MR 005 (1) WEATHER — NATURAL AND PHYSICAL SCIENCES

SECTION I — 1942 & 1943
NAVY DEPARTMENT
Office of the Chief of Naval Operations
Washington

MEMORANDUM

From: Director of Naval Intelligence.
To: Naval Aides to the President.

Subj: Weather Conditions on the Russo-German Front for September, October, and November 1943 - information on.

1. In accordance with the oral request made by Lieutenant (jg) Kinsky, of the Naval Aide's office, the following information is transmitted herewith:

FOR NORTHERN FRONT (Nurmansk - Leningrad)

(a) In this area, inland waterways freeze during late October or early November.
(b) The ground is ordinarily covered with snow from late October.
(c) There is a monthly precipitation of 2.2 inches during September and October, and 1.4 inches in November.

NORTHERN FRONT (Leningrad-Valikie Luki)

(a) Inland waterways freeze during November in this area.
(b) Snow begins to fall during the last week in October.
(c) There are 2.2 inches of precipitation during September, 1.8 inches during October, and 1.3 inches during November.

CENTRAL FRONT (Valikie Luki-Nurmansk)

(a) Inland waterways freeze during the latter part of November.
(b) Snow begins to fall during the last week in October.
(c) There are 2 inches of precipitation during September, 1.9 inches during October, and 2.4 inches during November.

SOUTHERN FRONT (Nurmansk - Tashkent)

(a) Inland waterways freeze during the end of November.
(b) There is very little snow during September, October and November.
(c) There are about 1.5 inches of precipitation a month during September, October, and November.

SOUTH FRONT

(a) During September, October, and November, there is little or no freeze or snow in this area.
(b) There are 1.9 inches of precipitation during September, 1.6 inches during October, and 2.6 inches in November.
MEMORANDUM FOR: Chief of Staff, U. S. Army

Subject: The Effect of Weather Upon Air Operations During November on the Route Gibraltar to Cairo

1. November marks the beginning of the stormy season in the western Mediterranean area. During this month Gibraltar, the western terminus of the route, presents an average of 11 days with precipitation, while Cairo, the eastern terminus, presents an average of 2 to 6 days.

2. Cloudiness during November varies from 50% at Gibraltar to 30% at Cairo. Only one or two days of fog are expected during the month. Thunderstorms may be expected not more than 2 or 3 days during November.

3. Considering the route as a whole, summations of the flying hazards would indicate that an average of 20 flyable days will be possible on the route from Gibraltar to Cairo. From Cairo to Gibraltar, at least 15 flyable days may be depended upon.

For the Commanding General, Army Air Forces:

D. N. YATES
Colonel, Air Corps
Chief, Weather Information Branch
Weather Division
Office, Asst Chief of Air Staff
Operations, Commitments & Requirements
FRONTAL ZONE WILL EXTEND TO 9Z 3RD FROM SOUTHERN NEW GUINEA THE CENTRAL SOLOMONS NE TO GILBERTS.
ANOTHER ZONE FROM THIS ZONE IN THE CENTRAL SOLOMONS SOUTHEASTWARD MASSING BETWEEN THE BANKS AND SANTA CRUZ ISLANDS TO NORTHERN FIJIS. THESE ZONES MARKED BY CLOUDY TO OVERCAST SKIES SHOWERS AND SQUAWLS BASE OF LOW CLOUD AVERAGING 900 FEET 66 MILES LOWERING TO 500 FEET AND 1 MILE IN HEAVIER SHOWERS WINDS VARIABLE AND GUSTY. REMAINDER OF AREA PARTLY CLOUDY TO CLOUDY SCATTERED SHOWERS AVERAGE BASE 1200 FEET 615 MILES LOWERING IN SHOWERS TO 800 FEET AND 5 MILES WIND SE TO E 14 TO 16 KNOTS FLYING CONDITIONS AVERAGE EXCEPT

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Make original only. Deliver to Code Room Watch Officer in person. (See Art. 76 (4) NAVREGS.)
IN FRONTAL ZONES.
Only statements found in American newspapers URBIS 271314 are in connection with the recent Russian-Japanese fishing agreement which it is stated permits Japanese fishing vessels operating off Siberian coast to send in weather reports and give advance knowledge of weather to be expected in Aleutian area. First statements to this effect were made prior to Speranski's departure and were recently reiterated by Admiral Yarnell in a speech at Boston. Speranski on several occasions firmly denied that any weather information was given by Soviets to Japanese. Lieutenant Chase was acting as interpreter when these statements were made. Officers having close contact with Soviet mission during entire time they were in the United States are of opinion that Speranski statement is correct.

16...ORIG
10/11...13...BAVAIDE...2G...COMINCH...BUAER...FILE

CONFIDENTIAL

Make original only. Deliver to Code Room Watch Officer in person. (See Art. 76 (4) NAVREGS.)
TASS PRINTS FOLLOWING TODAY:

"ACCORDING TO AMERICAN PAPERS A FEW ISOLATED
CIRCLES ARE SPREADING RUMORS TO THE EFFECT THAT
ON SOVIET TERRITORY THERE ARE METEOROLOGICAL
STATIONS FURNISHING ASSISTANCE TO THE JAPANESE
ARMED FORCES AGAINST THE UNISTATES. TASS STATES
WITH FULL AUTHORITY THAT THIS PREVIOUSLY DENIED
CANARD IS THE FRUIT OF FLIGHTS OF FANCY OF THE
AUTHORS IS WITHOUT FOUNDATION AND IS DISTRIBUTED
WITH A VERY EVIDENT TENDENTIOUS PURPOSE."

REQUEST ANY BACKGROUND CONCERNING ABOVE WHICH I
MAY USE IN CASE FEODOROV INQUIRES.
**NAVAL MESSAGE**

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**RELEASED BY**

**DATE** 17 MAY 43

**TOR CODE ROOM** 1706

**DECODED BY** NILES/MONROE

**PARAPHRASED BY**

**INDICATE BY ASTERISK ADDRESSES FOR WHICH MAIL DELIVERY IS SATISFACTORY.**

ROONEY 170908

**NCR 8099**

UNLESS OTHERWISE INDICATED THIS DISPATCH WILL BE TRANSMITTED WITH DEFERRED PRECEDENCE.

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**FOLLOWING RECEIVED AS ALUSLO FAIRBANKS 150540.**

**QUOTE:** SYNOPSIS WEATHER REPORTS BROADCAST FROM KHMBAROVSII CONTAIN MANY ERRORS AS TO SUGGEST POSSIBILITY DELIBERATE DISTORTION. MESSAGE AT 140220 GREENWICH EXAMPLE. OPERATING FORCES ALEUTIANS DEMAND CORRECTIVE ACTION. UNQUOTE. DOES OPNAV CONCUR IN STATEMENT MADE ABOVE

**13...ACTION.**

| CNO | 16...26...28...28...COMCH...BUAER...FILE. |

**BILAS**

E.O. 11662, Sec. 3(E) and 3(D) or (E)

OSD letter, May 3, 1972

By RHP, NARS Date DEC 12 1973

**Make original only. Deliver to communication watch officer in person. (See Art. 76 (4) NAVREGS.)**

170908 005
### NAVAL MESSAGE

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**RELEASED BY**

12 DECEMBER 1942

**TOR CODEROOM**

2317/2155

**DECODED BY**

PARSON8/PARSON8

**INTERCEPT**

112055

**NCR 8454-J**

**ORIGINATOR FILL-IN DATE AND TIME**

DATE

TIME

**TEXT**

**ACTION**

ZEAL. FROM GINGPAC.

