

900 yards westward of the same point. This point is the northwestern extremity of Cheto To and lies slightly more than 2 miles southwestward of Chinnampo. A 1-fathom (1.8 m) rocky patch lies on the south side of the channel at nearly $\frac{1}{4}$ mile westward of Cheto Kaku.

On the northern side of the fairway a $4\frac{3}{4}$ -fathom (8.7 m) patch lies about 1,350 yards northwestward of Cheto Kaku and the 5-fathom (9.1 m) curve extends southward to about $\frac{3}{4}$ mile north of the same point.

At about $1\frac{1}{2}$ miles eastward of Chinnampo a $4\frac{1}{2}$ -fathom (8.2 m) patch lies on the north side of the fairway at about 1,200 yards northward of Mandari Point.

Range beacons, consisting of white masts, 30 and 24 feet (9.6 and 7.3 m) high, respectively, situated on the summit of a hill about 1,200 yards eastward of Ounton Anchorage Light. The front beacon has a triangular top mark and the rear beacon has a globe top mark. The beacons in range, 109° , lead through Pito Suido.

Ice.—Above the junction of the two rivers, for a distance of 20 to 30 miles, the Daido Ko is frozen over from about the beginning of January until the middle of March each year. Large blocks of ice drift down the river and into the estuary, completely choking the channel at the entrance to the latter.

During the period 1905 to 1914 Daido Ko was closed to navigation on account of ice from 32 to 78 days each year, the average being 62 days, but in 1922 it was closed for only 14 days.

Directions.—From the westward, Cho Da, Soku To, and Toku Somu are good landmarks. Vessels steer for Buk To on an easterly course until Shimai To Light bears 56° , when the course should be changed and the lighthouse steered for on that bearing. This course leads about $\frac{1}{2}$ mile southward of the buoy which marks the southern end of Naka Su and about 400 yards northwestward of the light buoy which marks the northeastern extremity of Shimo Su. When about 2 miles from Shimai To, steer so as to round it at a distance of about 400 yards and then to eastward between Soku To and the buoy which marks the southern side of the central shoals to the northward. Bring Runa San, a 774-foot (235.9 m) hill located $5\frac{1}{4}$ miles northeastward of Ounton Anchorage Light, to bear 79° . Follow this course until northward of Chan To when Ounton Anchorage Light should be seen about midway between Koisu Kaku and Pi To. The course should then be altered to the southeastward so as to pass between the shoals extending southward from Chi ri Somu and the $4\frac{1}{4}$ -fathom (7.8 m) rock to the southwestward and then the vessel should pass through Pito Suido. The range beacons described above, will lead through Pito Suido.

After passing through Pito Suido the fairway is clear of dangers as far as Chinnampo, the only shoals being the $4\frac{1}{2}$ and $4\frac{3}{4}$ fathom (8.2 and 8.7 m) patches lying westward and northwestward of Cheto Kaku, respectively.

When approaching Daido Ko from the southward, if passing within the shoals lying between Chansan Kotsu and Cho Da, round Chansan Kotsu at a distance of at least 1 mile. The strong tidal currents here should be considered. From 1 mile northward of the point steer a course of 66° toward Dai To, which lies about $6\frac{1}{2}$ miles northeastward of Chansan Kotsu, for a distance of about $1\frac{1}{2}$ miles, then with Dai gan Do, which lies close off Chansan Kotsu, astern, kept on the bearing 222° , proceed until about 3 miles northward of Dai To. The course should then be altered to the northward with the eastern summit of Cho Da, 853 feet (260.0 m) in height, kept on the bearing 17° until about $3\frac{1}{2}$ miles past Go rin chi Ki. Then change the course, keeping the 596-foot (181.7 m) summit, about 3 miles east-southeastward of Hombagu Kaku, bearing 40° until the black rock lying off Hombagu Kaku is in range with the northwestern extremity of Soku To, bearing 17° , when the course should be altered to 355° so as to pass between the northern end of Nai Su and the shoal lying westward of Hombagu Kaku.

When Shimai To bears 56° change the course to the northeastward and round Shimai To, as directed before, at a distance of about 400 yards.

Chinnampo Harbor.—The western limit of the harbor is a line between the summit of Che To and a beacon west of Chinnampo. The eastern limit is a line between Mandari Point and a beacon eastward of the town.

A basin, open to the southward is located at the southeastern side of the city. The western and northern sides of the basin dry. On the eastern side there is a least depth of 12 feet (3.7 m) alongside the wall over a length of 400 feet, but a dredger has to be constantly employed to maintain this depth.

Harbor works, marked by red lights are in progress on the western side of the basin (1930).

Ibari To Light ($38^\circ 43' N.$, $125^\circ 24' E.$, *H. O. Chart 3242*).—A light is shown from a white iron column, 34 feet (10.4 m) in height, situated on the eastern side of the entrance to the basin.

Buoys.—Two buoys, painted in red and black horizontal stripes, are moored about 400 yards westward of the basin to mark the rocky ground which lies outside the drying shore bank.

Anchorage.—Vessels can anchor in 10 to 15 fathoms (18.3 to 27.4 m), mud, about 400 yards outside the drying banks off the city. The tidal currents normally attain a rate of 3 to 4 knots, but more during the flood season.

Quarantine station.—The quarantine station is westward of the town. There is a flagstaff at the station.

Local storm signals are shown from a staff close northward of Ibari To.

Tidal currents.—In the entrance to Daido Ko the ebb current attains a velocity of $4\frac{3}{4}$ knots and the flood current $3\frac{1}{2}$ knots around the projecting points and in the narrow channels. In the center of the channel off Chinnampo the ebb current runs for $7\frac{1}{2}$ to 8 hours, the turn of the tide occurring at high water and at $1\frac{1}{2}$ to 2 hours after low water. The flood current attains a rate of $3\frac{1}{4}$ knots and the ebb $4\frac{1}{4}$ knots. Off both banks of the river the ebb current commences to run 1 to 2 knots earlier than in the center of the river.

Westward of Choru To at the mouth of the Cheiryon Gan the tidal currents are rotary and strong.

Pilots are available, but pilotage is not compulsory.

The pilot will meet vessels about 5 miles southward of Shimai To Light.

The pilot boat is a small motor launch with the pilot flag, upper part red and the lower part white, flying from the masthead.

CHINNAMPO is a prosperous city. It has (1922) a population of about 25,000, of whom 5,000 or 6,000 are Japanese. The Japanese quarter is on the shore side of the town.

This is an open port.

Cargo is usually handled by lighters as the only berth is that alongside the wall of the basin. There are three 5-ton cranes on the wall.

Tugs and lighters are available.

Repairs.—Small repairs can be made.

Supplies.—Beef, fish, fowl, fruit, and vegetables are plentiful. Water is obtained from a tank vessel.

Coal.—The supply of coal is small. It is loaded by lighters. About 30 tons of coal can be loaded per hour.

Communication.—There is a railroad to Heijo, which is a station on the main Korean system. There is telegraphic communication.

Radio.—There is a radio station here.

Meteorological table.—See page 511.

Telegraph cable.—A cable is laid across the river at about 3 miles northwestward of Choru To.

Choru To Light Buoy, painted red and showing an occulting red light is moored southwestward of the western end of Choru To.

The river above Choru To is also known as the Teidon Gan. It is navigable by steam vessels as far as Kenjiho, about $5\frac{1}{2}$ miles above the western point of Choru To. The channel is narrow in two places, the southern being about $1\frac{2}{3}$ miles above the western point of Choru To where the channel is close to the west bank and only about 200 yards wide, and the northern about 1 mile below Kenjiho.

