1368. **Jamnagar Aeronautical Radiobeacon.** **22°28'N., 70°01'E.**
FREQ.: 257 kc/s, A1.
CHARACTERISTIC SIGNAL: JMR (•▬▬▬ ▬▬ •▬•).

1369. **Diu Head Light Station.** **20°41'30"N., 70°49'42"E.**
FREQ.: 289 kc/s, A2.
CHARACTERISTIC SIGNAL:

	Seconds
VUS (•••▬ ••▬ •••) 4 times	20
Long dash (▬▬)	25
VUS (•••▬ ••▬ •••) 4 times	20
Long dash (▬▬)	25
VUS (•••▬ ••▬ •••) 2 times	10
Silent	260
Period	360 (6 min.)

HOURS OF TRANSMISSION: (a) Low visibility, continuous. (b) Clear weather, 3 emissions of the whole characteristic commencing at 05 and 35 minutes past each hour.

1372. **Khanderi Island Light Station** ..... **18°42'09"N., 72°48'51"E.**
1373. **Vengurla Rocks Light Station** ..... **15°53'24"N., 73°28'18"E.**
FREQUENCY: 286 kc/s, A2.

	Minutes
CHARACTERISTIC: (interrupted by a long dash)	1
Silent	3
Period	4

NAME	CHARACTERISTIC	GROUP SEQUENCE	TIME OF TRANSMISSION LOW VIS.	CLEAR
Khanderi	VUK (•••▬ •••▬ ▬•▬)	I	Continuous	00, 04, 08, 28, 32, 36
Vengurla	VUU (••• •••▬ ••▬)	II	Continuous	01, 29*

*NOTE: From 0600 to 1000 and 1800 to 2200.

1376. **Mangalore Aeronautical Radiobeacon.** **12°58'N., 74°53'E.**
FREQ.: 357 kc/s, AO, A2.
CHARACTERISTIC SIGNAL: ML (▬▬ •▬••).
HOURS OF TRANSMISSION: Daytime.

1378. **Cochin Aeronautical Radiobeacon.** **9°58'N., 76°17'E.**
FREQ.: 325 kc/s, AO, A2.
CHARACTERISTIC SIGNAL: CC (▬•▬• ▬•▬•).

1380. **Trivandrum Aeronautical Radiobeacon.** **8°29'N., 76°54'E.**
FREQ.: 295 kc/s, A0, A2.
CHARACTERISTIC SIGNAL: TV (▬ ●●●▬).

1382. **Madras Aeronautical Radiobeacon.** **13°02'N., 80°09'E.**
FREQ.: 292 kc/s, A1.
CHARACTERISTIC SIGNAL: MV (▬▬ ●●●▬).

1383. **Dolphins Nose Light Station.** **17°40'36"N., 83°17'41"E.**
FREQ.: 295 kc/s, A2.
CHARACTERISTIC SIGNAL:

	Seconds
DN (▬●● ▬●) 10 times	20
Long dash (▬▬)	25
DN (▬●● ▬●) 5 times	10
Silent	65
Period	120 (2 min.)

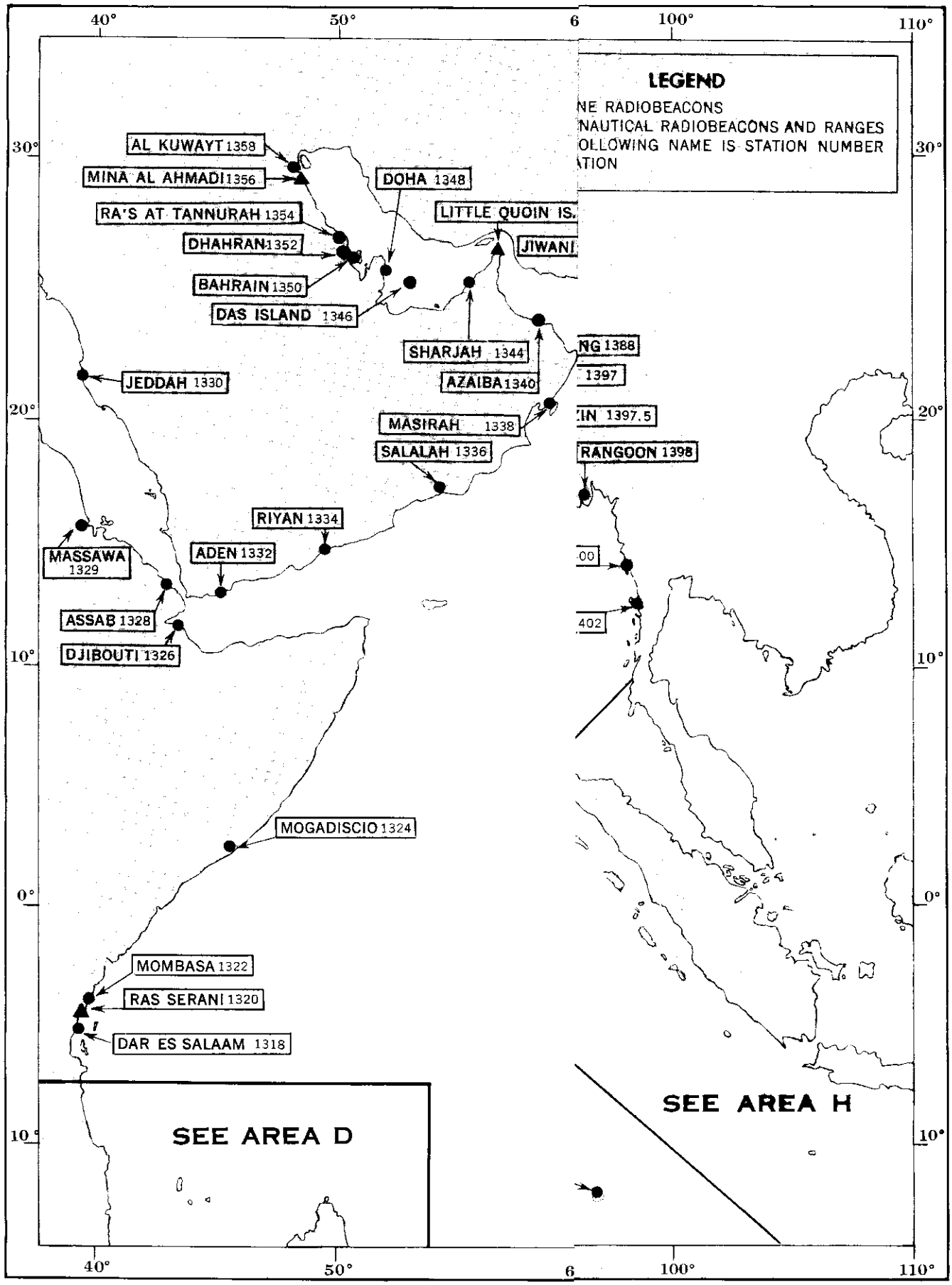
HOURS OF TRANSMISSION: (a) Low visibility, continuous. (b) Clear weather, 3 emissions of the characteristic signal at 03 and 33 minutes past each hour.

1384. **Vishakhapatnam Aeronautical Radiobeacon.** **17°43'N., 83°16'E.**
FREQ.: 274 kc/s, A0, A2.
CHARACTERISTIC SIGNAL: VZ (●●●▬ ▬▬●●).
HOURS OF TRANSMISSION: Daytime.

1385. **False Point Light Station*** ..... **20°19'45"N., 86°44'15"E.**
1385.5. **Saugar Island Light Station**** ..... **21°39'24"N., 88°02'54"E.**
FREQUENCY: 318 kc/s, A2.

	Minutes*	Minutes**
CHARACTERISTIC: (interrupted by a long dash)	1	1
Silent	3	1
Period	4	2

NAME	CHARACTERISTIC	TIME OF TRANSMISSION LOW VIS.	CLEAR
Saugar Island	SI (●●● ●●)	Continuous	9, 11, 41, 43
False Point	VUF (●●●▬ ●●▬ ●▬●●)	Continuous	10, 14, 18, 42, 46, 50


LEGEND
NE RADIOBEACONS
NAUTICAL RADIOBEACONS AND RANGES
OLLOWING NAME IS STATION NUMBER
ATION
AL KUWAYT 1358
MINA AL AHMADI 1356
RA'S AT TANNURAH 1354
DHAHRAN 1352
BAHRAIN 1350
DAS ISLAND 1346
DOHA 1348
LITTLE QUOIN IS.
JIWANI
SHARJAH 1344
AZAIBA 1340
NG 1388
1397
IN 1397.5
RANGOON 1398
JEDDAH 1330
MASIRAH 1338
SALALAH 1336
RIYAN 1334
ADEN 1332
MASSAWA 1329
ASSAB 1328
DJIBOUTI 1326
MOGADISCIO 1324
MOMBASA 1322
RAS SERANI 1320
DAR ES SALAAM 1318
SEE AREA D
SEE AREA H
40°
50°
100°
110°
30°
20°
10°
0°

(Face p. 1-34)

PAKISTAN—East

1386. **Hiran Point.** **21°48'42"N., 89°27'45"E.**
FREQ.: 318 kc., A2 RANGE: 150 miles.

CHARACTERISTIC SIGNAL:	Seconds
CLN (▬•▬• •▬•• ▬•) 2 times	20
Long dash	20
CLN (▬•▬• •▬•• ▬•)	10
Long dash	20
CLN (▬•▬• •▬•• ▬•)	10
Long dash	20
CLN (▬•▬• •▬•• ▬•)	10
Silent	10
Period — approx.	120 (2 min.)

HOURS OF TRANSMISSION: (a) Clear weather; 1630–2359. (b) Low visibility; continuous. (c) On request for special cases. (d) QTG service; call ASV1 on 500 kc.

1388. **Chittagong Aeronautical Radiobeacon.** **22°16'N., 91°50'E.**
FREQ.: 287 kc., A2. POWER: 300 watts.
CHARACTERISTIC SIGNAL: EG (• ▬▬•).

CEYLON

1391. **Colombo (Katunayake) Aeronautical Radiobeacon.** **7°11'N., 79°53'E.**
FREQ.: 270 kc., A1. POWER: 2,000 watts.
CHARACTERISTIC SIGNAL: KA (▬•▬ •▬).

1392. **China Bay (Trincomalee) Aeronautical Radiobeacon.** **8°33'N., 81°12'E.**
FREQ.: 280 kc., A2. POWER: 1,000 watts.
CHARACTERISTIC SIGNAL: CB (▬•▬• ▬•••).

1394. **Koggola Aeronautical Radiobeacon.** **6°00'N., 80°19'E.**
FREQ.: 395 kc., A2. POWER: 500 watts.
CHARACTERISTIC SIGNAL: KG (▬•▬ ▬▬•).

1396. **Ratmalana Aeronautical Radiobeacon.** **6°50'N., 79°53'E.**
FREQ.: 350 kc., A2. POWER: 350 watts.
CHARACTERISTIC SIGNAL: RM (•▬• ▬▬).

BURMA

1397. **Akyab Aeronautical Radiobeacon.** — **20°08'N., 92°53'E.**
FREQ.: 216 kc., A2. POWER: 2,000 watts.
CHARACTERISTIC SIGNAL: AKB (•▬ ▬•▬ ▬•••).

1397.5. **Mazin (Sandoway) Aeronautical Radiobeacon.** — **18°28'N., 94°20'E.**
FREQ.: 270 kc., A0, A2. POWER: 150 watts.
CHARACTERISTIC SIGNAL: SY (••• ▬•▬▬).
HOURS OF TRANSMISSION: One hour before E.T.A., other times by arrangement 0001–1200.

1398. **Rangoon (Mingaladon) Aeronautical Radiobeacon.** — **16°55'N., 96°08'E.**
FREQ.: 380 kc., A0, A2. POWER: 2,000 watts.
CHARACTERISTIC SIGNAL: RGN (•▬• ▬▬• ▬•).

1400. **Tavoy Aeronautical Radiobeacon.** — **14°06'N., 98°13'E.**
FREQ.: 310 kc., A0, A2. POWER: 500 watts.
CHARACTERISTIC SIGNAL: TY (▬ ▬•▬▬).
HOURS OF TRANSMISSION: One hour before E.T.A.; other times by arrangement 0001–1200.

1402. **Mergui Aeronautical Radiobeacon.** — **12°27'N., 98°37'E.**
FREQ.: 300 kc., A0, A2. POWER: 2,000 watts.
CHARACTERISTIC SIGNAL: MGI (▬▬ ▬▬• ••).

NICOBAR ISLANDS

1404. **Car Nicobar Aeronautical Radiobeacon.** — **9°09'N., 92°49'E.**
FREQ.: 355 kc., A0, A1. POWER: 2,000 watts.
CHARACTERISTIC SIGNAL: CN (▬•▬• ▬•).
HOURS OF TRANSMISSION: For scheduled flights and on request 24 hours notice.

COCOS ISLANDS

1406. **West Island Aeronautical Radiobeacon.** — **12°09'S., 96°49'E.**
FREQ.: 305 kc., A0, A2. POWER: 3,000 watts.
CHARACTERISTIC SIGNAL: CC (▬•▬• ▬•▬•).
HOURS OF TRANSMISSION: For scheduled flights and on request.

MALAYSIA

1408. **Johore Bahru Aeronautical Radiobeacon.** — **1°29'N., 103°43'E.**
FREQ.: 400 kc., A0, A2- POWER: 80 watts.
CHARACTERISTIS SIGNAL: JB (•▬▬▬ ▬•••).

1410. **Sinjon (Singapore) Aeronautical Radiobeacon.** — **1°13'N., 103°51'E.**
FREQ.: 265 kc., A0, A2. POWER: 3,300 watts.
CHARACTERISTIC SIGNAL: SJ (••• •▬▬▬).

