

GREAT NICOBAR ISLAND

8C-22 GREAT NICOBAR ISLAND, the southernmost and largest of the Nicobar Islands, is well wooded and fertile. Its north extremity lies about 10 miles south-southeastward of Menchal Island (sec. 8C-21). Its northwest extremity lies about 3 3/4 miles south-southeastward of the south end of Little Nicobar Island.

Great Nicobar Island attains a considerable height throughout its length and has three well-defined ridges, the mountains of which are steep-sided and covered with dense jungle. Mount Thuiller, located on the main ridge in the northeast part of the island, attains a height of 2,105 feet. The main ridge runs southward from Mount Thuiller, parallel with the east coast, to a position near South Bay, close to the south end of the island. A second ridge extends westward from Mount Thuiller and attains a height of 1,835 feet. A third ridge, with a height of 1,333 feet, extends southwestward, from a position near the center of the main ridge, across the island. Between these ridges there are a number of broken ridges, which, for the most part, run northward and southward.

CAUTIONS.—The island appears to be fringed by a reef along the greater part of its coastline. The edge of the submarine plateau from which the island rises has not been clearly defined. It apparently extends a considerable distance westward from the coast. The west coast of the island, which is fully exposed to the Southwest Monsoon, has not been closely examined. Vessels are advised to use caution when approaching the island.

A 10-fathom shoal lies about 19 miles southwestward of the south end of Great Nicobar Island.

NORTH COAST OF GREAT NICOBAR ISLAND

8C-23 Between the northwest point (7°11' N., 93°41'E.) of Great Nicobar Island and the northwest entrance point of Ganges Harbor, nearly 5 miles east-northeastward, the coast is slightly indented and is fringed by a reef. A 3 1/2-fathom shoal lies about 1 1/2 miles off the north coast of Great Nicobar Island in position 7°13'42"N., 93°43'38"E.

KONDUL ISLAND lies about 1 mile off the middle part of this bight. The north side of

the island is high and rocky; the maximum height is 400 feet.

Caution is required in approaching Kondul Island and the adjacent coast as unknown dangers may exist. It was reported (1921) that a depth of 6 fathoms was obtained about 1 1/2 miles westward of Kondul Island, and that shoals appeared to extend over a considerable adjacent area. A rock, with 6 feet over it, is located about 2/3 mile west of the south end of the island.

KONDUL HARBOR is formed by the south side of Kondul Island and a bight in the northwest coast of Great Nicobar Island. A police radio station is located in this vicinity and is in regular communication with Port Blair (sec. 8B-54).

A 2 1/2-fathom shoal, which has not been closely examined, lies about 3/4 mile south-southeastward of the southeast end of Kondul Island.

GANGES HARBOR, which is formed by a bight in the north coast of Great Nicobar Island, is entered between a point, located about 2 3/4 miles eastward of the south end of Kondul Island, and a point about the same distance east-northeastward. A spit, with a depth of 21 feet at its outer end, extends nearly 1 mile west-southwestward from the east entrance point of the harbor. A reef, which fringes the west entrance point, extends nearly 1/2 mile north-northeastward from that point.

A coral head, having a depth of less than 6 feet, lies about 1 1/2 miles northward of the east entrance point of the harbor. The position of the coral head is approximate.

A shoal, on which there are two rocks having depths of less than 6 feet, lies nearly midway between the entrance points. There are considerable depths between this shoal and the dangers extending from either entrance point.

KABRA ISLAND, 309 feet high, is located nearly 3 miles northward of Murray Point, the north extremity of Great Nicobar Island. A 2 1/2-fathom shoal lies in the channel between the two islands in a position about 1 1/4 miles northeastward of Murray Point. Its position is doubtful.

ANCHORAGES.—Anchorage can be taken off either the east side or the west side of Kondul Island, according to the direction of the prevailing wind. The eastern anchorage has a depth of 7 fathoms at a position about 1/2 mile offshore. Depths of 10 to 12 fathoms are

found in the western anchorage, but caution is required in its approach.

Kondul Harbor affords a well-sheltered anchorage. Vessels can anchor in 12 to 17 fathoms, sand and coral, eastward or north-eastward of the before-mentioned 2 1/2-fathom shoal.

Ganges Harbor affords anchorage in 9 to 16 fathoms, coarse sand and clay, clear of the before-mentioned dangers.

ST. GEORGES CHANNEL

8C-24 ST. GEORGES CHANNEL separates Little Nicobar Island from Great Nicobar Island. Its west entrance has a least width of about 3 3/4 miles between the south end of Little Nicobar Island and the northwest end of Great Nicobar Island. The channel, just within this entrance, is reduced to a width of 2 3/4 miles between the dangers off the north coast of Kondul Island and the south coast of Little Nicobar Island.

DEPTHS—DANGERS.—There are considerable depths in the channel, but the bottom is uneven. The north side is free of off-lying dangers, except in the west entrance, where depths of 7 3/4 and 9 1/4 fathoms, about 800 yards apart, were reported (1963) in a position about 1 mile east-southeastward of the south end of Little Nicobar Island. A 7 1/2-fathom shoal was reported (1963) to lie about 2/3 mile southward of the same point.

A bank, with a depth of 11 fathoms, the existence of which is doubtful, was reported (1956) to lie about in mid-channel in the east entrance of the channel, nearly 3 miles north-westward of Kabra Islet.

The dangers in the south part of the channel have been described in section 8C-23.

TIDAL CURRENTS run strongly through the channel. See section 8-4.

WEST COAST OF GREAT NICOBAR ISLAND

8C-25 Between the northwest point of the island and Teesta Point, about 10 miles southward, the coast is high and rugged. This coast has not been thoroughly examined, but a shoal bank, with depths of 7 to 8 fathoms or possibly less, extends about 3 miles offshore from a position about 4 miles southward of the former point. There are irregular soundings for some distance northward and westward of this shoal bank.

Casuarina Bay is entered between a position

about 1/2 mile eastward of Teesta Point and a point about 1 3/4 miles southeastward.

Between the southeast entrance point of the bay and Parsons (Pygmalion) Point, about 16 1/2 miles south-southeastward, the coast is indented by a number of small bays, none of which have been closely examined. The villages of Kopen-heat and Tae-angha are located about 3 and 5 miles, respectively, south-southeastward of the southeast entrance point.

A 3 1/2-fathom shoal was reported to lie about 2 1/4 miles west-southwestward of Kopen-heat village. A small 4 1/4-fathom patch, with possibly less depths, was reported to lie about 3 1/2 miles westward of the same village. Numerous shoals have been reported to lie within a distance of 5 miles southward of this patch.

A 4-fathom patch and a 7-fathom patch lie about 8 miles southward and 11 1/2 miles westward, respectively, of the point of land close southward of Kopen-heat village.

Less water than charted was reported (1964) to exist between the positions 7°05'N., 93°33'E., and 6°57'N., 93°30'E.

ANCHORAGES.—Vessels with local knowledge can anchor in 11 fathoms in Casuarina Bay in a position about 1 mile southward of the northwest entrance point of that bay. Protection is afforded from the Northeast Monsoon.

Vessels with local knowledge can anchor in the entrance of a bight, between the villages of Kopen-heat and Tae-angha, in 15 fathoms, about 1 mile offshore.

CAUTION.—Extreme care is required when approaching the above anchorages, as numerous shoals have been reported to exist in this area from 3 to 5 miles offshore.

EAST COAST OF GREAT NICOBAR ISLAND

8C-26 The coast, between Murray Point, the northeast extremity of the island, and Parsons Point, about 29 miles southward, is hilly, wooded to the water's edge, and much indented. The latter point forms the south end of the island. Mariners are CAUTIONED that this coast has not been closely examined.

TRINKAT CHAMPLONG BAY is entered between Murray Point and Kerr Point, about 1 3/4 miles southeastward. The northwest shore of the bay is rocky and steep, with some coral heads extending up to 200 yards offshore in places. The south shore consists mostly of a sandy beach. Two conspicuous rocks are located about 900 yards westward and 1600

yards west-southwestward, respectively of Kerr Point. The western rock is flat-sided.

DEPTHS-DANGERS.—A coral reef, partly dry at low water, extends about 300 yards offshore, northeastward of the western rock. Other dangers lie within its 3-fathom curve. Depths of about 6 fathoms are found about 400 yards offshore. In 1945, shoaling was reported off Murray Point.

ANCHORAGE.—Trinkang Champlong Bay affords good and safe anchorage for large vessels. Protection is afforded from winds and swells of the Southwest Monsoon. In 1945, a warship anchored in 28 fathoms, coral and shells, with Murray Point bearing 310°, distant nearly 3/4 mile.

LAFUL ANCHORAGE is a slight indentation in the coast on the north side of South Point, which is located about 3 1/4 miles southward of Kerr Point. A ledge, with depths of less than 5-fathoms and apparently steep-to, extends about 400 yards offshore. The coast in the vicinity is fairly steep-to, with dense jungle within a few feet of the high-water line. Some patches of mangroves are found near the mouth of Mangrove Creek at the head of the bight.

The anchorage is sheltered from the westward only.

The anchorage should be approached by steering 270° for the middle of the south half of the sandy beach, which serves as a good mark. Anchorage should be taken when the coast southward of the bight is nearly shut in by South Point. **CAUTION** is necessary as the depths decrease sharply.

BETWEEN SOUTH POINT AND PIGEON ISLET, about 5 1/2 miles southward, the coast is rocky and has no marked indentations, except for a small bay northwestward of the island. This bay has not been closely examined, but is reported to provide good sheltered **ANCHORAGE** for a number of vessels. The bay is exposed to northeasterly winds. Depths of 17 fathoms are reported close off the shores of the bay.

8C-27 TENLAA BAY, located 3 miles southward of Pigeon Island, is narrow and has

depths of about 18 fathoms near its head. It is well sheltered, except from northeasterly winds.

COAST.—Between the southeast entrance point of Tenlaa Bay and the northeast point of Koal-ta-pain, a promontory, about 2 miles southeastward, the coast is rugged. The promontory forms the northeast side of Campbell Bay, an inlet fully exposed to south-east winds and seas. The entrance of the bay is difficult as it is encumbered with rocks. Cerberus Rock is located about 1/2 mile southward of the northeast entrance point of the bay.

Between the south entrance point of Campbell Bay and Tara Point, about 7 1/2 miles south-southwestward, the coast forms a slight bight, the head of which is much indented. Boat Rock, awash, about 1 mile southeastward of the north entrance point of the bight, has three smaller rocks close southwestward. Mataita-anla, the southernmost indentation in the bight, is located about 1 mile west-northwestward of Tara Point. Small vessels with local knowledge can **ANCHOR** in this indentation, protected from southwesterly winds and seas. Rocks and shoals restrict the available space.

GALATHEA (South) BAY, entered between Kwangtung (Hayward) Point, located about 3 miles southwestward of Tara Point, and Parsons Point, about 3 3/4 miles southwestward, afford shelter during the Northeast Monsoon. The Galathea River flows into the head of the bay. A sand bar blocks the entrance of the river at low water.

ISLAND-DANGERS.—Walker Island, located about 1 1/2 miles north-northeastward of Parsons Point, is flat, small and rocky. Several heaps of stones stand on the island. The island is prominent from southward, but is difficult to identify from eastward as it is backed by high land.

A rock, having a depth of less than 6 feet and over which the seas break, lies about 3/5 mile south-southeastward of Kwangtung Point. Its position is approximate.

Vessels can **ANCHOR**, as convenient, in 9 to 10 fathoms.