A red conical buoy is moored on the eastern side of the channel at the northern end of the southern narrow part.

Kenjiho ($38^{\circ} 45' N.$, $125^{\circ} 37' E.$, *H. O. Chart 3242*) had in 1917 a population of about 19,000, of which 3,600 were Japanese and about 1,000 Chinese. There are iron and steel works here. The town has railroad communication.

Above **Kenjiho** the river is obstructed by shoals, but can be navigated by vessels of 10 to 12 feet draft as far as Hosan, a distance of 12 miles. Above Hosan vessels of 10-foot draft can ascend for 6 miles, but above this the river is very shallow.

Heijo (Heizyo), an important city, is located 14 miles above Hosan.

For meteorological table see page 513.

Tidal currents in the river above Choru To are strong. In the narrows northwestward of Choru To the flood current attains a rate of 5 knots and the ebb 7 knots. Above the narrows, as far as Hosan the rate of the tidal currents is usually 2 to $2\frac{1}{2}$ knots.

Cheiryon Gan (Sainei Ko), which extends southward from Choru To, is navigable for 3 miles within the entrance by vessels of light draft with local knowledge. Farther up the river is navigable only by boats.

Northward of Daido Ko.—Between Toku Somu, off the estuary of Daido Ko, and the southern extremity of Chorusan Peninsula, 53 miles to the north-northwestward, the coast recedes to the north-eastward and forms a very extensive bay. This bay is filled with drying banks and shoals, between which there are many narrow and intricate channels. Drying banks extend several miles off the shores. (See chart.)

The Seisen Ko (Chonchon Kagu) and the Tainin Kagu discharge into the northeast corner of the bay.

Many islands and islets lie in the northern part of the bay.

Shimmi-To, nearly 9 miles eastward of the southern end of Chorusan Peninsula, is the largest island in the bay. Its highest peak, Unjogu San, is 1,737 feet (529.4 m) in height and is located near the center of the island.

Outer islands and shoals.—Kitano Hanare Su, with depths of 5 to 8 fathoms (9.1 to 14.6 m), extends $4\frac{1}{2}$ miles northward from a position about $12\frac{1}{2}$ miles north-northwestward of Sei To Light.

The outer shoal of the bay, from a position in latitude $38^{\circ} 50' N.$, longitude $124^{\circ} 31' E.$, extends about 7 miles northward and has depths of $3\frac{1}{4}$ to $6\frac{3}{4}$ fathoms (5.9 to 12.3 m).

Pylades Shoal, with depths of $3\frac{1}{2}$ to 10 fathoms (6.4 to 18.3 m), extends about 9 miles northward from a position about 21 miles north-northwestward of Sei To Light.

Other shoals lie to the northward, northeastward, and eastward of the above shoals. (See chart.)

Napu Somu is the western of two islets, about 200 feet (61.0 m) in height, lying about 43 miles northward of Sei To Light. Another island, 148 feet (45.1 m) in height, lies about 1 mile to the north-northeastward of Napu Somu.

Teifa To, about 8 miles south of Chorusan Peninsula, is the southernmost of the group of islands extending off this peninsula. Shoals

extend to a distance of 11 miles southwestward of the island, and the 3-fathom (5.5 m) curve limiting the tail of a shallow bank extending southward from the peninsula lies 8 miles south-southwestward of the island. The largest island in the group north of Teifa To is Kaa To, which lies $1\frac{1}{4}$ miles south of the peninsula.

Light ($39^{\circ} 28' N.$, $124^{\circ} 35' E.$, *H. O. Chart 3236*).—A light is shown from a white hexagonal frame, 70 feet (21.3 m) high, situated on the western end of Teifa To. (See Light List.)

Anchorage.—There are anchorages in Sensen Wan, the water area between Shimmi-To and Chorusan Peninsula, and east of Kaa To. In approaching these anchorages the limits of the shoals can not be discerned and the tidal currents are very strong so local knowledge is essential.

The anchorage in Sensen Wan is in depths of 5 to 7 fathoms (9.1 to 12.8 m), sand and mud, east of the 254-foot (77.4 m) island, which lies $5\frac{1}{4}$ miles west-northwest of the northern end of Shimmi-To. There are several islands in the vicinity of the anchorage. In the approach to, and in the vicinity of, this anchorage there is a number of long shoals on which there are drying banks.

The channel leading to the anchorage has a least depth of $4\frac{1}{2}$ fathoms (8.2 m). It leads southeastward of the shoal extending southwestward of Teifa To, southeastward of the islets which lie southeastward of Teifa To, between the 123-foot (37.5 m) islet lying $4\frac{1}{2}$ miles northeastward of Teifa To and the group of black rocks, 4 to 6 feet (1.2 to 1.8 m) high, to the southeastward, then to the east of Tan To, lying nearly 1 mile southeast of Kaa To, then east of the 528-foot (160.9 m) islet north-northeastward of Tan To, and then between the shoals to the anchorage.

Between Kaa To and Tan To there is a channel about 3 miles long with charted depths of 5 to 9 fathoms (9.1 to 16.5 m). This is named Kaa To Anchorage and is said to afford secure anchorage. The approach channel is west of the shoal bank extending southwestward from Teifa To, west of Teifa To, and either north or south of Ho Yomu, which is 416 feet (126.8 m) in height and lies $1\frac{3}{4}$ miles north of Teifa To. In the channel north of Ho Yomu a depth of only 4 fathoms (7.3 m) can be carried and in the channel southward of the island only $3\frac{1}{4}$ fathoms (5.9 m) can be carried through.

There is also anchorage about $\frac{1}{2}$ to 1 mile eastward of the northeastern end of Tan To in depths of 5 to 7 fathoms (9.1 to 12.8 m).

Chorusan Peninsula is hilly. Its highest peak is 1,274 feet (388.3 m) in height and is located nearly 4 miles northward of its southern extremity and another peak, nearly as high, is located about $2\frac{1}{2}$ miles to the southwestward.

Oryoku Ko (Yalu River).—See *H. O. Pub. 124, Asiatic Pilot, Vol. III.*

APPENDIX I

List of principal ports, showing particulars of depths, etc.

Port	Datum below chart level		Rise of tide		Remarks
	In channel of approach	In anchorage (fathoms)	Springs	Neaps	
Otomari Hakuchi.....	Deep.....		<i>Feet</i> 4.8	<i>Feet</i> 2.8	
Strelok Bay, Nazimova Bay...	North entrance deep...	5 to 8.....	1.5		
Vladivostok.....	Deep.....	11.....	0.7	0.4	
Slavyanski Bay, Tulamu Bay...	Deep.....	8.....			
Posiette Bay:					
Pallada Road.....	Deep.....	6 to 8.....			
Posiette Road.....	7 fathoms.....	$5\frac{1}{2}$ to 10.....	2.5		
Yuki.....	Deep.....	7.....	1.2	0.8	
Chonjin.....	Deep.....	12.....	1.0		
Sonjin.....	Deep.....	$5\frac{1}{2}$	1.2	0.8	
	West entrance $5\frac{1}{2}$ fathoms.....	9.....	1.2	0.8	
Shimpo Byochi.....	East entrance, 7 to 11 fathoms.....				
Shoden Wan (Port Lazaref)....	10 fathoms.....	7 to 9.....	1.6	1.0	
Gensan.....	7 fathoms.....	6.....	1.5	1.0	
Chosendo Byochi (Chanjindon Anchorage).	Deep.....	5.....	1.2	0.8	
Urusan Wan.....	Deep.....	7.....	2.8	1.5	
Tsu Shima:					
Anso Wan.....	Deep.....	16.....	8.0	6.0	
Nishitomari Wan.....	$6\frac{3}{4}$ fathoms.....	9 to 10.....	4.0	2.5	
Izuhara Wan.....	Deep.....	6 to 8.....	6.0	4.0	
Fusan.....	$5\frac{1}{2}$ to 6 fathoms.....	6.....	4.0	2.8	
Masampo.....	6 fathoms.....	$4\frac{1}{2}$	7.2	4.5	
Chisepo, Center Harbor.....	Deep.....	7.8.....	6.5	4.3	
Kyujora Ho (Broughton Harbor).	Deep.....	7 to 8.....	7.0	5.0	
Toei Ho (Toguyogu).....	6 fathoms.....	5 to 6.....	9.2	6.0	
Tonaikai (Port Hamilton)....	$5\frac{1}{2}$ to 7 fathoms.....	8.....	11.5	7.2	
	North entrance deep.....	8.....	10.8	8.2	
Shoan Ko.....	South entrance, 6 fathoms.....				} Not suitable for large vessels.
Jinsen Ko.....	6 fathoms.....	7.....	30.5	21.0	