1412. **Horsburgh Light Station.** — **1° 19' 48"N., 104° 24' 19"E.**
FREQ.: 301.5 kc/s — RANGE: 120 miles.
CHARACTERISTIC SIGNAL: PB (•▬▬• ▬•••) 2 times each minute.
HOURS OF TRANSMISSION: Continuous. Station closed for maintenance 0600–1400, local time, on the 28th of each month.
REMARKS: Carrier signal. (See sec. 100A).

1414. **Kota Bahru Aeronautical Radiobeacon.** — **6° 10' N., 102° 17' E.**
FREQ.: 368 kc/s, A0, A2. — POWER: 500 watts.
CHARACTERISTIC SIGNAL: KB (▬•▬ ▬•••).

THAILAND

1415. **Songkhla Aeronautical Radiobeacon.** — **7° 11' N., 100° 37' E.**
FREQ.: 390 kc/s, A0, A2. — POWER: 1,000 watts.
CHARACTERISTIC SIGNAL: SK (••• ▬•▬).

1416. **Don Muang Aeronautical Radiobeacon.** — **13° 43' N., 100° 33' E.**
FREQ.: 345 kc/s, A0, A2. — POWER: 4,000 watts.
CHARACTERISTIC SIGNAL: BKK (▬••• ▬•▬ ▬•▬).

VIETNAM

[redacted] **Cap St. Jacques (Vung Tau) Aeronautical Radiobeacon.** — **10° 22' N., 107° 05' E.**
Amend FREQ *to read:* 257 Kc/s, A0, A2. — NAVOCEANO 40/67. — 200 miles.
CHARACTERISTIC SIGNAL: XVL (▬••▬ •••▬ •▬••). — **107° 05' E.**

1417.5. **Phan Thiet Aeronautical Radiobeacon.** — **10° 55' N., 108° 07' E.**
FREQ.: 355 kc/s — RANGE: 100 miles.
CHARACTERISTIC SIGNAL: PT (•▬▬• ▬).

1417.8. **Cam Ranh Bay Aeronautical Radiobeacon .** — **12° 00' N., 109° 14' E.**
FREQ.: 310 kc/s, A1. — POWER: 400 watts.
CHARACTERISTIC SIGNAL: IL (•• •▬••).

1418. **Nha Trang Aeronautical Radiobeacon.** — **12° 14' N., 109° 12' E.**
FREQ.: 400 kc/s, A0, A2. — POWER: 400 watts.
CHARACTERISTIC SIGNAL: KH (▬•▬ ••••).

1419. **Danang Aeronautical Radiobeacon.** — **16° 03' N., 108° 12' E.**
FREQ.: 295 kc/s, A0, A2. — RANGE: 120 miles.
CHARACTERISTIC SIGNAL: SF (••• ••▬•).

1419.2. **Hue Aeronautical Radiobeacon.** — **16° 24' N., 107° 42' E.**
FREQ.: 393 kc/s, A0, A2. — RANGE: 80 miles.
CHARACTERISTIC SIGNAL: HU (•••• ••▬).

HONG KONG

1420. **Wang Lan Light Station.** — **22°11'01"N., 114°18'03"E.**
FREQ.: 298 kc/s, AO, A2.
CHARACTERISTIC SIGNAL: WL (•▬▬ •▬••).
HOURS OF TRANSMISSION: Continuous.
RANGE: 96 miles.
POWER: 300 watts.

CHINA

Note.—The location and operation of Chinese radiobeacons are not to be relied upon.

1422. **Ta-Chi Shan (Gutzlaff) Light Station** ..... **30°48'32"N., 122°10'15"E.**
1423. **Hua-niao Shan (North Saddle) Light Station** ..... **30°51'41"N., 122°40'12"E.**
1424. **Yangtze North** ..... NOTE.—[1]

FREQUENCY: 300 kc/s, A2.

	Minutes
CHARACTERISTIC	1
Silent	2
Repetition of above signal group	3
Period	6

NAME	CHARACTERISTIC	GROUP SEQUENCE	TIME OF TRANSMISSION LOW VIS.	CLEAR
Yangtze North	LY (•▬•• ▬•▬▬ 2 times & ▬▬)	I, IV	Continuous	00, 15, 30, 45
Hua-niao Shan	DH (▬•• •••• 2 times & ▬▬)	II, V	Continuous	01, 16, 31, 46
Ta Chi Shan	DD (▬•• ▬•• 2 times & ▬▬)	III, VI	Continuous	02, 17, 32, 47

NOTE.—[1] The position of Yangtze North is not known, but is believed to be in the vicinity of 32°01'N., 121°45'E.

1427. **Lao-tieh-shan-hsi Light Station** ..... **38°43'42"N., 121°07'52"E.**
1428. **Ta-san-shan-Tao Light Station** ..... **38°51'54"N., 121°49'16"E.**
1429. **Yuan Tao Light Station** ..... **38°40'30"N., 122°09'30"E.**
FREQ.: 306 kc/s

NAME	CHARACTERISTIC	TIME OF TRANSMISSION
Lao-tieh-shan-hsi	LT (•▬•• ▬)	00, 20, 40
Ta-san-shan-Tao	KL (▬•▬ •▬••)	02, 22, 42
Yuan Tao	YO (▬•▬▬ ▬▬▬)	04, 24, 44

NOTE: Details of above stations are uncertain.

KOREA

1431. **P'almi Do Light Station.** **37°21.3'N., 126°30.8'E.**
FREQ.: 313 kc/s, A2. RANGE: 100 miles.
CHARACTERISTIC SIGNAL:

	Minutes
PM (•▬▬• ▬▬)	1
Silent	2
Period	3

HOURS OF TRANSMISSION: (a) Low visibility, continuous. (b) Clear weather, 3 emissions of the whole characteristic commencing at 12 and 42 minutes past each hour from sunrise to sunset.

1435. **Och'ong Do Light Station.** **36°07.3'N., 125°58.1'E.**
FREQ.: 295 kc/s, A2. RANGE: 100 miles.
CHARACTERISTIC SIGNAL:

	Minutes
EC (• ▬•▬•)	1
Silent	2
Period	3

HOURS OF TRANSMISSION: Operates from 2–9 and 32–41 minutes past each hour.

1438. **Chuk To Light Station.** **34°13'25"N., 125°51'00"E.**
FREQ.: 290 kc/s, A2. RANGE: 100 miles.
CHARACTERISTIC SIGNAL:

	Seconds
CK (▬•▬• ▬•▬)	60
Silent	120
Period	180 (3 min.)

HOURS OF TRANSMISSION: (a) Low visibility, continuous. (b) Clear weather, from 20–28 and 50–58 minutes past each hour, sunrise to sunset.

1443. **Cheju.** **33°30'43"N., 126°32'42"E.**
FREQ.: 375 kc/s, A2. RANGE: 400 miles.
CHARACTERISTIC SIGNAL:

	Seconds
CD (▬•▬• ▬••) 2 times	10
Long dash	20
Period	30

HOURS OF TRANSMISSION: Continuous.

1444. **Chaji Do Light Station.** **34°05'40"N., 126°36'16"E.**
FREQ.: 315 kc/s, A2. RANGE: 80 miles.
CHARACTERISTIC SIGNAL:

	Minutes
JKM (•▬▬▬ ▬•▬ ▬▬)	2
Silent	1
Period	3

HOURS OF TRANSMISSION: (a) Low visibility, continuous. (b) Clear weather, at 22 and 32 minutes past the hour.
REMARKS: Between signal transmissions watch is kept on 500 and 375 kc/s.

1446. **Komun Do Light Station.** **34° 00' 33"N., 127° 19' 26"E.**

FREQ.: 287.5 kc/s, A2. RANGE: 100 miles.

CHARACTERISTIC SIGNAL:

	Seconds
KM (▬•▬ ▬▬)	60
Silent	120
Period	180 (3 min.)

HOURS OF TRANSMISSION: (a) Low visibility, continuous. (b) Clear weather, from 10–18 and 40–48 minutes past each hour, sunrise to sunset.

1448. **Choryong Do Light Station.** **35° 02' 57"N., 129° 05' 40"E.**

FREQ.: 300 kc/s, A2. RANGE: 25 miles.

CHARACTERISTIC SIGNAL:

	Seconds
CY (▬•▬• ▬•▬▬)	60
Silent	120
Period	180 (3 min.)

HOURS OF TRANSMISSION: (a) Low visibility, continuous. (b) Clear weather, from 01 and 31 minutes past each hour, sunrise to sunset.

1449. **Suyong Man.** **35° 10' 23"N., 129° 07' 50"E.**

FREQ.: 385 kc/s, A2. POWER: 400 watts.

CHARACTERISTIC SIGNAL:

	Seconds
PN (•▬▬• ▬•) 2 times	8
Long dash	22
Period	30

HOURS OF TRANSMISSION: Continuous.

1449.5. **Changgi Gap Lighthouse.** **36° 04' 28"N., 129° 34' 13"E.**

FREQ.: 310 kc/s, A2. RANGE: 100 miles.

CHARACTERISTIC SIGNAL:

	Minutes
CG (▬•▬• ▬▬•)	1
Silent	2
Period	3

HOURS OF TRANSMISSION: (a) Clear weather, at 13 and 43 minutes past each hour, daylight hours only. (b) Low visibility, continuous, commencing at 01 minute past the hour.

1450. **Kangnung Aeronautical Radiobeacon.** **37° 45' N., 128° 57' E.**

FREQ.: 348 kc/s, A2.

CHARACTERISTIC SIGNAL: LC (•▬•• ▬•▬•).

1451. **Chumunjin Dan Light.** **37° 53.7' N., 128° 50.2' E.**

FREQ.: 295 kc/s, A2. RANGE: 100 miles.

CHARACTERISTIC SIGNAL:

	Minute
CM (▬•▬• ▬▬) etc	1
Silent	2
Period	3

HOURS OF TRANSMISSION: Commencing at 03 and 33 minutes past each hour.

U.S.S.R.—Siberian Coast

NOTE: The location and operation of Russian radiobeacons are not to be relied upon.

1452. **Pos'yeta (Posiette Bay) Consol.** — **42°41.7'N., 130°56.7'E. (approx.).**
FREQ.: 263 kc/s, A1. RANGE: 1,000 miles.
CHARACTERISTIC SIGNAL: Minutes
SA (••• •▬•▬), followed by directional signals (60 dots/dashes) 60
HOURS OF TRANSMISSION: Continuously for one hour every 3 hours commencing at 0000 hours.
NOTE: Calibration table not available (1966).

1455. **Mys Bryusa** ..... **42°52.9'N., 131°28.2'E.**
1456. **Ostrov Skrypleva** ..... **43°01.7'N., 131°57.1'E.**
1457. **Nakhodka-Zaliv Amerika Front Light Station** ..... **42°50'21"N., 132°56'15"E.**
FREQUENCY: 291.5 kc/s, A2. Minutes
CHARACTERISTIC 1
Silent 5
Period 6

NAME	CHARACTERISTIC	GROUP SEQUENCE	RANGE (MILES)	TIME OF TRANSMISSION
Bryusa	BU (▬••• ••▬▬)	I	15	Continuous
Skrypleva	SW (••• •▬▬)	II	80	Continuous
Nachodka	NH (▬• ••••)	IV	30	Continuous

1460. **Mys Gamova Light Station** ..... **42°33'23"N., 131°13'10"E.**
1461. **Ostrov Askol'd Light Station** ..... **42°43'54"N., 132°20'42"E.**
1462. **Mys Povorotnyy Light Station** ..... **42°40.4'N., 133°02.5'E.**
1463. **Mys Ostrovnoy Light Station** ..... **42°48'30"N., 133°43'18"E.**
1464. **Mys Nizmennyy Light Station** ..... **43°31'10"N., 135°09'16"E.**
1465. **Mys Yegorova Light Station** ..... **44°46'21"N., 136°26'57"E.**
FREQUENCY: 306.5 kc/s, A2. Minutes
CHARACTERISTIC: (interrupted by a long dash) 1
Silent 5
Period 6

NAME	CHARACTERISTIC	GROUP SEQUENCE	RANGE (MILES)	TIME OF TRANSMISSION
Gamova	GM (▬▬• ▬▬)	I	150/80	Continuous
Povorotnyy	PO (•▬▬• ▬▬▬)	II	150/80	Continuous
Ostrovnoy	OR (▬▬▬ •▬•)	III	150/80	Continuous
Nizmennyy	NZ (▬• ▬▬••)	IV	100/80	Continuous
Yegorova	EO (• ▬▬▬)	V	150/80	Continuous
Askol'd	AD (•▬ ▬••)	VI	80	Continuous

1468. **Mys Balyuzek Light Station** ..... **43°55'24"N., 135°31'06"E.**

1469. **Tetyukhe-Mys Brinera Light Station** ..... **44°20'42"N., 135°50'50"E.**

FREQUENCY: 297.5 kc/s, A2.

	Minutes
CHARACTERISTIC: (interrupted by a long dash)	1
Silent	5
Period	6

NAME	CHARACTERISTIC	GROUP SEQUENCE	RANGE (MILES)	TIME OF TRANSMISSION
Balyuzek	BL (▬ ● ● ● ▬ ● ▬ ● ●)	V	50	Continuous
Tetyukhe	TU (▬ ● ● ▬ ▬)	VI	150/80	Continuous

1473. **Mys Belkina (Byelkin) Light Station** ..... **45°49'30"N., 137°41'00"E.**

1474. **Mys Zolotoy Light Station** ..... **47°19'08"N., 138°59'10"E.**

1475. **Mys Aniva** ..... **46°01'30"N., 143°25'00"E.**

1476. **Mys Kril'on Light Station** ..... **45°54'02"N., 142°04'50"E.**

1477. **Ostrov Moneron Light Station** ..... **46°14'40"N., 141°15'50"E.**

1478. **Port Kholmsk Light Station** ..... **47°01'45"N., 142°02'17"E.**

FREQUENCY: 300.5 kc/s, A2.

