## D. GEST OF PHOTO-INTELLIGENCE PREPARATORY TO AND DURING THE OPERATION

# 別USKY"

10 JULY 1943

BY THE

PHOTOGRAPHIC INTERPRETATION UNIT M-2 9-2 SECTION

AMPHIBIOUS FORCE ATLANTIC FLERT

CONFIDENTIAL

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#### INTRODUCTION

This book presents examples of typical natural and manmade features of the coast of southern Sicily as they appear both from the air and from the ground. It is intended primarily for the use of photo-interpreters who may be engaged in preparation for future amphibious operations.

It is designed to serve the following purposes:

- 1. Presenting examples of beach, road and airport defenses used by Germans and Italians.
- 2. Analyzing typical features of beaches, vegetation and terrain in the Mediterranean Area.
- 3. Acquainting the reader with the scope and accuracy of photographic intelligence.

The book is divided into three parts. The annotated mosaics comprising the first section are copies of 20" x 24" mosaics which were distributed to army and navy commands prior to Operation HUSKY. The second section of the book is made up of photographs on which are indicated the results of both aerial and ground observations over the area. The third section is a collection of vertical photographs of installations which have not been so confirmed, but which are particularly clear examples of Axis military practice.

Vertical photographs appearing in this book are copies of operational pictures used for interpretation before and during the operation. They were selected from sorties flown by the RAF and AAF. Where photographs appear side by side on the same page they are intended for study by pocket stereoscopes. Ground photographs used were taken by Amphibious Force staff photographers.

A. G. KIRK,

Rear Admiral, U. S. Navy,

Commander Amphibious Force, Atlantic Fleet.

ANNOTATED MOSAICS

SOUTHERN SICILY

Cent Area

Beaches and Adjacent Airfields

29 June 1943

Date of Latest Information Available at Time of Release; 14 June 1943

That portion of the South coast of Sicily shown on the accompaning musaics is situated on an alluvial plain and is characterized by a definite sequence of

meters of the coastline. They are listed below in the order of their normal occurrence from the coast inland. Due to the variations in soil fertility, however, this order order may be found to be altered or incomplete in certain locations,

Smooth Sandy Beaches;
 All of the many beaches shown in the mosaics are composed of

Sand Dunes;
 These dunes, which are frequently quite rough, usually lie just inland from the smooth sandy beaches and are also scattered along

and narrow. This type is characterized by the semi-desert type of and narrow. In stype is characterized by the semi-desert type of plants much like those found in the Southwestern parts of the United States. The growth is low, averaging about 5 feet, is tough, and frequently of the form of plant bearing needles or thorns which obstruct foot movement, particularly if dense, Trails are visible from the air winding through this type, of all the vegetative types encountered while progressing inland from the beaches, this scrub

control by means of employing windbreaks of natural and cultivated vegetation to stabilize shifting sand. These controlled sand areas are found on both sand dunes and relatively level sandy fields. The plants used for windbreaks are usually native species that will grown on sand solis, are planted in rows about 20 feet apart, and they seldom reach a height in excess of eet. In some instances vineyards have been established illustrating a combined effort at crop production and sand stabilization. In general the sand is soft, the vegetation low, and only moderate to slight concealment is provided against air view, and concealment from ground observation is furnished only if the

Pasture land is very common 1-3 kilometers inland from the coast Pasture land is very common 1-3 kilometers inland from the coast. The field pattern is unually larger than that found in the cultivated sections, and the field boundaries are frequently accented by stone or rock walls about 4 feet high. It is common to see these pastures sprinkled with such trees as galas, chestants, and mature office trees are fined as a section of the section