APPENDIX II

Particulars of dry docks

[Largest at each port]

Port	Type of dock	Length from bilge of caisson or miter post of gates at—		Breadth of entrance at—		Distance above chart datum level of—			Springs rise	Remarks
		Coping head	Floor head	Coping	M. H. W. S. level	Sill	Blocks, at—			
							Entrance	Head		
Fusan.....	Dry dock.....	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Can take vessels up to 1,000 gross tons.
Vladivostok.....	do.....	635½	253 618½	64.6 90.0	13.8	33.8			4.0 .7	

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APPENDIX III

METEOROLOGICAL TABLES

Table of average weather at Chinnampo—1910 to 1914

[From the Japanese Sailing Directions]

Month	Pressure, average	Temperature			Rainfall	Weather by days, rainy	Wind	
		Average	Average				Direction	Stormy days
			High	Low				
January.....	30.51	°F. 21	°F. 30	°F. 28	Inches 0.5	4	N.	3
February.....	30.43	30	30	28	0.3	5	NE.	4
March.....	30.31	35	39	34	1.0	5	E.	10
April.....	30.23	49	51	37	1.4	6	SE.	4
May.....	30.12	61	64	48	1.3	5	SE.	2
June.....	29.96	67	74	61	3.0	7	S.	2
July.....	29.96	74	77	68	8.7	11	W.	3
August.....	30.00	76	82	69	5.8	9	SW.	2
September.....	30.16	66	77	67	2.9	7	NW.	2
October.....	30.35	55	70	58	1.4	6		2
November.....	30.39	40	59	44	2.4	7		5
December.....	30.43	24	45	30	0.6	5		3
Yearly average.....	30.24	50	58	48	29.3	77		42

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Fusan. Latitude 35° 06' N., longitude 129° 01' E. Height above mean sea level, 44 feet (13.4 m)

(From the British Admiralty Sailing Directions)

(Meteorological table compiled from 18 years' observations—1905-1922)

Month	Pressure at mean sea level, reduced to 32° F. and latitude 45°		Air temperature								Relative humidity	Cloud amount; scale 0 to 10	Rain			Wind									Number of days, gales ¹	Number of days, fogs ⁴
	Mean monthly	Mean daily amplitude	For month	Mean daily		Mean monthly		Ex-treme		Mean month fall			Number of days ¹	Maximum fall in 24 hours ²	Mean velocity (Beaufort scale)	Percentage of observations from—										
				Maximum	Minimum	Maximum	Minimum	Maximum	Minimum							North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm		
January	30.18	30.15	36	43	29	56	17	65	7	51	3.5	2.01	7	3	40	11	1	1	1	2	10	33	1	19	0.2	
February	30.15	30.09	38	45	31	56	19	63	11	52	4.1	1.61	6	3	41	10	3	2	2	2	9	30	1	15	0.3	
March	30.09	30.00	44	52	37	62	25	69	19	57	5.1	2.36	9	3	28	15	5	4	5	6	12	24	1	14	0.5	
April	30.00	29.86	54	61	47	70	37	78	32	66	5.5	6.14	10	2	19	16	8	8	11	10	14	12	2	10	1	
May	29.86	29.74	61	69	54	78	46	83	42	71	5.6	4.45	9	2	16	13	8	9	15	13	15	9	2	7	1	
June	29.74	29.77	68	74	62	82	53	86	50	79	7.2	9.02	13	2	11	14	10	14	21	11	11	5	3	4	2	
July	29.77	29.74	75	80	70	88	62	93	58	83	6.9	11.08	14	2	11	15	12	10	18	15	13	3	3	6	2	
August	29.74	29.92	77	84	73	90	66	95	60	79	5.7	8.00	11	2	17	21	11	11	12	11	9	5	3	5	0.2	
September	29.92	30.06	71	78	66	85	57	90	51	73	6.3	6.22	11	2	26	27	10	7	6	6	6	10	2	6	0.1	
October	30.06	30.15	62	70	54	77	42	79	36	65	4.4	2.87	8	2	36	25	5	5	3	3	6	15	2	6	0	
November	30.15	30.21	50	58	42	70	29	75	26	58	3.7	1.73	6	2	37	15	2	2	2	3	12	26	1	11	0.2	
December	30.21		39	47	32	60	20	67	10	51	3.2	.95	5	3	43	11	1	1	0	2	10	31	1	17	0.1	
Means	30.00		56	63	50					65	5.1			2	27	16	6	6	8	7	11	17	2			
Totals									95	7		56.38	107											118	8	
Extreme values																										
Number of years' observations													18													

Hours of observation, 2h., 6h., 10h., 14h., 18h., and 22h. (135° E. meridian time). Authority—Data supplied by Meteorological Service of Chosen.

¹ Day with 0.1 mm or more rain.

² Maximum fall during the 24 hours from one morning observation to the next.

³ Wind with force of 5 or over.

⁴ Visibility less than 1,100 yards.

Table of average weather at Heijo—1907-1917

(From the Japanese Sailing Directions)

Month	Pressure, average in inches	Temperature				Average humidity	Rainfall (inches)		Weather by days				Wind			Frost and snow
		Average	Average		Total		Greatest in single day	Fair	Cloudy	Rainy	Foggy	Prevailing direction	Average force (Beaufort scale)	Stormy days		
			High	Low												
January	30.29	19	28	10	75	0.6	1.1	11	6	7	2	E.	2	1	Average first frost, Oct. 14. Earliest frost, Sept. 29, 1916 Average last frost, Apr. 24. Latest frost, May 2, 1915. Average first snow, Nov. 17. Earliest snow, Nov. 7, 1907 and 1908. Average last snow, Mar. 31. Latest snow, Apr. 24, 1908.	
February	30.24	23	32	14	70	0.5	0.6	11	6	4	1	W.	2	3		
March	30.14	33	43	25	64	0.9	1.0	9	6	7	1	NNW.	3	3		
April	29.99	48	60	38	64	1.7	1.5	6	8	8	1	W.	3	3		
May	29.85	59	70	49	65	2.1	1.3	6	6	8	2	E.	2	2		
June	29.72	68	79	59	71	3.1	1.8	3	11	10	1	W.	2	1		
July	29.73	74	83	68	79	9.1	5.6	3	16	15	1	E.	2	2		
August	29.74	75	84	68	79	7.7	3.5	3	13	13	3	E.	2	0		
September	29.94	65	76	58	75	5.1	6.5	7	8	9	2	Calm.	2	1		
October	30.11	54	64	44	72	1.6	1.0	11	5	8	4	Calm.	2	1		
November	30.23	37	46	29	71	2.1	1.9	10	4	10	2	E.	2	2		
December	30.29	22	30	13	74	0.6	0.3	12	5	8	2	E.	2	2		
Yearly average	30.02	48	58	40	71	35.1	6.5	91	94	106	20	E.	2	19		

