT HOUSE 148

182

SEMARANG

Correctie 23.0

109°

TJILATJAP

▲...BEACONS
RAILROADS
ROADS

¾ ½ ¼ 0 1
STATUTE MILES

149 192 181

TJILATJAP

NUSA KAMBANGAN

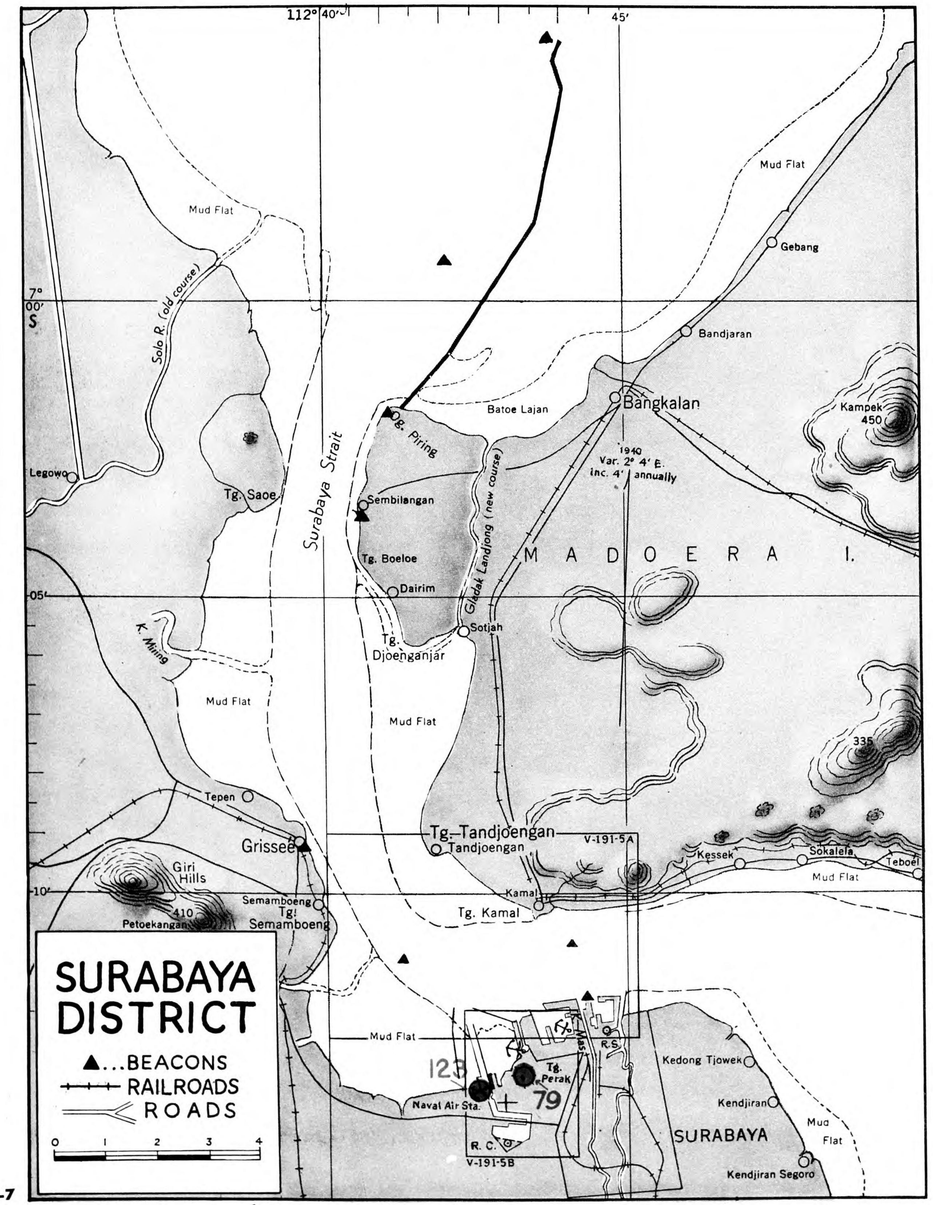
7° 45' S

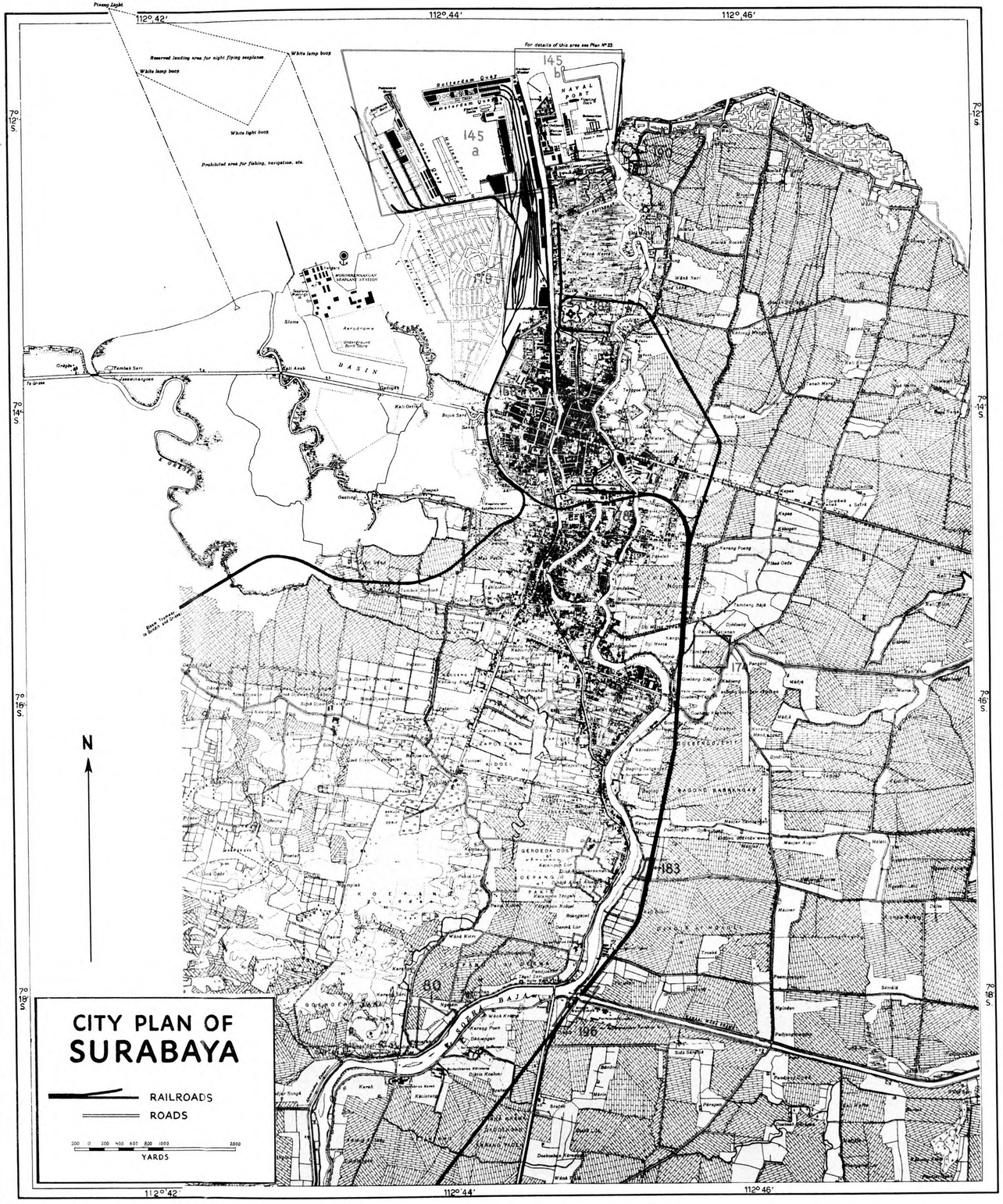
VARIATION 1° 10' E (1950) INCREASING ANNUALLY

