

al 'Arab abreast the gap between Jazīrat al Waqf al Muhammadiyah and North Island. Overhead telegraph wires cross the mouth of Qarmat Ali Channel with about 70 feet clearance. The western bank of Shaṭṭ al 'Arab, above and below Qarmat Ali Channel, is bordered with brick kilns.

Nahr Kutaybān (Kutaiban Canal) enters the eastern side of Shaṭṭ al 'Arab about 5 miles northward of North Island and is reported to connect with Rūd-e Kārūn (sec. 8A-18). The eastern bank of Shaṭṭ al 'Arab between Al Baṣrah and the canal is bordered with date groves; northward of the canal is an open sandy desert. The western bank of the river in this vicinity has a thin fringe of date palms, beyond which is desert that is sometimes flooded.

About 2 miles northward of the entrance of Nahr Kutaybān, the river turns northwestward, with general depths of 4 fathoms near its northeastern bank. Near the southwestern bank, it is shoal for the first 2 miles, after which it is steep-to on that side; there are greater depths close to a prominent point, above which vessels should keep to the southwestern side of the river.

Nahr 'Umar is on the southwestern bank of the river about 6 miles above the mouth of Nahr Kutaybān. For the next 17 miles, there are no navigational difficulties. Ash Shāfi Creek, with some brick kilns at its entrance, is easily identified where it enters the river about 10 miles above Nahr 'Umar; the western bank northward of the creek is backed by an open plain.

About $1\frac{1}{4}$ miles northward of Ash Shāfi Creek there are depths of less than 2 fathoms, but farther northward they increase to $3\frac{1}{2}$ fathoms. About 3 miles northward of the creek, the river narrows, and the western bank, which is thickly bordered with date palms, is steep-to, with a depth of 4 fathoms close alongside.

About 8 miles above Ash Shāfi Creek, Nahr Ash Shuwayyib (Shuwayyib River) flows in on the eastern side where Shaṭṭ al 'Arab is nar-

rowest. For the first 12 miles, Nahr Ash Shuwayyib has depths of 2 or 3 fathoms and is tortuous, but it is too narrow for any craft larger than a launch.

At Odin Point ($30^{\circ}59' N.$, $47^{\circ}29' E.$), on the western bank close northward of Nahr ash Shuwayyib, Shaṭṭ al 'Arab widens into Qurnah Reach where the bar of the combined Tigris and Euphrates Rivers is formed. The greatest depth is close along the northeastern bank where the channel is very narrow and has a least depth of 7 feet in the fairway. After passing the bar, Shaṭṭ al 'Arab narrows again and the depth increases to about 6 fathoms at the junction of the rivers.

Al Qurnah is a small town located on the point at the confluence of the Tigris and Euphrates Rivers. It is connected with the general telegraph system.

TIGRIS RIVER

8B-33 General remarks.—The Tigris River, about 1,150 miles in length, originates in Turkish territory in two head streams, which unite about 70 miles from the northern frontier of Iraq. The river is narrow and has numerous bends, which makes navigation difficult; it is nowhere wide enough for turning around. In most places when vessels meet, one has to go alongside the bank in order to allow the other to pass. Navigation in the Tigris varies with each season of the year, and, as each year in itself varies, no hard and fast rules can be laid down. A draft of $4\frac{1}{2}$ feet is common during the high-river season, but in the low-river season a draft of $3\frac{1}{4}$ feet should not be exceeded. A vessel drawing 3 feet has proceeded as far as the Great Bund, about 28 miles below Mosul, which is about 200 miles, in a direct line, north-northwestward of Baghdād.

The effect of the tide is felt for about 30 miles above Al Qurnah, but the current always sets downstream.

Rises in the river are caused by rain and melting snow, and such rises usually begin about

the middle of November. The first rise invariably drops again very rapidly, a fall of 5 feet overnight being frequently experienced in the upper reaches. By the end of December, the river is usually full. After the second rain rise, the river continues good during the remainder of the winter months.

The rises caused by snow start in early March, and by the end of that month or early in April the river is in full flood. About the middle of April, snow rises cease, but a subsequent rise may occur because of late rains. In May, the river begins to fall and great care must be taken in navigating it as the channels are not then formed. Navigation becomes easier when the scour of the river has formed the channels.

In June, the depths are greater, but the channels must be carefully adhered to; in July, the channels are liable to be most erratic, but they begin to form in August. In September, the river reaches its lowest level, and during this month vessels have made their worst passages; in October, with the first cold or cooler weather, the sandbanks appear to harden and the channels scour out several inches deeper.

In a good or favorable year, the rain rises come regularly, and, although the level may fall slightly at times, the river is always gaining. In bad years, perhaps because the river falls later, a very high rise, amounting to as much as 12 feet at Baghdād, may occur at any time in December or January; occasionally, however, the river falls almost to its lowest summer level.

During a low river period, occasional groundings are almost impossible to avoid. In general, the greatest depths will be found on the outside of the bends, but this is not invariably the case. As the level of the river falls the channels often change, so that in certain sections local pilots should be employed. They can usually be obtained at Al Baṣrah, 'Amārah, 'Alī al Gharbī, Al Kūt, An Nu'mānīyah (Bghaila), Al 'Azīzīyah, and Baghdād.

The bottom between Al Baṣrah and Baghdād is mud, and no rocks are found. Ships going aground can usually haul off by carrying out anchors. The tendency of the current is to quickly wash away the mud on the upstream side of a vessel and to form a bank on the other, which sometimes rises above the water in 3 or 4 hours.

During April and May, sudden squalls known as *guttras* are experienced, particularly in the vicinity of 'Alī Sharqī; all small craft should make fast while they are blowing.

TIGRIS RIVER

Distances in Nautical Miles

Al Qurnah (entrance).....	0
Al 'Azair (Ezra's Tomb).....	27
Abū Rubāh.....	41
Qal'a Salih.....	53
Abū Sidra.....	68
'Amārah.....	82
Kumait.....	109
'Alī Sharqī.....	123
Fulayḥīyah.....	143
'Alī al Gharbī.....	159
Shaykh Sa'd.....	189
Al Kūt.....	229
An Nu'mānīyah.....	272
Al 'Azīzīyah.....	325
El Kutineh.....	336
Al Baghdādīyah.....	345
Lajj.....	373
Bustān.....	384
Tāq Kisrā (Ctesiphon).....	391
Diāhah River.....	403
Baghdād.....	421

8B-34 Al Qurnah to 'Amārah.—From Al Qurnah to 'Amārah, the general depth is about 13 feet at high river and 6 feet at low river.

Between Al Qurnah and Al 'Azair (Ezra's Tomb), about 27 miles, the river is marked by black posts and white posts to denote the course of the river when the banks are covered during floods. For the first 10 miles, there are depths of 12 to 24 feet; the current is strong.

Some bad bends will be found between Al Qurnah and 'Amārah, and some reaches are extremely difficult during the low river season because of the narrow and tortuous course of the channel, combined with a very strong current. Great care must be taken to avoid

grounding on the spits which extend a considerable distance at the worst bends. The river level is much affected by the regulated flow to a number of canals leading off the river in this section; these carry off the water with a resulting drop of 10 to 18 inches in the level at times.

ʿAmārah to Baghdād.—Navigation presents no difficulty to vessels of suitable draft in that section of the river between ʿAmārah and Al Kūt, a distance of 147 miles. The depth is about 26 feet at high river and 6 feet at low river, and the width, generally, is about 300 yards.

The most difficult part of the river is from Al Kūt to Baghdād. The depths are generally 26 feet at high river and 6 feet at low river, but it has been reported that the depth falls to 2½ feet at low river in places; the width of the river is 300 to 400 yards. Shoals are numerous and constantly changing; local knowledge is essential.

Baghdād, about 460 miles above Al Baṣrah, stands on both sides of the Tigris River and had a population of about 550,000 in 1954. Two bridges cross the river and have a clearance of 18 feet at high river and 41 feet at low river. Supplies here are plentiful. There are 5 wharves, two of which have cranes, for use by barges. Baghdād has steamer and railroad communication with Al Baṣrah. Air service is maintained between England and India and thence to Australia.

Tigris River above Baghdād.—Navigable conditions above Baghdād depend on the time of year. During high river, steamers can proceed as far as Sammara, about 60 airline miles above Baghdād, and a few small local steamers go as far as Al Mawṣil (Mosul), about 200 airline miles above Baghdād. In the low river season it is reported to be impossible for any river steamer to go more than 20 miles above Baghdād.

EUPHRATES RIVER

8B-35 This river, 1,800 miles long, rises in the mountains of Armenia, flows southward

into Syria, and thence to its junction with the Tigris River; it has little or no current. At Al Qurnah, the water of the Tigris is a chocolate color, while that of the Euphrates is very dark but comparatively clear.

EUPHRATES RIVER

Distances in nautical miles

Al Qurnah (entrance)-----	0
Al Madīnah-----	13
Al Kabā'ish-----	27
Hakika-----	49
Sūq ash Shuyūkh-----	55
An Naṣīriyah-----	75
As Samāwah-----	140

From Al Qurnah, the main channel of the Euphrates trends west-southwestward and has depths of 2 fathoms for a short distance, but it soon deepens to 3 or 4 fathoms and for the first 20 miles presents no difficulty to a vessel with a draft of 12 feet.

Beginning about 7 miles above Al Qurnah is a great U-shaped bend, the concave side of which is deep.

After ascending the river for about 20 miles, the depths gradually shoal to 2 fathoms about 2½ miles below the large village of Al Kabā'ish; from here on they decrease to 9 feet before reaching the village, with the greatest depth being close to the northern bank. At the village itself, there are depths of 12 to 18 feet. Vessels with a draft of 4 feet can reach the entrance of Hawr al Hammār, about 6 miles above Al Kabā'ish, but the depth in the lake is only 2 or 3 feet. The bottom is everywhere very soft mud.

RŪD-E KĀRŪN

8B-36 Rud-e Kārūn is navigable by river steamers of 2-foot draft at any time and by those of 5-foot draft when the river is high. It is 400 yards to ½ mile wide, and the channel is very narrow in places, especially at the bends where the greatest depths are generally on the concave side. Sandbanks extend from most of

the points, sometimes as much as halfway across the river. Vessels of 12-foot draft can reach Samana Bend, 14 miles above Khorramshahr (sec. 8B-26), but off the point there, the channel is narrow and the bend very sharp.

The best time for navigating the river is from December to May or June when it is in flood. The river is reported to rise as much as 20 feet or more between January and March because of very heavy upcountry rains, but such rises subside so quickly that advantage cannot be taken of them for navigational purposes.

The river has its least depth from August to the first rain, when for 20 miles below Ahvāz navigation is difficult for a river steamer of 2½-foot draft.

The velocity of the current in a high river is from 4 to 6 knots and in a low river about 2 knots. The tide is felt for about 30 miles up-river.

Khorramshahr to Ahvāz.—Rūd-e Kārūn enters the eastern end of Hafar Channel (sec. 8B-25) near Khorramshahr, its main volume flowing through that channel into Shaṭṭ al 'Arab and the remainder turning southeastward into Khowr-e Bahmanshīr (sec. 8A-18). From Khorramshahr to Ahvāz, a distance of about 110 miles, the course of the river is tortuous between low banks and through almost desert country; the first vegetation is found about 16 miles above Khorramshahr where the banks become fringed with a light scrub.

The village of Fārsiāt is on the eastern bank of the river about 65 miles from the entrance; a drying rock which extends about 30 feet from the opposite bank is situated about 2 miles below the village. With the exception of this rock, the bottom as far as Kūt 'Abdollāh, a village about 37 miles above Fārsiāt, is mostly sand or sand and mud. Off Kūt 'Abdollāh are some rocks with a depth of 3 feet. From this latter village, the river is much encumbered with sandbanks and subject to constantly changing channels for a distance of about 6 miles. At times, this reach has to be improved to insure

sufficient depth for the passage of barges loaded to a draft of 2¼ feet.

The limit of navigation from seaward is about 1 mile below Ahvāz, and between this limit and Ahvāz there is a considerable rise in the river bed and a series of almost impassable rapids; a navigable stream is above the rapids. Near the limit of navigation from seaward is a small natural basin where vessels unload.

Ahvāz (31°29' N., 48°43' E.), a modern town with a population of about 120,000 in 1956, is the center of the grain district; it is reported to be 200 feet above sea level. A range of hills, rising to a height of about 220 feet above the surrounding plain, marks the position of the town; three small peaks, the highest with an elevation of 420 feet, are close together about 2 miles southeastward of the town. Ahvāz is at the junction of the Iranian Railway System from Bandar-e Shāhpūr and Khorramshahr. Below the aforementioned rapids, an oil company has a considerable frontage at their depot on the western bank. This depot has several 15-ton cranes and is served by the railroad. A depot is also located on the eastern bank where barges are discharged.

8B-37 Ahvāz to Shūshtar.—The river above the rapids is 200 to 600 yards wide. It is winding and flows between banks 15 to 20 feet high, which gradually become steeper near Band Qīr; extensive plains are on each side of the river.

Navigation on the upper river is generally more difficult than below the rapids, but with the possible exception of the 2-foot reach above Band Qīr there is no part which cannot be negotiated safely during the hours of darkness provided searchlights are available and use is made of buoys and other navigational aids.

Between Ahvāz and Graneh, about 2 or 3 miles upriver, navigation is simple after clearing the islets immediately above the former. At Graneh, a few rock patches must be avoided, and caution is necessary. From thereon to Kūt-e Seyyed 'Enāyat, a distance of about 7

miles, progress is slower, but most of the shoals are visible and navigation is not difficult.

From Kūt-e Seyyed 'Enāyat to Veys (Wais), a distance of about 15 miles, the banks and shoals become more numerous, and some groundings can be expected. Veys is a large village located at the southern end of a long reach. From Veys to Band Qīr, there is a straight reach in which are two bad places, at Helowdella and Bait Senafie, where the river bed is stone. At Band Qīr, the river divides into three branches, called Rūd-e Gargar, Rūd-e Shaṭṭ, and Rūd-e Dez; the first two reunite above Shūshtar and resume the name of Rūd-e Kārūn.

At Band Qīr, vessels bound for Shūshtar ($31^{\circ}48' N.$, $49^{\circ}00' E.$) enter Rūd-e Gargar, the eastern branch, because Rūd-e Shaṭṭ, the middle branch, is barred by a ridge of rocks about 1 mile above Band Qīr.

At Band Qīr, the river is 50 to 100 yards wide and has general depths of 3 to 6 feet; under the telegraph wires there, a rocky ridge narrows the channel and barely permits the passage of river steamers. A bridge spans the river at Band Qīr; it can be opened to allow passage of river craft.

Jabal Kyat, a triangular-shaped summit of the nearest range of hills, is an excellent mark in this vicinity.

The banks of the river in this area are 30 to 40 feet high, and a few miles above Band Qīr the remains of an old ruined city can be seen embedded in the cliff.

The reach between Band Qīr and Kūt Saiyid Hassan, about $6\frac{1}{2}$ miles upriver, is the most dif-

ficult of all because of the narrow channel and the depth available. The stern-wheelers and barges are often aground or strike the banks every few minutes. Above Kūt Saiyid Hassan, conditions improve, but progress is slow as far as Dar-e Khazīneh, a distance of about 15 miles. Steamers stop abreast the village of Shalailiyeh, which lies about 2 miles from the river bank about 8 miles below Shūshtar. A short distance farther up, navigation ceases.

Shūshtar, a town with a population of about 24,000, is connected with the general telegraph system.