	Minutes
CHARACTERISTIC: (interrupted by a long dash)	1
Silent	5
Period	6

NAME	CHARACTERISTIC	GROUP SEQUENCE	RANGE (MILES)	TIME OF TRANSMISSION
Belkina	BN (▬ ● ● ● ▬ ●)	I	150/80	Continuous
Zolotoy	ZO (▬ ▬ ● ● ▬ ▬ ▬)	II	150/80	Continuous
Kholmsk	HK (● ● ● ● ▬ ● ▬)	III	80	Continuous
Moneron	MR (▬ ▬ ● ▬ ●)	IV	150/80	Continuous
Kril'on	KX (▬ ● ▬ ▬ ● ● ▬)	V	100/80	Continuous
Aniva	AW (● ▬ ● ▬ ▬)	VI	80	Continuous

1480. **Ostrov Kamen Opasnosti.** **45°47'30"N., 142°13'48"E.**

FREQ.: 745 kc/s, A1. RANGE: 15 miles.

CHARACTERISTIC SIGNAL:

	Seconds
K (▬ ● ▬)	06.0
Long dash (▬)	19.5
Silent	04.5
Repetition of above signal	30.0
Silent	120.0
Period	180 (3 min.)

HOURS OF TRANSMISSION: Continuous, commencing on each hour.

1474. **Mys Zolotoy Light Station.** **47°19'08"N., 138°59'10"E.**
FREQ.: 300.5 kc., A0, A2. RANGE: 150/80 miles.
CHARACTERISTIC SIGNAL:

	Seconds
ZO (▬▬•• ▬▬▬) 4 times	20
Long dash	25
ZO (▬▬•• ▬▬▬) 2 times	10
Silent	305
Period	360 (6 mins.)

HOURS OF TRANSMISSION: Continuous, commencing at 01 minute past each hour.

1476. **Mys Peschanyy Light Station.** **48°26'40"N., 140°10'30"E.**
FREQ.: 309.5 kc., A2. RANGE: 80 miles.
CHARACTERISTIC SIGNAL:

	Seconds
PA (•▬▬• •▬) 2 times	12
Long dash	18
Repetition of above signal	30
Silent	300
Period	360 (6 mins.)

HOURS OF TRANSMISSION: Continuous, commencing at 04 minutes past each hour.

1478. **Mys Krasnyy Partizan Light Station.** **48°58'28"N., 140°24'50"E.**
FREQ.: 294.5 kc., A2: RANGE: 80 miles.
CHARACTERISTIC SIGNAL:

	Seconds
KP (▬•▬ •▬▬•) 2 times	12
Long dash	18
Repetition of above signal	30
Silent	300
Period	360 (6 mins.)

HOURS OF TRANSMISSION: (a) Low visibility, continuous, commencing at 03 minutes past each hour. (b) Clear weather; Continuous commencing at 03 minutes past each hour at night; none by day.

1482. **Mys Tomari Aniva (Korsakov).** **46°36'30"N., 142°47'42"E. (approx.).**
FREQ.: 312.5 kc/s, A2. RANGE: 80 miles.
CHARACTERISTIC SIGNAL:

	Seconds
KW (▬•▬ •▬▬) 2 times	12
Long dash (▬)	18
Repetition of above signal	30
Silent	300
Period	360 (6 min.)

HOURS OF TRANSMISSION: (a) Low visibility, continuous, commencing at 05 minutes past each hour. (b) Clear weather; continuous at night, commencing at 05 minutes past each hour; by day, none.

1484. **Mys Susnova Light Station.** **46°31'30"N., 138°19'30"E.**
FREQ.: 740 kc/s, A1. RANGE: 15 miles.
CHARACTERISTIC SIGNAL:

	Seconds
KM (▬•▬ ▬▬)	10
Long dash (▬)	16
Silent	4
Repetition of above signal	30
Silent	120
Period	180 (3 min.)

HOURS OF TRANSMISSION: Continuous.

1486. **Mys Krosnyy Partizan Light Station.** **48°58'28"N., 140°24'50"E.**
FREQ.: 294.5 kc/s, A2. RANGE: 80 miles.
CHARACTERISTIC SIGNAL:

	Seconds
KP (▬•▬ •▬▬•) 2 times	12
Long dash (▬)	18
Repetition of above signal	30
Silent	300
Period	360 (6 min.)

HOURS OF TRANSMISSION: (a) Low visibility, continuous, commencing at 03 minutes past each hour. (b) Clear weather; continuous commencing at 03 minutes past each hour at night; none by day.

1488. **Poluostrov Terpeniya Consol.** **49°04.3'N., 144°21.0'E. (approx.).**
FREQ.: 372 kc/s, A1. RANGE: 1,000 miles.
CHARACTERISTIC SIGNAL:

	Minutes
CB (▬•▬• ▬•••) followed by (60 dots/dashes)	3
KS (▬•▬ •••) followed by (60 dots/dashes)	3
Period	6

HOURS OF TRANSMISSION: Continuously for one hour every 3 hours commencing at 0000 hours.
REMARKS: The antenna system of the two identification signals lie at right angles to each other enabling the sector in which the ship is in to be identified by a nomogram of successive observations.
NOTE: Calibration table will be published when available.

1490.	**Mys Peschanyy Light Station**	48°26'40"N., 140°10'30"E.
1491.	**Mys Lamanon Light Station**	48°46'45"N., 141°51'15"E.
1492.	**Mys Datta Light Station**	49°18'45"N., 140°26'50"E.
1493.	**Mys Syurkum Light Station**	50°06'12"N., 140°41'48"E.
1494.	**Mys Zhonkiyer Light Station**	50°53'43"N., 142°08'00"E.
1495.	**Mys Kloster-Kamp Light Station**	51°25'13"N., 140°53'20"E.

FREQUENCY: 309.5 kc/s, A2.

	Minutes
CHARACTERISTIC: (interrupted by a long dash)	1
Silent	5
Period	6

NAME	CHARACTERISTIC	GROUP SEQUENCE	RANGE (MILES)	TIME OF TRANSMISSION
Zhonkiyer	VR (•••▬ •▬•)	I	80	Continuous
Kloster-Kamp	OW (▬▬▬ •▬▬)	II	80	Continuous
Syurkum	SM (••• ▬▬)	III	80	Continuous
Datta	LD (•▬•• ▬••)	IV	80	Continuous
Peschanyy	PA (•▬▬• •▬)	V	80	Continuous
Lamanon	LM (•▬•• ▬▬)	VI	80	Continuous

1500.	**Ostrov Baydukov**	53°18'02"N., 141°28'32"E.
1501.	**Moskal'vo**	53°36'20"N., 142°30'10"E.
1502.	**Mys Litke**	53°57'18"N., 140°19'18"E.
1503.	**Ostrov Bol'shoy Shantar**	55°11'30"N., 137°37'48"E.
1504.	**Mys Tyl'skiy**	54°39'42"N., 135°38'06"E.

FREQUENCY: 318.5 kc/s, A2.

	Minutes
CHARACTERISTIC: (interrupted by a long dash)	1
Silent	5
Period	6

NAME	CHARACTERISTIC	GROUP SEQUENCE	RANGE (MILES)	TIME OF TRANSMISSION
Moskal'vo	MO (▬▬ ▬▬▬)	I	80	Continuous
Baydukov	BW (▬••• •▬▬)	II	80	Continuous
Litke	LT (•▬•• ▬)	III	150/80	Continuous
Bol'shoy Shantar	BR (▬••• •▬•)	IV	150/80	Continuous
Tyl'skiy	TL (▬ •▬••)	V	80	Continuous

1511. **Mys Yelizavety Light Station** ..... 54°25'30"N., 142°43'00"E.
1512. **Pil'tun Light Station** ..... 52°51'00"N., 143°18'00"E.
1513. **Chayvo** ..... 52°21'00"N., 143°12'00"E.
1514. **Nabil** ..... 51°41'30"N., 143°18'00"E.
1515. **Mys Terpeniya Light Station** ..... 48°38'36"N., 144°44'48"E.
1516. **Poronaysk Light Station** ..... 49°13'38"N., 143°07'45"E.

FREQUENCY: 291.5 kc/s, A2.

	Minutes
CHARACTERISTIC: (interrupted by a long dash)	1
Silent	5
Period	6

NAME	CHARACTERISTIC	GROUP SEQUENCE	RANGE (MILES)	TIME OF TRANSMISSION
Terpeniya	TR (▬ •▬•)	I	150/80	Continuous
Nabil	NL (▬• •▬••)	II	150/80	Continuous
Chayvo	OW (▬▬▬• •▬▬)	III	80	Continuous
Pil'tun	PN (•▬▬• ▬•)	IV	150/80	Continuous
Yelizavety	EZ (• ▬▬••)	V	150/80	Continuous
Poronaysk	AS (•▬ •••)	VI	100	Continuous

1520. **Mys Marekan (Okhotsk)** ..... 59°19'12"N., 143°28'42"E.
1521. **Ostrov Spafar'yeva** ..... 59°09'48"N., 149°05'42"E.
1522. **Mys Chirikova** ..... 59°29'03"N., 150°30'06"E.
1523. **Mys Yuzhnyy** ..... 58°59'00"N., 150°30'00"E

FREQUENCY: 303.5 kc/s, A2.

	Minutes
CHARACTERISTIC: (interrupted by a long dash)	1
Silent	5
Period	6

NAME	CHARACTERISTIC	GROUP SEQUENCE	RANGE (MILES)	TIME OF TRANSMISSION
Yuzhnyy	AL (•▬ •▬••)	II	175/80	Continuous
Chirikova	OI (▬▬▬• ••)	III	80	Continuous
Spafar'yeva	SF (••• •▬••)	IV	50	Continuous
Marekan	MK (▬▬ ▬•▬)	VI	175/80	Continuous

1526. **Ostrov Shumshu Consol.** **50°49.2'N., 156°26.0'E. (approx.).**
RANGE: 1,000 miles.
FREQ.: 340 kc/s, A1.
CHARACTERISTIC SIGNAL:

	Minutes
VL (•••▬ •▬••) followed by(60 dots/dashes)	3
NA (▬• •▬•▬) followed by (60 dots/dashes)	3
Period	6

HOURS OF TRANSMISSION: Continuously for one hour every 3 hours commencing at 0000 hours.
REMARKS: The antenna system of the two identification signals lie at right angles to each other enabling the sector in which the ship is in to be identified by a nomogram of successive observations.
NOTE: Calibration table will be published when available.

1528. **Mys Chibuynyy (Imai Saki) Light Station.** **50°46'N., 156°12'E.**
RANGE: 50 miles.
FREQ.: 306.5 kc/s, A2.
CHARACTERISTIC SIGNAL: ON (▬▬▬• ▬•).
HOURS OF TRANSMISSION: Continuous.

1530. **Mys Vasil'yeva Light Station, Kuril Islands** ..... **50°00'12"N., 155°23'30"E.**
1531. **Mys Kurbatova Light Station, Kuril Islands** ..... **50°51'54"N., 156°28'42"E.**
1532. **Mys Lopatka Light Station** ..... **50°52'30"N., 156°40'30"E.**
1533. **Mikoyanovskiy** ..... **52°34'00"N., 156°19'00"E.**
FREQUENCY: 297.5 kc/s, A2.
CHARACTERISTIC: (interrupted by a long dash)

	Minutes
	1
Silent	5
Period	6

NAME	CHARACTERISTIC	GROUP SEQUENCE	RANGE (MILES)	TIME OF TRANSMISSION
Mikoyanouskiy	BO (▬••• ▬▬▬)	I	175/80	Continuous
Lopatka	LK (•▬•• ▬•▬)	II	100/80	Continuous
Kurbatova	RB (•▬• ▬•••)	III	175/80	Continuous
Vasil'yeve	MW (▬▬ •▬▬)	IV	175/80	Continuous

1535. **Avachinskiy.** **53°02.7'N., 158°35.6'E.**
RANGE: 15 miles.
FREQ.: 303.5 kc/s, A2.
CHARACTERISTIC SIGNAL: SK (••• ▬•▬).
SK (••• ▬•▬).
HOURS OF TRANSMISSION: (a) Low visibility, continuous. (b) Clear weather, continuous 2200 to 0700.

1538. **Mys Mayachnyy Light Station** ..... **52° 52' 54"N., 158° 42' 50"E.**
1539. **Mys Shipunskiy** ..... **53° 06' 00"N., 160° 01' 30"E.**
1540. **Mys Kronotskiy** ..... **54° 43' 50"N., 162° 07' 15"E.**
1541. **Mys Afrika** ..... **56° 10' 05"N., 163° 18' 05"E.**
1542. **Mys Ozernoy** ..... **57° 43' 30"N., 163° 18' 54"E.**

FREQUENCY: 291.5 kc/s, A2.

	Minutes
CHARACTERISTIC: (interrupted by a long dash)	1
Silent	5
Period	6

NAME	CHARACTERISTIC	GROUP SEQUENCE	RANGE (MILES)	TIME OF TRANSMISSION
Ozernoy	ZR (▬▬•• •▬•)	II	175/80	Continuous
Shipunskiy	CHP (▬▬▬▬ •▬▬•)	III	150/75	Continuous
Kronotskiy	KO (▬•▬ ▬▬▬)	IV	150/80	Continuous
Afrika	AF (•▬ ••▬•)	V	150/75	Continuous
Mayachnyy	MA (▬▬ •▬•▬)	VI	175/80	Continuous

1545. **Mys Vasiliya.** **64° 34.5' N., 178° 32.9' E.**
RANGE: 150/80 miles.
FREQ.: 315.5 kc/s, A2.
CHARACTERISTIC SIGNAL:

	Minutes
RK (•▬•▬ ▬•▬)	1
Silent	5
Period	6

HOURS OF TRANSMISSION: (a) Low visibility, continuous commencing at 04 minutes past each hour. (b) Clear weather, two emissions of the characteristic signal at 04 and 34 minutes past each hour.

