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was missing and the data for the 35000 feet was available, the group 99993 would be included immediately before the group referring to the data for the 35000 foot level.

4. Weather observatories, to prepare and transmit winds aloft reports to the Central Meteorological Observatory, Tokyo, in accordance with paragraph 3 above, will be operated at the following locations:

	Index No.		Index No.
Sapporo	686	Wajima	676
Wakkanai	321	Tokyo	662
Nemuro	683	Sizuoka	262
Urakawa	682	Osaka	245
Aomori	680	Yonago	236
Akita	679	Nagoya	254
Iwateyama	299	Siomisaki	656
Sendai	665	Koti	223
Niigata	677	Hukuoka	210
Maebasi	282	Kagoshima	652

5. Atmospheric soundings taken by means of radiosondes will be prepared and transmitted daily to the Central Meteorological Observatory.

a. Soundings will be taken at the following points:

Tokyo	662
Kagoshima	652
Siomisaki	656
Yonago	236
Wajima	676
Akita	679
Urakawa	682
Wakkanai	321
Aomori	680
Sendai	665
Hukuoka	210
Sapporo	686

b. Code form for the transmission of radiosonde data will be as follows:

(1) The standard or basic section:

IIIGG $P_0P_0'P_0''T_0T_0$ $U_0U_0x_1x_2x_3$ (Oddvv) $P_1P_1'h_1h_1h_1$

$T_1T_1U_1u_1'u_1'$ (Oddvv) $P_2P_2'h_2h_2h_2$ $T_2T_2U_2u_2'u_2'$ (Oddvv)

....

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(2) The section for intermediate points or significant points follows the indicator 11199 inserted in the message:

11199 hhPP'P'' TTUu'u' hhPP'P'' TTUu'u' .....
.....

(3) The symbols above have the meanings listed below:

III - International index number of station.

GG - Time of beginning of ascent, nearest whole hour GCT.

$P_oP'_oP''_o$ - Pressure at surface, whole millibars. Note: The convention of writing P for hundreds place, P prime (P') for tens place, and P double prime (P'') for units place has been adopted and is used throughout.

T_oT_o - Temperature at surface, whole degrees Centigrade.

U_oU_o - Relative humidity at surface, whole per cent.

$x_1x_2x_3$ - Indicator figures to show units used and inclusion of wind groups (tables given in paragraph (4)):
x_1 for heights and temperatures.
x_2 for wind when reported.
x_3 for u'u'.

O - Indicator figure for wind group (radio or radar wind) data in the wind group always applies to the level immediately preceding.

dd - Wind direction, tens of degrees.

vv - Wind speed. (See paragraph (5)(h) for wind speeds in excess of 99 knots).

$P_1P'_1$ - $P_2P'_2$ etc. Pressure (tens of millibars of the first (lowest), second, etc. pressure levels. 00 for 1000mb., 90 for 900 mb., 85 for 850, etc.

$h_1h_1h_1$ - $h_2h_2h_2$ etc. Height of $P_1P'_1$, $P_2P'_2$, etc. in tens of feet.

T_1T_1 - T_2T_2 etc. Temperature at P_1P_1, P_2P_2, etc. in whole whole degrees Centigrade.

u_1u_2 - etc., Relative humidity at P_1P_1, P_2P_2, etc.

$u'_1u'_1$ - u'_2u_2, etc., Moisture values at P_1P_1, P_2P_2, etc.

11199 - Indicator, additional levels follow

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hh - Height of the level in hundreds of feet.

PP'P'' - Pressure at selected point in whole millibars.

TT - Temperature at selected point in whole degrees. Centigrade.

U - Relative humidity to tens of per cent.

u'u' - Moisture values at selected point in units according to x_3.

(4) Code tables for x_1, x_2, x_3 symbols follow:

(a) x_1 - Indicator for units of height and temperature.

0 - Feet and degrees Centigrade.

2 - Feet and degrees Fahrenheit.

4 - Meters and degrees Centigrade.

6 - Meters and degrees Fahrenheit.

7 - Heights not reported and degrees Centigrade.

8 - Heights not reported and degrees Fahrenheit.

(b) x_2 - Indicator for wind group.

0 - Winds not reported.

2 - Winds reported in miles per hour.

4 - Winds reported in knots.

6 - Winds reported in kilometers per hour.

8 - Winds reported in meters per second.

(c) x_3 - Indicator for u'u'.

0 - $m_r m_r$ (mixing ratio grams and tenths, tens figure omitted).

2 - $T_w T_w$ (temperature of wet bulb, whole degrees, Centigrade or Fahrenheit)

4 - $T_s T_s$ (temperature of dew point, whole degrees, Centigrade or Fahrenheit).

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6 - t_1t_1n (depression of wet bulb in half degrees Centigrade or Fahrenheit).

(5) The following practices and conventions in the use of the above code will be followed:

(a) The temperature and moisture group (and wind group) for any pressure level will be omitted when the level is below the surface of the station. Omission of these groups will be clearly indicated by the negative value for height when the surface is below sea level (see paragraph 5b), by the value for surface pressure, and by the first two figures of the next group.

(b) To report heights below sea level, the convention of adding 500 to the code figures (5000 to the actual value in feet) will be used. Example: If the height of the 1000 mb. surface is 1280 feet below sea level, 5000 is added and the figures 628 (128 plus 500) are coded for hhh.

(c) Temperature will be reported in whole degrees Centigrade with code 0 being used for x_1 (paragraph 5b(4)(a) above). The convention of adding 50 for negative values will apply. (For example: -2° coded as 52; -13° coded as 63; -55° coded as 05, etc.).

(d) Moisture content (u'u') will be reported as indicated by code 0 for x_3 (paragraph 5b(4)(c) above).

(e) The levels selected for the basic section will be the mandatory constant pressure levels, 1000, 850, 700, 500, 300, 200, and 100 millibars.

(f) The figures 9, 99, and 999 will be used for missing data in all positions except surface pressure. It is assumed that surface pressure will always be available.

(g) Wind data taken by means other than radio or radar direction means will not be included in the radiosonde report and the groups (0ddvv) will be omitted. When combined radio or radar wind and radiosonde ascents are made. code number 4 will be used for x_2 (paragraph 5b(4)(b) above) and wind data will be included for the mandatory constant puessure levels in the basic or standard section of the report.

(h) When winds are reported, the following convention will be used for reporting wind speeds in excess of 99 knots:

1. In the range 100 to 199. 50 is added to dd, and vv gives the actual speed minus 100. Example: A speed of 117 from the north (360 degrees) is coded 08617.

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2. In the range 200 to 299, the group 00200 is inserted immediately following the 0ddvv group, dd gives actual 10's of degrees and vv gives the actual speed minus 200. Example: A speed of 217 from the north (360 degrees) is coded 03617 00200.

3. In the range 300 to 399, the group 00200 is inserted immediately following the 0ddvv group, 50 is added to dd, and vv gives the actual speed minus 300. Example: A speed of 317 from the north (360 degrees) is coded 08617 00200.

(6) x_3 will be coded as 0 indicating that u'u' is reported in grams and tenths of water, tens being omitted.

(7) Ascents will be commenced daily at 0400Z and 1600Z.

6. The above reporting procedures will be adopted on 15 December 1945.

7. Weather reports received at the Central Meteorological Observatory, Tokyo, in accordance with the above directive will be broadcast at the times and on the frequencies currently authorized for weather broadcasts.

8. Index numbers other than the primary international index numbers for Asia applying to the Japan Area are from supplementary list number three, Japan Area, to Asia list. Index numbers required for stations not assigned a primary number from the Asia list and not assigned a supplementary number above, will be requested from this Headquarters.

FOR THE SUPREME COMMANDER:

H. W. Allen

H. W. ALLEN,
Colonel; A.G.D.,
Asst Adjutant General.

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Japan Area Supplementary List #3- Asia

INDEX NO.	STATION	LATITUDE	LONGITUDE	ELEVATION (M)
201	Makurazaki	31.16	130.18	32.5
210	Hukuoka	33.35	130.23	2.5
213	Oita	33.14	131.37	4.6
220	Sukumo	32.54	132.42	49.7
223	Koti	33.34	133.33	1.2
230	Hirosima	34.22	132.26	29.1
231	Hamada	34.54	132.04	18.0
236	Yonago	35.30	133.18	4.3
240	Takamatu	34.18	134.06	9.3
242	Sumuto	34.24	134.54	109.3
245	Osaka	34.39	135.32	6.7
247	Kyoto	35.01	135.44	41.5
249	Tottori	35.30	134.12	17.3
250	Owase	34.04	136.12	14.0
253	Kameyama	34.51	136.28	69.2
254	Nagoya	35.10	136.58	51.7
257	Gihu	35.24	136.46	12.8
258	Iida	35.31	137.50	481.8
260	Omaesaki	34.36	138.13	45.2
261	Osima	34.46	139.23	190.5
262	Sizuoka	34.58	138.24	13.5
271	Matumoto	36.15	137.68	610.0
274	Kanazawa	36.32	136.39	27.0
282	Maebasi	36.24	139.04	111.7
283	Mito	36.23	140.28	30.0
284	Nagano	36.40	138.12	418.1
285	Nantaisan	36.48	139.30	2479.9
286	Sirakawa	37.07	140.13	354.6
287	Takada	37.06	138.15	13.4
290	Zaosan	38.06	140.24	1760.0
295	Sakata	38.54	139.50	2.0
299	Iwateyama	39.51	141.01	1770.7
301	Hatinohe	40.32	141.32	27.4
312	Suttu	42.48	140.13	15.7
314	Sahorodake	43.12	142.48	1052.8
316	Kusiro	42.59	144.24	32.7
319	Ashahikawa	43.47	142.22	111.3
320	Kitami Esasi	44.54	142.36	6.1
321	Wakkanai	45.25	141.41	1.8

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Primary List of Index Numbers for Asia

INDEX NO.	STATTON	LATTTUDE	LONGTTUDE	ELEVATTON (F)
645	Ishigaki Shima	24.20	124.10	20
646	Miyako Shima	24.50	125.35	
647	Naha	26.12	127.39	92
648	Rasa Jima	24.25	131.15	
649	Minamioagarizima	25.51	131.14	
650	Naze	28.23	129.30	10
651	Yaku Shima	30.51	130.25	
652	Kagoshima	31.34	130.33	13
653	Miyazaki	31.55	131.26	23
654	Simidu	32.47	132.58	10
655	Murotomisaki	33.15	134.11	607
656	Siomisaki	33.27	135.46	240
657	Hamamatu	34.43	137.43	95
658	Tomisaki	34.55	139.50	40
659	Hachijo Shima	33.06	139.50	263
660	Titizima	27.05	142.11	10
661	Iwo Jima	30.48	141.18	
662	Tokyo	35.41	139.46	13
663	Chosi	35.44	140.51	61
664	Onahama	36.56	140.54	16
665	Sendai	38.16	140.54	125
666	Miyako	39.38	141.59	95
667	Simonoseki	33.57	130.56	151
668	Matuyama	33.50	132.45	102
669	Kobe	34.41	135.11	190
670	Tomie	32.37	128.46	89
671	Nagasaki	32.44	129.52	433
672	Ituhara	34.12	129.17	69
673	Matsue	35.26	133.04	
674	Miyazu	35.32	135.12	3
675	Hukui	36.03	136.13	33
676	Wajima	37.23	136.54	20
677	Niigata	37.56	139.03	23
678	Aikawa	38.02	138.14	144
679	Akita	39.43	140.06	30
680	Aomori	40.49	140.47	13
681	Hakodate	41.47	140.43	10
682	Urakawa	42.09	142.47	112
683	Nemuro	43.20	145.35	85
684na	Syana	45.14	147.53	125
685	Horonusiro	50.11	155.45	
686	Sapporo	43.04	141.21	49
687	Haboro	44.23	141.42	62
688	Abasiri	44.04	144.17	125
689	Odomari	46.39	142.46	118
690	Maoka	47.03	142.03	89

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Attached sheet NO. 2.

GENERAL HEADQUARTERS
SUPREME COMMANDER FOR THE ALLIED POWERS

AG 000.93 (23 Feb 46) GC
(SCAPIN -768)

APO 500
23 February 1946

MEMORANDUM FOR : IMPERIAL JAPANESE GOVERNMENT.

THROUGH : Central Liaison Office, Tokyo.

SUBJECT : Operation of Japanese Weather Service.

1. Technical Memorandum AG 000.93-GC-W1, enclosed with Memorandum for the Imperial Japanese Government, file AG 000.93 (19 Nov 45) GC-P, dated 19 November 1945, General Headquarters, Supreme Commander for the Allied Powers, subject as above, is amended as follows:

a. Change paragraph 3a to read as follows:

a. At 0400Z, 1000Z, 1600Z, 2200Z.

IIIGG $H_f$ddv$_k$v$_k$ $H_f$dd v$_k$v$_k$ ... ... (9999n)

... H_fd d v$_k$v$_k$ .... etc.

b. And paragraph 9. as follows:

"9. a. Hourly weather reports from the stations listed in paragraph 2b above and paragraph 1 of Memorandum for the Imperial Japanese Government, File No. AG000.93 (13 Jan 46) GC, subject: Operation of Government Meteorological Stations Located on Detached Islands, dated 13 January 1946, will be sent in sufficient time to arrive at the Central Meteorological Observatory, Tokyo, by forty-five (45) minutes after the hour of observation.

b. Hourly weather reports from weather stations received by the Central Meteorological Observatory will beprepared for transmission to the Army Airways Communications System radio station at Atago Hill, Tokyo, so as to arrive not later than fifty (50) minutes after the hour of observation."

FOR THE SUPREME COMMANDER:

Harold Fair
for
B.M.FITCH,
Brigadier General,AGD.
Adjutant General.

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00 8

Annex 5

19 Feb., 1946

Admit this man to the Shimotogari Radio Tng. Station to obtain rectifiers for radio receiver.

Donald H. Shannon
1st Lt., 64th FA

---

21 Feb., '46

Received 2 portable transmitters MK - TM 4 clocks, electric.

Donald H. Shannon
1st Lt., FA

This is to certify that K. NARUSE acted on orders from 64 Field Artillery Battalion H.Q.'s in and letting admittance to I sgt. / Beike

Removed 3 sets for experimental purpose _____.

No action of any type will be taken against above Japanese personnel.

T/sgt. Beike.

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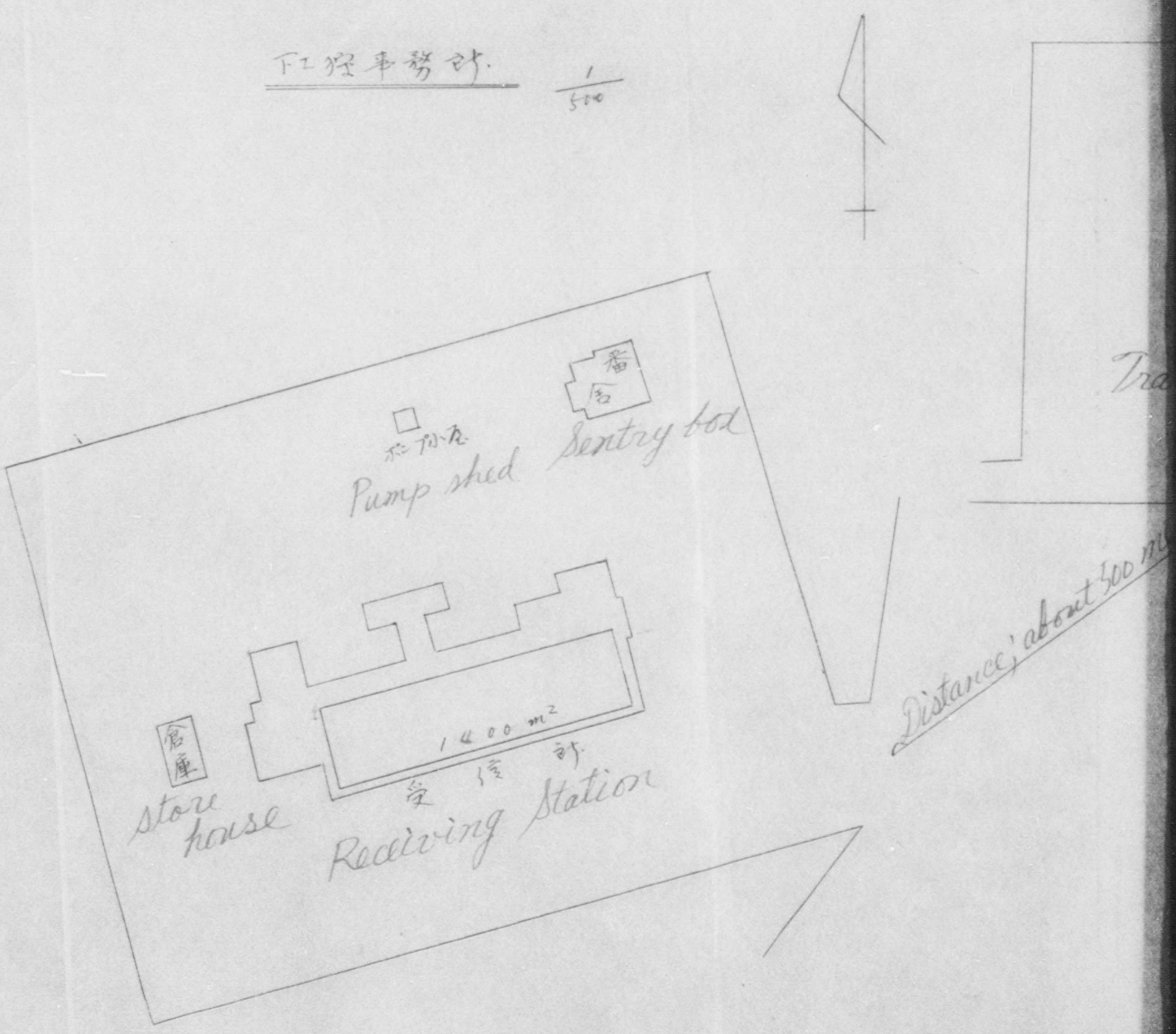
Shimotogari Office

Fig 1

下工廠事務所

1/500



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...togari Office

Fig 1

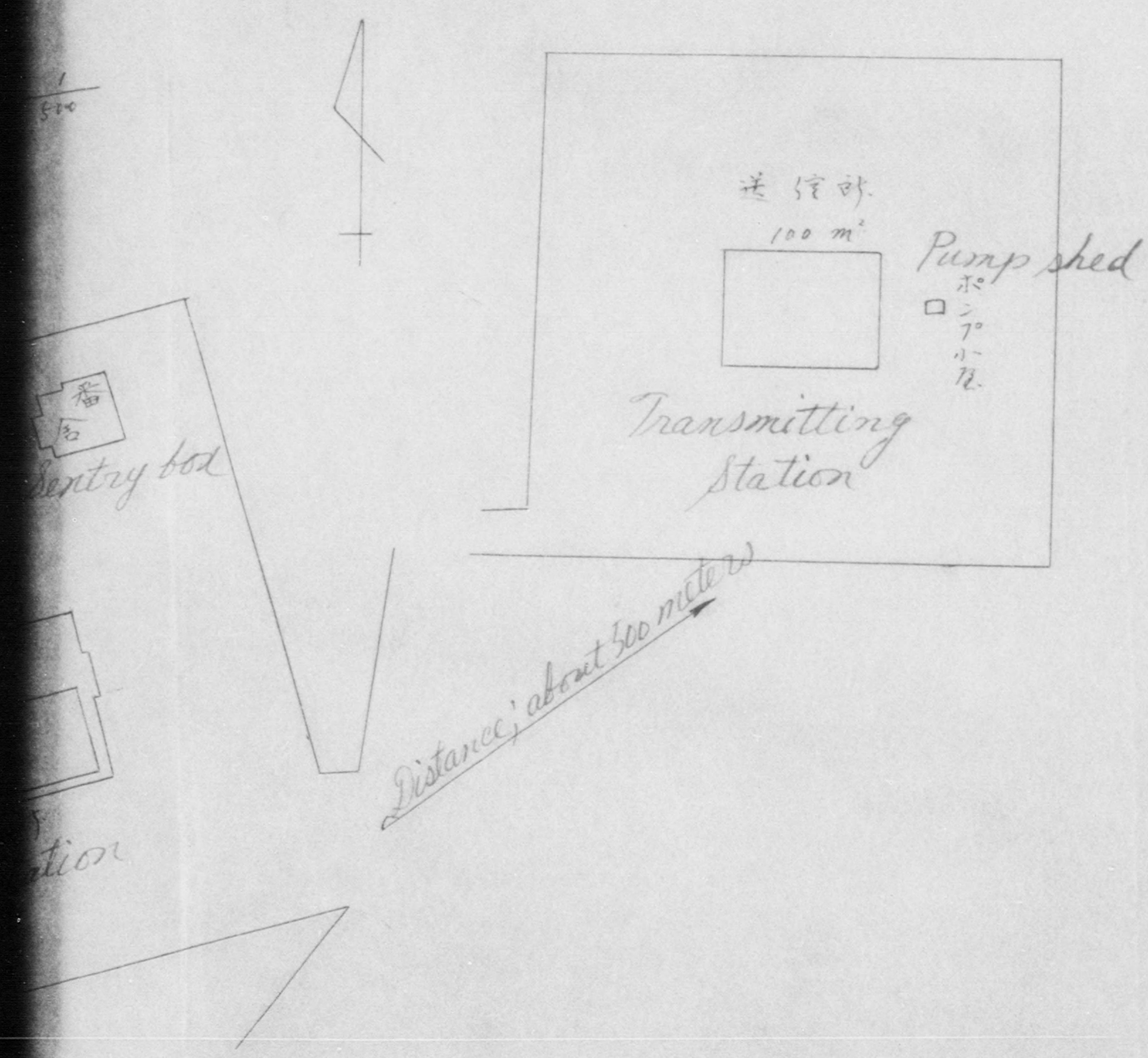

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Fig. 2

System of wi
between each
and in Ida

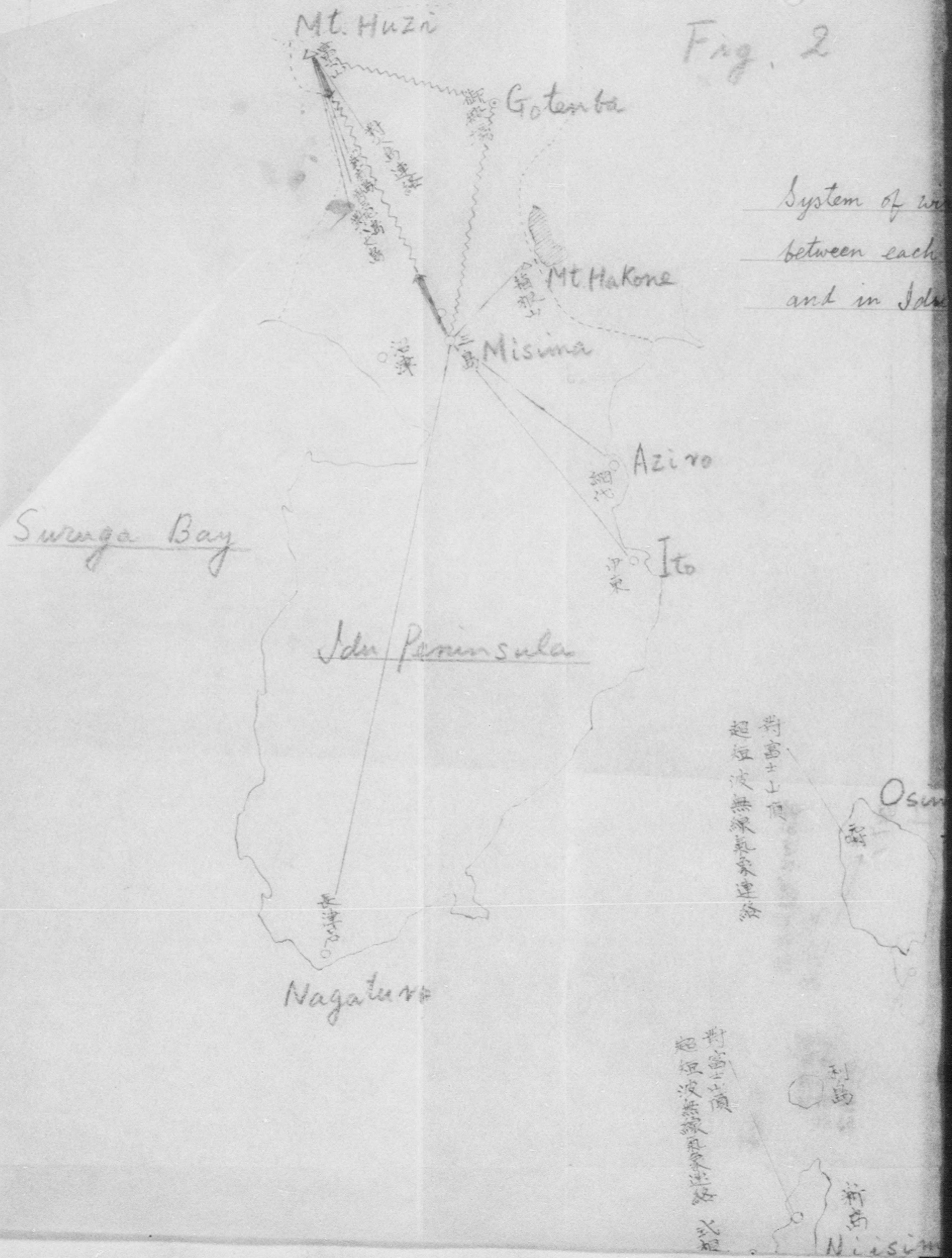

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Fig. 2

System of wireless meteorological communication between each observatory in Idu Peninsula and in Idu Islds. (Plan)

