



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES
División Marítimo Portuaria
Dirección de Infraestructura

Apdo. 10176-1000, San José, Costa Rica Tel. DMP: (506) 2233 50 22 Tel Central MOPT: (506) 2523 20 00, Ext.: 2579 / 2580 Tel- Fax 2255-3854

***PRONÓSTICO DE LAS VELOCIDADES DE CORRIENTE DE
MAREA,
MUELLE PARA CRUCEROS DE PUNTARENAS,
COSTA RICA, AÑO 2010.***

PERIODO DEL PRONÓSTICO

Del 02 de Diciembre de 2009 al 31 de Enero de 2011.

PRESENTA:

G. Rodríguez

F. Mora

ABRIL, 2010

ANTECEDENTES:

La Dirección de Infraestructura de la División Marítimo Portuaria, ha realizado periódicamente el pronóstico de las velocidades de corrientes de marea para facilitar la operación en el Muelle de Cruceros de Puntarenas, Costa Rica. Estas proyecciones de corrientes se sustentan en el estudio denominado: “Reporte de mediciones y proyecciones de velocidades de corriente en el Muelle de Puntarenas”, realizado por el Ing. Luis Millán S., de la Unidad Ejecutora del “Proyecto Puntarenas por Siempre, Noviembre 1998”. Estudios anteriores como el SOGREAH (1955) y el realizado por el Dr. Luis Murillo de la Universidad de Costa Rica (1995) han realizado valiosos aportes sobre el comportamiento de las corrientes en la zona.

Por ser este un documento de consulta, sobre una variable pronosticada, su uso debe realizarse con precaución y no se asume responsabilidad en hechos futuros a causa del contenido del mismo.

El Ing. Millán con el apoyo de la Dirección de Infraestructura del MOPT, diseño una hoja electrónica para facilitar el pronóstico de las corrientes, mediante el conocimiento de los valores de la predicción de marea.

La Dirección de Infraestructura ha venido incorporando nuevas herramientas que facilitan los cálculos requeridos.

En el pasado se ha realizado el pronóstico de corrientes de marea para el mismo sitio, en los siguientes periodos:

- *2 de setiembre de 1999 al 6 de junio del 2000.*
- *16 de junio del 2000 al 11 de julio del 2001.*
- *22 de setiembre del 2001 al 6 de diciembre del 2002.*
- *2 de agosto del 2004 al 31 de diciembre del 2005.*
- *1 de enero del 2006 al 31 de diciembre del 2006.*
- *4 de diciembre del 2006 al 31 de enero del 2008.*
- *02 de diciembre del 2007 al 25 de enero del 2009.*
- *2 de diciembre del 2008 al 26 de enero del 2010.*

El pronóstico de la actual edición corresponde al período del 2 de diciembre de 2009 al 31 de enero de 2011.

CONSIDERACIONES TÉCNICAS GENERALES:

Se ha idealizado el comportamiento de las corrientes de marea, en función de las observaciones de corrientes realizadas en sitios cercanos al muelle, específicamente al centro del puente de acceso, localizado entre la plataforma de atraque y el primer duque de alba del Muelle para Cruceros de Puntarenas. Las mediciones de verificación se realizaron a una profundidad de 2,4 m bajo el nivel medio de mareas bajas de sicigias, que corresponde a 8,0 m desde el nivel de piso terminado del muelle actual.

Se aplicó la siguiente fórmula para estimar las corrientes en sus valores de pico máximo:

$$E = 0,2612H + 11,235 \text{ (cm/s)}$$

$$F = -0,7196E + 0,1889 \text{ (cm/s)}$$

Donde H es el rango de marea correspondiente a la diferencia entre la altura mínima anterior y la altura máxima posterior de los valores pico, usado para estimar la corriente máxima entrante (E) y la corriente máxima saliente (F).

Se idealizó una curva senoidal entre los valores picos máximos de corriente, para calcular los valores que mejor representan el comportamiento real de las corrientes, considerando las siguientes fases:

- La corriente entrante máxima se supone a la mitad entre la marea baja anterior y la marea alta posterior.
- La corriente saliente máxima se da aproximadamente dos horas después de la marea alta. Para el cálculo se considera $1/3$ del tiempo entre la marea alta anterior y la marea baja posterior.