WEATHER AT RABAUL. SURFACE WIND CALM LIGHT RAIN OVERCAST NIMBUS AT 1500 FEET VISIBILITY 1/2 MILES. CUMULUS NIMBUS CLOUD TO EAST AND WEST.

---

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SIX COPIES TO F-941

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**RECLASSIFIED**

R.O. 11652, Sec. 8(E) and 8(D) or (E)
OSD letter, May 3, 1972
By RHP, NARS Date DEC 1 2 1973

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NAVY DEPARTMENT

NAVAL MESSAGE

FROM: COMAIRSOSAC
RELEASED BY:
DATE: 11 DEC 1942
TOR CODEROOM: 1422/1314
DECODED BY: MIKELL
PARAPHRASED BY:

INDICATE BY ASTERISK ADDRESSEES FOR WHICH MAIL DELIVERY IS SATISFACTORY.

NCR 8054

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ORIGINATOR FILE DATE AND TIME

TEXT

ACTION

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F-35
F-37
TG-00
VCNO

WEATHER FORECAST

OPERATING AREA FORECAST FOR 12TH. WEAK WAVE

DEVELOPMENT IS CENTERED 100 MILES WEST OF EFETE WITH

WEAK FRONTAL ZONE EXTENDING NORTH TO VANIKORO. PARTLY

CLOUDY NOW AND MIDDLE CLOUDS IN WEST PORTION CUMULUS TO

OCCASIONAL OVERCAST IN EAST PORTION. SCATTERED SHOWERS

AND SQUALLS BECOMING MORE FREQUENT IN FRONTAL ZONE.

CEILING 1000 FEET CUMULUS TOPS 7000 WITH STORMHEADS

TO 20000. VIS 20 MILES EXCEPT 2 MILES IN SQUALLS WITH

CEILING LOWERING TO 5000 FEET. WIND SURFACE TO 5000

FEET SOUTHEAST 10 KNOTS IN WEST PORTION SOUTHEAST

FIFTEEN IN EAST PORTION. 10,000 NORTH 25 15,000

DECLASSE"ED

E.O. 11652, Sec. 5(e) and 5(d) or (c)
OSD letter, May 3, 1972

RHP, NAVD Date 12 DEC 1973

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**NAVAL MESSAGE**

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**INDICATE BY ASTERISK ADDRESSEES FOR WHICH MAIL DELIVERY IS SATISFACTORY.**

| 111123 |

**NCR 8854**

**UNLESS OTHERWISE INDICATED THIS DISPATCH WILL BE TRANSMITTED WITH DEFERRED PRECEDENCE.**

**ORIGINATOR FILL IN DATE AND TIME**

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**ACTION**

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**NORTHWEST 30 AVERAGE TO GOOD FLYING CONDITIONS EXCEPT IN SQUALLS. OUTLOOK FOR 13TH. CLOUDY PASSING SHOWERS AVERAGE FLYING AND LANDING CONDITIONS IN SOLOMONS.**

**PASSED TO WEATHER CENTRAL**

**DECLASSIFIED**

R.E. 11652, Sec. 3(E) and 5(D) or (3)

OSD letter, May 8, 1972

By: RHP, NARS Date: DEC 12, 1973

**CONFIDENTIAL**

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NAVAl MESSAGE

FROM COMAIRSOPAC
RELEASED BY
DATE 15 NOVEMBER 1942
TOR CODEROOM 1247/1227
DECODED BY WN18NANT/WN18NANT
PARAPHRASED BY

FOR ACTION TASKFORCE 60
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INDICATE BY ASTERISK ADDRESSES FOR WHICH MAIL DELIVERY IS SATISFACTORY.

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ORIGINATOR FILL IN DATE AND TIME
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TEXT

INTERCEPT

FORECAST FOR 16TH. OPERATING AREA. A QUASISTATIONARY FRONT EXTENDS FROM ROTUMA TO DANIJORO EXTENDS ON EASTWARD TO RENNELL ISLAND. ENTIRE AREA PARTLY CLOUDY TO CLOUDY WITH LOW AND INTERMEDIATE CLOUDS. SCATTERED SHOWERS BECOMING MODERATE IN VICINITY OF FRONT. BASE OF LOW CLOUDS AVERAGING 1,000 TO 1,500 FEET TOPS 4,000 AND OCCASIONAL TOPS 7,000 VISIBILITY 15 MILES EXCEPT 1 TO 3 IN SHOWERS WINDS TO 5,000 FEET EASTSOUTHEAST 15 TO 20 KNOTS EXCEPT FAR NORTHERN OPERATING AREA WHERE NORTHEAST 10 TO 15 SURFACE AND ALOFT FLYING CONDITIONS GOOD EXCEPT IN VICINITY OF FRONT WHERE AVERAGE. OUTLOOK FOR 17TH. BROKEN WITH SCATTERED SHOWERS AVERAGE FLYING AND LANDING CONDITIONS IN SOLOMONS.

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E.O. 11662, Sec. 3(E) and 5(D) or (E)
OSD letter, May 8, 1972

SECRET

RIP, NARS DEC. 12, 1973
**NAVAL MESSAGE**

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INDICATE BY ASTERISK ADDRESSEES FOR WHICH MAIL DELIVERY IS SATISFACTORY.

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**TEXT**

**INTERCEPT**

ZEAL FROM CINCPAC

WEATHER 17/0 15TH FOLLOWS: RABUAL SURFACE WIND WEST 4 KNOTS INTERMITTENT RAIN TOTAL OVERCAST FIVE TENTHS LOWER NIMBO STRATUS BASE 1500 FEET. CONSIDERABLE LOW TYPE STRATUS TO BAIL EASY VISIBILITY 2 TO 6 MILES. KAVIENG SURFACE WIND EAST 2 KNOTS. TOTAL CLOUD OVERCAST WITH BREAKS BASE CLOUDS 2 TO 3 THOUSAND FEET VISIBILITY 12 MILES LAE SURFACE WIND SOUTHEAST 4 KNOTS. TOTAL CLOUD OVERCAST. LOWER CLOUD CULULO NIMBUS THREE TENTHS BASE 2 TO 3 THOUSAND FEET.

3 COPIES TO 2G....

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OSD Letter, 5-3-78
DEC 1 2 1973

Make original only. Deliver to communication watch officer in person. (See Art. 76 (4) NAVREGS.)
FORECAST FOR 15TH.