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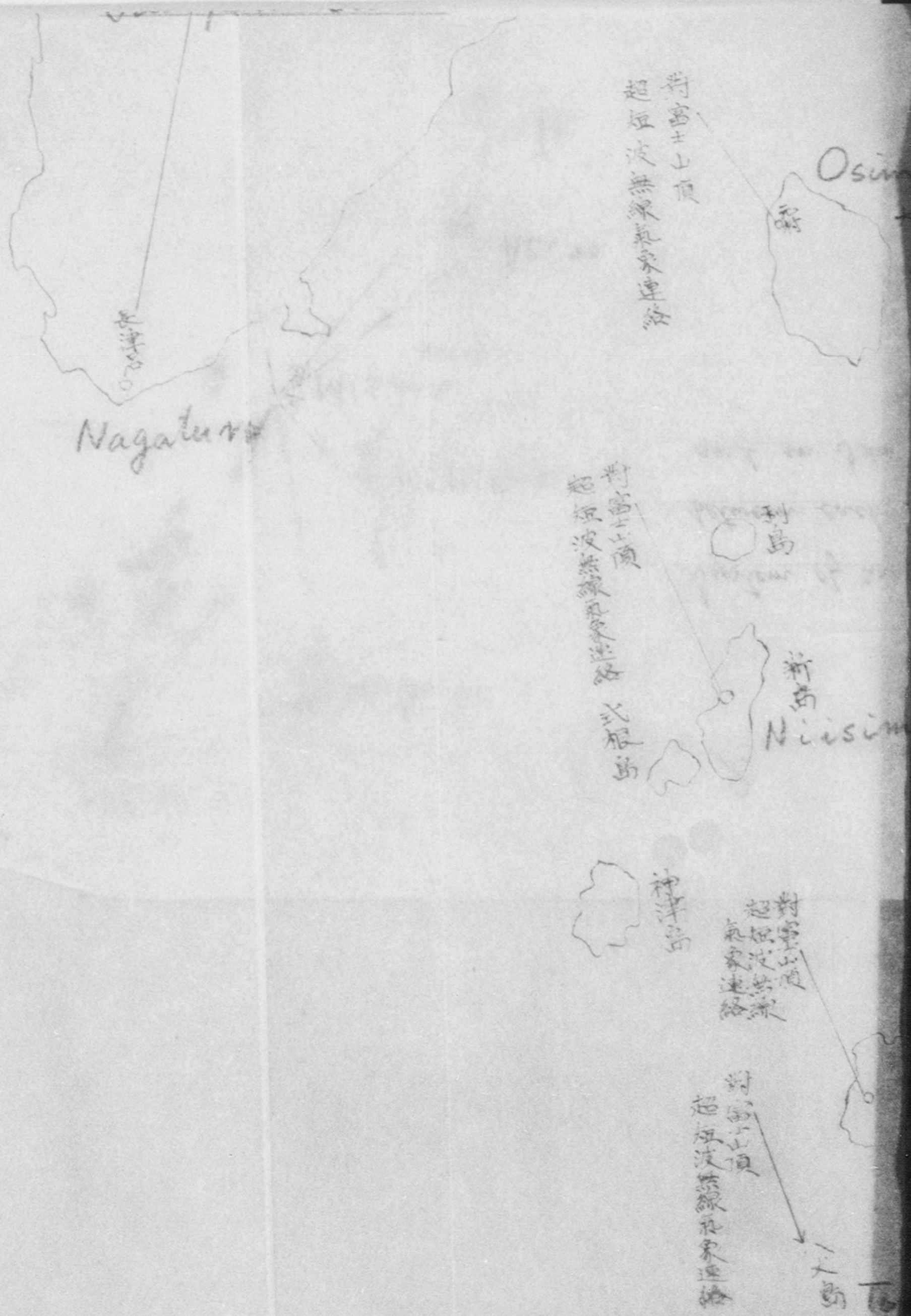

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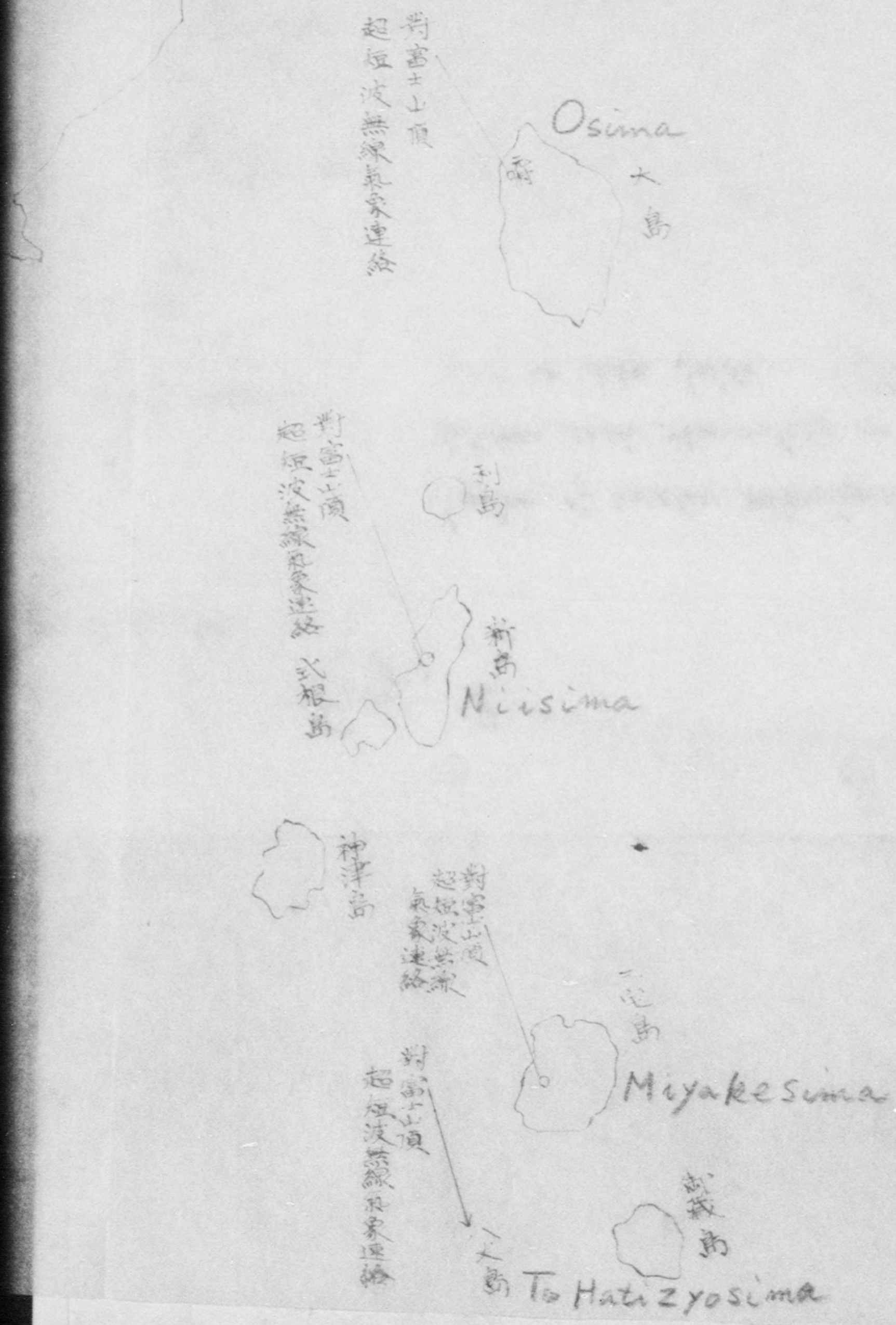

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Annex 7.

2ND NAVAL TECHNICAL INSTITUTE NUMAZU BRANCH
SHIMOTOGARI OFFICE

List of Communication Equipments

Item	Quantity	Location		Remarks
		Sending Station	Receiving Station	
MK-92 Special Receiver (K3)	3 (3)		3 (3)	
MK-92 Special Receiver (K4)	22 (24)	(1)	22 (23)	7 within the ones located in Receiving Station are being used Mishima meteorological Observatory.
MK-TM Handy Radio Transmitter	(2)		(2)	Turned over to the Allied Forces on Feb. 21, 1946.
MK-92 Transmitter (Type 4)	3 (3)	3 (3)		The metres & transformers of all are damaged and cannot be used.
MK-92 Distributing Panel (Type 4)	2 (3)	2 (2)		Damaged and aannot be use
MK-95 Transmitter (Type 5)	8 (8)	8 (8)		All damaged and cannot be used
MK-95 Distributing Panel (Type 5)	8 (8)	8 (8)		- " -
MK-TY Transmitter	1 (1)	1 (1)		Damaged and cannot be used.
Direct Current Motor: Generator (45 KW)	1 (1)	1 (1)		
MK-95 Direct Current Motor Generator (Type A)	8 (8)	8 (8)		
MK-95 Direct Current: Motor Generator (Type B)	8 (8)	8 (8)		
MK-95 Direct Current: Motor Generator (Type 4)	5 (5)	3 (3)	2 (2)	
Direct Current Motor: Generator	(2)	(2)		None.
Direct Current Motor Generator Distributing Panel	2 (2)	2 (2)		Meters damaged and cannot be used.
Wave Meter (Short) MK-99	1 (1)		1 (1)	

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Item	Quantity	Location: Sending Station	Location: Receiving Station	Remarks
Wave Filter	2 (4)		2 (4)	
Areil System	2 (2)	1 (1)	1 (1)	Wooden 4 poles Span wire
Imitation Antena (Short & long)	2 (2)		2 (2)	
Rectifier	7 (7)	2 (2)	5(5)	5 at the receiving station are being used by the Mishima Meteorological Observatory
Battery Charger	11(15)	(4)	11(11)	
Distributing Panel	6 (8)	(2)	6 (6)	
MK-1 Cord Writer	(2)		(2)	
Oil-filled Over Load Circuit Breaker	1 (1)	1 (1)		
Integrating Electric Watt Meter	1 (1)	1 (1)		
Vacuum Tube	62 (62)	28 (28)	34 (34)	

Remarks:
Figures within ( ) are those of the list when returned from the Allied Forces.

H. FURUYA

Director of
Temporary Investigate Dept.,
Shizuoka Pref.

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MISHIMA SECTIONAL OBSERVATORY
CENTRAL METEOROLOGICAL OBSERVATORY OF JAPAN

2 December 1946

SUBJECT : Report on Shimotogari Branch Office.

TO : Commanding Officer,
Shizuoka Mil Gov't Team.

With regard to above subject, we beg to report as follows :

1. Connection between the 2nd Naval Acoustic Ordnance Department and the Mishima Sectional Observatory of the Central Meteorological Observatory, at the end of the war.
   (a) No operational connections.
   (b) The Mishima Sectional Observatory suffering much from lack of wireless instruments, applied to the Director of the Acoustic Ordnance Department after the V.J. day(Oct. 1945) for the diversion of the Shimotogari Branch Office, simultaneously, applied for the diversion of the site and buildings for meteorological observations, as Annex 1.
   (c) The Director of the Acoustic Ordnance Department considered our application, as in Paragraph (b) appropriate, but at that time the ownership being passed over to the Japanese Government, made a verbal statement that he will take steps with the National Property Depart., of the Ministry of Finance, adding that he will exert his every effort when he had an opportunity to carry out their desire.

2. Progress after the V.J. day to date.
   (I) Course of diversion.
      (a) Have not received formal approval on the temporary use of state property.
      (b) In March 1946, the Military Installation Diversing Committee of the Ministry of Finance has approved the utilization of the Shimotogari Branch Office by the Central Meteorological Observatory, as Annex 2.
      (c) The Shimotogari Branch Office being under the custody of the Nagoya Administration Bureau of the Ministry of Finance, made an application to said bureau, as Annex 3.
      (d) At present, the property not yet released to the Japanese Government from the Occupational Forces, temporary use of the state property, has not been permitted.
   (II) Course of site and buildings.
      (a) After the V.J. day the Acoustic Ordnance Depart., appointed a custodian, stationed at a attached watch-man house of the Shimotogari Branch Office.
      (b) The custodian has been employed by the Mishima Sectional Observatory since June 1946 to date. (same person as mentioned in paragraph (a)).
      (c) Since May 1946 the employees of the Mishima Sectional Observatory has been on night duty in turns for the maintenance of the Shimotogari Branch Office, and since June 1946 their dependents are dwelling with them.
   (III) Condition of machineries.
      (a) Of the machineries remaining at the end of the war, some were stolen (some name unknown) and some were destroyed, but at present(as of 27 Nov. 1946) is, as Annex 7.
      (b) Building and equipments were heavyly damaged in the adjoining office. This is due to the distance between the Branch Office and the night watch-man's quarter, which is 600 meters and that the control of this installation was not sufficient until May 1946.
   (IV) Condition of site.
      (a) The immediate yard of the installation was cultivated by the neighboring war-sufferers and others after the V.J. day, but after October 1946,

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the area was split among the former cultivators and the above mentioned employees, and is still being cultivated. (All cultivations are temporary)

(b) The area of the adjoining office has been cultivated by the former owner, after it was bought the Navy as long as the situation permitted them, to date.

(c) There is an agreement between the Mishima Sectional Observatory and the cultivators of the adjoining office area, that whenever the former desires to use the cultivated area, the latter has no objection whatever.

(d) Since October 1946, part of the adjoining office area has been used by the Sectional Observatory to observe the connection between the weather and agricultural products.

3. Directives issued by the Occupational Forces.

(a) Memorandum from Maj. Godflay, Chief of the Meteorological Section, SCAP.
The original is in custody of the Central Meteorological Observatory, and it is simply stated that the wireless equipments of the Main and Branch Office may be used by the Central Meteorological Observatory.
Maj. Godflay has, on the 25th of November 1945, came to inspect this installation, in person, with an officer from the 64th FA, at that time occupying Mishima area, and the Director of the Central Meteorological Observatory.

(b) Memorandum from Maj. Pryber. (As Annex 4)
This was given on presenting the memorandum mentioned in paragraph (a), and the directions, which was addressed to the Imperial Japanese Government from General Headquarters SCAP, is as attached sheets No. land 2.

(c) According to the instructions received as in paragraph (b), the Central Meteorological Observatory, on requesting to Scientific Section SCAP through the Central Liaison Office, received a verbal answer, stating that the authorization in this case has been entrusted to the Japanese Government, so to negotiate with them, and no further progress was made to this day.

(d) The "Taking out permit" and receipt, which was issued by H. Shannon of the 64th Field Artillery (which occupied Mishima from 1945 to 1946) is as Annex 5 (a,b,).

4. Plans for future purpose.

(a) Enlargement of the Meteorological Wireless communication system.
The Mishima Sectional Observatory, being in a position to control the Fuji-summit and the Hakone-yama Observatory Stations, must wire and phone all meteorological data from these two observatory stations, through their private communication line, to the Central Meteorological Observatory.
They must also catch the meteorological wireless data from the Izu Islands(Oo-shima, Hachijo-jima, Miyake-jima, Tori-jima) at the summit of Mt. Fuji, and wire it directly to the Central Meteorological Observatory, otherwise, phone it by their private communication line through Mishima.

(b) Observation of clouds and aerial currents of the upperlayer.
To perform a precise two-spot-observation by using these Branch Office and the adjoining office, simultaneously, with the Mt. Fuji-summit observatory.

(c) Observation of the atmospheric electricity and the underground electric current.
Perform a simultaneous and solid observation with the Mt. Fuji-summit observatory on the electrical conditions of thunderclouds, measurements of the atmospheric electrical area and measurements of underground electric currents, which is caused by the terrestrial movements of the Fuji and Hakone volcanoes.

(d) Fulfill circumstances as a base of the Mt. Fuji-summit observatory station.

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Formerly, the Mt. Fuji-summit observatory was under the control of the Central Meteorological observatory, but undergoing many inconveniences from the point of dispatch and supply, since April 1945 they put this observatory station under the control of the Mishima Sectional Observatory. But to carry out their duty and to accomodate necessary personnel they are suffering much from lack of accomodation.

(e) To research the connection between the weather and the agricultural products in the upper regions, such as at the foot of Mt. Fuji and Hakone, it is necessary to compare them with those grown in the lower regions. No part of the land has been cultivated for the purpose of agricultural-meteorological research, as stated in paragraph 2(v) (d), above.

(f) Regarding this branch and adjoining office the Central Meteorological Observatory has instructed us with the "control plan" as Annex 6. (omit)

5. List of remaining equipments at present.

(a) Location outlay and building outlay. As attached map No. 2.

(b) List of machineries. As Annex No. 7.

Ikuo Fujimura

IKUO FUJIMURA
Director of the Mishima Sectional Observatory
for Dr. Sakuhei Fujihara
Director of the Central Meteorological Observatory of Japan.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

1 November 1945

Annex 1

MEMORANDUM FOR : Dai 2 Kaigun Gijitsu-sho, Onkyo-heiki-bu-cho.
(Head of the Department of Echo-sounding Facilities, 2nd Naval Technical Arsenal.)

From : Director, Mishima Meteorological Observatory of the Central Meteorological Observatory.

Subject : Re Transfer of the Shimotogari Branch.

We have been hitherto seeking a suitable site as a base for weather communication as well as an observing base for Mt. Fuji within this vicinity and found that your Shimotogari Branch is entirely fit for our need as based upon the following reasons, the like being otherwise deemed unobtainable.

We, hereupon, take the liberty to beg herewith your good office concerning the subject matter.

Further formal procedure will be made by Director of CMO through appropriate channels.

NOTE.

1) Reasons for transferring the facilities.

a) To improve our weather communication net-work between CMO, Tokyo, and Nagoya Region by means of relaying at the said Branch. Especially your note is invited to the fact that the matter was instructed by Gun Mu Ki Mitsu No. 200 in accordance with the order from the Allied Occupation Forces.

b) Because the facilities in the said Branch is extremely suitable for weather observation of, and communication by wireless and light signal with, Mt. Fuji, and we can find none the like otherwise. Especially the fact that there is an about 500 m. long base line between its transmitting station and receiving station is an otherwise unobtainable best condition for our precise observation of heights and locations in Rawin and Resond observation.

2) Main objects desired to be transferred:

a) All real estates intact as of their present condition, with transmitting station, receiving station, grounds, all institutions, and establishments belonging thereto, etc..

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b) All installations intact as of their present condition, with transmitting apparatus, receiving apparatus, facilities of electric source, antennas, etc..

c) All equipments intact as of their present condition, with each equipment, repair and spare goods and articles, furnitures and utensils, watch-boxes, etc..

Further details concerning the matter will be decided upon your direct instruction on the actual spot.

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Annex 2

15 March 1946

Memorandum for : Central Meteorological Observatory, Ministry of Transportation.

From : Chief of the Department of State Property, Ministry of Finance.

Subject : Diversion of the Former Naval Equipments.

The temporary use of the Shimotogari Branch Factory, Former Second Naval Arsenal, which had been applicated by you, is authorized with the following conditions. Concerning the use of those equipments, it is desirable for you to applicate to the Nagoya Financial Bureau and receive the formal written sanction.

To receive the above-mentioned formal sanction, you must received the permission of the Allied Forces stationed there through the said Financial Bureau.

Conditions

1. It is authorized to use temporarily part or all of the former equipments within the limits necessary to the purpose you intend except those specially stated. The actual limits of the use is to be decided when the use is authorized. To use the land, buildings, structures, machines and implements including official residences and equipments for the wellfare-promotion of the personnel are permitted within the limits necessary to the purpose you intend, but the use of the machines is permitted until they are confiscated as reparations and you must take charge of them on your responsibility. The land for cultivation is expected not to be included.

2. The use of the above equipments is authorized for the time being and the final decision is reserved. Accordingly, if the equipments are not used properly, more adequate user of the equipments may be looked for after investigations.

3. In view of the shortage of foodstuffs and necessitated relief of air-raid sufferers, when there are land and buildings to spare, they may be used to receive those sufferers who wish to engage in cultivation. In such a case you must not make a protest against it.

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Annex. 3

To : Director of the Nagoya Finance Bureau.

From : Ikuo Huzimura, Director of the Misima Sectional Meteorological Observatory, for Dr. Sakuhei Fujiwhara, Director of the General Central Meteorological Observatory of Japan.

Subject : Temporary use of state property.

We beg for you to authorize the temporary use of the following state property, the location and survey maps of which are shown in the accompanying paper.

Note: 1. Location area and use of the object.

(a) Name. The Simotogari Branch and Detached Building, Department of Sound Arms, the former Second Navy Arsenal.

(b) Location. Branch (the former receiving station) No. 337, Minami Kobayasi, Ooka, Numazu City. Detached building (the former transmitting station) Nagakubo, Nagaizumi Mura, Sunto Gun Sizuoka Prefecture.

(c) Area. Branch about 1455 tubo. Two-storeyed wooden building. Total area 200 tubo.

(d) Former use. Laboratory of the department of sound Arms.

2. Reason for use

(a) Extension of weather wireless information net.

(b) Observation of cloud current in the upper layer, especially simultaneous observation of Mt. Huzi from two points: the Branch and Detached building.

(c) Operative base of the summit observatory of Mt. Huzi.

(d) Aerological research.

(e) Experimental study of industrial meteorology.

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3. Object and method

(a) Object See Paragraph 2.

(b) Method Technical methods necessary to make observation and so one are shown in Paragraph 2.

4. Period for use From the day notified to March 31, 1946.

5. Charge for use Free.

6. Others

(a) The above-mentioned Branch and Detached building were formerly Navy Wireless School, and wireless transmitting and receiving apparatus were equipped, so they are most suitable for Paragraph 2.a.

(b) The distance between the two buildings is 500 m, so it is especially suitable for Paragraph 2.b.

(c) The area of the site and buildings is suitable for Paragraph 2, c.d. and e. the detail is shown in the Application for the use.

(d) The area of the site and buildings is not exact, accordingly it is necessary to survey and make clear.

(e) Some of the materials and equipment were broken, so it is needful to repair them before they are used.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

3. Object and method

(a) Object See Paragraph 2.

(b) Method Technical methods necessary to make observation and so one are shown in Paragraph 2.

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(d) The area of the site and buildings is not exact, accordingly it is necessary to survey and make clear.

(e) Some of the materials and equipment were broken, so it is needful to repair them before they are used.

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Annex 4

HEAD QUARTERS
AVON 43D WEATHER WING
APO 710

8 March 1946

MEMORANDUM FOR : GCMG.