Rūd-e Dez is the westernmost of the three streams branching off from Rūd-e Kārūn at Band Qīr, about 145 miles above Khorramshahr. During spring and winter, this branch can be navigated as far as Kūt 'Abdush Shah; the latter is about 80 miles by river from Dezful, a town with a population of about 32,000 situated 85 miles northward of Ahvāz. The river follows a very tortuous course through flat uncultivated country and vast jungle. Dezful is connected with the general telegraph system.

In 1891, the stern-wheeler *Shushan*, with a length of 80 feet, 30-foot beam, and a draft of $2\frac{1}{2}$ feet, ascended this river as far as Umm 'al Wawieh; the ascent took 51 hours. On the return trip, considerable difficulty was experienced through grounding and striking in the bends; it took 36 hours.

ANCHORAGES

8B-38 Ābādān.—See section 8B-21.

Khorramshahr.—See section 8B-26.

Al Baṣrah.—See section 8B-30.

APPENDIX I

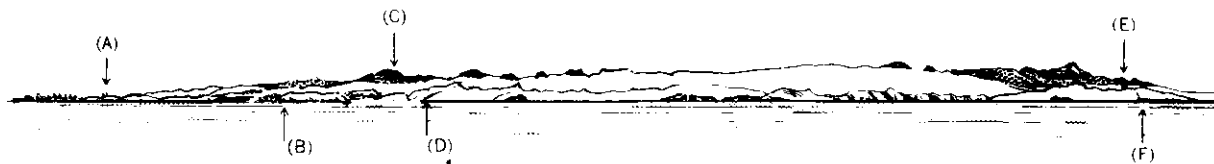
LIST OF VIEWS

View No.

1. Coast between Ra's al Hadd and Khawr al Hajr from Northward
2. Approach to Sūr
3. Wadi Hail al Ghāf (Devil's Gap) to Jabal Abū Dā'ud
4. Coast in the Vicinity of Kalhāt from Eastward
5. Ra's al Khairān
6. Ra's Masqaṭ from Eastward
7. Ra's Masqaṭ from North-northeastward
8. Masqaṭ from East-northeastward
9. Masqaṭ Cove Entrance from Northwestward
10. Jazāir as Suwādi from Northwestward
11. As Suwaiq from Northward
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28. Musandam Peninsula from Southeastward
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36. Coast Northward of Ra's al Kūh
37. Kūhestak
38. Mountains North-northeastward of Kūhestak

View No.

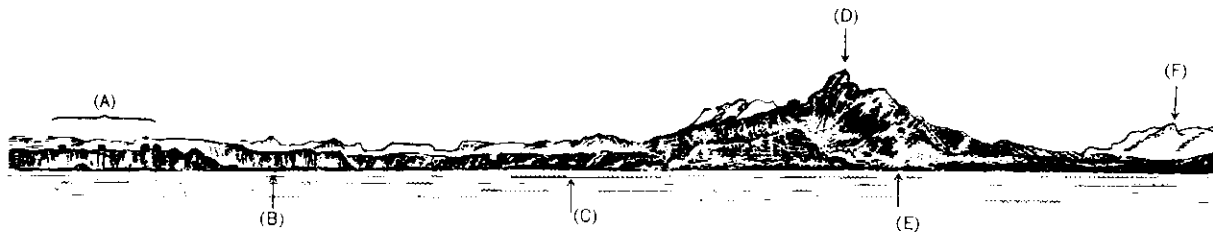
39. Jazīreh-ye Hormoz from Westward
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41. The Hummocks at Southwestern End of Qeshm from Southwestward
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52. Coast Northwestward of Ra's-e Nay Bānd
53. Northwestern Part of Coast of Shībkūh
54. Southeastern Part of Coast of Dashtī
55. Coast of Tangistan
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57. Coast in Vicinity of Ganāveh
58. Kūh-e Bang
59. Šīr Abu Nu'ayr
60. Šīr Banī Yās from Northward
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67. Jāsk and Vicinity, seen from Southwestward
68. Approaches to Bandar 'Abbās from Southeastward
69. Northern Approach to Bahrein Harbor



COAST BETWEEN RA'S AL HADD AND KHAWR AL HAJR FROM NORTHWARD

(A) Tower; (B) Ra's al Haiya; (C) Jabal Sifan bearing 164°; (D) Ra's al Hamma; (E) Cairn on Ra's Bu Buraij; (F) Ra's Bu Buraij.

VIEW 1 (SEC. 2A-7)



APPROACH TO SŪR

(A) Towers at 'Aiqa; (B) Muqrainatain; (C) Fort Sanaisala; (D) Jabal al Khamis bearing 198°, distant 12 miles; (E) Fort; (F) Jabal al Ja'lan.

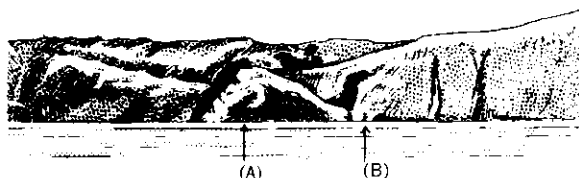
VIEW 2 (SEC. 2A-9)



WADI HAIL AL GHĀF (DEVIL'S GAP) TO JABAL ABŪ DĀ'UD

(A) Wadi Hail al Ghaf bearing 265°, distant 35 miles; (B) Jabal Qurayyat; (C) Jabal Abū Dā'ud.

VIEW 3 (SEC. 2A-2)



COAST IN THE VICINITY OF KALHĀT FROM EASTWARD

(A) Peak; (B) Kalhāt.

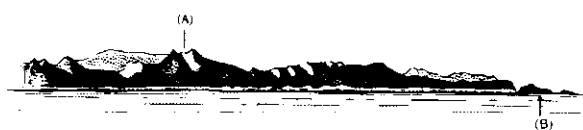
VIEW 4 (SEC. 2A-10)



RA'S AL KHAIRĀN

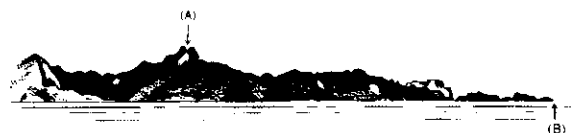
Bearing 137°, distant 7 miles.

VIEW 5 (SEC. 2A-11)



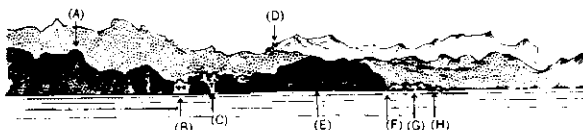
RA'S MASQAṬ FROM EASTWARD
(A) Jabal Barda; (B) Ra's Masqaṭ bearing 275°, distant 22 miles.

VIEW 6 (SEC. 2B-8)



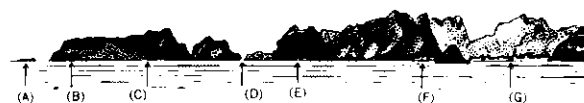
RA'S MASQAṬ FROM NORTH-NORTHEASTWARD
(A) Jabal Barda; (B) Ra's Masqaṭ bearing 200°, distant 20 miles.

VIEW 7 (SEC. 2B-8)



MASQAṬ FROM EAST-NORTHEASTWARD
(A) Tower; (B) Masqaṭ; (C) Jalali Fort bearing 254°; (D) Matrah Peak; (E) Masqaṭ Island; (F) Ra's Masqaṭ; (G) Fisher's Rock; (H) Al Matrah.

VIEW 8 (SEC. 2B-8)



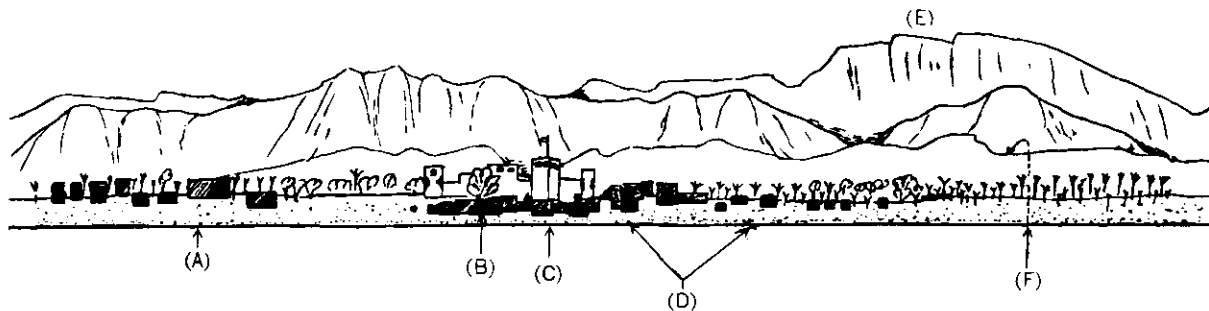
MASQAṬ COVE ENTRANCE FROM NORTHWESTWARD
(A) Fisher's Rock; (B) Ra's Masqaṭ bearing 118°; (C) Masqaṭ Island; (D) Masqaṭ Cove; (E) Ra's Kalbūh; (F) Kalbūh; (G) Dōhab.

VIEW 9 (SEC. 2B-8)



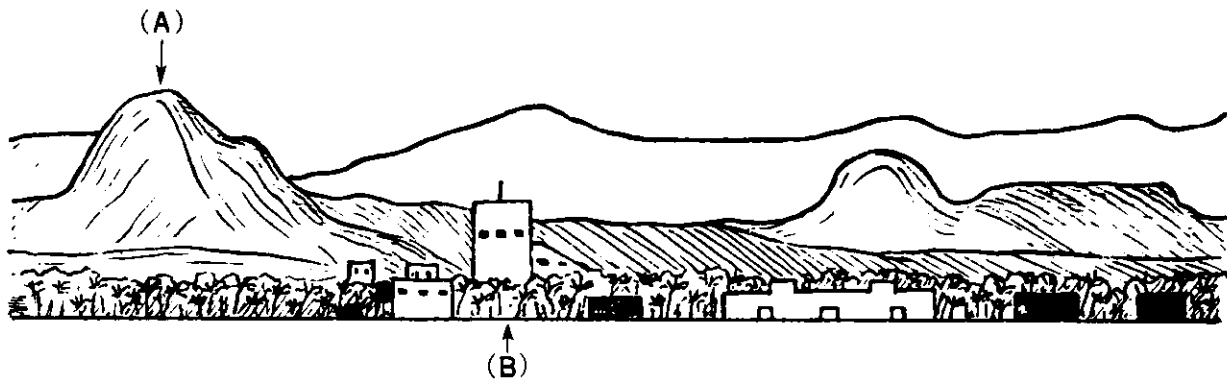
JAZĀIR AS SUWĀDI FROM NORTHWESTWARD
(A) Jabal 'Add bearing 157°, distant 4 miles.

VIEW 10 (SEC. 2B-13)



AS SUWAIQ FROM NORTHWARD
(A) Sandy foreshore; (B) Conspicuous tree; (C) Fort bearing 185°, distant 1¼ miles; (D) Mud and mat huts; (E) Jabal el Akhdar; (F) Coastal range.

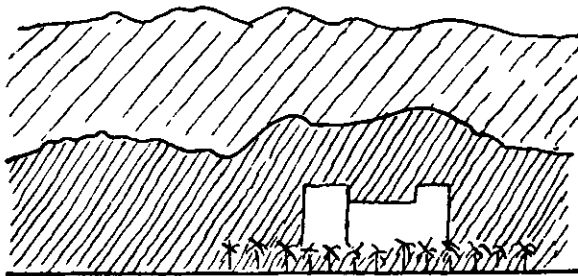
VIEW 11 (SEC. 2B-14)



ṢUḤĀR FROM EAST-NORTHEASTWARD

(A) Ṣuḥār Peak; (B) Fort bearing 253°, distant 1½ miles.

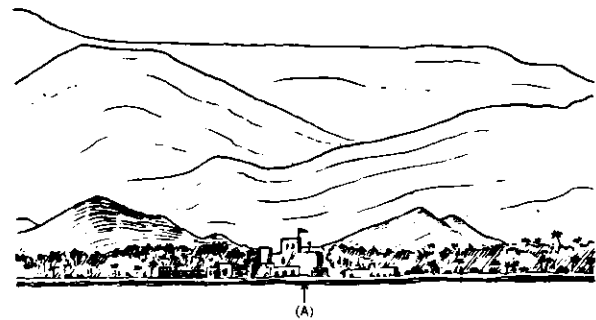
VIEW 12 (SEC. 2B-16)



FUJAIIRA FORT

Bearing 258°, distant 10 miles.

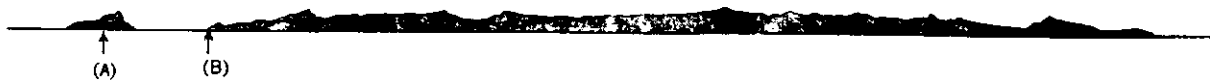
VIEW 13 (SEC. 2B-18)



KALBAH FROM EAST-NORTHEASTWARD

(A) Fort bearing 255°, distant about ¾ mile.

VIEW 14 (SEC. 2B-17)



RAS MUĀRI

(A) Churma Island; (B) Ras Muāri bearing 014°, distant 4½ miles.

VIEW 15 (SEC. 3A-1)



JABAL HINGLĀJ

(A) Bearing 349°, distant 40 miles.

VIEW 16 (SEC. 3A-2)



FAHL

Bearing 213°, distant 5 miles.

VIEW 17 (SEC. 2B-11)



JABAL ZARAIN

Bearing 042°, distant 4 miles.

VIEW 18 (SEC. 3A-2)



GWĀDAR

(A) Ra's Nūh bearing 270°, distant 15 miles; (B) Jabal-i-Mehdi; (C) Jabal Sur.

VIEW 19 (SEC. 3A-11)



KHALĪJ-E GAVĀTER

(A) Castle Hill bearing 352°, distant 10 miles.

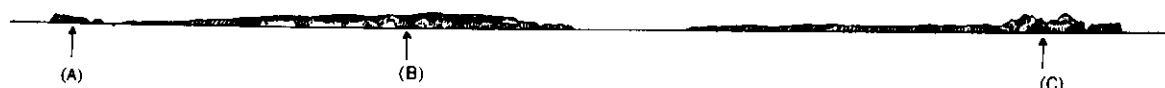
VIEW 20 (SEC. 3B-8)



RA'S BERĪS FROM SOUTHEASTWARD

(A) Kākī Kūh; (B) Ra's Berīs bearing 323°, distant 8 miles.

VIEW 21 (SEC. 3B-9)



CHĀBAHĀR

(A) Ra's Tīs bearing 057°; (B) Plateau of Chābahār; (C) Kākī Kūh.

VIEW 22 (SEC. 3B-10)



RA S NŪH

Bearing 347°, distant 10 miles.

VIEW 23 (SEC. 3A-11)



RA'S TĪS

Bearing 040°, distant about 5 miles.

VIEW 24 (SEC. 3B-10)



KHOWR RĀBCH

(A) Pushtesar; (B) Ra's el Khor; (C) Gūh Kūh.

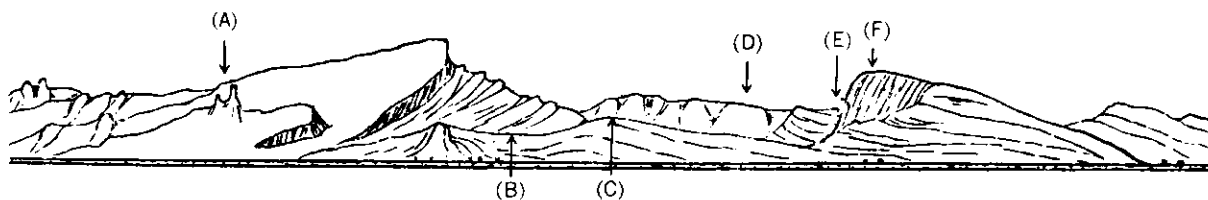
VIEW 25 (SEC. 3B-13)



RA'S-E MEYDANĪ FROM SOUTHEASTWARD

(A) Gūh Kūh distant 60 miles; (B) Ra's-e Meydanī bearing 321°, distant 6 miles.