ENTIRE OPERATING AREA. SEM STATIONARY FRONT 100 MILES NORTHEAST OF NDENI EXTENDS NORTHWEST TO NEW IRELAND AND SOUTHEAST OF THE FIJI ISLANDS. CLOUDY WITH LOW AND MIDDLE CLOUDS BECOMING OVERCAST. FRONTAL ZONE SCATTERED SHOWERS OVER ENTIRE AREA BECOMING MORE FREQUENT IN FRONTAL ZONE CEILING AVERAGING 1500 FEET AND VISIBILITY 20 MILES LOWERING TO 500 FEET AND 2 MILES IN RAIN CLOUD TOPS 4000 FEET EXCEPT IN FRONTAL ZONE WHERE 10,000 WIND SURFACE TO 6000 FEET EAKD AND SOUTHEAST 15 TO 20 KNOTS VEERING WITH ALTITUDE TO NORTHWEST 15 KNOTS. FLYING CONDITIONS AVERAGE TO BELOW AVERAGE IN FRONTAL ZONE AND OVER ISLANDS AT TIMES.

OUTLOOK FOR 16TH. BROKEN WITH SHOWERS AND AVERAGE TO BELOW AVERAGE FLYING AND LANDING CONDITIONS IN SOLOMONS.
**NAVIGATION MESSAGE**

**FROM**: COMAIRSOPAC  
**RELEASED BY**:  
**DATE**: 27 OCTOBER 1972  
**TO COREGROOM**: 1540/1415  
**DECODED BY**: YEAGER/PARSONS  
**PARAPHRASED BY**:  

**ADDRESSSES**: ALL TASKforces SOPAC  
**FOR ACTION**:  
**INFORMATION**: COM80WESTPAC  
**OP PRIOR**: OP  
**ROUTINE**: DEFERRED  
**PRIOR**: BURP  
**ROUTINE**: DEFERRED  

**PRECEDE**:  

**LIMITED DISTRIBUTION**:  
**ON MATES 110. COMFORTABLE 6419**  
**UNLESS OTHERWISE INDICATED THIS MESSAGE WILL BE TRANSMITTED WITH DEFERRED PRECEDENCE**  

**ORIGINATOR FILL IN DATE AND TIME**  
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**GET**:  

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**ACTION**

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**INTERCEPT**

**FORECAST FOR 26TH. ENTIRE OPERATING AREA. A WIDE FRONTAL ZONE OF MODERATE INTENSITY EXTENDED FROM ROYES NORTHWESTWARD TO RENNEL ISLAND AT 1800L MOVING EASTWARD SLOWLY. FRONTAL ZONE EXPECTED OVER SOLOMONS AT NOON TOMORROW. PARTLY CLOUDY TO CLOUDY WITH INTERMEDIATE AND LOW CLOUDS BASE AVERAGING 1500 FEET TOPS 5000 EXCEPT IN FRONTAL ZONE WHERE LOW OVERCAST AT 5000 FEET WITH MODERATE CONTINUOUS RAIN AND SHOWERS TOPS 15 TO 20000 FEET VISIBILITY 20 MILES EXCEPT ONE HALF MILE IN FRONTAL ZONE WINDS EAST TO SOUTHEAST 10 TO 15 KNOTS WITH GUSTS OF 25 AT FRONTAL ZONE WINDS ALOFT SOUTHEAST 20 TO 25 KNOTS EAST OF FRONTAL ZONE WHERE NORTHWEST 15 KNOTS WEST OF FRONTAL ZONE FLYING CONDITIONS AVERAGE EXCEPT UNDESIREABLE IN FRONTAL ZONE. OUTLOOK FOR 29TH. CLOUDY BECOMING OVERCAST WITH MODERATE SHOWERS OVER SOLOMONS FLYING AND LANDING CONDITIONS BELOW AVERAGE.**

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**OBD Letter, 5-3-72**

**DEC 12 1973**

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U. S. GOVERNMENT PRINTING OFFICE: 10-02-72
NAVAL MESSAGE

FROM: COMAIRSOPACFOR
RELEASED BY:

DATE: OCTOBER 26, 1942
TOR CODEROOM: 1430
DECODED BY: CONNOR/MALCOLMSON
PARAPHRASED BY:

OP PRIORITY

CMDRS SOUTH PAC.

OP PRIORITY

GMST WSTPACFOR

DEFERRED

DEFERRED

OP PRIORITY

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STATIONARY FOR

INFORMATION

FOR ACTION

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ROUTINE

NOTICE

SUBJECT

OP PRIORITY

ROUTINE

DEFERRED

DEFERRED

INDICATE BY ASTERISK ADDRESSEES FOR WHICH MAIL DELIVERY IS SATISFACTORY.

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2610448
MCR 5438

ORIGINATOR FILL IN DATE AND TIME

TEXT

INTERCEPT

LIMITED DISTRIBUTION

FORECAST FOR TWENTY SEVENTH ENTIRE OPERATING AREA. A WEAK COLD FRONT IS APPROACHING THE SOLOMONS AND NEW HEBRIDES FROM THE WEST AND A WEAK WAVE IN AN INTER-TROPICAL FRONT IS CENTERED NORTH OF THE SANTA CRUZ AREA. CLOUDY OVER ENTIRE AREA WITH MIDDLE AND LOW CLOUDS BASE FIFTEEN HUNDRED TO TWO THOUSAND FEET FREQUENT SHOWERS IN SOLOMONS AND NEW HEBRIDES AREA VISIBILITY TEN MILES IN SOLOMONS AND NEW HEBRIDES TWENTY IN SANTA CRUZ CEILING LOWERING TO FIVE HUNDRED FEET AND VISIBILITY TO TWO MILES IN SHOWERS TOPS OF LOW CLOUDS FOUR THOUSAND FEET WITH SCATTERED CUMULO NIMBUS TOWERING TO TWELVE THOUSAND FEET WIND EASTERLY FIFTEEN TO TWENTY KNOTS TO SIX THOUSAND FEET WES TERLY FIFTEEN KNOTS ALOFT. FLYING AND LANDING CONDITIONS AVERAGE. OUTLOOK FOR TWENTY EIGHTH. CLOUDY WITH IMPROVED FLYING AND LANDING CONDITIONS.
WASHINGTON DC AUGUST 28 1942

INFORMATION: COMINCH DUTY OFFICER
OPERATIONS DUTY OFFICER

COM GULFSEA FRONTIER HAS DIRECTED FOLLOWING STORM WARNING BE ISSUED IN PLAIN LANGUAGE TO ACTIVITIES IN EFFECTED AREA OF COM SEVEN AND COM EIGHT.

FROM NEW ORLEANS LA 172226

STORM WARNINGS ORDERED AS FOLLOWS:

HOIST STORM WARNINGS 5:30 PM PORT EADS LA TO BROWNSVILLE TEXAS AND SMALL CRAFT WARNINGS EAST OF PORT EADS TO CARABELLE FLORIDA.