Table of average weather at Jinsen—1905-1917

(From the Japanese Sailing Directions)

Month	Average pressure	Temperature				Average humidity	Rainfall (inches)		Weather by days				Wind		Frost and snow
		Average	Average		Total		Great-est in single day	Fair	Cloudy	Rainy	Foggy	Prevailing direction	Average force (Beaufort scale)	Stormy days	
			High	Low											
		° F.	° F.	° F.	Perct.										
January	30.27	27	34	21	68	0.8	1.9	10	6	8	1	N.	4	17	Average first frost, Nov. 8. Earliest frost, Oct. 26, 1916. Average last frost, Apr. 6. Last frost, Apr. 17, 1908 and 1917. Average first snow, Nov. 17. Earliest snow, Nov. 6, 1905. Average last snow, Mar. 24. Latest snow, Apr. 19, 1911.
February	30.22	28	35	22	64	0.6	1.2	10	5	5	1	NW.	4	15	
March	30.15	36	44	30	63	1.2	4.9	8	9	6	2	NW.	4	20	
April	30.00	49	58	42	69	2.7	2.3	6	9	9	4	NW.	4	16	
May	29.87	58	66	52	74	3.2	2.1	6	9	8	5	SW.	4	15	
June	29.74	67	74	61	80	4.1	3.8	2	13	10	8	SW.	3	10	
July	29.73	74	80	69	85	8.4	6.0	2	16	14	10	SW.	4	10	
August	29.74	76	83	70	80	7.6	9.0	3	11	12	3	NE.	3	10	
September	29.93	68	75	61	74	4.8	4.0	6	10	9	1	NNE.	3	11	
October	30.11	58	66	50	69	1.6	2.0	9	6	7	1	NE.	3	11	
November	30.19	42	50	35	65	1.7	2.0	9	5	8	1	N.	4	18	
December	30.27	29	36	23	64	0.7	0.5	9	4	8	1	N.	4	19	
Yearly average	30.02	51	58	45	71	37.5	9.0	81	103	104	39	NW.	4	172	

Markovo, Anadir River. Latitude 64° 45' N., longitude 170° 50' E. Height above mean sea level, 85 feet (25.9 m)

(From the British Admiralty Sailing Directions)

(Meteorological table compiled from 9 to 15 years' observations—1894-1914)

Month	Barometer at 32° F., mean sea level, and latitude 45° N.					Air temperature						Relative humidity	Cloud amount scale 0 to 10	Precipitation			Wind									Number of days, gales	Number of days, fogs		
	Mean		Extreme			Mean			Extreme					Total fall	Number of days	Maximum fall in 24 hours	Mean force, Beaufort scale	Number of days from—											
	For month	Daily range	Maximum	Minimum	Range	For month	Maximum	Minimum	Range	Maximum	Minimum							Range	North	Northeast	East	Southeast	South	Southwest	West			Northwest	Calm
January	30.01	30.86	28.70	2.16	-19	37	-68	105	80	5	0.22	9	0.21	2.2	5	4	0	0	0	1	1	2	18	0.8	0				
February	30.10	31.15	28.85	2.30	-15	35	-72	107	79	5	0.22	7	0.21	2.3	5	3	0	0	0	1	1	2	16	1.3	0				
March	30.06	31.12	28.50	2.63	-10	38	-57	95	77	5	0.26	8	0.26	2.7	5	4	0	0	0	1	1	3	16	1.4	0				
April	30.02	30.74	29.20	1.54	5	46	-39	85	78	6	0.13	6	0.12	2.6	6	4	0	0	0	1	1	3	14	.7	0.4				
May	29.98	30.62	29.18	1.45	28	58	-18	76	77	7	0.27	5	0.47	2.6	7	4	1	1	1	1	1	3	11	.3	1.3				
June	29.85	30.39	29.26	1.12	51	82	25	57	66	6	0.82	7	0.84	3.2	4	4	1	1	2	2	1	3	8	.8	1.1				
July	29.79	30.30	29.20	1.09	59	84	33	51	71	7	1.03	10	0.81	2.9	3	6	2	2	5	3	1	3	10	.4	1.3				
August	29.80	30.21	29.03	1.18	50	80	22	58	77	7	1.88	12	1.57	2.9	5	5	1	2	3	2	1	3	9	.4	1.3				
September	29.89	30.47	28.67	1.80	37	68	4	64	78	7	1.06	8	1.42	2.8	6	4	1	1	1	1	2	2	10	.7	1.2				
October	29.92	30.65	28.88	1.77	16	47	-34	81	83	7	0.41	10	0.37	2.6	6	4	0	0	1	1	2	4	13	1.2	1.0				
November	29.90	30.68	28.55	2.13	-1	40	-61	101	84	6	0.41	10	0.46	2.7	5	4	1	0	0	1	2	3	14	0.7	.8				
December	29.89	30.77	28.58	2.19	-13	34	-65	99	82	6	0.33	10	0.33	2.7	6	3	0	0	1	1	2	3	15	1.5	.1				
Means	29.94				16		+ 6		78	6			2.7																
Totals											7.04	102	1.57		63	49	7	7	21	16	16	32	154	11.5	5.2				
Extreme values		31.15	28.50	2.67				84	-72	156																			
Number of years' observations		15				13		3	9					15											10				

Observations at 7 a. m., 1 p. m., and 9 p. m.

Authority—Annales de l'Observatoire Physique Centrale, Petrograd,

Table of average weather at Minkoru Guntı—1910-1916

(From the Japanese Sailing Directions)

Month	Pressure, average	Temperature		Weather by days				Wind			
		Average	Average		Fair	Cloudy	Rainy	Foggy	Prevailing direction	Average force (Beaufort scale)	Stormy days
			High	Low							
		°F	°F								
January	30.16	42	34	1	19	14	1	NW.	3	25	
February	30.12	45	35	3	12	12	4	NW.	3	18	
March	30.04	48	39	4	14	12	4	NW.	3	24	
April	29.96	56	46	5	13	13	10	N.	2	17	
May	29.84	63	53	7	7	9	12	N.	2	12	
June	29.69	84	61	2	16	14	23	SE.	2	9	
July	29.68	75	67	0	17	13	25	S.	2	14	
August	29.73	81	71	6	9	8	12	SE.	3	10	
September	29.88	76	67	6	10	9	4	N.	2	14	
October	30.08	67	58	8	7	8	2	N.	2	15	
November	30.20	55	47	3	10	12	1	NW.	3	20	
December	30.28	46	38	1	18	17	0	NW.	3	24	
Yearly average	29.96	60	51	46	152	141	98			202	

Nikolaevsk. Latitude 53° 08' N., longitude 140° 45' E. Height above mean sea level, 69 feet (21.0 m)

(From the British Admiralty Sailing Directions)

[Meteorological table compiled from 6 to 61 years' observations—1854-1919]

