

SNIE 11-7A-54

14 September 1954 #67

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SPECIAL

NATIONAL INTELLIGENCE ESTIMATE NUMBER 11-7A-54

(Supersedes SNIE 11-2-54 and SNIE 11-7-54)

SOVIET GROSS CAPABILITIES FOR ATTACKS ON THE US AND KEY OVERSEAS INSTALLATIONS THROUGH 1 JULY 1957

Submitted by the

DIRECTOR OF CENTRAL INTELLIGENCE

The following intelligence organizations participated in the preparation of this estimate: The Central Intelligence Agency and the intelligence organizations of the Departments of State, the Army, the Navy, the Air Force, and The Joint Staff.

Concurred in by the

INTELLIGENCE ADVISORY COMMITTEE

on 17 August 1954, and amended by IAC action on NIE 11-4-54 (14 September 1954). Concurring were the Special Assistant, Intelligence, Department of State; the Assistant Chief of Staff, G-2, Department of the Army; the Director of Naval Intelligence; the Director of Intelligence, USAF; the Deputy Director for Intelligence, The Joint Staff; the Atomic Energy Commission Representative to the IAC; and the Assistant to the Director, Federal Bureau of Investigation.

NOTE: This text (SNIE 11-7A-54) is identical with the text of SNIE 11-7-54 except for the TABLES on pages 7 and 8 and Maps 2, 4, 6, and 7.

** ACCOUNTABLE DOCUMENT **

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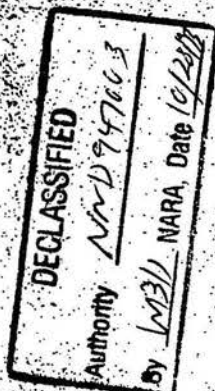
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TABLE I

ESTIMATED 1954-1957 CAPABILITIES OF SOVIET LONG-RANGE AIRCRAFT
(Calculated in accordance with US Military Mission profiles)

Conditions	TU-4	Medium Bomber TU-4 (Modified)	Type 39 *	Heavy Bomber (1957) Type 37 *
<u>Combat Radius/ Range (nm)</u>				
a. 10,000 lb. load one refuel.	1,700/3,100 2,400/4,300	2,000/3,600 2,800/5,000	1,500/2,900 2,100/4,000	2,750/5,300 3,800/7,300
b. 3,000 lb. load one refuel.	1,950/3,500 2,750/4,900	2,300/4,100 3,200/5,700	1,700/3,300 2,400/4,600	2,850/5,500 3,900/7,500
<u>Speed/Altitude (kn/ft)</u>				
a. Maxi. speed	350/30,000	360/30,000	535/15,000	535/19,000
b. Com. speed	350/30,000	360/30,000	475/41,000	475/44,500
<u>Combat Ceiling ** (ft)</u>	36,500	37,500	43,500	48,000

This document has been
approved for release through
the HISTORICAL REVIEW PROGRAM of
the Central Intelligence Agency.

Date 6/28/93

BY 93/3

* The Director of Naval Intelligence believes that the operating performance capabilities of these aircraft could be approximately as indicated. However, he desires to note that these data are based primarily on inflight photographs and a series of assumptions. Therefore, they may be subject to some revision, either upwards or downwards, as more substantial direct evidence becomes available.

** The altitude at which rate of climb of 500 ft/min can be maintained at the end of the given combat radius of the aircraft.

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TABLE II

**ESTIMATED 1954-1957 SOVIET LONG-RANGE AIRCRAFT CAPABILITIES
UNDER A MODIFIED MISSION PROFILE**

(Calculated in accordance with US Military Mission Profiles except that fuel reserves are reduced and aircraft operate at altitudes permitting maximum radius/range)

<u>Conditions</u>	<u>TU-4</u>	<u>Medium Bomber TU-4 (Modified)</u>	<u>Type 39 *</u>	<u>Heavy Bomber (1957) Type 37 *</u>
<u>Combat Radius/ Range (nm)</u>				
a. 10,000 lb. load one refuel.	1,800/3,300 2,500/4,500	2,150/4,000 3,000/5,600	1,600/3,100 2,200/4,300	3,100/6,100 4,300/8,100
b. 3,000 lb. load one refuel.	2,050/3,700 2,850/5,100	2,450/4,600 3,450/6,450	1,850/3,700 2,250/5,000	3,200/6,400 4,300/8,200
<u>Speed/Altitude (kn/ft)</u>				
a. Maxl. speed	350/30,000	360/30,000	535/15,000	535/19,000
b. Com. speed	350/30,000	360/30,000	475/42,000	475/45,500
<u>Combat Ceiling ** (ft)</u>	36,500	37,500	43,500	48,000