WINDS WILL INCREASE SATURDAY ON LOUISIANA AND TEXAS COASTS AND CONTINUED FRESH TO STRONG SHORT DISTANCE OFFSHORE EAST OF PORT EADS TO CARRABELLE FLORIDA. WEEK END VISITORS SHOULD STAY AWAY FROM EXPOSED COASTAL ISLAND ALONG TEXAS AND LOUISIANA COAST AND SMALL CRAFT SHOULD NOT VENTURE INTO GULF. . D y k e

634PM EWT OPR SH. PLS ACK

ACTION COMINCH

20 28 38 OPDO F37 49
From: Moscow
To: WAR Washington DC
No. 22 August 19, 1942

Cite your Nr four two August fifth Russian weather service directly under high command with direct control all civil and Naval services and technical control separate Air Force weather service. All training and equipment under central office. Separate units furnish service to higher army echelons. Service divided into regions with main forecast and collection centers at regional Hqtrs. Information collected by wire and radio and forecasts disseminated with analyses from regional centers by radio only. All airports within regions have small forecasting staffs which draw two synoptic charts daily and issue forecasts with assistance of regional broadcasts. Regional centers draw four synoptic charts daily. Hydrographic and met services combined. Communications facilities controlled by Commissar of communications who guarantees priority on WX transmissions within specific limits. All regional directors have radio broadcasts facilities available and some use full time of station assigned. Control of both wire and radio communications facilities rests with commissar of communications however I am advised that adequate service is always made available to weather service. Synoptic weather information hydrographic data and forecasts are transmitted over these networks. For AFTSW from Yates. At present in Russia twenty five only
From: Moscow
To: War Washington DC
No. 22 August 19, 1942

RAOB and APOB stations and two hundred fifty Pibal, WX stations on most northern Islands from which will get reports for exchange. In Moscow thirty day forecasts are prepared and distributed reported only fair.

Bardley

FOOTNOTE: # 42 evidently erroneous reference - WDCMC invited attention to # 44 (CM-OUT-1038 - 8/4/42) CG AAF

ACTION: CG AAF

INFO COPIES: OPD, G-2, A-2

CM-IN-8519 (8/23/42) 0211Z

DECLASSIFIED
E.O. 11852, Sec. 3(E) and 5(D) or 3(E)
OSD letter, May 3, 1972
By RHP, NARS Date DEC 12 1973

M.I. S, JOURNAL NO. 171 AUG 22 1942

COPY No.

THE MAKING OF AN EXACT COPY OF THIS MESSAGE IS FORBIDDEN
ZOT HABAROVSK HAS NOT BEEN RECEIVING FROM RADIO STATION CAPE SCHMIDT WEATHER REPORTS COVERING LATTER'S 9 CONTRIBUTING STATIONS. YOUR 3016% CAUSE OF FAILURE UNDER INVESTIGATION AND EXPECTED TO BE DETERMINED WITHIN WEEK. IF TRANSMISSION REPORTS FROM SAID STATIONS PROVES IMPOSSIBLE OTHER STATIONS SAME AREA WILL BE SUBSTITUTE. AM INFORMED UNOFFICIALLY RUSSIANS INTEND ACCEPTING MEMBERSHIP IN INTERNATIONAL WEATHER COMMITTEE AND WILL SEND REPRESENTATIVES.
**NAVAL MESSAGE**

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**INFORMATION**

- INDICATE BY ASTERISK ADDRESSEES FOR WHICH MAIL DELIVERY IS SATISFACTORY.

**LT KELLY**

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**TEXT**

(PASS TO NCR BY COMDR MAGUIRE WHO RECEIVED THIS FROM ARMY.)

REFERENCE DUNCAN'S RADIO 256615 PARAGRAPH 1 REQUEST BULLETINS EVERY 2 HOURS THROUGHOUT THE 24. REFERENCE PARAGRAPH 2 SATISFACTORY. REFERENCE PARAGRAPH 3 SATISFACTORY FACTORY. REFERENCE PARAGRAPH 4 CIPHER B SATISFACTORY FOR PRESENT BUT SUGGEST SHIFT TO ONE WAY PAD CIPHERS WITH 25 STATION MILITARY DISTRIBUTION UNITED STATES, CANADA.

ALASKA WITH NO RECIPHERING PERMITTED. USSR TO PREPARE CIPHERS FOR DELIVERY NOVEMBER 1ST AND US TO FURNISH SIMILAR PAD FOR NONE TRANSMISSION DISTRIBUTION TO BE MADE IN USSR ON SIMILAR BASIS. REFERENCE PARAGRAPH 5 REQUEST BULLETINS EVERY 2 HOURS THROUGHOUT 24 REQUEST CLARIFICATION FREQUENCY 26 METERS PREFER RESTATEMENT IN KILOCYCLES.

REFERENCE PARAGRAPH 6 ST MATTHEW AND ST PAUL ISLANDS BEING INVESTIGATED FEASIBILITY PROVIDING OBSERVATIONS. WILL SUBSTITUTE NAKEK 982 FOR DILLINGHAM RUBY 986 FOR LIVENGOOD MCGRAITH 986 FOR FLAT POINT BARROW AND AKLAVIK WILL BE AVAILABLE ONLY AT 6 HOURLY INTERVALS FOR THE PRESENT. REFERENCE PARAGRAPH 7 WILL FURNISH INFORMATION REQUESTED BUT STRONGLY RECOMMEND TRANSMISSION ADDITIONAL STATIONS WEST AND NORTHWEST OF SEM CHAN IN ORDER PROVIDE BASIC DATA FOR COMPILING FORECASTS REQUESTED. REFERENCE PARAGRAPH 8

SEE PAGE 2

DECLASSIFIED

568 Letter, 5-3-78

DEC 12 1973
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**LT KELLY** §51615 (FOR FILING ONLY) NCR 7249

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**CONTINUATION:**

SUGGESTED FREQUENCY 120 AND 2960 KILOCYCLES STATION WXY
HOME OPERATION WILL START IN FEW DAYS AND YOU WILL BE
ADVISED. REQUEST USRR BE ASKED TO PROVIDE 1 OR MORE
LIAISON OFFICERS FOR STATION AT HOME PREFERABLY PILOT OF
HOME EXPERIENCE AND METEOROLOGIST US TO PROVIDE SIMILAR
OFFICERS FOR ANYADIR.

(SIGNED) KRONER

BUAER......COG

RECORD COPY: 16...COMING.....13.....FILE.

§51615

DECLASSIFIED
OSD LETTER, 5-3-72

DEC 12, 1973

Make original only. Deliver to communication watch officer in person. (See Art. 76 (4) NAVREG.)
SUGGESTIONS OF USSR IN YOUR 250615 REFERRED TO WAR DEPARTMENT FOR ACTION. PENDING ESTABLISHMENT THESE SCHEDULES URGENTLY REQUIRE ADDITIONAL WEATHER REPORTS IN PRESENT BULLETINS BEING TRANSMITTED FROM KHABAROVSK. RECEPTION OF PRESENT BULLETINS SATISFACTORY BUT LESS THAN HALF OF STATIONS PREVIOUSLY ARRANGED FOR ARE INCLUDED FOUR TIMES DAILY. TWELVE ADDITIONAL STATIONS LISTED IN PARAGRAPH ONE OF REFERENCE DESPATCH EXTREMELY IMPORTANT AND WOULD ASSIST MATERIALLY IF ADDED TO KHABAROVSK BULLETIN. INFORM GENERAL FEDEROFF THAT STARTING IMMEDIATELY ALL AVAILABLE ALASKAN REPORTS LISTED IN PARAGRAPH SIX WILL BE INCLUDED IN PRESENT BULLETINS BEING TRANSMITTED TO USSR.

DISTRIBUTION
13....ORIG

RECORD COPY; COMINCH..P1A..BUAER....COS ARMY...20T...19...

FILE: DIV...