1547. **Mys Likhacheva (Bukhta Provideniya).** **64° 25.1' N., 173° 15.3' W.**
FREQ: 318 kc/s, A2.
CHARACTERISTIC SIGNAL: LB (•▬•• ▬•••).
HOURS OF TRANSMISSION: Continuous during navigation season.

1550. **Mys Van-der-Lind (Nobonotsu Misaki) Light Station** ..... **45° 35.0' N., 149° 25.0' E.**
1551. **Mys Lovtsova (Atoiya Misaki) Light Station** ..... **44° 27.0' N., 146° 34.5' E.**
1552. **Ostrov Shpanberga (Shikotan To) Light Station** ..... **43° 50.0' N., 146° 55.0' E.**

FREQUENCY: 312.5 kc/s, A2.

	Minutes
CHARACTERISTIC:	1
Silent	5
Period	6

NAME	CHARACTERISTIC	GROUP SEQUENCE	RANGE (MILES)	TIME OF TRANSMISSION
Shpanberga	PG (•▬▬• ▬••)	I	80	Continuous
Van-der-Lind	WL (•▬▬ •▬••)	II	150/80	Continuous
Lovtsova	OC (▬▬▬ ▬•▬•)	III	150/80	Continuous

JAPAN

155. Directional Rotating Wave Radiobeacon Signals.

This type radiobeacon can be used by any vessel with an ordinary receiving set capable of being tuned to the station's frequency, or as a conventional radiobeacon utilizing a vessels R. D. F. equipment to obtain a bearing. Using the "dots", the bearing of the vessel *from* the beacon can be obtained by counting the number of dots to the least audible (or inaudible) dot. With the number of dots thus obtained, enter the calibration table of the radiobeacon, already identified by the characteristic signal, to determine the true bearing *from* the beacon. For radiobeacons of this type which require no calibration, the number of dots counted and doubled (or plus 180) indicates the true bearing.

In case the signal received is weak due to distance or other causes, there may be more than two successive dots which are inaudible. Since the dots are transmitted at an exact interval, the number of inaudible dots can be closely estimated. Add half the estimated inaudible dots to the counted audible dots to obtain the figure to be used in entering the calibration table.

Note.—Care should be taken in counting the audible, and estimating the inaudible dots, as each dot represents 2° of bearing.

1539. Poronaysk. **49°13'38"N., 143°07'45"E.**

FREQ.: 291.5 kc., A2. RANGE: 100 miles.

CHARACTERISTIC SIGNAL:

	Seconds
AS (•▬ •••) 4 times	20
Long dash	25
AS (•▬ •••) 2 times	10
Silent	305
Period	360 (6 mins.)

HOURS OF TRANSMISSION: Continuous, commencing at 05 minutes past each hour.

1539.5. Poluostrov Terpeniya Consol. **49°04.3'N., 144°21.0'E. approx.**

FREQ.: 372 kc., A1. RANGE: 1,000 miles.

CHARACTERISTIC SIGNAL:

	Minutes
CB (▬•▬• ▬•••)	
Dots/dashes (60)	3
KS ▬•▬ •••)	
Dots/dashes (60)	3
Period	6

HOURS OF TRANSMISSION: Continuously for one hour every 3 hours commencing at 0000 hours.

REMARKS: The antenna system of the two identification signals lie at right angles to each other enabling the sector in which the ship is in to be identified by a nomogram of successive observations.

NOTE: Calibration table will be published when available.

1540. Mys Terpeniya. **48°38'36"N., 144°44'48"E.**

FREQ.: 291.5 kc., A2. RANGE: 150/80 miles.

CHARACTERISTIC SIGNAL:

	Seconds
TR (▬ •▬•) 2 times	12
Long dash	18
Repetition of above signal	30
Silent	300
Period	360 (6 mins.)

HOURS OF TRANSMISSION: Continuous, commencing on each hour.

1542. Mys Tomari Aniva (Korsakov). **46°36'30"N., 142°47'42"E. (approx.).**

FREQ.: 312.5 kc., A2. RANGE: 80 miles.

CHARACTERISTIC SIGNAL:

	Seconds
KW (▬•▬ •▬▬) 2 times	12
Long dash	18
Repetition of above signal	30
Silent	300
Period	360 (6 mins.)

HOURS OF TRANSMISSION: (a) Low visibility, continuous, commencing at 05 minutes past each hour. (b) Clear weather: Continuous at night, commencing at 05 minutes past each hour; by day, none.

1544. Mys Aniva. **46°01'30"N., 143°25'00"E.**

FREQ.: 300.5 kc., A0, A2. RANGE: 80 miles.

CHARACTERISTIC SIGNAL:

	Seconds
AW (•▬ •▬▬) 4 times	20
Long dash	25
AW (•▬ •▬▬) 2 times	10
Silent	305
Period	360 (6 mins.)

HOURS OF TRANSMISSION: Continuous, commencing at 05 minutes past each hour.

1546. Ostrov Kamen Opasnosti. 45°47'30"N., 142°13'48"E.
FREQ.: 303.5 kc., A1. RANGE: 15 miles.
CHARACTERISTIC SIGNAL:

	Seconds
K (▬•▬)	06.0
Long dash	19.5
Silent	04.5
Repetition of above signal	30.0
Silent	120.0
Period	180.0 (3 mins.)

HOURS OF TRANSMISSION: Continuous, commencing on each hour.

1548. Mys Kril'on Light Station. 45°54'02"N., 142°04'50"E.
FREQ.: 300.5 kc., A0, A2. RANGE: 80 miles.
CHARACTERISTIC SIGNAL:

	Seconds
KX (▬•▬ ▬•••▬) 4 times	20
Long dash	25
KX (▬•▬ ▬•••▬) 2 times	10
Silent	305
Period	360 (6 mins.)

HOURS OF TRANSMISSION: Continuous, commencing at 04 minutes past each hour.

JAPAN

155. Directional Rotating Wave Radiobeacon Signals.

This type radiobeacon can be used by any vessel with an ordinary receiving set capable of being tuned to the station's frequency, or as a conventional radiobeacon utilizing a vessels R. D.F. equipment to obtain a bearing. Using the "dots", the bearing of the vessel *from* the beacon can be obtained by counting the number of dots to the least audible (or inaudible) dot. With the number of dots thus obtained, enter the calibration table of the radiobeacon, already identified by the characteristic signal, to determine the true bearing *from* the beacon. For radiobeacons of this type which require no calibration, the number of dots counted and doubled (or plus 180) indicates the true bearing.

In case the signal received is weak due to distance or other causes, there may be more than two successive dots which are inaudible. Since the dots are transmitted at an exact interval, the number of inaudible dots can be closely estimated. Add half the estimated inaudible dots to the counted audible dots to obtain the figure to be used in entering the calibration table.

Note.—Care should be taken in counting the audible, and estimating the inaudible dots, as each dot represents 2° of bearing.

1556. Soya Misaki. 45°31'10"N., 141°56'24"E.

FREQ.: 298 kc., A2.

RANGE: 100 miles.

CHARACTERISTIC SIGNAL:

		Minutes
OY (▬▬ ▬•▬▬)	2 times	
A (•▬)	2 times	1
Dot (•)	100 times	
3 repetitions of above signal		3
Period		4

HOURS OF TRANSMISSION: For 4 minutes commencing at 11, 26, 41, and 56 minutes past each hour.

CALIBRATED SECTOR: 258°–102°.

REMARKS: See sec. 155.

Calibration Table for Soya Misaki

Dots	True Direction	Dots	True direction	Dots	True direction	Dots	True Direction
1	2	26	52	51	102 282	76	332
2	4	27	54	52	284	77	334
3	6	28	56	53	286	78	336
4	8	29	58	54	288	79	338
5	10	30*	60	55	290	80*	340
6	12	31	62	56	292	81	342
7	14	32	64	57	294	82	344
8	16	33	66	58	296	83	346
9	18	34	68	59	298	84	348
10*	20	35	70	60*	300	85	350
11	22	36	72	61	302	86	352
12	24	37	74	62	304	87	354
13	26	38	76	63	306	88	356
14	28	39	78 258	64	308	89	358
15	30	40*	80 260	65	310	90*	0
16	32	41	82 262	66	312	91	2
17	34	42	84 264	67	314	92	4
18	36	43	86 266	68	316	93	6
19	38	44	88 268	69	318	94	8
20*	40	45	90 270	70*	320	95	10
21	42	46	92 272	71	322	96	12
22	44	47	94 274	72	324	97	14
23	46	48	96 276	73	326	98	16
24	48	49	98 278	74	328	99	18
25	50	50*	100 280	75	330	100*	20

* ..... Dot in higher tone.

44°20'09"N., 143°21'54"E.

1558. Mombetsu Ko.

FREQ.: 298 kc., A2.

CHARACTERISTIC SIGNAL:

		Minutes
(a) Circular wave (non-directional).		
MN (▬▬ ▬•) 2 times Long dash (▬) 2 times	4 times	2
(b) Rotating wave (directional)		
MN (▬▬ ▬•) 2 times A (•▬) 2 times Dot (•) 100 times	4 times	4
Period		6

HOURS OF TRANSMISSION: For 6 minutes commencing at 05, 20, 35, and 50 minutes past each hour.

REMARKS: See sec. 155.

Calibration Table for Mombetsu Ko

Dots	True Direction	Dots	True direction	Dots	True direction	Dots	True Direction
1	2	26	52	51	102	76	(332)
2	4	27	54	52	104	77	(334)
3	6	28	56	53	106	78	(336)
4	8	29	58	54	108	79	(338)
5	10	30*	60	55	110	80*	(340)
6	12	31	62	56	112	81	(342)
7	14	32	64	57	114	82	(344)
8	16	33	66	58	116	83	(346)
9	18	34	68	59	118	84	(348)
10*	20	35	70	60*	120	85	(350)
11	22	36	72	61	122	86	(352)
12	24	37	74	62	124	87	(354)
13	26	38	76	63	126	88	(356)
14	28	39	78	64	128	89	(358)
15	30	40*	80	65	130	90*	0
16	32	41	82	66	132	91	2
17	34	42	84	67	134	92	4
18	36	43	86	68	136	93	6
19	38	44	88	69	138	94	8
20*	40	45	90	70*	140 (320)	95	10
21	42	46	92	71	142 (322)	96	12
22	44	47	94	72	146 (324)	97	14
23	46	48	96	73	148 (326)	98	16
24	48	49	98	74	150 (328)	99	18
25	50	50*	100	75	152 (330)	100*	20

*.....Dot in higher tone.
( ).....Unreliable.

1559. Abashiri.

43°59.7'N., 144°17.7'E.

FREQ.: 298 kc., A2.

CHARACTERISTIC SIGNAL:

(a) Rotating wave (directional)

		Minutes
AS (•▬ •••) 2 times A (•▬) 2 times Dot (•) 100 times	3 times	3
(b) Circular wave (non-directional)		
AS (•▬ •••) 2 times Long dash (▬) 2 times	4 times	2
Period		5

HOURS OF TRANSMISSION: For 5 minutes commencing at 00, 15, 30 and 45 minutes past each hour.

CALIBRATED SECTOR: 320° to 120°.

REMARKS: See sec. 155.

Calibration Table for Abashiri

Dots	True direction	Dots	True direction	Dots	True direction	Dots	True direction
1	(2)	26	52	51	102	76	(332)
2	(4)	27	54	52	104	77	(334)
3	(6)	28	56	53	106	78	(336)
4	8	29	58	54	108	79	(338)
5	10	30*	60	55	110	80*	(340)
6	12	31	62	56	112	81	(342)
7	14	32	64	57	114	82	(344)
8	16	33	66	58	116	83	(346)
9	18	34	68	59	118	84	(348)
10*	20	35	70	60*	120	85	(350)
11	22	36	72	61		86	(352)
12	24	37	74	62		87	(354)
13	26	38	76	63		88	(356)
14	28	39	78	64		89	(358)
15	30	40*	80	65		90*	(0)
16	32	41	82	66		91	(2)
17	34	42	84	67		92	(4)
18	36	43	86	68		93	(6)
19	38	44	88	69		94	08
20*	40	45	90	70*	(320)	95	10
21	42	46	92	71	(322)	96	12
22	44	47	94	72	(324)	97	14
23	46	48	96	73	(326)	98	16
24	48	49	98	74	(328)	99	18
25	50	50*	100	75	(330)	100*	20

*.....Dot in higher tone.
( ).....Unreliable.

1560. Hanasaki. 43°16'52"N., 145°35'38"E.

FREQ.: 286 kc., A2. POWER: 150 watts.

CHARACTERISTIC SIGNAL: Minutes

(a) Circular wave (non-directional).

KY (−•− −•−−) 2 times
Long dash (−−−) 2 times } 4 times 2

(b) Rotating wave (directional).

KY (−•− −•−−) 2 times
A (•−) 2 times
Dot (•) 100 times } 4 times 4

Period 6

HOURS OF TRANSMISSION: For 6 minutes commencing at 2, 17, 32 and 47 minutes past each hour.

CALIBRATED SECTOR: 300°–260°.

REMARKS: See sec. 155.