Estimated maximum target altitudes (100 ft/min rate of climb) for the Type 37 and Type 39 on one-way missions, one hour of fuel remaining, bombload aboard and with maximum power, are as follows:

<u>Type 37 *</u>		<u>Type 39 *</u>	
<u>Bombload (lbs.)</u>	<u>Altitude (ft.)</u>	<u>Bombload (lbs.)</u>	<u>Altitude (ft.)</u>
20,000	55,100	10,000	49,700
10,000	56,300	3,000	51,100
3,000	57,200		

* The Director of Naval Intelligence believes that the operating performance capabilities of these aircraft could be approximately as indicated. However, he desires to note that these data are based primarily on inflight photographs and a series of assumptions. Therefore, they may be subject to some revision, either upwards or downwards, as more substantial direct evidence becomes available.

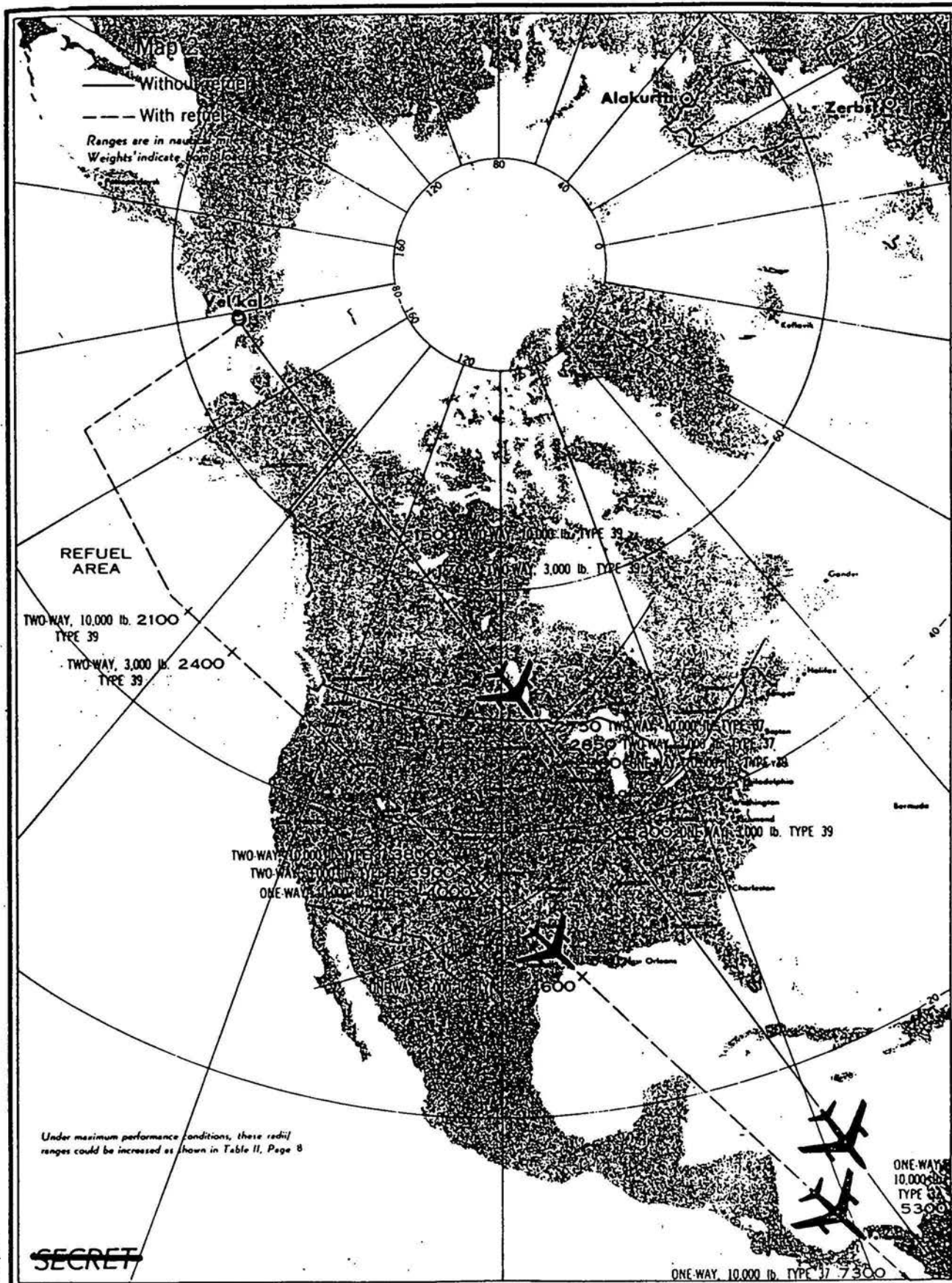
** The altitude at which rate of climb of 500 ft/min can be maintained at the end of the given combat radius of the aircraft.