Pygmalion (Parsons Pt.)
Bearing 090°

SOUTH END OF GREAT NICOBAR ISLAND

CLIMATOLOGICAL TABLES

U.S. WEATHER BUREAU

AKYAB, BURMA—Latitude 20°08' N., longitude 92°55' E., elevation 29 feet

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars)	1012	1011	1009	1007	1004	1001	1001	1002	1004	1008	1010	1012	1007	50
TEMPERATURE														
Average (° F.)	70	73	78	83	84	82	81	80	82	82	78	72	79	60
Average daily maximum (° F.)	81	84	88	91	90	86	84	84	86	87	85	81	86	60
Average daily minimum (° F.)	59	61	68	75	78	77	77	77	77	76	71	63	72	60
Extreme highest each month (° F.)	94	95	100	99	99	98	93	91	94	99	92	90	100	60
Extreme lowest each month (° F.)	47	48	54	62	66	68	71	71	70	65	60	51	47	60
RELATIVE HUMIDITY														
Average percent (0800)	80	75	77	75	79	90	92	90	88	86	84	84	83	50
Average percent (1700)	63	65	70	73	79	87	90	88	86	81	79	73	78	5
CLOUD COVER														
Average amount (tenths) (1600)	0.8	1.3	1.9	3.2	5.4	8.2	8.5	8.1	6.9	4.1	2.7	1.6	4.4	16
Less than 3/10 average amount (mean number of days) (0800)	24	20	17	12	5	1	0	0	1	8	12	20	122	5
More than 7/10 average amount (mean number of days) (0800)	4	6	9	8	20	28	30	30	26	17	12	9	199	5
PRECIPITATION														
Average amount (inches)	0.06	0.16	0.41	1.98	15.40	45.33	55.09	44.64	22.71	11.26	5.10	0.75	202.89	60
Greatest amount (inches)	1.50	3.60	5.76	15.83	62.08	97.60	97.76	88.06	54.25	27.60	35.20	7.43	323.48	93
Least amount (inches)	0	0	0	0	1.56	13.53	22.87	18.50	8.81	1.30	0	0	130.32	93
Maximum in 24 hours (inches)	1.0	2.3	2.9	11.7	14.1	15.2	13.7	16.2	9.8	13.0	18.6	5.3	18.6	71
0.01 inch or more (mean number of days)	0	0.4	0	3	20	28	31	29	26	11	3	0.6	15.2	5
WIND														
Direction (percentage of 0800 obs.):														
North	49	39	29	16	7	1	1	1	6	18	40	45	21	16
Northeast	40	43	48	36	30	12	5	12	25	51	49	48	32	16
East	2	2	8	11	23	26	22	26	29	14	5	1	14	16
Southeast	0	1	3	4	12	27	23	20	16	7	2	1	10	16
South	0	1	2	7	7	18	25	19	9	3	0	0	8	16
Southwest	0	1	2	7	7	10	18	15	7	1	1	0	6	16
West	0	0	1	6	5	3	4	2	3	2	0	1	2	16
Northwest	6	8	4	6	3	2	1	1	2	3	2	3	3	16
Calm	3	5	4	7	7	3	3	4	5	1	1	2	4	16
Direction (percentage of 1700 obs.):														
North	1	0	1	1	3	1	0	0	1	2	3	3	1	5
Northeast	1	0	0	2	1	2	2	3	1	3	4	2	2	5
East	0	0	1	0	6	4	3	1	4	5	3	1	2	5
Southeast	0	0	1	1	18	17	20	17	17	7	0	2	8	5
South	0	2	6	4	21	41	40	42	28	10	3	0	16	5
Southwest	4	10	21	31	24	24	27	29	21	19	7	7	19	5
West	62	61	60	56	21	7	4	6	19	41	49	54	38	5
Northwest	32	27	10	5	3	2	2	1	6	12	29	28	13	5
Calm	0	0	0	0	3	2	2	1	3	1	2	3	1	5
37 knots or over (mean number of days)	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mean wind speed (m.p.h.)	6.1	7.0	7.2	7.7	8.4	10.9	11.4	10.0	7.8	6.6	5.5	5.7	7.9	15
VISIBILITY														
Days with visibility less than ½ mile	3	7	7	3	0.2	0	0	0	0.2	2	5	5	32.4	5

AMHERST, BURMA—Latitude 16°05' N., longitude 97°34' E., elevation 71 feet

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars)	1011	1009	1008	1006	1005	1004	1004	1005	1006	1008	1009	1010	1007	10
TEMPERATURE														
Average (° F.)	78	79	82	85	83	80	78	79	79	81	81	78	80	10
Average daily maximum (° F.)	88	88	90	91	88	84	82	82	83	87	89	87	86	10
Average daily minimum (° F.)	69	71	75	78	77	75	75	75	75	75	74	70	74	10
Extreme highest each month (° F.)	93	93	96	96	95	91	87	90	93	93	95	95	96	10
Extreme lowest each month (° F.)	59	63	67	72	71	72	71	72	70	68	66	54	54	10
RELATIVE HUMIDITY														
Average percent (0800)	64	65	62	66	78	86	89	89	86	77	69	69	75	10
Average percent (1700)	69	70	69	73	80	87	89	89	87	78	73	69	79	5
CLOUD COVER														
Average amount (tenths) (0800)	4.7	4.6	5.3	7.5	8.6	9.3	9.7	9.4	9.0	7.1	5.4	4.7	7.1	10
Less than 3/10 average amount (mean number of days) (0800)	6	5	6	0	0	0	0	0	0	3	6	10	36	5
More than 7/10 average amount (mean number of days) (0800)	12	12	17	27	30	29	31	31	28	23	18	13	271	5
PRECIPITATION														
Average amount (inches)	0.04	0.46	0.28	4.82	23.76	39.20	45.85	42.29	29.20	10.01	1.63	1.25	198.79	10
Greatest amount (inches)	0.34	2.37	1.20	10.02	34.21	57.53	65.79	65.65	44.14	34.98	4.21	8.20	219.87	10
Least amount (inches)	0	0	0	0.32	17.73	24.93	30.61	21.91	13.53	5.30	0	0	146.32	10
Maximum in 24 hours (inches)	0.33	2.28	1.12	3.77	5.26	6.61	6.67	7.92	6.99	7.61	2.42	2.39	7.92	10
0.01 inch or more (mean number of days)	0.4	2	0.4	8	26	29	30	29	24	13	5	3	169.8	5
WIND														
Direction (percentage of 0800 obs.):														
North	1	2	0	5	4	1	1	2	3	3	2	1	2	10
Northeast	26	10	4	6	6	1	1	1	2	13	21	25	10	10
East	52	28	19	13	14	4	3	4	8	31	47	58	23	10
Southeast	11	32	31	12	19	14	11	11	16	14	11	7	16	10
South	3	10	18	22	22	45	37	32	33	12	5	3	20	10
Southwest	0	2	5	9	4	15	24	18	10	2	1	0	8	10
West	0	2	4	8	7	6	9	8	4	1	1	0	4	10
Northwest	0	0	1	8	9	1	1	4	3	2	0	0	2	10
Calm	7	14	18	17	15	13	13	20	21	22	12	6	15	10
Direction (percentage of 1400 obs.):														
North	20	2	0	0	1	0	0	0	1	8	13	15	5	5
Northeast	2	0	0	0	0	0	0	0	0	10	10	15	3	5
East	6	0	0	0	0	0	0	0	1	11	15	19	4	5
Southeast	1	0	1	1	5	3	1	3	5	3	6	0	2	5
South	0	4	6	17	31	38	37	31	28	7	2	2	17	5
Southwest	5	25	54	61	48	48	47	42	18	5	3	34	5	5
West	25	50	37	20	11	8	8	14	14	21	17	12	20	5
Northwest	39	18	2	0	1	0	2	5	12	16	16	26	10	5
Calm	2	1	0	1	3	3	5	3	4	10	16	8	5	5
34 knots or over (mean number of days) (0800)	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mean wind speed (m.p.h.)	5.3	5.9	7.9	8.6	8.4	9.5	9.9	8.9	7.5	4.9	4.5	5.3	7.2	10
VISIBILITY														
Days with visibility less than ½ mile ..	0.2	2	2	0.2	0	0	0	0	0	0	0.2	0.4	5.0	5

CALCUTTA, INDIA—Latitude 22°32' N., longitude 88°20' E., elevation 21 feet

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars)	1016	1013	1010	1007	1003	999	999	1000	1004	1010	1013	1016	1007	20
TEMPERATURE														
Average (° F.)	67	72	81	86	87	85	84	84	84	81	74	67	79	60
Average daily maximum (° F.)	80	84	92	97	96	92	89	89	90	89	84	79	88	60
Average daily minimum (° F.)	55	59	69	75	77	79	79	78	78	74	64	55	70	60
Extreme highest each month (° F.)	89	98	104	107	108	111	98	96	97	96	92	87	111	60
Extreme lowest each month (° F.)	44	46	50	61	65	70	73	74	72	63	51	45	44	60
RELATIVE HUMIDITY														
Average percent (0800)	85	82	79	76	72	82	86	88	86	85	79	80	82	50
Average percent (1700)	51	48	45	48	68	78	82	81	80	75	63	59	65	5
CLOUD COVER														
Average amount (tenths) (0800)	2.3	2.9	2.8	3.8	5.2	7.6	8.7	8.4	7.1	3.8	2.3	1.7	4.7	50
Less than 3/10 average amount (mean number of days) (0800)	25	17	17	17	6	2	0	0	4	17	21	24	150	27
More than 7/10 average amount (mean number of days) (0800)	4	9	8	8	19	26	30	28	20	11	6	5	174	27
PRECIPITATION														
Average amount (inches)	0.37	1.17	1.36	1.75	5.49	11.69	12.81	12.92	9.95	4.48	0.81	0.18	62.98	60
Greatest amount (inches)	2.25	7.96	6.27	7.30	17.11	31.15	25.31	26.91	45.55	16.25	9.39	3.02	93.31	122
Least amount (inches)	0	0	0	0	0.08	1.60	4.53	4.82	2.21	0	0	0	35.79	122
Maximum in 24 hours (inches)	1.67	3.18	2.75	4.23	6.15	11.95	7.23	9.96	14.53	6.78	3.26	2.09	14.53	60
0.01 inch or more (mean number of days)	3	4	3	5	9	17	23	23	18	9	1.0	0.5	115.5	10
WIND														
Direction (percentage of 0800 obs.):														
North	26	17	6	2	2	2	1	2	3	18	41	42	13	27
Northeast	8	9	3	2	3	3	3	4	4	9	10	7	5	27
East	3	4	3	4	10	13	15	16	16	10	4	1	8	27
Southeast	2	3	6	8	14	17	19	19	20	8	2	1	10	27
South	4	7	20	35	37	32	25	25	21	8	1	1	18	27
Southwest	5	14	34	42	26	25	26	22	20	14	2	2	20	27
West	5	9	8	4	3	4	8	7	8	10	5	4	6	27
Northwest	11	11	8	2	1	2	2	3	4	10	14	15	7	27
Calm	35	25	13	2	3	3	2	2	5	15	21	27	13	27
Direction (percentage of 1700 obs.):														
North	14	14	6	3	1	1	1	1	2	9	13	16	7	5
Northeast	0	3	1	0	3	3	1	2	0	3	2	1	2	5
East	1	3	1	0	9	7	3	4	5	6	1	0	3	5
Southeast	3	7	3	3	13	23	17	18	12	8	1	0	9	5
South	3	8	22	35	37	39	37	33	19	10	1	1	20	5
Southwest	5	11	29	38	28	18	29	25	26	8	1	0	18	5
West	4	11	8	6	2	1	3	4	2	1	0	1	4	5
Northwest	18	20	15	3	3	3	0	1	4	5	12	12	8	5
Calm	53	23	15	11	5	5	8	12	30	50	70	70	29	5
34 knots or over (mean number of days) (0800)	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mean wind speed (m.p.h.)	2.0	2.6	3.5	4.9	5.0	4.3	3.7	3.4	2.8	2.1	1.9	1.9	3.2	60
VISIBILITY														
Days with visibility less than ½ mile (0800)	9	7	1.1	0	0	0.1	0	0.4	0.1	0.3	2	6	26	8