SUBJECT : Communication Equipment at Shimotogari Office, Sumazu.

1. Equipment to be used at stated locations under paragraph 2b of Technical Memorandum AG 000.93-Gc-#1, dated 27 October 1945, to carry orders under paragraph 9a of Memorandum for Imperial Japanese Government AG 000.93 (23 Feb 46) approved.

2. Requisition to be made to Scientific Section of SCAP through Central Liaison Office, Tokyo.

JEROME A PRYBER
Lt. Col., Air Corps
Commanding

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

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Attached sheets No. 1

GENERAL HEADQUARTERS
SUPREME COMMANDER FOR THE ALLIED POWERS

AG 000.93 (19 Nov. 45) GC-P

19, November 1945

MEMORANDUM FOR : IMPERIAL JAPANESE GOVERNMENT.
THROUGH : Central Liaison Office, Tokyo.
SUBJECT : Operation of Japanese Weather Service.

The Civil Weather Service of the Imperial Japanese Government will adopt technical operational procedure as outlined in SCAP Technical Memorandum -- AG 000.93 (19 Nov. 45) GC -- W 1, copies of which are inclosed.

FOR THE SUPREME COMMANDER:

H. W. ALLEN,
Colonel, A.G.D.
Asst. Adjutant General.

1 Incl :
Incl 1. 25 Copies SCAP Technical Memorandum AG 000.93 (19 Nov 45) GC-W 1.

Received : 22 Nov. 3.50 p.m.
Shukan : 3 Bu-2 ka (5 copies)
Copy : Somubucho

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

GENERAL HEADQUARTERS
SUPREME COMMANDER FOR THE ALLIED POWERS

TECHNICAL MEMORANDUM
AG 000.93-GC-WI

27 October 1945

OPERATION OF THE JAPANESE WEATHER SERVICE

1. The Weather Service of the Imperial Japanese Government will adopt the following code forms* in reporting surface weather observations:

a. At 0300Z, 0900Z, 1500Z, 2100Z:

$IIIC_LC_M$ $wwVhN_h$ DDFWN (00FF0) PPPTT UC_Happ
(99ppp) $T_sT_sDc//$ $7h_ch_cVV$

b. At 1200Z, 2400Z:

$IIIC_LC_M$ $wwVhN_h$ DDFWN (00FF0) PPPTT UC_Happ
(99ppp) $T_sT_sD_cT_n/_xT_n/_x$ $7h_ch_cVV$ $8R_sR_tRR$ (000R'R')

c. At 0600Z, 1800Z:

$IIIC_LC_M$ $wwVhN_h$ DDFWN (00FF0) PPPTT UC_Happ
(99ppp) $T_sT_sD_c//$ $7h_ch_cVV$ $8R_sR_tRR$ (000R'R')

d. At all other hours:

$IIIC_LC_M$ $wwVhN_h$ DDFWN PPPTT

2. a. Weather observatories, to prepare and transmit weather reports to Central Meteorological Observatory, Tokyo, in accordance with paragraph 1 a, b and c above, will be operated at the following locations:

	Index No.		Index No.
Hakodate	681	Kanazawa	274
Sapporo	686	Wazima	676
Wakkanai	321	Omaesaki	260

* Meaning of the code symbols used in paragraph 1 above are set forth in an adaptation of the 1942 Weather Code, Department of Commerce Weather Bureau, copies of which will be supplied to the Imperial Japanese Government.

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	Index No.		Index No.
Nemuro	683	Gihu	257
Kusiro	316	Sizuoka	262
Suttu	312	Owase	250
Abasiri	688	Kameyama	253
Sahorodake	314	Osaka	245
Kitami Esasi	320	Hukui	675
Haboro	687	Siomisaki	656
Sendai	665	Kyoto	247
Onahama	664	Sumoto	242
Akita	679	Miyazu	674
Miyaka	666	Hirosima	230
Aomori	680	Tottori	249
Zaosan	290	Hamada	231
Hatinohe	301	Simonoseki	667
Sirakawa	286	Yonago	236
Sakata	295	Takamatu	240
Tokyo	662	Murotomisaki	655
Niigata	677	Sukumo	220
Matumoto	271	Hukuoka	210
Nagano	284	Nagasaki	671
Osima	261	Miyazaki	653
Maebasi	282	Oita	213
Nantaisan	285	Makurazaki	201
Mito	283	Iwateyama	299
Iida	258	Asahikawa	319
Takada	287	Koti	223
Nagoya	254		

b. Weather observatories, to prepare and transmit hourly weather reports to the Central Meteorological Observatory, Tokyo, in accordance with paragraph 1 d above, will be operated at the following locations:

	Index No.		Index No.
Sapporo	686	Abasiri	688
Wakkanai	321	Sahorodake	314
Nemuro	683	Sendai	665
Kusiro	316	Onahama	664
Suttu	312	Akita	679
Miyako	666	Hukui	675
Aomori	680	Siomisaki	656
Zaosan	290	Kyoto	247
Sakata	295	Sumoto	242
Tokyo	662	Miyazu	674
Niigata	677	Hirosima	230
Matumoto	271	Tottori	249
Nagano	284	Hamada	231
Osima	261	Simonoseki	667
Maebasi	282	Yonago	236
Nantaisan	285	Takamatu	240

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	Index No.		Index No.
Iida	258	Koti	223
Takada	287	Murotomisaki	655
Kanazawa	274	Sukumo	220
Wazima	676	Hukuoka	210
Omaesaki	260	Nagasaki	671
Gihu	257	Miyazaki	653
Sizuoka	262	Oita	213
Owase	250	Makurazaki	201
Kameyama	253	Iwateyama	299
Osaka	245	Asahikawa	319

3. The Weather Service of the Imperial Japanese Government will adopt the following code form in reporting winds aloft observations:

a. At 1500Z, 1100Z, 1700Z, 2300Z:

IIIGG $H_f ddv_k v_k$ $H_f ddv_k v_k$ .... (9999n)

..... $H_f ddv_k v_k$ ..... etc.

b. These messages will include the following levels as available:

(1) Standard levels: 1000, 2000, 5000, 10000, 20000, 30000 feet.

(2) Levels at which significant wind changes are encountered:

(a) Direction changes by more than 25° with speeds in excess of 5 knots.

(b) Direction changes by more than 45° with wind speeds less than 5 knots.

(c) Winds speeds change by more than 5 knots.

(3) The highest level (to nearest 1000 feet) at which observations are obtained. The separate code groups for the standard and significant thousand feet levels will be indicated by a single figure, H_f, (e.g. 0 for surface, 10000, 20000, 30000, etc. levels; 2 for 2000, 12000, 22000, etc.; 5 for 5000, 15000, 25000 feet levels, etc.).

(4) dd is wind direction to nearest ten degrees from North.

(5) $v_k v_k$ is wind velocity in knots.

(6) The group 9999n is to be inserted when observations are missing for any standard level The figure "n" will refer to the tens of thousands of feet of the height, H_f, in the succeeding group. Thus, if the 30000 feet group for $H_f ddv_k v_k$

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was missing and the data for the 35000 feet was available, the group 99993 would be included immediately before the group referring to the data for the 35000 foot level.

4. Weather observatories, to prepare and transmit winds aloft reports to the Central Meteorological Observatory, Tokyo, in accordance with paragraph 3 above, will be operated at the following locations:

	Index No.		Index No.
Sapporo	686	Wajima	676
Wakkanai	321	Tokyo	662
Nemuro	683	Sizuoka	262
Urakawa	682	Osaka	245
Aomori	680	Yonago	236
Akita	679	Nagoya	254
Iwateyama	299	Siomisaki	656
Sendai	665	Koti	223
Niigata	677	Hukuoka	210
Maebasi	282	Kagoshima	652

5. Atmospheric soundings taken by means of radiosondes will be prepared and transmitted daily to the Central Meteorological Observatory.

a. Soundings will be taken at the following points:

Tokyo	662
Kagoshima	652
Siomisaki	656
Yonago	236
Wajima	676
Akita	679
Urakawa	682
Wakkanai	321
Aomori	680
Sendai	665
Hukuoka	210
Sapporo	686

b. Code form for the transmission of radiosonde data will be as follows:

(1) The standard or basic section:

IIIGG $P_0P_0'P_0''T_0T_0$ $U_0U_0x_1x_2x_3$ (Oddvv) $P_1P_1'h_1h_1h_1$

$T_1T_1U_1u_1'u_1'$ (Oddvv) $P_2P_2'h_2h_2h_2$ $T_2T_2U_2u_2'u_2'$ (Oddvv)

....

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(2) The section for intermediate points or significant points follows the indicator 11199 inserted in the message:

11199 hhPP'P'' TTUu'u' hhPP'P'' TTUu'u' .....
.....

(3) The symbols above have the meanings listed below:

III - International index number of station.

GG - Time of beginning of ascent, nearest whole hour GCT.

$P_oP'_oP''_o$ - Pressure at surface, whole millibars. Note: The convention of writing P for hundreds place, P prime (P') for tens place, and P double prime (P'') for units place has been adopted and is used throughout.

T_oT_o - Temperature at surface, whole degrees Centigrade.

U_oU_o - Relative humidity at surface, whole per cent.

$x_1x_2x_3$ - Indicator figures to show units used and inclusion of wind groups (tables given in paragraph (4)):
x_1 for heights and temperatures.
x_2 for wind when reported.
x_3 for u'u'.

0 - Indicator figure for wind group (radio or radar wind) data in the wind group always applies to the level immediately preceding.

dd - Wind direction, tens of degrees.

vv - Wind speed. (See paragraph (5)(h) for wind speeds in excess of 99 knots).

$P_1P'_1$ - $P_2P'_2$ etc. Pressure (tens of millibars of the first (lowest), second, etc. pressure levels. 00 for 1000mb., 90 for 900 mb., 85 for 850, etc.

$h_1h_1h_1$ - $h_2h_2h_2$ etc. Height of $P_1P'_1$, $P_2P'_2$, etc. in tens of feet.

T_1T_1 - T_2T_2 etc. Temperature at P_1P_1, P_2P_2, etc. in whole whole degrees Centigrade.

u_1u_2 - etc., Relative humidity at P_1P_1, P_2P_2, etc.

$u'_1u'_1$ - $u'_2u'_2$, etc., Moisture values at P_1P_1, P_2P_2, etc.

11199 - Indicator, additional levels follow

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hh - Height of the level in hundreds of feet.

PP'P'' - Pressure at selected point in whole millibars.

TT - Temperature at selected point in whole degrees. Centigrade.

U - Relative humidity to tens of per cent.

u'u' - Moisture values at selected point in units according to x_3.

(4) Code tables for x_1, x_2, x_3 symbols follow:

(a) x_1 - Indicator for units of height and temperature.

0 - Feet and degrees Centigrade.

2 - Feet and degrees Fahrenheit.

4 - Meters and degrees Centigrade.

6 - Meters and degrees Fahrenheit.

7 - Heights not reported and degrees Centigrade.

8 - Heights not reported and degrees Fahrenheit.

(b) x_2 - Indicator for wind group.

0 - Winds not reported.

2 - Winds reported in miles per hour.

4 - Winds reported in knots.

6 - Winds reported in kilometers per hour.

8 - Winds reported in meters per second.

(c) x_3 - Indicator for u'u'.

0 - $m_r m_r$ (mixing ratio grams and tenths, tens figure omitted).

2 - $T_w T_w$ (temperature of wet bulb, whole degrees, Centigrade or Fahrenheit)

4 - $T_s T_s$ (temperature of dew point, whole degrees, Centigrade or Fahrenheit).

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6 - $_nT_n$ (depression of wet bulb in half degrees Centigrade or Fahrenheit).

(5) The following practices and conventions in the use of the above code will be followed:

(a) The temperature and moisture group (and wind group) for any pressure level will be omitted when the level is below the surface of the station. Omission of these groups will be clearly indicated by the negative value for height when the surface is below sea level (see paragraph 5b), by the value for surface pressure, and by the first two figures of the next group.

(b) To report heights below sea level, the convention of adding 500 to the code figures (5000 to the actual value in feet) will be used. Example: If the height of the 1000 mb. surface is 1280 feet below sea level, 5000 is added and the figures 628 (128 plus 500) are coded for hhh.

(c) Temperature will be reported in whole degrees Centigrade with code 0 being used for x_1 (paragraph 5b(4)(a) above). The convention of adding 50 for negative values will apply. (For example: -2° coded as 52; -13° coded as 63; -55° coded as 05, etc.).

(d) Moisture content (u'u') will be reported as indicated by code 0 for x_3 (paragraph 5b(4)(c) above).

(e) The levels selected for the basic section will be the mandatory constant pressure levels, 1000, 850, 700, 500, 300, 200, and 100 millibars.

(f) The figures 9, 99, and 999 will be used for missing data in all positions except surface pressure. It is assumed that surface pressure will always be available.

(g) Wind data taken by means other than radio or radar direction means will not be included in the radiosonde report and the groups (0ddvv) will be omitted. When combined radio or radar wind and radiosonde ascents are made. code number 4 will be used for x_2 (paragraph 5b(4)(b) above) and wind data will be included for the mandatory constant puessure levels in the basic or standard section of the report.

(h) When winds are reported, the following convention will be used for reporting wind speeds in excess of 99 knots:

1. In the range 100 to 199. 50 is added to dd, and vv gives the actual speed minus 100. Example: A speed of 117 from the north (360 degrees) is coded 08617.

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2. In the range 200 to 299, the group 00200 is inserted immediately following the 0ddvv group, dd gives actual 10's of degrees and vv gives the actual speed minus 200. Example: A speed of 217 from the north (360 degrees) is coded 03617 00200.

3. In the range 300 to 399, the group 00200 is inserted immediately following the 0ddvv group, 50 is added to dd, and vv gives the actual speed minus 300. Example: A speed of 317 from the north (360 degrees) is coded 08617 00200.

(6) x_3 will be coded as 0 indicating that u'u' is reported in grams and tenths of water, tens being omitted.

(7) Ascents will be commenced daily at 0400Z and 1600Z.

6. The above reporting procedures will be adopted on 15 December 1945.

7. Weather reports received at the Central Meteorological Observatory, Tokyo, in accordance with the above directive will be broadcast at the times and on the frequencies currently authorized for weather broadcasts.

8. Index numbers other than the primary international index numbers for Asia applying to the Japan Area are from supplementary list number three, Japan Area, to Asia list. Index numbers required for stations not assigned a primary number from the Asia list and not assigned a supplementary number above, will be requested from this Headquarters.

FOR THE SUPREME COMMANDER:

H. W. Allen

H. W. ALLEN,
Colonel; A.G.D.,
Asst Adjutant General.

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Japan Area Supplementary List #3- Asia

INDEX NO.	STATION	LATITUDE	LONGITUDE	ELEVATION (M)
201	Makurazaki	31.16	130.18	32.5
210	Hukuoka	33.35	130.23	2.5
213	Oita	33.14	131.37	4.6
220	Sukumo	32.54	132.42	49.7
223	Koti	33.34	133.33	1.2
230	Hirosima	34.22	132.26	29.1
231	Hamada	34.54	132.04	18.0
236	Yonago	35.30	133.18	4.3
240	Takamatu	34.18	134.06	9.3
242	Sumuto	34.24	134.54	109.3
245	Osaka	34.39	135.32	6.7
247	Kyoto	35.01	135.44	41.5
249	Tottori	35.30	134.12	17.3
250	Owase	34.04	136.12	14.0
253	Kameyama	34.51	136.28	69.2
254	Nagoya	35.10	136.58	51.7
257	Gihu	35.24	136.46	12.8
258	Iida	35.31	137.50	481.8
260	Omaesaki	34.36	138.13	45.2
261	Osima	34.46	139.23	190.5
262	Sizuoka	34.58	138.24	13.5
271	Matumoto	36.15	137.68	610.0
274	Kanazawa	36.32	136.39	27.0
282	Maebasi	36.24	139.04	111.7
283	Mito	36.23	140.28	30.0
284	Nagano	36.40	138.12	418.1
285	Nantaisan	36.48	139.30	2479.9
286	Sirakawa	37.07	140.13	354.6
287	Takada	37.06	138.15	13.4
290	Zaosan	38.06	140.24	1760.0
295	Sakata	38.54	139.50	2.0
299	Iwateyama	39.51	141.01	1770.7
301	Hatinohe	40.32	141.32	27.4
312	Suttu	42.48	140.13	15.7
314	Sahorodake	43.12	142.48	1052.8
316	Kusiro	42.59	144.24	32.7
319	Ashahikawa	43.47	142.22	111.3
320	Kitami Esasi	44.54	142.36	6.1
321	Wakkanai	45.25	141.41	1.8

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Primary List of Index Numbers for Asia

INDEX NO.	STATTON	LATTTUDE	LONGTTUDE	ELEVATTON (F)
645	Ishigaki Shima	24.20	124.10	20
646	Miyako Shima	24.50	125.35	
647	Naha	26.12	127.39	92
648	Rasa Jima	24.25	131.15	
649	Minamioagarizima	25.51	131.14	
650	Naze	28.23	129.30	10
651	Yaku Shima	30.51	130.25	
652	Kagoshima	31.34	130.33	13
653	Miyazaki	31.55	131.26	23
654	Simidu	32.47	132.58	10
655	Murotomisaki	33.15	134.11	607
656	Siomisaki	33.27	135.46	240
657	Hamamatu	34.43	137.43	95
658	Tomisaki	34.55	139.50	40
659	Hachijo Shima	33.06	139.50	263
660	Titizima	27.05	142.11	10
661	Iwo Jima	30.48	141.18	
662	Tokyo	35.41	139.46	13
663	Chosi	35.44	140.51	61
664	Onahama	36.56	140.54	16
665	Sendai	38.16	140.54	125
666	Miyako	39.38	141.59	95
667	Simonoseki	33.57	130.56	151
668	Matuyama	33.50	132.45	102
669	Kobe	34.41	135.11	190
670	Tomie	32.37	128.46	89
671	Nagasaki	32.44	129.52	433
672	Ituhara	34.12	129.17	69
673	Matsue	35.26	133.04	
674	Miyazu	35.32	135.12	3
675	Hukui	36.03	136.13	33
676	Wajima	37.23	136.54	20
677	Niigata	37.56	139.03	23
678	Aikawa	38.02	138.14	144
679	Akita	39.43	140.06	30
680	Aomori	40.49	140.47	13
681	Hakodate	41.47	140.43	10
682	Urakawa	42.09	142.47	112
683	Nemuro	43.20	145.35	85
684na	Syana	45.14	147.53	125
685	Horonusiro	50.11	155.45	
686	Sapporo	43.04	141.21	49
687	Haboro	44.23	141.42	62
688	Abasiri	44.04	144.17	125
689	Odomari	46.39	142.46	118
690	Maoka	47.03	142.03	89

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Attached sheet No. 2

GENERAL HEADQUARTERS
SUPREME COMMANDER FOR THE ALLIED POWERS

AG 000.93 (23 Feb 46) GC
(SCAPIN -768)

APO 500
23 February 1946

MEMORANDUM FOR : IMPERIAL JAPANESE GOVERNMENT.

THROUGH : Central Liaison Office, Tokyo.

SUBJECT : Operation of Japanese Weather Service.

1. Technical Memorandum AG 000.93-GC-M1, enclosed with Memorandum for the Imperial Japanese Government, file AG 000.93 (19 Nov 45) GC-P, dated 19 November 1945, General Headquarters, Supreme Commander for the Allied Powers, subject as above, is amended as follows:

a. Change paragraph 3a to read as follows:

a. At 0400Z, 1000Z, 1600Z, 2200Z.

IIIGG $H_r$ddv$_k$v$_k$ $H_r$dd v$_k$v$_k$ ... ... (9999n)

... H_rd d v$_k$v$_k$ .... etc.

b. And paragraph 9. as follows:

"9. a. Hourly weather reports from the stations listed in paragraph 2b above and paragraph 1 of Memorandum for the Imperial Japanese Government, File No. AG000.93 (13 Jan 46) GC, subject: Operation of Government Meteorological Stations Located on Detached Islands, dated 13 January 1946, will be sent in sufficient time to arrive at the Central Meteorological Observatory, Tokyo, by forty-five (45) minutes after the hour of observation.

b. Hourly weather reports from weather stations received by the Central Meteorological Observatory will beprepared for transmission to the Army Airways Communications System radio station at Atago Hill, Tokyo, so as to arrive not later than fifty (50) minutes after the hour of observation."

FOR THE SUPREME COMMANDER:

Harold Fair
for
B.M.FITCH,
Brigadier General,AGD.
Adjutant General.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Annex 5.

19 Feb., 1946

Admit this man to the Shimotogari Radio Tng. Station to obtain rectifiers for radio receiver.

Donald H. Shannon
1st Lt., 64th FA

---

21 Feb., '46

Received 2 portable transmitters MK - TM 4 clocks, electric.

Donald H. Shannon
1st Lt., FA

This is to certify that K. NANUSE acted on orders from 64 Field Artillery Battalion H.Q.'s in and letting admittance to I sgt. / Beike

Removed 3 sets for experimental purpose _____.

No action of any type will be taken against above Japanese personnel.