Month	Pressure at mean sea level, reduced to 32° F. and latitude 45°		Air temperature								Relative humidity	Cloud amount, scale 0 to 10	Rain			Wind										Number of days' gales	Number of days' fogs
	Mean		For month ¹	Mean daily		Mean monthly		Extreme		Mean monthly fall			Number of days ³	Maximum fall in 24 hours ⁴	Mean velocity (Beaufort scale)	Percentage of observations from—											
	For month ¹	Daily amplitude		Maxi-mum ²	Mini-mum	Maxi-mum ²	Mini-mum	Maxi-mum ²	Mini-mum							North	North-east	East	South-east	South	South-west	West	North-west	Calm			
	Inches	Inches		° F.	° F.	° F.	° F.	° F.	° F.																		
January	30.03	-11	-3	-20	14	-32	31	-50	78	4.1	0.59	3	2	2	2	1	0	1	41	29	21	1	0.4				
February	30.03	-5	1	-16	21	-29	33	-51	77	4.4	.47	5	3	3	4	2	1	2	39	21	25	0.5	0.5				
March	29.95	9	17	-2	35	-22	49	-34	76	5.0	.67	7	4	7	12	4	1	3	28	14	27	0.6	0.8				
April	29.86	27	33	17	46	-2	62	-15	77	6.3	1.14	9	4	9	19	12	1	4	20	9	22	0.3	1				
May	29.80	38	43	31	59	21	70	12	78	7.0	1.30	9	5	9	25	25	1	2	10	6	17	0.5	3				
June	29.77	53	57	44	73	34	83	25	78	6.5	1.54	7	5	10	25	34	1	1	5	3	16	0.6	0.5				
July	29.74	61	65	53	81	42	89	34	79	6.8	2.01	9	3	5	8	25	26	1	3	7	6	19	0.4	0.9			
August	29.77	61	69	53	80	42	88	38	81	7.0	3.11	10	3	4	6	18	21	1	3	13	11	23	0.9	2			
September	29.86	51	57	43	72	30	80	21	80	5.9	2.68	10	5	6	12	13	2	4	18	12	28	1	2				
October	29.89	35	41	28	57	11	64	-13	75	6.1	2.01	9	3	4	5	7	7	1	4	27	20	25	1	0.9			
November	29.89	14	17	7	36	-13	48	-29	76	5.9	1.26	8	3	3	4	4	2	1	2	41	23	20	3	0			
December	29.92	-5	0	-11	24	-30	39	-40	79	5.0	.83	6	2	3	3	1	0	1	45	27	18	1	0.2				
Means	29.89		27	32	19	53	-40		78	5.8		3	4	6	13	12	1	2	25	15	22						
Totals											17.60	94										11	13				
Extreme values							89	-51			3.11																
Number of years' observations	45-47		57-61	6	25-27		29-31		18-20	37-40	50-52	47-49	23-26	18-20								7-9	10-11				

Hours of observation, 7h., 13h., and 21h.

¹ Adjusted to mean of 24 hours.
² Data refer only to readings at the observational hours.
³ Day with 0.1 mm or more rain.
⁴ Maximum fall during the 24 hours from one morning observation to the next.
⁵ Mean of highest each year and lowest each year.

Authorities:
 Petrograd—Annales de l'obs. Phys. Cent. Nicolas.
 Réseau Mondial.
 Wild. Neve Mittel der Neiderschlagsmangen für Russische Reich.
 Memoires de l'Academie Imperiale des Sciences de St. Petersburg.
 Vladivostock—Annales de l'obs. Phys. Cent. Nicolas.
 Wild. Temp. Verhältnisse de Russischen Reiches.

Okhotsk. Latitude 59° 21' N., longitude 143° 12' E. Height above mean sea level, 20 feet (6.1 m)

(From the British Admiralty Sailing Directions)

[Meteorological table compiled from 4 to 31 years' observations—1789-1917]

Month	Pressure at mean sea level, reduced to 32° F. and latitude 45°		Air temperature								Relative humidity	Cloud amount; scale 0 to 10	Rain			Wind										Number of days' gales	Number of days' fogs
	Mean		For month ¹	Mean daily		Mean monthly		Extreme		Mean monthly fall			Number of days ²	Maximum fall in 24 hours ³	Mean velocity (Beaufort scale)	Percentage of observations from—											
	For month ¹	Daily amplitude		Maxi- mum	Mini- mum	Maxi- mum	Mini- mum	Maxi- mum	Mini- mum							North	North- east	East	South- east	South	South- west	West	North- west	Calm			
																									° F.		
January	29.98	10	-10	-9	15	-34	27	-40	69	3.8	0.08	4	0.08	3	78	8	2	0	0	0	0	0	10	1	0.6	0	
February	30.06	5	-5	1	18	-32	30	-50	67	4.1	.12	3	.08	3	72	10	3	2	0	0	0	0	11	2	1	0	
March	30.03	7	7	16	-7	29	-24	33	70	3.9	.16	4	.20	2	53	10	9	5	2	1	0	0	12	8	0.7	1	
April	29.92	21	21	28	8	38	-10	43	78	5.4	.35	7	.47	3	29	9	13	15	9	5	2	2	12	6	2	3	
May	29.92	34	34	39	27	51	11	57	83	7.1	.75	7	.98	3	10	9	13	31	13	9	5	2	7	6	2	5	
June	29.86	43	43	46	37	58	29	73	89	7.8	1.65	8	1.38	3	6	5	19	37	15	7	2	2	5	4	0.5	10	
July	29.83	53	53	56	48	70	41	77	87	7.4	2.09	10	2.99	3	9	4	19	33	14	8	2	2	6	5	1	6	
August	29.83	54	54	60	49	67	40	78	85	7.1	2.24	9	1.22	3	17	8	16	23	14	8	1	1	8	5	0.8	6	
September	29.86	45	45	52	38	62	27	71	76	5.8	1.89	11	1.26	3	35	7	14	12	7	5	1	2	19	6	1.5	5	
October	29.89	27	27	33	21	48	3	57	63	4.7	.91	6	1.30	3	56	9	5	3	1	1	0	1	13	6	2	5	
November	29.86	6	6	8	-1	25	-17	36	63	4.4	.20	4	.20	3	75	11	2	0	0	0	0	2	19	4	0.9	0	
December	29.92	-7	-7	0	-13	20	-27	31	63	3.6	.12	4	.16	3	80	8	1	0	0	0	0	0	10	1	1	0	
Means	29.92		22	27	15	47.3	4-37		74	5.4				3	43	8	10	14	6	4	1	10	4				
Totals										8.11		78												15		35	
Extreme values								78	-50				2.99														
Number of years' observations	11-15		27-31	4-5	10-15				7-10	7-11	18-23	11-16	7-11	7-10	15-18						7-11	2-3					

Hours of observation, 7h., 13h., and 21h.

- ¹ Adjusted to mean of 24 hours.
- ² Day with 0.1 mm or more rain.
- ³ Maximum fall during the 24 hours from one morning observation to the next.
- ⁴ Mean of highest each year and lowest each year.

Authorities:
 Annales de l'obs. Phys. Cent. Nicolas, Petrograd.
 Réseau Mondial.
 Wild. Neve Mittel der Neiderschlagsmangen für Russische Reich.
 Buchan. Challenger Report.
 Annales de l'obs. Phys. Cent. Nicolas, Vladivostock.
 Wild. Temperature-Verhältnisse de Russischen Reiches.

