

CURRENTS IN SAN BERNARDINO STRAIT

By O. P. SUTHERLAND

Predictions by U. S. Coast and Geodetic Survey, Washington, D. C.



Current tables for San Bernardino Strait, at or about the time given in the column "Slack before ebb." He will then have approximately seven hours of favorable current to assist him on his passage.

The navigator leaving a port in the Philippine Islands, intending to pass from Samar Sea through San Bernardino Strait and into the Pacific Ocean, should time his departure from port so that he will arrive in the vicinity of Capul Island, at the entrance

to San Bernardino Strait, at or about the time given in the column "Slack before ebb." He will then have approximately seven hours of favorable current to assist him on his passage.

It should be remembered that the predicted currents are based on normal conditions. A strong northeast monsoon may delay the change in current as much as 30 minutes.

No attempt should be made to reconcile the predicted currents with the predicted tides. A letter, recently received at this office, from the Director of the U. S. Coast and Geodetic Survey at Washington, D. C., contains the following significant statement: "The currents in the vicinity of San Bernardino Strait are very complicated and any attempt to reconcile the high and low waters with the currents would naturally be unsuccessful."

Date 1928	Slack before ebb.	Maximum Time	ebb. Velocity	Slack before flood
April				
1	8:38 p.m.	11:52 p.m.	4.1 knots	2:30 a.m.
2	11:30 a.m.	9:32 p.m.	0.4 "	3:09 a.m.
	9:32 p.m.	12:27 p.m.	0.4 "	1:29 p.m.
3	11:18 a.m.	12:32 a.m.	4.4 "	3:38 a.m.
	10:18 p.m.	12:56 p.m.	1.5 "	2:46 p.m.
4	11:24 a.m.	1:08 a.m.	4.4 "	4:03 a.m.
	11:00 p.m.	1:29 p.m.	2.6 "	3:38 p.m.
5	11:33 a.m.	1:42 a.m.	4.2 "	4:23 a.m.
	11:40 p.m.	1:56 p.m.	3.4 "	4:21 p.m.
6	11:48 a.m.	2:15 a.m.	3.7 "	4:42 a.m.
		2:31 p.m.	4.0 "	5:02 p.m.
7	12:21 a.m.	2:47 a.m.	3.0 "	4:59 a.m.
	12:03 p.m.	3:02 p.m.	4.3 "	5:41 p.m.
8	1:07 a.m.	3:20 a.m.	2.1 "	5:14 a.m.
	12:20 p.m.	3:32 p.m.	4.4 "	6:20 p.m.
9	2:03 a.m.	3:51 a.m.	1.1 "	5:22 a.m.
	12:40 p.m.	4:03 p.m.	4.2 "	7:00 p.m.
10				4:20 a.m.
	1:04 p.m.	4:37 p.m.	3.8 "	7:44 p.m.
11				
	1:33 p.m.	5:21 p.m.	3.4 "	8:35 p.m.
12				
	2:13 p.m.	6:24 p.m.	2.8 "	9:38 p.m.
13				
	3:15 p.m.	7:50 p.m.	2.6 "	11:00 p.m.
14				
	4:54 p.m.	9:15 p.m.	2.7 "	
15				12:30 a.m.
16				
	6:40 p.m.	10:26 p.m.	3.3 "	1:24 a.m.
	7:58 p.m.	11:22 p.m.	3.9 "	
17				2:24 a.m.
	10:54 a.m.			1:35 p.m.
18				3:02 a.m.
	9:02 p.m.	12:13 p.m.	0.9 "	2:45 p.m.
	10:48 a.m.	12:09 a.m.	4.3 "	3:39 p.m.
	9:58 p.m.	12:46 p.m.	2.2 "	4:00 a.m.
19				4:30 p.m.
	10:52 a.m.	12:52 a.m.	4.4 "	4:22 a.m.
	10:53 p.m.	1:19 p.m.	3.5 "	5:20 p.m.
20				4:37 a.m.
	11:03 a.m.	1:32 a.m.	4.0 "	6:12 p.m.
	11:49 p.m.	1:53 p.m.	4.6 "	7:06 p.m.
21				
	11:20 a.m.	2:11 a.m.	3.2 "	
		2:29 p.m.	5.6 "	
22				
	12:51 a.m.	2:50 a.m.	2.0 "	
	11:42 a.m.	3:07 p.m.	6.1 "	
23				
	2:11 a.m.	3:29 a.m.	0.8 "	
	12:10 p.m.	3:48 p.m.	6.1 "	
24				
	12:43 p.m.	4:36 p.m.	5.8 "	