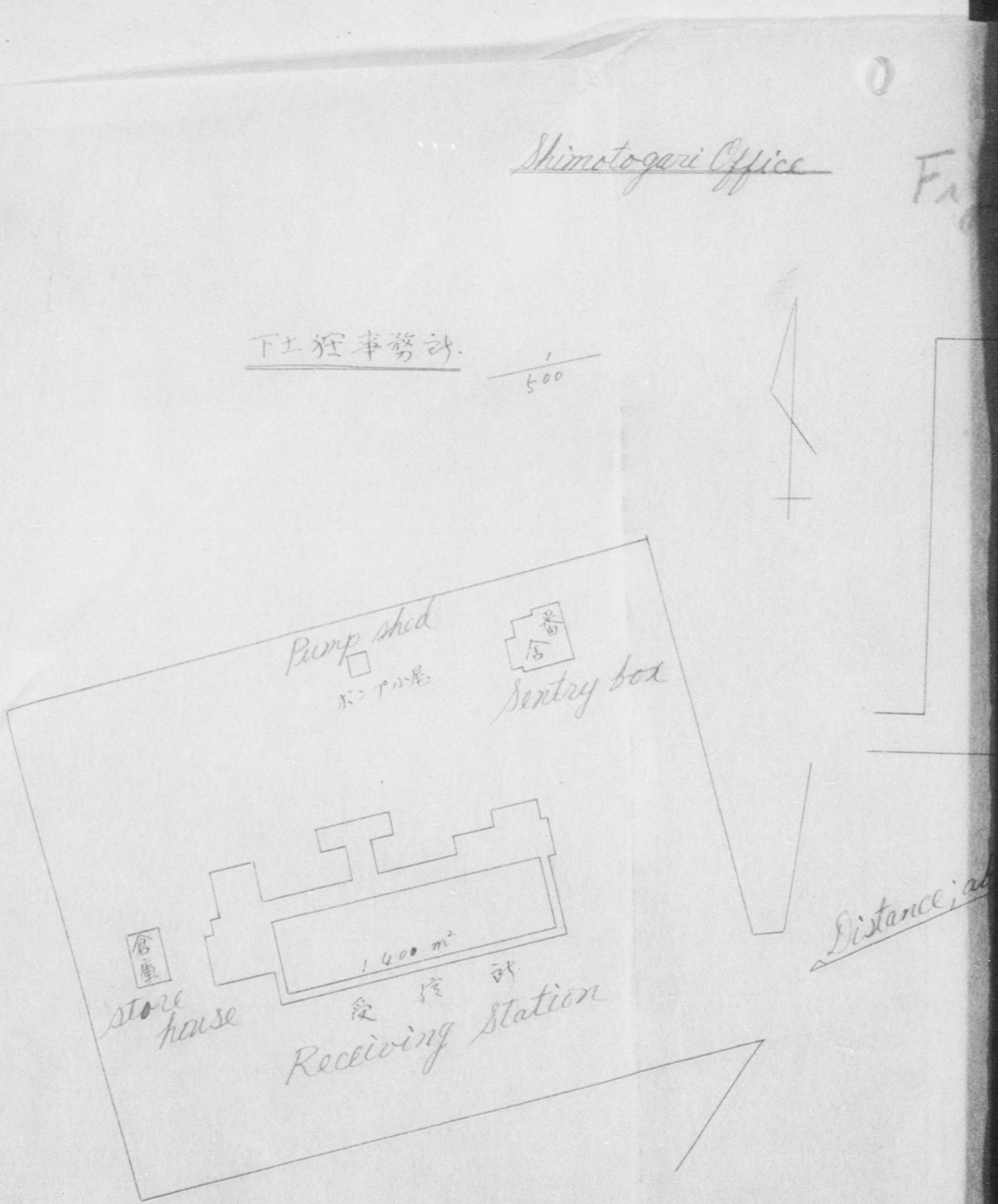
T/sgt. Beike.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Shimotogari Office

下土狩事務所

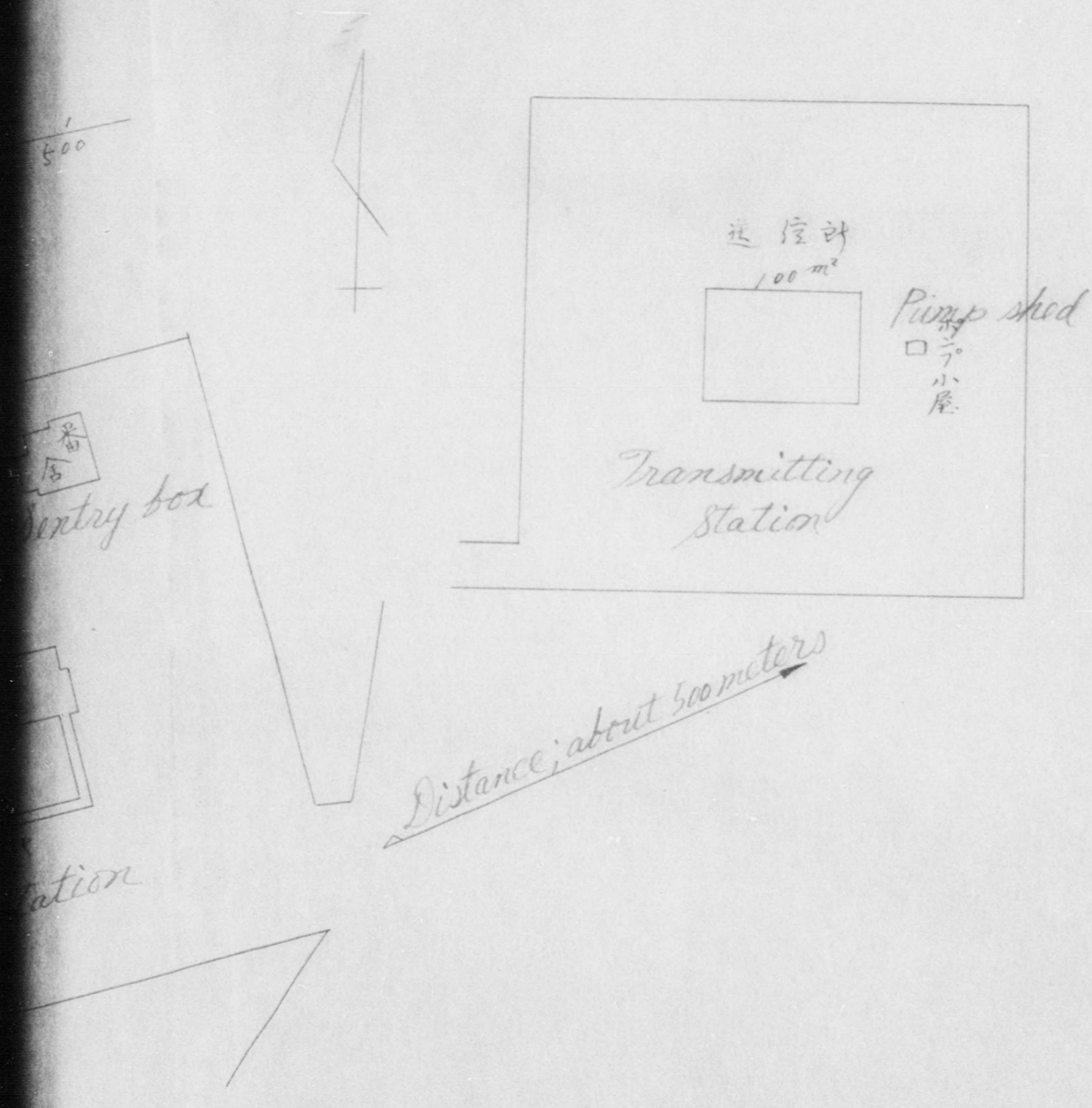
1/500



DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Shimotogari Office

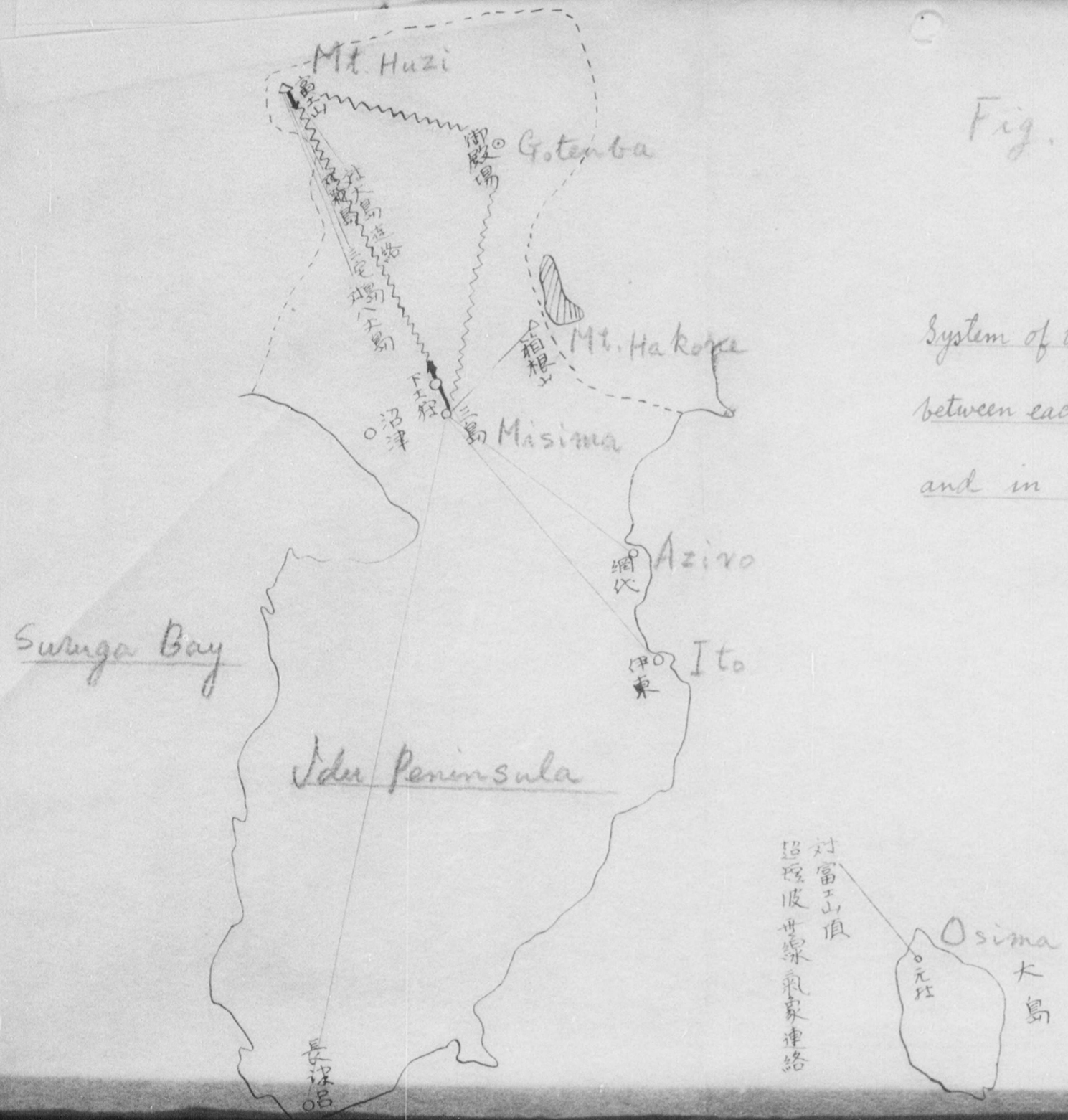
Fig 1



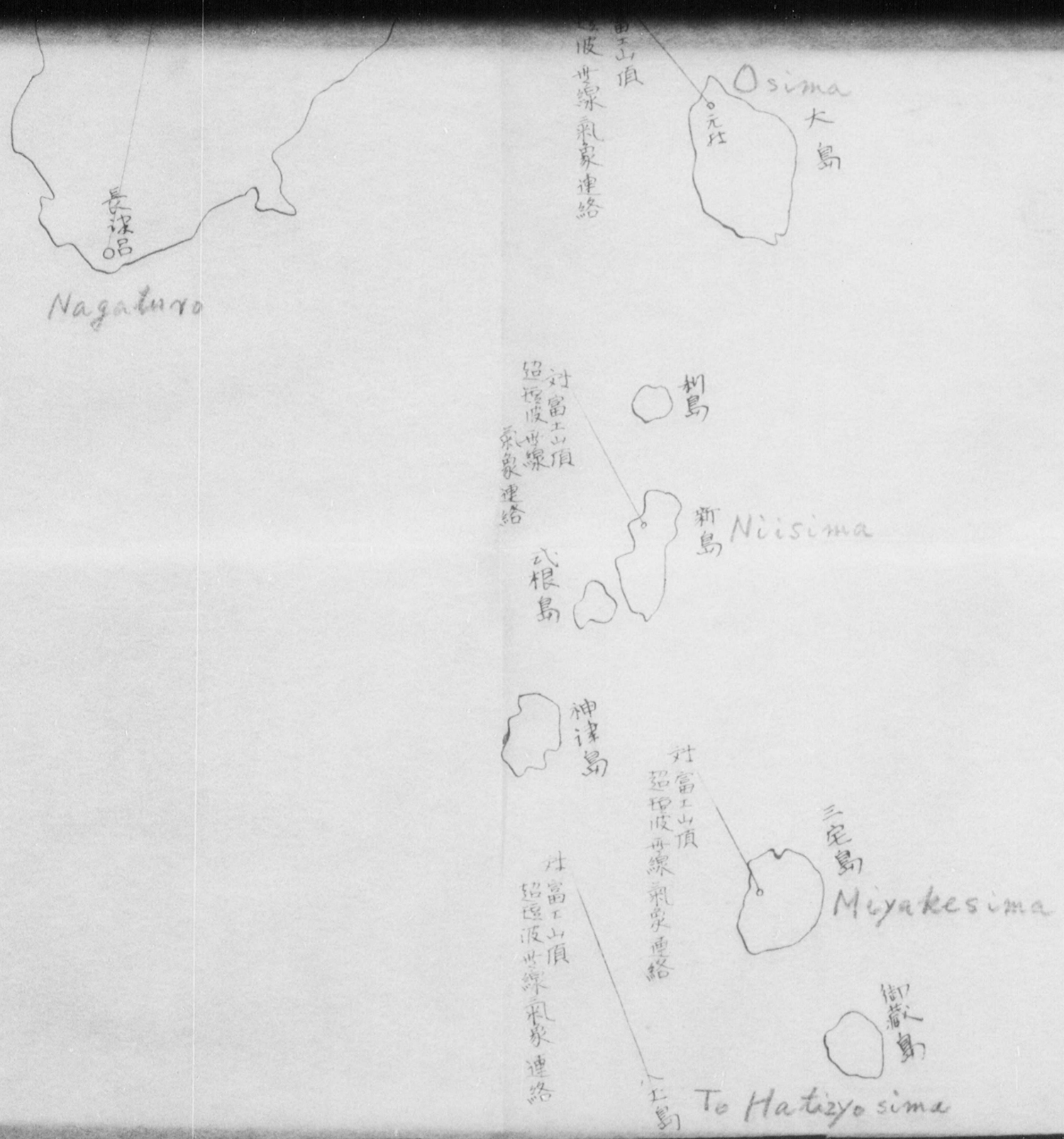
DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Fig. 2

System of wireless meteorological communication between each observatory in Idu Peninsula and in Idu Islds (Plan)



DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013



DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Annex 7

2ND NAVAL TECHNICAL INSTITUTE NUMAZU BRANCH
SHIMOTOGARI OFFICE

List of Communication Equipments

Item	Quantity	Location		Remarks
		Sending Station	Receiving Station	
MK-92 Special Receiver (K3)	3 (3)		3 (3)	
MK-92 Special Receiver (K4)	22 (24)	(1)	22 (23)	7 within the ones located in Receiving Station are being used Mishima meteorological Observatory.
MK-TM Handy Radio Transmitter	(2)		(2)	Turned over to the Allied Forces on Feb. 21, 1946.
MK-92 Transmitter (Type 4)	3 (3)	3 (3)		The metres & transformers of all are damaged and cannot be used.
MK-92 Distributing Panel (Type 4)	2 (3)	2 (2)		Damaged and cannot be use
MK-95 Transmitter (Type 5)	8 (8)	8 (8)		All damaged and cannot be used
MK-95 Distributing Panel (Type 5)	8 (8)	8 (8)		- " -
MK-TY Transmitter	1 (1)	1 (1)		Damaged and cannot be used.
Direct Current Motor: Generator (45 KW)	1 (1)	1 (1)		
MK-95 Direct Current Motor Generator (Type A)	8 (8)	8 (8)		
MK-95 Direct Current: Motor Generator (Type B)	8 (8)	8 (8)		
MK-95 Direct Current: Motor Generator (Type 4)	5 (5)	3 (3)	2 (2)	
Direct Current Motor: Generator	(2)	(2)		None.
Direct Current Motor Generator Distributing Panel	2 (2)	2 (2)		Meters damaged and cannot be used.
Wave Meter (Short) MK-99	1 (1)		1 (1)	

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Item	Quantity	Location		Remarks
		Sending Station	Receiving Station	
Wave Filter	2 (4)		2 (4)	
Areil System	2 (2)	1 (1)	1 (1)	Wooden 4 poles Span wire
Imitation Antena (Short & long)	2 (2)		2 (2)	
Rectifier	7 (7)	2 (2)	5(5)	5 at the receiving station are being used by the Mishima Meteorological Observatory
Battery Charger	11(15)	(4)	11(11)	
Distributing Panel	6 (8)	(2)	6 (6)	
MK-1 Cord Writer	(2)		(2)	
Oil-filled Over Load Circuit Breaker	1 (1)	1 (1)		
Integrating Electric Watt Meter	1 (1)	1 (1)		
Vacuum Tube	62 (62)	28 (28)	34 (34)	

Remarks:
Figures within ( ) are those of the list when returned from the Allied Forces.

H. FURUYA

Director of
Temporary Investigate Dept.,
Shizuoka Pref.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

MISHIMA SECTIONAL OBSERVATORY
CENTRAL METEOROLOGICAL OBSERVATORY OF JAPAN

2 December 1946

SUBJECT : Report on Shimotogari Branch Office.

TO : Commanding Officer,
Shizuoka Mil Gov't Team.

With regard to above subject, we beg to report as follows :

1. Connection between the 2nd Naval Acoustic Ordnance Department and the Mishima Sectional Observatory of the Central Meteorological Observatory, at the end of the war.
   (a) No operational connections.
   (b) The Mishima Sectional Observatory suffering much from lack of wireless instruments, applied to the Director of the Acoustic Ordnance Department after the V.J. day(Oct. 1945) for the diversion of the Shimotogari Branch Office, simultaneously, applied for the diversion of the site and buildings for meteorological observations, as Annex 1.
   (c) The Director of the Acoustic Ordnance Department considered our application, as in Paragraph (b) appropriate, but at that time the ownership being passed over to the Japanese Government, made a verbal statement that he will take steps with the National Property Depart., of the Ministry of Finance, adding that he will exert his every effort when he had an opportunity to carry out their desire.

2. Progress after the V.J. day to date.
   (I) Course of diversion.
      (a) Have not received formal approval on the temporary use of state property.
      (b) In March 1946, the Military Installation Diversing Committee of the Ministry of Finance has approved the utilization of the Shimotogari Branch Office by the Central Meteorological Observatory, as Annex 2.
      (c) The Shimotogari Branch Office being under the custody of the Nagoya Administration Bureau of the Ministry of Finance, made an application to said bureau, as Annex 3.
      (d) At present, the property not yet released to the Japanese Government from the Occupational Forces, temporary use of the state property, has not been permitted.
   (II) Course of site and buildings.
      (a) After the V.J. day the Acoustic Ordnance Depart., appointed a custodian, stationed at a attached watch-man house of the Shimotogari Branch Office.
      (b) The custodian has been employed by the Mishima Sectional Observatory since June 1946 to date. (same person as mentioned in paragraph (a)).
      (c) Since May 1946 the employees of the Mishima Sectional Observatory has been on night duty in turns for the maintenance of the Shimotogari Branch Office, and since June 1946 their dependents are dwelling with them.
   (III) Condition of machineries.
      (a) Of the machineries remaining at the end of the war, some were stolen (some name unknown) and some were destroyed, but at present(as of 27 Nov. 1946) is, as Annex 7.
      (b) Building and equipments were heavyly damaged in the adjoining office. This is due to the distance between the Branch Office and the night watch-man's quarter, which is 600 meters and that the control of this installation was not sufficient until May 1946.
   (IV) Condition of site.
      (a) The immediate yard of the installation was cultivated by the neighboring war-sufferers and others after the V.J. day, but after October 1946,

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the area was split among the former cultivators and the above mentioned employees, and is still being cultivated. (All cultivations are temporary)

(b) The area of the adjoining office has been cultivated by the former owner, after it was bought the Navy as long as the situation permitted them, to date.

(c) There is an agreement between the Mishima Sectional Observatory and the cultivators of the adjoining office area, that whenever the former desires to use the cultivated area, the latter has no objection whatever.

(d) Since October 1946, part of the adjoining office area has been used by the Sectional Observatory to observe the connection between the weather and agricultural products.

3. Directives issued by the Occupational Forces.

(a) Memorandum from Maj. Godflay, Chief of the Meteorological Section, SCAP.
The original is in custody of the Central Meteorological Observatory, and it is simply stated that the wireless equipments of the Main and Branch Office may be used by the Central Meteorological Observatory.
Maj. Godflay has, on the 25th of November 1945, came to inspect this installation, in person, with an officer from the 64th FA, at that time occupying Mishima area, and the Director of the Central Meteorological Observatory.

(b) Memorandum from Maj. Pryber. (As Annex 4)
This was given on presenting the memorandum mentioned in paragraph (a), and the directions, which was addressed to the Imperial Japanese Government from General Headquarters SCAP, is as attached sheets No. land 2.

(c) According to the instructions received as in paragraph (b), the Central Meteorological Observatory, on requesting to Scientific Section SCAP through the Central Liaison Office, received a verbal answer, stating that the authorization in this case has been entrusted to the Japanese Government, so to negotiate with them, and no further progress was made to this day.

(d) The "Taking out permit" and receipt, which was issued by H. Shannon of the 64th Field Artillery (which occupied Mishima from 1945 to 1946) is as Annex 5 (a,b,).

4. Plans for future purpose.

(a) Enlargement of the Meteorological Wireless communication system.
The Mishima Sectional Observatory, being in a position to control the Fuji-summit and the Hakone-yama Observatory stations, must wire and phone all meteorological data from these two observatory stations, through their private communication line, to the Central Meteorological Observatory.
They must also catch the meteorological wireless data from the Izu Islands(Oo-shima, Hachijo-jima, Miyake-jima, Tori-jima) at the summit of Mt. Fuji, and wire it directly to the Central Meteorological Observatory, otherwise, phone it by their private communication line through Mishima.

(b) Observation of clouds and aerial currents of the upperlayer.
To perform a precise two-spot-observation by using these Branch Office and the adjoining office, simultaneously, with the Mt. Fuji-summit observatory.

(c) Observation of the atmospheric electricity and the underground electric current.
Perform a simultaneous and solid observation with the Mt. Fuji-summit observatory on the electrical conditions of thunderclouds, measurements of the atmospheric electrical area and measurements of underground electric currents, which is caused by the terrestrial movements of the Fuji and Hakone volcanoes.

(d) Fulfill circumstances as a base of the Mt. Fuji-summit observatory station.
Formerly, the Mt. Fuji-summit observatory

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Formerly, the Mt. Fuji-summit observatory was under the control of the Central Meteorological observatory, but undergoing many inconveniences from the point of dispatch and supply, since April 1945 they put this observatory station under the control of the Mishima Sectional Observatory. But to carry out their duty and to accomodate necessary personnel they are suffering much from lack of accomodation.

(e) To research the connection between the weather and the agricultural products in the upper regions, such as at the foot of Mt. Fuji and Hakone, it is necessary to compare them with those grown in the lower regions. So part of the land has been cultivated for the purpose of agricultural-meteorological research, as stated in paragraph 2(IV)(d), above.

(f) Regarding this branch and adjoining office the Central Meteorological Observatory has instructed us with the "control plan" as Annex 6. (omit)

5. List of remaining equipments at present.

(a) Location outlay and building outlay. As attached map No. 2.

(b) List of machineries. As Annex No. 7.

Ikuo Fujimura

IKUO FUJIMURA
Director of the Mishima Sectional Observatory
for Dr. Sakuhei Fujihara
Director of the Central Meteorological Observatory of Japan.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Annex 1

1 November 1945

MEMORANDUM FOR : Dai 2 Kaigun Gijitsu-sho, Onkyo-heiki-bu-cho.
(Head of the Department of Echo-sounding Facilities,
2nd Naval Technical Arsenal.)

From : Director, Mishima Meteorological Observatory
of the Central Meteorological Observatory.

Subject : Re Transfer of the Shimotogari Branch.

We have been hitherto seeking a suitable site as a base for weather communication as well as an observing base for Mt. Fuji within this vicinity and found that your Shimotogari Branch is entirely fit for our need as based upon the following reasons, the like being otherwise deemed unobtainable.

We,hereupon, take the liberty to beg herewith your good office concerning the subject matter.

Further formal procedure will be made by Director of CMO through appropriate channels.

NOTE.

1) Reasons for transferring the facilities.

a) To improve our weather communication net-work between CMO, Tokyo, and Nagoya Region by means of relaying at the said Branch. Especially your note is invited to the fact that the matter was instructed by Gun Mu Ki Mitsu No. 200 in accordance with the order from the Allied Occupation Forces.

b) Because the facilities in the said Branch is extremely suitable for weather observation of, and communication by wireless and light signal with, Mt. Fuji, and we can find none the like otherwise. Especially the fact that there is an about 500 m. long base line between its transmitting station and receiving station is an otherwise unobtainable best condition for our precise observation of heights and locations in Rawin and Rasond observation.

2) Main objects desired to be transferred:

a) All real estates intact as of their present condition, with transmitting station, receiving station, grounds, all institutions, and establishments belonging thereto, etc..

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b) All installations intact as of their present condition, with transmitting apparatus, receiving apparatus, facilities of electric source, antennas, etc..

c) All equipments intact as of their present condition, with each equipment, repair and spare goods and articles, furnitures and utensils, watch-boxes, etc..

Further details concerning the matter will be decided upon your direct instruction on the actual spot.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Annex. 2

15 March 1946

Memorandum for : Central Meteorological Observatory, Ministry of Transportation.

From : Chief of the Department of State Property, Ministry of Finance.

Subject : Diversion of the Former Naval Equipments.

The temporary use of the Shimotogari Branch Factory, Former Second Naval Arsenal, which had been applicated by you, is authorized with the following conditions. Concerning the use of those equipments, it is desirable for you to applicate to the Nagoya Financial Bureau and receive the formal written sanction.

To receive the above-mentioned formal sanction, you must received the permission of the Allied Forces stationed there through the said Financial Bureau.