THE CENT AREA





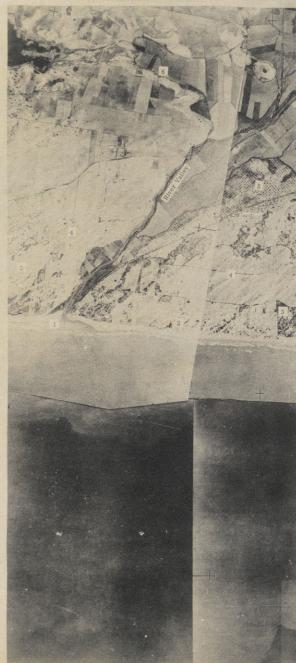








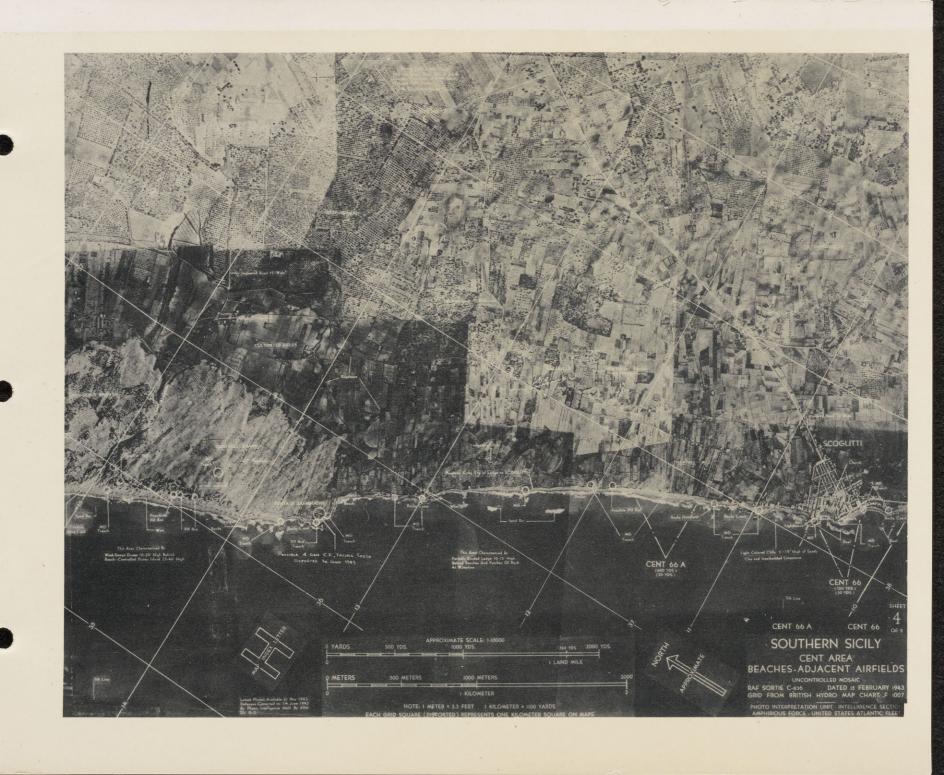
Typical Strip From Coast Inland

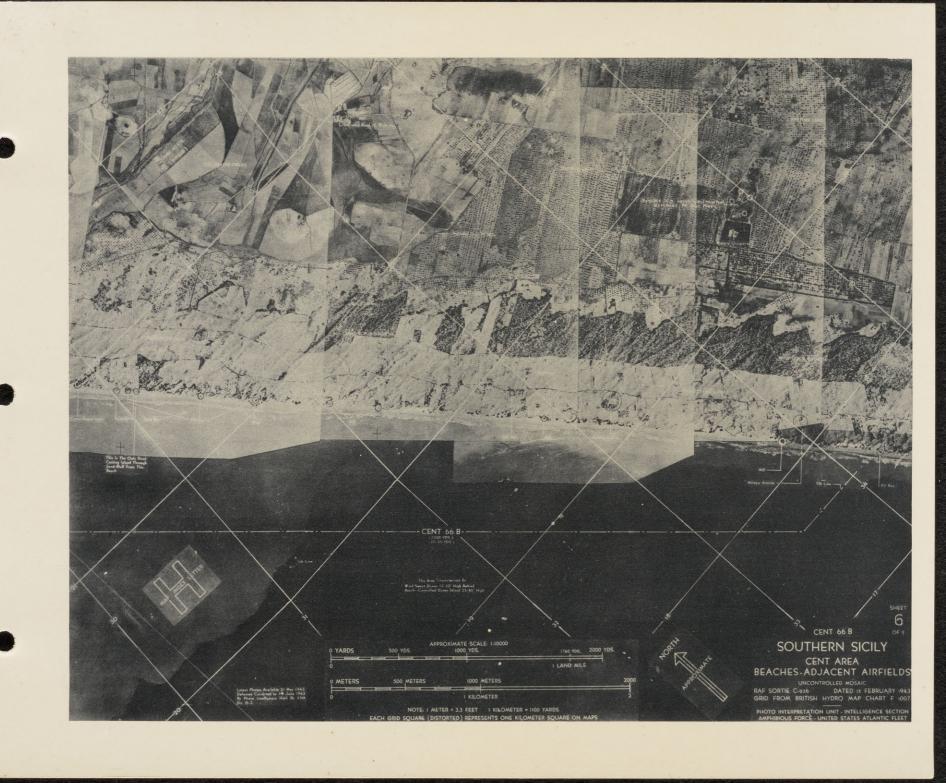




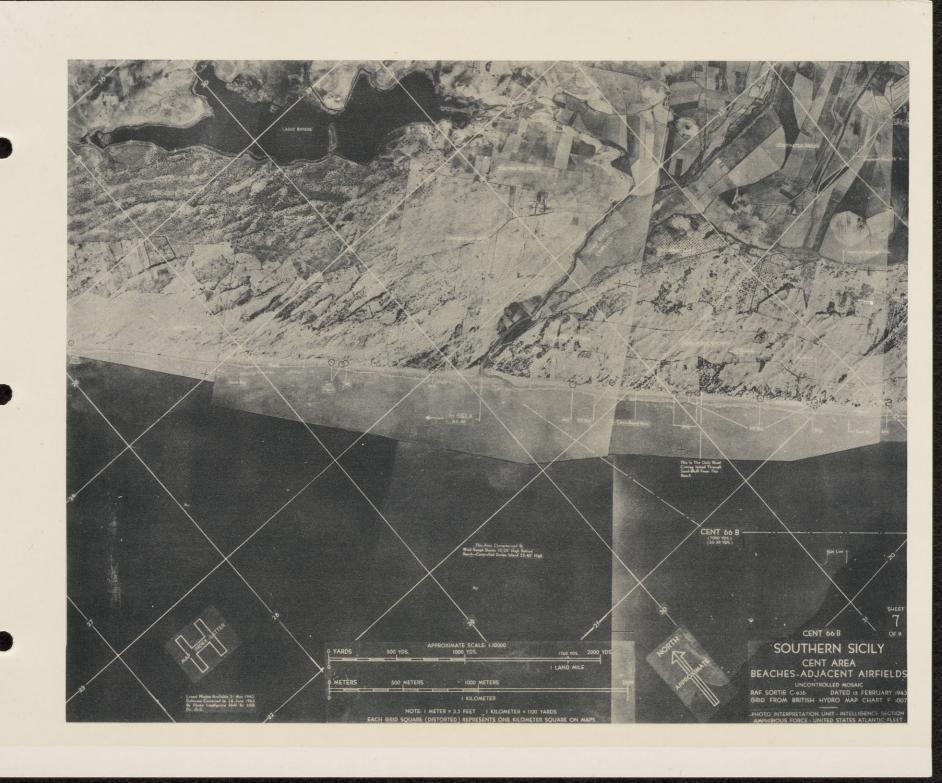


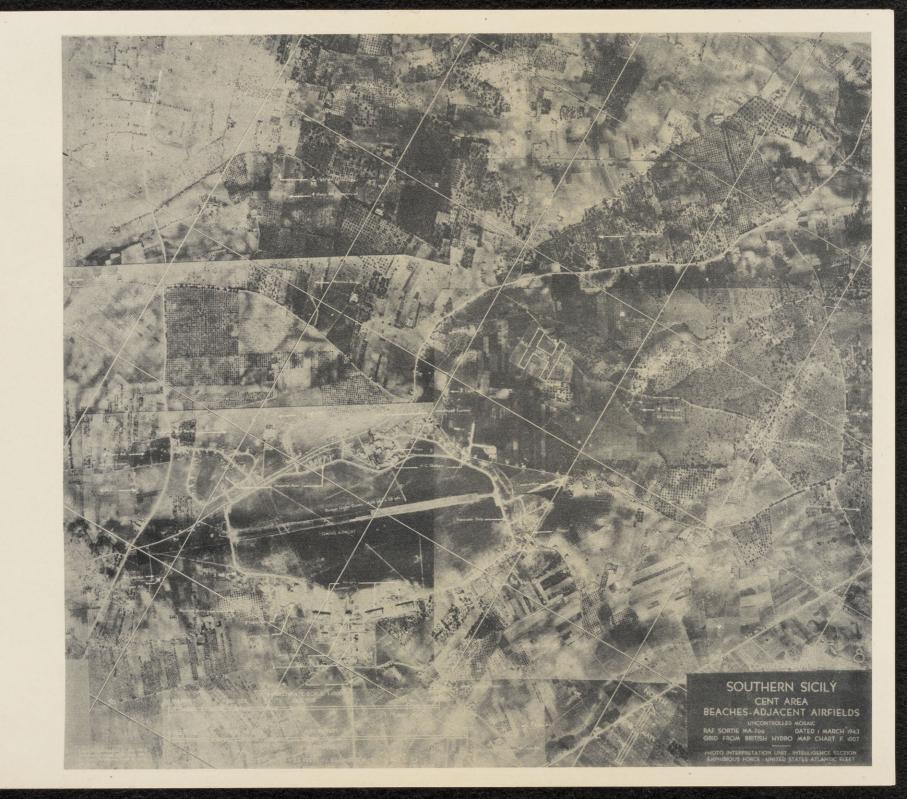


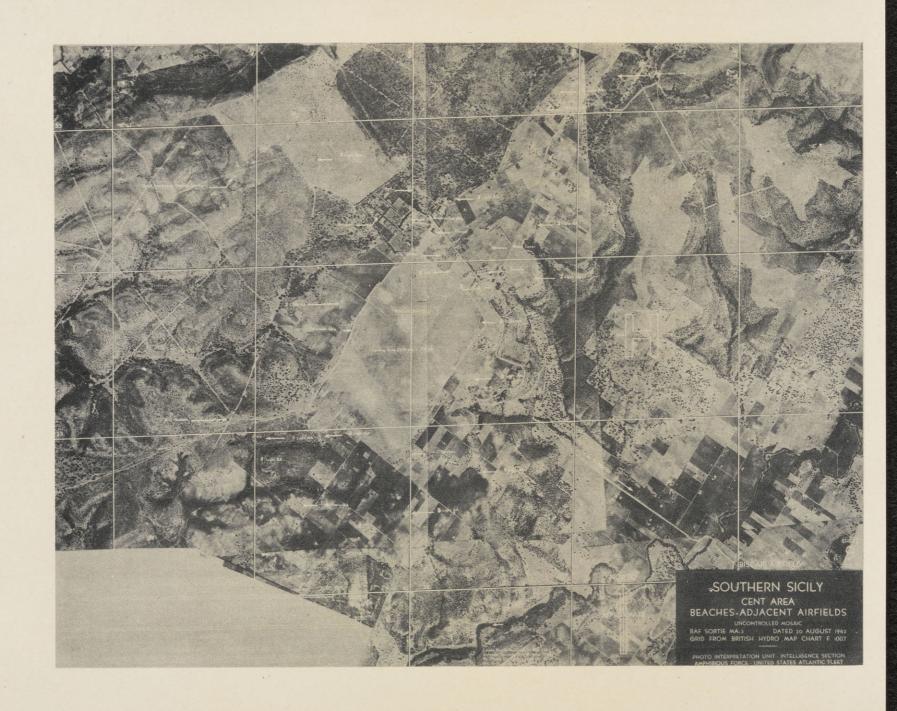












CONFIRMED INFORMATION

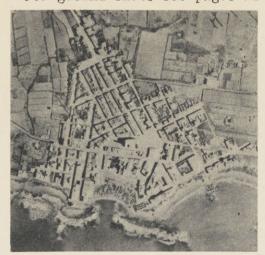
INFORMATION CONFIRMED BY GROUND SHOTS OR BY

GROUND OBSERVATIONS.

DEFENSES



MACHINE GUNS: MG positions along water-front at Scoglitti. For ground shots see pages 12 and 13.

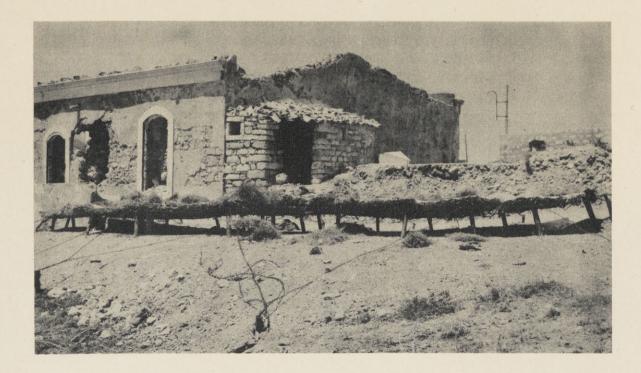




DEFENSES



MACHINE GUNS: Example of a camouflaged trench and machine gun position located in front of roofless building on south side of cove at Scoglitti. For vertical view, see page 11.