Se ha demostrado a través de los estudios que la corriente entrante (dirección predominante del Este hacia el Oeste) tiene un valor superior a la saliente (dirección del Oeste hacia el Este). Además se determinó con las mediciones que las direcciones de la corriente se mantienen más o menos constantes durante el período que dure la corriente entrante y saliente, y que varía únicamente cuando se produce el cambio de una a otra, lo cual se efectúa de una manera muy rápida.

La distribución de las velocidades es aproximadamente del siguiente orden:

Velocidad (cm/s)	Porcentaje excedencia
20	53,9
55	28,6
75	12,6
102	4,5
130	0,4

Desde el punto de vista operativo, varios consultores de reconocimiento internacional han considerado que los valores de corriente indicados son moderados y no representan mayores problemas de maniobrabilidad.

La incertidumbre de los valores proyectados es la siguiente:

- Variación máxima esperada en tiempo: ± 1 hora
- Variación máxima esperada en magnitud: ± 10 cm/s

El valor máximo esperado de corrientes en el período de evaluación corresponde al día 11 de setiembre del 2010 a la 01:16 horas (a.m.), con 1,00 m/s (aproximadamente 2 nudos).

Se ha informado que cruceros en temporadas anteriores, han medido valores de corriente de hasta 3 a 4 nudos. Estas mediciones fueron hechas con el barco atracado, lo que distorsiona el valor real de la corriente sin barco, debido a que se disminuye la sección transversal del flujo. De esta forma, para un caudal constante, si se disminuye la sección transversal, necesariamente habrá un aumento en las velocidades registradas en puntos laterales y bajo el casco del barco. Si midiéramos las velocidades en los costados del barco, perpendiculares a su eje longitudinal, éstas tenderían a cero conforme el punto de medición se acerque al barco y aumentarían conforme el punto de medición se aleje hasta alcanzar un valor casi constante. Este efecto es poco importante si la dirección de la corriente es paralela al eje longitudinal del barco, o si la relación entre la profundidad y el calado es alta. Para el caso que nos ocupa, la situación es inversa, por tanto la distorsión en las mediciones es importante.

Las proyecciones de corriente que se han calculado consideran que no hay barco atracado. Los cruceros podrían verificar los valores de corriente indicados, cuando naveguen por el canal de acceso en la dirección paralela al flujo de la corriente.

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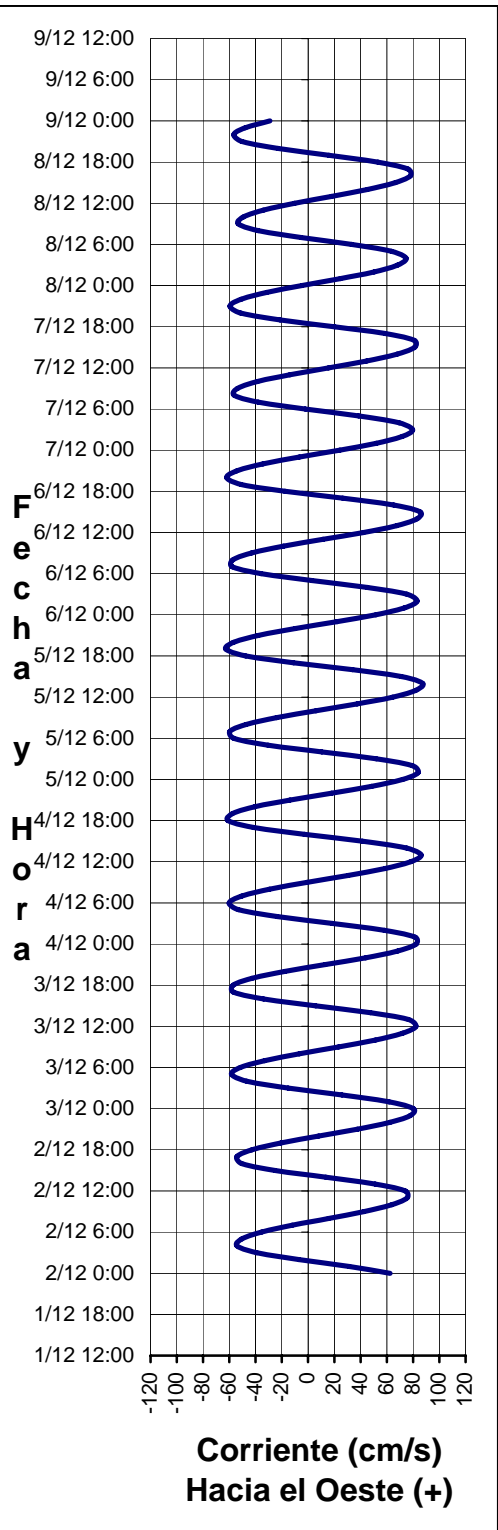
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 02/Dic/2009