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25	1:23 p.m.	5:32 p.m.	5.0 "	9:04 p.m.	30	9:13 a.m.	11:24 a.m.	2.0 "	12:40 a.m.
26	2:15 p.m.	6:38 p.m.	4.2 "	10:15 p.m.	31	9:25 p.m.	11:18 p.m.	1.4 "	2:01 p.m.
27	3:32 p.m.	7:52 p.m.	3.5 "	11:34 p.m.		9:22 a.m.			1:09 a.m.
28	5:24 p.m.	9:08 p.m.	3.0 "			10:29 p.m.	12:00 p.m.	3.2 "	2:54 p.m.
29	7:09 p.m.	10:18 p.m.	2.9 "		June				
30	8:26 p.m.	11:13 p.m.	2.9 "		1	9:37 a.m.	12:03 a.m.	1.1 "	1:35 a.m.
May						11:26 p.m.	12:35 p.m.	4.2 "	3:38 p.m.
1	10:16 a.m.	12:00 p.m.	1.3 "	2:08 a.m.	2	9:55 a.m.	12:44 a.m.	0.8 "	1:58 a.m.
	9:26 p.m.	11:58 p.m.	2.9 "	2:01 p.m.			1:10 p.m.	5.1 "	4:18 p.m.
2	10:18 a.m.			2:34 a.m.	3	12:24 a.m.	1:25 a.m.	0.5 "	2:20 a.m.
	10:17 p.m.	12:31 p.m.	2.6 "	2:58 p.m.		10:18 a.m.	1:43 p.m.	5.6 "	4:55 p.m.
3	10:28 a.m.	12:37 a.m.	2.8 "	2:56 a.m.	4	1:33 a.m.	2:00 a.m.	0.1 "	2:30 a.m.
	11:04 p.m.	1:02 p.m.	3.6 "	3:43 p.m.		10:42 a.m.	2:17 p.m.	5.9 "	5:34 p.m.
4	10:41 a.m.	1:12 a.m.	2.5 "	3:17 a.m.	5	11:09 a.m.			
	11:50 p.m.	1:33 p.m.	4.5 "	4:22 p.m.			2:52 p.m.	5.9 "	6:12 p.m.
5	10:57 a.m.	1:47 a.m.	2.0 "	3:35 a.m.	6	11:30 a.m.			
		2:05 p.m.	5.1 "	5:00 p.m.			3:28 p.m.	5.7 "	6:52 p.m.
6	12:40 a.m.	2:22 a.m.	1.4 "	3:52 a.m.	7				
	11:16 a.m.	2:37 p.m.	5.4 "	5:38 p.m.		12:10 p.m.	4:07 p.m.	5.4 "	7:34 p.m.
7	1:40 a.m.	2:57 a.m.	0.7 "	4:04 a.m.	8				
	11:36 a.m.	3:09 p.m.	5.4 "	6:16 p.m.		12:46 p.m.	4:53 p.m.	4.9 "	8:17 p.m.
8	12:00 p.m.	3:41 p.m.	5.1 "	6:56 p.m.	9				
9	12:27 p.m.	4:18 p.m.	4.7 "	7:39 p.m.			5:44 p.m.	4.3 "	9:03 p.m.
10	1:00 p.m.	5:03 p.m.	4.2 "	8:27 p.m.	10	2:24 p.m.	6:42 p.m.	3.7 "	9:49 p.m.
11	1:41 p.m.	6:02 p.m.	3.6 "	9:23 p.m.	11	3:42 p.m.	7:45 p.m.	3.0 "	10:36 p.m.
12	2:38 p.m.	7:13 p.m.	3.2 "	10:26 p.m.	12				
13	4:05 p.m.	8:29 p.m.	3.0 "	11:33 p.m.		5:30 p.m.	8:51 p.m.	2.3 "	11:20 p.m.
14						8:32 a.m.	10:13 a.m.	1.1 "	