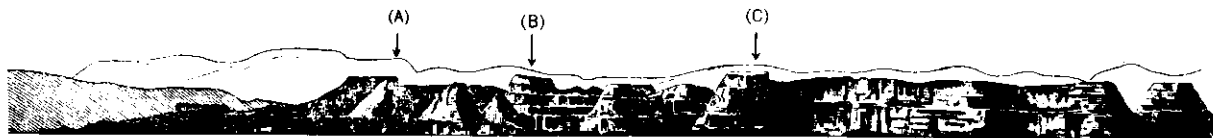
VIEW 26 (SEC. 3B-14)



MOUNTAINS NORTHWARD OF RA'S-E JĀSK, SEEN FROM KHALĪJ-E JĀSK

(A) Natural rock pillar; (B) Par Kūh bearing 338°; (C) Low coastal range; (D) Distant Range; (E) Perpendicular cliff; (F) Kūh-e Gīran.

VIEW 27 (SEC. 3B-16)



THE HUMMOCKS AT SOUTHWESTERN END OF QESHM FROM SOUTHWESTWARD

(A) Western Hummock; (B) Middle Hummock; (C) Eastern (highest) Hummock bearing about 022°.

VIEW 41 (SEC. 4C-12)



THE HUMMOCKS AT SOUTHWESTERN END OF QESHM FROM WESTWARD

(A) Middle Hummock; (B) Eastern (highest) Hummock bearing 090°; (C) Western Hummock.

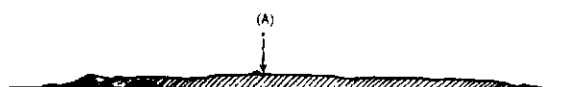
VIEW 42 (SEC. 4C-12)



JAZĪREH-YE TONB-E BOZORG

(A) Light bearing 230°, distant 11¼ miles.

VIEW 43 (SEC. 4D-7)



JAZĪREH-YE TONB-E BOZORG

(A) Light bearing 115°, distant 11 miles.

VIEW 44 (SEC. 4D-7)



JAZĪREH-YE BŪ MŪSĀ FROM SOUTHEASTWARD

(A) Sandy spit; (B) Mud huts; (C) Iron oxide; (D) Jabal Halwa bearing 305°.

VIEW 45 (SEC. 4D-9)



JAZĪREH-YE BANĪ FORŪR

(A) Saddle hill bearing 213°, distant 5 miles; (B) Rocks.

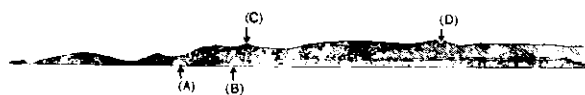
VIEW 46 (SEC. 4D-12)



JAZĪREH-YE SĪRRĪ

Bearing 235°, distant 6 miles.

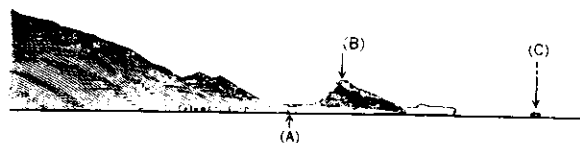
VIEW 47 (SEC. 4D-13)



SOUTHWESTERN END OF QESHM

- (A) Western Hummock bearing 300°, distant 16 miles;
 (B) Eastern Hummock; (C) Jabal-e Lengeh;
 (D) Grubb's Notch.

VIEW 48 (SEC. 4C-12)



APPROACH TO BANDAR-E CHĀRAK FROM WESTWARD

- (A) Bandar-e Tahuneh; (B) Jabal Hamar bearing 061°, distant 9 miles; (C) Charak Fort.

VIEW 49 (SEC. 5A-6)



JAZĪREH-YE SHEYKH SHO'EYB AND JAZĪREH-YE SHOTŪR FROM SOUTHWARD

- (A) Western point bearing 355°, distant 11 miles; (B) Jazīreh-ye Sheykh Sho'eyb; (C) Jazīreh-ye Shotūr.

VIEW 50 (SEC. 5A-10)



SHĀHĪN KŪH

Bearing 336°, distant 8 miles.

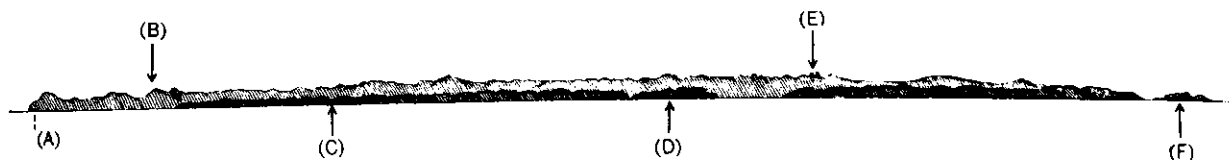
VIEW 51 (SEC. 5A-13)



COAST NORTHWESTWARD OF RA'S-E NĀY BĀND

- (A) Sīrī 'Ayanāt; (B) Qolleh-e Sīrī bearing 336°, distant about 50 miles; (C) Ra's-e Nāy Bānd.

VIEW 52 (SEC. 5B-6)



NORTHWESTERN PART OF COAST OF SHĪBKŪH

- (A) Sīrī 'Ayanāt; (B) Qolleh-e Sīrī; (C) Step; (D) Shāhīn Kūh bearing 046°, distant 17 miles; (E) Paps;
 (F) Hummocks.

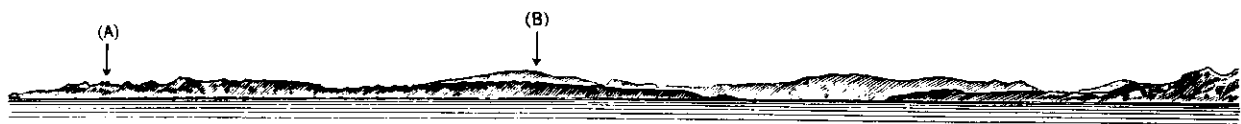
VIEW 53 (SEC. 5B-6)



SOUTHEASTERN PART OF COAST OF DASHTĪ

- (A) Kūh-e Derang bearing 054°, distant 20 miles; (B) Funnel Hill; (C) Sīrī 'Aynāt bearing 094°, distant 50 miles.

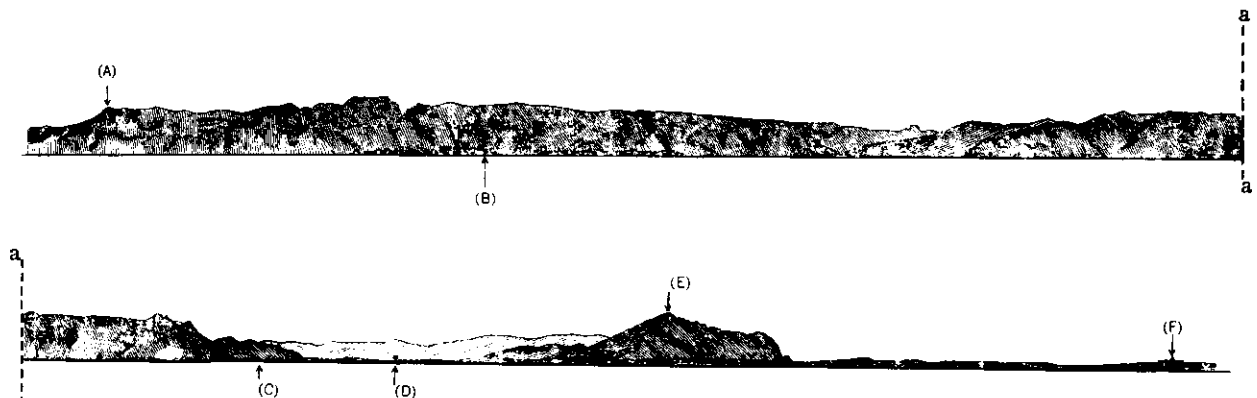
VIEW 54 (SEC. 5B-8)



COAST OF TANGISTAN

(A) Kūh-e Būrīāl bearing 347°, distant 36 miles; (B) Kūh-e Khormūj.

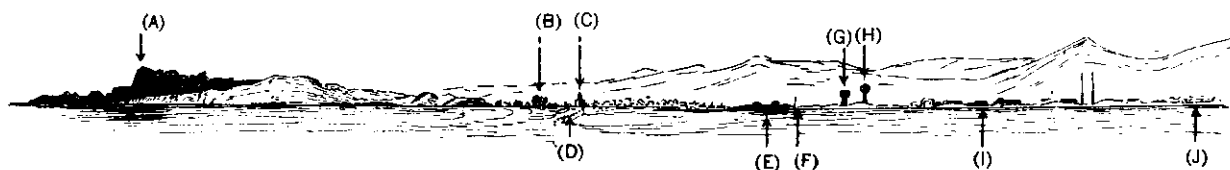
VIEW 55 (SEC. 5B-14)



APPROACH TO BŪSHEHR

(A) Kūh-e Gīsakān; (B) Būshehr; (C) Moqkeh; (D) Tree; (E) Kūh-e Khormūj; (F) Emāmzādeh-e Sabzpushan.

VIEW 56 (SEC. 8A-2)



COAST IN VICINITY OF GANĀVEH

(A) Kūh-e Bang; (B) Dark trees; (C) Mosque; (D) Khowr-e Khalīl; (E) Oil company quarters; (F) Light post; (G) Water tower; (H) Windmill; (I) Oil company depot; (J) Old Ganāveh.

VIEW 57 (SEC. 8A-12)



KŪH-E BANG

Bearing 015°, distant about 20 miles.

VIEW 58 (SEC. 8A-2)



ŞĪR ABŪ NU'AYR

Bearing 286°, distant about 5½ miles.

VIEW 59 (SEC. 6A-15)



ṢĪR BANĪ YĀS FROM NORTHWARD

Distant about 5 miles. (A) Qarn al Khabta; (B) Mount Stewart; (C) Sydney Hill.

VIEW 60 (SEC. 6A-21)



AZ ZARQĀ'

Bearing 268°, distant about 5 miles.

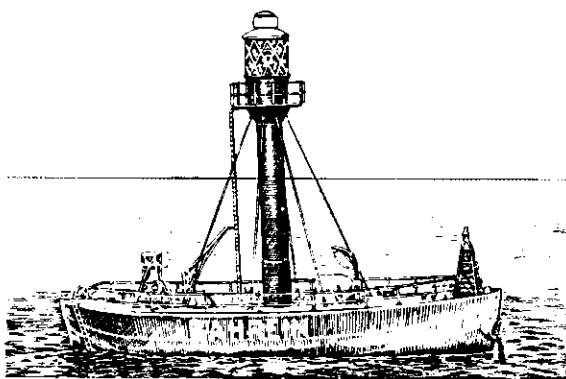
VIEW 61 (SEC. 6A-23)



JAZĪRAT AL QARNAYN FROM NORTH-NORTHWESTWARD

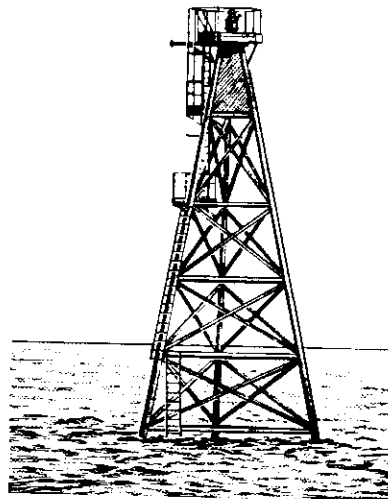
Distant about 3½ miles.

VIEW 62 (SEC. 6A-23)



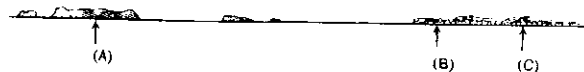
BAHREIN LIGHTSHIP

VIEW 63 (SEC. 7A-17)



SITRAH LIGHT BEACON

VIEW 64 (SEC. 7A-17)

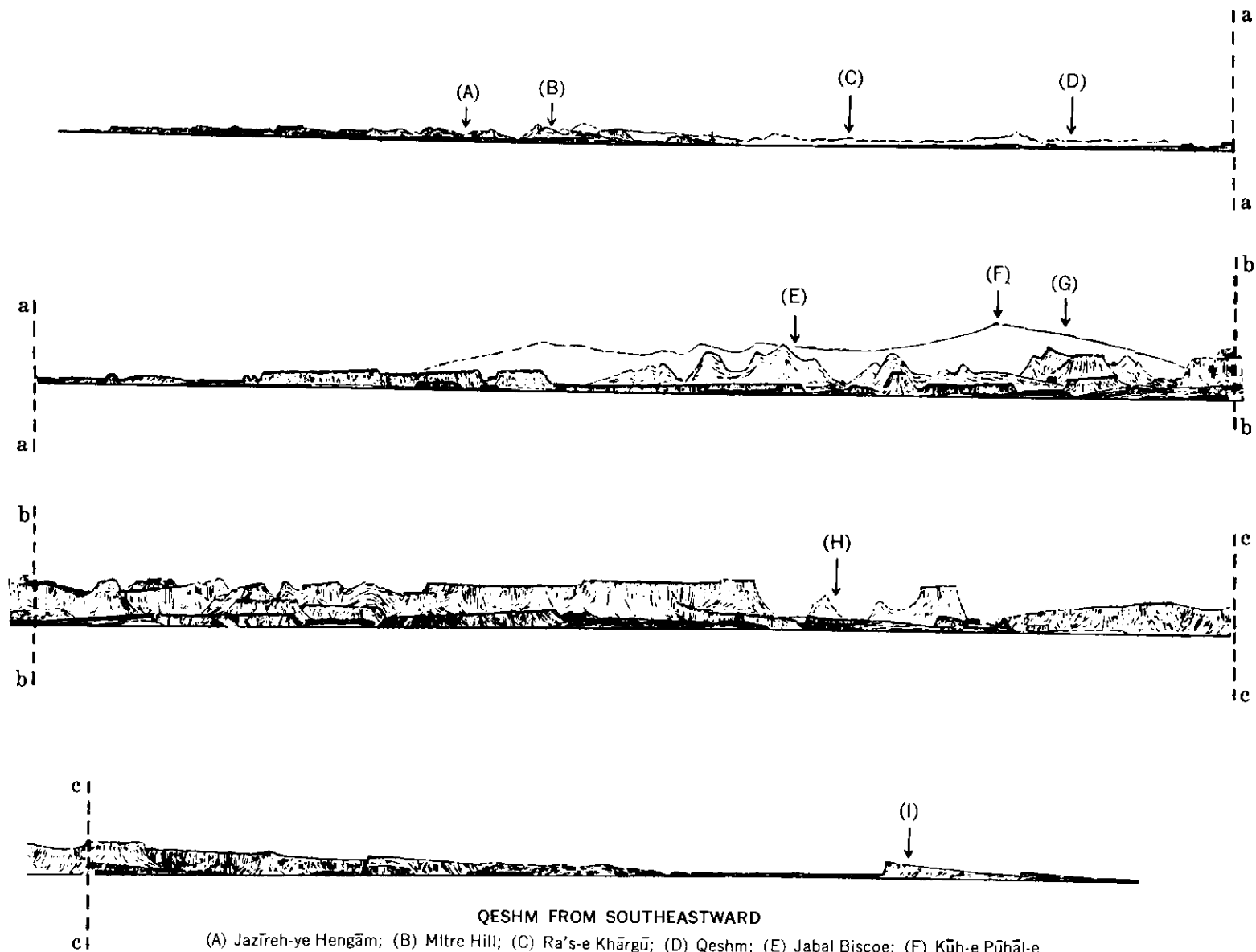


AL BAḤRAYN FROM NORTHEASTWARD

(A) Jabal ad Dukkhān; (B) Jazīrat al Muharraq
bearing 201°, distant about 6½ miles;
(C) Palm trees of Raiya.