Calibration Table for Hanasaki

Dots	True direction	Dots	True direction	Dots	True direction	Dots	True direction
1	182	2	26	232	52	51	102	76	332	152
2	184	4	27	234	54	52	104	77	334	154
3	186	6	28	236	56	53	106	78	336	156
4	188	8	29	238	58	54	108	79	338	158
5	190	10	30*	240	60	55	110	80*	340	160
6	192	12	31	242	62	56	112	81	342	162
7	194	14	32	244	64	57	114	82	344	164
8	196	16	33	246	66	58	116	83	346	166
9	198	18	34	248	68	59	118	84	348	168
10*	200	20	35	250	70	60*	300 120	85	350	170
11	202	22	36	252	72	61	302 122	86	352	172
12	204	24	37	254	74	62	304 124	87	354	174
13	206	26	38	256	76	63	306 126	88	356	176
14	208	28	39	258	78	64	308 128	89	358	178
15	210	30	40*	260	80	65	310 130	90*	360	180
16	212	32	41		82	66	312 132	91	2	182
17	214	34	42		84	67	314 134	92	4	184
18	216	36	43		86	68	316 136	93	6	186
19	218	38	44		88	69	318 138	94	8	188
20*	220	40	45		90	70*	320 140	95	10	190
21	222	42	46		92	71	322 142	96	12	192
22	224	44	47		94	72	324 144	97	14	194
23	226	46	48		96	73	326 146	98	16	196
24	228	48	49		98	74	328 148	99	18	198
25	230	50	50*		100	75	330 150	100*	20	200

*.....Dot in higher tone.

1562. Kiritappu. 43°04'05"N., 145°08'50"E.

FREQ.: 286 kc., A2. POWER: 300 watts.

CHARACTERISTIC SIGNAL: Minutes

(a) Rotating wave (directional).

UT (••−− −) 2 times
A (•−) 2 times
Dot (•) 100 times } 3 times 3

(b) Circular wave (non-directional).

UT (••−− −) 2 times
Long dash (−−−) 2 times } 4 times 2

Period 5

HOURS OF TRANSMISSION: For 5 minutes commencing at 12, 27, 42 and 57 minutes past each hour.

REMARKS: See sec. 155.

1563. Akkeshi Ko (Directional). **43° 03.4' N., 144° 47.8' E.**
RANGE: 10 miles.

FREQ.: 9,310 Mc/s, P1.
DIRECTIONAL RANGE: 340°.
CHARACTERISTIC SIGNAL: Continuous sound on range.
D (▬ ● ●) right side of range.
U (● ● ▬) left side of range.
HOURS OF TRANSMISSION: Continuous.

1564. Kushiro Saki. **42° 57' 57" N., 144° 22' 42" E.**
RANGE: 50 miles.

FREQ.: 286 kc/s, A2.
CHARACTERISTIC SIGNAL:

		Minutes
UR (● ● ▬ ● ▬ ●)	2 times	
Commencement signal A	2 times	1
Dots	100 times	
Above signal repeated 3 times		3
Period		4

HOURS OF TRANSMISSION: At 08, 23, 38, and 53 minutes past each hour.
CALIBRATED SECTOR: 120°–300°.
REMARKS: See sec. 155.

Calibration Table for Kushiro Saki

Dots	True direction	Dots	True direction		Dots	True direction		Dots	True direction
1	182	26	232		51	282	(102)	76	152
2	184	27	234		52	284	(104)	77	154
3	186	28	236		53	286	(106)	78	156
4	188	29	238		54	288	(108)	79	158
5	190	30*	240		55	290	(110)	80*	160
6	192	31	242		56	292	(112)	81	162
7	194	32	244		57	294	(114)	82	164
8	196	33	246		58	296	(116)	83	166
9	198	34	248		59	298	(118)	84	168
10*	200	35	250		60*	300	(120)	85	170
11	202	36	252		61		122	86	172
12	204	37	254		62		124	87	174
13	206	38	256		63		126	88	176
14	208	39	258		64		128	89	178
15	210	40*	260		65		130	90*	180
16	212	41	262		66		132	91	182
17	214	42	264		67		134	92	184
18	216	43	266		68		136	93	186
19	218	44	268		69		138	94	188
20*	220	45	270	(90)	70*		140	95	190
21	222	46	272	(92)	71		142	96	192
22	224	47	274	(94)	72		144	97	194
23	226	48	276	(96)	73		146	98	196
24	228	49	278	(98)	74		148	99	198
25	230	50*	280	(100)	75		150	100*	200

*.....Dot showing the tone changing.
( ).....Unreliable.

1565. Hiroo. **42° 18' 42"N., 143° 19' 42"E.**

FREQ.: 310 kc/s, A2.
CHARACTERISTIC SIGNAL:

	Minutes
(a) Rotating wave (directional).	
HO (●●●● ▬▬▬) 2 times	
A (●▬) 2 times	
Dot (●) 100 times ..... 4 times	4
(b) Circular wave (non-directional).	
HO (●●●● ▬▬▬) 2 times	
Long dash (▬) 2 times..... 4 times	2
Period.....	6

HOURS OF TRANSMISSION: For 6 minutes commencing at 04, 19, 34, and 49 minutes past each hour.
CALIBRATED SECTOR: 50°–170°.
REMARKS: See sec. 155.

Calibration Table for Hiroo

Dots	True direction	Dots	True direction	Dots	True direction	Dots	True direction
1		26	52	51	102	76	152
2		27	54	52	104	77	154
3		28	56	53	106	78	156
4		29	58	54	108	79	158
5		30*	60	55	110	80*	160
6		31	62	56	112	81	162
7		32	64	57	114	82	164
8		33	66	58	116	83	166
9		34	68	59	118	84	168
10*		35	70	60*	120	85	170
11		36	72	61	122	86	
12		37	74	62	124	87	
13		38	76	63	126	88	
14		39	78	64	128	89	
15		40*	80	65	130	90*	
16		41	82	66	132	91	
17		42	84	67	134	92	
18		43	86	68	136	93	
19		44	88	69	138	94	
20*		45	90	70*	140	95	
21		46	92	71	142	96	
22		47	94	72	144	97	
23		48	96	73	146	98	
24		49	98	74	148	99	
25	50	50*	100	75	150	100*	

*.....Dot in higher tone.

1566. Erimo Saki Light Station. **41° 55' 26"N., 143° 14' 51"E.**

FREQ.: 310 kc/s, A2. RANGE: 100 miles.
CHARACTERISTIC SIGNAL: MD (▬▬ ▬▬▬).
HOURS OF TRANSMISSION: For 3 minutes commencing at 10, 25, 40, and 55 minutes past each hour, and on request.

1568. **Chikyu Misaki (Tikyu Misaki).** **42°18'04"N., 141°00'20"E.**
RANGE: 55 miles.

FREQ.: 310 kc/s, A2.

CHARACTERISTIC SIGNAL:

	Minutes
CK (▬•▬• ▬•▬) 2 times	
A (•▬) 2 times	About 1
Dot (•) 100 times	
5 repetitions of above signal	About 5
Period	About 6

CALIBRATED SECTOR: 80°–280°.

HOURS OF TRANSMISSION: For 6 minutes, at 13, 28, 43, and 58 minutes past each hour.

REMARKS: See sec. 155.

Calibration Table for Chikyu Misaki

Dots	True direction	Dots	True direction			True direction	Dots	True direction
1	183	26	238	51	106	278	76	146
2	185	27	240	52	107	280	77	148
3	188	28	242	53	108		78	150
4	191	29	244	54	109		79	153
5	194	30*	246	55	111		80*	155
6	196	31	248	56	112		81	157
7	198	32	250	57	114		82	159
8	200	33	252	58	116		83	161
9	202	34	254	59	118		84	163
10*	205	35	80 256	60*	120		85	165
11	208	36	85 258	61	121		86	167
12	210	37	87 259	62	123		87	170
13	212	38	89 260	63	125		88	173
14	214	39	91 261	64	127		89	176
15	216	40*	93 263	65	129		90*	179
16	218	41	94 265	66	130		91	183
17	220	42	95 266	67	132		92	185
18	222	43	96 267	68	134		93	188
19	224	44	97 268	69	136		94	191
20*	226	45	99 269	70*	138		95	194
21	228	46	101 270	71	140		96	196
22	230	47	102 272	72	142		97	198
23	232	48	103 273	73	143		98	200
24	234	49	104 274	74	144		99	202
25	236	50*	105 276	75	145		100*	205

*.....Dot in higher tone.

1570. **Esan Saki Light Station.** **41°48'44"N., 141°11'12"E.**
FREQ.: 322 kc/s, A2. RANGE: 50 miles.
CHARACTERISTIC SIGNAL: AM (•▬ ▬▬).
HOURS OF TRANSMISSION: For 3 minutes commencing at 08, 23, 38, and 53 minutes past each hour.

1576. **Matsumae (Fukuyama) Light Station.** **41°25'18"N., 140°05'20"E.**
FREQ.: 316 kc/s, A2. POWER: 300 watts.
RANGE: 100 miles.
CHARACTERISTIC SIGNAL: FK (••▬• ▬•▬).
HOURS OF TRANSMISSION: For 6 minutes commencing at 13, 28, 43, and 58 minutes past each hour.

1578. **Aonae Misaki.** **42°03'18"N., 139°27'06"E. (approx).**
FREQ.: 316 kc/s, A2. POWER: 300 watts.
CHARACTERISTIC SIGNAL:

	Minutes
(a) Directional wave	
AO (•▬ ▬▬▬) 2 times	
A (•▬) 2 times	
Dot (•) 100 times	
4 emissions of above signal	4
(b) Circular wave	
AO (•▬ ▬▬▬) 2 times	
2 long dashes	
6 emissions of above signal	3
Period	7

CALIBRATED SECTOR: 059°–300°.
HOURS OF TRANSMISSION: For 7 minutes commencing at 06, 21, 36, and 51 minutes past each hour.
REMARKS: See sec. 155.

Calibration Table for Aonae Misaki

Dots	True direction	Dots	True direction	Dots	True direction	Dots	True direction
1	182	26	232	51	99 282	76	152
2	184	27	234	52	101 284	77	154
3	186	28	236	53	103 286	78	156
4	188	29	238	54	105 288	79	158
5	190	30*	240	55	107 290	80*	160
6	192	31	242	56	110 292	81	162
7	194	32	59 244	57	112 294	82	164
8	195	33	61 246	58	114 296	83	166
9	196	34	63 248	59	116 298	84	168
10*	198	35	65 250	60*	118 300	85	170
11	200	36	67 252	61	122	86	172
12	202	37	71 254	62	124	87	174
13	204	38	73 256	63	126	88	176
14	206	39	75 258	64	128	89	178
15	208	40*	77 260	65	130	90*	180
16	210	41	79 262	66	132	91	182
17	212	42	81 264	67	134	92	184
18	214	43	83 266	68	136	93	186
19	216	44	85 268	69	138	94	188
20*	228	45	87 270	70*	140	95	190
21	220	46	89 272	71	142	96	142
22	222	47	91 274	72	144	97	194
23	224	48	93 276	73	146	98	195
24	226	49	95 278	74	148	99	196
25	230	50*	97 280	75	150	100*	198

*.....Dot in higher tone.

1581. **Teshio.**

44°52.6'N., 141°44.9'E.
POWER: 300 watts.

FREQ.: 292 kc., A2.
CHARACTERISTIC SIGNAL:
(a) Rotating wave (directional)

	Minutes
TC (— —•—•) 2 times A (•—) 2 times Dot (•) 100 times — 4 times	4
(b) Circular wave (non-directional) TC (— —•—•) 2 times Long dash (—) 2 times — 4 times	2
Period	6

HOURS OF TRANSMISSION: For 6 minutes commencing at 03, 18, 33 and 48 minutes past each hour.
CALIBRATED SECTOR: 190° to 330°.
REMARKS: See sec. 155.

1581.5 **Wakkanai Ko.**

45°23'40"N., 141°41'10"E.
RANGE: 10 miles.

FREQ.: 9310 mc., P1.
DIRECTIONAL RANGE: 223°.
CHARACTERISTIC SIGNAL: Continuous sound on range.
D (—••) right side of range.
U (••—) left side of range.
HOURS OF TRANSMISSION: Continuous.

1582. Yakishiri Jima. 44°25.7'N., 141°25.7'E. (approx.).
POWER: 300 watts.

FREQ.: 292 kc., A2.
CHARACTERISTIC SIGNAL:

	Minutes
(a) Circular wave (non-directional).	
YG YG (▬•▬▬ ▬▬• ▬•▬▬ ▬▬•) 2 long dashes, 4 times	2
(b) Rotating wave (directional).	
YG (▬•▬▬ ▬▬•) 2 times	1
A (•▬) 2 times	
Dot (•) 100 times	3
3 repetitions of the above signal	
Period	6

HOURS OF TRANSMISSION: For 6 minutes commencing at 12, 27, 42, and 57 minutes past each hour.
CALIBRATED SECTOR: 030° to 270°.
REMARKS: See sec. 155.

Calibration Table for Yakishiri Jima

Dots	True direction	Dots	True direction	Dots	True direction	Dots	True direction
1	182	26	232 52	51	102	76	152
2	184	27	234 54	52	104	77	154
3	186	28	236 56	53	106	78	156
4	188	29	238 58	54	108	79	158
5	190	30*	240 60	55	110	80*	160
6	192	31	242 62	56	112	81	162
7	194	32	244 64	57	114	82	164
8	196	33	246 66	58	116	83	166
9	198	34	248 68	59	118	84	168
10*	200	35	250 70	60*	120	85	170
11	202	36	252 72	61	122	86	172
12	204	37	254 74	62	124	87	174
13	206	38	256 76	63	126	88	176
14	208	39	258 78	64	128	89	178
15	210 30	40*	260 80	65	130	90*	180
16	212 32	41	262 82	66	132	91	182
17	214 34	42	264 84	67	134	92	184
18	216 36	43	266 86	68	136	93	186
19	218 38	44	268 88	69	138	94	188
20*	220 40	45	270 90	70*	140	95	190
21	222 42	46	92	71	142	96	192
22	224 44	47	94	72	144	97	194
23	226 46	48	96	73	146	98	196
24	228 48	49	98	74	148	99	198
25	230 50	50*	100	75	150	100*	200

*.....Dot in higher tone.