Table of average weather at Onge—1914-1917

(From the Japanese Sailing Directions)

Month	Pres- sure, average in inches	Temperature			Average hu- mid- ity	Rainfall (inches)		Weather by days				Wind		Frost and snow	Remarks
		Average	High	Low		Total	Great- est in single day	Fair	Cloudy	Rainy	Foggy	Average force (Beau- fort scale)	Stormy days		
January	30.20	15	22	6	57	0.4		12	x	5		5	20	(See Remarks in table for Fusan, p. 512.)	
February	30.11	20	27	12	54	0.6		8	x	6		4	21		
March	30.06	27	30	20	57	1.6		7	x	8		4	18		
April	29.94	40	48	33	63	.9		4	x	6		4	17		
May	29.81	48	57	41	73	2.5		2	x	16		3	13		
June	29.72	58	66	52	85	2.7		1	x	15		3	16		
July	29.77	66	72	61	89	2.9		0	x	16		3	7		
August	29.76	71	76	65	84	7.7		4	x	15		3	8		
September	29.95	61	69	54	72	4.4		5	x	10		3	13		
October	30.09	50	58	41	62	1.2		8	x	9		4	19		
November	30.22	46	41	26	55	0.4		10	x	5		4	19		
December	30.11	20	27	50	54	0.9		9	x	4		5	25		
Yearly average	29.98	42	50	36	67	26.6	18.2	71		114	42	4	107		

¹ Aug. 9, 1915.

Table of average weather at Onsan—1905-1917

[From the Japanese Sailing Directions]

Month	Pres- sure, aver- age	Temperature			Aver- age hu- mid- ity	Rainfall (inches)		Weather by days				Wind			Frost and snow	Remarks
		Average		Total		Great- est in single day	Fair	Cloudy	Rainy	Foggy	Prevail- ing di- rection	Aver- age force (Beau- fort scale)	Stormy days			
		High	Low													
January	30.21	26	35	18	60	1.8	2.0	14	6	7	0	W.	2	3	(See Remarks in table for Fusan, page 512.)	
February	30.16	27	28	19	59	1.5	1.7	14	5	6	0	W.	2	2		
March	30.11	36	46	28	58	1.8	3.5	10	7	7	0	W.	2	4		
April	29.97	49	60	40	65	3.1	4.6	6	9	8	1	W.	2	3		
May	29.84	59	70	50	69	3.3	5.0	5	9	10	2	W.	2	5		
June	29.73	67	76	60	77	5.5	4.7	3	13	14	2	NE.	2	3		
July	29.74	72	79	67	84	11.6	4.3	2	19	19	2	E.	2	3		
August	29.76	73	81	68	83	13.3	7.7	3	16	18	1	E.	2	4		
September	29.94	66	75	58	76	7.0	5.1	5	10	13	0	W.	2	4		
October	30.09	55	66	47	70	3.1	2.1	10	7	10	6	W.	2	4		
November	30.18	42	51	33	60	2.7	3.4	12	6	7	0	W.	2	4		
December	30.19	30	39	22	52	0.9	3.3	17	2	4	0	W.	3	3		
Yearly average	30.00	50	59	43	68	55.5	7.7	101	108	123	8	W.	2	41		

Otomari. Latitude 46° 39' N., longitude 142° 46' E. Height above mean sea level, 121 feet (36.9 m)

[From the British Admiralty Sailing Directions]

[Meteorological table compiled from 15 years' observations—1906-1920]

Month	Pressure at mean sea level, reduced to 32° F. and latitude 45°		Air temperature								Relative humidity	Cloud amount, scale 0 to 10	Rain			Wind										Number of days' gales ¹	Number of days' fogs
	Mean		For month	Mean daily		Mean monthly		Extreme		Mean month fall			Number of days ¹	Maximum fall in 24 hours ²	Mean force (Beaufort scale)	Percentage of observations from—											
	For month	Daily amplitude		Maxi- mum	Mini- mum	Maxi- mum	Mini- mum	Maxi- mum	Mini- mum							North	North- east	East	South- east	South	South- west	West	North- west	Calm			
																									° F.		
January	29.92	0.04	12	20	4	33	-13	37	-27	82	6.1	1.26	15	1.0	4	27	23	12	3	3	5	9	17	1	18	0	
February	29.92	.04	14	22	5	33	-8	37	-16	82	6.0	.75	13	.9	4	22	21	16	4	5	6	9	16	1	16	0.3	
March	29.89	.03	22	29	14	39	-1	45	-9	79	6.1	1.26	14	1.1	4	12	16	15	5	10	13	15	15	1	21	1	
April	29.89	.03	34	41	27	51	15	59	5	80	6.3	1.89	12	1.3	4	8	13	14	9	16	15	12	11	2	18	2	
May	29.83	.03	42	49	34	63	26	75	23	82	7.3	2.76	13	1.5	4	7	17	16	9	20	15	7	7	2	17	6	
June	29.80	.03	50	57	43	69	35	73	29	88	7.8	3.43	14	1.6	3	7	19	14	9	23	16	6	5	1	12	9	
July	29.83	.03	58	65	52	76	42	83	35	89	7.8	3.86	14	2.2	3	7	20	15	8	24	16	5	3	2	8	9	
August	29.86	.03	63	70	56	78	47	81	41	88	7.1	3.27	12	3.3	3	6	21	16	9	23	15	5	3	2	7	7	
September	29.92	.03	56	63	48	72	37	79	28	85	6.1	3.86	15	2.4	4	8	19	18	7	16	13	11	7	1	13	3	
October	29.95	.04	45	52	36	62	23	67	18	80	5.3	3.23	14	3.2	4	11	15	12	5	12	12	10	13	1	20	2	
November	29.92	.04	31	37	24	51	9	57	-2	75	6.6	2.44	16	1.2	5	14	10	9	4	6	9	24	23	1	22	0.7	
December	29.86	.03	19	26	12	38	-2	45	-10	80	6.9	1.54	18	.8	4	26	15	9	2	3	5	15	24	1	21	0.1	
Means	29.89	.03	37	44	30	47.9	-13			82	6.6				4	13	17	14	6	14	12	11	12	1			
Totals											29.53	169		3.3											196	38	
Extreme values								83	-27																		

Number of years' observations.

15

¹ Day with 0.1 mm or more rain.
² Maximum Fall during the 24 hours from one morning observation to the next.
³ Wind with a force of 5 or over.
⁴ Mean of highest each year and lowest each year.
 Authority.—Data supplied by Central Meteorological Observatory, Tokyo.
 Observations at 2h., 6h., 10h., 14h., 18h., and 22h.

[From the British Admiralty Sailing Directions]

[Meteorological table compiled from 9 to 15 years' observations—1894-1914]