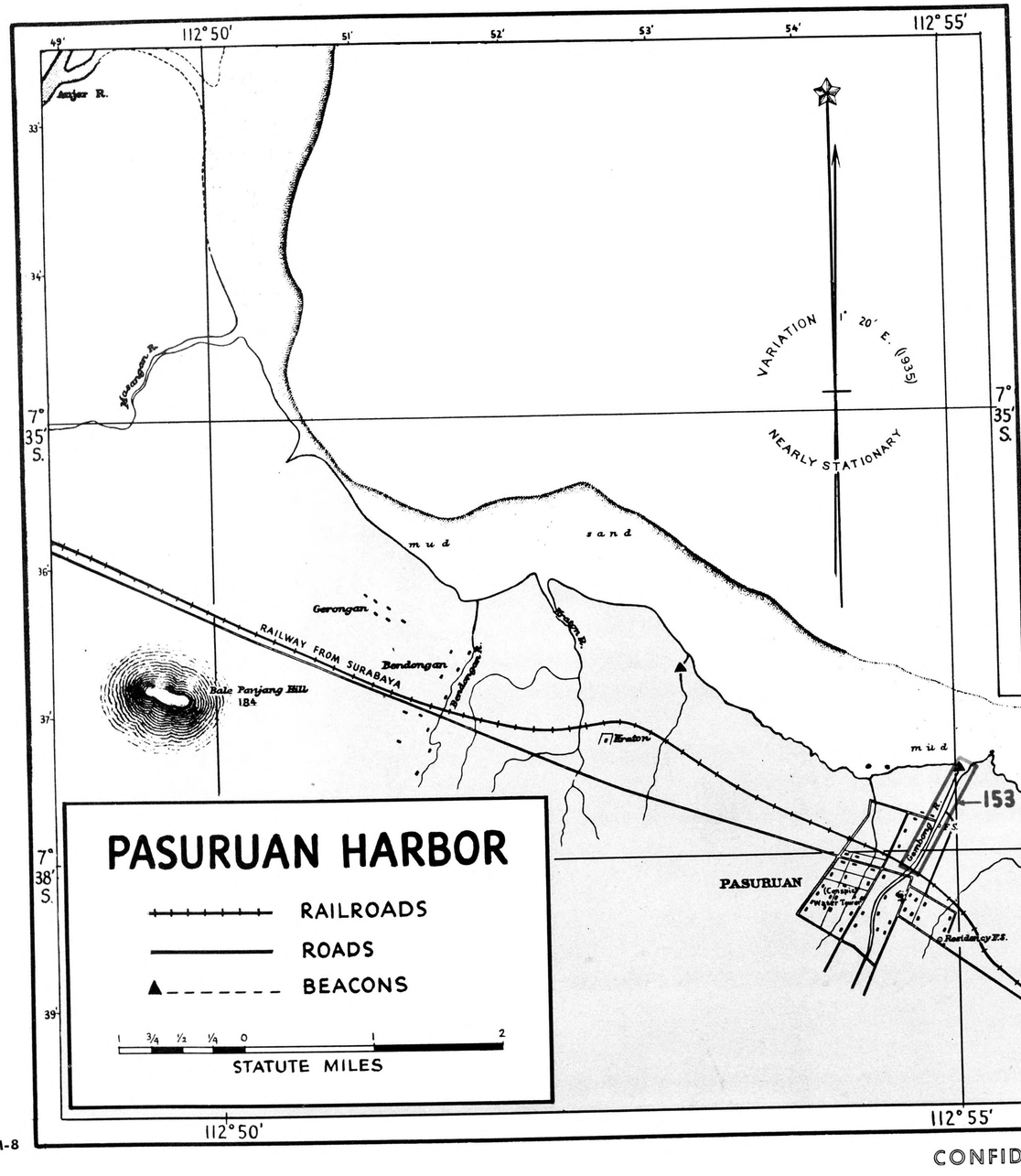
109°

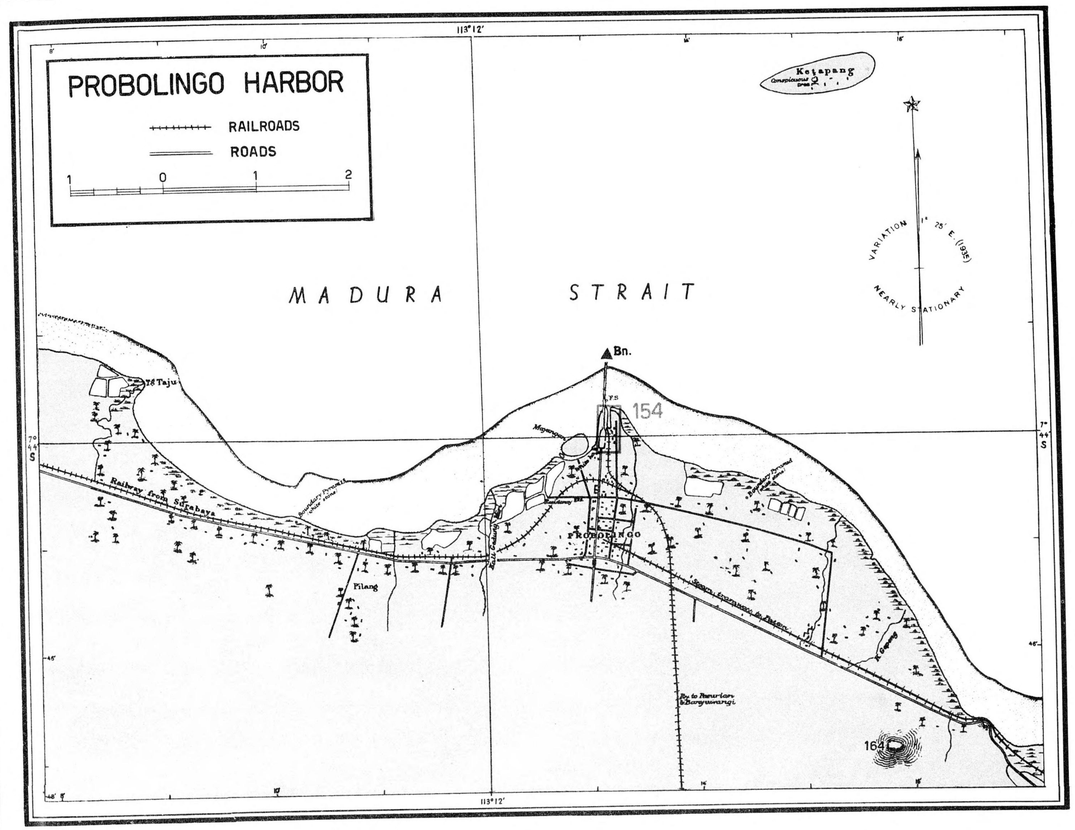
M-6

3531M—M-6—Java

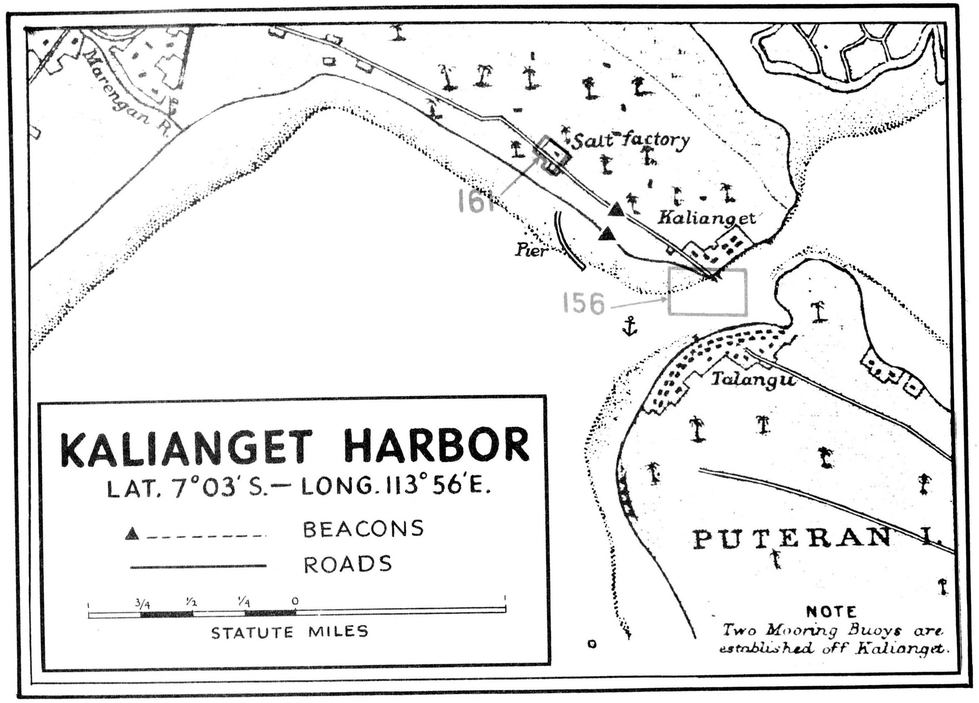


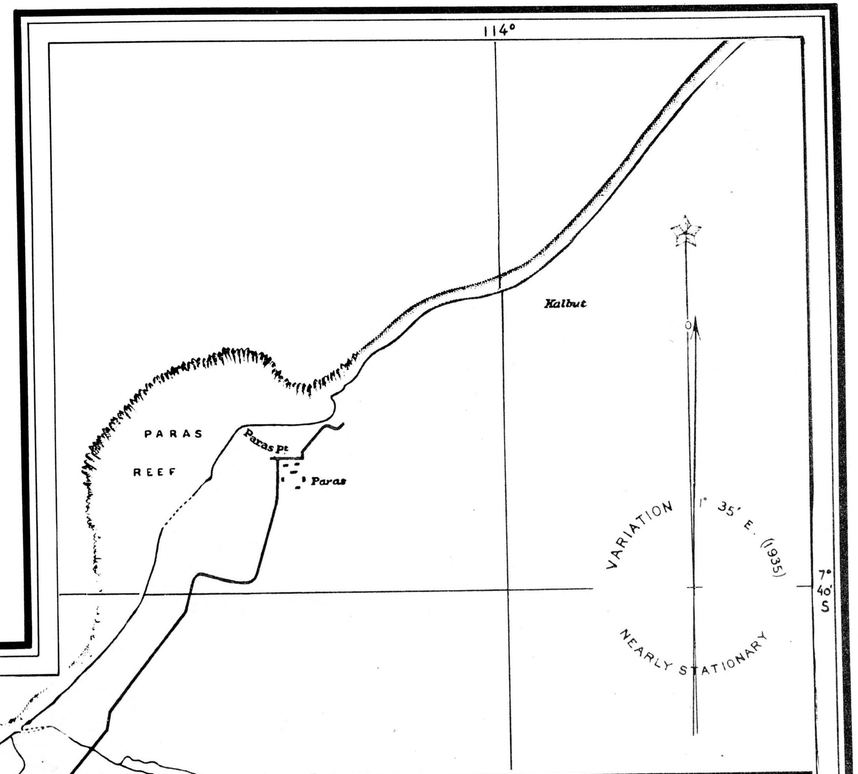

Pisang Light
112° 42'
112° 44'
112° 46'
7° 12' S
7° 14' S
7° 16' S
7° 18' S
7° 20' S
Reserved landing area for night flying seaplanes
White lamp buoy
White lamp buoy
White light buoy
Prohibited area for fishing, navigation, etc.
For details of this area see Plan N° 23
145 b
145 a
NAVAL DOCK
Rotterdam Quay
Amsterdam Quay
Oceanic Quay
Madagascar Quay
Merauke River
Pelindo
Harbour Master
Fuel Jetty
Fuel Depot
Fuel Depot
Fuel Depot