MACHINE GUNS: Slit trench and a camouflaged machine gun position located on beach at southwest corner of Scoglitti. For vertical view and diagrams, see pages 11 and 16 respectively.



 $\underline{\text{MACHINE GUNS:}}$  Utilization on an existing embrasure in a cellar  $\overline{\text{In Scoglitt1}}.$  For location in sea-wall, see page 11.

DEFENSES



MACHINE GUNS: MG position south of Scoglitti. For ground shots see page 15.

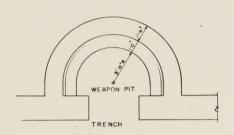




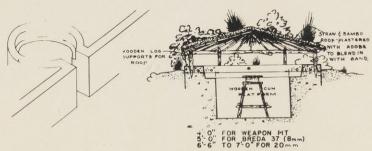


MACHINE GUNS: A camouflaged machine gun position with slit trench. For vertical view see page 14.





"PLAN"

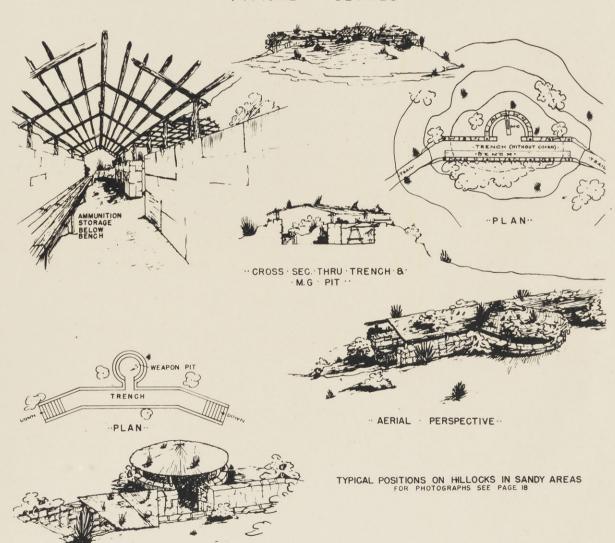


-OBLIQUE

·· CROSS · SECTION ··

..TYPICAL

DETAILS ...



TYPICAL POSITIONS IN FLAT COASTAL HEADLANDS

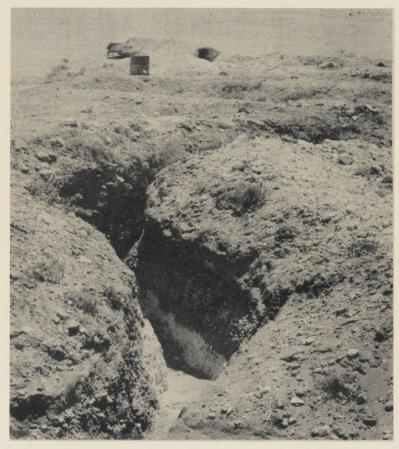
TRENCH COMPLETELY COVERED WHEN NOT IN USE

"SICILIAN"
BEACH DEFENSE.

MACHINE GUN EMPLACEMENTS



MACHINE GUNS: Two views of a camouflaged 20mm machine gun position with slit trench south of Scoglitti. For vertical view see grid reference H385100 on page 4.



DEFENSES



 $\frac{\text{MACHINE GUNS:}}{\text{overlooking the beach north of Scoglitti. For vertical view see grid reference H320207 on page 7.}$ 

NOTE: This type of camouflage was particularly effective in the sandy scrub growth areas as machine gun positions matched perfectly existing scrub covered hillocks. Prisoners-of-war stated that no special allowances or materials were furnished for camouflage of coastal defenses, but that the technique of camouflage was left to the ingenuity of individual troops.

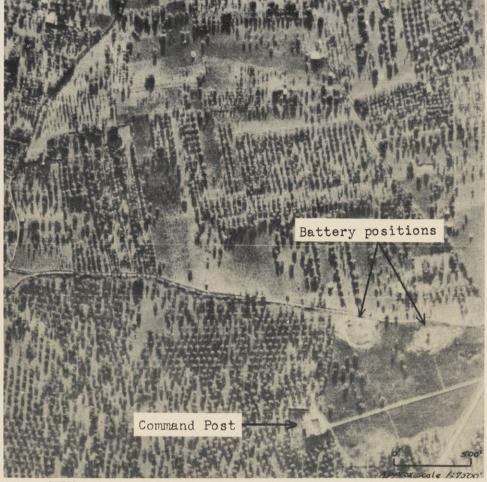
DEFENSES



75mm GUNS: 75mm Italian battery on the Scoglitti-Vittoria highway under construction as of 13 May 1943. For ground shots see pages 21 and 22.



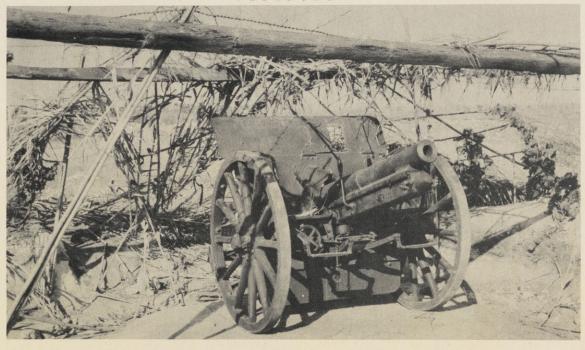




75mm GUNS: 5-gun 75mm Italian battery on Scoglitti-Vittoria highway as of 10 July 1943. For ground shots see pages 21 and 22.