Month	Pressure at mean sea level, reduced to 32° F. and latitude 45°		Air temperature						Relative humidity	Cloud amount, scale 0 to 10	Rain			Wind										Number of days' gales ¹	Number of days' fogs		
	Mean		For month ¹	Mean daily		Mean monthly		Extreme			Mean month fall	Number of days ²	Maximum fall in 24 hours ³	Mean velocity (Beaufort scale)	Percentage of observations from—												
	For month	Daily amplitude		Maxi-mum	Mini-mum	Maxi-mum	Mini-mum	Maxi-mum							Mini-mum	North	North-east	East	South-east	South	South-west	West	North-west			Calm	
January	29.65	13	22	10	31	-6	40	-29	74	5.8	3.46	11	9.5	5	21	16	3	2	1	0	8	48	1	7	0.1		
February	29.68	13	21	9	31	-7	44	-17	71	5.6	2.09	9	2.4	5	20	18	5	2	1	1	6	46	1	6	0.3		
March	29.74	19	28	14	36	-2	44	-12	71	5.8	4.34	12	2.17	4	15	19	5	3	4	5	12	32	5	7	0.4		
April	29.80	29	36	24	44	14	53	4	74	6.2	2.68	11	1.14	4	9	22	7	7	4	5	9	26	11	5	4		
May	29.83	36	43	32	54	26	65	14	76	7.1	2.36	11	2.80	4	6	27	10	11	8	5	7	16	10	1	11		
June	29.86	45	51	40	64	33	74	29	83	7.4	2.36	12	1.81	3	6	16	16	18	10	5	5	15	9	0.7	14		
July	29.83	52	58	47	72	40	84	36	87	7.3	3.07	14	2.01	3	5	16	15	15	9	6	5	16	13	0.2	17		
August	29.83	54	61	49	71	43	81	35	84	6.7	3.31	13	1.69	3	8	16	9	11	7	8	7	22	15	1	14		
September	29.83	49	56	43	66	35	73	30	80	5.6	3.94	10	2.17	3	9	13	4	7	7	8	11	32	9	1	7		
October	29.80	39	46	33	55	24	64	18	72	5.6	4.56	12	1.89	4	10	12	4	3	4	5	17	38	7	6	2		
November	29.68	28	32	23	41	11	45	5	69	5.4	3.86	10	2.60	4	13	11	4	2	3	4	15	44	4	10	0.7		
December	29.62	19	24	14	34	2	43	-15	73	5.4	3.11	11	1.77	5	22	14	3	2	1	2	9	45	2	8	0.2		
Means	29.77	33	40	28	57.6	5-12			76	6.2				4	12	17	7	7	5	4	9	32	7				
Totals											39.1	135												52	71		
Extreme values							84	-29					2.80														
Number of years' observations	17-22		26-30	5-8	16-19		15-18	20-23	15-18	7-10	16-19	30-36	16-19	11-15	16-19	14-17										4-5	10-12

Hours of observation, 7h., 13h., and 21h.

- ¹ Adjusted to mean of 24 hours.
- ² Day with 0.1 mm or more rain.
- ³ Maximum fall during 24 hours from one morning observation to the next.
- ⁴ Wind with force of 7 or over.
- ⁵ Mean of highest each year and lowest each year.

- Authorities:
 Annales de l'obs. Phys. Central, Petrograd.
 Réseau Mondial.
 Annales de l'obs. Central, Vladivostok.
 Wild Neiderschlagsmengen für Russische Reich.

Table of average weather for Sonjin—1906-1917

[From the Japanese Sailing Directions]

Month	Pres- sure, average inches	Temperature			Average hu- mid- ity	Rainfall (inches)		Weather by days				Wind			Frost and snow	Remarks
		Average	Average			Total	Great- est in single day	Fair	Cloudy	Rainy	Foggy	Pre- vail- ing direc- tion	Average force (Beau- fort scale)	Stormy days		
			High	Low												
January	30.18	21	31	13	69	1.0	0.9	10	8	10	0	NW.	3	5	(See Remarks in table for Fusan page 512.)	
February	30.12	24	31	15	67	.7	1.1	12	4	7	0	NW.	3	6		
March	30.05	33	41	25	64	.9	1.1	10	7	7	0	NW.	3	12		
April	29.93	44	54	36	70	1.1	2.1	5	9	6	2	S.	3	12		
May	29.82	52	62	45	78	2.4	3.2	3	11	10	3	S.	3	9		
June	29.72	60	68	55	84	2.4	2.5	1	15	12	5	S.	2	3		
July	29.74	68	74	63	87	4.5	4.8	1	20	14	16	S.	2	3		
August	29.77	71	77	66	84	4.9	4.6	3	16	13	1	S.	2	4		
September	29.94	64	72	56	76	4.8	7.4	6	9	9	0	NW.	3	7		
October	30.07	52	62	44	71	1.5	1.1	9	8	6	0	NW.	3	8		
November	30.11	38	47	29	65	1.9	2.3	11	6	8	0	NW.	3	8		
December	30.13	39	35	17	62	1.4	1.7	15	4	8	0	NW.	3	8		
Yearly average	29.98	46	55	39	73	27.2	7.4	85	116	110	17	NW.	3	85		

Vladivostok. Latitude 43° 07' N., longitude 131° 55' E. Height above mean sea level, 420 feet (128.0 m)

(From the British Admiralty Sailing Directions)

[Meteorological table compiled from 9 to 51 years' observations—1860-1922]

Month	Pressure at mean sea level, reduced to 32° F. and latitude 45°		Air temperature						Relative humidity		Rain			Wind										Number of days' gales ⁴	Number of days' fogs				
	For month ¹	Daily amplitude	Mean daily		Mean monthly		Extreme		%	Number of days ²	Maximum fall in 24 hours ³	Mean velocity (Beaufort scale)	Percentage of observations, from—																
			Maxi- mum	Mini- mum	Maxi- mum	Mini- mum	Maxi- mum	Mini- mum					North	North-east	East	South-east	South	South-west	West	North-west	West	Calm							
January	30.21	—	° F. 0	° F. 30	° F. 39	° F. -22	67	3	0.31	3	3	45	10	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	
February	30.18	—	° F. 13	° F. 37	° F. 46	° F. -20	68	3	.35	3	3	41	10	1	2	2	2	2	2	2	2	2	2	2	2	2	1	2	
March	30.06	—	° F. 23	° F. 47	° F. 57	° F. -7	70	5	.59	5	5	26	7	4	4	4	4	4	4	4	4	4	4	4	4	4	1	4	
April	29.95	—	° F. 33	° F. 60	° F. 69	° F. 17	71	7	1.26	7	7	14	10	5	5	5	5	5	5	5	5	5	5	5	5	5	1	4	
May	29.83	—	° F. 46	° F. 72	° F. 80	° F. 31	77	10	1.97	10	10	24	13	4	4	4	4	4	4	4	4	4	4	4	4	4	1	7	
June	29.77	—	° F. 54	° F. 82	° F. 88	° F. 39	86	13	2.80	13	13	29	13	2	2	2	2	2	2	2	2	2	2	2	2	2	1	7	
July	29.77	—	° F. 63	° F. 90	° F. 96	° F. 47	89	13	3.23	13	13	28	13	2	2	2	2	2	2	2	2	2	2	2	2	2	1	15	
August	29.80	—	° F. 70	° F. 98	° F. 104	° F. 50	86	11	4.30	11	11	20	13	4	4	4	4	4	4	4	4	4	4	4	4	4	1	17	
September	29.95	—	° F. 68	° F. 94	° F. 100	° F. 58	86	7	4.33	7	7	11	10	5	5	5	5	5	5	5	5	5	5	5	5	5	1	12	
October	30.06	—	° F. 55	° F. 82	° F. 88	° F. 39	79	5	4.33	5	5	20	10	7	7	7	7	7	7	7	7	7	7	7	7	7	1	3	
November	30.12	—	° F. 36	° F. 63	° F. 74	° F. 17	68	4	1.77	4	4	30	6	3	3	3	3	3	3	3	3	3	3	3	3	3	1	3	
December	30.15	—	° F. 20	° F. 48	° F. 50	° F. -15	66	3	.43	3	3	40	11	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	
Means	29.98	—	47	34	57	5-15	74	5.2	22.52	91	2	23	7	4	4	4	4	4	4	4	4	4	4	4	4	4	14	80	
Totals	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11	11
Extreme values	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Number of years' observations	50-51	—	9-10	22-23	30-31	28-29	30-31	16	36-37	44-45	32-34	29-30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18-19	11-12

Hours of observation, 7h., 13h., and 21h.

¹ Adjusted to mean of 24 hours.

² Day with 0.1 mm or more rain.

³ Maximum fall during the 24 hours from one morning observation to the next.

⁴ Wind with force of 7 or over.