CHITTAGONG, EAST PAKISTAN—Latitude 22°21' N., longitude 91°50' E., elevation 87 feet

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars)	1016	1014	1011	1009	1006	1002	1001	1003	1006	1010	1013	1015	1009	50
TEMPERATURE														
Average (° F.)	67	71	77	81	82	82	81	81	82	80	75	68	77	60
Average daily maximum (° F.)	79	82	87	89	89	87	86	86	87	87	84	79	85	60
Average daily minimum (° F.)	55	59	67	73	76	77	77	76	76	73	66	57	69	60
Extreme highest each month (° F.)	92	93	100	102	99	99	97	97	99	98	94	88	102	77
Extreme lowest each month (° F.)	45	46	51	50	65	68	67	70	68	62	52	47	45	77
RELATIVE HUMIDITY														
Average percent (0800)	81	76	76	78	79	84	87	87	86	85	84	85	82	50
Average percent (1700)	59	58	67	70	78	84	86	86	84	79	71	68	74	5
CLOUD COVER														
Average amount (tenths) (0800)	1.8	2.2	3.1	4.3	5.5	7.5	7.9	7.9	6.9	4.5	3.2	20	4.7	50
Less than 3/10 average amount (mean number of days) (0700)	26	20	18	14	9	2	1	2	5	13	19	23	152	5
More than 7/10 average amount (mean number of days) (0700)	4	6	9	8	17	22	27	24	18	13	8	6	162	5
PRECIPITATION														
Average amount (inches)	0.39	0.91	2.28	4.57	11.22	19.96	25.28	22.52	13.54	8.98	2.21	0.67	112.52	30
Greatest amount (inches)	2.71	9.85	16.66	26.80	20.86	43.41	41.81	45.91	39.27	25.05	12.63	7.74	153.39	60
Least amount (inches)	0	0	0	0	1.14	8.36	7.28	4.57	1.54	0.98	0	0	63.18	60
Maximum in 24 hours (inches)	2.71	9.25	6.97	7.10	6.37	15.06	10.57	10.67	10.20	16.57	5.38	4.59	16.57	60
0.01 inch or more (mean number of days)	1.5	3	5	7	13	22	26	25	21	8	2	1.0	134.5	10
WIND														
Direction (percentage of 0800 obs.):														
North	26	21	6	4	2	1	1	1	4	12	24	30	11	15
Northeast	48	37	17	8	7	3	1	2	9	29	45	50	21	15
East	19	23	30	17	15	11	8	8	18	24	19	14	17	15
Southeast	5	14	33	41	44	47	51	47	43	21	6	3	30	15
South	1	2	10	25	27	33	33	35	21	7	21	0	16	15
Southwest	0	1	1	3	3	3	4	4	3	2	0	1	2	15
West	0	0	1	1	1	1	1	1	1	1	0	0	1	15
Northwest	1	1	2	1	1	1	1	1	1	2	3	2	1	15
Calm	1	1	1	1	1	1	1	1	1	3	2	1	1	15
Direction (percentage of 1700 obs.):														
North	19	11	3	2	2	1	0	1	4	16	19	24	9	15
Northeast	2	2	1	1	3	1	1	0	1	3	5	5	2	15
East	0	1	0	1	3	3	1	1	1	3	1	1	1	15
Southeast	1	1	3	0	10	20	15	12	9	1	1	1	7	15
South	1	6	21	21	30	40	55	45	29	10	0	0	22	15
Southwest	12	27	46	51	41	29	26	35	31	12	3	7	27	15
West	29	30	21	19	10	5	1	6	14	21	20	26	17	15
Northwest	36	23	5	5	1	1	0	1	7	25	41	37	15	15
Calm	0	0	0	0	0	0	0	0	0	1	0	0	0	15
34 knots or over (mean number of days) (0800)	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mean wind speed (m.p.h.)	2.5	3.0	4.0	5.1	4.9	5.4	5.5	4.9	3.5	2.3	2.3	2.3	3.8	60
VISIBILITY														
Days with visibility less than ½ mile (0800)	0.3	0.5	1.0	0.1	0	0.3	0.1	0	0.1	0.7	0.5	0.7	4.3	8

COCANADA, INDIA—Latitude 16°57' N., longitude 82°14' E., elevation 26 feet

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars)	1015	1013	1011	1008	1004	1001	1002	1003	1005	1009	1012	1015	1008	50
TEMPERATURE														
Average (° F.)	74	78	83	87	91	89	84	84	84	82	77	74	82	45
Average daily maximum (° F.)	81	86	92	96	99	97	90	90	90	88	83	81	89	45
Average daily minimum (° F.)	66	70	74	79	82	81	78	78	78	76	72	66	75	45
Extreme highest each month (° F.)	92	100	108	109	116	117	107	100	99	99	92	90	117	45
Extreme lowest each month (° F.)	58	60	61	66	70	71	70	71	72	66	60	57	57	45
RELATIVE HUMIDITY														
Average percent (0800)	78	78	77	76	74	75	81	83	83	80	76	75	78	50
Average percent (1700)	69	66	60	62	62	62	69	71	73	72	67	68	67	10
CLOUD COVER														
Average amount (tenths) (0800)	3.4	3.3	3.4	5.1	5.5	7.0	7.7	7.4	6.7	5.1	4.5	3.3	5.2	60
Less than 3/10 average amount (mean number of days) (0800)	20	16	16	9	7	5	5	5	4	8	10	20	125	5
More than 7/10 average amount (mean number of days) (0800)	3	6	3	8	14	18	21	19	16	14	8	2	132	5
PRECIPITATION														
Average amount (inches)	0.28	0.32	0.48	0.64	1.54	4.68	6.55	5.56	6.16	8.52	5.59	0.70	41.02	60
Greatest amount (inches)	3.28	4.02	4.35	5.28	10.31	17.75	17.23	11.26	15.52	32.85	27.43	8.48	71.87	60
Least amount (inches)	0	0	0	0	0	0.79	1.09	1.19	0.66	0	0	0	16.06	60
Maximum in 24 hours (inches)	3.08	1.77	2.82	2.40	4.32	6.06	4.20	5.75	5.05	11.10	10.88	5.13	11.10	60
0.01 inch or more (mean number of days)	1.3	1.7	2	3	4	13	19	14	13	13	5	0.5	89.5	10
WIND														
Direction (percentage of 0800 obs.):														
North	26	16	6	1	2	0	1	1	4	14	25	37	11	20
Northeast	31	16	3	3	4	1	0	1	4	25	50	35	15	20
East	1	3	2	1	3	1	0	0	1	2	2	1	1	20
Southeast	0	4	4	7	6	1	0	0	1	1	1	0	2	20
South	0	1	2	6	5	1	1	0	1	0	0	0	1	20
Southwest	0	0	11	34	36	37	35	37	22	4	0	0	18	20
West	1	4	15	17	18	40	45	42	31	9	1	0	19	20
Northwest	15	21	12	7	5	5	5	5	9	16	9	9	10	20
Calm	26	35	45	24	21	14	13	14	27	29	12	18	23	20
Direction (percentage of 1400 obs.):														
North	0	0	0	1	0	0	0	1	0	0	0	0	0	5
Northeast	6	6	1	0	3	0	0	0	2	19	33	12	7	5
East	23	4	1	1	4	1	0	1	2	22	25	56	12	5
Southeast	64	70	44	23	25	11	1	1	20	25	29	30	29	5
South	5	15	36	45	37	15	4	2	4	2	11	0	15	5
Southwest	1	3	17	29	19	35	45	48	36	14	0	1	20	5
West	0	0	0	0	3	23	35	36	12	5	0	0	9	5
Northwest	0	1	0	2	3	7	9	6	9	6	0	1	4	5
Calm	1	1	1	1	6	8	6	5	15	7	2	0	4	5
Mean wind speed (knots) (0800)	4	3	3	4	4	6	5	5	5	5	5	5	4	10

CUTTACK, INDIA—Latitude 20°29' N., longitude 85°52' E., elevation 87 feet

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars)	1015	1013	1010	1007	1002	999	999	1001	1004	1009	1013	1015	1007	20
TEMPERATURE														
Average (° F.)	72	77	84	89	91	88	84	84	84	82	76	71	82	30
Average daily maximum (° F.)	83	88	97	101	101	96	90	89	90	90	85	81	91	60
Average daily minimum (° F.)	60	65	72	78	80	80	78	78	78	74	66	59	72	60
Extreme highest each month (° F.)	96	102	109	118	118	116	104	99	98	102	97	91	118	60
Extreme lowest each month (° F.)	46	51	58	63	69	71	70	73	70	62	50	48	40	60
RELATIVE HUMIDITY														
Average percent (0800)	81	79	76	73	73	78	83	84	83	81	77	78	79	50
Average percent (1700)	49	49	45	47	61	72	82	82	80	72	58	51	62	5
CLOUD COVER														
Average amount (tenths)	1.1	1.6	2.3	2.9	4.3	6.2	7.5	7.1	5.6	3.7	2.1	1.3	3.9	11
Less than 3/10 average amount (mean number of days) (0800)	20	16	15	13	5	1	0	0	2	10	12	20	114	5
More than 7/10 average amount (mean number of days) (0800)	6	8	9	8	16	23	28	28	21	11	9	5	172	5
PRECIPITATION														
Average amount (inches)	0.39	1.00	0.75	1.02	2.76	8.15	13.98	14.37	9.92	6.61	1.61	0.20	60.65	30
Greatest amount (inches)	3.19	5.23	5.38	5.74	19.02	23.10	26.01	35.50	30.16	16.43	10.54	2.44	90.87	60
Least amount (inches)	0	0	0	0	0.11	1.05	3.91	5.52	2.09	0	0	0	35.47	60
Maximum in 24 hours (inches)	2.40	3.86	3.90	3.72	5.62	8.10	8.00	12.63	9.81	11.52	5.48	2.16	12.63	60
0.01 inch or more (mean number of days)	1.7	3	4	4	7	16	23	20	17	9	2	0.6	107.3	10
WIND														
Direction (percentage of 0800 obs.):														
North	1	0	0	0	0	1	0	1	1	1	3	0	1	20
Northeast	4	8	3	1	1	3	3	3	5	6	9	5	4	20
East	4	8	5	2	2	4	3	3	7	5	4	3	4	20
Southeast	0	0	1	2	4	1	0	1	3	1	0	0	1	20
South	0	1	7	16	20	10	3	3	3	2	0	0	5	20
Southwest	5	6	21	34	36	30	29	28	15	10	5	6	19	20
West	6	5	12	13	13	19	23	23	17	12	7	9	13	20
Northwest	1	1	0	1	1	3	4	3	4	1	3	0	2	20
Calm	80	71	51	30	22	29	35	36	46	61	70	76	51	20
Direction (percentage of 1700 obs.):														
North	0	1	1	0	1	2	0	1	1	0	1	4	1	5
Northeast	1	2	1	1	5	1	1	1	4	5	7	2	3	5
East	4	8	4	1	4	1	1	4	3	9	13	11	5	5
Southeast	12	6	8	4	12	2	2	2	5	10	6	6	6	5
South	7	16	31	37	35	17	8	11	7	8	2	1	15	5
Southwest	6	16	26	40	32	37	32	28	19	6	0	0	20	5
West	2	7	6	6	4	14	23	20	11	4	0	4	8	5
Northwest	3	4	3	1	1	3	1	2	2	2	1	5	2	5
Calm	66	39	19	9	7	23	32	32	49	56	69	68	40	5
34 knots or over (mean number of days)	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mean wind speed (m.p.h.)	1.1	1.5	2.4	3.6	3.8	3.0	2.6	2.2	1.8	1.3	1.2	0.9	2.1	60
VISIBILITY														
Days with visibility less than ½ mile (0800)	3	3	1	0	0.1	1	3	1.4	0.5	0.6	0.6	1.0	15.2	8