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TYPE 39 AND TYPE 37

From the Chukotski Area

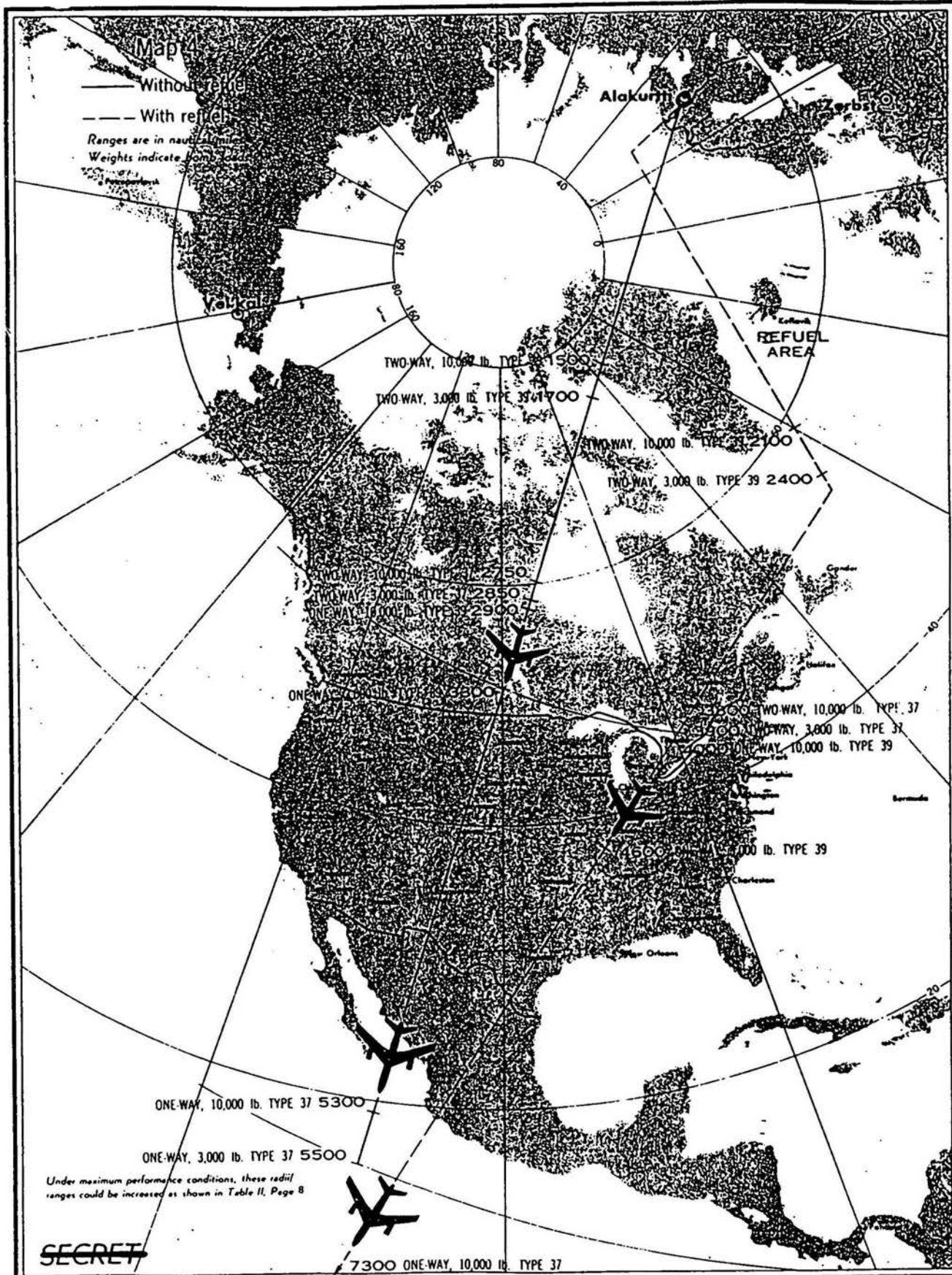
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TYPE 39 AND TYPE 37