⁵ Mean of highest each year and lowest each year.

Authorities:

Atlas Climat de Russie Vladivostok—Annales de l'obs. Phys. Cent. Nicolas.

Memoires de l'Academie Imperiale des Sciences de St. Petersburg.

Petrograd: Annales de l'obs. Phys. Cent. Nicolas.

Réseau Mondial.

APPENDIX IV

RULES REGULATING THE CALLING OF MERCHANT VESSELS AT RUSSIAN PORTS (DATED JANUARY 20, 1925)

1. All vessels coming from abroad may enter only those ports where customhouses are to be found, and also those opened to foreign whalers and seal schooners by joint regulations of the People's Commissariat for Foreign Affairs, the People's Commissariat for Foreign Trade, and the United Political State Administration.

2. Should any port be closed owing to unforeseen circumstances so that foreign vessels could not be advised in good time of such closing, all vessels desiring to enter the port must keep a sharp lookout for the signals and lights described below, which are exhibited in some conspicuous position on the shore or by the light vessel standing near to the entrance of the port.

Three red vertical lights by night and three red vertical balls by day show that the port is closed.

In this case the vessels must either anchor in the outer anchorage or put out to sea.

3. Vessels wishing to enter into communication with the wireless telegraph stations of U. S. S. R. (Union of Soviet Social Republics) must communicate their call letters, the length of the wave, their reckoning (D. R.), and the port they are bound to.

4. Should a gun or a rocket be fired by the land battery all vessels should stop or "bring to" immediately. The entrance to the port is prohibited in thick or foggy weather or during a heavy snowfall if there was no preliminary contrary agreement by wireless, in which latter case the vessels must proceed at low speed, sounding the fog horn as prescribed by international rules.

5. Vessels approaching the ports of U. S. S. R. to the range of visibility by day must hoist their national flag and their signal letters, and by night they must carry all the ordinary lights in accordance with the international rules, and show their calling signals in Morse Code upon the first demand from shore.

6. The entrance of foreign vessels to all ports of U. S. S. R. on all the seas where pilot stations are established is allowed only under the guidance of a pilot.

7. To call the pilot on board the usual international signals are employed.

8. Masters are requested in their own interest to implicitly follow the instructions and directions of the pilot after the same has been taken on board.

9. The pilot flag hoisted at the mast of the pilot station signifies that a pilot is on the spot and will immediately come out. Should a ball be hoisted instead of a flag, it indicates that all the pilots are out.

10. Vessels arriving from abroad must hoist the quarantine flag at the foremast before entering the port, yellow if there is no illness on board and the vessel possesses a clear bill of health, and black and yellow checked (letter L of the International Code) should there be any cases of infectious diseases on board, such as cholera, plague, smallpox, typhoid fever, etc., or should the vessel possess a tainted bill of health.

The hoisting of the quarantine flag is equal to asking for the quarantine physician, who, on his arrival on board—

(1) Proceeds to oral questioning, entering the answers obtained into a specially printed inquiry form.

(2) Looks through all ship's sanitary documents.

(3) Inspects all the ship, including passengers' and crew's accommodations.

After the medical examination has been concluded and the vessel has been found in good sanitary order she is given a certificate granting the right to enter the port; otherwise the vessel is declared to be in quarantine, according to existing rules. After the medical examination is over and the ship has received its due sanitary certificate the master gives orders to lower the quarantine flag.

11. Vessels coming from abroad must not, upon their arrival at the outer anchorage, lower boats (except in case of accidents), communicate with the shore, drop anchor, or permit anybody to leave for the shore before due permission has been obtained from local authorities.

12. In accordance with orders issued by the People's Commissariat of Ways of Communications, the People's Commissariat for Foreign Trade, and the United Political State Administration on November 19, 1923, No. 11686, and on April 15, 1924, No. 800, the following rules have been established regulating the visits on board each vessel arriving in port. After the pilot, the vessel is boarded by the medical administration, who are followed by the officers of the United Political State Administration, the representative of the shipping company, and lastly by the official representatives of the commercial port.

13. Until the quarantine flag is lowered boarding the ship is prohibited to everybody, with the exception of the pilot and the medical officers.

14. Before the conclusion of the customhouse examination no one has the right to board or leave the vessel.

15. Masters of vessels arriving must show all the ship's documents and give all the necessary information to the representative of the administration.

16. Masters of vessels arriving undertake to strictly obey all port rules and regulations, which can also be transmitted to them by the wireless.

17. Masters of vessels arriving at the port under obligation are to advise the office of the commercial port administration of all damages and other incidents.

18. All details about the condition of aids to navigation may be obtained at the Ubecos (local hydrographic administration), their agencies, and at the office of the port administration.

The U. S. S. R. ports of entry within the limits of this book are: Petropavlovsk, Bolsheryetsk, Okhotsk, Alexandrovski (Sakhalin Island), Mago, Nikolaevsk, Castries Bay, Soviet Harbor, Grossevicha, Tyutikha, Olga Bay, Nakhodka, Vladivostok, Mongugai, Slavianski Bay, and Posiette Bay.

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129	West Indies Pilot. Vol. II. The Lesser Antilles and Venezuela.
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172	South American Pilot. Vol. I (East Coast). From the Orinoco River to and including the Plata River.
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146	British Islands Pilot. Vol. III. The coasts of Ireland.
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148	British Islands Pilot. Vol. V. The western coasts of Scotland from Rud'h Re' to Cape Wrath and the Hebrides Isles.
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150	British Islands Pilot. Vol. VII. East coasts of Scotland and England from Fife Ness to North Foreland, including the Firth of Forth, Thames, and Medway Rivers.
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136	The Northwest and North Coasts of Norway. From Feje Fjord to North Cape, and thence to Jakobselva, including Spitsbergen and Jan Mayen Island.
140	The southwest and south coasts of Norway. Lindesnes to Bergen, Lindesnes to Oslo, and the Swedish coast to the Kattegat.

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164	East Indies Pilot. Vol. II. Islands eastward of Celebes and Timor, including New Guinea and Louisiade Archipelago.
165	Pacific Islands Pilot. Vol. I. Western groups.
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167	Australia Pilot. Vol. I. South coast of Australia from Cape Leeuwin to Cape Northumberland.
168	Australia. Vol. II. South and east coast of Australia from Cape Northumberland to Port Jackson, including Bass Strait and Tasmania.
169	Australia Pilot. Vol. III. East coast of Australia from Port Jackson to Cape York, including the islands and dangers of the Coral Sea, Torres Strait, and inner route.
170	Australia. Vol. IV. North, northwest, and west coasts of Australia between the western approach Torres Strait and Cape Leeuwin.
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Branch hydrographic offices are established at the places named below. Complete sets of Hydrographic office publications are kept and the latest hydrographic information available to the office is placed at the disposal of masters and officers of vessels, who are invited to call and consult freely with the officers in charge.

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With a desire to render the best service possible to mariners, the Commandant of the United States Coast Guard has kindly consented to assist the Hydrographic Office in its service by having several of the Coast Guard stations, in important ports where Branch Hydrographic Offices are not available, perform some of the duties of Branch Offices.

The Stations so far designated to serve in this capacity are:

PORTLAND, ME.—Commanding Officer, United States Coast Guard cutter *Chicopee*, Customhouse.

PORTSMOUTH, N. H.—Superintendent, First Coast Guard District, New Hampshire National Bank Building.

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¹ Also operates continuously, during the open season of navigation, at the Canal Office, St. Mary's Falls Canal, where the chief quartermaster on watch may be consulted at the Hydrographic Desk.