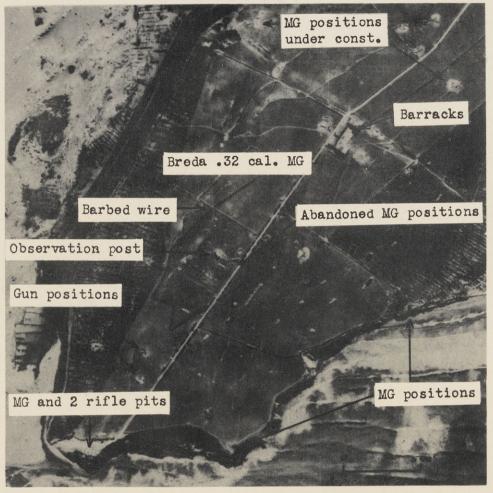
75mm GUNS: 75mm gun battery on the Scoglitti-Vittoria highway. For vertical views of battery development see pages 19 and 20.





 $\underline{75\text{mm}}$  GUNS: 75mm gun battery on the Scoglitti-Vittoria highway. For vertical views of battery development see pages 19 and 20.

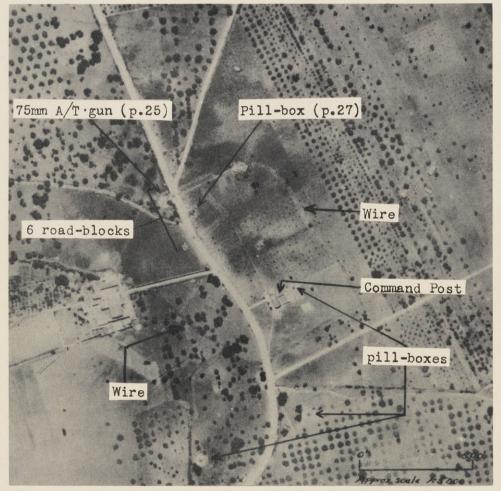




149mm HOWITZERS: 3-gun 149mm howitzer battery on Pta. della Camerina. For Vertical view see grid reference H396085 on page 4.





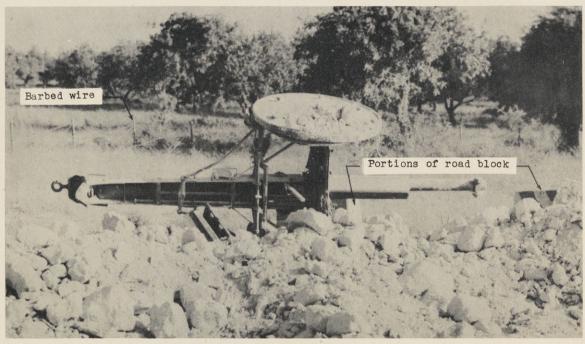


STRONG-POINTS: Strong-point on the Scoglitti-Vittoria high-way. For ground shots see pages 25 and 27.

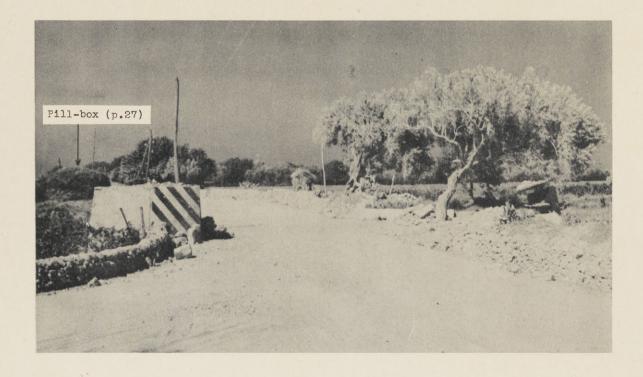


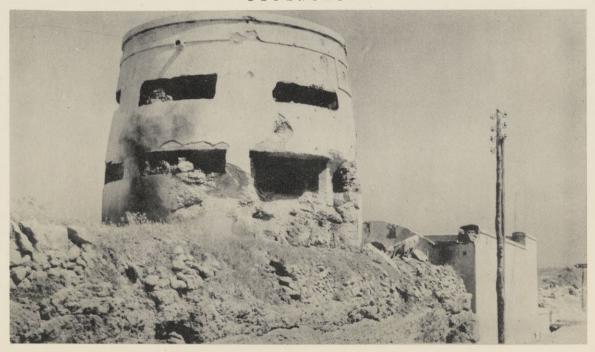


DEFENSES



ROAD BLOCKS: 75mm A/T gun destroyed by naval gun fire. The field piece is seen adjacent to a road block on the Scoglitti-Vittoria highway. For vertical view, see page 24.





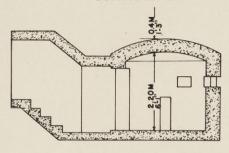
PILL-BOXES: A pill-box located on the outskirts of S. Croce Camerina.



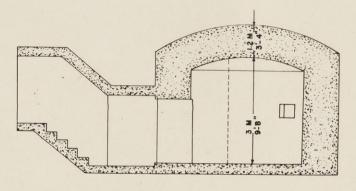
PILL-BOXES: A typical pill-box found inland. Note stone walls which are estimated to be approximately 4 feet high.



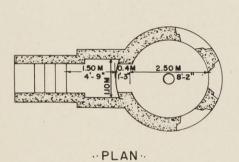
PILL-BOXES: A camouflaged pill-box adjacent to the road blocks within the strong-point on the Scoglitti-Vittoria highway. For vertical view see page 24, and for diagrams, see page 28.