DIAMOND ISLAND, BURMA—Latitude 15°51' N., longitude 94°19' E., elevation 41 feet

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars)	1011	1010	1009	1007	1005	1003	1003	1004	1005	1007	1009	1011	1007	50
TEMPERATURE														
Average (° F.)	78	79	80	83	84	81	80	80	81	82	81	78	81	60
Average daily maximum (° F.)	84	84	85	88	88	86	84	84	85	86	86	83	85	60
Average daily minimum (° F.)	72	73	76	79	79	77	76	76	77	78	76	73	76	60
Extreme highest each month (° F.)	92	92	93	98	97	92	92	92	90	94	93	92	98	60
Extreme lowest each month (° F.)	61	64	67	69	62	64	69	69	68	69	68	62	61	60
RELATIVE HUMIDITY														
Average percent (0800)	67	66	67	67	74	82	85	85	84	80	75	69	75	50
Average percent (1700)	71	74	78	82	83	86	87	88	87	83	81	74	81	5
CLOUD COVER														
Average amount (tenths) (0800)	2.9	2.6	3.1	4.1	6.5	8.2	8.5	8.1	7.4	5.7	4.4	3.4	5.4	50
Less than 3/10 average amount (mean number of days) (0800)	16	20	18	8	2	0	0	0	1	4	5	9	83	5
More than 7/10 average amount (mean number of days) (0800)	9	5	4	14	24	28	29	29	26	20	20	13	221	5
PRECIPITATION														
Average amount (inches)	0.12	0.15	0.16	1.31	11.16	25.17	27.63	25.53	17.34	8.38	4.96	0.77	122.68	60
Greatest amount (inches)	1.57	4.35	4.55	9.73	26.86	49.83	51.69	87.82	43.66	18.02	16.52	7.30	209.50	60
Least amount (inches)	0	0	0	0	2.70	10.91	11.29	10.75	4.74	2.83	0	0	84.40	60
Maximum in 24 hours (inches)	1.53	3.82	1.88	5.33	8.15	8.41	7.37	13.75	9.48	6.72	5.82	5.25	13.75	60
0.01 inch or more (mean number of days)	0.2	0.4	0	2	15	26	25	25	22	12	8	1.8	137	5
WIND														
Direction (percentage of 0800 obs.):														
North	28	43	25	9	3	1	0	0	2	6	7	15	12	20
Northeast	50	16	6	5	6	1	1	1	4	29	51	63	19	20
East	10	4	3	2	5	1	1	1	6	19	24	17	8	20
Southeast	0	1	1	2	8	7	5	5	10	12	5	1	5	20
South	0	0	0	1	8	19	11	10	10	6	3	0	6	20
Southwest	0	0	0	3	20	50	61	59	35	9	2	0	19	20
West	0	2	10	25	20	15	16	17	13	4	1	0	10	20
Northwest	7	28	50	49	24	3	2	3	8	6	3	1	15	20
Calm	4	6	5	5	6	4	3	5	12	10	5	2	6	20
Direction (percentage of 1400 obs.):														
North	19	18	8	7	1	1	0	0	5	6	9	11	7	5
Northeast	2	0	0	0	2	0	0	0	1	10	11	17	4	5
East	5	0	0	1	1	0	0	0	1	12	18	21	5	5
Southeast	3	1	1	1	7	7	3	1	8	21	18	9	7	5
South	2	1	1	3	13	13	10	5	9	10	3	2	6	5
Southwest	1	1	5	3	31	60	60	49	31	7	2	0	21	5
West	2	10	15	27	26	15	26	41	32	13	2	2	18	5
Northwest	61	68	70	58	17	3	1	2	10	15	27	32	29	5
Calm	5	1	0	0	2	1	0	2	3	6	10	6	3	5
34 knots or over (mean number of days) (0800)	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mean wind speed (m.p.h.)	4.8	6.9	7.4	6.9	6.4	8.2	8.4	7.5	6.0	5.8	7.0	7.3	6.9	60
VISIBILITY														
Days with visibility less than ½ mile (0800)	0	1	0	0	0	2	1	0.4	0	0	0	0	4.4	5

MADRAS, INDIA—Latitude 13°14' N., longitude 80°15' E., elevation 51 feet

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars)	1014	1013	1011	1008	1005	1003	1004	1005	1006	1009	1011	1013	1009	20
TEMPERATURE														
Average (° F.)	76	78	82	87	91	91	87	86	86	83	79	76	84	30
Average daily maximum (° F.)	85	88	91	96	101	100	96	95	94	90	85	84	92	60
Average daily minimum (° F.)	67	68	72	78	82	81	79	78	77	75	72	69	75	60
Extreme highest each month (° F.)	93	98	102	109	113	110	106	104	102	102	95	95	113	60
Extreme lowest each month (° F.)	57	59	62	68	70	69	71	69	69	62	59	57	57	60
RELATIVE HUMIDITY														
Average percent (0800)	87	83	80	74	63	59	65	71	75	83	86	87	76	50
Average percent (1700)	64	67	67	70	64	60	61	63	71	73	77	69	67	5
CLOUD COVER														
Average amount (tenths) (0800)	3.9	2.8	2.0	4.2	4.3	6.0	7.1	6.8	6.2	5.7	6.0	5.0	5.1	50
Less than 3/10 average amount (mean number of days) (0800)	12	15	16	8	11	5	3	5	7	9	5	10	106	5
More than 7/10 average amount (mean number of days) (0800)	12	8	8	15	16	21	26	22	20	18	22	15	203	5
PRECIPITATION														
Average amount (inches)	1.41	0.41	0.29	0.61	1.03	1.86	3.60	4.58	4.68	12.04	13.96	5.45	49.92	60
Greatest amount (inches)	9.61	6.41	10.34	7.52	23.30	8.63	11.75	13.24	14.89	37.73	42.85	22.81	88.44	138
Least amount (inches)	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.72	0.47	0.44	0.20	0.00	18.45	138
Maximum in 24 hours (inches)	8.38	4.85	2.54	3.29	5.22	2.33	4.58	3.09	3.95	9.20	9.30	10.30	10.30	60
0.01 inch or more (mean number of days)	3	1.8	2	2	1.5	8	13	13	13	15	14	9	95.3	10
WIND														
Direction (percentage of 0800 obs.):														
North	9	3	2	1	1	0	0	1	1	5	15	18	5	19
Northeast	18	6	2	1	1	1	0	1	1	3	18	23	6	19
East	13	15	5	2	1	0	1	1	1	5	7	7	5	19
Southeast	2	8	6	7	4	1	1	1	1	3	2	1	3	19
South	1	4	18	39	36	7	3	6	7	6	2	1	11	19
Southwest	3	16	33	36	35	45	43	45	42	21	3	1	26	19
West	13	24	23	9	18	45	50	42	40	30	12	6	26	19
Northwest	41	23	10	3	3	2	3	3	7	26	41	44	17	19
Calm	1	1	2	3	1	1	0	1	1	2	1	1	1	19
Direction (percentage of 1400 obs.):														
North	12	1	0	0	0	0	0	3	2	8	27	35	7	5
Northeast	56	15	3	0	1	1	2	1	2	20	44	51	16	5
East	25	40	24	15	5	10	10	18	13	27	13	13	18	5
Southeast	6	35	50	59	53	38	34	38	48	25	6	0	34	5
South	1	9	21	24	33	30	22	15	19	10	1	0	15	5
Southwest	0	0	1	1	5	7	8	5	6	1	1	0	3	5
West	0	0	0	1	1	13	21	17	6	4	1	0	5	5
Northwest	0	0	0	0	3	1	3	3	4	5	6	1	2	5
Calm	0	0	1	0	0	0	0	0	0	0	1	0	0	5
34 knots or over (mean number of days)	0	0	0	0	0.1	0	0	0	0	0	0	0	0.1	10
Mean wind speed (m.p.h.)	11.0	9.5	9.6	11.1	11.8	11.9	10.8	10.7	10.0	8.7	12.3	12.5	10.8	15
VISIBILITY														
Days with visibility less than ½ mile	0.5	1	1	0	0	0	0	0	0	0.2	0.2	0.4	3.3	10

MASULIPATAM, INDIA—Latitude 16°11' N., longitude 81°08' E., elevation 10 feet

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars)	1015	1013	1011	1008	1004	1001	1003	1003	1005	1009	1012	1014	1008	20
TEMPERATURE														
Average (° F.)	75	77	81	86	90	89	84	84	84	82	77	74	82	30
Average daily maximum (° F.)	83	86	91	94	100	98	92	91	91	89	85	83	90	60
Average daily minimum (° F.)	66	69	72	78	82	81	78	78	78	76	71	67	75	60
Extreme highest each month (° F.)	94	99	108	112	118	116	109	102	100	99	94	90	118	72
Extreme lowest each month (° F.)	57	58	62	65	67	69	67	71	69	66	57	58	57	72
RELATIVE HUMIDITY														
Average percent (0800)	80	84	82	79	75	74	81	82	84	83	81	81	81	50
Average percent (1700)	67	65	64	66	61	58	61	67	71	71	69	68	66	5
CLOUD COVER														
Average amount (tenths)	2.2	2.6	3.2	4.5	4.8	7.0	8.2	7.6	6.8	4.8	3.9	2.6	4.9	32
Less than 3/10 average amount (mean number of days) (0800)	19	13	16	9	10	3	4	4	5	9	9	16	117	5
More than 7/10 average amount (mean number of days) (0800)	7	8	7	12	14	17	19	21	18	12	15	9	159	5
PRECIPITATION														
Average amount (inches)	0.04	0.43	0.35	0.71	1.42	4.17	7.84	5.98	6.14	10.39	4.33	0.59	42.40	30
Greatest amount (inches)	3.16	8.90	8.22	4.49	9.51	11.72	18.74	19.93	17.45	26.56	20.73	8.88	69.49	88
Least amount (inches)	0.00	0.00	0.00	0.00	0.00	0.07	1.00	1.08	1.47	0.00	0.00	0.00	21.33	88
Maximum in 24 hours (inches)	3.00	3.9	5.92	3.66	3.25	5.25	5.8	5.34	4.5	9.95	14.00	4.10	14.00	60
0.01 inch or more (mean number of days)	0.4	0.6	0.6	1.1	2.2	6.1	11.4	9.9	9.7	8.1	4.6	0.8	55.5	50
WIND														
Direction (percentage of 0800 obs.):														
North	36	19	4	1	1	2	0	1	1	18	38	40	13	20
Northeast	23	15	6	1	1	0	0	0	1	14	30	31	10	20
East	6	7	4	1	1	0	0	0	1	4	8	8	3	20
Southeast	6	18	20	20	13	3	0	0	1	5	4	3	8	20
South	3	10	33	49	29	5	3	3	5	5	1	0	12	20
Southwest	0	1	7	18	18	8	12	12	13	4	0	0	8	20
West	0	0	2	3	13	34	40	38	26	9	1	0	14	20
Northwest	1	1	1	1	14	42	35	35	35	17	5	1	16	20
Calm	25	28	23	7	9	6	9	10	16	24	14	17	16	20
Direction (percentage of 1700 obs.):														
North	0	1	0	0	2	3	2	5	5	6	11	7	3	5
Northeast	3	1	0	1	1	1	1	1	5	22	23	14	6	5
East	19	9	1	1	0	2	2	1	1	12	15	18	7	5
Southeast	65	61	52	51	46	15	4	13	20	31	35	48	37	5
South	11	26	40	35	30	24	9	5	11	8	5	11	18	5
Southwest	1	2	7	12	11	18	26	19	15	7	2	1	10	5
West	0	0	0	0	5	17	21	18	13	3	2	0	7	5
Northwest	1	0	0	0	6	21	35	39	29	10	6	1	12	5
Calm	0	0	0	0	0	0	0	0	0	1	1	1	0	5
34 knots or over (mean number of days)	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mean wind speed (m.p.h.)	3.9	3.8	4.3	5.8	6.6	7.5	6.6	6.0	4.5	3.6	4.2	4.2	5.1	20
VISIBILITY														
Days with visibility less than ½ mile (0800)	0.3	0	0.1	0	0	0	0.1	0	0	0	0.1	0	0.6	8