VIEW 65 (SEC. 7A-7)

H.O. 62



QESHM FROM SOUTHEASTWARD

(A) Jazīreh-ye Hengām; (B) Mitre Hill; (C) Ra's-e Khārgū; (D) Qeshm; (E) Jabal Biscoe; (F) Kūh-e Pūhāl-e Khamīr; (G) Finger Peak bearing 316°, distant 13 miles; (H) Sugar Loaf Hill; (I) Qeshm escarpment.

VIEW 66 (SEC. 4C-2)



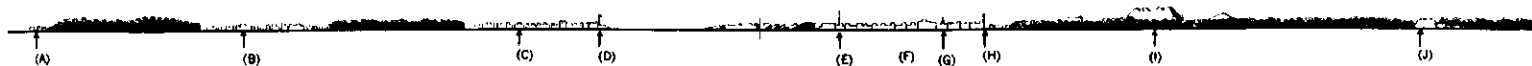
JĀSK AND VICINITY, SEEN FROM SOUTHWESTWARD
 (A) Kūh-e Mobārak; (B) Kūh-e Gīran; (C) Kūh-e Remān Band.

VIEW 67 (SEC. 3B-17)



APPROACHES TO BANDAR 'ABBĀS FROM SOUTHEASTWARD
 (A) Qeshm; (B) Jazīreh-ye Lārak; (C) Cone bearing 302°, distant 9 miles; (D) Kūhhā-ye Genu; (E) Jazīreh-ye Hormoz; (F) Khvoshkūh.

VIEW 68 (SEC. 4E-13)



NORTHERN APPROACH TO BAHREIN HARBOR
 (A) Qalali; (B) Dair; (C) Al Muharraq; (D) Flagstaff; (E) Radio mast bearing 172°, distant about 6¼ miles; (F) Al Manāmah; (G) Minaret; (H) Customs pier light; (I) Jabal ad Dukkhān; (J) Portuguese fort.

VIEW 69 (SEC. 7A-39)

APPENDIX II

CLIMATOLOGICAL TABLES

(U.S. Department of Commerce, Weather Bureau)

MASQAT.—Lat. 23°37' N., long. 58°35' E., elevation 15 ft.

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars).....	1017	1015	1013	1009	1005	999	997	1000	1005	1011	1015	1017	1009	18
TEMPERATURE														
Average (°F.).....	71	71	77	84	91	93	91	87	87	86	79	73	83	45
Average daily maximum (°F.).....	75	76	81	88	96	98	95	91	92	91	84	78	87	45
Average daily minimum (°F.).....	67	67	72	79	86	88	87	84	83	80	74	69	78	45
Extreme highest each month (°F.).....	87	96	108	110	112	116	113	109	109	105	96	92	116	45+
Extreme lowest each month (°F.).....	50	49	55	60	71	77	74	74	71	60	55	51	49	45
RELATIVE HUMIDITY														
Average percent (0800).....	72	73	71	64	58	72	77	82	75	69	69	70	71	7-9
Average percent (1600).....	71	73	70	68	60	72	77	80	77	74	72	71	72	7-9
CLOUD COVER														
Average amount (eighths).....	2.4	2.2	1.9	1.2	0.7	0.7	1.5	1.1	0.6	0.4	0.8	1.7	1.3	7-8
Equal to or less than 3/10 (mean number of days).....	18	19	21	26	27	26	24	26	27	29	26	24	263	5
Equal to or more than 7/10 (mean number of days).....	8	6	7	2	2	3	4	4	2	0.5	0.5	5	44	5
PRECIPITATION														
Average amount (inches).....	0.98	0.71	0.40	0.34	0	0.08	0.01	0.02	0.00	0.14	0.39	0.70	3.77	45
Greatest amount (inches).....	5.63	3.88	2.54	3.87	0.16	2.52	0.32	0.58	0.00	1.75	3.04	4.55	10.45	48
Least amount (inches).....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	48
Maximum in 24 hours (inches).....	3.10	2.17	1.7	2.02	0.16	2.42	0.15	0.41	0.00	1.45	2.10	2.25	3.10	45+
0.01 inch or more (mean number of days).....	2	1	1	1	<0.1	<0.1	<0.1	<0.1	0	<0.1	1	2	8	38
WIND														
Direction (percentage of 0800 obs.):														
North.....	1	2	3	6	4	1	2	2	4	4	2	1	3	7-9
Northeast.....	0	0	2	0	2	8	10	6	4	1	0	1	3	7-9
East.....	2	2	3	3	6	11	18	25	16	6	2	2	8	7-9
Southeast.....	4	2	2	4	5	4	11	10	10	7	2	0	5	7-9
South.....	3	1	1	0	0	1	1	0	1	1	1	2	1	7-9
Southwest.....	5	4	0	1	2	0	0	0	2	4	2	3	2	7-9
West.....	11	17	10	7	5	4	1	2	4	7	9	13	7	7-9
Northwest.....	18	20	36	40	32	26	14	9	15	30	21	15	23	7-9
Calm.....	56	52	43	39	44	46	43	45	45	40	61	63	48	7-9
Direction (percentage of 1600 obs.):														
North.....	7	4	2	3	1	2	2	3	5	2	7	8	4	7-9
Northeast.....	10	7	9	11	14	24	16	11	5	6	7	5	10	7-9
East.....	22	20	18	18	13	26	36	45	38	32	24	22	26	7-9
Southeast.....	5	2	7	7	10	5	10	15	14	7	4	1	7	7-9
South.....	0	1	1	0	0	0	1	1	1	4	1	1	1	7-9
Southwest.....	0	0	0	0	0	0	0	0	1	0	0	0	0	7-9
West.....	3	2	2	0	1	1	1	0	2	2	3	6	2	7-9
Northwest.....	36	42	43	35	37	21	10	3	13	24	35	36	28	7-9
Calm.....	17	22	18	26	24	21	24	22	21	23	19	21	22	7-9
22 knots or over (mean number of days).....	4	1	2	1	2	1	1	1	0	0	0	2	15	2-3
Mean wind speed (knots).....	4	4	4	3	3	3	3	3	3	3	3	3	3	45
VISIBILITY														
Days with visibility equal to or less than 1,100 yds. at 0400 G.m.t.....	0.2	0	0	0	0	0	0	0.8	0	0	0	0	1.0	5
Days with visibility equal to or less than 1,100 yds. at 1200 G.m.t.....	0.2	0	0	0	0	0	0	0	0	0	0	0	0.2	5

PASNI.—Lat. 25°16' N., long. 63°27' E., elevation 10 ft.

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars) at 0800.....	1019	1016	1013	1010	1005	1000	999	1002	1007	1012	1016	1018	1010	10
TEMPERATURE														
Average (°F.).....	65	67	73	79	84	86	85	82	81	79	73	67	77	25
Average daily maximum (°F.).....	75	77	85	91	94	94	91	88	89	91	85	78	86	25
Average daily minimum (°F.).....	55	57	62	68	74	79	79	76	73	67	61	57	67	25
Extreme highest each month (°F.).....	89	95	102	107	114	115	107	105	105	105	100	90	115	25+
Extreme lowest each month (°F.).....	39	31	47	50	54	60	65	63	57	51	37	40	31	25+
RELATIVE HUMIDITY														
Average percent (0800).....	69	75	67	69	72	75	80	78	78	69	63	70	72	10-11
Average percent (1530).....	64	62	60	59	65	70	73	74	71	64	61	59	65	6-9
CLOUD COVER														
Average amount (eighths).....	2.5	2.3	1.6	1.8	1.4	2.4	5.0	5.0	3.7	0.9	1.2	2.0	2.5	6-10
Equal to or less than 2/10 average amount (mean number of days).....	20	20	24	25	26	19	15	16	20	27	28	25	265	5
Equal to or more than 8/10 average amount (mean number of days).....	9	6	5	3	4	9	13	12	8	4	1	4	78	5
PRECIPITATION														
Average amount (inches).....	1.95	1.41	0.51	0.40	0.01	0.26	0.47	0.17	0.00	0.00	0.14	0.84	6.16	30
Greatest amount (inches).....	7.54	6.09	5.97	5.37	0.33	7.32	5.70	1.61	0.09	0.06	2.00	5.82	14.80	30
Least amount (inches).....	0	0	0	0	0	0	0	0	0	0	0	0	1.38	30
Maximum in 24 hours (inches).....	5.95	3.23	3.43	5.08	0.31	5.00	4.70	1.66	0.05	0.06	2.00	2.63	5.95	30
0.01 inch or more (mean number of days).....	4	4	1.1	0.3	0.3	0.1	1.4	0.5	0	0	0.3	1.4	13.4	10
WIND														
Direction (percentage of 0800 obs.):														
North.....	26	14	12	7	2	1	0	0	4	11	18	19	9	8
Northeast.....	12	7	6	4	2	2	0	2	1	10	11	12	6	8
East.....	14	14	7	4	14	18	13	15	15	12	4	8	11	8
Southeast.....	1	3	3	5	6	12	17	13	7	4	0	3	6	8
South.....	1	0	0	2	1	3	8	5	3	2	0	0	2	8
Southwest.....	1	1	1	4	11	14	18	21	9	2	1	0	7	8
West.....	8	11	19	38	41	33	25	28	32	20	11	8	23	8
Northwest.....	22	28	27	29	16	12	8	6	17	23	32	27	21	8
Calm.....	15	22	25	7	7	5	11	10	12	16	23	23	15	8
Direction (percentage of 1530 obs.):														
North.....	4	3	3	1	0	0	0	0	0	1	3	5	2	7-9
Northeast.....	3	1	1	1	0	0	0	0	0	2	1	3	1	7-9
East.....	16	11	2	0	1	1	3	1	3	4	15	5	11	7-9
Southeast.....	25	14	7	3	4	6	10	9	3	8	18	25	11	7-9
South.....	17	23	19	17	16	19	31	24	19	24	28	20	21	7-9
Southwest.....	20	27	42	50	46	49	45	47	55	45	36	20	40	7-9
West.....	11	16	24	28	29	24	12	17	22	17	9	9	18	7-9
Northwest.....	4	4	2	0	4	1	1	0	0	0	1	3	2	7-9
Calm.....	0	1	0	0	0	0	0	0	0	0	0	0	0	7-9
22 knots or over (mean number of days).....	0	1	2	2	5	4	3	3	2	2	1	3	28	2-3
Mean wind speed (knots).....	4.9	5.1	5.5	6.6	7.0	6.6	5.8	5.7	6.0	5.0	4.2	4.4	5.6	30
VISIBILITY														
Days with visibility equal to or less than 1,100 yds. at 0800.....	0	0.5	0.5	0.3	0.3	0	0	0	0.5	1.3	0	0.1	3.5	8
Days with visibility equal to or less than 1,100 yds. at 1700.....	0	0	0.2	0	0.2	0	0	0	0	0	0	0	0.4	5

GWĀDAR.—*Lat. 25°07' N., long. 62°19' E., elevation 22 ft.*

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars).....														
TEMPERATURE														
Average (°F.).....	65	69	75	81	86	87	85	82	81	80	74	69	78	9
Average daily maximum (°F.).....	73	77	83	89	94	93	90	87	88	89	84	77	85	9
Average daily minimum (°F.).....	57	61	66	73	78	81	81	77	75	71	65	61	71	9
Extreme highest each month (°F.).....	86	92	95	104	112	110	106	101	103	97	95	87	112	9+
Extreme lowest each month (°F.).....	39	41	49	59	67	74	75	71	68	58	55	44	39	9
RELATIVE HUMIDITY														
Average percent (a.m.).....	74	79	77	78	82	82	84	84	84	80	74	72	79	6
Average percent (p.m.).....	65	71	68	66	67	76	79	80	79	69	64	67	71	6
CLOUD COVER														
Average amount (tenths) at 0800.....	4.1	3.8	3.0	3.0	2.8	4.3	7.3	8.4	6.2	3.3	2.6	3.6	4.3	9
PRECIPITATION														
Average amount (inches).....	1.5	1.2	0.6	0.3	0.0	<0.1	0.3	0.0	0.0	0.0	0.2	2.3	6.4	9
Greatest amount (inches).....	4.69	5.88	0.70	3.30	0.00	0.02	0.05	0.00	0.00	0.00	0.46	5.50	12.71	6
Least amount (inches).....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51	6
Maximum in 24 hours (inches).....	2.4	2.5	2.6	3.3	0.0	0.3	1.4	0.0	0.0	0.0	0.7	5.3	5.3	9
Mean number of days with precipitation.....	2	2	0.6	0.1	0	0.1	0.5	0	0	0	0.5	2	8	9
WIND														
Direction (percentage of all obs.):														
North.....	22	16	11	2	1	1	1	1	1	4	8	19	7	7
Northeast.....	15	13	10	6	10	11	16	13	16	9	6	12	11	7
East.....	9	7	11	10	15	24	25	24	14	8	6	6	13	7
Southeast.....	2	2	4	5	4	13	18	23	11	7	1	3	8	7
South.....	2	1	1	2	1	7	13	12	4	2	1	2	4	7
Southwest.....	1	4	6	13	18	14	11	15	14	12	4	2	10	7
West.....	10	23	31	47	41	23	9	8	29	33	24	15	24	7
Northwest.....	21	18	15	7	4	1	1	1	4	10	19	18	10	7
Calm.....	19	16	11	8	6	6	6	4	7	15	31	23	13	7
Mean wind speed (knots).....	5	6	6	7	7	5	5	5	5	5	4	4	5	7
VISIBILITY														
Days with visibility equal to or less than ½ mile at a.m. ob.....	0	1	0	1	1	1	1	1	1	2	1	0	10	3
Days with visibility equal to or less than ½ mile at p.m. ob.....	1	0	0	0	1	2	3	1	0	0	1	0	9	3