Hasta 08/Dic/2009

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	02/12	03/12	04/12	05/12	06/12	07/12	08/12
1	4:10	4:58	0:32	1:21	2:12	3:05	4:00
	-54.5	-58.3	84.4	84.9	83.3	79.7	74.7
2	11:30	12:18	5:46	6:34	7:24	8:16	9:10
	77.1	82.8	-60.5	-60.9	-59.8	-57.1	-53.6
3	16:37	17:25	13:05	13:53	14:43	15:34	16:28
	-55.3	-59.4	86.2	87.5	86.5	83.3	79.4
4	23:43		18:14	19:04	19:55	20:49	21:45
	81.2		-61.8	-62.8	-62.0	-59.8	-57.0

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	02/12	03/12	04/12	05/12	06/12	07/12	08/12
00:00	62.5	80.2	82.4	72.1	51.6	24.2	-4.6
01:00	31.3	61.7	81.5	84.0	73.4	52.1	24.5
02:00	-6.9	25.7	58.1	79.5	83.0	71.8	50.4
03:00	-39.1	-15.2	18.4	52.0	75.1	79.6	68.3
04:00	-54.1	-46.8	-23.5	10.5	45.0	69.4	74.7
05:00	-50.5	-58.3	-53.0	-30.6	3.2	38.5	63.4
06:00	-35.4	-51.5	-60.2	-56.6	-35.7	-2.1	33.1
07:00	-12.0	-33.3	-50.5	-59.7	-57.7	-38.0	-5.3
08:00	15.7	-6.7	-29.4	-47.4	-57.4	-56.2	-37.9
09:00	42.6	23.2	-0.6	-24.1	-43.2	-53.7	-53.2
10:00	63.8	51.2	30.6	5.9	-18.8	-38.5	-49.4
11:00	75.5	72.1	58.6	37.3	11.5	-14.0	-34.1
12:00	74.1	82.2	78.3	64.4	42.1	15.5	-10.1
13:00	51.1	76.4	86.1	82.1	67.5	44.5	18.0
14:00	13.4	47.6	75.1	87.3	83.0	67.8	45.1
15:00	-25.2	5.8	41.4	71.1	85.4	81.2	66.5
16:00	-50.6	-33.9	-2.8	33.9	65.2	81.0	78.0
17:00	-54.3	-57.0	-41.7	-11.0	26.3	58.8	76.1
18:00	-42.9	-57.1	-61.1	-47.6	-17.6	20.2	53.2
19:00	-20.7	-42.7	-57.7	-62.7	-50.9	-21.4	15.8
20:00	8.0	-17.7	-40.8	-56.7	-62.0	-51.4	-23.2
21:00	37.6	13.1	-13.8	-37.9	-54.2	-59.6	-50.3
22:00	62.5	43.8	18.0	-9.8	-34.5	-51.0	-56.6
23:00	77.8	68.5	48.6	22.0	-6.6	-31.4	-47.8
00:00	80.2	82.4	72.1	51.6	24.2	-4.6	-29.0



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Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 09/Dic/2009