MERGUI, BURMA—Latitude 12°26' N., longitude 98°36' E., elevation 66 feet

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars)	1010	1009	1008	1007	1006	1006	1006	1006	1007	1008	1009	1009	1008	50
TEMPERATURE														
Average (° F.)	78	80	82	83	82	80	79	79	79	80	79	78	80	60
Average daily maximum (° F.)	87	89	90	92	89	85	84	84	84	86	87	87	87	60
Average daily minimum (° F.)	69	71	73	75	75	74	74	73	73	73	71	69	72	60
Extreme highest each month (° F.)	95	97	99	98	99	98	97	93	92	93	94	94	99	70
Extreme lowest each month (° F.)	44	47	63	66	66	65	66	65	66	62	59	48	44	70
RELATIVE HUMIDITY														
Average percent (0800)	72	73	72	72	82	89	91	91	90	84	76	71	80	50
Average percent (1700)	71	72	72	73	82	87	88	89	88	82	77	72	79	5
CLOUD COVER														
Average amount (tenths) (0800)	2.5	3.0	3.1	3.5	5.6	6.8	7.1	6.8	6.4	5.0	3.7	2.9	4.7	50
Less than 3/10 average amount (mean number of days) (0800)	6	5	6	5	0	0	0	0	0	1	1	3	27	5
More than 7/10 average amount (mean number of days) (0800)	5	5	6	9	23	28	30	29	26	16	9	3	189	5
PRECIPITATION														
Average amount (inches)	0.97	2.05	3.14	4.95	16.68	30.02	32.91	30.01	24.94	12.06	3.76	0.79	162.28	60
Greatest amount (inches)	5.18	6.64	10.40	23.09	36.40	62.74	53.47	56.64	43.77	31.72	22.00	6.95	213.02	87
Least amount (inches)	0	0	0	0.19	2.56	15.45	13.12	7.04	8.18	3.91	0	0	132.00	87
Maximum in 24 hours (inches)	2.18	4.55	3.72	5.40	6.13	9.61	9.45	7.05	6.53	4.67	5.23	5.39	9.61	70
0.01 inch or more (mean number of days)	3	4	6	11	22	27	29	28	24	20	11	3	188	5
WIND														
Direction (percentage of 0800 obs.):														
North	2	1	0	5	1	1	1	1	1	3	3	6	2	5
Northeast	25	8	15	17	6	4	6	8	4	23	27	40	15	5
East	27	29	28	23	19	15	8	6	19	25	30	27	21	5
Southeast	36	56	44	37	49	44	43	37	44	28	30	23	40	5
South	1	0	2	3	6	13	9	9	8	4	1	2	5	5
Southwest	1	0	0	2	8	11	20	21	9	3	0	0	6	5
West	0	0	0	1	2	3	5	3	2	2	0	0	2	5
Northwest	1	0	1	3	3	5	3	6	3	2	0	0	2	5
Calm	7	6	10	9	6	4	5	9	10	10	9	2	7	5
Direction (percentage of 1700 obs.):														
North	26	10	11	10	2	3	5	3	4	8	17	23	10	5
Northeast	10	8	10	11	4	3	2	2	4	11	20	26	9	5
East	6	12	5	4	7	4	4	5	5	10	13	10	6	5
Southeast	6	11	9	9	22	19	15	19	19	19	20	8	15	5
South	2	2	1	3	8	13	10	12	9	10	6	1	6	5
Southwest	3	4	3	7	28	35	43	30	17	14	3	1	16	5
West	1	1	1	4	5	7	8	7	9	3	1	2	4	5
Northwest	44	62	59	49	18	8	8	14	26	19	15	26	29	5
Calm	2	0	1	3	6	8	5	8	7	6	5	3	5	5
34 knots or over (mean number of days) (0800)	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mean wind speed (knots)	5	5	5	4	4	4	4	4	4	4	4	5	4	43
VISIBILITY														
Days with visibility less than ½ mile	0	0	0.2	0	0	0	0	0	0	0	0.2	0	0.4	5

PORT BLAIR-ANDAMAN ISLANDS, INDIA—Latitude 11°40' N., longitude 92°43' E., elevation 261 feet

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars)	1012	1012	1011	1009	1007	1006	1006	1007	1008	1009	1010	1011	1009	50
TEMPERATURE														
Average (° F.)	77	77	79	82	81	79	79	79	79	79	78	77	79	60
Average daily maximum (° F.)	88	88	90	92	92	88	87	86	87	87	87	86	92	60
Average daily minimum (° F.)	67	66	68	72	70	71	71	71	71	71	70	68	66	60
Extreme highest each month (° F.)	91	92	96	99	99	96	92	91	92	98	91	91	99	60
Extreme lowest each month (° F.)	62	63	65	67	66	67	68	69	68	64	67	60	60	60
RELATIVE HUMIDITY														
Average percent (0800)	74	74	75	76	81	85	87	87	87	84	79	74	80	50
Average percent (1700)	74	73	72	74	85	87	86	86	86	84	82	78	81	5
CLOUD COVER														
Average amount (tenths) (0800)	4.2	3.6	3.6	4.6	7.0	8.4	8.3	8.3	7.7	6.5	5.8	5.2	6.1	50
Less than 3/10 average amount (mean number of days) (0800)	10	14	14	11	3	1	0	0	2	4	7	9	75	5
More than 7/10 average amount (mean number of days) (0800)	11	10	10	14	23	27	28	29	23	21	17	16	229	5
PRECIPITATION														
Average amount (inches)	1.79	1.11	1.12	2.36	15.13	21.75	15.43	16.29	17.40	12.51	10.52	7.92	123.33	60
Greatest amount (inches)	22.98	8.59	8.12	13.35	40.56	41.50	31.21	36.41	33.20	22.85	25.54	24.31	150.26	79
Least amount (inches)	0.00	0.00	0.00	0.00	0.78	9.39	5.27	2.87	4.97	3.24	0.95	0.00	83.92	79
Maximum in 24 hours (inches)	8.20	5.16	2.64	8.44	10.43	10.17	5.85	6.82	7.01	6.03	5.80	11.64	11.64	79
0.01 inch or more (mean number of days)	4	4	4	8	21	29	26	27	25	21	17	15	201	7
WIND														
Direction (percentage of 0800 obs.):														
North	23	21	13	8	3	0	0	1	0	2	7	18	8	22
Northeast	38	25	17	12	2	0	0	0	0	5	20	38	13	22
East	13	6	6	5	1	0	0	0	0	7	15	16	6	22
Southeast	6	5	3	6	5	1	2	1	1	12	17	11	6	22
South	1	0	1	3	9	12	8	4	8	9	7	3	5	22
Southwest	0	0	1	2	18	36	40	39	29	11	4	1	15	22
West	2	5	7	11	26	35	37	39	35	17	6	1	19	22
Northwest	12	18	24	24	20	7	5	7	12	15	8	7	13	22
Calm	6	19	28	28	17	9	9	9	14	21	16	7	15	22
Direction (percentage of 1400 obs.):														
North	19	12	6	3	1	0	0	0	0	2	7	9	5	5
Northeast	55	36	16	5	0	0	0	0	1	6	20	47	15	5
East	18	28	37	28	5	0	0	1	0	20	35	33	17	5
Southeast	1	3	11	10	3	0	0	2	2	8	11	1	4	5
South	0	0	3	6	8	3	4	3	3	3	4	1	3	5
Southwest	0	0	0	8	32	54	64	55	38	13	6	1	24	5
West	0	1	2	19	29	33	25	26	42	26	4	1	17	5
Northwest	1	4	4	10	11	2	1	3	6	9	4	1	5	5
Calm	5	16	20	12	10	6	6	9	7	15	9	6	10	5
34 knots or over (mean number of days)	0	0	0	0	0	1	3	1	0.2	0.4	0.2	0	5.8	5
Mean wind speed (m.p.h.)	8.5	7.1	5.9	5.9	8.6	13.7	15.9	13.4	10.4	7.6	8.4	9.1	9.5	60
VISIBILITY														
Days with visibility less than ½ mile	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	7

PURI, INDIA—Latitude 19°48' N., longitude 85°49' E., elevation 20 feet

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars)	1016	1014	1011	1007	1004	1000	1000	1001	1005	1010	1013	1016	1008	50
TEMPERATURE														
Average (° F.)	72	76	81	83	85	85	84	84	84	83	77	72	81	50
Average daily maximum (° F.)	80	83	86	88	90	89	87	88	89	89	85	81	86	50
Average daily minimum (° F.)	64	69	70	79	81	81	80	80	80	77	69	63	75	50
Extreme highest each month (° F.)	89	93	102	102	103	100	98	98	97	97	93	91	103	50
Extreme lowest each month (° F.)	51	54	60	66	62	67	73	71	63	62	57	51	51	50
RELATIVE HUMIDITY														
Average percent (0800)	80	79	80	83	84	84	85	85	83	80	75	75	81	50
Average percent (1700)	67	71	79	82	84	83	83	82	78	72	60	59	75	5
CLOUD COVER														
Average amount (tenths) (0800)	2.3	2.5	2.9	4.0	4.8	6.6	7.2	7.0	5.9	3.7	3.0	1.8	4.3	50
Less than 3/10 average amount (mean number of days) (0800)	23	19	17	15	12	5	1	2	6	16	19	24	159	5
More than 7/10 average amount (mean number of days) (0800)	4	5	7	6	12	20	24	21	16	9	6	3	133	5
PRECIPITATION														
Average amount (inches)	0.41	0.92	0.50	0.58	2.86	7.46	10.32	10.92	9.05	7.21	3.19	0.24	53.66	50
Greatest amount (inches)	6.51	4.71	4.55	4.25	20.93	22.48	20.87	24.39	20.09	23.85	22.74	4.22	78.11	50
Least amount (inches)	0	0	0	0	0	0.92	1.32	1.83	1.89	0	0	0	30.77	50
Maximum in 24 hours (inches)	2.09	4.25	2.28	3.23	6.76	7.89	11.87	7.39	8.30	12.45	9.56	3.50	12.45	50
0.01 inch or more (mean number of days)	2	2	3	3	5	12	18	15	14	11	2	0.7	87.7	10
WIND														
Direction (percentage of 0800 obs.):														
North	55	32	11	3	1	6	8	8	16	40	66	70	26	20
Northeast	14	15	5	1	1	2	4	3	6	10	16	16	8	20
East	0	1	1	1	1	1	1	0	2	2	1	0	1	20
Southeast	0	0	0	1	1	1	0	0	3	2	0	0	1	20
South	1	3	7	14	19	12	5	7	10	3	1	0	7	20
Southwest	6	19	51	69	64	51	52	43	24	8	1	1	32	20
West	3	7	7	6	4	11	13	14	9	5	0	0	6	20
Northwest	11	9	5	1	1	3	5	7	8	11	10	10	7	20
Calm	10	14	13	4	8	13	12	17	22	19	5	3	12	20
Direction (percentage of 1400 obs.):														
North	1	1	1	0	3	1	2	3	3	17	23	14	6	5
Northeast	3	1	1	0	1	1	0	1	2	11	21	8	4	5
East	15	8	0	0	2	0	3	1	3	10	11	21	6	5
Southeast	29	23	11	5	7	3	3	5	9	19	15	24	13	5
South	40	41	50	52	44	39	35	38	36	28	22	24	37	5
Southwest	12	23	34	41	39	41	42	36	31	10	5	6	27	5
West	0	1	1	2	3	10	10	9	1	0	0	0	4	5
Northwest	0	1	1	0	0	2	2	2	4	1	1	0	1	5
Calm	0	1	0	0	1	3	3	4	3	3	2	3	2	5
34 knots or over (mean number of days) (0800)	0	0	0	0	0	1	0	0	0	1	0	0	2	5
Mean wind speed (m.p.h.)	6.2	8.5	10.6	12.5	13.3	12.1	11.3	9.9	8.1	6.4	5.7	5.8	9.2	50
VISIBILITY														
Days with visibility less than ½ mile	1	0.9	0.9	0.1	0	0	0	0	0	0.1	0	0.5	3.5	10