Conditions

1. It is authorized to use temporarily part or all of the former equipments within the limits necessary to the purpose you intend except those specially stated. The actual limits of the use is to be decided when the use is authorized. To use the land, buildings, structures, machines and implements including official residences and equipments for the wellfare-promotion of the personnel are permitted within the limits necessary to the purpose you intend, but the use of the machines is permitted until they are confiscated as reparations and you must take charge of them on your responsibility. The land for cultivation is expected not to be included.

2. The use of the above equipments is authorized for the time being and the final decision is reserved. Accordingly, if the equipments are not used properly, more adequate user of the equipments may be looked for after investigations.

3. In view of the shortage of foodstuffs and necessitated relief of air-raid sufferers, when there are land and buildings to spare, they may be used to receive those sufferers who wish to engage in cultivation. In such a case you must not make a protest against it.

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Annex 3

To : Director of the Nagoya Finance Bureau.

From : Ikuo Huzimura, Director of the Misima Sectional Meteorological Observatory, for Dr. Sakuhei Fujiwhara, Director of the General Central Meteorological Observatory of Japan.

Subject : Temporary use of state property.

We beg for you to authorize the temporary use of the following state property, the location and survey maps of which are shown in the accompanying paper.

Note: 1. Location area and use of the object.

(a) Name. The Simotogari Branch and Detached Building, Department of Sound Arms, the former Second Navy Arsenal.

(b) Location. Branch (the former receiving station) No. 337, Minami Kobayasi, Ooka, Numazu City. Detached building (the former transmitting station) Nagakubo, Nagaizumi Mura, Sunto Gun Sizucka Prefecture.

(c) Area. Branch about 1455 tubo. Two-storeyed wooden building. Total area 200 tubo.

(d) Former use. Laboratory of the department of sound Arms.

2. Reason for use

(a) Extension of weather wireless information net.

(b) Observation of cloud current in the upper layer, especially simultaneous observation of Mt. Huzi from two points: the Branch and Detached building.

(c) Operative base of the summit observatory of Mt. Huzi.

(d) Aerological research.

(e) Experimental study of industrial meteorology.

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3. Object and method

(a) Object See Paragraph 2.

(b) Method Technical methods necessary to make observation and so one are shown in Paragraph 2.

4. Period for use From the day notified to March 31, 1946.

5. Charge for use Free.

6. Others

(a) The above-mentioned Branch and Detached building were formerly Navy Wireless School, and wireless transmitting and receiving apparatus were equipped, so they are most suitable for Paragraph 2.a.

(b) The distance between the two buildings is 500 m, so it is especially suitable for Paragraph 2.b.

(c) The area of the site and buildings is suitable for Paragraph 2, c.d. and e. the detail is shown in the Application for the use.

(d) The area of the site and buildings is not exact, accordingly it is necessary to survey and make clear.

(e) Some of the materials and equipment were broken, so it is needful to repair them before they are used.

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Annex 4

HEADQUARTERS
AVCN 43D WEATHER WING
APO 710

8 March 1946

MEMORANDUM FOR : CCNO.

SUBJECT : Communication Equipment at Shimotogari Office, Numazu.

1. Equipment to be used at stated locations under paragraph 2b of Technical Memorandum AG 000.93-Gc-M1, dated 27 October 1945, to carry orders under paragraph 9a of Memorandum for Imperial Japanese Government AG 000.93 (23 Feb 46) approved.

2. Requisition to be made to Scientific Section of SCAP through Central Liaison Office, Tokyo.

JEROME A BRYMER
Lt. Col., Air Corps
Commanding

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Attached sheets No. 1

GENERAL HEADQUARTERS
SUPREME COMMANDER FOR THE ALLIED POWERS

AG 000.93 (19 Nov. 45) GC-P 19, November 1945

MEMORANDUM FOR : IMPERIAL JAPANESE GOVERNMENT.
THROUGH : Central Liaison Office, Tokyo.
SUBJECT : Operation of Japanese Weather Service.

The Civil Weather Service of the Imperial Japanese Government will adopt technical operational procedure as outlined in SCAP Technical Memorandum -- AG 000.93 (19 Nov. 45) GC -- W 1, copies of which are inclosed.

FOR THE SUPREME COMMANDER:

H. W. ALLEN,
Colonel, A.G.D.
Asst. Adjutant General.

1 Incl :
Incl 1. 25 Copies SCAP Technical Memorandum
AG 000.93 (19 Nov 45) GC-W 1.

Received : 22 Nov. 3.50 p.m.
Shukan : 3 Bu-2 ka (5 copies)
Copy : Somubucho

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

GENERAL HEADQUARTERS
SUPREME COMMANDER FOR THE ALLIED POWERS

TECHNICAL MEMORANDUM
AG 000.93-GC-WI

27 October 1945

OPERATION OF THE JAPANESE WEATHER SERVICE

1. The Weather Service of the Imperial Japanese Government will adopt the following code forms* in reporting surface weather observations:

a. At 0300Z, 0900Z, 1500Z, 2100Z:

$IIIC_LC_M$ $wwVhN_h$ DDFWN (00FF0) PPPTT UC_Happ

(99ppp) $T_sT_sDc//$ $7h_ch_cVV$

b. At 1200Z, 2400Z:

$IIIC_LC_M$ $wwVhN_h$ DDFWN (00FF0) PPPTT UC_Happ

(99ppp) $T_sT_sD_cT_n/_xT_n/_x$ $7h_ch_cVV$ $8R_sR_tRR$ (000R'R')

c. At 0600Z, 1800Z:

$IIIC_LC_M$ $wwVhN_h$ DDFWN (00FF0) PPPTT UC_Happ

(99ppp) $T_sT_sD_c//$ $7h_ch_cVV$ $8R_sR_tRR$ (000R'R')

d. At all other hours:

$IIIC_LC_M$ $wwVhN_h$ DDFWN PPPTT

2. a. Weather observatories, to prepare and transmit weather reports to Central Meteorological Observatory, Tokyo, in accordance with paragraph 1 a, b and c above, will be operated at the following locations:

	Index No.		Index No.
Hakodate	681	Kanazawa	274
Sapporo	686	Wazima	676
Wakkanai	321	Omaesaki	260

* Meaning of the code symbols used in paragraph 1 above are set forth in an adaptation of the 1942 Weather Code, Department of Commerce Weather Bureau, copies of which will be supplied to the Imperial Japanese Government.

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	Index No.
Nemuro	683
Kusiro	316
Suttu	312
Abasiri	688
Sahorodake	314
Kitami Esasi	320
Haboro	687
Sendai	665
Onahama	664
Akita	679
Miyaka	666
Aomori	680
Zaosan	290
Hatinohe	301
Sirakawa	286
Sakata	295
Tokyo	662
Niigata	677
Matumoto	271
Nagano	284
Osima	261
Maebasi	282
Nantaisan	285
Mito	283
Iida	258
Takada	287
Nagoya	254

	Index No.
Gihu	257
Sizuoka	262
Owase	250
Kameyama	253
Osaka	245
Hukui	675
Siomisaki	656
Kyoto	247
Sumoto	242
Miyazu	674
Hirosima	230
Tottori	249
Hamada	231
Simonoseki	667
Yonago	236
Takamatu	240
Murotomisaki	655
Sukumo	220
Hukuoka	210
Nagasaki	671
Miyazaki	653
Oita	213
Makurazaki	201
Iwateyama	299
Asahikawa	319
Koti	223

b. Weather observatories, to prepare and transmit hourly weather reports to the Central Meteorological Observatory, Tokyo, in accordance with paragraph 1 d above, will be operated at the following locations:

	Index No.
Sapporo	686
Wakkanai	321
Nemuro	683
Kusiro	316
Suttu	312
Miyako	666
Aomori	680
Zaosan	290
Sakata	295
Tokyo	662
Niigata	677
Matumoto	271
Nagano	284
Osima	261
Maebasi	282
Nantaisan	285

	Index No.
Abasiri	688
Sahorodake	314
Sendai	665
Onahama	664
Akita	679
Hukui	675
Siomisaki	656
Kyoto	247
Sumoto	242
Miyazu	674
Hirosima	230
Tottori	249
Hamada	231
Simonoseki	667
Yonago	236
Takamatu	240

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

	Index No.		Index No.
Iida	258	Koti	223
Takada	287	Murotomisaki	655
Kanazawa	274	Sukumo	220
Wazima	676	Hukuoka	210
Omaesaki	260	Nagasaki	671
Cihu	257	Miyazaki	653
Sizuoka	262	Oita	213
Owase	250	Makurazaki	201
Kameyama	253	Iwateyama	299
Osaka	245	Asahikawa	319

3. The Weather Service of the Imperial Japanese Government will adopt the following code form in reporting winds aloft observations:

a. At 1500Z, 1100Z, 1700Z, 2300Z:

IIIGG $H_f ddv_k v_k$ $H_f ddv_k v_k$ .... (9999n)

..... $H_f ddv_k v_k$ ..... etc.

b. These messages will include the following levels as available:

(1) Standard levels: 1000, 2000, 5000, 10000, 20000, 30000 feet.

(2) Levels at which significant wind changes are encountered:

(a) Direction changes by more than 25° with speeds in excess of 5 knots.

(b) Direction changes by more than 45° with wind speeds less than 5 knots.

(c) Winds speeds change by more than 5 knots.

(3) The highest level (to nearest 1000 feet) at which observations are obtained. The separate code groups for the standard and significant thousand feet levels will be indicated by a single figure, H_f, (e.g. 0 for surface, 10000, 20000, 30000, etc. levels; 2 for 2000, 12000, 22000, etc.; 5 for 5000, 15000, 25000 feet levels, etc.).

(4) dd is wind direction to nearest ten degrees from North.

(5) $v_k v_k$ is wind velocity in knots.

(6) The group 9999n is to be inserted when observations are missing for any standard level The figure "n" will refer to the tens of thousands of feet of the height, H_f, in the succeeding group. Thus, if the 30000 feet group for $H_f ddv_k v_k$

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was missing and the data for the 35000 feet was available, the group 99993 would be included immediately before the group referring to the data for the 35000 foot level.

4. Weather observatories, to prepare and transmit winds aloft reports to the Central Meteorological Observatory, Tokyo, in accordance with paragraph 3 above, will be operated at the following locations:

	Index No.		Index No.
Sapporo	686	Wajima	676
Wakkanai	321	Tokyo	662
Nemuro	683	Sizuoka	262
Urakawa	682	Osaka	245
Aomori	680	Yonago	236
Akita	679	Nagoya	254
Iwateyama	299	Siomisaki	656
Sendai	665	Koti	223
Niigata	677	Hukuoka	210
Maebasi	282	Kagoshima	652

5. Atmospheric soundings taken by means of radiosondes will be prepared and transmitted daily to the Central Meteorological Observatory.

a. Soundings will be taken at the following points:

Tokyo	662
Kagoshima	652
Siomisaki	656
Yonago	236
Wajima	676
Akita	679
Urakawa	682
Wakkanai	321
Aomori	680
Sendai	665
Hukuoka	210
Sapporo	686

b. Code form for the transmission of radiosonde data will be as follows:

(1) The standard or basic section:

IIIGG $P_0P_0'P_0''T_0T_0$ $U_0U_0x_1x_2x_3$ (Oddvv) $P_1P_1'h_1h_1h_1$

$T_1T_1U_1u_1'u_1'$ (Oddvv) $P_2P_2'h_2h_2h_2$ $T_2T_2U_2u_2'u_2'$ (Oddvv)

....

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(2) The section for intermediate points or significant points follows the indicator 11199 inserted in the message:

11199 hhPP'P'' TTUu'u' hhPP'P'' TTUu'u' .....
.....

(3) The symbols above have the meanings listed below:

III - International index number of station.

GG - Time of beginning of ascent, nearest whole hour GCT.

$P_oP'_oP''_o$ - Pressure at surface, whole millibars. Note: The convention of writing P for hundreds place, P prime (P') for tens place, and P double prime (P'') for units place has been adopted and is used throughout.

T_oT_o - Temperature at surface, whole degrees Centigrade.

U_oU_o - Relative humidity at surface, whole per cent.

$x_1x_2x_3$ - Indicator figures to show units used and inclusion of wind groups (tables given in paragraph (4)):
x_1 for heights and temperatures.
x_2 for wind when reported.
x_3 for u'u'.

O - Indicator figure for wind group (radio or radar wind) data in the wind group always applies to the level immediately preceding.

dd - Wind direction, tens of degrees.

vv - Wind speed. (See paragraph (5)(h) for wind speeds in excess of 99 knots).

$P_1P'_1$ - $P_2P'_2$ etc. Pressure (tens of millibars of the first (lowest), second, etc. pressure levels. 00 for 1000mb., 90 for 900 mb., 85 for 850, etc.

$h_1h_1h_1$ - $h_2h_2h_2$ etc. Height of $P_1P'_1$, $P_2P'_2$, etc. in tens of feet.

T_1T_1 - T_2T_2 etc. Temperature at P_1P_1, P_2P_2, etc. in whole whole degrees Centigrade.

u_1u_2 - etc., Relatiwe humidity at P_1P_1, P_2P_2, etc.

$u'_1u'_1$ - u'_2u_2, etc., Moisture values at P_1P_1, P_2P_2, etc.

11199 - Indicator, additional levels follow

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hh - Height of the level in hundreds of feet.

PP'P'' - Pressure at selected point in whole millibars.

TT - Temperature at selected point in whole degrees. Centigrade.

U - Relative humidity to tens of per cent.

u'u' - Moisture values at selected point in units according to x_3.

(4) Code tables for x_1, x_2, x_3 symbols follow:

(a) x_1 - Indicator for units of height and temperature.

0 - Feet and degrees Centigrade.

2 - Feet and degrees Fahrenheit.

4 - Meters and degrees Centigrade.

6 - Meters and degrees Fahrenheit.

7 - Heights not reported and degrees Centigrade.

8 - Heights not reported and degrees Fahrenheit.

(b) x_2 - Indicator for wind group.

0 - Winds not reported.

2 - Winds reported in miles per hour.

4 - Winds reported in knots.

6 - Winds reported in kilometers per hour.

8 - Winds reported in meters per second.

(c) x_3 - Indicator for u'u'.

0 - m_1m_r (mixing ratio grams and tenths, tens figure omitted).

2 - T_wT_w (temperature of wet bulb, whole degrees, Centigrade or Fahrenheit)

4 - T_sT_s (temperature of dew point, whole degrees, Centigrade or Fahrenheit).

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6 - $t_n t_n$ (depression of wet bulb in half degrees Centigrade or Fahrenheit).

(5) The following practices and conventions in the use of the above code will be followed:

(a) The temperature and moisture group (and wind group) for any pressure level will be omitted when the level is below the surface of the station. Omission of these groups will be clearly indicated by the negative value for height when the surface is below sea level (see paragraph 5b), by the value for surface pressure, and by the first two figures of the next group.

(b) To report heights below sea level, the convention of adding 500 to the code figures (5000 to the actual value in feet) will be used. Example: If the height of the 1000 mb. surface is 1280 feet below sea level, 5000 is added and the figures 628 (128 plus 500) are coded for hhh.

(c) Temperature will be reported in whole degrees Centigrade with code 0 being used for x_1 (paragraph 5b(4)(a) above). The convention of adding 50 for negative values will apply. (For example: -2° coded as 52; -13° coded as 63; -55° coded as 05, etc.).

(d) Moisture content (u'u') will be reported as indicated by code 0 for x_3 (paragraph 5b(4)(c) above).

(e) The levels selected for the basic section will be the mandatory constant pressure levels, 1000, 850, 700, 500, 300, 200, and 100 millibars.

(f) The figures 9, 99, and 999 will be used for missing data in all positions except surface pressure. It is assumed that surface pressure will always be available.

(g) Wind data taken by means other than radio or radar direction means will not be included in the radiosonde report and the groups (0ddvv) will be omitted. When combined radio or radar wind and radiosonde ascents are made. code number 4 will be used for x_2 (paragraph 5b(4)(b) above) and wind data will be included for the mandatory constant puessure levels in the basic or standard section of the report.

(h) When winds are reported, the following convention will be used for reporting wind speeds in excess of 99 knots:

1. In the range 100 to 199. 50 is added to dd, and vv gives the actual speed minus 100. Example: A speed of 117 from the north (360 degrees) is coded 08617.

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2. In the range 200 to 299, the group 00200 is inserted immediately following the Oddvv group, dd gives actual 10's of degrees and vv gives the actual speed minus 200. Example: A speed of 217 from the north (360 degrees) is coded 03617 00200.

3. In the range 300 to 399, the group 00200 is inserted immediately following the Oddvv group, 50 is added to dd, and vv gives the actual speed minus 300. Example: A speed of 317 from the north (360 degrees) is coded 08617 00200.

(6) x_3 will be coded as 0 indicating that u'u' is reported in grams and tenths of water, tens being omitted.

(7) Ascents will be commenced daily at 0400Z and 1600Z.

6. The above reporting procedures will be adopted on 15 December 1945.

7. Weather reports received at the Central Meteorological Observatory, Tokyo, in accordance with the above directive will be broadcast at the times and on the frequencies currently authorized for weather broadcasts.

8. Index numbers other than the primary international index numbers for Asia applying to the Japan Area are from supplementary list number three, Japan Area, to Asia list. Index numbers required for stations not assigned a primary number from the Asia list and not assigned a supplementary number above, will be requested from this Headquarters.

FOR THE SUPREME COMMANDER:

H. W. Allen

H. W. ALLEN,
Colonel, A.G.D.,
Asst Adjutant General.

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Japan Area Supplementary List #3- Assa

INDEX NO.	STATION	LATITUDE	LONGITUDE	ELEVATION (M)
201	Makurazaki	31.16	130.18	32.5
210	Hukuoka	33.35	130.23	2.5
213	Oita	33.14	131.37	4.6
220	Sukumo	32.54	132.42	49.7
223	Koti	33.34	133.33	1.2
230	Hirosima	34.22	132.26	29.1
231	Hamada	34.54	132.04	18.0
236	Yonago	35.30	133.18	4.3
240	Takamatu	34.18	134.06	9.3
242	Sumuto	34.24	134.54	109.3
245	Osaka	34.39	135.32	6.7
247	Kyoto	35.01	135.44	41.5
249	Tottori	35.30	134.12	17.3
250	Owase	34.04	136.12	14.0
253	Kameyama	34.51	136.28	69.2
254	Nagoya	35.10	136.58	51.7
257	Gihu	35.24	136.46	12.8
258	Iida	35.31	137.50	481.8
260	Omaesaki	34.36	138.13	45.2
261	Osima	34.46	139.23	190.5
262	Sizuoka	34.58	138.24	13.5
271	Matumoto	36.15	137.68	610.0
274	Kanazawa	36.32	136.39	27.0
282	Maebasi	36.24	139.04	111.7
283	Mito	36.23	140.28	30.0
284	Nagano	36.40	138.12	418.1
285	Nantaisan	36.48	139.30	2479.9
286	Sirakawa	37.07	140.13	354.6
287	Takada	37.06	138.15	13.4
290	Zaosan	38.06	140.24	1760.0
295	Sakata	38.54	139.50	2.0
299	Iwateyama	39.51	141.01	1770.7
301	Hatinohe	40.32	141.32	27.4
312	Suttu	42.48	140.13	15.7
314	Sahorodake	43.12	142.48	1052.8
316	Kusiro	42.59	144.24	32.7
319	Ashahikawa	43.47	142.22	111.3
320	Kitami Esasi	44.54	142.36	6.1
321	Wakkanai	45.25	141.41	1.8

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Primary List of Index Numbers for Asia

INDEX NO.	STATION	LATTITUDE	LONGTTUDE	ELEVATTON (F)
645	Ishigaki Shima	24.20	124.10	20
646	Miyako Shima	24.50	125.35	
647	Naha	26.12	127.39	92
648	Rasa Jima	24.25	131.15	
649	Minamioagarizima	25.51	131.14	
650	Naze	28.23	129.30	10
651	Yaku Shima	30.51	130.25	
652	Kagoshima	31.34	130.33	13
653	Miyazaki	31.55	131.26	23
654	Simidu	32.47	132.58	10
655	Murotomisaki	33.15	134.11	607
656	Siomisaki	33.27	135.46	240
657	Hamamatu	34.43	137.43	95
658	Tomisaki	34.55	139.50	40
659	Hachijo Shima	33.06	139.50	263
660	Titizima	27.05	142.11	10
661	Iwo Jima	30.48	141.18	
662	Tokyo	35.41	139.46	13
663	Chosi	35.44	140.51	61
664	Onahama	36.56	140.54	16
665	Sendai	38.16	140.54	125
666	Miyako	39.38	141.59	95
667	Simonoseki	33.57	130.56	151
668	Matuyama	33.50	132.45	102
669	Kobe	34.41	135.11	190
670	Tomie	32.37	128.46	89
671	Nagasaki	32.44	129.52	433
672	Ituhara	34.12	129.17	69
673	Matsue	35.26	133.04	
674	Miyazu	35.32	135.12	3
675	Hukui	36.03	136.13	33
676	Wajima	37.23	136.54	20
677	Niigata	37.56	139.03	23
678	Aikawa	38.02	138.14	144
679	Akita	39.43	140.06	30
680	Aomori	40.49	140.47	13
681	Hakodate	41.47	140.43	10
682	Urakawa	42.09	142.47	112
683	Nemuro	43.20	145.35	85
684na	Syana	45.14	147.53	125
685	Horonusiro	50.11	155.45	
686	Sapporo	43.04	141.21	49
687	Haboro	44.23	141.42	62
688	Abasiri	44.04	144.17	125
689	Odomari	46.39	142.46	118
690	Maoka	47.03	142.03	89

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Attached sheet
No. 2.

GENERAL HEADQUARTERS
SUPREME COMMANDER FOR THE ALLIED POWERS

AG 000.93 (23 Feb 46) GC
(SCAPIN -768)

APO 500
23 February 1946

MEMORANDUM FOR : IMPERIAL JAPANESE GOVERNMENT.

THROUGH : Central Liaison Office, Tokyo.

SUBJECT : Operation of Japanese Weather Service.

1. Technical Memorandum AG 000.93-GC-M1, enclosed with Memorandum for the Imperial Japanese Government, file AG 000.93 (19 Nov 45) GC-P, dated 19 November 1945, General Headquarters, Supreme Commander for the Allied Powers, subject as above, is amended as follows:

a. Change paragraph 3a to read as follows:

a. At 0400Z, 1000Z, 1600Z, 2200Z.

IIIGG $H_r ddv_k v_k$ $H_r dd\ v_k v_k$ ... ... (9999n)

... $H_r d\ d\ v_k v_k$ .... etc.

b. And paragraph 9. as follows:

"9. a. Hourly weather reports from the stations listed in paragraph 2b above and paragraph 1 of Memorandum for the Imperial Japanese Government, File No. AG000.93 (13 Jan 46) GC, subject: Operation of Government Meteorological Stations Located on Detached Islands, dated 13 January 1946, will be sent in sufficient time to arrive at the Central Meteorological Observatory, Tokyo, by forty-five (45) minutes after the hour of observation.

b. Hourly weather reports from weather stations received by the Central Meteorological Observatory will beprepared for transmission to the Army Airways Communications System radio station at Atago Hill, Tokyo, so as to arrive not later than fifty (50) minutes after the hour of observation."

FOR THE SUPREME COMMANDER:

Harold Fair
for
B.M.FITCH,
Brigadier General,AGD.
Adjutant General.

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Annex 5.

19 Feb., 1946

Admit this man to the Shimotogari Radio Tng. Station to obtain rectifiers for radio receiver.

Donald H. Shannon
1st Lt., 64th FA

---

21 Feb., '46

Received 2 portable transmitters MK - TM 4 clocks, electric.

Donald H. Shannon
1st Lt., FA

This is to certify that K. NARUSE acted on orders from 64 Field Artillery Battalion H.Q.'s in and letting admittance to I sgt. / Beike

Removed 3 sets for experimental purpose _____.

No action of any type will be taken against above Japanese personnel.

T/sgt. Beike.