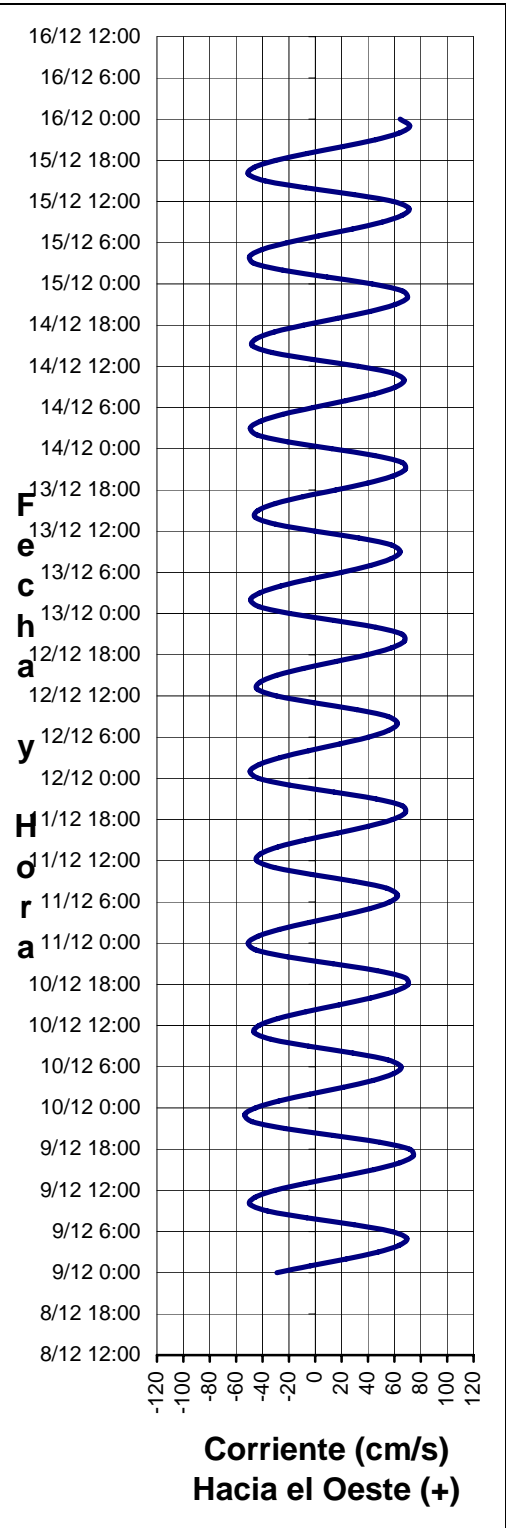
Hasta 15/Dic/2009

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	09/12	10/12	11/12	12/12	13/12	14/12	15/12
1	4:58	6:00	7:05	0:48	1:48	2:44	3:37
	69.5	65.0	62.4	-49.6	-49.2	-49.6	-50.6
2	10:07	11:08	12:12	8:09	9:10	10:07	10:58
	-49.8	-46.6	-44.7	62.4	64.5	67.4	71.0
3	17:25	18:25	19:26	13:15	14:16	15:13	16:04
	75.2	71.3	69.2	-44.7	-46.2	-48.3	-50.9
4	22:44	23:46		20:27	21:25	22:20	23:10
	-53.9	-51.1		68.7	69.2	70.5	71.8

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	09/12	10/12	11/12	12/12	13/12	14/12	15/12
00:00	-29.0	-45.3	-50.9	-43.1	-19.1	12.5	43.2
01:00	-3.7	-27.7	-43.4	-49.4	-42.8	-21.0	9.1
02:00	23.6	-4.0	-27.0	-42.5	-49.1	-44.1	-24.7
03:00	47.6	21.5	-4.7	-26.8	-42.0	-49.3	-46.5
04:00	63.9	44.0	19.5	-5.1	-26.1	-41.4	-49.8
05:00	69.5	59.5	41.2	18.6	-4.2	-24.5	-40.3
06:00	58.2	65.0	56.4	40.2	19.9	-1.7	-21.7
07:00	29.4	55.1	62.4	55.7	41.8	23.0	2.6
08:00	-6.4	28.4	54.2	62.3	57.5	45.2	28.3
09:00	-36.4	-5.2	29.5	55.4	64.4	60.9	50.7
10:00	-49.6	-33.6	-2.7	31.5	57.5	67.3	65.9
11:00	-45.4	-46.4	-30.7	-0.7	33.0	59.1	71.0
12:00	-30.5	-42.6	-44.3	-29.4	-0.2	32.7	59.3
13:00	-7.6	-28.6	-41.4	-44.0	-30.1	-2.1	29.5
14:00	18.9	-7.1	-28.3	-41.8	-45.5	-32.7	-7.5
15:00	44.3	18.0	-7.7	-29.1	-43.3	-47.8	-38.0
16:00	63.9	42.0	16.6	-8.7	-30.4	-44.8	-50.9
17:00	74.2	60.6	40.1	15.6	-9.5	-30.9	-45.9
18:00	71.4	70.4	58.4	39.2	15.4	-8.9	-30.0
19:00	49.0	67.8	68.2	57.7	39.6	16.9	-6.3
20:00	13.6	46.8	66.1	67.6	58.4	41.7	20.7
21:00	-22.8	13.5	46.2	65.7	68.3	60.5	45.6
22:00	-47.9	-20.9	14.2	46.0	65.7	69.9	63.8
23:00	-53.6	-45.0	-19.3	14.1	45.1	65.8	71.7
00:00	-45.3	-50.9	-43.1	-19.1	12.5	43.2	64.3