30/1600

Make original only. Deliver to communication watch officer in person. (See Art. 76 (4) NAVREGS.)
IN ORDER TO ASSURE ADEQUATE METEOROLOGICAL INFORMATION
IN CONNECTION WITH PROPOSED NEW AIR LINE BETWEEN ALASKA
AND SIBERIA RUSSIAN WEATHER BUREAU MAKES FOLLOWING
SUGGESTIONS:

1. RUSSIANS WILL ISSUE WEATHER BULLETINS EVERY 2
   HOURS (EVEN HOURS GMT) FROM 2020 TO 1040 GMT FROM
   FOLLOWING 12 STATIONS:
   (INITIAL DIGITS 8 SECOND COLUMN 6 THIRD COLUMN 1 FOURTH
   COLUMN OMITTED)

<table>
<thead>
<tr>
<th>STATION</th>
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<td>254</td>
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<td>246</td>
<td>441</td>
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READ SEVENTY TWO FIVE
BULLETINS WILL ALSO BE SENT FROM 4 STATIONS TO BE OPENED SHORTLY REGARDING WHICH YOU WILL BE ADVISED.

2. WEATHER FORECASTS WILL BE ISSUED 6 HOURS IN ADVANCE 4 TIMES A DAY ON THE Nome-Sem CHAn ROUTE COVERING CLOUDS AMOUNT FORMATION HEIGHT, WIND DIRECTION VELOCITY, VISIBILITY IN KILOMETERS, PRECIPITATION, SPECIAL CHANGES IN WEATHER FOG STORM TYPHOON ETC. FORECASTS WILL BE GIVEN IN THE INTERNATIONAL AVIATION CODE.

3. IN ORDER TO MAKE IT EASIER TO WORK WITH THE INTERNATIONAL AVIATION CODE WE SUGGEST DIVIDING THE AIR ROUTE INTO 5 DIVISIONS GIVE EACH DIVISION AND IDENTIFYING NUMBER IN ACCORDANCE WITH A GROUP OF THE

LLL CODE: Nome-Welkel Number 001, Welkel-Snegzno 002, Snegzno-Sem Chan 003, Sem Chan-Oinyakon 004, Oinyakon-Yakutsk 005.

4. FOR THE ENCIPHERING OF BULLETINS AND FORECASTS USE METHOD AND TABLE BAKER WITH PRESENT AND EXISTING RULES.

NOTE TABLE 6 BECOMES EFFECTIVE AT 0000 SEPTEMBER 1, TABLE 7 BECOMES EFFECTIVE AT 0000 OCTOBER 1. TABLE 6 & TABLE 7 EFFECTIVE AT 0000 NOVEMBER 1 (FROM THE 1ST OF AUGUST TABLE 3 WILL BE REPEATED)

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INDICATE BY ASTERISK ADDRESSES FOR WHICH MAIL DELIVERY IS SATISFACTORY.

PAGE 2 OF 250615 NCR 9632

UNLESS OTHERWISE INDICATED THIS DISPATCH WILL BE TRANSMITTED WITH DEFERRED PRECEDENCE.
5. The meteorological bulletins and forecasts will be given in 20 minute periods by the Anyadir radio station.

Call letters are on a wave length of 26 meters starting following times GMT: 2020, 2220, 0020, 0220, 0420, 0620, 0820, 1020.

6. Russians request we furnish weather bulletins every 2 hours from the following stations: Fairbanks.

Index 97A, Nome 997, Saint Paul 999, Barrow 999, Cordova 974, Yunnan 962, Aklavik 966 and also from following places or from some place that vicinity: St. Matthew Island, Saint Lawrence Island, Livengood, Flag, Dillingham, Anchorage.

7. Desirable that USA furnish for Nome-SEM channel route same information enumerated in paragraphs 2 and 3.

8. Russians express desire forecasts and bulletins be broadcast from Nome station. Please advise call letters, wave lengths, times of transmissions Nome station and your approval or otherwise of suggestions.

BUER ...... ACTION

RECORD COPY: COMINCH...P1A...ARMY...CNO...FILE.
URGENTLY REQUIRE ALL AVAILABLE WEATHER REPORTS EASTERN SIBERIA. DESIRE ADDITIONAL REPRESENTATIONS BE MADE TO USSR FOR RELEASE OF THIS INFORMATION. THESE REPORTS TO BE ADDED TO PRESENT KHABAROVSK BROADCASTS ONLY. IN VIEW OF IMPORTANT INFORMATION CONSIDER IT WOULD ALSO BE ADVISABLE TO SEND AN EXPERIENCED AEROSLOGIST AND 2 MEN TO KHABAROVSK AREA TO COOPERATE WITH USSR METEOROLOGISTS IN FURNISHING WEATHER INFORMATION TO OUR FORCES ALASKAN AREA.

REQUEST YOU INFORMALLY APPROACH APPROPRIATE OFFICIALS WITH A PROPOSAL TO ABOVE EFFECT UNLESS YOU CONSIDER IT INADVISABLE AT THIS TIME.

DISTRIBUTION
13...ORIG
RECP: COMINTCH...BUAERO...16....
FILE: CNO...20P......
HEADQUARTERS ARMY AIR FORCES
OFFICE OF THE DIRECTOR OF WEATHER
ARMY WEATHER CENTRAL
24th and M Streets, N. W.
Washington, D. C.

June 22, 1942

Date

SUBJECT: Receipt

TO: Assistant Director of Weather, Army Weather Central,
24th and M Streets, N. W., Washington, D. C.

1. Received from the Army Weather Central the following
listed (SECRET - Confidential) documents.

SUBJECT: Tactical Weather Forecasts and Verifications
June 13 to June 16.

TO: Major Chester Hammond, Assistant Military Aide to
President, White House, Washington, D. C.

Please accomplish and return immediately to the above address.

Name
Rank
Branch

Office of

*Strike out word not applicable.
June 22, 1942.

MEMORANDUM FOR: Brigadier General Hume Peabody.

Subject: Tactical Weather Forecasts and Verifications June 13 to June 16.

1. Forecast — Relative to Enemy Action in North Pacific.

"Rain and low ceilings will hamper air operations at times in the Aleutian Islands, and along the coast. Only minor restrictions to air operations will develop at sea. Dates on which conditions will be most favorable for flight operations for various stations are listed below:

   On the 13th: Attu, Atka, Dutch Harbor.
   On the 14th: Attu, Atka, Dutch Harbor.
   On the 16th: Attu, Dutch Harbor, Kodiak."

Verifications:

On June 13th, it was reported that Army and Navy planes were at work attacking the Japs in the Western Aleutians.

On June 16th, reports stated the American warplanes continued to blast Jap ships and troops through rifts in low hanging clouds.

Throughout this period, Navy planes carried out extensive reconnaissance in the Bering Sea.
2. **Forecast — Relative to Air Activity over Western Europe.**

"There will be a gradual decrease in storminess over the continent during this period with the best nights for bombing operations occurring on the 14th, 15th, and possibly the 16th. In the British Isles, storminess will begin to produce rain and occasionally low ceilings by the day of the 15th and 16th. This storminess may hamper, to a certain extent, air operations out of the British Isles on all of these days."

**Verification:**

Very little air activity took place on both sides with only minor raids occurring, such as the German raid of 50 planes on the night of the 15th on the southwest coast of England just prior to storm activity moving into England from the southwest early on the 16th.