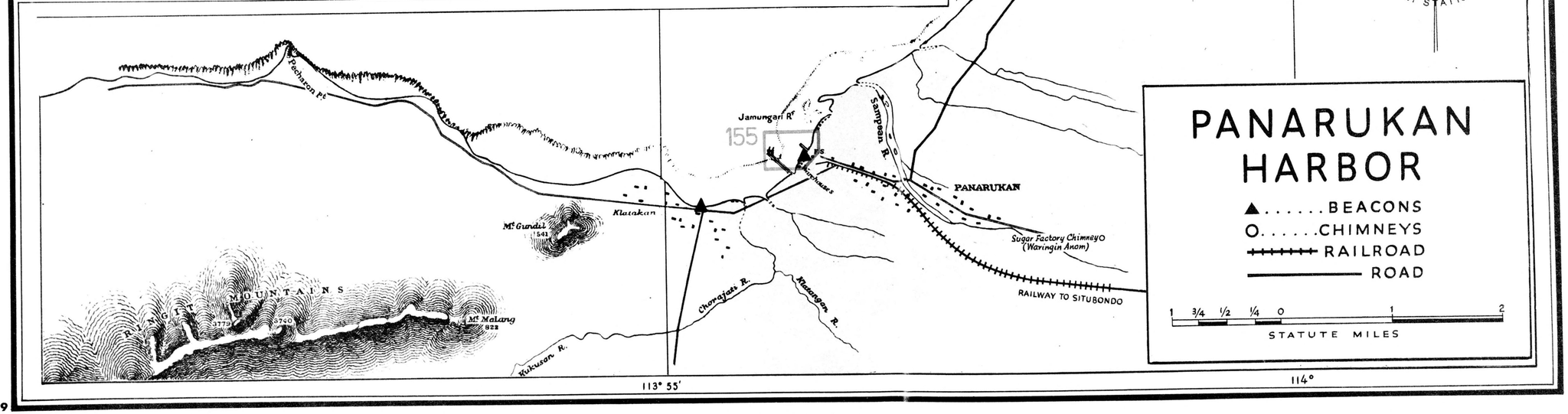




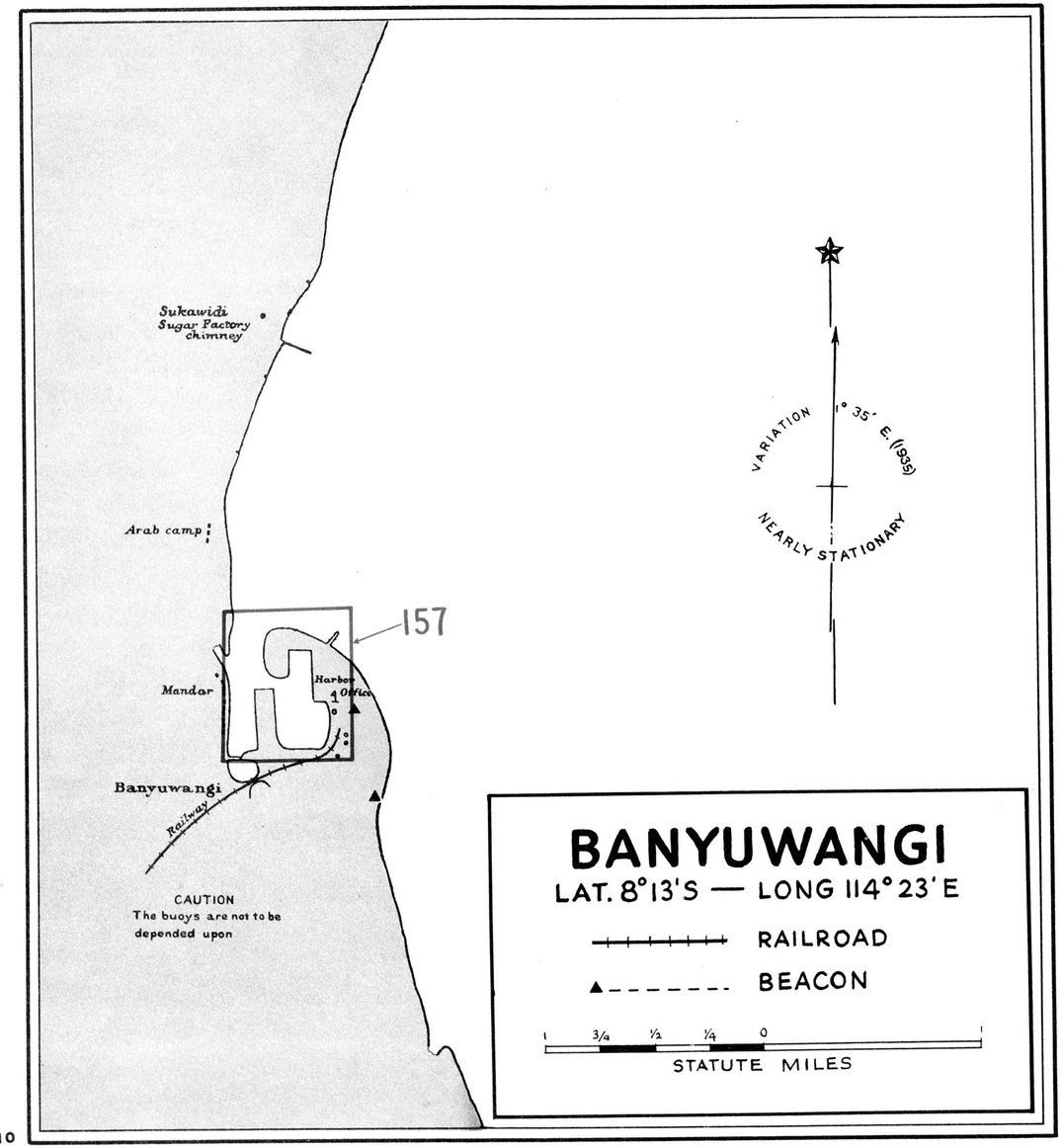
3531M—M 8—Java







3531 M—M-9—Java



3531M—M-10—Java