1585. Toppi Saki. 41°15'23"N., 140°20'46"E.
POWER: 450 watts.

FREQ.: 288 kc., A2.
CHARACTERISTIC SIGNAL:

	Minutes
(a) Rotating wave (directional).	
TP (▬ •▬▬•) 2 times	4
A (•▬) 2 times — 4 times	
Dot (•) 100 times	
(b) Circular wave (non-directional).	
TP (▬ •▬▬•) 2 times	3
Long dash (▬) 2 times — 6 times	
Period	7

HOURS OF TRANSMISSION: For 7 minutes commencing at 02, 17, 32, and 47 minutes past each hour.
REMARKS: See sec. 155.
NOTE: Calibration table will be published when available.

1596. **Omo Saki Light Station.** **41° 33' 07"N., 140° 54' 55"E.**
RANGE: 50 miles.
FREQ.: 288 kc/s, A1, A2.
CHARACTERISTIC SIGNAL: AZ (•▬ ▬▬••).
HOURS OF TRANSMISSION: For 6 minute periods commencing at 09, 24, 39, and 54 minutes past each hour.

1598. **Shiriya Saki.** **41° 25' 38"N., 141° 27' 44"E.**
POWER: 450 watts.
FREQ.: 322 kc/s, A2.
CHARACTERISTIC SIGNAL:

		Minutes
(a) Rotating wave (directional).		
YA (▬•▬▬ •▬) 2 times		
A (•▬) 2 times		
Dot (•) 100 times	4 times	4
(b) Circular wave (non-directional).		
YA (▬•▬▬ •▬) 2 times		
Long dash (▬) 2 times	4 times	2
Period		6

HOURS OF TRANSMISSION: One transmission at 02, 17, 32, and 47 minutes past each hour.
CALIBRATED SECTOR: 270°–170°.
REMARKS: See sec. 155.

Calibration Table for Shiriya Saki

Dots	True direction	Dots	True direction	Dots	True direction	Dots	True direction
1	2	26	52	51	282 102	76	332 152
2	4	27	54	52	284 104	77	334 154
3	6	28	56	53	286 106	78	336 156
4	8	29	58	54	288 108	79	338 158
5	10	30*	60	55	290 110	80*	340 160
6	12	31	62	56	292 112	81	342 162
7	14	32	64	57	294 114	82	344 164
8	16	33	66	58	296 116	83	346 166
9	18	34	68	59	298 118	84	348 168
10*	20	35	70	60*	300 120	85	350 170
11	22	36	72	61	302 122	86	352
12	24	37	74	62	304 124	87	354
13	26	38	76	63	306 126	88	356
14	28	39	78	64	308 128	89	358
15	30	40*	80	65	310 130	90*	0
16	32	41	82	66	312 132	91	2
17	34	42	84	67	314 134	92	4
18	36	43	86	68	316 136	93	6
19	38	44	88	69	318 138	94	8
20*	40	45	270 90	70*	320 140	95	10
21	42	46	272 92	71	322 142	96	12
22	44	47	274 94	72	324 144	97	14
23	46	48	276 96	73	326 146	98	16
24	48	49	278 98	74	328 148	99	18
25	50	50*	280 100	75	330 150	100*	20

*.....Dot in higher tone.

1600. Same Kaku. 40°32'12"N., 141°34'48"E.

FREQ.: 322 kc/s, A2. POWER: 300 watts.

CHARACTERISTIC SIGNAL: Minutes

KD (▬•▬ ▬••) 2 times

Commencement signal A (•▬) 2 times

Dot (•) 100 times 1

Above signal transmitted 6 times 6

HOURS OF TRANSMISSION: One transmission commencing at 11, 26, 41, and 56 minutes past each hour.

CALIBRATED SECTOR: 310°–155°.

REMARKS: See sec. 155.

Calibration Table for Same Kaku

Dots	True direction	Dots	True direction	Dots	True direction	Dots	True direction
1	2	26	52	51	102	76	332 152
2	4	27	54	52	104	77	334 154
3	6	28	56	53	106	78	336 156
4	8	29	58	54	108	79	338 158
5	10	30*	60	55	110	80*	340 160
6	12	31	62	56	112	81	342 162
7	14	32	64	57	114	82	344 164
8	16	33	66	58	116	83	346 166
9	18	34	68	59	118	84	348 168
10*	20	35	70	60*	120	85	350 170
11	22	36	72	61	122	86	352 172
12	24	37	74	62	124	87	354 174
13	26	38	76	63	126	88	356 176
14	28	39	78	64	128	89	358 178
15	30	40*	80	65	310 130	90*	360 180
16	32	41	82	66	312 132	91	2 182
17	34	42	84	67	314 134	92	4 184
18	36	43	86	68	316 136	93	6 186
19	38	44	88	69	318 138	94	8 188
20*	40	45	90	70*	320 140	95	10 190
21	42	46	92	71	322 142	96	12 192
22	44	47	94	72	324 144	97	14 194
23	46	48	96	73	326 146	98	16 196
24	48	49	98	74	328 148	99	18 198
25	50	50*	100	75	330 150	100*	20 200

*.....Dot in higher tone.

1602. Todo Saki. **39°32.6'N., 142°04.4'E.**
POWER: 260 watts.

FREQ.: 295 kc/s, A2.
CHARACTERISTIC SIGNAL:

		Minutes
(a) Circular wave (non-directional)		
TD (▬ ▬●●) 2 times		
Long dash (▬) 2 times	8 times	4
(b) Rotating wave (directional)		
TD (▬ ▬●●) 2 times		
A (●▬) 2 times		
Dot (●) 100 times	4 times	4
Period		8

HOURS OF TRANSMISSION: For 8 minutes commencing at 04, 19, 34, and 49 minutes past each hour.
CALIBRATED SECTOR: 354°–180°.
REMARKS: See sec. 155.

1602.3 Ryori Saki. **39°01'45"N., 141°51'30"E.**
RANGE: 30 miles.

FREQ.: 9310 Mc/s, PO, P9.
CHARACTERISTIC SIGNAL:
Group of 4 dots (commencement signal).
Dots (176) every fifth dot, tone changes.
Long dash (▬) (high tone).
Period: 72 seconds.
CALIBRATED SECTOR: 040°–258° except within 2 miles of the coast between 048° and 080°.
HOURS OF TRANSMISSIDN: Continuous.
REMARKS: After the commencement signal, count the number of dots to the least audible (or inaudible) dot. This number doubled is the ship's true bearing from the radiobeacon. If an interval of silence occurs, the dot count is estimated to the center of the silent interval and this number doubled to obtain the true bearing.

1603. **Ofunato Ko (Directional).** **39° 01.7' N., 141° 43.0' E.**

FREQ.: 9310 Ms/s, P1. RANGE: 10 miles.
DIRECTIONAL RANGE: 307° 30'.
CHARACTERISTIC SIGNAL: Continuous sound on range.
D (▬ ● ●) right side of range.
U (● ● ▬) left side of range.
HOURS OF TRANSMISSION: Continuous.

1604. **Kinkasan.** **38° 16' 32" N., 141° 35' 05" E.**

FREQ.: 305 kc/s, A2. POWER: 260 watts.
CHARACTERISTIC SIGNAL:

		Minutes
(a) Rotating wave (directional).		
KA (▬ ● ▬ ● ▬) 2 times		
A ● ▬) 2 times		
Dot (●) 100 times	5 times	5
(b) Circular wave (non-directional).		
KA (▬ ● ▬ ● ▬) 2 times		
Long dash (▬) 2 times	6 times	3
Silent		7
Period		15

HOURS OF TRANSMISSION: Continuous, commencing at 11 minutes past each hour.
REMARKS: See sec. 155.
NOTE: Calibrated sector and calibration table will be published when available.

1605. Unoo Saki. **37° 49' 12"N., 140° 59' 23"E.**

FREQ.: 305 kc/s, A2. POWER: 300 watts.

CHARACTERISTIC SIGNAL: Minutes

(a) Circular wave (non-directional)

UN (•▬▬ ▬•) 2 times

Long dash (▬) 2 times ..... 4 times 2

(b) Rotating wave (directional)

UN (•▬▬ ▬•) 2 times

A (•▬) 2 times

Dot (•) 100 times ..... 3 times 3

Period 5

HOURS OF TRANSMISSION: For 5 minutes commencing at 04, 19, 34, and 49 minutes past each hour.

CALIBRATED SECTOR: 336°–168°. Unreliable in sectors 336°–360° and 166°–168°.

REMARKS: See sec. 155.

Calibration Table for Unoo Saki

Dots	True Direction	Dots	True direction	Dots	True direction	Dots	True Direction
1	2	26	52	51	102	76	152
2	4	27	54	52	104	77	154
3	6	28	56	53	106	78	156 (336)
4	8	29	58	54	108	79	158 (338)
5	10	30*	60	55	110	80*	160 (340)
6	12	31	62	56	112	81	162 (342)
7	14	32	64	57	114	82	164 (344)
8	16	33	66	58	116	83	(166) (346)
9	18	34	68	59	118	84	(168) (348)
10*	20	35	70	60*	120	85	(350)
11	22	36	72	61	122	86	(352)
12	24	37	74	62	124	87	(354)
13	26	38	76	63	126	88	(356)
14	28	39	78	64	128	89	(358)
15	30	40*	80	65	130	90*	(0)
16	32	41	82	66	132	91	2
17	34	42	84	67	134	92	4
18	36	43	86	68	136	93	6
19	38	44	88	69	138	94	8
20*	40	45	90	70*	140	95	10
21	42	46	92	71	142	96	12
22	44	47	94	72	144	97	14
23	46	48	96	73	146	98	16
24	48	49	98	74	148	99	18
25	50	50*	100	75	150	100*	20

*.....Dot in higher tone.
( ).....Unreliable.

1606. **Shioya Misaki (Shioyazaki) Light Station.** **36° 59' 31"N., 140° 59' 07"E.**
FREQ.: 313 kc/s, A2. RANGE: 75 miles.
CHARACTERISTIC SIGNAL: TM (▬ ▬▬) for 7 minutes.
HOURS OF TRANSMISSION: For 7 minutes commencing at 09, 24, 39, and 54 minutes past each hour.

1608. **Iso Saki.** **36° 22' 50"N., 140° 37' 46"E.**
FREQ.: 1921 kc/s, A2. POWER: 360 watts.
CHARACTERISTIC SIGNAL:

Signal group:	Minutes
YS (▬•▬▬ •••) 3 times	
A (•▬) 2 times	
Dot (•) 89 times	
D (▬••) 2 times	1.5
3 repetitions of the above signal group	4.5
Period	6.0

HOURS OF TRANSMISSION: One emission at 03, 13, 23, 33, 43, and 53 minutes past each hour.
CALIBRATED SECTOR: 004° to 180°.
REMARKS: See sec. 155.

Calibration Table for Iso Saki

Dots	True Direction	Dots	True direction	Dots	True direction	Dots	True Direction
1	4	26	52	51	102	76	152
2	6	27	54	52	104	77	154
3	8	28	56	53	106	78	158
4	10	29	58	54	108	79	160
5	12	30*	60	55	110	80*	162
6	14	31	62	56	112	81	164
7	16	32	64	57	114	82	(166)
8	18	33	66	58	116	83	(168)
9	20	34	68	59	118	84	(170)
10*	22	35	70	60*	120	85	(172)
11	24	36	72	61	122	86	(174)
12	26	37	74	62	124	87	(176)
13	28	38	76	63	126	88	(178)
14	30	39	78	64	128	89	(180)
15	31	40*	80	65	130		
16	32	41	82	66	132		
17	34	42	84	67	134		
18	36	43	86	68	136		
19	38	44	88	69	138		
20*	40	45	90	70*	140		
21	42	46	92	71	142		
22	44	47	94	72	144		
23	46	48	96	73	146		
24	48	49	98	74	148		
25	50	50*	100	75	150		

*.....Dot in higher tone.
( ).....Unreliable.

1610. Inubo Saki Light Station.

35°42'17"N., 140°52'19"E.
POWER: 450 watts.
RANGE: 75 miles.

FREQ.: 313 kc., A2.

CHARACTERISTIC SIGNAL: IY (•• −•−−).
HOURS OF TRANSMISSION: For 3 minutes commencing at 06, 21, 36 and 51 minutes past each hour.
REMARKS: Watch maintained on 410 kc. and 500 kc.

1611. Katsuura Ko.

35°08.2'N., 140°19.3'E.
POWER: 300 watts.

FREQ.: 313 kc., A2.
CHARACTERISTIC SIGNAL:

		Minutes
(a) Rotating wave (directional).		
KT (−•−− −) 2 times A (•−) 2 times Dot (•) 100 times	3 times	3
(b) Circular wave (non-directional).		
KT (−•−− −) 2 times Long dash 2 times	4 times	2
Period		5

HOURS OF TRANSMISSION: For five minutes commencing at 01, 16, 31, and 46 minutes past each hour.
CALIBRATED SECTOR: 50°–250°.
REMARKS: See sec. 155.
NOTE: Calibration table will be published when available.

1612. Nojima Zaki Light Station (JLA).

34°53'54"N., 139°53'30"E.
POWER: 150 watts.
RANGE: 75 miles.

FREQ.: 290 kc., A2.