RANGOON, BURMA—Latitude 16°46' N., longitude 96°11' E., elevation 18 feet

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars)	1011	1009	1008	1006	1005	1003	1003	1004	1006	1008	1010	1011	1007	50
TEMPERATURE														
Average (° F.)	77	80	84	87	85	81	81	81	81	82	81	78	81	60
Average daily maximum (° F.)	89	92	96	98	92	86	85	85	86	88	88	88	89	60
Average daily minimum (° F.)	66	67	72	76	77	76	76	76	76	76	73	68	73	60
Extreme highest each month (° F.)	100	101	104	106	107	98	93	93	94	95	95	98	107	65
Extreme lowest each month (° F.)	55	56	61	68	69	71	70	68	72	70	61	55	55	65
RELATIVE HUMIDITY														
Average percent (0800)	71	72	74	71	80	87	89	89	87	83	79	75	80	50
Average percent (1700)	51	53	54	64	79	85	88	89	86	77	73	61	72	5
CLOUD COVER														
Average amount (tenths) (0800)	3.2	3.2	4.2	4.6	7.3	8.9	9.2	9.2	8.7	6.6	4.7	3.5	6.1	50
Less than 3/10 average amount (mean number of days) (0800)	26	22	20	16	8	1	1	0	1	10	17	23	145	5
More than 7/10 average amount (mean number of days) (0800)	2	4	6	9	18	25	28	29	25	15	8	5	174	5
PRECIPITATION														
Average amount (inches)	0.13	0.22	0.32	1.97	12.12	18.95	22.85	20.82	15.48	7.12	2.66	0.43	103.07	60
Greatest amount (inches)	5.55	3.42	3.74	18.97	27.20	35.43	35.70	31.50	25.88	16.93	16.90	8.28	143.40	83
Least amount (inches)	0	0	0	0	1.10	10.20	7.38	9.50	7.73	1.23	0	0	69.05	83
Maximum in 24 hours (inches)	2.91	1.91	1.56	14.22	9.05	5.96	5.45	5.27	5.17	5.26	5.94	4.02	14.22	60
0.01 inch or more (mean number of days)	0.3	0.3	0.6	1.9	13.9	22.9	25.7	24.7	20.1	10.3	3.4	0.6	124.7	60
WIND														
Direction (percentage of 0800 obs.):														
North	22	7	2	3	2	1	1	3	3	6	13	27	7	24
Northeast	26	6	2	3	5	2	1	1	6	20	42	45	13	24
East	7	4	0	2	6	3	2	2	7	16	20	13	7	24
Southeast	6	5	2	2	8	9	5	4	10	12	10	4	6	24
South	3	9	12	12	21	32	27	20	18	15	4	1	15	24
Southwest	7	20	38	46	33	34	41	38	28	10	3	2	25	24
West	9	26	26	24	16	13	14	19	15	7	1	2	14	24
Northwest	8	10	4	4	3	3	5	4	4	5	2	3	5	24
Calm	11	15	15	5	5	4	6	10	10	9	4	3	8	24
Direction (percentage of 1700 obs.):														
North	14	4	0	2	2	1	1	2	2	5	8	22	5	5
Northeast	6	0	0	2	2	1	1	0	1	6	7	16	3	5
East	2	1	0	1	0	0	0	0	1	5	6	7	2	5
Southeast	12	20	24	22	14	10	8	6	11	14	13	6	13	5
South	18	28	42	44	38	38	35	32	33	27	23	14	32	5
Southwest	10	18	22	24	25	31	36	39	25	14	8	6	21	5
West	12	14	8	3	6	9	10	12	8	6	2	3	8	5
Northwest	14	8	3	1	5	3	3	4	3	3	2	7	5	5
Calm	12	7	1	1	8	7	6	5	16	20	31	19	11	5
34 knots or over (mean number of days)	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mean wind speed (m.p.h.)	2.7	2.9	3.6	4.2	3.6	3.7	3.8	3.3	2.7	2.3	2.6	3.0	3.2	60
VISIBILITY														
Days with visibility less than ¼ mile	0.2	2	2	0.2	0	0	0	0	0	0	0.2	0.4	5.0	5

SAGAR ISLAND, INDIA—Latitude 21°39' N., longitude 88°03' E., elevation 10 feet

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars)	1015	1013	1009	1005	1000	997	998	1000	1004	1009	1014	1015	1007	20
TEMPERATURE														
Average (° F.)	65	69	78	87	93	88	79	78	78	77	71	66	77	30
Average daily maximum (° F.)	77	81	87	90	91	90	87	87	88	87	82	77	85	60
Average daily minimum (° F.)	59	65	74	79	81	81	80	80	80	76	67	59	73	60
Extreme highest each month (° F.)	87	92	101	103	101	104	97	98	97	93	90	85	104	60
Extreme lowest each month (° F.)	46	46	54	64	64	67	73	71	73	63	54	49	46	60
RELATIVE HUMIDITY														
Average percent (0800)	83	81	76	77	78	81	85	87	84	81	78	80	81	50
Average percent (1700)	63	67	74	76	78	80	82	83	81	78	68	64	75	5
CLOUD COVER														
Average amount (tenths) (0800)	2.7	3.3	3.7	5.5	6.3	8.1	8.7	8.5	7.6	5.1	3.3	2.4	5.4	50
Less than 3/10 average amount (mean number of days) (0800)	20	13	10	6	2	0	0	0	1	9	14	19	94	5
More than 7/10 average amount (mean number of days) (0800)	5	8	9	13	19	24	27	26	22	12	8	4	177	5
PRECIPITATION														
Average amount (inches)	1.18	0.51	0.39	0.16	0.32	5.71	18.23	16.46	8.98	1.73	0.95	0.28	54.88	30
Greatest amount (inches)	2.33	7.78	7.67	5.43	25.37	28.46	37.96	29.95	29.87	23.76	10.93	2.32	108.38	60
Least amount (inches)	0	0	0	0	0.38	1.14	4.51	5.97	3.16	0.02	0	0	45.08	60
Maximum in 24 hours (inches)	1.90	3.03	4.95	3.10	7.98	14.14	13.94	8.43	6.87	12.66	4.18	1.25	14.14	60
0.01 inch or more (mean number of days)	2	3	3	4	8	16	23	21	18	9	1.5	0.2	108.7	10
WIND														
Direction (percentage of 0800 obs.):														
North	35	22	8	2	2	2	3	3	4	19	43	53	16	24
Northeast	26	19	4	1	3	6	7	6	10	20	31	24	13	24
East	4	4	1	1	3	5	7	7	10	10	3	2	5	24
Southeast	2	2	2	5	10	8	8	12	11	5	1	1	6	24
South	7	14	28	49	50	38	24	23	26	9	2	1	22	24
Southwest	9	20	39	37	28	32	39	35	24	14	4	4	23	24
West	6	9	10	3	3	5	9	10	11	4	4	4	7	24
Northwest	10	10	7	2	2	3	3	4	10	13	13	11	7	24
Calm	1	1	0	0	0	1	1	1	1	1	0	0	1	24
Direction (percentage of 1700 obs.):														
North	26	13	3	0	2	2	1	2	5	14	32	47	12	5
Northeast	11	5	2	0	3	1	0	1	3	15	28	17	8	5
East	1	1	1	0	3	3	5	3	7	10	3	1	3	5
Southeast	7	8	8	5	18	19	14	16	11	12	1	2	10	5
South	37	52	66	72	59	47	46	45	43	21	13	17	43	5
Southwest	12	15	18	22	13	22	27	26	21	14	10	8	17	5
West	1	1	0	1	1	5	6	6	4	3	3	2	3	5
Northwest	2	4	1	0	1	2	1	1	3	3	6	5	2	5
Calm	2	2	1	0	1	0	0	0	3	8	4	1	2	5
34 knots or over (mean number of days) (0800)	0	0	0	0	0	0	1	0	0	0	0	0	1	5
Mean wind speed (m.p.h.)	5.5	6.7	9.6	13.7	13.5	13.2	12.1	10.6	8.4	5.8	5.5	5.5	9.2	60
VISIBILITY														
Days with visibility less than ½ mile (0800)	4	2	0.1	0.1	0	1.0	3	2	0.6	0.1	0.4	1.1	14.4	8

TAVOY, BURMA—Latitude 14°05' N., longitude 98°12' E., elevation 19 feet.

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars) (0800).....	1014	1014	1012	1011	1009	1008	1008	1009	1010	1012	1013	1014	1011	50
TEMPERATURE														
Average (° F.).....	78	80	82	84	82	80	79	79	79	81	79	77	80	50
Average daily maximum (° F.).....	90	92	93	94	89	84	83	83	84	88	88	88	88	50
Average daily minimum (° F.).....	65	68	71	75	75	75	74	74	74	74	70	66	72	50
Extreme highest each month (° F.).....	98	99	99	101	99	95	97	93	92	99	100	97	101	52
Extreme lowest each month (° F.).....	50	55	57	65	69	69	69	68	69	62	55	48	48	52
RELATIVE HUMIDITY														
Average percent (0800).....	75	74	72	72	81	89	91	91	89	82	75	73	80	50
Average percent (1700).....	67	69	68	72	83	90	92	91	89	83	78	68	79	5
CLOUD COVER														
Average amount (tenths).....	3.4	3.3	3.7	5.6	8.2	9.1	9.4	9.2	8.8	7.2	5.7	3.7	6.4	7
Less than 3/10 average amount (mean number of days) (0800).....	20	17	19	11	1	0	0	0	0	7	11	19	105	5
More than 7/10 average amount (mean number of days) (0800).....	5	6	6	12	25	29	30	30	27	17	12	7	206	5
PRECIPITATION														
Average amount (inches).....	0.23	0.49	1.69	3.14	22.11	45.29	49.99	46.69	32.21	10.33	2.36	0.32	214.85	50
Greatest amount (inches).....	1.69	2.70	5.28	9.79	48.53	76.86	77.83	83.77	67.06	29.31	8.24	2.40	286.26	81
Least amount (inches).....	0	0	0	0	8.58	18.48	13.98	19.79	9.42	2.72	0	0	173.46	81
Maximum in 24 hours (inches).....	1.42	2.00	3.41	3.80	11.75	12.11	9.72	10.68	13.10	7.76	3.15	1.57	13.10	50
0.01 inch or more (mean number of days).....	0.8	3	4	10	24	30	30	29	25	17	8	2	182.8	5
WIND														
Direction (percentage of 0800 obs.):														
North.....	3	4	4	4	2	1	0	1	1	3	5	4	3	20
Northeast.....	4	5	5	5	2	1	1	0	1	3	6	6	3	20
East.....	1	1	0	1	1	1	1	0	0	2	3	1	1	20
Southeast.....	0	1	0	1	5	6	5	4	4	2	2	1	3	20
South.....	0	0	0	0	6	9	8	7	5	3	1	0	3	20
Southwest.....	0	0	0	0	3	7	9	10	4	0	1	0	3	20
West.....	0	0	0	0	1	1	1	2	1	0	0	0	1	20
Northwest.....	0	1	2	1	1	1	1	1	1	1	1	1	1	20
Calm.....	92	88	87	88	80	73	74	76	83	85	81	87	82	20
Direction (percentage of 1400 obs.):														
North.....	6	13	11	6	3	0	1	1	1	4	3	8	5	5
Northeast.....	6	4	2	3	3	0	1	1	3	4	9	9	4	5
East.....	5	1	0	2	1	1	0	1	1	3	3	3	2	5
Southeast.....	2	0	2	2	5	9	6	5	3	1	0	0	3	5
South.....	0	0	5	3	19	26	17	15	9	2	1	0	8	5
Southwest.....	0	1	2	3	10	14	14	14	6	1	2	0	6	5
West.....	1	1	4	2	3	2	1	2	2	0	1	0	2	5
Northwest.....	4	10	14	16	3	1	1	1	3	1	0	6	5	5
Calm.....	76	70	60	63	53	47	59	60	72	84	80	74	65	5
34 knots or over (mean number of days) (0800).....	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mean wind speed (m.p.h.).....	1.3	1.4	1.4	1.5	1.7	1.9	1.8	1.7	1.4	1.3	1.3	1.4	1.5	50
VISIBILITY														
Days with visibility less than ½ mile (0800).....	0	0.4	0.1	0	0	0	0	0	0	0	0	0	0.5	8