3. **Forecast — Relative Sand-Storm Activity in Libyan Desert.**

"Some frontal activity on about the 15th and 16th will produce sand storms. Otherwise, conditions will be about normal."

**Verification:**

Dust and sand storms hamper operations of both the Axis and British forces on the 14th and 15th, with improving weather on the 16th.

4. **Forecast — Relative Monsoon Conditions in India.**

"Normal monsoon conditions will prevail during this period."

**Verification:**

The monsoon in India proceeded normally during the period.
Weather in other theaters was not considered significant and was not referred to in any detail in the War and Air Room talks Saturday, June 12, 1942.

H. L. Smith,
Colonel, Army Air Forces,
Assistant Director of Weather.
Room 2105.

June 16, 1942

INFORMAL:

MEMORANDUM FOR: Major Chester Hammond, Assistant Military Aide to President, White House, Washington, D.C.

SUBJECT: Long Range Tactical Weather Forecasts, with subsequent Verifications, week June 6th to June 12th, inclusive.

1. Attached hereto is copy of the long range weather forecast of the Weather Central Division, Directorate of Weather, with subsequent verifications, for the week June 6th to June 12th, inclusive.

2. In connection with the enclosure, attention is called to the fact that no attempt is made to verify all of the weather Central's forecasts. Only a few of the more significant verifications are given where they have, or could have, influenced Military and Naval operations and movements.

3. The tactical weather forecasts are prepared and are available for telegraphic and other dissemination on Fridays, around mid-afternoon.

4. The forecasts are presented orally by Lieutenant Krick, USNR, at the General Staff and the Air Staff meetings on Saturday mornings at 10:30 and 11:30 o'clock respectively.

5. It is believed that arrangements can be made to obtain these long range forecasts from the Weather Central on Friday afternoons. Information on this point may be secured from Lt. Col. H.L. Smith, AAF, Assistant Director of Weather, Weather Central Division, 24th & S Streets, Washington, D.C. Telephone Franklin 7000, Extension 1701.

6. The tactical weather forecasts are prepared for every Theater of war and cover the period from midnight Friday/Saturday to mid-night Friday/Saturday of the succeeding week.

7. It should be borne in mind that long range tactical weather forecasting is not necessarily confined to a seven day period. The Weather Central is prepared to make tactical weather
forecasts, based upon climatological studies, for substantially longer periods, although the element of possible error would probably increase in direct ratio to the length of the forecast.

8. Weather forecasts of exceptional length would, of course, be rechecked from time to time and, when necessary, altered or amended in the light of the more precise data then available.

[Signature]

JOHN H. HENES,
Major, Army Air Forces, A-2.
Subject: Tactical Weather Forecasts for Week June 6 to June 12, with Verifications.

1. Forecast - Relative to Enemy Action in North Pacific.

"In the Aleutian Island region, clearing weather following storminess will increase their vulnerability to attack on the following dates at the listed locations:

Attu: 7th, 8th, 11th, 13th and 14th.
Atka: 7th, 9th and 13th.
Dutch Harbor: 7th, 9th, 10th, 12th and 13th.
Kodiak: 8th, 10th, 11th and 14th.

The 9th and 10th will be most favorable for aerial reconnaissance in the area."

Verification:

The Japanese are believed to have occupied Attu early the 7th since official weather reports from this island ceased on the 7th. Extensive aerial reconnaissance was carried out from Dutch Harbor on the 9th and 10th with negative results, indicating that the enemy employ the bad weather areas to screen their movements and do not operate in the regions of good weather. This is the second case within a week.
in which we have been successful in evaluating enemy capabilities based upon this reasoning.

Forecast - Relative to R.A.F. Activity over the Continent.

"Storminess will set in early Sunday morning and considerable cloud cover will affect targets in the continental area during the course of the week. Best nights for raids are Saturday, Monday and Tuesday."

Verification:

Raid was made over the continent Saturday night but was stopped by bad weather on Sunday night, with some activity again on Monday and Tuesday but no widespread raids were reported the balance of the week.

Weather in other theatres was not considered significant and was not referred to in any detail in the War and Air Room talks Saturday, June 6.

H. L. SMITH,
Lieut. Col., Army Air Forces,
Asst. Director of Weather.
SUBJECT: Tactical Weather Forecasts for Week May 30th to June 5th, with Verifications

TO: A-2 Section, Attention of Major J. H. Hynes

1. Forecast - Relative to Enemy Action in North Pacific

"The movement of enemy surface craft toward the Aleutian Islands will be screened by an extensive cloud cover associated with a storm moving into the area Monday. The area will be vulnerable to attack Wednesday and Thursday after the storm passes, and intermittently thereafter, with enemy craft capable of utilizing bad weather zones for protection against our action."

Verification:

A Japanese force entered the Aleutian Island area behind a storm which passed through the region Monday and Tuesday and attacked Dutch Harbor Wednesday and Thursday.

2. Forecast - Relative to R. A. F. Activity

in conference with Captain Dickson Saturday, May 30, the following statement was made.

"The best nights for R. A. F. activity over the continent are Saturday, May 30, Tuesday, June 2, and Friday, June 5."

Verification:

The devastating raid on Cologne occurred on the night of Saturday, May 30, and a second raid on Essen occurred Monday, June 1. It was reported that the weather over the target was bad and the force returned under more favorable conditions on the night of June 2. Most extensive daylight raids were conducted on Friday, June 5, with over a thousand planes participating.
3. **Forecast - Relative to Action in Central Pacific**

"Weather conditions in the Central Pacific will be of no tactical advantage to either side and the one able to deliver the heaviest blow should be successful."

**Verification:**

Our forces utilizing the prevailing fair weather conditions spotted enemy forces moving toward their objective at Midway Island long before they were in a position to strike, minimized their effectiveness en route to Midway Island, and through continued attack forced them to withdraw.

4. **Forecast - Relative to Sand Storms in the Libyan Desert**

"Sand storms were predicted to begin on Tuesday night in the Libyan Desert, and it was stated that this condition would be favorable to the enemy."

**Verification:**

Sand storms in the Libyan Desert Tuesday and Wednesday permitted Marshall Rommel to consolidate his forces for a counter-offensive on the British because the dust cloud obscured his action from the R. A. F.

---

H. L. SMITH  
*Lieut. Col., Army Air Forces, Asst. Director of Weather*
MEMORANDUM FOR: General Peabody

SUBJECT: Strategical and Tactical Weather Forecasts, with Verifications

1. During the past month, tactical weather forecasts, covering a period of one week, have been given each Saturday morning by Lieutenant Krick, of the Joint Weather Central, AAF, in the War Room and Air Room presentations.

2. Several instances have occurred where these tactical forecasts might have been employed to advantage:

(a) Forecast -- Week of May 2nd to 8th: Relative to Aerial Activity

"Better than normal weather will occur over Norway, Northern France, Germany, the Baltic countries and most of England. All of these areas, therefore, will be vulnerable to attack."

Verification:

This was an active week characterized by wide-spread raids over the continent by the R. A. F.