CHĀH BĀHAR.—*Lat. 25°17' N., long. 60°37' E., elevation 26 ft.*

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars).....	1017	1014	1012	1009	1004	999	997	1000	1005	1011	1015	1017	1008	15-17
TEMPERATURE														
Average (°F.).....	67	69	74	80	85	88	87	84	83	81	76	70	79	12-14
Average daily maximum (°F.).....	74	76	81	87	91	93	91	88	88	88	84	78	85	12
Average daily minimum (°F.).....	59	62	67	72	78	82	82	79	77	73	67	62	72	14
Extreme highest each month (°F.).....	85	86	94	98	103	105	112	102	104	99	97	87	112	12
Extreme lowest each month (°F.).....	41	45	50	61	70	75	73	72	69	59	57	46	41	14
RELATIVE HUMIDITY														
Average percent (0800).....	73	76	76	77	81	81	79	79	80	81	69	67	77	10
Average percent (1600).....	61	63	63	68	73	75	74	74	74	70	62	58	68	10
CLOUD COVER														
Average amount (eighths).....	3.3	2.6	2.2	1.8	1.1	1.6	3.4	3.3	2.3	1.1	1.0	2.4	2.2	9-11
Equal to or less than $\frac{1}{10}$ average amount (mean number of days).....	17	17	21	25	27	23	22	17	20	26	26	18	259	5
Equal to or more than $\frac{1}{10}$ average amount (mean number of days).....	8	6	6	3	2	4	7	9	7	2	2	7	63	5
PRECIPITATION														
Average amount (inches).....	1.7	0.8	0.2	0.1	0.0	<0.1	0.1	0.0	0.0	0.0	0.1	1.0	4.0	17
Greatest amount (inches).....	4.05	5.30	1.91	0.88	0	0.38	0.48	0	0	0	0.52	4.20	6.03	10
Least amount (inches).....	0	0	0	0	0	0	0	0	0	0	0	0	1.41	10
Maximum in 24 hours (inches).....	2.55	2.20	1.91	0.51	0	0.26	0.48	0	0	0	0.44	2.73	2.73	10
0.01 inch or more (mean number of days).....	3	2	0.3	0.6	0	0	0.1	0	0	0	0.2	0.8	7	10
WIND														
Direction (percentage of 0730 obs.):														
North.....	6	5	3	4	0	1	0	1	0	2	3	6	3	8-11
Northeast.....	24	12	9	5	3	6	9	7	7	9	15	20	10	8-11
East.....	20	12	12	7	10	18	32	34	24	12	15	19	18	8-11
Southeast.....	2	2	4	3	10	15	17	22	16	4	3	3	8	8-11
South.....	1	2	0	0	3	6	8	6	4	2	0	0	2	8-11
Southwest.....	1	1	1	1	4	4	2	2	3	1	0	0	2	8-11
West.....	2	9	13	13	12	2	1	1	3	4	2	2	5	8-11
Northwest.....	9	19	24	24	13	4	2	1	3	12	14	9	11	8-11
Calm.....	35	38	34	43	45	44	29	26	40	54	48	41	40	8-11
Direction (percentage of 1530 obs.):														
North.....	1	2	2	0	0	0	0	0	0	0	0	3	1	8-11
Northeast.....	3	2	2	4	2	0	0	0	0	1	2	6	2	8-11
East.....	4	3	3	0	0	2	4	2	0	0	0	3	2	8-11
Southeast.....	21	10	13	7	18	21	36	42	27	8	8	7	18	8-11
South.....	21	18	21	25	32	35	35	35	39	26	23	16	27	8-11
Southwest.....	19	31	38	39	32	23	16	13	23	42	37	32	29	8-11
West.....	13	21	16	14	12	4	3	1	4	14	19	14	11	8-11
Northwest.....	8	6	3	3	1	1	0	0	0	0	1	4	2	8-11
Calm.....	10	7	2	8	3	14	8	5	5	9	10	15	8	8-11
22 knots or over (mean number of days).....	0	1	1	1	2	2	3	1	1	0	1	2	15	2-3
Mean wind speed (knots).....	5	6	6	6	5	6	7	7	5	5	5	5	6	10
VISIBILITY														
Days with visibility equal to or less than 1,100 yds. at 0400 G.m.t.....	0.6	0.1	1.0	0.9	0.8	0	0	0	0.5	0	0.6	0	4.5	8
Days with visibility equal to or less than 1,100 yds. at 1,200 G.m.t.....	0	0	1.1	0	0	0	0.5	0	0	0	0.1	0	1.7	8

JASK.—Lat. 25°45' N., long. 57°45' E., elevation 13 ft.

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars).....	1017	1015	1012	1009	1004	999	997	999	1005	1011	1015	1017	1008	40
TEMPERATURE														
Average (°F.).....	68	69	74	80	86	90	91	89	87	83	77	71	80	45
Average daily maximum (°F.).....	75	75	81	87	93	96	96	95	94	91	84	78	87	45
Average daily minimum (°F.).....	61	62	67	72	78	83	85	84	81	76	69	63	73	45
Extreme highest each month (°F.).....	85	88	93	102	110	113	112	110	108	103	94	88	113	45+
Extreme lowest each month (°F.).....	42	47	47	60	65	73	70	74	70	64	52	46	42	45+
RELATIVE HUMIDITY														
Average percent (0730).....	70	74	68	67	67	72	75	74	71	67	63	70	70	9-11
Average percent (1530).....	60	63	61	63	65	66	68	68	66	61	60	60	63	9-11
CLOUD COVER														
Average amount (eighths).....	3.3	2.8	2.2	1.8	1.0	0.7	2.0	1.8	1.1	0.6	1.3	2.6	1.8	10
Equal to or less than 3/10 average amount (mean number of days).....	16	16	21	25	27	27	23	24	26	29	24	22	280	5
Equal to or more than 7/10 average amount (mean number of days).....	12	8	6	4	2	1	5	3	2	1	4	7	55	5
PRECIPITATION														
Average amount (inches).....	1.2	1.0	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.1	4.6	48
Greatest amount (inches).....	5.93	5.91	4.77	2.96	0.37	0.81	0.71	0.29	0	1.87	2.88	4.72	8.97	48-49
Least amount (inches).....	0	0	0	0	0	0	0	0	0	0	0	0	0.22	48-49
Maximum in 24 hours (inches).....	2.73	2.29	3.27	2.86	0.25	0.72	0.71	0.20	0	1.35	1.7	2.32	3.27	45+
0.1 inch or more (mean number of days).....	2	2	1	0.5	<0.1	0.1	<0.1	<0.1	0	0.3	0.6	2	8.5	38
WIND														
Direction (percentage of 0730 obs.):														
North.....	33	18	15	8	3	4	1	1	5	9	26	35	13	10-11
Northeast.....	33	35	19	12	9	10	6	6	10	17	36	38	19	10-11
East.....	17	15	23	23	31	52	68	72	62	39	15	7	35	10-11
Southeast.....	0	0	2	2	3	7	5	8	5	3	2	0	3	10-11
South.....	0	0	0	0	2	1	2	1	1	0	1	0	1	10-11
Southwest.....	0	1	3	3	6	2	2	1	1	0	0	0	2	10-11
West.....	4	10	15	23	26	13	10	6	2	8	3	7	11	10-11
Northwest.....	12	20	20	22	15	9	5	2	6	14	11	11	12	10-11
Calm.....	1	1	3	7	5	2	1	3	8	10	6	2	4	10-11
Direction (percentage of 1530 obs.):														
North.....	3	1	2	0	0	0	0	0	0	0	0	2	1	10-11
Northeast.....	1	1	1	1	0	0	0	0	0	0	0	2	0	10-11
East.....	12	9	5	1	1	2	2	6	1	1	2	5	4	10-11
Southeast.....	15	10	10	8	6	14	36	36	27	17	10	10	17	10-11
South.....	15	11	11	11	14	19	30	26	23	17	20	19	18	10-11
Southwest.....	20	29	34	42	39	35	16	20	24	32	35	26	29	10-11
West.....	28	33	30	32	37	27	14	11	21	31	26	31	27	10-11
Northwest.....	6	6	7	5	3	3	2	1	4	2	4	4	4	10-11
Calm.....	0	0	0	0	0	0	0	0	0	0	1	1	0	10-11
22 knots or over (mean number of days).....	3	4	4	2	3	5	6	4	4	2	2	2	41	2-3
Mean wind speed (knots).....	7	8	8	7	7	8	8	8	7	6	6	7	7	30
VISIBILITY														
Days with visibility equal to or less than 1,100 yds. at 0400 G.m.t.....	0.1	0.4	0.1	0.5	0.1	0.5	0.4	0.1	0.4	0.7	0.1	0	3.4	8
Days with visibility equal to or less than 1,100 yds. at 1200 G.m.t.....	0.1	0.1	0	0.4	0.6	0.9	0.7	0.1	0.5	0.3	0	0	3.7	8

BANDAR 'ABBAS.—Lat. 27°11' N., long. 56°17' E., elevation 29 ft.

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars).....	1017	1015	1013	1010	1005	999	997	999	1005	1012	1015	1018	1009	7-10
TEMPERATURE														
Average (°F.).....	65	67	73	80	87	91	93	92	90	85	77	68	80	7-10
Average daily maximum (°F.).....	74	75	81	89	97	101	100	100	98	95	87	77	89	7-10
Average daily minimum (°F.).....	56	59	64	70	76	81	85	84	81	75	66	58	71	7-10
Extreme highest each month (°F.).....	83	87	93	103	107	119	114	113	108	103	99	91	119	7
Extreme lowest each month (°F.).....	38	48	51	53	69	74	70	78	73	60	56	45	38	7
RELATIVE HUMIDITY														
Average percent (0730).....	73	75	69	67	66	68	72	70	76	75	67	70	71	7-10
Average percent (1530).....	63	64	60	59	57	58	63	65	70	67	62	63	63	7-10
CLOUD COVER														
Average amount (eighths).....	2.2	1.9	1.8	1.4	0.7	0.6	1.6	1.1	0.6	0.5	1.1	2.0	1.3	7-10
Less than 2/10 average amount (mean number of days).....														
More than 8/10 average amount (mean number of days).....														
PRECIPITATION														
Average amount (inches).....	2.4	1.3	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1	1.6	6.1	8-10
Greatest amount (inches).....														
Least amount (inches).....														
Maximum in 24 hours (inches).....	1.7	1.8	1.0	1.5	1.0	0.0	0.0	0.0	0.3	<0.1	0.5	3.7	3.7	7
0.01 inch or more (mean number of days).....	2	2	0.8	0.4	0.1	0	0	0	0.1	0.1	0.1	2	7.6	8
WIND														
Direction (percentage of 0730 obs.):														
North.....	27	21	15	7	8	6	4	6	10	11	21	26	14	6-8
Northeast.....	34	34	41	44	32	28	21	19	42	49	49	28	35	6-8
East.....	2	4	4	7	7	11	17	17	14	8	3	3	8	6-8
Southeast.....	0	2	1	2	6	5	15	12	6	3	0	0	4	6-8
South.....	1	2	1	3	4	3	7	3	2	3	0	0	2	6-8
Southwest.....	1	1	5	4	3	3	6	1	0	2	0	0	2	6-8
West.....	3	8	11	5	6	6	3	4	2	3	1	3	5	6-8
Northwest.....	23	19	13	7	5	8	3	9	6	10	16	33	13	6-8
Calm.....	9	9	9	21	29	30	24	29	18	11	10	7	17	6-8
Direction (percentage of 1530 obs.):														
North.....	0	0	0	1	0	0	0	0	0	2	2	1	0	6-8
Northeast.....	6	4	5	0	0	0	0	0	0	0	2	3	2	6-8
East.....	6	2	4	0	0	1	0	1	1	0	3	6	2	6-8
Southeast.....	17	22	19	17	13	20	35	38	33	15	14	19	22	6-8
South.....	37	48	46	58	54	54	52	50	53	67	61	50	52	6-8
Southwest.....	22	19	25	21	31	24	12	9	13	15	15	15	18	6-8
West.....	5	1	1	3	2	1	1	1	0	1	2	2	2	6-8
Northwest.....	3	1	0	0	0	0	0	1	0	0	0	3	1	6-8
Calm.....	4	3	0	0	0	0	0	0	0	0	1	1	1	6-8
Mean wind speed (knots).....	5	5	6	6	6	6	5	5	6	5	5	5	5	6-8
34 knots or over (mean number of days).....														

KHAWR SHARJA.—*Lat. 25°20' N., long. 55°21' E., elevation 18 ft.*

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars).....	1,017	1,015	1,013	1,010	1,005	999	997	999	1,004	1,011	1,015	1,017	1,008	11-13
TEMPERATURE														
Average (°F.).....	64	66	70	76	83	87	91	93	88	82	76	68	79	11-13
Average daily maximum (°F.).....	74	75	80	86	93	97	100	103	99	92	87	78	89	11-13
Average daily minimum (°F.).....	54	57	60	65	72	77	82	82	77	71	64	58	68	11-13
Extreme highest each month (°F.).....	85	91	104	103	109	112	117	118	113	108	97	88	118	11
Extreme lowest each month (°F.).....	37	46	46	53	61	67	73	73	69	64	54	47	37	11
RELATIVE HUMIDITY														
Average percent (0730).....	81	81	74	66	61	64	64	66	73	62	78	82	72	10-12
Average percent (1530).....	61	63	61	63	63	65	64	64	64	62	59	62	63	10-12
CLOUD COVER														
Average amount (tenths).....	4.5	3.8	3.4	2.1	1.3	0.7	1.7	1.4	0.7	1.0	2.3	3.2	2.2	5-8
Less than 2/8 (mean number of days).....	16	10	10	14	20	25	17	19	24	29	19	10	213	4-5
More than 6/8 (mean number of days).....	2	2	3	1	0.4	0.5	0.5	0.0	0.0	0.0	0.6	2	12	4-5
PRECIPITATION														
Average amount (inches).....	0.9	0.9	0.4	0.2	0	0	0	0	0	0	0.4	1.4	4.2	12-13
Greatest amount (inches).....	2.31	4.16	1.88	0.45	0	0	0	0	0	0	4.44	2.48	9.01	8
Least amount (inches).....	0.04	0	0	0	0	0	0	0	0	0	0	0	2.28	8
Maximum in 24 hours (inches).....	1.35	2.51	0.9	1.2	0	0	0	0	0	0	4.3	1.5	4.3	8-10
0.01 inch or more (mean number of days).....	4	3	1.3	0.7	0	0	0	0	0	0	0.6	2	11.6	10
WIND														
Direction (percentage of 0730 obs.):														
North.....	0	1	1	2	0	0	0	0	1	0	1	0	0	10-12
Northeast.....	2	4	4	4	1	2	2	3	1	1	2	5	3	10-12
East.....	14	11	7	5	2	4	11	13	10	10	16	16	10	10-12
Southeast.....	43	35	27	17	12	14	18	32	37	40	47	39	30	10-12
South.....	20	25	25	34	48	49	36	32	29	31	22	18	31	10-12
Southwest.....	2	2	5	9	15	13	13	4	2	1	1	1	6	10-12
West.....	8	12	10	6	4	1	1	1	0	1	1	5	4	10-12
Northwest.....	5	5	4	2	1	1	1	1	0	0	1	3	2	10-12
Calm.....	6	5	17	21	17	16	18	14	20	16	9	13	14	10-12
Direction (percentage of 1530 obs.):														
North.....	14	16	18	12	6	7	19	26	15	9	15	17	15	10-12
Northeast.....	4	3	4	2	0	1	1	1	1	0	1	4	2	10-12
East.....	0	2	0	0	0	0	2	1	0	0	1	1	1	10-12
Southeast.....	1	0	1	0	0	0	0	0	0	0	1	1	0	10-12
South.....	1	2	1	0	0	0	0	0	0	0	0	1	0	10-12
Southwest.....	7	6	5	5	4	6	3	1	1	1	1	7	4	10-12
West.....	37	42	36	42	52	43	27	16	16	30	28	31	33	10-12
Northwest.....	36	29	35	39	38	43	48	55	67	60	53	37	45	10-12
Calm.....	0	0	0	0	0	0	0	0	0	0	0	1	0	10-12
34 knots or over (mean number of days).....	0.2	0.4	0	0	0	0	0	0.3	0	0	0	0	0.9	4-5
Mean wind speed (knots).....	6	7	7	6	6	6	6	6	5	5	5	5	6	10-12
VISIBILITY														
Days with visibility equal to or less than 1,100 yds at 0400 G.m.t.....														
Mean days with fog.....	0.3	1.7	1.7	2	2	2	1.1	1.1	3	1.8	0.2	1.0	17.9	10

BAHREIN HARBOR.—Lat. 26°12' N., long. 50°30' E., elevation 18 ft.

