



**Mareas de Cabo Gracias a Dios  Enero 2017**

FECHA	HORA	ALTURA	FECHA	HORA	ALTURA	FECHA	HORA	ALTURA
		h m (pies)			h m (pies)			h m (pies)
1 Dom	04:05	0.0	11 Mie	00:56	-0.4	21 Sab	04:16	1.2
	11:17	1.5		08:21	1.7		09:45	0.2
	16:51	-0.1		13:53	-0.3		16:27	1.0
	23:43	1.3		20:42	1.3		21:43	0.1
2 Lun	04:49	0.0	12 Jue	01:51	-0.4	22 Dom	05:11	1.2
	11:58	1.5		09:13	1.7		10:42	0.2
	17:31	-0.1		14:44	-0.3		17:23	1.1
		21:35		1.4	22:35		0.0	
3 Mar	00:28	1.3	13 Vie	02:43	-0.4	23 Lun	06:04	1.3
	05:38	0.0		10:02	1.7		11:35	0.1
	12:44	1.4		15:32	-0.3		18:16	1.1
	18:16	-0.1		22:25	1.4		23:25	0.0
4 Mie	01:18	1.3	14 Sab	03:34	-0.4	24 Mar	06:52	1.4
	06:33	0.0		10:50	1.6		12:24	0.1
	13:35	1.4		16:18	-0.3		19:06	1.1
	19:04	-0.1		23:14	1.4			
5 Jue	02:13	1.3	15 Dom	04:24	-0.3	25 Mie	00:13	0.0
	07:34	0.0		11:36	1.5		07:37	1.4
	14:32	1.3		17:03	-0.3		13:08	0.0
	19:59	-0.1					19:52	1.2
6 Vie	03:14	1.4	16 Lun	00:02	1.3	26 Jue	00:58	-0.1
	08:42	0.0		05:13	-0.2		08:18	1.5
	15:35	1.3		12:21	1.4		13:50	0.0
	20:57	-0.1		17:47	-0.2		20:35	1.2
7 Sab	04:19	1.4	17 Mar	00:50	1.3	27 Vie	01:42	-0.1
	09:52	0.0		06:03	-0.1		08:58	1.5
	16:40	1.2		13:06	1.3		14:29	-0.1
	21:59	-0.2		18:31	-0.1		21:17	1.3
8 Dom	05:24	1.5	18 Mie	01:38	1.3	28 Sab	02:24	-0.1
	10:59	-0.1		06:55	0.0		09:38	1.6
	17:46	1.2		13:52	1.2		15:08	-0.1
	23:00	-0.2		19:16	-0.1		21:58	1.3
9 Lun	06:26	1.6	19 Jue	02:29	1.2	29 Dom	03:06	-0.1
	12:02	-0.2		07:49	0.1		10:17	1.6
	18:49	1.3		14:41	1.1		15:46	-0.1
	23:59	-0.3		20:03	0.0		22:39	1.4
10 Mar	07:25	1.7	20 Vie	03:22	1.2	30 Lun	03:50	-0.2
	12:59	-0.2		08:46	0.1		10:58	1.6
	19:47	1.3		15:33	1.1		16:25	-0.2
				20:52	0.0		23:22	1.4
						31 Mar	04:35	-0.1
							11:41	1.5
							17:06	-0.2

Las mareas están referidas al nivel promedio de mareas bajas de sicigia. Coordenadas 15°00'N 83° 10'W