(b) Forecast -- Week of May 9th to 15th: Relative to Convoy off Norway

"Clear weather will prevail in the Scandinavian countries and Northern Europe during most of this week. A narrow strip of water which will not be afforded the protection of low clouds and fog will occur West and North of Norway most of the period, with convoys vulnerable to attack in this area. A protective cloud cover will occur several hundred miles West of Norwegian Coast."
Verification:

Owing to these conditions the Germans were successful in attacking an Arctic convoy in the clear zone. The British also claimed the sinking of several ships off the Coast of Holland.

(c) Forecast -- Week of May 16th to 22nd: Relative to Aerial Activity

"The weather will be favorable for aerial activity over Europe until mid-week, but storms reaching England by Wednesday and Thursday, May 20-21, will minimize activity thereafter."

Verification:

The R. A. F. staged a large scale attack on Memmheim on the night of the 19th, but for the balance of the week was inactive.

(d) Forecast -- Week of May 23rd to 29th: Relative to Convoy off Norway

"Cloud cover will protect convoy movement off Norway over the week-end. Clearing weather will occur off Northern Norway for a few days by mid-week."

Verification:

The sinking of several ships off Norway was reported on the night of Wednesday, May 27th, through action of enemy aircraft.

(e) Forecast -- Week of May 23rd to 29th: Relative to Aerial Activity

"Widespread bombing operations will be hampered by poor weather in England over the week-end, with a slight improvement through mid-week, but poor weather again at the end of the week."
Verification:

No wide-spread activity was reported by the R. A. F. during the week, with only a few minor raids during the middle of the week.

(f) Forecast -- Week of May 30th to June 5th: Relative to Aerial Activity

"Weather over Germany will be favorable Saturday night, May 30th, also again on Tuesday, June 2, and Friday, the 5."

Verification:

The R. A. F. carried out its largest raid of the war on Saturday night when it attacked the Ruhr, Rhineland, and Cologne.

3. Strategic Forecasts. Various surveys along proposed air routes have been made and the information has proved valuable on several occasions where decisions were based largely on weather.

(a) A notable example occurred in the case of the proposed route over the mountainous country of Burma to China, which will become increasingly difficult to fly as the monsoon rains reach their height. This route will probably be abandoned during the height of the monsoon rains.

(b) A late Spring forecast of the retarding of the monsoon could have been used in estimating the capabilities of the Japanese in Burma.

(c) A late Spring forecast of the continued rains until May in the Crimea could have been used in estimating the beginning of the Spring offensive in Russia.

J. H. HYNES,
Major, Army Air Forces, A-2
This information is largely based on weather data made at Nikolai in the Komandorski Islands, and not on weather conditions along the east coast of Kamchatka. In general, conditions applying in the Aleutians apply in the Komandorski region with some exceptions. Weather uncertain, flying conditions generally poor. September most favorable month; April, May and August next best in order given. For surface craft, August, September and October are best operational months; February to August is second best.

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Map of Supplementary Weather Stations

Table I - Climatic Data for Nikolai, U.S.S.R.

Map of ice Conditions

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### Distribution By Originator

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Subject: Komandorski Islands, U.S.S.R. - Weather and Ice Conditions: Surface Configuration.

A. Fog

Komandorski Islands: The period of heaviest fog does not correspond to that at Kanaga Island, representative of the western Aleutians. July and August are foggiest at Kanaga and April, May and June at Nikolak. However, the total number of foggy days per year is about the same for both stations.

Fog has been reported at the Komandorski Islands for about four-fifths of the navigational season. It is usually so dense that the sun is seen only occasionally. For example, in the summer of 1910 no clear days were reported out of 100.

South winds often bring fog in the Komandorski region, as in the Aleutians. West, northwest, and northeast winds tend to dispel fog but on the average only 12 per cent of the observations in the three summer months record winds from these directions.

Kamchatkan coast: Southeast of the Kamchatka Peninsula fog lies over the water in summer from one-third to one-quarter of the time. The area is one of the foggiest in the world. In June and July it is foggiest and in the winter it is least foggy. These conditions are similar in the Sea of Okhotsk but this area also has much winter and spring fog. Usually the east winds bring fog to the east coast and break that on the west coast, a difference commonly found between the southern and northern sides of the Aleutian Islands.

It is a common occurrence to have clear conditions close in to shore in the vicinity of Petropavlovsk while a heavy fog is over the sea southeast of Kamchatka. This has also been reported in portions of the Kurile and Aleutian Islands and is probably found all along the coasts of Kamchatka and the Komandorski Islands. East of the Kurile Islands, fogs are reported to vary. Some are relatively dry and high and in calm weather lift 30 to 100 feet from the ocean's surface, leaving it clear. At other times they are very dense. Occasionally there are banks of dense, wet fog about 60 foot thick above which the sky is clear.

B. Cloudiness

Komandorski Islands: Average monthly cloud amounts at Nikolak and Kanaga Island are to be similar. Approximately 75 per cent of the time is cloudy at both stations, particularly in the summer cloudiness is high in the vicinity of the islands. During 100 days in the summer of 1910 there were 5 days at Bering Island which had less than 5/10 cloudiness and 20 at Medni Island.

Kamchatkan coast: Southeast of the peninsula cloud incidence is high. The average yearly cloudiness is 70 per cent, reaching a spring and summer maximum of 80 per cent.
C. Winds

KOMANDORSKI ISLANDS: From May to September south winds bring fog and rain. Occasionally they change quickly to northeast or east winds which bring haze and clouds. In the remaining months the winds are stronger and blow more frequently from the prevailing direction (west and northwest) than in summer. Early summer is the most likely period of calms.

Northeast winter winds frequently bring especially heavy and troublesome snow storms in the vicinity of the islands.

There are no completely protected harbors in the islands and winds commonly change direction suddenly, especially in the fall. Therefore, airplanes and vessels at anchor must always be ready to be moved to new anchorages. South east winds usually shift to south and southwest and northeast winds to north and northwest.

"Williawas" have not been reported in the islands. However, the surface configuration of the islands is such that "williawas" could develop, particularly in April and May and October and November.

KAMCHATKA COAST: Southeast of the peninsula winter wind velocities are frequently high, averaging about 20 knots; fall and spring averages are 12 to 15 knots; and summer, 5 to 10 knots. These averages are closely related to the fact that from October to May is the season of gales (when they prevail 15 to 20 per cent of the time). Maximum development is in January and February. Gales are uncommon in summer and calms are more frequent.

D. Temperatures

KOMANDORSKI ISLANDS: Because of the islands' marine position extreme temperatures are not as low as on Kamchatka Peninsula. Winter and spring temperatures of near 0°F. have been recorded although the average at Nikolski is about 26°F. On a few occasions temperatures rise as high as 60°F.

KAMCHATKA COAST: Extremely low temperatures are not recorded in the area. Southeast of Kamchatka Peninsula average air temperatures range from slightly below freezing to a little over 50°F.

E. Ice

KOMANDORSKI ISLANDS: It is only occasionally that sludge ice and new ice of local origin have been observed around the islands (Figure 2). If west or northwest winter winds blow continuously large amounts of drift ice move to the islands from the eastern Kamchatka shore. Under these conditions, aircraft, and possibly ships, might not be able to use the water adjacent to the islands.
KAMCHATKAN COAST: There is drift ice during the winter and spring in the sea east of Kamchatka. This would hamper the use of aircraft and possibly vessels operating near shore. From Cape Lopatka north the sea generally does not freeze, with the following exceptions:

1. **Avacha Bay:** The whole area is ice covered only in extremely severe winters. Generally only the narrow sand coves freeze over or strips of land-fast ice form along the edges. There is stationary ice in the bay from about the end of December until about the middle of March.