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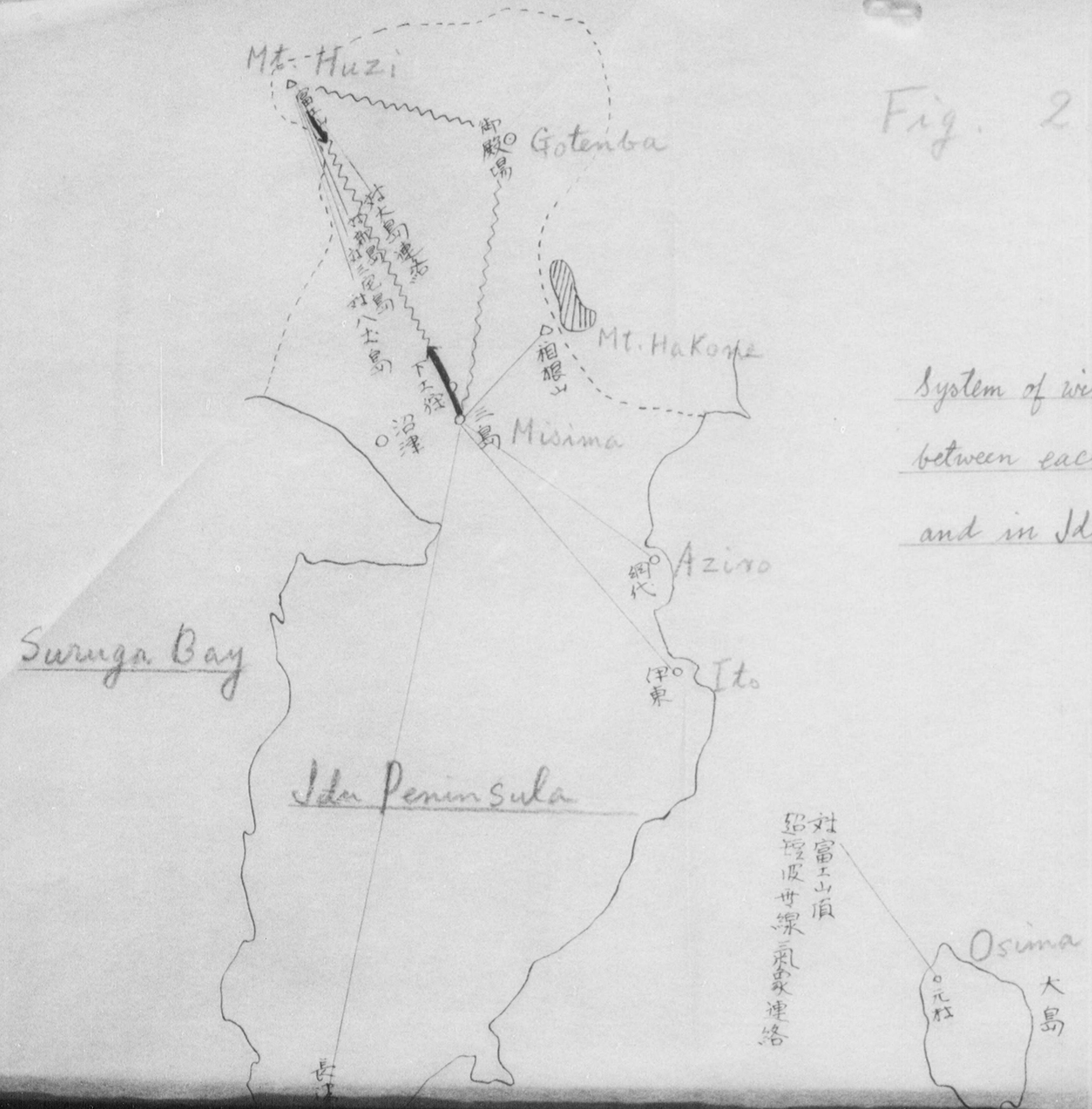
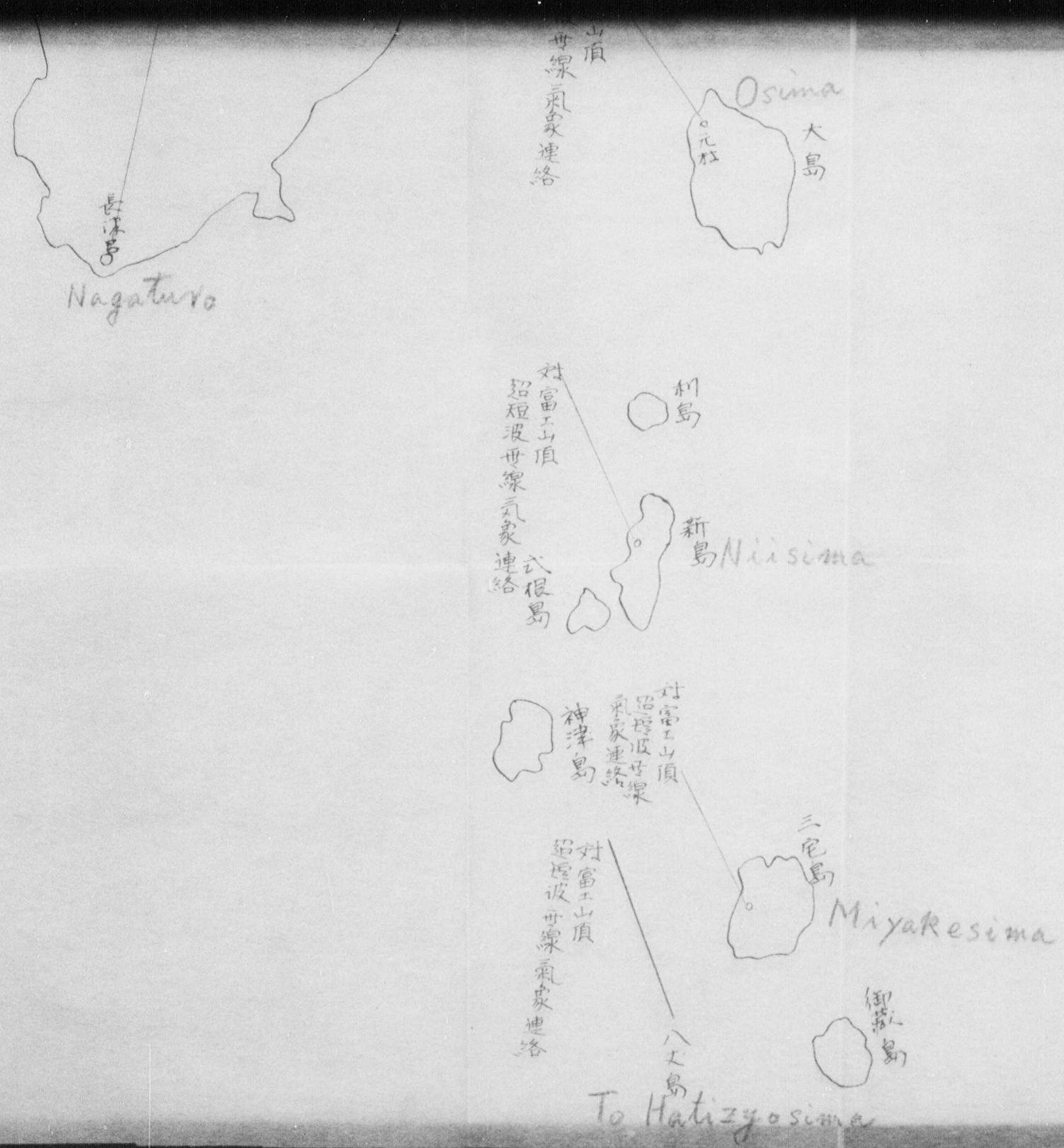
Fig. 2



System of wireless meteorological communication between each observatory in Izu Peninsula and in Izu Ilds. (Plan)



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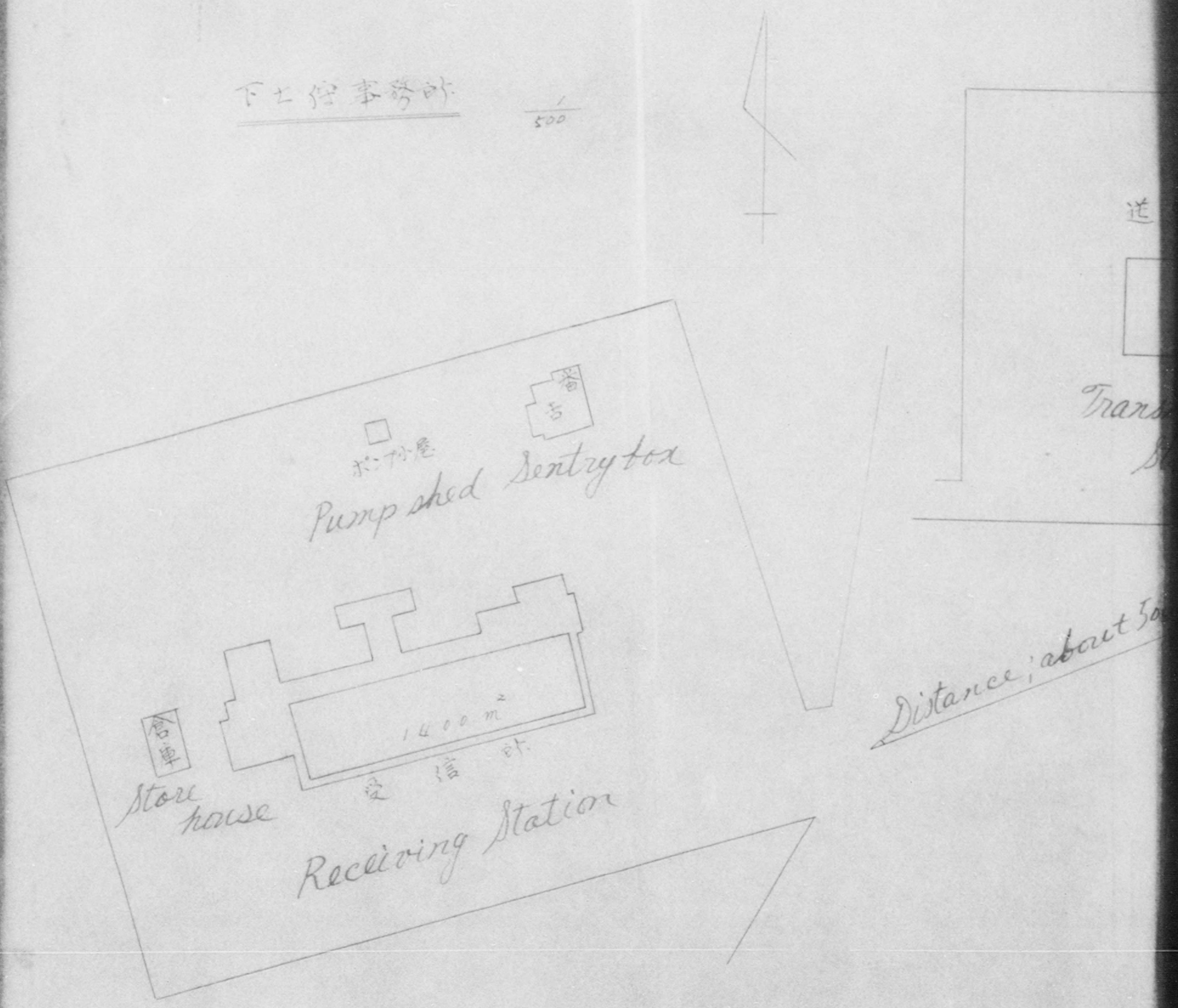
Shimotogari Office

Fig 1

下土倉事務所

1/500



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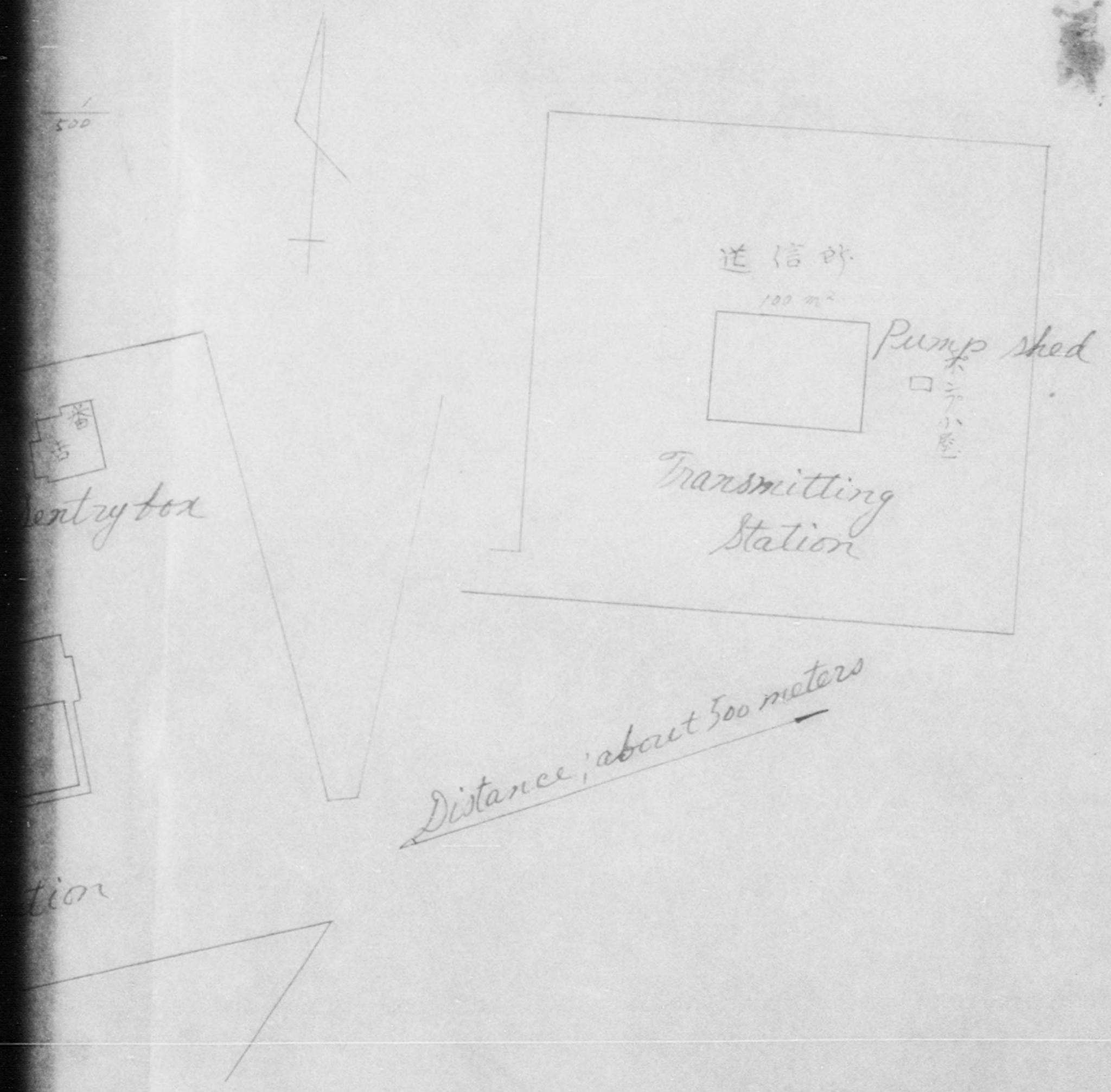
notogari Office

Fig 1



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Annex 7.

2ND NAVAL TECHNICAL INSTITUTE NUMAZU BRANCH
SHIMOTOGARI OFFICE

List of Communication Equipments

Item	Quantity	Location: Sending Station	Location: Receiving Station	Remarks
MK-92 Special Receiver (K3)	3 (3)		3 (3)	
MK-92 Special Receiver (K4)	22 (24)	(1)	22 (23)	7 within the ones located in Receiving Station are being used Mishima meteorological Observatory.
MK-TM Handy Radio Transmitter	(2)		(2)	Turned over to the Allied Forces on Feb. 21, 1946.
MK-92 Transmitter (Type 4)	3 (3)	3 (3)		The metres & transformers of all are damaged and cannot be used.
MK-92 Distributing Panel (Type 4)	2 (3)	2 (2)		Damaged and cannot be use
MK-95 Transmitter (Type 5)	8 (8)	8 (8)		All damaged and cannot be used
MK-95 Distributing Panel (Type 5)	8 (8)	8 (8)		- " -
MK-TY Transmitter	1 (1)	1 (1)		Damaged and cannot be used.
Direct Current Motor Generator (45 KW)	1 (1)	1 (1)		
MK-95 Direct Current Motor Generator (Type A)	8 (8)	8 (8)		
MK-95 Direct Current Motor Generator (Type B)	8 (8)	8 (8)		
MK-95 Direct Current Motor Generator (Type 4)	5 (5)	3 (3)	2 (2)	
Direct Current Motor Generator	(2)	(2)		None.
Direct Current Motor Generator Distributing Panel	2 (2)	2 (2)		Meters damaged and cannot be used.
Wave Meter (Short) MK-99	1 (1)		1 (1)	

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Item	Quantity	Location		Remarks
		Sending Station	Receiving Station	
Wave Filter	2 (4)		2 (4)	
Areil System	2 (2)	1 (1)	1 (1)	Wooden 4 poles Span wire
Imitation Antena (Short & long)	2 (2)		2 (2)	
Rectifier	7 (7)	2 (2)	5(5)	5 at the receiving station are being used by the Mishima Meteorological Observatory
Battery Charger	11(15)	(4)	11(11)	
Distributing Panel	6 (8)	(2)	6 (6)	
MK-1 Cord Writer	(2)		(2)	
Oil-filled Over Load Circuit Breaker	1 (1)	1 (1)		
Integrating Electric Watt Meter	1 (1)	1 (1)		
Vacuum Tube	62 (62)	28 (28)	34 (34)	

Remarks:
Figures within ( ) are those of the list when returned from the Allied Forces.

H. FURUYA

Director of
Temporary Investigate Dept.,
Shizuoka Pref.

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MISHIMA SECTIONAL OBSERVATORY
CENTRAL METEOROLOGICAL OBSERVATORY OF JAPAN

2 December 1946

SUBJECT : Report on Shimotogari Branch Office.

TO : Commanding Officer,
Shizuoka Mil Gov't Team.

With regard to above subject, we beg to report as follows :

1. Connection between the 2nd Naval Acoustic Ordnance Department and the Mishima Sectional Observatory of the Central Meteorological Observatory, at the end of the war.
   (a) No operational connections.
   (b) The Mishima Sectional Observatory suffering much from lack of wireless instruments, applied to the Director of the Acoustic Ordnance Department after the V.J. day(Oct. 1945) for the diversion of the Shimotogari Branch Office, simultaneously, applied for the diversion of the site and buildings for meteorological observations, as Annex 1.
   (c) The Director of the Acoustic Ordnance Department considered our application, as in Paragraph (b) appropriate, but at that time the ownership being passed over to the Japanese Government, made a verbal statement that he will take steps with the National Property Depart., of the Ministry of Finance, adding that he will exert his every effort when he had an opportunity to carry out their desire.

2. Progress after the V.J. day to date.
   (I) Course of diversion.
      (a) Have not received formal approval on the temporary use of state property.
      (b) In March 1946, the Military Installation Diversing Committee of the Ministry of Finance has approved the utilization of the Shimotogari Branch Office by the Central Meteorological Observatory, as Annex 2.
      (c) The Shimotogari Branch Office being under the custody of the Nagoya Administration Bureau of the Ministry of Finance, made an application to said bureau, as Annex 3.
      (d) At present, the property not yet released to the Japanese Government from the Occupational Forces, temporary use of the state property, has not been permitted.
   (II) Course of site and buildings.
      (a) After the V.J. day the Acoustic Ordnance Depart., appointed a custodian, stationed at a attached watch-man house of the Shimotogari Branch Office.
      (b) The custodian has been employed by the Mishima Sectional Observatory since June 1946 to date. (same person as mentioned in paragraph (a)).
      (c) Since May 1946 the employees of the Mishima Sectional Observatory has been on night duty in turns for the maintenance of the Shimotogari Branch Office, and since June 1946 their dependents are dwelling with them.
   (III) Condition of machineries.
      (a) Of the machineries remaining at the end of the war, some were stolen (some name unknown) and some were destroyed, but at present(as of 27 Nov. 1946) is, as Annex 7.
      (b) Building and equipments were heavyly damaged in the adjoining office. This is due to the distance between the Branch Office and the night watch-man's quarter, which is 600 meters and that the control of this installation was not sufficient until May 1946.
   (IV) Condition of site.
      (a) The immediate yard of the installation was cultivated by the neighboring war-sufferers and others after the V.J. day, but after October 1946,

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the area was split among the former cultivators and the above mentioned employees, and is still being cultivated. (All cultivations are temporary)

(b) The area of the adjoining office has been cultivated by the former owner, after it was bought the Navy as long as the situation permitted them, to date.

(c) There is an agreement between the Mishima Sectional Observatory and the cultivators of the adjoining office area, that whenever the former desires to use the cultivated area, the latter has no objection whatever.

(d) Since October 1946, part of the adjoining office area has been used by the Sectional Observatory to observe the connection between the weather and agricultural products.

3. Directives issued by the Occupational Forces.

(a) Memorandum from Maj. Godfray, Chief of the Meteorological Section, SCAP.
The original is in custody of the Central Meteorological Observatory, and it is simply stated that the wireless equipments of the Main and Branch Office may be used by the Central Meteorological Observatory.
Maj. Godfray has, on the 25th of November 1945, came to inspect this installation, in person, with an officer from the 64th FA, at that time occupying Mishima area, and the Director of the Central Meteorological Observatory.

(b) Memorandum from Maj. Fryber. (As Annex 4)
This was given on presenting the memorandum mentioned in paragraph (a), and the directions, which was addressed to the Imperial Japanese Government from General Headquarters SCAP, is as attached sheets No. land 2.

(c) According to the instructions received as in paragraph (b), the Central Meteorological Observatory, on requesting to Scientific Section SCAP through the Central Liaison Office, received a verbal answer, stating that the authorization in this case has been entrusted to the Japanese Government, so to negotiate with them, and no further progress was made to this day.

(d) The "Taking out permit" and receipt, which was issued by H. Shannon of the 64th Field Artillery (which occupied Mishima from 1945 to 1946) is as annex 5 (a,b,).

4. Plans for future purpose.

(a) Enlargement of the Meteorological Wireless communication system.
The Mishima Sectional Observatory, being in a position to control the Fuji-summit and the Hakone-yama Observatory stations, must wire and phone all meteorological data from these two observatory stations, through their private communication line, to the Central Meteorological Observatory.
They must also catch the meteorological wireless data from the Izu Islands(Oshima, Hachijo-jima, Miyake-jima, Tori-jima) at the summit of Mt. Fuji, and wire it directly to the Central Meteorological Observatory, otherwise, phone it by their private communication line through Mishima.

(b) Observation of clouds and aerial currents of the upperlayer.
To perform a precise two-spot-observation by using these Branch Office and the adjoining office, simultaneously, with the Mt. Fuji-summit observatory.

(c) Observation of the atmospheric electricity and the underground electric current.
Perform a simultaneous and solid observation with the Mt. Fuji-summit observatory on the electrical conditions of thunderclouds, measurements of the atmospheric electrical area and measurements of underground electric currents, which is caused by the terrestrial movements of the Fuji and Hakone volcanoes.

(d) Fulfill circumstances as a base of the Mt. Fuji-summit observatory station.

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Annex I.

1 November 1945

MEMORANDUM FOR : Dai 2 Kaigun Gijitsu-sho, Onkyo-heiki-bu-cho.
(Head of the Department of Echo-sounding Facilities, 2nd Naval Technical Arsenal.)

From : Director, Mishima Meteorological Observatory of the Central Meteorological Observatory.

Subject : Re Transfer of the Shimotogari Branch.

We have been hitherto seeking a suitable site as a base for weather communication as well as an observing base for Mt. Fuji within this vicinity and found that your Shimotogari Branch is entirely fit for our need as based upon the following reasons, the like being otherwise deemed unobtainable.