Mareas de Puerto Cabezas  Enero 2017

FECHA	HORA	ALTURA	FECHA	HORA	ALTURA	FECHA	HORA	ALTURA
	h m	(pies)		h m	(pies)		h m	(pies)
1 Dom	01:43	1.3	11 Mie	04:39	-0.4	21 Sab	00:35	0.0
	07:48	0.0		11:03	1.7		06:58	1.2
	13:59	1.5		17:36	-0.3		13:28	0.2
	20:34	-0.1		23:24	1.3		19:09	1.0
2 Lun	02:25	1.3	12 Jue	05:34	-0.4	22 Dom	01:26	0.1
	08:32	0.0		11:55	1.7		07:53	1.2
	14:40	1.5		18:27	-0.3		14:25	0.2
	21:14	-0.1					20:05	1.0
3 Mar	03:10	1.3	13 Vie	00:17	1.3	23 Lun	02:18	0.0
	09:21	0.0		06:26	-0.4		08:46	1.3
	15:26	1.4		12:44	1.7		15:18	0.1
	21:59	-0.1		19:15	-0.3		20:58	1.1
4 Mie	04:00	1.3	14 Sab	01:07	1.4	24 Mar	03:08	0.0
	10:16	0.0		07:17	-0.4		09:34	1.3
	16:17	1.4		13:32	1.6		16:07	0.1
	22:47	-0.1		20:01	-0.3		21:48	1.1
5 Jue	04:55	1.3	15 Dom	01:56	1.3	25 Mie	03:56	0.0
	11:17	0.0		08:07	-0.3		10:19	1.4
	17:14	1.3		14:18	1.5		16:51	0.0
	23:42	-0.1		20:46	-0.3		22:34	1.2
6 Vie	05:56	1.3	16 Lun	02:44	1.3	26 Jue	04:41	-0.1
	12:25	0.0		08:56	-0.2		11:00	1.5
	18:17	1.2		15:03	1.4		17:33	0.0
				21:30	-0.2		23:17	1.2
7 Sab	00:40	-0.1	17 Mar	03:32	1.3	27 Vie	05:25	-0.1
	07:01	1.4		09:46	-0.1		11:40	1.5
	13:35	0.0		15:48	1.3		18:12	-0.1
	19:22	1.2		22:14	-0.1		23:59	1.3
8 Dom	01:42	-0.2	18 Mie	04:20	1.2	28 Sab	06:07	-0.1
	08:06	1.5		10:38	0.0		12:20	1.5
	14:42	-0.1		16:34	1.2		18:51	-0.1
	20:28	1.2		22:59	-0.1			
9 Lun	02:43	-0.2	19 Jue	05:11	1.2	29 Dom	00:40	1.3
	09:08	1.6		11:32	0.1		06:49	-0.1
	15:45	-0.2		17:23	1.1		12:59	1.5
	21:31	1.2		23:46	0.0		19:29	-0.1
10 Mar	03:42	-0.3	20 Vie	06:04	1.2	30 Lun	01:21	1.3
	10:07	1.6		12:29	0.1		07:33	-0.2
	16:42	-0.2		18:15	1.1		13:40	1.5
	22:29	1.3					20:08	-0.2
Las mareas están referidas al nivel promedio de mareas bajas de sicigia.Coordenadas 14°01'N83°23'W						31 Mar	02:04	1.4
							08:18	-0.1
							14:23	1.5
							20:49	-0.2