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars).....	1018	1017	1014	1011	1006	1001	997	999	1005	1012	1016	1019	1010	6-8
TEMPERATURE														
Average (°F.).....	63	65	69	77	85	89	92	93	89	83	76	64	79	16
Average daily maximum (°F.).....	68	70	75	84	92	96	99	100	96	90	82	67	85	16
Average daily minimum (°F.).....	57	59	63	70	78	82	85	85	81	75	69	60	72	16
Extreme highest each month (°F.).....	85	94	95	105	109	111	112	113	112	105	97	88	113	16+
Extreme lowest each month (°F.).....	41	45	51	56	65	70	74	75	71	56	53	43	41	16+
RELATIVE HUMIDITY														
Average percent (0700) ¹	82	80	77	76	72	67	70	74	77	81	80	82	77	7-8
Average percent (1600) ¹	65	63	58	51	53	52	52	56	55	57	61	67	57	7-8
CLOUD COVER														
Average amount (tenths) at 0800.....	4.2	3.5	3.5	3.2	2.1	0.3	0.9	1.1	0.4	1.0	2.6	4.3	2.3	14
Less than 2/8 (mean number of days) ¹	14	11	10	14	19	29	24	28	29	29	19	11	237	7-8
More than 6/8 (mean number of days) ¹	2	3	4	2	1	0	0.1	0.1	0	0	1	5	18.2	7-8
PRECIPITATION														
Average amount (inches).....	0.2	0.8	0.5	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	1.1	2.9	7-8
Greatest amount (inches).....	1.24	2.73	1.74	2.56	0.28	0.00	0.00	0.00	0.00	0.00	5.78	2.49	6.66	10
Least amount (inches).....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.69	10
Maximum in 24 hours (inches).....	1.2	1.5	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.1	2.8	1.8	2.8	16
0.01 inch or more (mean number of days).....	3	3	3	1.9	0.3	0	0	0	0	0	1.2	2.0	14.4	10
WIND														
Direction (percentage of 0700 obs.):														
North.....	13	20	34	25	20	18	7	8	11	14	11	8	16	5-6
Northeast.....	2	1	9	4	4	0	1	2	1	3	1	2	3	5-6
East.....	2	5	5	7	3	0	1	4	2	0	4	2	3	5-6
Southeast.....	9	12	8	7	3	1	4	3	3	3	2	7	5	5-6
South.....	14	4	4	7	3	1	3	4	3	5	9	8	5	5-6
Southwest.....	4	2	3	9	4	6	4	6	5	9	7	2	5	5-6
West.....	23	13	16	16	30	27	39	35	32	32	28	35	27	5-6
Northwest.....	24	35	14	14	27	42	33	26	28	18	24	27	28	5-6
Calm.....	9	8	7	11	6	5	8	12	15	16	14	9	10	5-6
Mean wind speed (knots) at 0700.....	9	10	11	9	9	11	8	7	7	6	7	9	9	5-6
Direction (percentage of 1600 obs.):														
North.....	17	32	47	43	50	46	48	56	65	61	47	18	44	5-6
Northeast.....	3	5	8	19	11	8	20	16	13	12	3	3	10	5-6
East.....	5	6	17	14	11	1	6	11	7	11	4	3	8	5-6
Southeast.....	12	8	3	5	1	0	1	1	1	0	2	8	3	5-6
South.....	12	9	3	4	1	0	0	0	1	1	6	6	4	5-6
Southwest.....	2	1	0	1	0	0	0	0	0	0	0	2	0	5-6
West.....	11	4	2	0	0	0	3	1	0	1	4	10	3	5-6
Northwest.....	37	34	19	13	26	45	22	15	13	14	33	49	27	5-6
Calm.....	1	1	1	1	0	0	0	0	0	0	1	1	1	5-6
34 knots or over (mean number of days).....	0	0	0.1	0	0	0	0	0	0	0	0	0	0.1	7-8
Mean wind speed (knots) at 1600.....	11	12	13	12	13	14	13	12	11	10	10	10	12	5-6
VISIBILITY														
Days with visibility equal to or less than 1,100 yds. at 0400 G. m. t.....	0.7	0.5	0.4	0.1	0.3	0.9	3	1.5	0.1	0.4	0.5	0.5	8.9	8

¹ Data for Muharraq (26°16' N., 50°37' E., Elevation 7 ft.).

BÜSHEHR.—Lat. 28°59' N., long. 50°50' E., elevation 14 ft.

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars).....	1018	1015	1014	1011	1006	1000	996	998	1004	1011	1015	1018	1009	10
TEMPERATURE														
Average (°F.).....	57	59	66	74	83	87	89	91	87	80	71	61	75	53
Average daily maximum (°F.).....	64	66	72	81	89	92	95	96	94	88	78	68	82	60
Average daily minimum (°F.).....	52	53	59	67	76	81	84	84	80	72	63	55	69	60
Extreme highest each month (°F.).....	80	85	105	108	107	112	115	115	109	101	93	87	115	60
Extreme lowest each month (°F.).....	32	37	42	47	58	67	74	69	63	55	42	37	32	60
RELATIVE HUMIDITY														
Average percent (0730).....	82	82	76	72	73	74	75	72	71	68	74	82	75	8-9
Average percent (1530).....	78	76	71	72	74	72	73	71	69	68	71	77	73	8-9
CLOUD COVER														
Average amount (eighths).....	2.3	2.5	2.0	1.4	0.7	0.1	0.3	0.4	0.2	0.5	1.9	2.8	1.2	8-9
Equal to or less than 3/10 average amount (mean number of days).....	18	16	21	25	27	30	30	29	30	29	22	20	297	5
Equal to or more than 7/10 average amount (mean number of days).....	10	10	8	4	3	0	0	0	0	1	6	8	50	5
PRECIPITATION														
Average amount (inches).....	2.76	1.79	0.84	0.40	0.03	0	0	0	0	0.11	1.76	3.11	10.80	60
Greatest amount (inches).....	12.90	6.66	4.69	2.12	0.54	0.00	0.00	0.19	0.00	2.06	11.68	13.27	26.61	63-65
Least amount (inches).....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63-65
Maximum in 24 hours (inches).....	5.53	3.35	2.60	1.48	0.54	0	0	0.19	0	1.75	4.30	5.30	5.53	60
0.01 inch or more (mean number of days).....	5	3	2	1	<0.1	0	0	<0.1	0	0.2	3	4	18	53
WIND														
Direction (percentage of 0730 obs.):														
North.....	25	23	28	25	27	27	20	17	20	19	18	25	23	8-9
Northeast.....	26	21	21	16	15	9	9	14	15	25	28	29	19	8-9
East.....	17	11	17	12	8	5	6	17	17	17	27	23	15	8-9
Southeast.....	12	10	8	12	6	6	7	16	16	11	17	13	11	8-9
South.....	3	5	3	5	4	4	8	5	4	3	2	1	4	8-9
Southwest.....	2	3	0	2	2	5	5	2	3	4	0	0	2	8-9
West.....	0	1	2	5	6	6	6	3	5	3	1	0	3	8-9
Northwest.....	6	9	9	15	26	35	29	15	8	10	4	3	14	8-9
Calm.....	9	17	12	8	6	3	10	11	12	8	3	6	9	8-9
Direction (percentage of 1530 obs.):														
North.....	15	10	4	5	3	6	2	2	3	4	10	18	7	8-9
Northeast.....	5	3	2	0	2	0	0	0	0	0	3	2	1	8-9
East.....	1	2	0	0	0	0	0	0	1	0	3	4	1	8-9
Southeast.....	11	6	5	3	1	0	0	0	0	0	6	7	3	8-9
South.....	10	14	9	11	1	1	5	5	3	2	8	9	6	8-9
Southwest.....	5	5	8	11	10	10	16	18	12	8	7	2	9	8-9
West.....	5	9	20	29	35	43	48	42	42	37	17	7	28	8-9
Northwest.....	48	50	52	41	46	39	29	33	39	48	47	50	44	8-9
Calm.....	0	1	0	0	2	1	0	0	1	1	1	1	1	8-9
22 knots or over (mean number of days).....	3	4	2	4	3	9	7	2	2	1	2	2	41	2-3
Mean wind speed (knots).....	7	7	7	7	7	8	6	5	5	4	5	6	6	60
VISIBILITY														
Days with visibility equal to or less than 1,100 yds. at 0400 G.m.t.....	0.1	0.9	0	0.3	0.1	0.6	1.3	0.1	0	0.1	0.1	0.5	4.1	8
Days with fog.....	0	0.8	0.1	0.1	0.1	0.1	0.6	0.1	0.1	0.1	0.1	0.6	2.8	10

AL KUWAYT.—Lat. 29°21' N., long. 48°00' E., elevation 16 ft.

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
TEMPERATURE														
Average (° F.).....	55	58	66	76	86	90	95	95	91	82	70	59	77	14-15
Average daily maximum (° F.).....	61	65	72	83	94	98	103	104	100	91	77	65	85	14
Average daily minimum (° F.).....	49	51	59	68	77	82	86	86	81	73	62	53	69	15
Extreme highest each month (° F.).....	82	78	90	103	109	119	118	115	117	105	100	79	119	16
Extreme lowest each month (° F.).....	33	36	40	54	60	72	78	68	67	57	43	36	33	10
RELATIVE HUMIDITY														
Average percent (0530).....	77	68	72	67	67	62	45	50	52	64	66	76	64	2
Average percent (1430).....	61	61	61	55	55	49	41	46	51	60	59	65	55	3
CLOUD COVER														
Average amount (tenths) at 0800.....	3.9	4.0	3.1	2.9	2.3	0.1	0.5	0.4	0.2	1.5	2.7	4.1	2.1	7
PRECIPITATION														
Average amount (inches).....	0.9	0.9	1.1	0.2	<0.1	0.0	0.0	0.0	0.0	0.1	0.6	1.1	4.9	10
Maximum in 24 hours (inches).....	1.0	1.7	1.5	0.5	0.3	0.0	0.0	0.0	0.0	1.0	2.2	1.2	2.2	10
0.1 inch or more (mean number of days).....	2	2	2	0.9	0.3	0	0	0	0	<0.1	1	3	11.2	10

KHORRAMSHAHR.—Lat. 30°28' N., long. 48°18' E., elevation 10 ft.

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
TEMPERATURE														
Average (° F.).....	55	58	65	75	84	90	92	93	89	81	69	57	76	6
Average daily maximum (° F.).....	63	67	75	86	96	102	104	105	102	93	81	65	87	6
Average daily minimum (° F.).....	47	50	56	64	73	78	80	81	75	69	58	48	65	6
Extreme highest each month (° F.).....	76	81	87	109	116	117	120	118	115	100	93	80	120	6
Extreme lowest each month (° F.).....	30	37	43	52	59	67	73	69	60	48	48	34	30	6
PRECIPITATION														
Average amount (inches).....	1.17	1.44	1.58	0.43	0.11	0.00	0.00	0.00	0.00	0.10	1.30	2.48	8.61	9
Maximum in 24 hours (inches).....	0.95	0.93	1.05	0.90	0.20	0.00	0.00	0.00	0.00	0.40	1.70	1.60	1.70	6
0.01 inch or more (mean number of days).....	5	3	4	3	1	0	0	0	0	0	2	6	24	6

ĀBĀDĀN.—*Lat. 30°21' N., long. 48°16' E., elevation 7 ft.*

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
TEMPERATURE														
Average (°F.)	53	59	65	76	87	93	97	97	90	81	69	58	77	10
Average daily maximum (°F.)	63	68	76	88	101	108	112	113	107	97	81	68	90	10
Average daily minimum (°F.)	44	49	55	64	74	78	82	81	73	65	57	48	64	10
Extreme highest each month (°F.)	81	88	103	109	120	123	122	123	118	112	97	86	123	12-13
Extreme lowest each month (°F.)	24	27	36	45	54	67	72	70	60	53	33	24	24	12-13
RELATIVE HUMIDITY														
Average percent (0600 G.m.t.)	77	75	59	45	33	25	25	29	33	39	60	75	48	10
CLOUD COVER														
Average amount (tenths) at 0600 G.m.t.	4.0	3.7	3.2	3.5	2.5	0.5	1.4	1.3	0.6	1.5	3.4	3.7	2.4	10
Less than 2/10 average amount (mean number of days)	14	13	16	14	19	29	25	25	28	22	13	14	232	10
More than 8/10 average amount (mean number of days)	8	7	5	5	4	1	3	3	1	1	4	6	48	10
PRECIPITATION														
Average amount (inches)	1.5	1.7	0.6	0.8	0.1	0.0	0.0	0.0	0.0	0.1	1.0	1.8	7.6	10
Maximum in 24 hours (inches)	1.1	1.4	0.8	1.2	0.7	0.0	0.0	0.0	Trace	0.5	2.2	2.3	2.3	10
0.04 inch or more (mean number of days)	6	5	3	3	1	0	0	0	0	0.4	3	4	25.4	10
WIND														
Direction (percentage of 0600 G.m.t. obs.):														
North	8	10	10	11	15	14	11	7	9	11	11	7	10	10
Northeast	11	8	5	7	8	2	0	2	4	5	11	12	6	10
East	10	7	8	9	4	1	1	2	1	3	5	8	5	10
Southeast	5	11	14	11	4	2	1	4	4	2	8	9	6	10
South	6	7	9	9	3	1	2	5	9	6	5	2	5	10
Southwest	3	4	6	10	8	4	5	10	6	11	5	4	6	10
West	29	24	22	12	15	24	29	23	30	24	20	29	24	10
Northwest	24	22	20	24	35	49	46	39	32	31	31	25	32	10
Calm	4	7	6	7	8	3	5	8	5	7	4	4	6	10
Mean wind velocity (knots)	6	6	7	6	7	10	10	7	6	5	5	5	7	6
34 knots or over (mean number of days)	0.1	0.3	0.1	0.3	0	0	0.1	0.2	0	0	0.1	0	1.2	10
VISIBILITY														
Days with visibility less than 1,100 yds.	0.4	0	0	0	0	0	0	0	0	0	0.2	0.8	1.4	5-6

AL BAŞRAH.—Lat. 30°34' N., long. 47°47' E., elevation 8 ft.