·· CROSS SECTION ··



·· CROSS SECTION ··



2 M 1.2 M 3.50 M 6'-6" 3'-4" 11'-4"

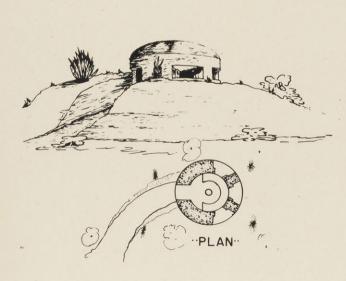
··PLAN··

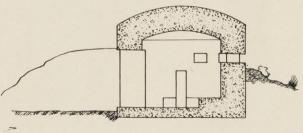
"SMALL TYPE"

"LARGE

TYPE ..

..TYPICAL PILLBOX..
P/W DOCUMENT





"CROSS SECTION"

### TYPICAL PILLBOX OBSERVED

"SIGILIAN OPERATION"

THIS INFORMATION IS COMPILED FROM REPORTS AND PHOTOGRAPHS

ENTRANCE TO PILLBOX VARIES (STEPS, TRENCH, ETC.)



BARBED WIRE: A barbed wire entanglement on beach south of Scoglitti.

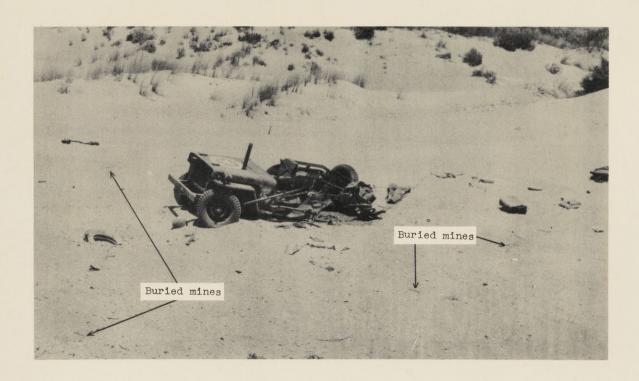


BARBED WIRE: A barbed wire enclosure on street in Scoglitti.

DEFENSES



 $\underline{\text{MINE}}$  FIELDS: Mine field north of Pta. Di Zafaglione. For vertical view, see grid reference H358151 on page 6.



AIRFIELDS



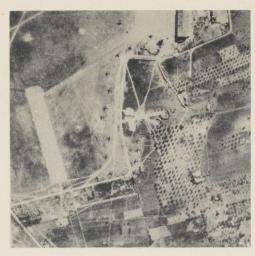
HANGARS: Hangars and administration building at the Comiso Airport. For ground shot, see page 33.







AMMUNITION DUMPS: Ammunition stored at base of orchard trees at the Comiso Airport. For ground shot, see page 33.







HANGARS: Hangars and control station at the Comiso Airport. For vertical view, see page 31.



AMMUNITION DUMPS: German bomb storage in orchard at Comiso Airport. For vertical view, see page 32.

#### COVER AND CONCEALMENT



VEGETATIVE TYPES: Numbers correspond to the vegetative types discussed on page 1.

1-----Smooth sand.
2-----Sand dunes-devoid of vegetation.
3-----Sand-Scrub growth.



# CONFIDENTIAL COVER AND CONCEALMENT





CONFIDENTIAL MISCELLANEOUS



LANDMARKS: Church and Lighthouse in Scoglitti. For ground shots, see page 37, and for obliques, see page 39.

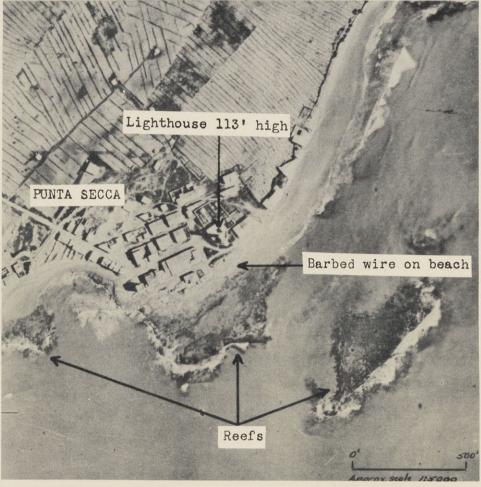






<u>LANDMARKS</u>: Views of church and lighthouse at Scoglitti. For vertical view see page 36.





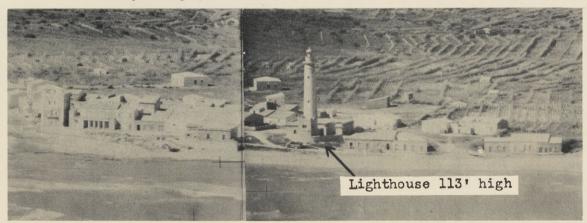
LANDMARKS: Lighthouse on Cape Scalambri. For oblique view, see page 39.







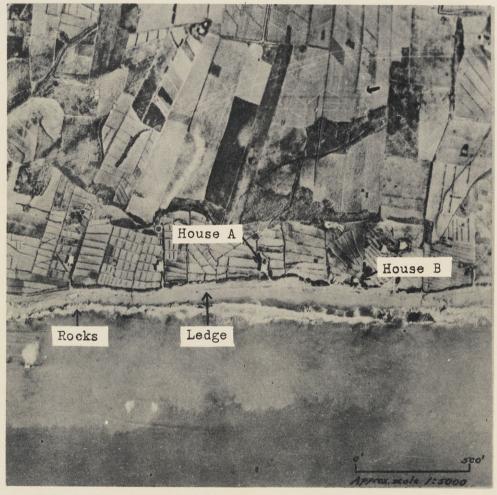
LANDMARKS: Oblique view of Scoglitti. For vertical view, see page 36.



LANDMARKS: Oblique view of Pta. Secca. For vertical view, see page 38.