**Mareas de Cayos de Perlas  Enero 2017**

FECHA	HORA	ALTURA	FECHA	HORA	ALTURA	FECHA	HORA	ALTURA
	h m	(pies)		h m	(pies)		h m	(pies)
1 Dom	03:31	1.0	11 Mie	00:17	1.1	21 Sab	01:57	0.0
	09:10	0.0		06:01	-0.3		08:46	1.0
	15:47	1.2		12:51	1.4		14:50	0.1
	21:56	0.0		18:58	-0.2		20:57	0.8
2 Lun	04:13	1.0	12 Jue	01:12	1.1	22 Dom	02:48	0.0
	09:54	0.0		06:56	-0.3		09:41	1.0
	16:28	1.2		13:43	1.4		15:47	0.1
	22:36	0.0		19:49	-0.3		21:53	0.8
3 Mar	04:58	1.0	13 Vie	02:05	1.1	23 Lun	03:40	0.0
	10:43	0.0		07:48	-0.3		10:34	1.0
	17:14	1.2		14:32	1.4		16:40	0.1
	23:21	-0.1		20:37	-0.3		22:46	0.9
4 Mie	05:48	1.1	14 Sab	02:55	1.1	24 Mar	04:30	0.0
	11:38	0.0		08:39	-0.3		11:22	1.1
	18:05	1.1		15:20	1.3		17:29	0.1
				21:23	-0.3		23:36	0.9
5 Jue	00:09	-0.1	15 Dom	03:44	1.1	25 Mie	05:18	0.0
	06:43	1.1		09:29	-0.2		12:07	1.1
	12:39	0.0		16:06	1.2		18:13	0.0
	19:02	1.1		22:08	-0.2			
6 Vie	01:04	-0.1	16 Lun	04:32	1.1	26 Jue	00:22	1.0
	07:44	1.1		10:18	-0.2		06:03	0.0
	13:47	0.0		16:51	1.2		12:48	1.2
	20:05	1.0		22:52	-0.2		18:55	0.0
7 Sab	02:02	-0.1	17 Mar	05:20	1.0	27 Vie	01:05	1.0
	08:49	1.2		11:08	-0.1		06:47	-0.1
	14:57	0.0		17:36	1.1		13:28	1.2
	21:10	1.0		23:36	-0.1		19:34	-0.1
8 Dom	03:04	-0.1	18 Mie	06:08	1.0	28 Sab	01:47	1.0
	09:54	1.2		12:00	0.0		07:29	-0.1
	16:04	-0.1		18:22	1.0		14:08	1.3
	22:16	1.0					20:13	-0.1
9 Lun	04:05	-0.2	19 Jue	00:21	0.0	29 Dom	02:28	1.1
	10:56	1.3		06:59	1.0		08:11	-0.1
	17:07	-0.1		12:54	0.1		14:47	1.3
	23:19	1.0		19:11	0.9		20:51	-0.1
10 Mar	05:04	-0.2	20 Vie	01:08	0.0	30 Lun	03:09	1.1
	11:55	1.3		07:52	1.0		08:55	-0.1
	18:04	-0.2		13:51	0.1		15:28	1.3
				20:03	0.9		21:30	-0.1
Las mareas están referidas al nivel promedio de mareas bajas de sicigia. Coordenadas 12°25'N 83°25'W						31 Mar	03:52	1.1
							09:40	-0.1
							16:11	1.2
							22:11	-0.1




Mareas de Isla del Maiz Grande  Enero 2017

FECHA	HORA	ALTURA	FECHA	HORA	ALTURA	FECHA	HORA	ALTURA
	h m	(pies)		h m	(pies)		h m	(pies)
1 Dom	03:16	1.0	11 Mie	00:02	1.1	21 Sab	01:37	0.0
	08:50	0.0		05:41	-0.3		08:31	1.0
	15:32	1.2		12:36	1.4		14:30	0.1
	21:36	0.0		18:38	-0.2		20:42	0.8
2 Lun	03:58	1.0	12 Jue	00:57	1.1	22 Dom	02:28	0.0
	09:34	0.0		06:36	-0.3		09:26	1.0
	16:13	1.2		13:28	1.4		15:27	0.1
	22:16	0.0		19:29	-0.3		21:38	0.8
3 Mar	04:43	1.0	13 Vie	01:50	1.1	23 Lun	03:20	0.0
	10:23	0.0		07:28	-0.3		10:19	1.0
	16:59	1.2		14:17	1.4		16:20	0.1
	23:01	-0.1		20:17	-0.3		22:31	0.9
4 Mie	05:33	1.1	14 Sab	02:40	1.1	24 Mar	04:10	0.0
	11:18	0.0		08:19	-0.3		11:07	1.1
	17:50	1.1		15:05	1.3		17:09	0.1
	23:49	-0.1		21:03	-0.3		23:21	0.9
5 Jue	06:28	1.1	15 Dom	03:29	1.1	25 Mie	04:58	0.0
	12:19	0.0		09:09	-0.2		11:52	1.1
	18:47	1.1		15:51	1.2		17:53	0.0
				21:48	-0.2			
6 Vie	00:44	-0.1	16 Lun	04:17	1.1	26 Jue	00:07	1.0
	07:29	1.1		09:58	-0.2		05:43	0.0
	13:27	0.0		16:36	1.2		12:33	1.2
	19:50	1.0		22:32	-0.2		18:35	0.0
7 Sab	01:42	-0.1	17 Mar	05:05	1.0	27 Vie	00:50	1.0
	08:34	1.2		10:48	-0.1		06:27	-0.1
	14:37	0.0		17:21	1.1		13:13	1.2
	20:55	1.0		23:16	-0.1		19:14	-0.1
8 Dom	02:44	-0.1	18 Mie	05:53	1.0	28 Sab	01:32	1.0
	09:39	1.2		11:40	0.0		07:09	-0.1
	15:44	-0.1		18:07	1.0		13:53	1.3
	22:01	1.0					19:53	-0.1
9 Lun	03:45	-0.2	19 Jue	00:01	0.0	29 Dom	02:13	1.1
	10:41	1.3		06:44	1.0		07:51	-0.1
	16:47	-0.1		12:34	0.1		14:32	1.3
	23:04	1.0		18:56	0.9		20:31	-0.1
10 Mar	04:44	-0.2	20 Vie	00:48	0.0	30 Lun	02:54	1.1
	11:40	1.3		07:37	1.0		08:35	-0.1
	17:44	-0.2		13:31	0.1		15:13	1.3
				19:48	0.9		21:10	-0.1
						31 Mar	03:37	1.1
							09:20	-0.1
							15:56	1.2
							21:51	-0.1