We, hereupon, take the liberty to beg herewith your good office concerning the subject matter.

Further formal procedure will be made by Director of CMO through appropriate channels.

NOTE.

1) Reasons for transferring the facilities.

a) To improve our weather communication net-work between CMO, Tokyo, and Nagoya Region by means of relaying at the said Branch. Especially your note is invited to the fact that the matter was instructed by Gun Mu Ki Mitsu No. 200 in accordance with the order from the Allied Occupation Forces.

b) Because the facilities in the said Branch is extremely suitable for weather observation of, and communication by wireless and light signal with, Mt. Fuji, and we can find none the like otherwise. Especially the fact that there is an about 500 m. long base line between its transmitting station and recieving station is an otherwise unobtainable best condition for our precise observation of heights and locations in Rawin and Rasond observation.

2) Main objects desired to be transferred:

a) All real estates intact as of their present condition, with transmitting station, receiving station, grounds, all institutions, and establishments belonging thereto, etc..

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b) All installations intact as of their present condition, with transmitting apparatus, receiving apparatus, facilities of electric source, antennas, etc..

c) All equipments intact as of their present condition, with each equipment, repair and spare goods and articles, furnitures and utensils, watch-boxes, etc..

Further details concerning the matter will be decided upon your direct instruction on the actual spot.

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Annex. 2

15 March 1946

Memorandum for : Central Meteorological Observatory, Ministry of Transportation.

From : Chief of the Department of State Property, Ministry of Finance.

Subject : Diversion of the Former Naval Equipments.

The temporary use of the Shimotogari Branch Factory, Former Second Naval Arsenal, which had been applicated by you, is authorized with the following conditions. Concerning the use of those equipments, it is desirable for you to applicate to the Negoya Financial Bureau and receive the formal written sanction.

To receive the above-mentioned formal sanction, you must received the permission of the Allied Forces stationed there through the said Financial Bureau.

Conditions

1. It is authorized to use temporarily part or all of the former equipments within the limits necessary to the purpose you intend except those specially stated. The actual limits of the use is to be decided when the use is authorized. To use the land, buildings, structures, machines and implements including official residences and equipments for the wellfare-promotion of the personnel are permitted within the limits necessary to the purpose you intend, but the use of the machines is permitted until they are confiscated as reparations and you must take charge of them on your responsibility. The land for cultivation is expected not to be included.

2. The use of the above equipments is authorized for the time being and the final decision is reserved. Accordingly, if the equipments are not used properly, more adequate user of the equipments may be looked for after investigations.

3. In view of the shortage of foodstuffs and necessitated relief of air-raid sufferers, when there are land and buildings to spare, they may be used to receive those sufferers who wish to engage in cultivation. In such a case you must not make a protest against it.

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Annex 3

To : Director of the Nagoya Finance Bureau.

From : Ikuo Huzimura, Director of the Misima Sectional Meteorological Observatory, for Dr. Sakuhei Fujiwhara, Director of the General Central Meteorological Observatory of Japan.

Subject : Temporary use of state property.

We beg for you to authorize the temporary use of the following state property, the location and survey maps of which are shown in the accompanying paper.

Note: 1. Location area and use of the object.

(a) Name. The Simotogari Branch and Detached Building, Department of Sound Arms, the former Second Navy Arsenal.

(b) Location. Branch (the former receiving station) No. 337, Minami Kobayasi, Ooka, Numazu City. Detached building (the former transmitting station) Nagakubo, Nagaizumi Mura, Sunto Gun Sizuoka Prefecture.

(c) Area. Branch about 1455 tubo. Two-storeyed wooden building. Total area 200 tubo.

(d) Former use. Laboratory of the department of sound Arms.

2. Reason for use

(a) Extension of weather wireless information net.

(b) Observation of cloud current in the upper layer, especially simultaneous observation of Mt. Huzi from two points: the Branch and Detached building.

(c) Operative base of the summit observatory of Mt. Huzi.

(d) Aerological research.

(e) Experimental study of industrial meteorology.

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3. Object and method

(a) Object See Paragraph 2.

(b) Method Technical methods necessary to make observation and so one are shown in Paragraph 2.

4. Period for use From the day notified to March 31, 1946.

5. Charge for use Free.

6. Others

(a) The above-mentioned Branch and Detached building were formerly Navy Wireless School, and wireless transmitting and receiving apparatus were equipped, so they are most suitable for Paragraph 2.a.

(b) The distance between the two buildings is 500 m, so it is especially suitable for Paragraph 2.b.

(c) The area of the site and buildings is suitable for Paragraph 2, c.d. and e. the detail is shown in the Application for the use.

(d) The area of the site and buildings is not exact, accordingly it is necessary to survey and make clear.

(e) Some of the materials and equipment were broken, so it is needful to repair them before they are used.

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Annex 4

HEAD QUARTERS
AVCN 43D WEATHER WING
APO 710

6 March 1946

MEMORANDUM FOR : GCMO.

SUBJECT : Communication Equipment as Photographic Office, Kumagya.

1. Equipment to be used at stated locations under paragraph 2b of Technical Memorandum AG 000.93-Sc-41, dated 27 October 1945, to carry orders under paragraph 9a of Memorandum for Imperial Japanese Government AG 000.93 (23 Feb 46) approved.

2. Requisition to be made to Scientific Section of SCAP through Central Liaison Office, Tokyo.

JERCAS A PRYSER
Lt. Col., Air Corps
Commanding

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Attached sheets No. 1

GENERAL HEADQUARTERS
SUPREME COMMANDER FOR THE ALLIED POWERS

AG 000.93 (19 Nov. 45) GC-P

19, November 1945

MEMORANDUM FOR : IMPERIAL JAPANESE GOVERNMENT.
THROUGH : Central Liaison Office, Tokyo.
SUBJECT : Operation of Japanese Weather Service.

The Civil Weather Service of the Imperial Japanese Government will adopt technical operational procedure as outlined in SCAP Technical Memorandum -- AG 000.93 (19 Nov. 45) GC -- W 1, copies of which are inclosed.

FOR THE SUPREME COMMANDER:

H. W. ALLEN,
Colonel, A.G.D.
Asst. Adjutant General.

1 Incl :
Incl 1. 25 Copies SCAP Technical Memorandum
AG 000.93 (19 Nov 45) GC-W 1.

Received : 22 Nov. 3.50 p.m.
Shukan : 3 Bu-2 ka (5 copies)
Copy : Somubucho

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

GENERAL HEADQUARTERS
SUPREME COMMANDER FOR THE ALLIED POWERS

TECHNICAL MEMORANDUM
AG 000.93-GC-WI

27 October 1945

OPERATION OF THE JAPANESE WEATHER SERVICE

1. The Weather Service of the Imperial Japanese Government will adopt the following code forms* in reporting surface weather observations:

a. At 0300Z, 0900Z, 1500Z, 2100Z:

$IIIC_LC_M$ $wwVhN_h$ DDFWN (00FF0) PPPTT UC_Happ

(99ppp) $T_sT_sDc//$ $7h_ch_cVV$

b. At 1200Z, 2400Z:

$IIIC_LC_M$ $wwVhN_h$ DDFWN (00FF0) PPPTT UC_Happ

(99ppp) $T_sT_sD_cT_n/_xT_n/_x$ $7h_ch_cVV$ $8R_sR_tRR$ (000R'R')

c. At 0600Z, 1800Z:

$IIIC_LC_M$ $wwVhN_h$ DDFWN (00FF0) PPPTT UC_Happ

(99ppp) $T_sT_sD_c//$ $7h_ch_cVV$ $8R_sR_tRR$ (000R'R')

d. At all other hours:

$IIIC_LC_M$ $wwVhN_h$ DDFWN PPPTT

2. a. Weather observatories, to prepare and transmit weather reports to Central Meteorological Observatory, Tokyo, in accordance with paragraph 1 a, b and c above, will be operated at the following locations:

	Index No.		Index No.
Hakodate	681	Kanazawa	274
Sapporo	686	Wazima	676
Wakkanai	321	Omaesaki	260

* Meaning of the code symbols used in paragraph 1 above are set forth in an adaptation of the 1942 Weather Code, Department of Commerce Weather Bureau, copies of which will be supplied to the Imperial Japanese Government.

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	Index No.
Nemuro	683
Kusiro	316
Suttu	312
Abasiri	688
Sahorodake	314
Kitami Esasi	320
Haboro	687
Sendai	665
Onahama	664
Akita	679
Miyaka	666
Aomori	680
Zaosan	290
Hatinohe	301
Sirakawa	286
Sakata	295
Tokyo	662
Niigata	677
Matumoto	271
Nagano	284
Osima	261
Maebasi	282
Nantaisan	285
Mito	283
Iida	258
Takada	287
Nagoya	254

	Index No.
Gihu	257
Sizuoka	262
Owase	250
Kameyama	253
Osaka	245
Hukui	675
Siomisaki	656
Kyoto	247
Sumoto	242
Miyazu	674
Hirosima	230
Tottori	249
Hamada	231
Simonoseki	667
Yonago	236
Takamatu	240
Murotomisaki	655
Sukumo	220
Hukuoka	210
Nagasaki	671
Miyazaki	653
Oita	213
Makurazaki	201
Iwateyama	299
Asahikawa	319
Koti	223

b. Weather observatories, to prepare and transmit hourly weather reports to the Central Meteorological Observatory, Tokyo, in accordance with paragraph 1 d above, will be operated at the following locations:

	Index No.
Sapporo	686
Wakkanai	321
Nemuro	683
Kusiro	316
Suttu	312
Miyako	666
Aomori	680
Zaosan	290
Sakata	295
Tokyo	662
Niigata	677
Matumoto	271
Nagano	284
Osima	261
Maebasi	282
Nantaisan	285

	Index No.
Abasiri	688
Sahorodake	314
Sendai	665
Onahama	664
Akita	679
Hukui	675
Siomisaki	656
Kyoto	247
Sumoto	242
Miyazu	674
Hirosima	230
Tottori	249
Hamada	231
Simonoseki	667
Yonago	236
Takamatu	240

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	Index No.		Index No.
Iida	258	Koti	223
Takada	287	Murotomisaki	655
Kanazawa	274	Sukumo	220
Wazima	676	Hukuoka	210
Omaesaki	260	Nagasaki	671
Gihu	257	Miyazaki	653
Sizuoka	262	Oita	213
Owase	250	Makurazaki	201
Kameyama	253	Iwateyama	299
Osaka	245	Asahikawa	319

3. The Weather Service of the Imperial Japanese Government will adopt the following code form in reporting winds aloft observations:

a. At 1500Z, 1100Z, 1700Z, 2300Z:

IIIGG $H_f ddv_k v_k$ $H_f ddv_k v_k$ .... (9999n)

..... $H_f ddv_k v_k$ ..... etc.

b. These messages will include the following levels as available:

(1) Standard levels: 1000, 2000, 5000, 10000, 20000, 30000 feet.

(2) Levels at which significant wind changes are encountered:

(a) Direction changes by more than 25° with speeds in excess of 5 knots.

(b) Direction changes by more than 45° with wind speeds less than 5 knots.

(c) Winds speeds change by more than 5 knots.

(3) The highest level (to nearest 1000 feet) at which observations are obtained. The separate code groups for the standard and significant thousand feet levels will be indicated by a single figure, H_f, (e.g. 0 for surface, 10000, 20000, 30000, etc. levels; 2 for 2000, 12000, 22000, etc.; 5 for 5000, 15000, 25000 feet levels, etc.).

(4) dd is wind direction to nearest ten degrees from North.

(5) $v_k v_k$ is wind velocity in knots.

(6) The group 9999n is to be inserted when observations are missing for any standard level The figure "n" will refer to the tens of thousands of feet of the height, H_f, in the succeeding group. Thus, if the 30000 feet group for $H_f ddv_k v_k$

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was missing and the data for the 35000 feet was available, the group 99993 would be included immediately before the group referring to the data for the 35000 foot level.

4. Weather observatories, to prepare and transmit winds aloft reports to the Central Meteorological Observatory, Tokyo, in accordance with paragraph 3 above, will be operated at the following locations:

	Index No.		Index No.
Sapporo	686	Wajima	676
Wakkanai	321	Tokyo	662
Nemuro	683	Sizuoka	262
Urakawa	682	Osaka	245
Aomori	680	Yonago	236
Akita	679	Nagoya	254
Iwateyama	299	Siomisaki	656
Sendai	665	Koti	223
Niigata	677	Hukuoka	210
Maebasi	282	Kagoshima	652

5. Atmospheric soundings taken by means of radiosondes will be prepared and transmitted daily to the Central Meteorological Observatory.

a. Soundings will be taken at the following points:

Tokyo	662
Kagoshima	652
Siomisaki	656
Yonago	236
Wajima	676
Akita	679
Urakawa	682
Wakkanai	321
Aomori	680
Sendai	665
Hukuoka	210
Sapporo	686

b. Code form for the transmission of radiosonde data will be as follows:

(1) The standard or basic section:

IIIGG $P_0P_0'P_0''T_0T_0$ $U_0U_0x_1x_2x_3$ (Oddvv) $P_1P_1'h_1h_1h_1$

$T_1T_1U_1u_1'u_1'$ (Oddvv) $P_2P_2'h_2h_2h_2$ $T_2T_2U_2u_2'u_2'$ (Oddvv)

....

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(2) The section for intermediate points or significant points follows the indicator 11199 inserted in the message:

11199 hhPP'P'' TTUu'u' hhPP'P'' TTUu'u' .....
.....

(3) The symbols above have the meanings listed below:

III - International index number of station.

GG - Time of beginning of ascent, nearest whole hour GCT.

$P_oP'_oP''_o$ - Pressure at surface, whole millibars. Note: The convention of writing P for hundreds place, P prime (P') for tens place, and P double prime (P'') for units place has been adopted and is used throughout.

T_oT_o - Temperature at surface, whole degrees Centigrade.

U_oU_o - Relative humidity at surface, whole per cent.

$x_1x_2x_3$ - Indicator figures to show units used and inclusion of wind groups (tables given in paragraph (4)):
x_1 for heights and temperatures.
x_2 for wind when reported.
x_3 for u'u'.

0 - Indicator figure for wind group (radio or radar wind) data in the wind group always applies to the level immediately preceding.

dd - Wind direction, tens of degrees.

vv - Wind speed. (See paragraph (5)(h) for wind speeds in excess of 99 knots).

$P_1P'_1$ - $P_2P'_2$ etc. Pressure (tens of millibars of the first (lowest), second, etc. pressure levels. 00 for 1000mb., 90 for 900 mb., 85 for 850, etc.

$h_1h_1h_1$ - $h_2h_2h_2$ etc. Height of $P_1P'_1$, $P_2P'_2$, etc. in tens of feet.

T_1T_1 - T_2T_2 etc. Temperature at P_1P_1, P_2P_2, etc. in whole whole degrees Centigrade.

u_1u_2 - etc., Relatiwe humidity at P_1P_1, P_2P_2, etc.

$u'_1u'_1$ - u'_2u_2, etc., Moisture values at P_1P_1, P_2P_2, etc.

11199 - Indicator, additional levels follow

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hh - Height of the level in hundreds of feet.

PP'P'' - Pressure at selected point in whole millibars.

TT - Temperature at selected point in whole degrees. Centigrade.

U - Relative humidity to tens of per cent.

u'u' - Moisture values at selected point in units according to x_3.

(4) Code tables for x_1, x_2, x_3 symbols follow:

(a) x_1 - Indicator for units of height and temperature.

0 - Feet and degrees Centigrade.

2 - Feet and degrees Fahrenheit.

4 - Meters and degrees Centigrade.

6 - Meters and degrees Fahrenheit.

7 - Heights not reported and degrees Centigrade.

8 - Heights not reported and degrees Fahrenheit.

(b) x_2 - Indicator for wind group.

0 - Winds not reported.

2 - Winds reported in miles per hour.

4 - Winds reported in knots.

6 - Winds reported in kilometers per hour.

8 - Winds reported in meters per second.

(c) x_3 - Indicator for u'u'.

0 - $m_r m_r$ (mixing ratio grams and tenths, tens figure omitted).

2 - $T_w T_w$ (temperature of wet bulb, whole degrees, Centigrade or Fahrenheit)

4 - $T_s T_s$ (temperature of dew point, whole degrees, Centigrade or Fahrenheit).

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6 - T_nT_n (depression of wet bulb in half degrees Centigrade or Fahrenheit).

(5) The following practices and conventions in the use of the above code will be followed:

(a) The temperature and moisture group (and wind group) for any pressure level will be omitted when the level is below the surface of the station. Omission of these groups will be clearly indicated by the negative value for height when the surface is below sea level (see paragraph 5b), by the value for surface pressure, and by the first two figures of the next group.

(b) To report heights below sea level, the convention of adding 500 to the code figures (5000 to the actual value in feet) will be used. Example: If the height of the 1000 mb. surface is 1280 feet below sea level, 5000 is added and the figures 628 (128 plus 500) are coded for hhh.

(c) Temperature will be reported in whole degrees Centigrade with code 0 being used for x_1 (paragraph 5b(4)(a) above). The convention of adding 50 for negative values will apply. (For example: -2° coded as 52; -13° coded as 63; -55° coded as 05, etc.).

(d) Moisture content (u'u') will be reported as indicated by code 0 for x_3 (paragraph 5b(4)(c) above).

(e) The levels selected for the basic section will be the mandatory constant pressure levels, 1000, 850, 700, 500, 300, 200, and 100 millibars.

(f) The figures 9, 99, and 999 will be used for missing data in all positions except surface pressure. It is assumed that surface pressure will always be available.

(g) Wind data taken by means other than radio or radar direction means will not be included in the radiosonde report and the groups (0ddvv) will be omitted. When combined radio or radar wind and radiosonde ascents are made. code number 4 will be used for x_2 (paragraph 5b(4)(b) above) and wind data will be included for the mandatory constant puessure levels in the basic or standard section of the report.

(h) When winds are reported, the following convention will be used for reporting wind speeds in excess of 99 knots:

1. In the range 100 to 199. 50 is added to dd, and vv gives the actual speed minus 100. Example: A speed of 117 from the north (360 degrees) is coded 08617.

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2. In the range 200 to 299, the group 00200 is inserted immediately following the 0ddvv group, dd gives actual 10's of degrees and vv gives the actual speed minus 200. Example: A speed of 217 from the north (360 degrees) is coded 03617 00200.

3. In the range 300 to 399, the group 00200 is inserted immediately following the 0ddvv group, 50 is added to dd, and vv gives the actual speed minus 300. Example: A speed of 317 from the north (360 degrees) is coded 08617 00200.

(6) x_3 will be coded as 0 indicating that u'u' is reported in grams and tenths of water, tens being omitted.

(7) Ascents will be commenced daily at 0400Z and 1600Z.

6. The above reporting procedures will be adopted on 15 December 1945.

7. Weather reports received at the Central Meteorological Observatory, Tokyo, in accordance with the above directive will be broadcast at the times and on the frequencies currently authorized for weather broadcasts.

8. Index numbers other than the primary international index numbers for Asia applying to the Japan Area are from supplementary list number three, Japan Area, to Asia list. Index numbers required for stations not assigned a primary number from the Asia list and not assigned a supplementary number above, will be requested from this Headquarters.

FOR THE SUPREME COMMANDER:

H. W. Allen

H. W. ALLEN,
Colonel; A.G.D.,
Asst Adjutant General.

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Japan Area Supplementary List #3- Asia

INDEX NO.	STATION	LATITUDE	LONGITUDE	ELEVATION (M)
201	Makurazaki	31.16	130.18	32.5
210	Hukuoka	33.35	130.23	2.5
213	Oita	33.14	131.37	4.6
220	Sukumo	32.54	132.42	49.7
223	Koti	33.34	133.33	1.2
230	Hirosima	34.22	132.26	29.1
231	Hamada	34.54	132.04	18.0
236	Yonago	35.30	133.18	4.3
240	Takamatu	34.18	134.06	9.3
242	Sumuto	34.24	134.54	109.3
245	Osaka	34.39	135.32	6.7
247	Kyoto	35.01	135.44	41.5
249	Tottori	35.30	134.12	17.3
250	Owase	34.04	136.12	14.0
253	Kameyama	34.51	136.28	69.2
254	Nagoya	35.10	136.58	51.7
257	Gihu	35.24	136.46	12.8
258	Iida	35.31	137.50	481.8
260	Omaesaki	34.36	138.13	45.2
261	Osima	34.46	139.23	190.5
262	Sizuoka	34.58	138.24	13.5
271	Matumoto	36.15	137.68	610.0
274	Kanazawa	36.32	136.39	27.0
282	Maebasi	36.24	139.04	111.7
283	Mito	36.23	140.28	30.0
284	Nagano	36.40	138.12	418.1
285	Nantaisan	36.48	139.30	2479.9
286	Sirakawa	37.07	140.13	354.6
287	Takada	37.06	138.15	13.4
290	Zaosan	38.06	140.24	1760.0
295	Sakata	38.54	139.50	2.0
299	Iwateyama	39.51	141.01	1770.7
301	Hatinohe	40.32	141.32	27.4
312	Suttu	42.48	140.13	15.7
314	Sahorodake	43.12	142.48	1052.8
316	Kusiro	42.59	144.24	32.7
319	Ashahikawa	43.47	142.22	111.3
320	Kitami Esasi	44.54	142.36	6.1
321	Wakkanai	45.25	141.41	1.8

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Primary List of Index Numbers for Asia

INDEX NO.	STATTON	LATTTUDE	LONGTTUDE	ELEVATTON (F)
645	Ishigaki Shima	24.20	124.10	20
646	Miyako Shima	24.50	125.35	
647	Naha	26.12	127.39	92
648	Rasa Jima	24.25	131.15	
649	Minamioagarizima	25.51	131.14	
650	Naze	28.23	129.30	10
651	Yaku Shima	30.51	130.25	
652	Kagoshima	31.34	130.33	13
653	Miyazaki	31.55	131.26	23
654	Simidu	32.47	132.58	10
655	Murotomisaki	33.15	134.11	607
656	Siomisaki	33.27	135.46	240
657	Hamamatu	34.43	137.43	95
658	Tomisaki	34.55	139.50	40
659	Hachijo Shima	33.06	139.50	263
660	Titizima	27.05	142.11	10
661	Iwo Jima	30.48	141.18	
662	Tokyo	35.41	139.46	13
663	Chosi	35.44	140.51	61
664	Onahama	36.56	140.54	16
665	Sendai	38.16	140.54	125
666	Miyako	39.38	141.59	95
667	Simonoseki	33.57	130.56	151
668	Matuyama	33.50	132.45	102
669	Kobe	34.41	135.11	190
670	Tomie	32.37	128.46	89
671	Nagasaki	32.44	129.52	433
672	Ituhara	34.12	129.17	69
673	Matsue	35.26	133.04	
674	Miyazu	35.32	135.12	3
675	Hukui	36.03	136.13	33
676	Wajima	37.23	136.54	20
677	Niigata	37.56	139.03	23
678	Aikawa	38.02	138.14	144
679	Akita	39.43	140.06	30
680	Aomori	40.49	140.47	13
681	Hakodate	41.47	140.43	10
682	Urakawa	42.09	142.47	112
683	Nemuro	43.20	145.35	85
684na	Syana	45.14	147.53	125
685	Horonusiro	50.11	155.45	
686	Sapporo	43.04	141.21	49
687	Haboro	44.23	141.42	62
688	Abasiri	44.04	144.17	125
689	Odomari	46.39	142.46	118
690	Maoka	47.03	142.03	89

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Attached sheet No. 0

GENERAL HEADQUARTERS
SUPREME COMMANDER FOR THE ALLIED POWERS

AG 000.93 (23 Feb 46) GC
(SCAPIN -768)

APO 500
23 February 1946

MEMORANDUM FOR : IMPERIAL JAPANESE GOVERNMENT.

THROUGH : Central Liaison Office, Tokyo.

SUBJECT : Operation of Japanese Weather Service.