LANDMARKS: Oblique view of Pta. Di Zafaglione. For vertical view see grid reference H365135 on page 6.



GENERAL VIEWS OF BEACHES: Beach north of Scoglitti. For ground shots, see page 41.



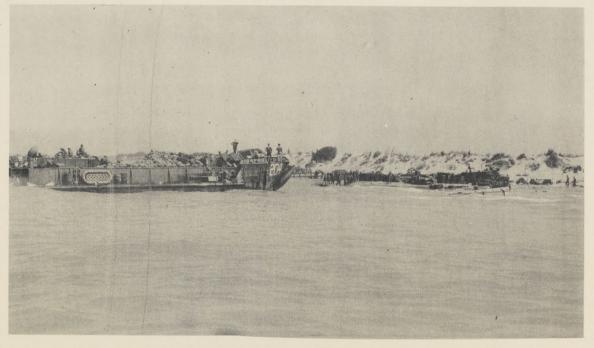




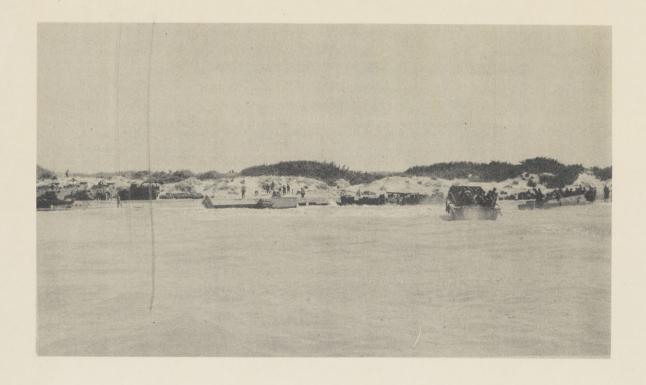
GENERAL VIEWS OF BEACHES: Views of beach north of Scoglitti. Ledge height was estimated to be between 10 and 15 feet. For vertical view between houses A and B, see page 40.

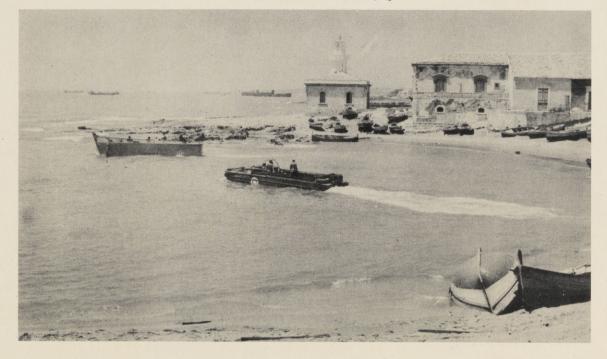


MISCELLANEOUS



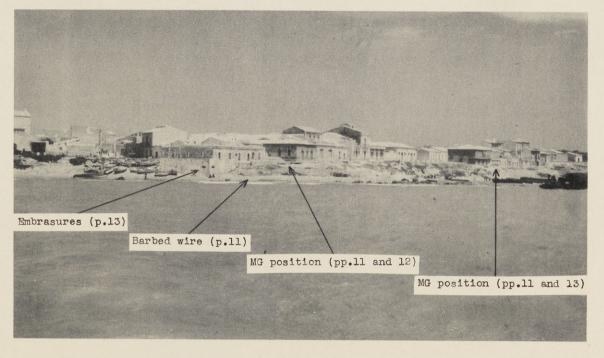
GENERAL VIEWS OF BEACHES: Typical low undutating sand dunes estimated to be between 10 and 20 feet high located north of Scoglitti. For vertical view, see page 6.



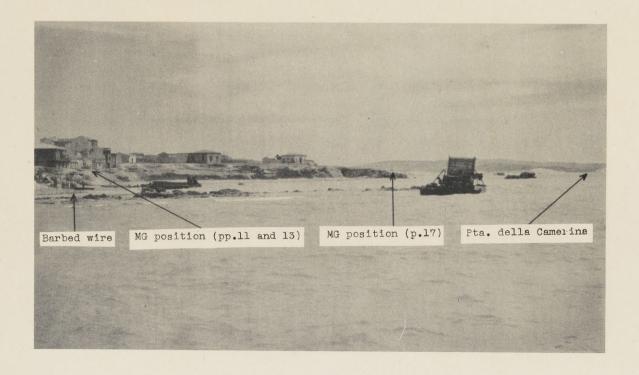


GENERAL VIEWS OF REACHES: Partial views of beach in harbor at Scoglitti. For vertical view, see page 36.





GENERAL VIEWS OF BEACHES: Partial views of beach at Scoglitti. For vertical view see page 36.



MISCELLANEOUS



GENERAL VIEWS OF BEACHES: Partial view of beach at Scoglitti. For vertical view, see page 36.

UNCONFIRMED INFORMATION

INFORMATION BELIEVED AUTHENTIC, BUT NOT CONFIRMED

BY GROUND OBSERVATIONS.

DEFENSES

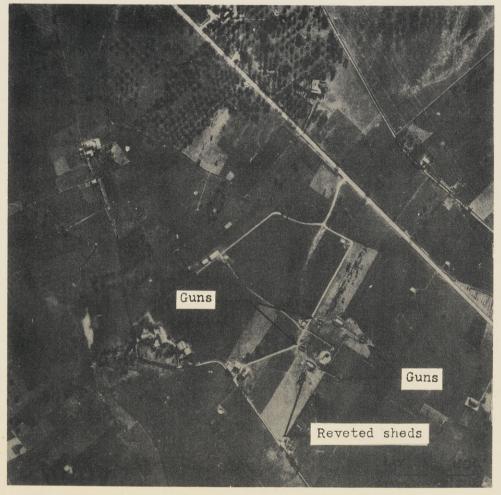


88mm GUNS: 4-gun 88mm battery at Comiso Airport. For vertical view see grid reference H525215, page 9.