Las mareas están referidas al nivel promedio de mareas bajas de sicigia. Coordenadas 12° 10'N 83° 03'W

Mareas de Bluefields  Enero 2017

FECHA	HORA	ALTURA	FECHA	HORA	ALTURA	FECHA	HORA	ALTURA
	h m	(pies)		h m	(pies)		h m	(pies)
1 Dom	02:32	0.6	11 Mie	04:55	-0.2	21 Sab	00:51	0.0
	08:04	0.0		11:52	0.8		07:47	0.6
	14:48	0.8		17:52	-0.2		13:44	0.1
	20:50	0.0					19:58	0.5
2 Lun	03:14	0.6	12 Jue	00:13	0.7	22 Dom	01:42	0.0
	08:48	0.0		05:50	-0.2		08:42	0.6
	15:29	0.7		12:44	0.8		14:41	0.1
	21:30	0.0		18:43	-0.2		20:54	0.5
3 Mar	03:59	0.6	13 Vie	01:06	0.7	23 Lun	02:34	0.0
	09:37	0.0		06:42	-0.2		09:35	0.6
	16:15	0.7		13:33	0.8		15:34	0.1
	22:15	0.0		19:31	-0.2		21:47	0.5
4 Mie	04:49	0.6	14 Sab	01:56	0.7	24 Mar	03:24	0.0
	10:32	0.0		07:33	-0.2		10:23	0.7
	17:06	0.7		14:21	0.8		16:23	0.0
	23:03	0.0		20:17	-0.2		22:37	0.6
5 Jue	05:44	0.7	15 Dom	02:45	0.7	25 Mie	04:12	0.0
	11:33	0.0		08:23	-0.1		11:08	0.7
	18:03	0.6		15:07	0.8		17:07	0.0
	23:58	0.0		21:02	-0.1		23:23	0.6
6 Vie	06:45	0.7	16 Lun	03:33	0.7	26 Jue	04:57	0.0
	12:41	0.0		09:12	-0.1		11:49	0.7
	19:06	0.6		15:52	0.7		17:49	0.0
				21:46	-0.1			
7 Sab	00:56	-0.1	17 Mar	04:21	0.6	27 Vie	00:06	0.6
	07:50	0.7		10:02	0.0		05:41	0.0
	13:51	0.0		16:37	0.7		12:29	0.8
	20:11	0.6		22:30	-0.1		18:28	0.0
8 Dom	01:58	-0.1	18 Mie	05:09	0.6	28 Sab	00:48	0.6
	08:55	0.7		10:54	0.0		06:23	-0.1
	14:58	0.0		17:23	0.6		13:09	0.8
	21:17	0.6		23:15	0.0		19:07	-0.1
9 Lun	02:59	-0.1	19 Jue	06:00	0.6	29 Dom	01:29	0.7
	09:57	0.8		11:48	0.0		07:05	-0.1
	16:01	-0.1		18:12	0.6		13:48	0.8
	22:20	0.6					19:45	-0.1
10 Mar	03:58	-0.1	20 Vie	00:02	0.0	30 Lun	02:10	0.7
	10:56	0.8		06:53	0.6		07:49	-0.1
	16:58	-0.1		12:45	0.1		14:29	0.8
	23:18	0.6		19:04	0.5		20:24	-0.1
Las mareas están referidas al nivel promedio de mareas bajas de sicigia. Coordenadas 12°00'N 83°42'W						31 Mar	02:53	0.7
							08:34	-0.1
							15:12	0.7
							21:05	-0.1