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Years of record
SEA LEVEL PRESSURE														
Average (millibars).....	1019	1017	1015	1012	1007	1002	998	999	1005	1013	1017	1019	1010	15
TEMPERATURE														
Average (°F.).....	52	57	65	75	85	91	93	93	88	78	67	56	75	19
Average daily maximum (°F.).....	60	65	74	84	95	101	104	105	101	91	77	64	85	19
Average daily minimum (°F.).....	44	48	56	65	74	80	81	80	74	66	57	48	64	18
Extreme highest each month (°F.).....	81	87	95	109	115	119	123	121	117	114	98	85	123	36
Extreme lowest each month (°F.).....	24	28	36	47	48	69	66	68	45	45	36	29	24	36
RELATIVE HUMIDITY														
Average percent (0600 G.m.t.).....	83	75	66	57	50	50	47	46	48	52	70	83	61	15
Average percent (1200 G.m.t.).....	61	53	48	41	39	40	35	33	32	36	51	61	44	15
CLOUD COVER														
Average amount (eighths).....	3.3	2.8	3.1	3.2	2.2	0.4	0.8	0.6	0.3	1.2	2.8	3.2	2.0	15
Equal to or less than 1/8 average amount (mean number of days).....	13	14	13	12	19	28	26	28	29	24	14	12	232	15
Equal to or more than 1/8 average amount (mean number of days).....	5	3	4	4	2	0	0	0	0	1	3	4	26	15
PRECIPITATION														
Average amount (inches).....	1.37	1.15	1.06	0.48	0.29	0.00	0.00	0.00	0.09	0.05	0.73	1.20	6.42	20
Greatest amount (inches).....	7.52	3.42	3.32	1.48	1.72	0.03	0.06	0.00	1.28	0.82	7.64	4.15	13.85	25-30
Least amount (inches).....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.08	25-30
Maximum in 24 hours (inches).....	1.53	1.37	2.00	3.45	1.40	0.00	0.13	Trace	0.94	0.28	3.10	1.73	3.45	27
0.01 inch or more (mean number of days).....	3	3	2	2	0.7	0	0	0	0.2	0.2	2	3	16.1	20
WIND														
Direction (percentage of 0500 obs.):														
North.....	9	9	8	10	14	7	6	3	6	9	15	8	9	10-11
Northeast.....	6	8	9	8	6	2	1	1	2	3	7	6	5	10-11
East.....	13	14	13	9	3	1	2	1	6	7	9	16	8	10-11
Southeast.....	9	6	9	8	4	0	1	3	1	5	8	6	5	10-11
South.....	7	7	7	7	6	2	1	3	5	11	6	3	5	10-11
Southwest.....	6	5	7	5	8	5	6	6	7	8	8	3	6	10-11
West.....	24	24	17	17	22	38	50	46	36	30	25	30	30	10-11
Northwest.....	17	17	17	17	24	39	25	29	26	17	16	17	22	10-11
Calm.....	9	10	13	19	13	6	8	8	11	10	6	11	10	10-11
Mean wind speed (0500 obs.) in knots.....	5	5	5	5	5	7	6	5	5	5	4	4	5	10-11
Direction (percentage of 1600 obs.):														
North.....	7	10	12	18	14	6	10	8	12	11	10	7	10	10-11
Northeast.....	3	2	2	5	3	0	0	0	0	4	7	4	3	10-11
East.....	9	10	8	9	4	0	1	3	3	10	12	10	7	10-11
Southeast.....	14	12	13	13	2	1	2	1	2	7	10	9	7	10-11
South.....	5	4	7	1	1	0	0	0	1	4	2	3	2	10-11
Southwest.....	1	1	1	0	0	0	0	0	0	2	1	0	1	10-11
West.....	28	26	19	15	26	37	42	35	22	22	23	29	27	10-11
Northwest.....	28	32	34	36	47	54	44	51	55	35	28	28	39	10-11
Calm.....	5	3	4	3	3	2	1	2	5	5	7	10	4	10-11
Mean wind speed (1600 obs.) in knots.....	8	9	10	9	8	6	9	8	6	7	4	6	7	10-11
34 knots or over (mean number of days).....	0	0	0	0	0	0	0	0	0	0	0	0	0	15
VISIBILITY														
Days with visibility less than 1 km.....	2.7	2.0	0.5	0.2	0.1	0	0	0	0.3	0.7	1.8	3.4	11.7	15

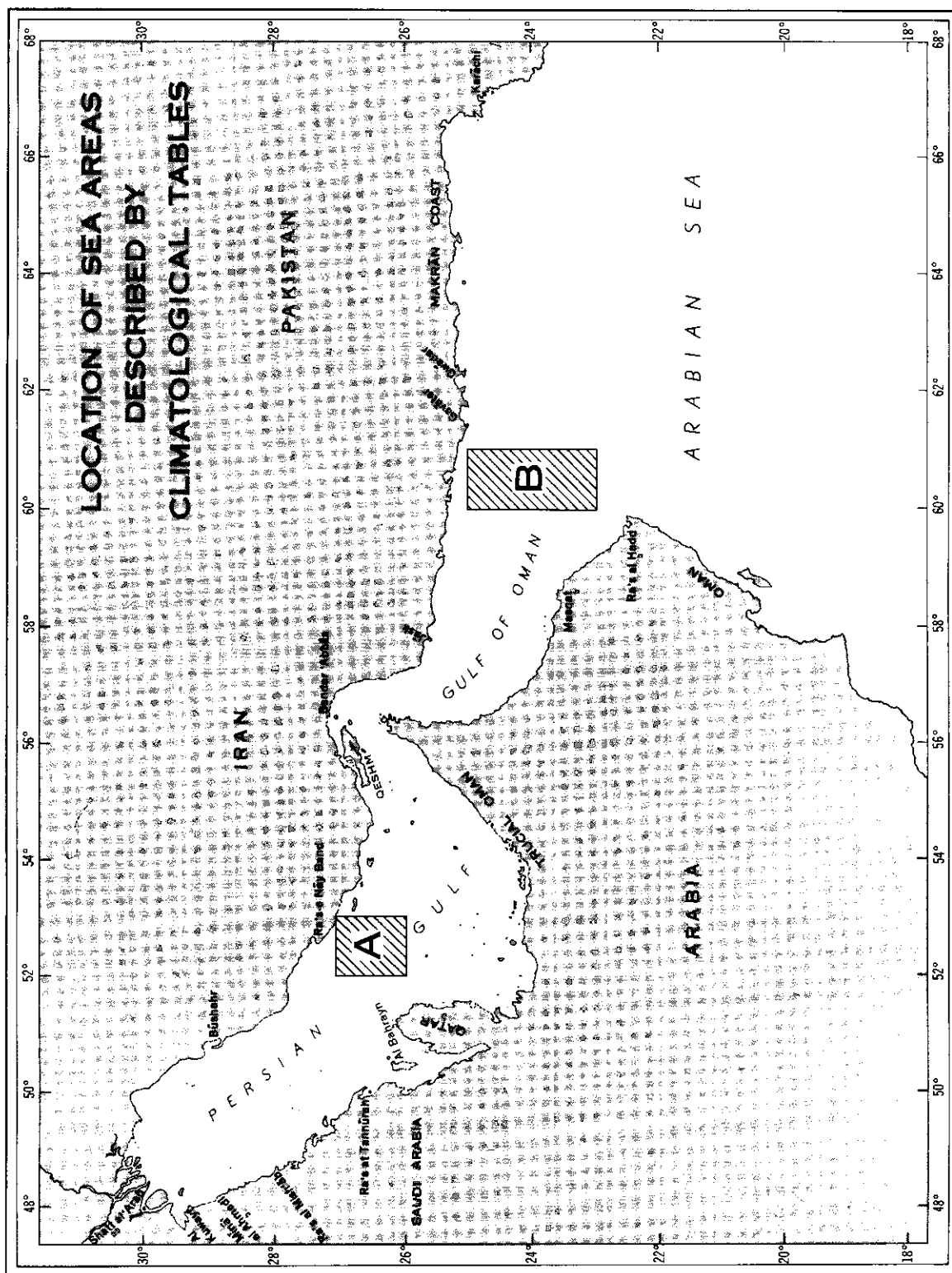


Figure 29

SEA AREA A

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Pressure, sea level pressure (millibars).....	1014	1012	1010	1007	1002	996	993	996	1001	1009	1013	1014
Median	1017	1015	1012	1009	1004	998	995	998	1003	1011	1015	1016
1/4 of obs. >	1019	1018	1015	1011	1006	1001	997	1000	1005	1013	1017	1019
Temperature, air (°F.).....	65	65	68	74	80	85	88	90	88	84	77	70
Median	68	68	72	76	82	87	90	92	90	86	81	73
1/4 of obs. >	71	70	74	79	85	89	91	93	92	88	83	70
Temperature, mean sea surface °F.....	72	71	72	75	81	86	89	92	91	87	82	76
Precipitation												
Percent of observations with precipitation.....	6.1	4.2	1.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	3.5	4.4
Cloudiness												
Percent of observations with.....	65.4	67.0	52.8	73.3	85.7	94.2	88.2	93.7	93.0	93.3	75.4	52.7
Median	80.1	75.7	64.4	82.7	90.1	96.8	92.5	97.4	97.1	96.4	85.4	68.3
1/4 of obs. >	88.5	83.2	73.0	89.6	93.1	98.4	96.3	98.9	99.4	99.6	95.9	85.5
Visibility												
Percent of observations.....	0.0	0.4	0.7	0.0	0.3	0.7	0.8	0.4	0.0	0.0	0.0	0.4
1/4 of obs. >	0.0	0.4	1.1	0.0	0.3	1.8	3.5	1.5	0.0	0.0	0.4	1.1

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

SEA AREA B

Weather elements	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Pressure, sea level pressure (millibars).....	1015	1012	1011	1007	1002	995	996	997	1001	1008	1013	1014
Median	1017	1014	1013	1009	1004	998	998	999	1004	1010	1015	1016
1/4 of obs. >	1019	1015	1015	1011	1006	1001	1000	1002	1006	1013	1016	1017
Temperature, air (°F.).....	70	70	72	78	82	83	81	78	78	80	76	72
Median	72	72	75	80	83	85	83	80	79	81	79	74
1/4 of obs. >	74	75	78	82	85	87	84	82	81	84	80	77
Temperature, mean sea surface °F.....	74	74	76	80	83	86	84	82	81	82	80	77
Precipitation												
Percent of observations with precipitation.....	0.0	2.1	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0
Cloudiness												
Percent of observations with.....	69.8	75.7	72.5	81.8	70.4	65.5	42.3	51.1	50.0	94.3	76.9	66.0
Median	83.7	83.8	82.5	87.3	88.9	75.9	53.8	68.1	65.6	97.1	100.0	88.1
1/4 of obs. >	95.3	89.2	90.0	98.2	92.6	79.3	61.5	80.9	78.1	97.1	100.0	100.0
Visibility												
Percent of observations.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0
1/4 of obs. >	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0

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

APPENDIX III

GLOSSARIES

ARABIC

A

Abbou, abou, abo,	Father of; large.
abu, ab, bou (part of proper name).	
Ābār	Wells.
Abiad	White.
Abiar	Wells.
Abyadh	White.
'Adan (plu. adanat)	Light shifting sand.
Aeg	Sand dune.
Agha	Lord.
Ahal	Black.
Ahel	People, coast.
Ahl (part of place name).	Country, community.
Ahmer	Red.
Aich, aik	Hard bank.
Ain	Eye, spring or well.
Air	Fortress (old).
Akdar, akdhar	Green.
'Ajāj	Sand storm.
Al	Definite article <i>the</i> .
Alā	Height.
A'lā	Higher, upper.
Alfa	Esparto grass.
Alou	Height.
Amala	Province.
'Amara, 'Imāra	Building, inhabited place.
Amin	Village, chief place.
Amīr	Leader, prince.
Ar	Definite article <i>the</i> .
Arab (pl.)	Arabs.
Aradah	Earth.
Arasi	Gardens.
Arb'ayin	40-day wind from northwest.
Arbi (sing.)	Arab.
Ardh	Ground, land, region.
Areg	Sand dune.
Argoub	Hill, purple.
Arich	Boundary.
Arq, 'arq	Sand-dune hills, low hill, knoll.
Asar, atha, athr	Monument, ruins.
Asfel	Low.
Ash	Definite article <i>the</i> .
Asif	River.
Asraq	Blue.

Assaka	Settlement.
Aswad	Black.
Atlāl	Ruins.
Ayalat	Province.
'Ayn	Spring.
Ayoun	Spring.
Azraq	Blue.
Azrek	Blue.

B

Bab, báb	Entrance, narrow strait, gate.
Babur	Steamship.
Bādiyat	Desert.
Baghala	Type of dhow.
Bahara, bahar (pl.)	Dry, sandy watercourse.
Bahira	Lake, marshy spot.
Baḥr	Sea, lake, gulf, bay.
Baḥrat	Wadi, watercourse.
Baīdha	White.
Bait, buyūt (pl.)	House, building, tent.
Balad, bilād (pl.)	Town, district, country.
Balam Ashāri	River boat in use at Basra.
Balam nasāri	Small dhow used on lower Shatt al 'Arab.
Band	Embankment, dike.
Bandar, bender	Anchorage, harbor, port.
Bani	Tribe.
Bāriḥ al Thuraiya,	40-day northwesterly winds of
bāriḥ al Saráyāt,	Persian Gulf.
bāriḥ al Jauza, bāriḥ al kabīr.	
Bar	Territory, land, earth.
Barr	The desert.
Bassah	Marsh.
Batn	Depression, river bed.
Bawara	Heavy anchor used in Kuwait.
Bazar	Shopping center.
Bedoui	Bedouin.
Beduin	Desert nomad.
Begaa	Marshy depression.
Beida	White.
Bejir	Desert, wilderness.
Belad, bilad, bled	Country.
Beled	Town.
Berd	Cold.
Berr	Region.
Bid 'at	Canal, stream.

Bi'r, bir, bîr.....	Well.	Djouibil.....	Row of hills.
Birkat, birket.....	Pool, well, marsh, lake, pond.	Dōha, dauha, dohat, Bay.	
Bit.....	House.	duhat.	
Blida.....	Little town.	Draa.....	Chain of hills, ridge.
Borj, bordj.....	Bastion, fort.		E
Brazzia.....	Open country.	Erg.....	Sand dune.
Bu (abbr. of Abu).....	Father of, large.		F
Buḥayrat.....	Lake.	Faak.....	Gap, opening.
Bûm.....	Largest type of dhow built in Persian Gulf.	Faid, feid.....	Stream.
Burt.....	Tower, fort.	Fasht.....	Reef.
Butain.....	A wind from west and north-west.	Faydat.....	Salt flat, depression.
Butaira.....	Small seagoing dhow.	Fedj, feidj, feija.....	Mountain pass.
	C	Fum.....	Mouth of a valley.
Casbah.....	Citadel, fortress.		G
Chabah, chaïbah.....	Ravine.	Gaiet.....	Hummock.
Chebka, chebket.....	Cluster of hills.	Galāl.....	Stream.
Chedjra.....	Tree.	Galeh.....	Rocky mount.
Chegag.....	Ruin.	Gar, gara, garet.....	Small flat hill.
Chemal.....	South.	Ghab, ghaba.....	Forest.
Chergwin.....	Eastern.	Ghadîr.....	Waterhole(s).
Cherk, cherkh.....	East.	Ghar.....	Cave.
Chograne.....	Tree.	Gharab, gharb, gherb.....	West.
	D	Gharbi.....	Western.
Dahar.....	Peak.	Ghubba, ghubbah, Deepwater bay, inlet, gulf.	
Dahra, dhara.....	North.	ghubbat, ghubbet.	
Daïr.....	Monastery.	Gober.....	Tomb.
Dar.....	Stone house.	Golea.....	Small castle.
Dar el Islam.....	Mosque.	Gour.....	Small flat hill, hummock.
Darb.....	Road.	Guebli, guebla.....	South.
Dawhat.....	Bay.	Guennar.....	Peak.
Dechra, dechret, de-shera.	Village.	Guethob.....	Highland.
Dehar.....	Sloping land, ridge.		H
Dekhla.....	Gorge, pass.	Habia.....	Peak.
Dhala'a, dhila'a.....	Small prominent hill.	Habl, habil, hibal (pl.).....	Sandhill, sand dune country.
Diar.....	Plain, plateau.	Had, hadd.....	Sandspit, low sandy point, frontier, sharp.
Dihir.....	Coast.	Hadjara, hadjia.....	Stone.
Djal, jal.....	Small hill.	Hail.....	Fence, barrier.
Djama, jama.....	Mosque.	Hair, heir.....	Pearl bank.
Djebel, jebel.....	Hill, mountain.	Haït.....	Enclosure, wall.
Djeder, jeder.....	Wall.	Hajirah.....	Town, settlement.
Djemma, jemma.....	Mosque.	Hâla, hâlat.....	Dry or drying sandbank, sandy islet.
Djenub, djenoub.....	South.	Hamrâ.....	Red.
Djerid, jerid.....	Country of palms.	Hamri.....	Red clay.
Djeurf, jeurf, djorf, jorf.	Cliff, escarpment.	Hanouck, hanuk.....	Low.
Djezira, djizire, jezira, jizire.	Island.	Harrat, hariq.....	Lava flow.
Djizr, jizr.....	Bridge.	Hasâ.....	Pebbles.
Djouf, jouf.....	Dry.	Hassar.....	Rock.
		Hawr.....	Marsh, lake.