2. **Ketronolvok Cove:** It has been reported that freezing occurs here as early as mid-October.

3. **In the open sea near Ketronolvok Light:** When the drift ice breaks up in March it usually moves southward.

4. **Gulf of Kronotski:** About the middle of April all of the ice is usually carried out to sea; but when northeast winds are common the bay again becomes packed with drift ice. For example, this situation arose in 1931, when the ice packed and did not clear until May 22.

5. **Gulf of Kamchatka:** In December and January the ice is in small, oblong blocks of local origin which move southward with the wind. From February to March the gulf is filled with ice ridges after which it is usually clear of ice until April. From April until the end of May, it is filled again with drift ice carried in from the north. This ice remains until the usual clearing time.

F. Precipitation

KOMANDORSKI ISLANDS: The average annual precipitation is less than for the Aleutian Islands region. About half the days in a year have precipitation with the months of July and August and October through January having the most number of days per month with precipitation. The period of maximum precipitation is from July to November, inclusive.

Snow may be expected from mid-October to the first of June. It commonly stays on the ground until the end of July or early August. This late disappearance is due to its great mass and the presence of fogs.

KAMCHATKAN COAST: More precipitation falls along the coast than at Nikolaski. It is much more evenly distributed throughout the year. Snowfall is heavy with maximum amounts falling in January and February.

G. Surface Configuration

KOMANDORSKI ISLANDS: Configuration of the surface of the two islands is similar to that of the Aleutians. Both Bering and Medni Islands are mountain ridges running northwest-southeast. Maximum elevations on Bering Island are

*Freezing and clearing dates are given on Figure 2.*
2000 feet in the middle and 2200 feet in the southern part. On Medni Island there are many peaks with elevations between 1000 and 2000 feet. Local differences in wind currents and velocities, although undetermined, undoubtedly exist and might be of great significance to low elevation flying.
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NIKOLSKI, BEARING ISLAND
Latitude 55°12'N., Longitude 165°59'E.
Station Altitude 20 Feet

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\(^1\) Mean, °Fahrenheit  
\(^2\) Average, "Inches
INCOMING MESSAGE

From: London
To: AGWAR

No. 1750, May 28th, 1942

Request meteorological officer be sent to United States Army FBI by 1st available air transportation. (Attention Commanding General 8 AF) Necessary to have this officer undergo thorough instructions British methods signed Eaker.

Chaney

ACTION COPY: CG AAF
INFO. COPY: OPD G-2 A-2 CG AAF TAG FILE
NAVAL MESSAGE

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FROM

RELEASED BY

27 MAY 1942

DATE

8243

TOR CODEROOM

KAMEN

DECODED BY

HILL

PARAPHRASED BY

KELLY

26/845 NCF 4256

INDICATE BY ASTERISK ADDRESSES FOR WHICH MAIL DELIVERY IS SATISFACTORY.

UNLESS OTHERWISE INDICATED THIS DISPATCH WILL BE TRANSMITTED WITH DEFERRED PRECEDENCE.

ORIGINATOR FILL IN DATE AND TIME

DATE

TEXT

HAVE DISCUSSED QUESTION YOUR 141320 WITH GENERAL FEODOROFF HEAD SOVIET METEOROLOGICAL SERVICE. HE WAS AWARE EXISTENCE OF COMMITTEE HAVING OBTAINED THIS INFORMATION FROM MEMBER HIS STAFF RECENTLY RETURNED FROM ENGLAND WHERE SMALL PARTY SOVIET METEOROLOGISTS SPENT 3 MONTHS STUDYING BRITISH METHODS. FEODOROFF PERSONAL OPINION MO7T DESIRABLE SOVIETS BE REPRESENTED ON COMMITTEE AND SUGGESTS STATE MAKE APPROPRIATE REPRESENTATIONS TO FOREIGN OFFICE. HAVE JUST RECEIVED 3 NEW WEATHER CODES 12 COPIES OF EACH WHICH WILL FORWARD QUICKEST AVAILABLE METHOD.

SOVIETS AUTHORIZE YOU TO MAKE AND DISTRIBUTE ADDITIONAL COPIES CODES NOW IN YOUR POSSESSION. IN VIEW COOPERATION WEATHER SERVICE HERE SUGGEST DESIRABILITY OFFICIALS OR STUDENTS VISIT US EITHER FOR TRAINING OR FAMILIARIZATION METHODS.

DECLASSIFIED

OSD Letter, 5-3-78

DEC 1 2 1973

13.... ACTION

CHD....16.....BUAER....22AER.....COMINCH.........FILE

26/8945

Make original only. Deliver to communication watch officer in person. (See Art. 76 (4) NAVREGS.)
MEMORANDUM FOR THE CHIEF OF STAFF:

1. In response to a question of The President, information is requested as to the prevailing winds from this date throughout the summer and fall along the Eastern Front (between Germany and Russia). This information should include particularly the relationship between these prevailing winds and the use of gas in this area during the summer and fall.

Chester Hammond
Major, J.A.G.D.
White House Map Room
MEMORANDUM FOR THE CHIEF OF STAFF:
(Through the A. G. of S., G-2)

Subject: Prevailing Winds on the Russian Front.

1. In general, the winds on the Western Front blow in from the seas — the Atlantic Ocean, the White Sea, and the Black Sea — during the summer months. In early fall they shift, beginning to blow from the land mass. Thus, in the north the prevailing winds are northerly or northeasterly during the summer, southwesterly during the fall. On the Central Front westerlies prevail both in summer and fall. In the south, westerly or southerly winds are dominant during the summer; northerly or northeasterly winds prevail in the fall.

By and large, the winds are fairly brisk, averaging 8 to 10 miles per hour.

2. The attached chart (Inclosure 1) lists prevailing wind conditions in European Russia throughout the year. The towns are numbered with Roman figures from north to south.

3. The attached map (Inclosure 2) locates the cities and towns in Inclosure 1, and lists them with Roman numerals. The prevailing wind directions for the month of June are indicated by the heads of the arrows, which point away from the source of the winds. In certain instances two directions are given; this means that both are important, with the wind originating from either source. The average velocities are shown by arabic numerals.

4. The relationship between winds and the use of gas is approximately the following:

a. Winds blowing toward the enemy with velocities of 0-4 miles per hour are satisfactory, although danger exists that such light winds may shift.
b. Winds blowing toward the enemy with velocities of 5-7 miles per hour are ideal.

c. Winds of velocities over 10 miles per hour dissipate gas, especially non-persistent gas, too rapidly for effective use.

RUFUS S. BRATTON,
Colonel, G.S.C.,
Chief, Intelligence Group.

2 Inclosures:

1. Chart of Wind Velocities in European Russia.
2. Map of June Wind Directions and Velocities in European Russia.
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JUNE WIND DIRECTIONS AND VELOCITIES IN EUROPEAN RUSSIA