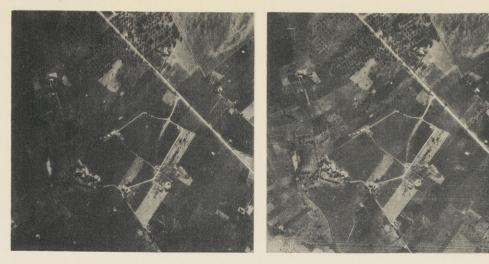




DEFENSES



75mm GUNS: 4-gun 75mm battery north of Comiso on road to airport.



DEFENSES



STRONG-POINTS: Barbed wire and machine gun positions on beach east of Pozzallo.





DEFENSES



STRONG-POINTS: A strong-point near Gela.

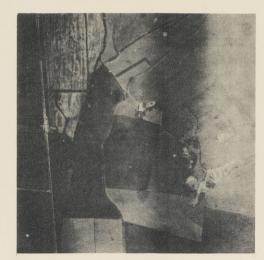


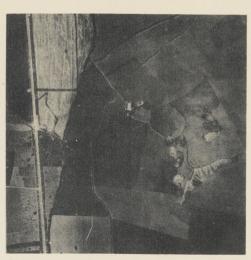


DEFENSES



ROAD-BLOCKS: Double road-block on highway to Gela.





DEFENSES



INFANTRY MORTARS: Two 2-gun infantry mortar batteries north of Scoglitti. For vertical view see grid reference H382124 on page 5.





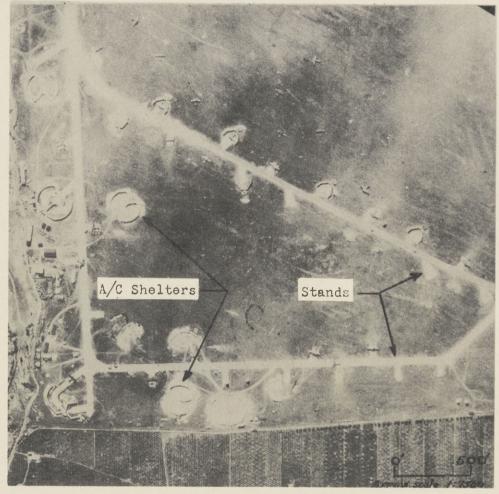
## DEFENSES



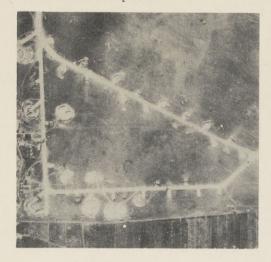
FLAK TOWERS: Six flak towers protecting north boundary of Comiso Airport. For vertical view see grid reference H531222 and H 528228 on page 9.

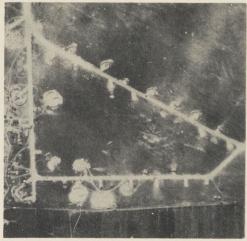






AIRCRAFT SHELTERS: Large, double aircraft shelters at the Gerbini Airport.





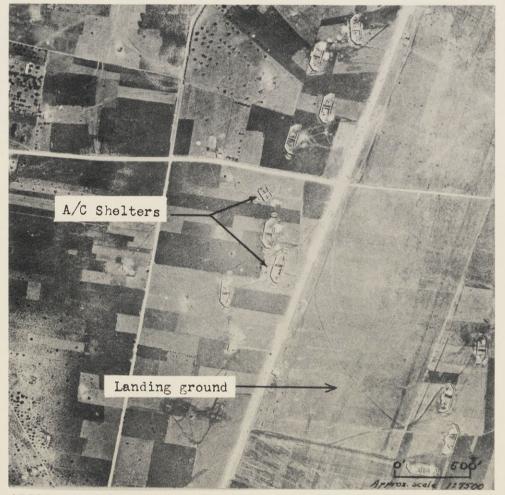
AIRFIELDS



AIRCRAFT SHELTERS: Dispersal of aircraft and aircraft shelters on the Sciacca Airfield. There are 8 shelters.







AIRCRAFT SHELTERS: Fighter-type aircraft in double aircraft shelters on the Pachino Landing Ground.







AMMUNITION DUMPS: Ammunition storage and barracks area at the Gerbini Airport.





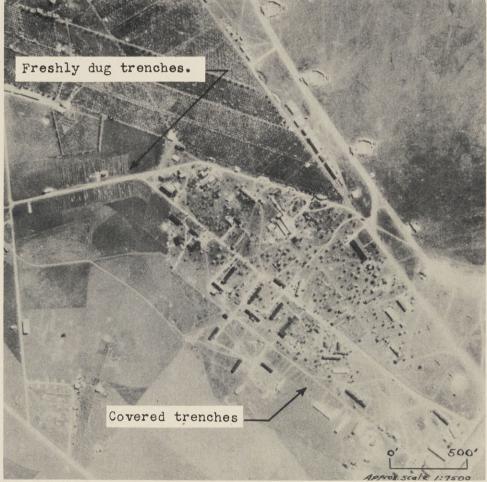


BOMB STORAGE: Technique of bomb storage on perimeter-strip at Comiso Airport. For vertical view see grid reference H549223 on page 9.





AIRFIELDS



FUEL STORAGE: Suspected method of storing individual cans or barrels of fuel. Similar trenches are seen at Gela and Catania airports.





CONFIDENTIAL MISCELLANEOUS



MILITARY CAMPS: A camp near Gela.







SUPPLY DEPOTS: Supply deopt near Gela.