Mareas de San Juan de Nicaragua  Enero 2017

FECHA	HORA	ALTURA	FECHA	HORA	ALTURA	FECHA	HORA	ALTURA
		hm (pies)			hm (pies)			hm (pies)
1 Dom	02:41	0.6	11 Mie	05:31	-0.2	21 Sab	01:27	0.0
	08:40	0.0		12:01	0.8		07:56	0.6
	14:57	0.8		18:28	-0.2		14:20	0.1
	21:26	0.0					20:07	0.5
2 Lun	03:23	0.6	12 Jue	00:22	0.7	22 Dom	02:18	0.0
	09:24	0.0		06:26	-0.2		08:51	0.6
	15:38	0.7		12:53	0.8		15:17	0.1
	22:06	0.0		19:19	-0.2		21:03	0.5
3 Mar	04:08	0.6	13 Vie	01:15	0.7	23 Lun	03:10	0.0
	10:13	0.0		07:18	-0.2		09:44	0.6
	16:24	0.7		13:42	0.8		16:10	0.1
	22:51	0.0		20:07	-0.2		21:56	0.5
4 Mie	04:58	0.6	14 Sab	02:05	0.7	24 Mar	04:00	0.0
	11:08	0.0		08:09	-0.2		10:32	0.7
	17:15	0.7		14:30	0.8		16:59	0.0
	23:39	0.0		20:53	-0.2		22:46	0.6
5 Jue	05:53	0.7	15 Dom	02:54	0.7	25 Mie	04:48	0.0
	12:09	0.0		08:59	-0.1		11:17	0.7
	18:12	0.6		15:16	0.8		17:43	0.0
				21:38	-0.1		23:32	0.6
6 Vie	00:34	0.0	16 Lun	03:42	0.7	26 Jue	05:33	0.0
	06:54	0.7		09:48	-0.1		11:58	0.7
	13:17	0.0		16:01	0.7		18:25	0.0
	19:15	0.6		22:22	-0.1			
7 Sab	01:32	-0.1	17 Mar	04:30	0.6	27 Vie	00:15	0.6
	07:59	0.7		10:38	0.0		06:17	0.0
	14:27	0.0		16:46	0.7		12:38	0.8
	20:20	0.6		23:06	-0.1		19:04	0.0
8 Dom	02:34	-0.1	18 Mie	05:18	0.6	28 Sab	00:57	0.6
	09:04	0.7		11:30	0.0		06:59	-0.1
	15:34	0.0		17:32	0.6		13:18	0.8
	21:26	0.6		23:51	0.0		19:43	-0.1
9 Lun	03:35	-0.1	19 Jue	06:09	0.6	29 Dom	01:38	0.7
	10:06	0.8		12:24	0.0		07:41	-0.1
	16:37	-0.1		18:21	0.6		13:57	0.8
	22:29	0.6					20:21	-0.1
10 Mar	04:34	-0.1	20 Vie	00:38	0.0	30 Lun	02:19	0.7
	11:05	0.8		07:02	0.6		08:25	-0.1
	17:34	-0.1		13:21	0.1		14:38	0.8
	23:27	0.6		19:13	0.5		21:00	-0.1
						31 Mar	03:02	0.7
							09:10	-0.1
							15:21	0.7
							21:41	-0.1

Las mareas están referidas al nivel promedio de mareas bajas de sicigia. Coordenadas 10°55'N 83°42'W