1. Technical Memorandum AG 000.93-GC-M1, enclosed with Memorandum for the Imperial Japanese Government, file AG 000.93 (19 Nov 45) GC-W, dated 19 November 1945, General Headquarters, Supreme Commander for the Allied Powers, subject as above, is amended as follows:

a. Change paragraph 3a to read as follows:

a. At 0400Z, 1000Z, 1600Z, 2200Z.

XXXGG $H_p ddv_k v_k$ $H_p dd\ v_k v_k$ ... ... (9999n)

... $H_p d\ d\ v_k v_k$ ..... etc.

b. And paragraph 9. as follows:

"9. a. Hourly weather reports from the stations listed in paragraph 2b above and paragraph 1 of Memorandum for the Imperial Japanese Government, File No. AG000.93 (13 Jan 46) GC, subject: Operation of Government Meteorological Stations Located on Detached Islands, dated 13 January 1946, will be sent in sufficient time to arrive at the Central Meteorological Observatory, Tokyo, by forty-five (45) minutes after the hour of observation.

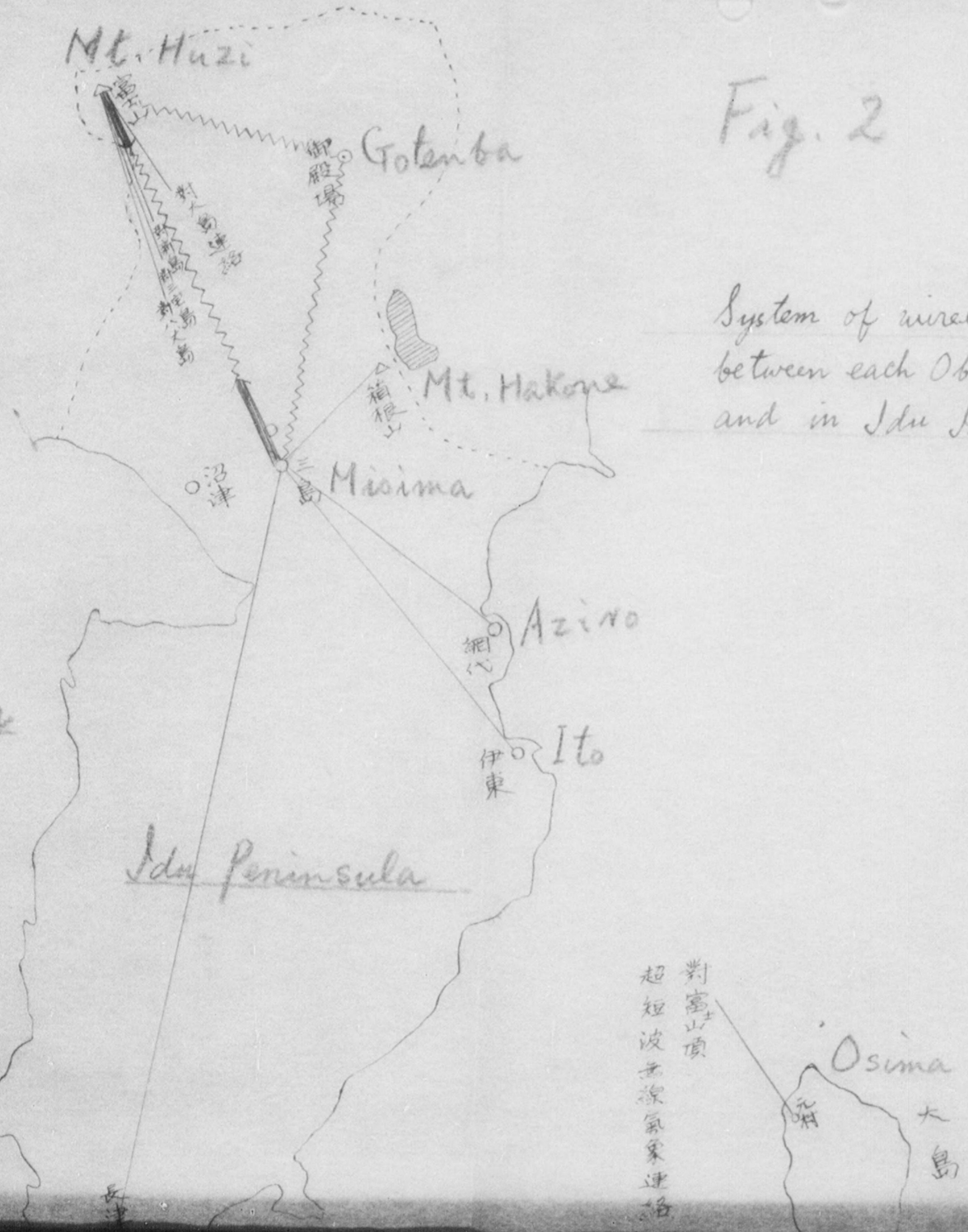
b. Hourly weather reports from weather stations received by the Central Meteorological Observatory will be prepared for transmission to the Army Airways Communications System radio station at Atsugo Airfield, Tokyo, so as to arrive not later than fifty (50) minutes after the hour of observation."

FOR THE SUPREME COMMANDER:

Harold Fair
for
B.M.DIRCH,
Brigadier General,AGD,
Adjutant General.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Fig. 2



System of wireless meteorological communication between each Observatory in Idu Peninsula and in Idu Islds. (Plan)

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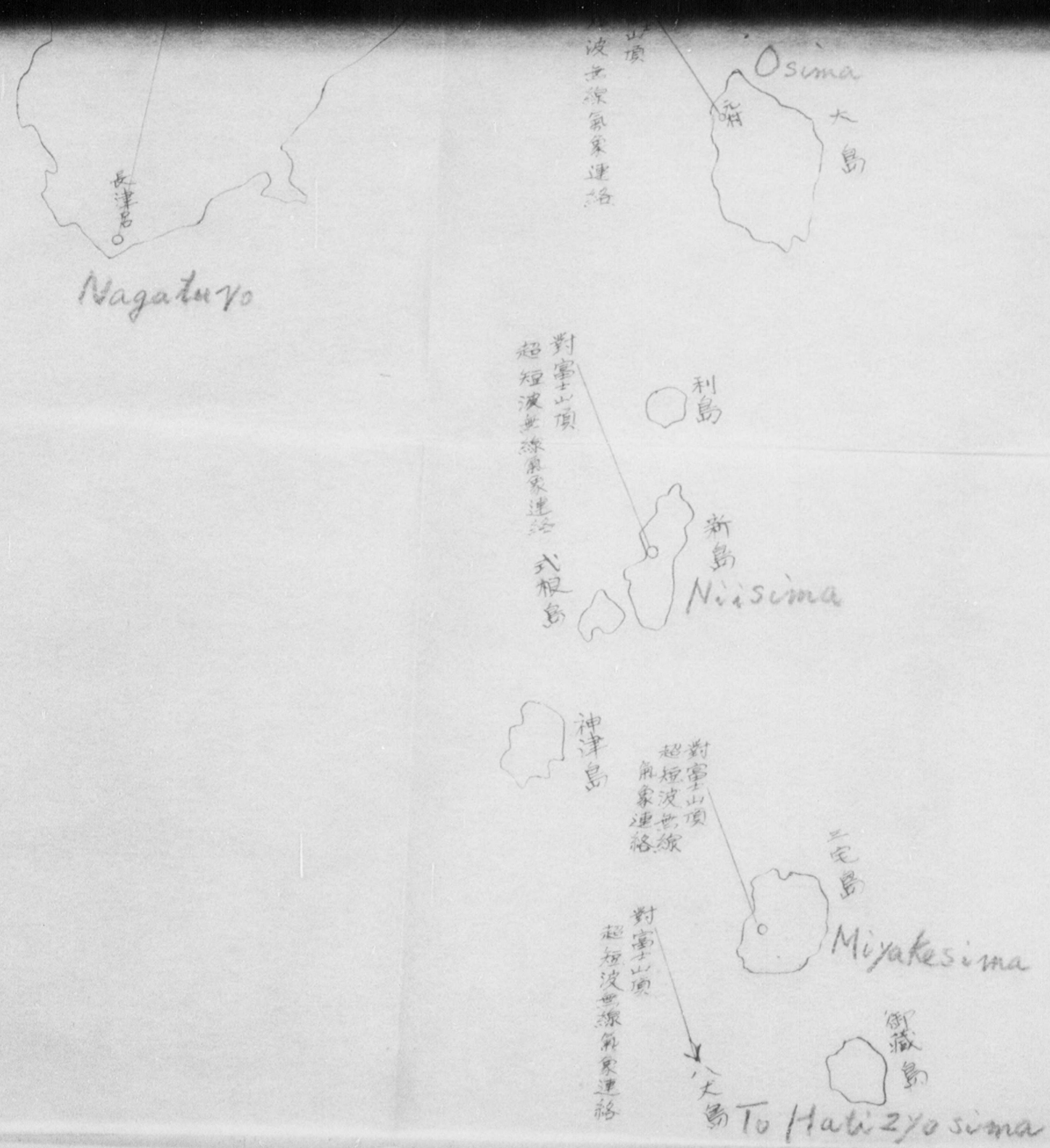

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Shimotogari Office

Fig 1

下士官事務所

1/500

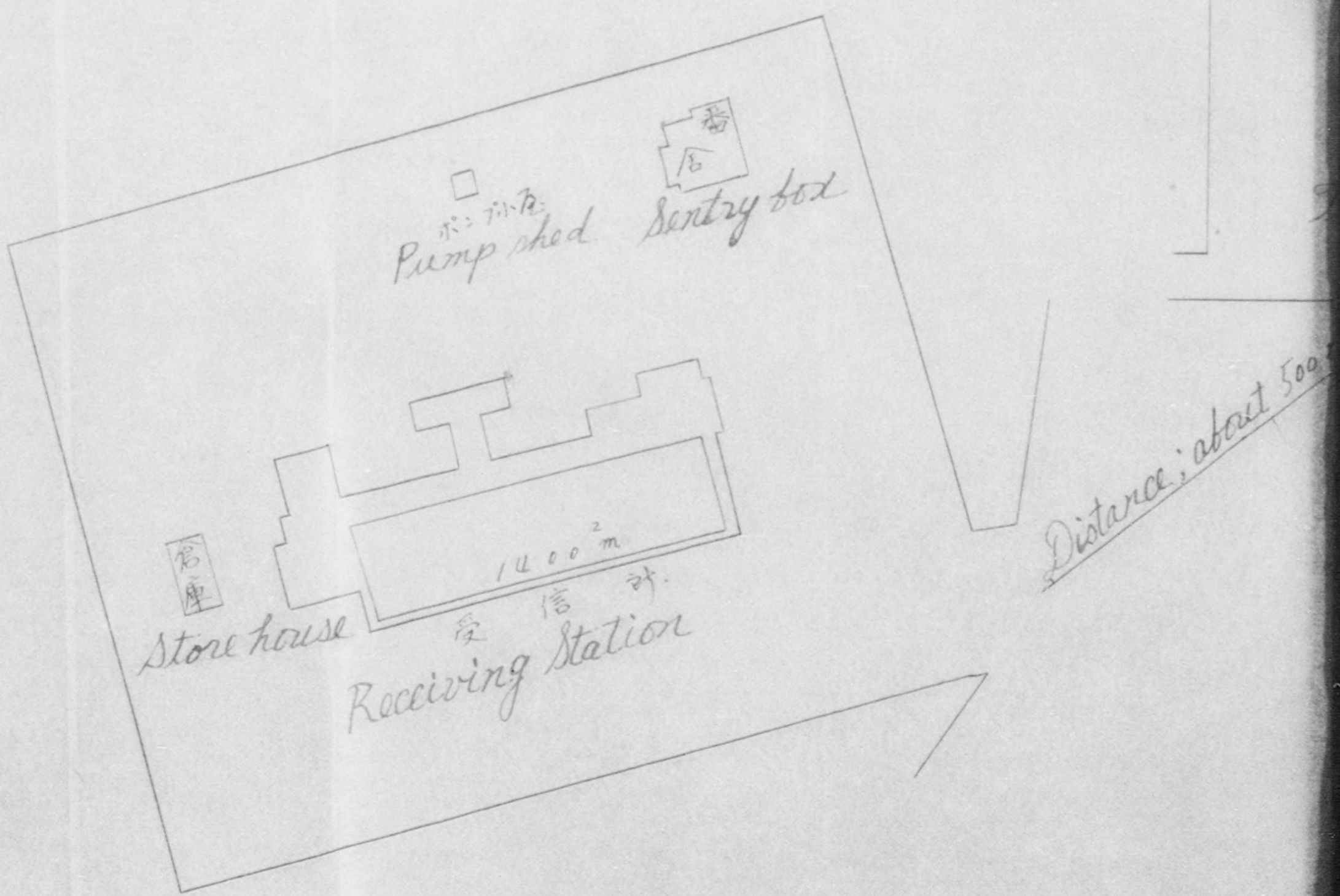

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Fig 1

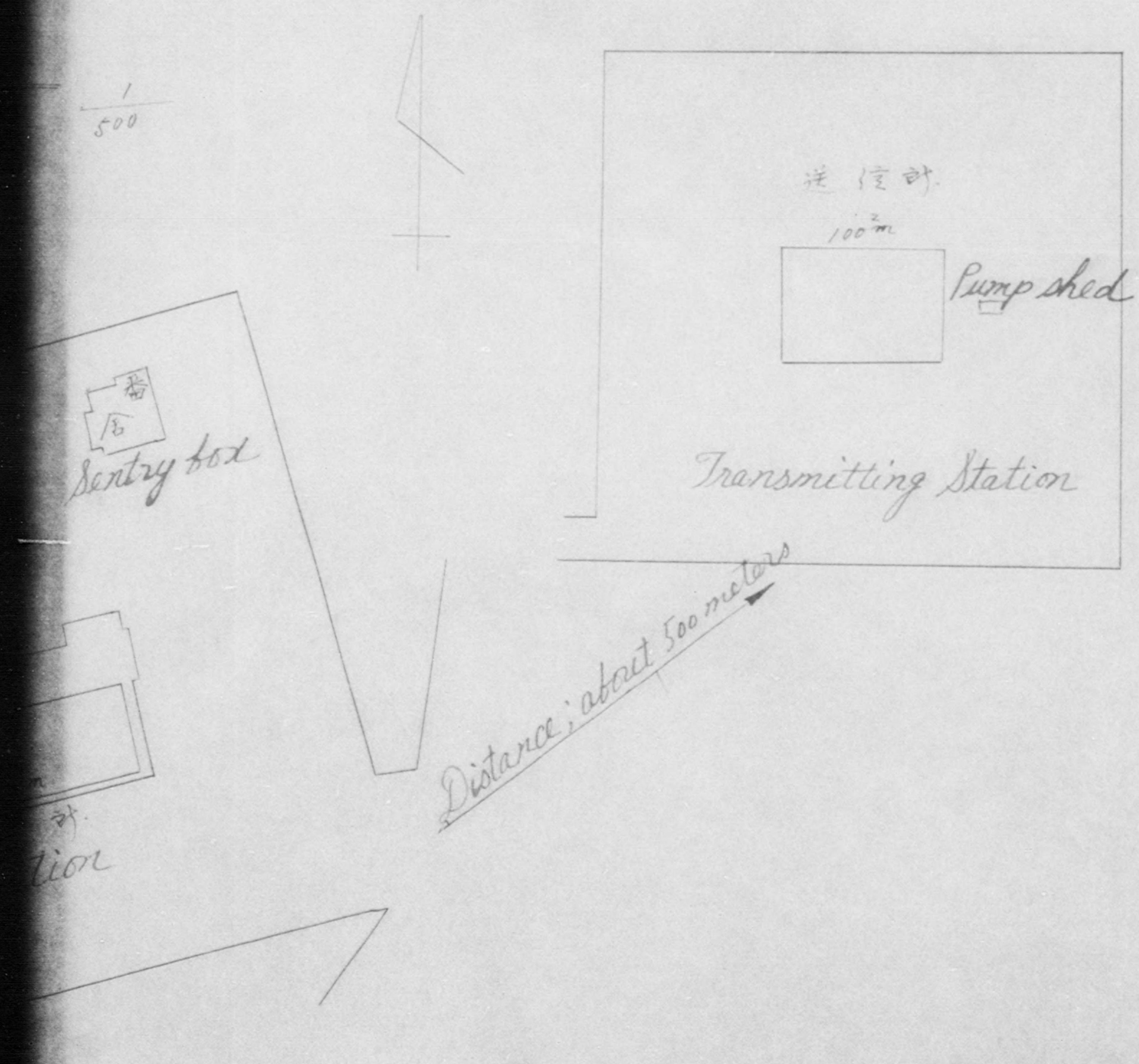

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Fig 1

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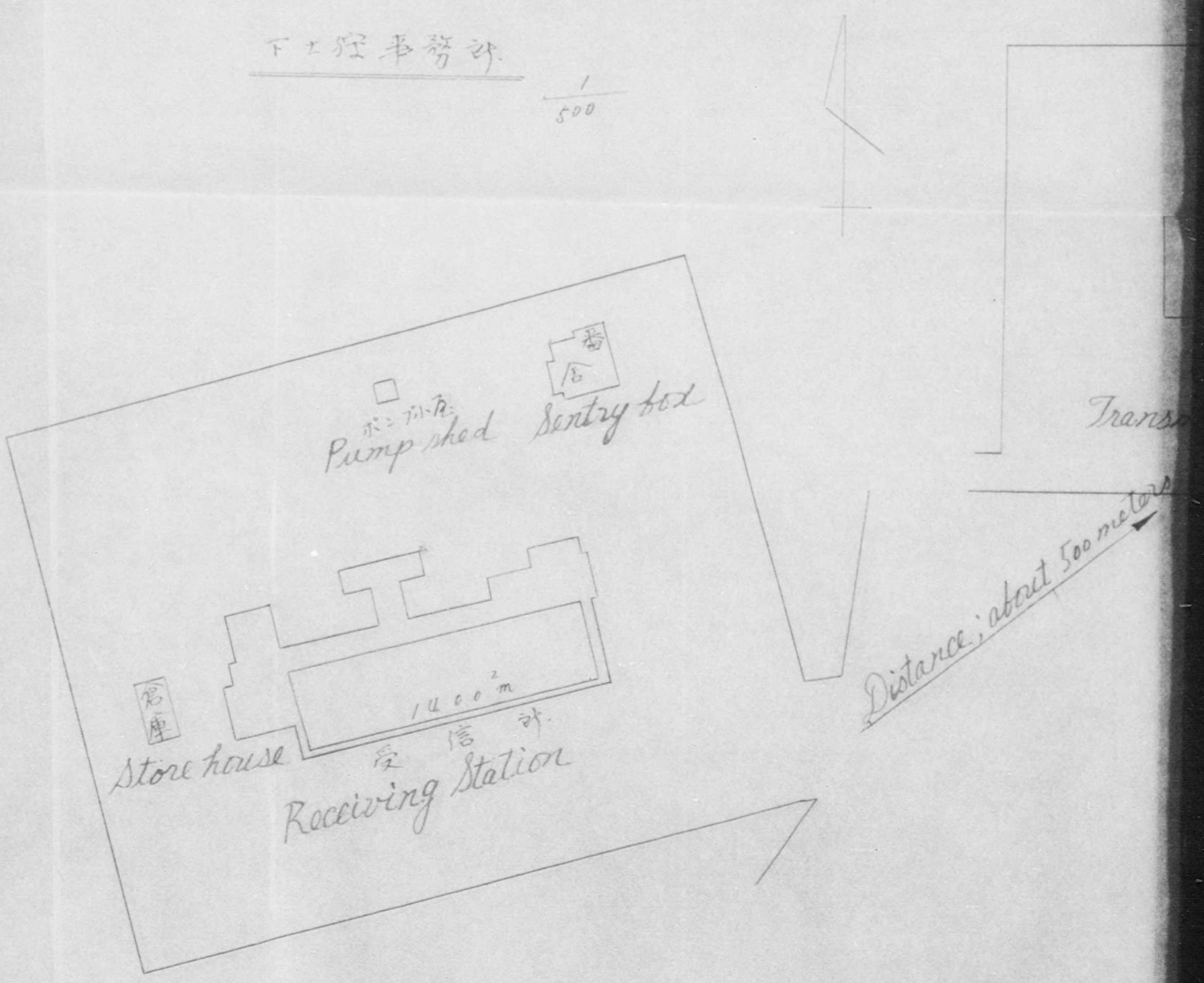

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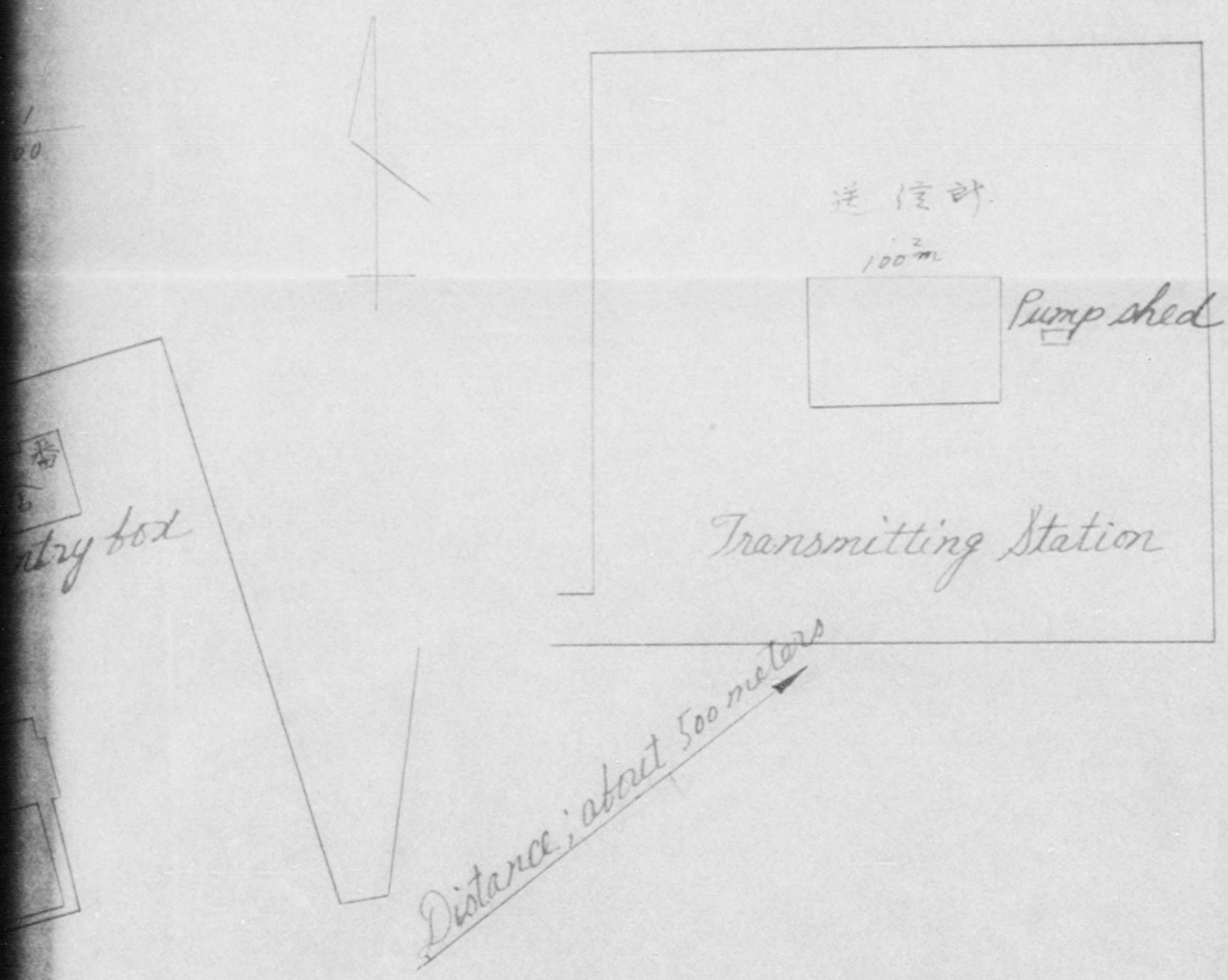
Fig 1