CHARACTERISTIC SIGNAL: NM (−• −−).
HOURS OF TRANSMISSION: For 3 minutes commencing at 09, 24, 39 and 54 minutes past each hour.
REMARKS: Watch maintained on 410 kc. and 500 kc.
NOTE: See Station 2555 for Ramark.

1614. **Hachijo Jima.** 33°04'36"N., 139°51'18"E.
POWER: 450 watts.
RANGE: 100 miles.

FREQ.: 319 kc., A2.

CHARACTERISTIC SIGNAL:
CJ (▬•▬• •▬▬▬) 2 times
Long dash 2 times
} 3 minutes.
3 repetitions of above signal

HOURS OF TRANSMISSION: At 03, 18, 33, and 48 minutes past each hour, and on request
REMARKS: Watch maintained on 410 kc and 500 kc

1616. **Tsurugi Saki.** 35°08'17"N., 139°40'40"E.
POWER: 450 watts.
RANGE: 55 miles.

FREQ.: 290 kc., A2.

CHARACTERISTIC SIGNAL:		Minutes
TG (▬ ▬▬•)	2 times	1
Directional signal:		
A (•▬)	2 times	
Dots (•)	100 times	
3 repetitions of above signal		3
Period		4

HOURS OF TRANSMISSION: For 4 minutes commencing at 05, 20, 35, and 50 minutes past each hour.
CALIBRATED SECTOR: 090°–270°.
REMARKS: See sec. 155.

Calibration Table for Tsurugi Saki

Dots	True direction	Dots	True direction	Dots	True direction	Dots	True direction
1	187	26	235	51	100	76	156
2	189	27	237	52	102	77	158
3	191	28	239	53	104	78	160
4	193	29	241	54	106	79	162
5	195	30*	243	55	108	80*	164
6	197	31	245	56	110	81	166
7	199	32	246	57	112	82	169
8	201	33	248	58	114	83	171
9	203	34	250	59	116	84	173
10*	205	35	252	60*	118	85	175
11	207	36	254	61	120	86	177
12	209	37	256	62	122	87	179
13	211	38	258	63	124	88	181
14	213	39	260	64	126	89	183
15	215	40*	262	65	130	90*	185
16	217	41	264	66	134	91	187
17	219	42	266	67	136	92	189
18	221	43	268	68	138	93	191
19	223	44	270		140	94	193
20*	225	45		70*	142	95	195
21	226	46	90	71	144	96	197
22	228	47	92	72	146	97	199
23	230	48	94	73	148	98	201
24	231	49	96	74	150	99	203
25	233	50*	98	75	152	100*	205

*.....Dot in higher tone.

1618. **Izu O Shima Light Station (JLI).**
FREQ.: 290 kc., A2.
CHARACTERISTIC SIGNAL: LA (•▬•• •▬).
34°47' 39"N., 139°22' 31"E.
RANGE: 160 miles.
HOURS OF TRANSMISSION: For 3 minutes commencing at 12, 27, 42, and 57 minutes past each hour; also on request.
REMARKS: Call station on 410, 500 kc.

1620. **Iro-Saki Light Station (JLJ).**
FREQ.: 319 kc., A2.
CHARACTERISTIC SIGNAL: CT (▬•▬• ▬).
34°35' 58"N., 138°50' 53"E.
RANGE: 75 miles.
HOURS OF TRANSMISSION: For 3 minutes commencing at 09, 24, 39, and 54 minutes past each hour; also on request.
REMARKS: Call station on 410, 500 kc.

1622. **Omae Zaki.**
FREQ.: 319 kc., A2.
34°35' 37"N., 138° 13' 28"E.
RANGE: 54 miles.
CHARACTERISTIC SIGNAL:
OA (▬▬▬ •▬) ---------- Twice.
Commencement signal A(•▬) ---------- Twice.
Dots (tone changes every tenth dot) ---------- 100 times.
5 repetitions of above signal ---------- 5 minutes.
Period ---------- 6 minutes.
HOURS OF TRANSMISSION: For 6 minutes commencing at 12, 27, 42 and 57 minutes past the hour.
REMARKS: See sec. 155.

Calibration Table for Omae Zaki

Dots	True direction	Dots	True direction	Dots	True direction	Dots	True direction
1	182	26	232	51	(102)	76	152
2	184	27	234	52	(104)	77	154
3	186	28	236	53	(106)	78	156
4	188	29	238	54	(108)	79	158
5	190	30*	240	55	(110)	80*	160
6	192	31	242	56	112	81	162
7	194	32	244	57	114	82	164
8	196	33	246	58	116	83	166
9	198	34	248	59	118	84	168
10*	200	35	251	60*	120	85	170
11	202	36	253	61	122	86	172
12	204	37	255	62	124	87	174
13	206	38	257	63	126	88	176
14	208	39	259	64	128	89	178
15	210	40*	261	65	130	90*	180
16	212	41	263	66	132	91	182
17	214	42	265	67	134	92	184
18	216	43	267	68	136	93	186
19	218	44	269	69	138	94	188
20*	220	45	271	70*	140	95	190
21	222	46	(92)	71	142	96	192
22	224	47	(94)	72	144	97	194
23	226	48	(96)	73	146	98	196
24	228	49	(98)	74	148	99	198
25	230	50*	(100)	75	150	100*	200

*.....Dot showing the tone changing.
( ).....Unreliable.

1624. Daio Zaki. 34°16'30"N., 136°54'14"E.
RANGE: 55 miles.

FREQ.: 303 kc., A2.
CHARACTERISTIC SIGNAL:

		Minutes
(a) Circular wave		
OZ (▬▬ ▬▬••) 2 times		
Long dash ---------- 2 times		
5 repetitions		3
(b) Directional rotating wave		
OZ (▬▬ ▬▬••) 2 times		
A (•▬) 2 times	6 times	6
Dots E (•) 100 times		
Period		9

HOURS OF TRANSMISSION: For 9 minute periods, commencing at 00, 15, 30, and 45 minutes past each hour.
CALIBRATED SECTOR: 002°–244°.
REMARKS: See sec. 155.

Calibration Table for Daio Zaki

Dots	True direction		Dots	True direction		Dots	True direction	Dots	True direction
1	2	186	26	50	234	51	98	76	156
2	4	188	27	52	235	52	100	77	158
3	6	190	28	54	236	53	102	78	160
4	8	192	29	56	238	54	104	79	162
5	10	194	30*	58	240	55	106	80*	164
6	12	196	31	60	242	56	110	81	166
7	14	198	32	62	244	57	112	82	168
8	16	200	33	64		58	114	83	170
9	18	202	34	66		59	116	84	172
10*	20	204	35	68		60*	118	85	174
11	22	208	36	70		61	120	86	176
12	24	210	37	71		62	124	87	178
13	26	212	38	72		63	126	88	180
14	28	214	39	74		64	128	89	182
15	29	216	40*	76		65	132	90*	184
16	30	218	41	78		66	134	91	186
17	32	220	42	80		67	136	92	188
18	34	222	43	82		68	138	93	190
19	36	224	44	84		69	140	94	192
20*	38	226	45	86		70*	142	95	194
21	40	227	46	88		71	144	96	196
22	42	228	47	90		72	146	97	198
23	44	229	48	92		73	150	98	200
24	46	230	49	94		74	152	99	202
25	48	232	50*	96		75	154	100*	204

*.....Dot in higher tone.

1626. Shiono Misaki.

33°26'40"N., 135°45'21"E.
RANGE: 55 miles.

FREQ.: 303 kc., A2.
CHARACTERISTIC SIGNAL:

	Minutes
SM (••• ▬▬) 2 times	
A (•▬) 2 times	
Signal group.	1
Dot (•) 100 times	
5 repetitions of the above signal	5
Period	6

HOURS OF TRANSMISSION: At 09, 24, 39 and 54 minutes past the hour and on request.
CALIBRATED SECTOR: 060°–290°.
REMARKS: See sec. 155.

Calibration Table for Shiono Misaki

Dots	True direction	Dots	True direction	Dots	True direction	Dots	True direction
1	182	26	232	51	102 282	76	152
2	184	27	234	52	104 284	77	154
3	186	28	236	53	106 286	78	156
4	188	29	238	54	108 288	79	158
5	190	30*	60 240	55	110 290	80*	160
6	192	31	62 242	56	112	81	162
7	194	32	64 244	57	114	82	164
7	194	32	64 244	57	114	82	164
8	196	33	66 246	58	116	83	166
9	198	34	68 248	59	118	84	168
10*	200	35	70 250	60*	120	85	170
11	202	36	72 252	61	122	86	172
12	204	37	74 254	62	124	87	174
13	206	38	76 256	63	126	88	176
14	208	39	78 258	64	128	89	178
15	210	40*	80 260	65	130	90*	180
16	212	41	82 262	66	132	91	182
17	214	42	84 264	67	134	92	154
18	216	43	86 266	68	136	93	186
19	218	44	88 268	69	138	94	188
20*	220	45	90 270	70*	140	95	190
21	222	46	92 272	71	142	96	192
22	224	47	94 274	72	144	97	194
23	226	48	96 276	73	146	98	196
24	228	49	98 278	74	148	99	198
25	230	50*	100 280	75	150	100*	200

*- - - - -Dot in high tone.

1628. Hino Misake. 33°52'46"N., 135°03'51"E.
POWER: 300 watts.

FREQ.: 292 kc., A2.
CHARACTERISTIC SIGNAL:

	Minutes
(a) Circular wave (non-directional)	
HN HN —— —— (•••• ▬• •••• ▬• —— ——) 4 times	2
(b) Directional rotating wave	
HN (•••• ▬•) 2 times	1
A (•▬) 2 times	
Dot (•) 100 times	2
2 repetitions of above signal	
Period	5

HOURS OF TRANSMISSION: For 5 minutes commencing at 13, 28, 43 and 58 minutes past each hour.
CALIBRATED SECTOR: 135°–340°.
REMARKS: See sec. 155.

Calibration Table for Hino Misaki

Dots	True direction	Dots	True direction	Dots	True direction	Dots	True direction
1	182	26	232	51	282	76	332 152
2	184	27	234	52	284	77	334 154
3	186	28	236	53	286	78	336 156
4	188	29	238	54	288	79	338 158
5	190	30*	240	55	290	80*	340 160
6	192	31	242	56	292	81	162
7	194	32	244	57	294	82	164
8	196	33	246	58	296	83	166
9	198	34	248	59	298	84	168
10*	200	35	250	60*	300	85	170
11	202	36	252	61	302	86	172
12	204	37	254	62	304	87	174
13	206	38	256	63	306	88	176
14	208	39	258	64	308	89	178
15	210	40*	260	65	310	90*	180
16	212	41	262	66	312	91	182
17	214	42	264	67	314 134	92	184
18	216	43	266	68	316 136	93	186
19	218	44	268	69	318 138	94	188
20*	220	45	270	70*	320 140	95	190
21	222	46	272	71	322 142	96	192
22	224	47	274	72	324 144	97	194
23	226	48	276	73	326 146	98	196
24	228	49	278	74	328 148	99	198
25	230	50*	280	75	330 150	100*	200

*.....Dot in higher tone.

1630 Muroto Zaki.

33°14'54"N., 134°10'46"E.
RANGE: 100 miles.

FREQ.: 292 kc., A2.
CHARACTERISTIC SIGNAL:
(a) Circular wave
MT (▬ ▬ ▬) 2 times
Long dash (▬) 2 times
4 repetitions of above signal } 2 minutes.
(b) Directional wave
MT (▬ ▬ ▬) 2 times
A (•▬) 2 times
Dot (•) 100 times
2 repetitions of above signal } 3 minutes.
HOURS OF TRANSMISSION: For 5 minutes commencing at 03, 18, 33, and 48 minutes past each hour.
REMARKS: See sec. 155.

Calibration Table for Muroto Zaki

Dots	True direction	Dots	True direction	Dots	True direction	Dots	True direction
1	171	26	234	51	113 282	76	151
2	173	27	236	52	115 284	77	152
3	175	28	238	53	117 286	78	153
4	177	29	(43) 240	54	119 288	79	155
5	179	30*	(46) 242	55	120 290	80*	156
6	182	31	(49) 244	56	121 292	81	157
7	185	32	(52) 246	57	123 294	82	158
8	189	33	(54) 248	58	124 296	83	159
9	193	34	(57) 250	59	126 298	84	161
10*	195	35	(60) 251	60*	127 300	85	162
11	197	36	(63) 252	61	128	86	163
12	199	37	(66) 254	62	130	87	164
13	201	38	(69) 256	63	131	88	166
14	203	39	72 258	64	132	89	168
15	206	40*	75 260	65	134	90*	169
16	208	41	78 262	66	135	91	171
17	211	42	81 264	67	137	92	173
18	215	43	85 266	68	139	93	175
19	218	44	89 268	69	140	94	177
20*	220	45	93 270	70*	142	95	179
21	222	46	97 272	71	143	96	182
22	225	47	100 274	72	145	97	185
23	227	48	103 276	73	146	98	189
24	230	49	107 278	74	148	99	193
25	232	50*	111 280	75	150	100*	195

*.....Dot in higher tone.
( ).....Unreliable.

1632. **Ashizuri Zaki.** **32°43'21"N., 133°01'14"E.**
POWER: 450 watts.

FREQ.: 313 kc., A2.
CHARACTERISTIC SIGNAL:
AR (•▬ •▬•)- - - - - - twice } 1 minute.
Commencement signal A (•▬) - - - - - - twice } 1 minute.
Dots (•) - - - - - - 100 times } 1 minute.
Signal repeated 5 times - - - - - - 5 minutes.
Period - - - - - - 6 minutes.
HOURS OF TRANSMISSION: Commencing at 08, 20, 32, 44, and 56 minutes past each hour.
CALIBRATED SECTOR: 040°–250°.
REMARKS: See sec. 155.