Hirsh.....	Forest.	Khawr, khōr, khaur, kaur, khowr.....	Channel, inlet, estuary, marsh, wadi.
Hisar, hissar.....	Fort.	Khirr(ah).....	Stream.
Hor, haur.....	Shallow, fresh, or brackish marsh.	Khuwair.....	Diminutive of Khor.
	I	Kibli.....	South.
Imara.....	Seat of a governor.	Kimmat.....	Peak.
Imi.....	Hill.	Ksar.....	Fortified village.
	J	Kubbat.....	Deepwater bay, inlet.
Jabal, jebel, jibāl, djebel.	Hill, mountain, island.	Kubr.....	Tomb.
Jabali, na'ashi.....	Wind blowing from mountains.	Kudia, koudia.....	Hillock, hill.
Jāddah.....	Causeway, high road.	Kūh.....	Hill, mountain, peak, range.
Jadwal.....	Stream, canal.	Kūt.....	Fort, town.
Jāl.....	Stony ridge.		L
Jāmi.....	Mosque.	Liwā'.....	Province.
Janūb.....	South.	Louzet.....	Narrow path.
Jazīrat, jazīra, jazīreh, jezirat, jeziret.	Island, islet, peninsula.		M
Jazāir.....	Plural of jazīrat.	Ma.....	Water.
Jibāl.....	Mountain(s), hill(s).	Maaleg.....	Desert.
Jibli.....	Southwesterly wind.	Mabara.....	Cemetery.
Jisr.....	Bridge.	Maden, maaden.....	Mine.
	K	Mafrag, mafraq.....	Fork junction.
Kabr, qabr.....	Tomb.	Maftūl.....	Tower.
Kad.....	Shoal.	Magder.....	Highland.
Kalaa.....	Fort.	Maghreb, Maghrib.....	West.
Kalig.....	Canals.	Maḥaṭṭat.....	Railroad station.
Kandi.....	Stream.	Maidan.....	Plain, open space.
Kana.....	Aqueduct.	Majen.....	Level.
Kānf.....	Stream.	Majra.....	Canal.
Kantra, kantara.....	Arch, bridge.	Makallā.....	Anchorage.
Karn.....	Mountaintop, peaked hill, point.	Makam.....	Place.
Kasbah.....	Citadel, fortress, town.	Makhfar.....	Police post.
Kasr, qasr.....	Castle, fort, palace.	Makhraj.....	Canal.
Kassar, qāsar.....	Above- or below-water rock, rocky islet.	Malka.....	Stream confluence.
Katah, katat.....	Rock, patch of rocks.	Mamarr.....	Pass.
Kaus.....	Damp southeasterly wind.	Mantakat.....	Zone.
Kebar, kebir.....	Large.	Maqām.....	Tomb, shrine.
Kechla.....	Barracks, citadel.	Marakat, maraqqat.....	Soft shoal.
Kef.....	Coast, rock, shore.	Markeb, merkeb.....	Sailing vessel, ship.
Kerkour.....	Ravine.	Marsa, mersa.....	Anchorage, port, harbor.
Khabārf.....	Marshes.	Mashriq.....	East.
Khabrat.....	Mudflat, spring, rainpool.	Matmor.....	Silo.
Khadara, khadrā.....	Green.	Mazār.....	Shrine.
Khalij.....	Gulf, bay, creek.	Mbarek.....	Holy.
Khaltj.....	Gulf, bay, estuary, river, canal.	Mdafi.....	Well.
Khanga, kheneg.....	Defile, mountain pass.	Mechta.....	Station.
Kharā'ib.....	Ruins.	Medan.....	Plain.
		Medina.....	Town.
		Mejez.....	Ferry.
		Mekalla.....	Camp.
		Menara.....	Minaret.
		Mensla.....	Channel.
		Merj, merdj.....	Meadow.

Merja, merdja.....	Swamp.	Rhourd, rhourde.....	Conspicuous dune.
Mesjid.....	Mosque.	Ribat.....	Fortified monastery, convent.
Meslek, mesret.....	Trail.	Rig.....	Reef, shoal, sandbank.
Milok.....	Level ground.	Rijlat.....	Stream, wadi.
Minā'.....	Port.	Rujm.....	Cairn, hill.
Minār, manār.....	Tower, minaret, lighthouse.	Ruūs.....	Plural of ras.
Mirjān.....	Coral.		
Misr.....	Capital.		S
Mizrab.....	Aqueduct, conduit.	Sabil.....	Spring, stream.
Moghreb.....	West.	Sabkha.....	Salt marsh, lake.
Moni, moniat, moniet.....	Dust clouds.	Sadd.....	Obstruction, barrier, dam.
Mutla'i.....	East wind.	Saghir, saghira, seghir.....	Small.
	N	Sahah, saheh.....	Desert.
Nahr.....	River, canal.	Sahel.....	Beach, coast, shore, riverbank.
Najwa.....	Shoal.	Ṣaḥrā.....	Desert.
Nakhla, nakhala.....	Date palm.	Sakhrat.....	Cliff.
Nakhil.....	Date grove.	Sakia.....	Irrigation canal.
Nakl, nakhl.....	Palm tree.	Sambúg.....	Pearling boat.
Nashi, na'ashi.....	Northeasterly wind.	Sebkha, sebkra.....	Salt lake.
Nba.....	Road.	Sedjaa.....	Muddy.
Niwat.....	Steep-to shoal, pearl bank, coral reef.	Sedjra.....	Tree.
Nuala, nouala.....	Hut.	Seguia.....	Irrigation canal.
	O	Seil.....	Torrent.
Ouarour.....	Steep mountain.	Sfer.....	Yellow.
Oued.....	River, stream.	Shab.....	Rocky shoal.
	Q	Shabka.....	Salt flat.
Qabr.....	Tomb.	Sha'ib.....	Wadi, stream.
Qadā'.....	Administrative district.	Shaikh, sheikh.....	Chief of tribe, elder, religious leader.
Qal'a, qal'at.....	Castle, fort.	Shamāl.....	Northwesterly wind.
Qalb.....	Hill.	Sharq.....	East.
Qalīb.....	Well, spring.	Shatt.....	Large fresh water river.
Qantārah.....	Bridge.	Sheb, shi'b.....	Reef.
Qarah.....	Isolated hill.	Sherm.....	Creek, small cove.
Qārat.....	Hill, cairn.	Shi'b.....	Wadi.
Qasār, qassār.....	Above-water rock, rocky islet.	Shu'ayb.....	Stream, wadi.
Qasr, qaṣr.....	Fort, castle.	Shur.....	Low clay hills.
Qauz.....	High round sand hill.	Shurtat.....	Police post.
Qulbān.....	Wells.	Sif, sifa.....	Coast, sandy beach.
Qūr.....	Hills.	Ṣū.....	Stream.
Quwayrat.....	Hill, mountain.	Ṣuhaili.....	Southwesterly wind.
	R	Sūq.....	Market place.
Rak, rakat, raq'at.....	Hard shoal.	Sūr.....	Wall, rampart.
Raml, ramla, rmel.....	Sand.	Surkh, sorkh.....	Red.
Ra's, ras.....	Cape, point, head, hill, peak.		T
Rasyf.....	Wharf.	Tabr.....	Canal.
Redjem.....	Grave, minaret, pile.	Tala, talaa.....	Rising land.
Rhaba.....	Forest.	Talha.....	Waterfall.
		Tall.....	Hillock, hill, mound.
		Tappah.....	Hill.
		Targa.....	Lake made by a dam.
		Taris, tris.....	Trail.

Teniet.....	Mountain top, path, small pass.	W	
Tilal.....	Hills.	Wad, wadi, wādī.....	Watercourse, riverbed, valley.
Touffik.....	Hamlet.	Wālī.....	Local governor.
Tulūl.....	Hills.		Z
Turba, turbat.....	Tomb.	Zab.....	Oasis (watered by a river).
	U	Zarqā.....	Blue.
Uad.....	River, stream.		The definite article is written either "al" or "el" according to pronunciation and is only written with a capital at the beginning of a place name. It is assimilated in pronunciation before d, dh, n, r, s, sh, t, and z.
Um, Umm.....	Mother of, used similarly to Abu; the "u" is often omitted and the "m" prefixed to the place name, e.g., "Magheir" from "Umm Gheir."		
'Uqlat.....	Well(s), rainpool.		

IRANIAN (PERSIAN)

	A		
Āb.....	River, inlet, bay, marsh, well.	Dar.....	Door, passage, channel.
Āb-rāh.....	Watercourse.	Darband.....	Gorge.
Abād.....	Inhabited place.	Darreh.....	Stream, valley, gorge, ravine.
Abū, abu.....	Father, possessor of.	Daryā.....	Sea, river.
'Alā.....	Height.	Daryācheh.....	Lake, marshy lake.
A'īā.....	Upper, higher.	Dasht.....	Desert, plain.
Anbar.....	Tank.	Deh.....	Village.
	B	Dehān.....	Mouth, opening, river mouth.
Bād-gīr.....	Wind tower.	Dīz, dez, dezh.....	Fort.
Bahr.....	Sea.		E
Band.....	Barrier, dike, embankment.	Emāmzādeh.....	Mosque, tomb, shrine.
Bandar.....	Harbor, sheltered anchorage, bay, landing place.		F
Batlag.....	Marsh.	Fānūs.....	Lighthouse.
Bīābān.....	Desert.	Forūd-gāh.....	Stopping place, airfield.
Berkeh, birkeh.....	Water tank, pool.		G
Bīsīm.....	Radio.	Gadik, gadūk.....	Pass.
Bu.....	Abbreviation of Abū.	Galāl.....	Stream.
Borj, burj.....	Tower, fort.	Gardan, gardaneh.....	Pass.
	C	Gharb.....	West.
Chāh.....	Well, spring, stream.	Gharbi.....	Western.
Cham.....	Stream, gorge.	Gil.....	Mud, clay.
Chashmeh.....	Spring, well.	Godār.....	Pass.
Chāy.....	Stream.		H
Cheng.....	Promontory, hill, mountain.	Had, hadd.....	Sandspit, low sandy point, frontier, boundary, edge.
Chigā.....	Hill.	Hāmūn.....	Salt waste, marshy lake.
	D	Hawr, howr.....	Marsh.
Dāgh.....	Mountain(s), hill(s).	Howz.....	Tank.
Dahaneh, dahāneh.....	Gorge, pass.		I
Dakhmeh.....	Burial caves.	Imām, emām.....	Religious leader, holy man.
Daqq.....	Salt flat, salt waste, marsh.	Ishān.....	Hill(s).

-Istan, -estān	Place of, inhabited by.	Qal'eh	Castle, fort.
Istgāh	Railroad station.	Qariyeh	Village.
J		Qolleh	Peak, hill, mountain.
Jabal, jebāl	Hill(s), mountain.	Quileh	Summit, hilltop.
Jazirat, jazīreh	Island, peninsula.	R	
Jū, jūy	Stream.	Ramlāt	Sandy area.
K		Ra's, rā's	Cape, point, head.
Kāl	Stream.	Resteh	Mountain range, hills.
Kalāt	Castle surmounting a hill.	Rīg	Sand, gravel, shallow flat sand-bank.
Kalleh	Peak, summit.	Rūd, rūdkhāneh	River, stream.
Kamar	Mountain, hill, ridge.	Rūstā	Village.
Kānī	Well.	S	
Kāravānsarā	Caravansary.	Sabz	Green.
Kaur	Stream.	Sar	Cape, peak, summit.
Kavīr	Salt desert, salt waste.	-Sār	(Place) abounding in.
Khāk	Dust, earth.	Sarāb	Spring.
Khalīj	Gulf, bay, estuary.	Sarāy	Caravansary.
Khān	Lord, inn.	Selseleh	Mountain range, mountains.
Khāneh	House.	Shahr	City, town.
Kharābeh, kharābehā	Ruins.	Shahrestān	District (subordinate to an ostān).
Khīr	Stream.	Shaikh	Chief of tribe, elder, religious leader.
Khōr, khowr, khūr	Inlet, stream, channel, bay, bight.	Shamāl	Northwesterly wind.
Kotal	Pass.	Sharki	Southeasterly wind.
Kowr	Stream.	Sharq	East.
Kūh	Mountains (s), range, hill, peak.	Shaṭṭ	Large fresh water river.
Kūhhā	Mountains, range, hills.	Shebh-e jazīreh	Peninsula.
Kūt	Fort, town.	Shekasteh	Mountain, hill.
L		Shīb	Descent, slope.
Lūt	Desert.	Shur	Clay hills.
M		Shūr	Stream.
Maidān-e-Taiyārat	Airfield.	Siāh	Black.
Masjid	Mosque.	Sitūn	Pillar, column.
Minār, manār	Tower, minaret, lighthouse.	-Stān	Place of, inhabited by.
N		Sūr	Wall, rampart.
Nahr	Stream, canal.	Surkh, sorkh	Red.
Namakzār	Salt waste.	T	
O		Tall	Hill, mountain.
Ostān	Province.	Tang	Gorge, stream, pass.
P		Tangeh	Strait, isthmus, defile.
Pal	Hill, mountain.	Tappeh	Hill, mountain.
Paskūh	Mountain range.	Turba, turbat	Tomb.
Poshteh	Hill, mountain.	Z	
Pul	Bridge, viaduct.	Zāhir	Apparent, conspicuous.
Q		-Zār	(Place) abounding in.
Qabr	Tomb.	Ziārāt	Shrine, tomb.
Qabrestān	Cemetery.	Zir	Under, below.

PAKISTANI

A		Kaur		Stream, river.
Āb	Water, spring.	Khāl	River.	
Ān	Pass.	Khand	Pass.	
B		Khor; khōr	Stream, river mouth, inlet.	
Bandar	Harbor.	Koh	Mountain, mountain range.	
Bil	Swamp, lake.	Kot	Fort.	
Bundar	Mud dike, embankment.	Kotal	Pass.	
C		Kūh	Hill, mountain.	
Chāh	Spring, well.	L		
Chakul	Spring.	Lak	Pass.	
Char	Island.	Lora	Stream.	
Chara	Stream.	N—P		
Chauki	Customhouse.	Nadī	Stream.	
D		Nai	Stream.	
Dar	Stream.	Nāla	Stream.	
Dasht	Desert, plain.	Narai	Pass.	
Dhand	Swamp.	Nāwar; nāwār	Lake.	
Dhār	Mountain range.	Nullah	Intermittent stream, gully.	
Dhor	Stream.	Padi	West.	
Dīmi	East.	R—S		
Doāb	Plain between rivers.	Ras	Cape, point.	
G—H		Rūd	River, stream.	
Gāng	Stream.	Sar (Sur)	Peak, summit, well.	
Ghar	Mountain, mountain range.	T		
Goth	Town, village.	Tangi	Gorge.	
Hāmūn	Salt lake, salt waste.	Tar	Well.	
Hāor	Lake.	Taung	Hill, mountain.	
Hōr	Swamp, fresh or brackish marsh.	Toba	Well.	
J		Toi	Stream.	
Jabal; jebel	Hill, mountain, island.	W—Z		
Jezirat	Island.	Wāh	Canal, stream.	
K		Zarr	Bay.	
Kalāt	Fort.	Ziārat	Tomb, shrine.	
Kand; kandao	Pass.			

HINDUSTĀNĪ

Ar	River.	Kari	River.
Balu Danda	Shoal, sandbank.	Karu	Point.
Bara Gam	Town.	Lanka	Island.
Chota Gam	Village.	Nadi	Creek.
Dip	Island.	Nulla	Creek.
Giri	Mountain, hill.	Pahar (par)	Mountain, hill.
Jinjira	Island.		

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