VISHAKHAPATNAM, INDIA—Latitude 17°42' N., longitude 83°18' E., elevation 126 feet

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars)	1015	1013	1011	1008	1004	1000	1001	1002	1004	1009	1013	1015	1008	20
TEMPERATURE														
Average (° F.)	74	78	83	87	89	88	85	85	84	83	78	75	82	30
Average daily maximum (° F.)	81	84	87	90	92	92	89	89	88	88	84	81	87	45
Average daily minimum (° F.)	67	71	75	78	81	81	79	79	78	77	72	68	76	45
Extreme highest each month (° F.)	90	98	97	99	110	111	101	99	100	97	91	88	111	45
Extreme lowest each month (° F.)	58	61	65	65	68	70	71	70	72	69	59	59	58	45
RELATIVE HUMIDITY														
Average percent (0800)	74	76	74	72	72	75	79	80	80	76	66	65	74	40
Average percent (1700)	69	73	74	76	76	73	72	74	76	74	65	63	72	5
CLOUD COVER														
Average amount (tenths)	2.7	2.9	2.9	4.3	5.7	7.8	8.3	7.9	7.1	5.1	4.4	3.3	5.2	32
Less than 3/10 average amount (mean number of days) (0800)	20	17	19	14	7	1	1	2	5	11	11	19	127	5
More than 7/10 average amount (mean number of days) (0800)	6	7	6	10	17	26	25	25	20	15	15	9	181	5
PRECIPITATION														
Average amount (inches)	0.28	0.59	0.35	0.51	2.09	3.47	4.92	3.90	6.58	10.28	3.54	0.67	37.17	30
Greatest amount (inches)	6.52	4.80	4.93	4.06	14.50	14.20	10.84	15.49	22.03	30.20	20.91	25.80	79.50	84
Least amount (inches)	0.00	0.00	0.00	0.00	0.00	0.43	0.29	0.68	1.20	0.00	0.00	0.00	17.11	84
Maximum in 24 hours (inches)	5.20	2.54	2.54	2.91	5.69	6.54	3.20	4.19	5.85	10.27	10.65	7.53	10.65	40
0.01 inch or more (mean number of days)	1.2	3	2	2	4	9	13	11	12	11	4	0.4	72.6	10
WIND														
Direction (percentage of 0800 obs.):														
North	13	6	2	1	0	1	0	1	3	9	19	17	6	22
Northeast	25	14	2	2	3	2	1	2	6	29	50	46	15	22
East	5	5	2	2	1	1	1	3	3	3	4	5	3	22
Southeast	2	3	2	1	2	1	1	2	1	2	1	1	1	22
South	1	3	2	4	6	4	2	2	3	1	1	0	0	22
Southwest	10	22	52	67	65	65	66	56	39	17	3	1	40	22
West	26	28	19	15	22	22	25	23	20	7	9	9	20	22
Northwest	9	7	4	2	2	2	4	8	8	7	7	13	6	22
Calm	10	13	6	2	4	3	5	8	13	9	9	6	7	22
Direction (percentage of 1400 obs.):														
North	0	1	0	0	1	0	0	1	1	2	1	1	1	5
Northeast	17	2	0	0	1	1	1	1	6	25	38	34	10	5
East	34	17	1	1	2	1	0	0	3	26	46	55	15	5
Southeast	23	28	8	7	7	3	1	1	9	10	8	6	9	5

TABLE 1.—Percent frequencies of sea and swell for selected port entrances

Port or harbor	Month	Principal directions	Sea-wave height (feet)						Swell-wave height (feet)			
			<3	3-5	5-8	8-12	>12	Calms	1-6	6-12	>12	Calms
Madras	Jan.	N	4	1	1			11	1	1		19
		NE	31	20	6	1			31	16		
		E	11	6					24	2		
		SE	5						6			
	Apr.	S	3									
		N						15				44
		NE	3	1								
		E	9	3					6	1		
	July	SE	25	12	2				22	4		
		S	22	6	2	*			20	2	1	
		N		*				62	1			59
		NE	1						1			
Oct.	E	1						2	2			
	SE	6	2	*				2				
	S	16	10	2	1			25	10			
	N	2					52	*			57	
Vishakhapatnam	Jan.	NE	10	4					2	1		
		E	8	2					6			
		SE	8	2					10	1		
		S	7	4	1				18	5		
	Apr.	NE	7	2	2			52	16	2		62
		E	4						8			
		SE	13						8			
		S	17						4			
	July	SW	3									
		N	1	2				38				19
		NE										
		E	4		2				8	7		
Oct.	SE	11	19	13				54	2			
	S	7	6	3	3			7	3			
	NE						50				34	
	E							11				
Jan.	SE	4										
	S	6	14	9	11	6		13	22			
	SW							20				
	N	15	9				54	9			28	
Apr.	NE		6					13	4			
	E	6	3					9				
	SE	6				1		13	22			
	S							2				
July	SW											
	N											
	NE											
	E											

*Less than 0.5 percent.

< Less than

> Greater than

TABLE 1.—Percent frequencies of sea and swell for selected port entrances—Continued

Port or harbor	Month	Principal directions	Sea-wave height (feet)						Swell-wave height (feet)			
			<3	3-5	5-8	8-12	>12	Calms	1-6	6-12	>12	Calms
Hooghly River	Jan.	{E	3	*				81	3			88
		{SE	3						1	1		
		{S	4	1	1	*			4			
		{SW	6						3			
	Apr.	{W	1		*							
		{E	*		*			7				20
		{SE	2	2	*				4	1		
		{S	14	13	8	1			18	6		
	July	{SW	18	18	10	2	1		30	17	3	
		{W	2	2					1		*	
		{E	1	*				10				6
		{SE	3	1	1	1			1			
Karnaphuli River (Chittagong)	Jan.	{S	7	10	3	2	2		13	16	5	
		{SW	14	15	13	10	2		8	34	15	
		{W	2	1	2	*			1	1		
		{E	3	1	1	*		50	1	1	*	33
	Oct.	{SE	5	2	1				3	2	2	
		{S	13	4	2	1	1		26	13	1	
		{SW	9	3	2				10	6		
		{W	2						1	1		
	Apr.	{SE						87	1			93
		{S		3					3			
		{SW		4	2				2			
		{NW	4						1			
	July	{SE	*					15	1			17
		{S	13	2	3				15			
		{SW	34	9	6	2			37	5		
		{W	12						20	2	*	
	Oct.	{NW	4	*					3			
		{SE	1	*				9	1			7
		{S	7	10	3	6			3	24	3	
		{SW	10	13	19	16			9	38	15	
	Jan.	{W		3	3							
		{NW			*							
		{SE	1	*				59	2	1		49
		{S	15						14	5		
	Apr.	{SW	22						24			
		{W	2									
	Oct.	{NW	1	*								

*Less than 0.5 percent.

< Less than

> Greater than

TABLE 1.—Percent frequencies of sea and swell for selected port entrances—Continued

Port or harbor	Month	Principal directions	Sea-wave height (feet)						Swell-wave height (feet)			
			<3	3-5	5-8	8-12	>12	Calms	1-6	6-12	>12	Calms
Kaladan River (Akyab)-----	Jan.	SE	---	---	---	---	---	84	1	---	---	91
		S	---	---	---	---	---	---	---	---	---	---
		SW	3	3	---	---	---	---	3	---	---	---
		W	7	3	---	---	---	---	3	---	---	---
	Apr.	NW	---	---	---	---	---	---	2	---	---	---
		SE	---	*	---	---	---	13	1	---	---	13
		S	13	2	3	---	---	---	15	---	---	---
		SW	34	9	6	2	---	---	37	5	---	---
	July	W	13	---	---	---	---	---	20	2	2	---
		NW	5	1	---	---	---	---	5	---	---	---
		SE	1	---	1	---	---	7	1	---	---	7
		S	7	10	3	6	---	---	3	24	3	---
Rangoon River-----	Jan.	SW	10	13	19	16	---	---	9	38	15	---
		W	---	3	3	---	---	---	---	---	---	---
		NW	---	---	1	---	---	---	---	---	---	---
	Oct.	SE	1	1	---	---	---	55	3	1	---	48
		S	15	---	---	---	---	---	14	5	---	---
		SW	22	---	---	---	---	---	24	5	---	---
		W	2	---	---	---	---	---	---	---	---	---
	Jan.	NW	2	2	---	---	---	---	---	---	---	---
		E	2	*	---	---	---	98	---	---	---	93
		SE	---	---	---	---	---	---	1	---	---	---
		S	---	---	---	---	---	---	---	---	---	---
	Apr.	SW	---	---	---	---	---	---	5	1	---	---
		W	---	---	---	---	---	---	---	---	---	---
		E	1	---	---	---	---	67	---	---	---	55
		SE	7	---	---	---	---	---	7	7	---	---
	July	S	6	4	---	---	---	---	7	---	7	---
		SW	6	2	2	---	---	---	10	---	---	---
		W	5	---	---	---	---	---	5	2	---	---
		E	---	---	---	---	---	10	---	---	---	17
	Oct.	SE	---	---	---	---	---	---	---	---	---	---
		S	11	---	---	---	---	---	3	3	---	---
		SW	9	33	28	2	2	---	28	47	---	---
		W	2	2	1	---	---	---	2	2	---	---
	Oct.	E	4	*	---	---	---	58	---	*	---	40
		SE	7	2	---	---	---	---	2	---	---	---
		S	5	---	---	---	---	---	21	---	---	---
		SW	16	---	2	---	---	---	27	6	---	---
		W	6	---	---	---	---	---	4	---	---	---

*Less than 0.5 percent.
 < Less than
 > Greater than

TABLE 1.—Percent frequencies of sea and swell for selected port entrances—Continued

Port or harbor	Month	Principal directions	Sea-wave height (feet)						Swell-wave height (feet)			
			<3	3-5	5-8	8-12	>12	Calms	1-6	6-12	>12	Calms
Mergui (North Approach)	Jan.	S	1					48				94
		SW	7	1					2			
		W	15									
		NW	7	1						2		
	Apr.	N	19	1						2		
		S	3	*	*			29	1	*		59
		SW	18	11	1				13	7	2	
		W	22	5					12		2	
	July	NW	7	1	1				5		2	
		N	2									
		S	4	*				30	1	*	*	24
		SW	26	17	12	2	2		36	31	3	
	Oct.	W	5	1	1				2	3		
		NW										
		N										
		S	4	1	*	*		71	5	*	*	81
Port Blair	Jan.	SW	3	1					9			
		W	7						2	3		
		NW	7	1								
		N	5									
	Apr.	NW						1				37
		N	12						4			
		NE	24	15	9	3			27	8	4	
		E	18	9	9				12	4		
	July	SE							4			
		NW	5					60				
		N	9									
		NE	13									
	Oct.	E	10									
		SE	3									
		NW						81				
		N	2									
	Oct.	NE	2									
		E		7	4							
		SE			2		2					
		NW	*					43				
	Oct.	N	10									
		NE	13									
		E	23	3								
		SE	8									

*Less than 0.5 percent.