Calibration Table for Ashizuri Zaki

Dots	True direction	Dots	True direction	Dots	True direction	Dots	True direction
1	194	26	45 244	51	92	76	152
2	196	27	47 245	52	94	77	154
3	198	28	49 246	53	96	78	156
4	200	29	51 248	54	98	79	158
5	202	30*	53 250	55	100	80*	161
6	204	31	55	56	103	81	164
7	206	32	57	57	106	82	167
8	208	33	59	58	110	83	170
9	210	34	61	59	113	84	173
10*	212	35	63	60*	116	85	176
11	215	36	65	61	119	86	179
12	218	37	66	62	122	87	182
13	220	38	67	63	125	88	185
14	222	39	69	64	128	89	188
15	224	40*	70	65	130	90*	191
16	226	41	72	66	132	91	194
17	228	42	74	67	134	92	196
18	230	43	76	68	136	93	198
19	232	44	78	69	138	94	200
20*	234	45	80	70*	140	95	202
21	236	46	82	71	142	96	204
22	238	47	84	72	144	97	206
23	240	48	86	73	146	98	208
24	41 241	49	88	74	148	99	210
25	43 243	50*	90	75	150	100*	212

*.....Dot in higher tone.

1634. Toi Misaki. **31°22'12"N., 131°20'12"E.**

FREQ.: 313 kc., A2. POWER: 450 watts.

CHARACTERISTIC SIGNAL:

(a) Rotating wave (directional).

		Minutes
T1 (▬ ●●) 2 times A (●▬) 2 times Dot (●) 100 times	4 times	4

(b) Circular wave (non-directional).

T1 (▬ ●●) 2 times Long dash (▬▬) 2 times	4 times	2
Period		6

HOURS OF TRANSMISSION: For 6 minutes commencing at 02, 14, 26, 38, and 50 minutes past each hour.

CALIBRATED SECTOR: 036°–216°.

REMARKS: See sec. 155.

Calibration Table for Toi Misaki

Dots	True direction	Dots	True direction	Dots	True direction	Dots	True direction
1	182	26	52	51	102	76	152
2	184	27	54	52	104	77	154
3	186	28	56	53	106	78	156
4	188	29	58	54	108	79	158
5	190	30*	60	55	110	80*	160
6	192	31	62	56	112	81	162
7	194	32	64	57	114	82	164
8	196	33	66	58	116	83	166
9	198	34	68	59	118	84	168
10*	200	35	70	60*	120	85	170
11	202	36	72	61	122	86	172
12	204	37	74	62	124	87	174
13	206	38	76	63	126	88	176
14	208	39	78	64	128	89	178
15	210	40*	80	65	130	90*	180
16	212	41	82	66	132	91	182
17	214	42	84	67	134	92	184
18	216	43	86	68	136	93	186
19	38	44	88	69	138	94	188
20*	40	45	90	70*	140	95	190
21	42	46	92	71	142	96	192
22	44	47	94	72	144	97	194
23	46	48	96	73	146	98	196
24	48	49	98	74	148	99	198
25	50	50*	100	75	150	100*	200

*.....Dot in higher tone.

1638. Me Shima (Danjo Gunto) (JLZ). 31°59'19"N., 128°21'10"E.

FREQ.: 319 kc., A2. RANGE: 100 miles.

CHARACTERISTIC SIGNAL:

		Minutes
(a) Rotating wave (directional)		
MM (▬▬ ▬▬) 2 times A (•▬) 2 times Dot (•) 100 times	3 times	3
(b) Circular wave (non-directional)		
MM (▬▬ ▬▬) 2 times Long dash 2 times	4 times	2
Period		5

HOURS OF TRANSMISSION: At 03, 15, 27, 39, and 51 minutes past each hour.

REMARKS: See sec. 155.

Calibration Table for Me Shima

Dot	True direction		Dot	True direction		Dot	True direction		Dot	True direction	
1	2	180	26	45	232	51	100	279	76	151	336
2	4	182	27	46	235	52	101	281	77	153	338
3	6	184	28	48	238	53	103	283	78	155	340
4	8	186	29	50	241	54	105	285	79	157	341
5	10	188	30*	53	244	55	107	(288)	80*	159	342
6	12	190	31	(56)	247	56	109	(292)	81	160	343
7	14	192	32	(58)	250	57	111	(296)	82	162	344
8	17	194	33	(60)	253	58	113	(300)	83	164	346
9	20	196	34	(62)	256	59	115	(302)	84	166	348
10*	22	198	35	(64)	258	60*	117	(304)	85	168	350
11	24	200	36	(66)	260	61	119	(306)	86	170	352
12	26	203	37	(68)	261	62	121	(308)	87	172	354
13	28	206	38	(71)	262	63	123	(310)	88	174	356
14	30	209	39	(74)	263	64	125	(311)	89	176	358
15	32	211	40*	(77)	264	65	127	(312)	90*	178	0
16	34	213	41	(80)	265	66	129	(313)	91	180	2
17	36	215	42	(83)	267	67	131	(314)	92	182	4
18	37	217	43	86	268	68	133	315	93	184	6
19	38	219	44	88	270	69	136	316	94	186	8
20*	39	220	45	90	271	70*	139	317	95	188	10
21	40	222	46	92	272	71	141	318	96	190	12
22	41	224	47	94	274	72	143	320	97	192	14
23	42	226	48	96	275	73	145	324	98	194	17
24	43	228	49	98	276	74	147	328	99	196	20
25	44	230	50*	99	277	75	149	332	100*	198	22

* ..... Dot in higher tone.
( ) ..... Unreliable.

1640. Ose Zaki. 32°36'49"N., 128°36'29"E.

FREQ.: 319 kc., A2. POWER: 300 watts.

CHARACTERISTIC SIGNAL:

		Minutes
(a) Circular wave (non-directional)		
OU (▬ ▬ ▬ •• ▬) 2 times		
Long dash (▬) 2 times	4 times	2
(b) Rotating wave (directional)		
OU (▬ ▬ ▬ •• ▬) 2 times		
A (•▬) 2 times		
Dot (•) 100 times	5 times	5
Period		7

HOURS OF TRANSMISSION: AT 08, 20, 32, 44 and 56 minutes past each hour.

CALIBRATED SECTOR: 145°–010°.

REMARKS: See sec. 155.

Calibration Table for Ose Zaki

Dots	True Direction		Dots	True direction	Dots	True direction		Dots	True Direction	
1	358	192	26	228	51		300	76	162	327
2	359	194	27	230	52		302	77	164	328
3	2	196	28	232	53		304	78	166	329
4	5	197	29	234	54		305	79	168	330
5	8	198	30*	236	55		306	80*	170	333
6	11	199	31	238	56		307	81	172	336
7		200	32	240	57		308	82	174	339
8		201	33	242	58		309	83	176	342
9		202	34	244	59		310	84	178	345
10*		203	35	246	60*		311	85	180	348
11		204	36	248	61		312	86	182	351
12		205	37	252	62		313	87	184	354
13		206	38	256	63		314	88	186	355
14		207	39	260	64		315	89	188	356
15		208	40*	264	65		316	90*	190	357
16		209	41	268	66		317	91	192	358
17		210	42	272	67		318	92	194	359
18		212	43	276	68		319	93	196	2
19		214	44	280	69		320	94	197	5
20*		216	45	284	70*		321	95	198	8
21		218	46	288	71		322	96	199	11
22		220	47	292	72		323	97	200	
23		222	48	294	73	144	324	98	201	
24		224	49	296	74	152	325	99	202	
25		226	50*	298	75	160	326	100*	203	

* ..... Dot in higher tone.

1644. Wakamiya Shima. 33°51'57"N., 129°41'19"E.

FREQ.: 305 kc., A2. RANGE: 50 miles.

CHARACTERISTIC SIGNAL:

Directional wave (rotating).

	Minutes
NU (▬• •••▬) 2 times	
A (•▬) 2 times	about 1
Dot (•) 100 times	
3 repetitions of above signals	about 3
Period	4

HOURS OF TRANSMISSION: At 12, 27, 42 and 57 minutes past each hour.

CALIBRATED SECTOR: 000° to 360°.

REMARKS: See sec. 155.

Calibration Table for Wakamiya Shima

Dots	True direction		Dots	True direction		Dots	True direction		Dots	True direction	
1	4	184	26	48	232	51	105	274	76	154	334
2	6	186	27	50	234	52	107	276	77	156	336
3	8	188	28	52	235	53	109	279	78	158	338
4	10	189	29	54	236	54	111	282	79	160	340
5	11	190	30*	56	237	55	113	285	80*	162	342
6	12	192	31	58	238	56	115	288	81	164	344
7	13	194	32	60	239	57	117	291	82	166	346
8	15	196	33	62	240	58	119	294	83	168	348
9	17	198	34	64	242	59	121	296	84	170	350
10*	19	200	35	66	244	60*	123	298	85	172	352
11	21	202	36	68	246	61	125	300	86	174	354
12	23	204	37	70	248	62	127	302	87	176	356
13	25	206	38	72	249	63	129	304	88	178	358
14	27	208	39	74	250	64	131	308	89	180	0
15	28	210	40*	76	252	65	133	310	90*	182	2
16	29	212	41	78	254	66	135	312	91	184	4
17	30	214	42	80	256	67	137	314	92	186	6
18	32	216	43	82	258	68	139	316	93	188	8
19	34	218	44	86	260	69	141	318	94	189	10
20*	36	220	45	90	262	70*	143	320	95	190	11
21	38	222	46	94	264	71	144	323	96	192	12
22	40	224	47	97	266	72	146	326	97	194	13
23	42	226	48	99	268	73	148	328	98	196	15
24	44	228	49	101	270	74	150	330	99	198	17
25	46	230	50*	103	272	75	152	332	100*	200	19

*.....Dot in higher tone.

1646. Tsuno Shima. 34°20'42"N., 130°50'36"E.

FREQ.: 305 kc., A2. POWER: 450 watts.

CHARACTERISTIC SIGNAL: Minutes

(a) Circular wave (non-directional).

JM JM (•▬▬▬ ▬▬ •▬▬▬ ▬▬) followed by 2 long dashes, 6 times 3

(b) Rotating wave (directional).

JM (•▬▬▬ ▬▬) 2 times .....
A (•▬) 2 times ..... } 4 times 4
Dot (•) 100 times .....

Period 7

HOURS OF TRANSMISSION: For 7 minutes commencing at 05, 20, 35, and 50 minutes past each hour.

CALIBRATED SECTOR: 172° to 072°.

REMARKS: See sec. 155.

Calibration Table for Tsuno Shima

Dots	True direction		Dots	True direction		Dots	True direction	Dots	True direction	
1	5	182	26	52	231	51	283	76		335
2	7	184	27	54	233	52	285	77		337
3	9	186	28	56	235	53	287	78		339
4	11	188	29	58	237	54	289	79		341
5	13	190	30*	60	239	55	291	80*		343
6	15	191	31	61	241	56	293	81		345
7	16	193	32	62	243	57	295	82		347
8	18	195	33	64	245	58	298	83		349
9	20	197	34	66	247	59	300	84		351
10*	22	199	35	68	249	60*	303	85		353
11	24	201	36	70	251	61	305	86	172	355
12	26	203	37	72	253	62	307	87	174	357
13	28	205	38		255	63	309	88	176	359
14	30	207	39		257	64	311	89	178	1
15	31	209	40*		260	65	313	90*	180	3
16	32	211	41		262	66	315	91	182	5
17	34	213	42		264	67	317	92	184	7
18	36	215	43		266	68	319	93	186	9
19	38	217	44		268	69	321	94	188	11
20*	40	219	45		270	70*	323	95	190	13
21	42	221	46		272	71	325	96	191	15
22	44	223	47		274	72	327	97	193	16
23	46	225	48		276	73	329	98	195	18
24	48	227	49		278	74	331	99	197	20
25	50	229	50*		281	75	333	100*	199	22

*.....Dot in higher tone.

1648. Hamada Ko. **34°52.5' N., 132°02.5' E. (approx.).**

FREQ.: 295 kc., A2. POWER: 300 watts.

CHARACTERISTIC SIGNAL:

		Minutes
(a) Circular wave (non-directional)		
HT (•••• ▬) twice		
A (•▬) twice		
Dot (•) 100 times	4 times	4
(b) Directional rotating wave		
HT (•••• ▬) twice		
Long dash twice	4 times	2
Period		6

HOURS OF TRANSMISSION: For 6 minutes commencing at 3, 18, 33, and 48 minutes past each hour.

CALIBRATED SECTOR: 240°–040°.

REMARKS: See sec. 155.

Calibration Table for Hamada Ko

Dots	True direction	Dots	True direction	Dots	True direction	Dots	True direction
1	2	26		51	282	76	332
2	4	27		52	284	77	334
3	6	28		53	286	78	336
4	8	29		54	288	79	338
5	10	30*	240	55	290	80*	340
6	12	31	242	56	292	81	342
7	14	32	244	57	294	82	344
8	16	33	246	58	296	83	346
9	18	34	248	59	298	84	348
10*	20	35	250	60*	300	85	350
11	22	36	252	61	302	86	352
12	24	37	254	62	304	87	354
13	26	38	256	63	306	88	356
14	28	39	258	64	308	89	358
15	30	40*	260	65	310	90*	360
16	32	41	262	66	312	91	2
17	34	42	264	67	314	92	4
18	36	43	266	68	316	93	6
19	38	44	268	69	318	94	8
20*	40	45	270	70*	320	95	10
21		46	272	71	322	96	12
22		47	274	72	324	97	14
23		48	276	73	326	98	16
24		49	278	74	328	99	18
25		50*	280	75	330	100*	20

*.....Dot in higher tone.