From the Kola Area

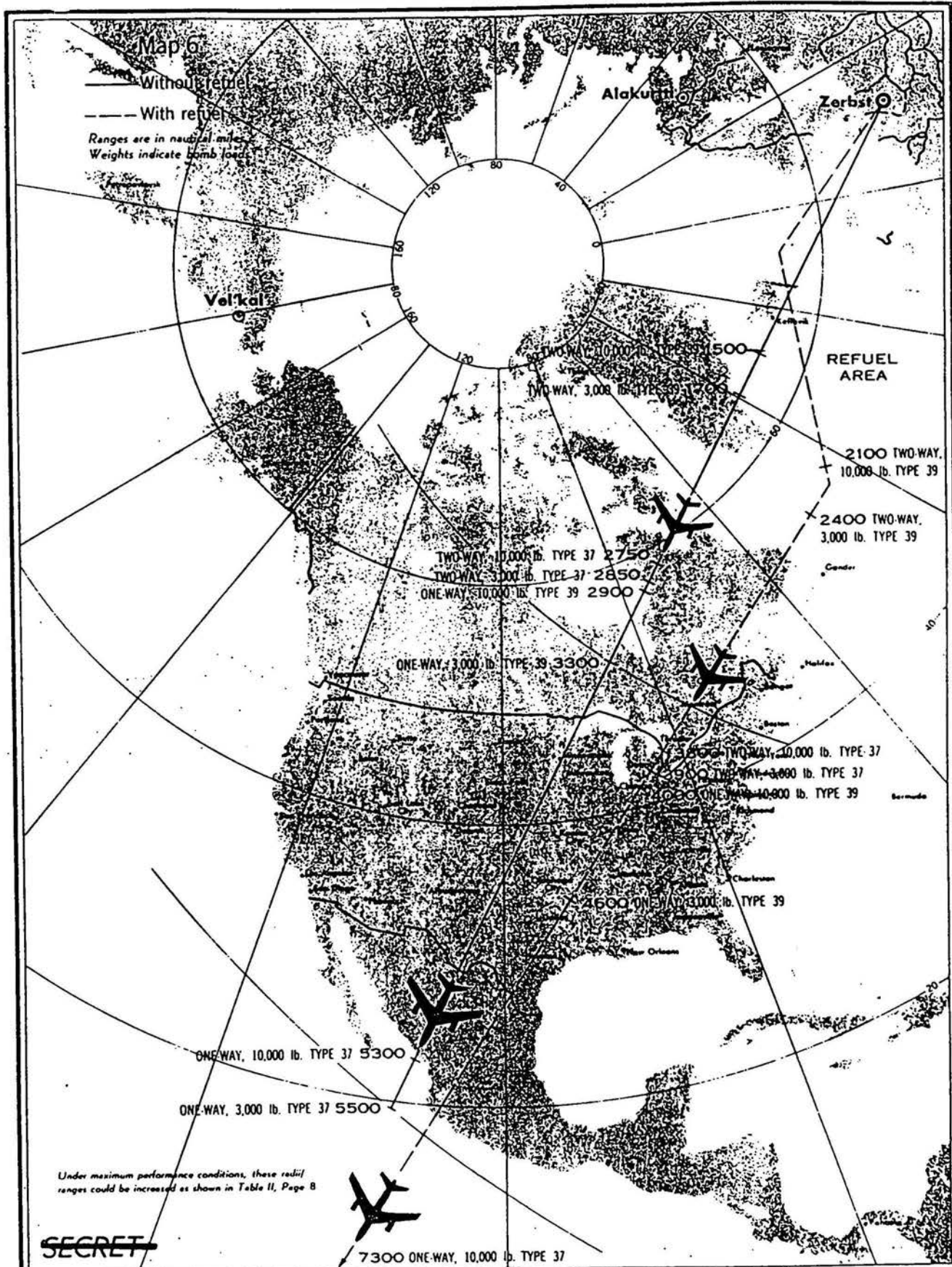
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TYPE 39 AND TYPE 37

From the Baltic-East German Area

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CAPABILITIES AGAINST KEY US OVERSEAS INSTALLATIONS

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Map 7