< Less than

> Greater than

OCEAN AREA A

(For location of area see figure 1)

Months	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Pressure, sea level (millibars):												
1/4 of obs. <-----	1013	1011	1010	1007	1002	1002	1003	1003	1004	1007	1007	1011
Median-----	1015	1013	1013	1009	1006	1004	1005	1005	1007	1011	1011	1013
1/4 of obs. >-----	1016	1016	1015	1012	1009	1006	1007	1008	1009	1012	1013	1016
Temperature, air (° F):												
1/4 of obs. <-----	75	75	78	81	83	82	81	81	80	80	78	76
Median-----	76	77	80	83	85	84	83	82	82	82	81	77
1/4 of obs. >-----	79	80	81	85	86	85	84	83	84	84	83	81
Temperature, mean sea surface ° F	79	79	81	84	85	84	83	82	83	83	82	80
Precipitation: Percent of observations with precipitation	0	0	0	0	0	6	13	6	15	18	9	16
Cloudiness: Total cloud amount in eighths of sky cover:												
1/4 of obs. <-----	0.6	0	0.3	0.6	1.5	3.1	3.0	2.6	2.7	1.7	2.4	2.0
Median-----	2.0	1.2	1.0	1.6	3.0	6.0	5.1	4.7	4.7	3.5	3.7	3.7
1/4 of obs. >-----	4.0	2.6	2.4	2.6	5.0	7.4	7.4	7.0	7.0	6.5	6.0	6.3
Visibility: Percent of observations:												
<2 miles-----	1	0	0	0	0	0	0	2	4	0	0	1
<5 miles-----	4	0	0	0	2	3	4	2	5	6	2	3

Median—Half the observations fall below and half above this point.

>—Equal to or more.

<—Equal to or less.

<—Less than.

OCEAN AREA B

(For location of area see figure 1)

Months	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Pressure, sea level (millibars):												
1/4 of obs. <-----	1008	1007	1007	1006	1006	1005	1006	1006	1007	1007	1007	1007
Median-----	1009	1009	1009	1008	1007	1007	1008	1008	1008	1009	1009	1009
1/4 of obs. >-----	1011	1011	1011	1010	1009	1009	1009	1009	1010	1010	1011	1011
Temperature, air (° F):												
1/4 of obs. <-----	79	80	80	81	81	81	81	80	80	79	79	79
Median-----	81	81	82	83	83	82	82	81	81	81	81	81
1/4 of obs. >-----	82	85	84	85	84	84	83	83	83	82	82	82
Temperature, mean sea surface ° F	81	82	83	84	83	83	82	82	82	82	82	82
Precipitation: Percent of observations with precipitation	14	8	10	13	15	13	9	12	13	18	17	16
Cloudiness: Total cloud amount in eighths of sky cover:												
1/4 of obs. <-----	2.2	2.0	2.1	2.3	2.6	3.1	3.0	3.0	3.0	3.0	2.7	2.3
Median-----	3.6	3.3	3.6	4.0	4.6	5.0	5.0	5.0	5.0	4.7	5.0	4.1
1/4 of obs. >-----	6.0	5.3	5.7	6.0	6.6	6.7	6.7	7.0	6.7	6.7	6.7	6.5
Visibility: Percent of observations:												
<2 miles-----	1	7	4	4	13	1	1	2	1	2	5	2
<5 miles-----	2	2	2	2	2	1	1	2	3	0	0	6

Median—Half the observations fall below and half above this point.

>—Equal to or more.

<—Equal to or less.

<—Less than.

OCEAN AREA C
(For location of area see figure 1)

Months	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Pressure, sea level (millibars):												
1/4 of obs. <-----	1010	1010	1010	1009	1009	1009	1010	1010	1011	1009	1011	1011
Median -----	1012	1012	1012	1011	1011	1011	1012	1012	1013	1012	1013	1013
1/4 of obs. >-----	1014	1014	1014	1013	1013	1013	1014	1014	1014	1014	1014	1014
Temperature, air (° F):												
1/4 of obs. <-----	80	80	81	82	81	81	80	79	79	80	79	79
Median -----	82	82	83	83	83	82	82	81	81	81	81	81
1/4 of obs. >-----	83	83	84	85	84	83	83	82	82	83	83	82
Temperature, mean sea surface ° F	82	83	83	84	83	83	82	82	81	82	82	82
Precipitation: Percent of observations with precipitation	13	0	0	6	12	11	18	16	13	0	4	16
Cloudiness: Total cloud amount in eighths of sky cover:												
1/4 of obs. <-----	2.4	1.7	2.0	2.3	2.3	2.4	2.6	2.7	3.0	2.7	2.4	2.4
Median -----	4.2	3.2	3.2	3.3	3.4	3.6	4.3	5.0	4.5	4.6	3.7	4.3
1/4 of obs. >-----	6.4	5.4	5.2	5.4	5.4	5.5	6.4	6.7	6.7	6.3	5.4	6.2
Visibility: Percent of observations:												
<2 miles -----	0	0	0	3	0	2	2	0	11	0	0	0
<5 miles -----	0	2	0	2	2	2	2	2	2	2	3	3

Median—Half the observations fall below and half above this point.

>—Equal to or more.

<—Equal to or less.

<—Less than.

GLOSSARY

INDIA	
HINDUSTANI	ENGLISH
Ar	Stream
Bandar	Anchorage
Bet	Island
Betta.....	Mountain
Bil.....	Lake, Swamp
Bum.....	Mountain, Hill
Cheruvu.....	Lake
Chu.....	Stream
Dhar	Mountain Range
Dongar	Hill
Durga.....	Hill Fort
Durgam	Hill Fort
Eri	Lake
Eru.....	Stream
Gad.....	Stream
Ghat.....	Pass
Giri	Mountain
Gudda.....	Mountain, hill
Gutta.....	Mountain, hill
Jhil.....	Lake
Jhor.....	Stream
Kas.....	Stream
Kayal	Inlet
Kere	Lake, Tank
Khal.....	Stream, Creek
Kot	Fort
Mala	Mountain
Malai	Mountain
Mudi	Mountain
Nadi.....	Stream
Nala.....	Stream
Nam.....	Stream
Pahar.....	Mountain
Parbat.....	Mountain
Parvat.....	Mountain
Po	Mountain
Pulo.....	Island

HINDUSTANI	ENGLISH
Rann.....	Marsh, Lake
Sagar	Lake
Sagara.....	Lake
Suti.....	Stream
Tal	Lake, swamp
Tala.....	Well
Talab	Lake
Talao	Lake
Tapu	Island
Tivu.....	Island
Tlang	Mountain Peak, Range
Va	Stream
Vagu	Stream

PAKISTAN	
BENGALI	ENGLISH
As	Lake, Swamp
Char	Island, Tidal Flat
Gang	Stream, Deltaic Watercourse
Khal.....	Stream, Deltaic Watercourse, Creek
Nadi.....	Stream
Tila	Hill
URDU	ENGLISH
Char	Island, Tidal Flat
Dhar	Mountains, Range, Ridge, Spur
Kot	Fort
Nala.....	Stream, Abandoned Watercourse
Pahar	Mountains, Ridge, Hill (s)
Rakh	Forest
Reg	Dune (s)
Thal.....	Dunes
Tibba	Hill

BURMESE	BURMA	ENGLISH
Bam.....	Mountain Peak	
Bum.....	Hill, Mountain Peak, Range	
Claung.....	Stream	
Daung.....	Mountain Peak, Mountain Range	
Glohng.....	Stream	
In	Lake, Marsh	
Khal	Stream	
Khao	Mountain	
Klang	Mountain Peak	
Klohng	Stream	
Kyaw.....	Mountain Range	
Kyun.....	Island	
Laung.....	Stream	
Loi	Mountain Peak	
Me.....	Stream	
Mual	Mountain Peak	
Nam.....	Stream	
Nawng	Lake, Marsh	
Pam.....	Mountain Peak	
Pulo.....	Island	
Pum.....	Mountain Peak	
Taung.....	Mountain, Range, Hill	
Taungdan	Mountain Range	
Taunggyi.....	Mountain Range	
Va	Stream	
Vum.....	Mountain Stream	
Wang.....	Stream	
Yoma	Mountain Range	

THAI	ENGLISH
Ao	Bay, Creek
Arang.....	Coal
Ban.....	Village
Bang	Village, Settlement
Bon.....	Upper
Buket	Hill, Mountain
Buri.....	City

THAI	ENGLISH
Chaung, Chong	Strait
Dam.....	Black
Dan.....	Police or Custom Station
Dawang.....	Forest
Deng	Red
Din niau.....	Clay
Doi, Dowi.....	Mountain
Don.....	Island, High Land
Fai	Light
Hat, Hatsai.....	Sand Bank
Hin.....	Rock, Shoal
Hoi.....	Stream
Htoong.....	Field, Plain
Hue.....	Mountain stream
Ikan	Fish
Jankar.....	Anchor
Kaler	North
Kau.....	Hill
Khao	Mountain, Hill, Peak, White
Khlon.....	Clay, Mud
Klong	Canal, Channel, Stream
Ko, Koh.....	Island
Laem	Bay, Cape
Lang	Lower
Langtao	Bar
Lek.....	Small
Lem.....	Cape
Lom.....	Wind
Luang.....	Green
Lueng.....	Yellow
Luong.....	Great
Maenam, Menam	River
Mai.....	New
Me.....	River
Menang.....	District
Muang	Town
Nam.....	Water, Tide, River, Stream
Nam-Khun.....	Rising Tide
Nam-long.....	Ebbing Tide
Nam-o.....	Beginning of rising tide
Nam-tem-khraye.....	High Water
Naung.....	Lake, Swamp
Nawi	Small, Little
Nei	In

Nei-kwa.....Inner
 Noi.....Little, Small
 Noi-kwa.....Lesser
 Nok.....Out
 Nok-kwa.....Outer
 Nong.....Pond, Pool, Marsh, Swamp, Lake

Pa.....Jungle
 Pak.....Estuary
 Pak Nam.....Bay, Estuary, River Mouth
 Phra.....Pagoda
 Phrayk.....Tributary
 Pom.....Fort
 Pu.....Hill, Mountain

Rai.....Farmland, Square Measure
 Roti.....Bread
 Rong.....Custom House

Sai.....Sand, Gravel
 Sao-thong.....Flagstaff
 Sap.....Great, Large
 Sawuh.....Anchor
 Sayuran.....Vegetables

Ta.....Landing Place
 Thale.....Sea, Lake
 Thai.....Siamese
 Thang.....Road, Path
 Thit-nua.....North
 Thit-tai.....South
 Thit-tuan-ok.....East
 Thit-tuan-tok.....West
 Thi-thort-samor.....Anchorage
 Tida Angin.....Calm
 Toko.....Storehouse
 Tong.....Mountain
 Tong Koong.....River Bend
 Trumbu.....Dangerous Shoal
 Tuwak.....Old

Wat.....Buddhist Temple
 Yai-kwa.....Greater
 Yord.....Top
 Yot.....Peak

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