15	5:56 p.m.	9:39 p.m.	3.0 "	12:32 a.m.		7:28 p.m.	9:59 p.m.	1.7 "	12:03 p.m.
	10:08 a.m.	11:00 a.m.	0.3 "	11:52 a.m.	13	8:29 a.m.	11:02 a.m.	2.6 "	12:00 a.m.
	7:34 p.m.	10:41 p.m.	3.0 "	1:19 a.m.		9:17 p.m.	11:02 p.m.	1.1 "	1:42 p.m.
16	9:42 a.m.	11:39 a.m.	1.8 "	1:43 p.m.	14	8:42 a.m.	11:47 a.m.	4.2 "	12:34 a.m.
	8:54 p.m.	11:34 p.m.	2.9 "	1:57 a.m.		10:52 p.m.	11:57 p.m.	0.6 "	2:50 p.m.
17	9:42 a.m.			2:49 p.m.	15	9:04 a.m.			1:00 p.m.
	10:05 p.m.	12:16 p.m.	3.3 "	2:49 p.m.			12:30 p.m.	5.7 "	3:46 p.m.
18	9:52 a.m.	12:23 a.m.	2.5 "	2:22 a.m.	16				12:30 a.m.
	11:13 p.m.	12:52 p.m.	4.8 "	3:43 p.m.		9:34 a.m.		6.8 "	4:38 p.m.
19	10:11 a.m.	1:07 a.m.	1.9 "	2:51 a.m.	17		1:11 p.m.		
		1:30 p.m.	6.1 "	4:35 p.m.	18	10:10 a.m.			
20	12:24 a.m.	1:49 a.m.	1.1 "	3:10 a.m.			1:54 p.m.	7.4 "	5:28 p.m.
	10:36 a.m.	2:09 p.m.	6.9 "	5:26 p.m.	19	10:49 a.m.			
21	1:55 a.m.	2:31 a.m.	0.2 "	3:04 a.m.			2:38 p.m.	7.6 "	6:18 p.m.
	11:07 a.m.	2:50 p.m.	7.2 "	6:17 p.m.	20	11:31 a.m.			
22	11:42 a.m.			7:09 p.m.			3:23 p.m.	7.2 "	7:04 p.m.
		3:34 p.m.	7.0 "	8:01 p.m.	21				
23	12:20 p.m.	4:24 p.m.	6.4 "	8:54 p.m.		12:15 p.m.	4:10 p.m.	6.5 "	7:48 p.m.
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25	2:00 p.m.	6:16 p.m.	4.4 "	10:39 p.m.	23				
26	3:11 p.m.	7:19 p.m.	3.5 "	11:17 p.m.		1:52 p.m.	5:50 p.m.	4.4 "	9:04 p.m.
27	4:50 p.m.	8:24 p.m.	2.7 "		24				
28	6:38 p.m.	9:27 p.m.	2.1 "			2:53 p.m.	6:41 p.m.	3.3 "	9:37 p.m.
	9:15 a.m.	10:41 a.m.	0.7 "	12:07 a.m.	25				
	8:12 p.m.	10:27 p.m.	1.7 "	12:32 p.m.		4:15 p.m.	7:35 p.m.	2.3 "	10:05 p.m.
29					26	8:02 a.m.	8:46 a.m.	0.2 "	9:30 a.m.
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									10:20 p.m.
					29	8:29 a.m.	11:28 a.m.	3.4 "	2:40 p.m.
					30	8:53 a.m.			
							12:09 p.m.	4.3 "	3:26 p.m.

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