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Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 16/Dic/2009

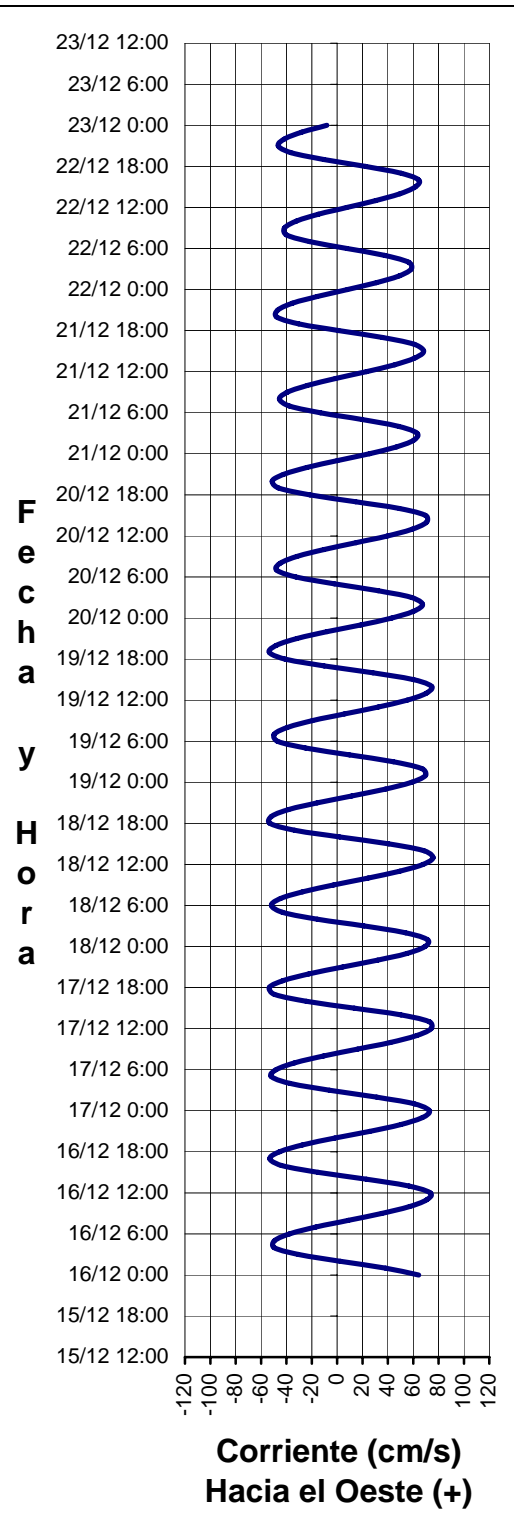
Hasta 22/Dic/2009

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	16/12	17/12	18/12	19/12	20/12	21/12	22/12
1	4:24	5:10	0:42	1:24	2:05	2:45	3:25
	-51.5	-52.3	72.4	70.8	67.4	63.7	59.6
2	11:46	12:30	5:53	6:34	7:14	7:53	8:31
	74.2	75.8	-51.9	-50.8	-48.3	-45.7	-42.7
3	16:53	17:38	13:12	13:53	14:32	15:09	15:47
	-53.2	-54.3	76.0	74.7	72.1	68.4	64.8
4	23:57		18:21	19:02	19:42	20:21	21:00
	72.9		-54.5	-53.6	-51.7	-49.1	-46.4

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	16/12	17/12	18/12	19/12	20/12	21/12	22/12
00:00	64.3	72.9	69.3	58.9	43.0	25.4	7.9
01:00	38.2	60.9	71.3	69.8	60.4	46.9	31.0
02:00	2.4	31.1	54.1	66.9	67.3	60.5	49.0
03:00	-30.8	-6.0	21.2	44.5	58.7	63.1	58.6
04:00	-49.6	-37.4	-15.6	9.7	32.4	48.6	56.4
05:00	-49.5	-51.9	-43.2	-25.0	-2.2	19.7	37.4
06:00	-37.6	-48.2	-51.8	-47.1	-32.5	-13.1	7.7
07:00	-16.8	-33.5	-44.7	-49.7	-47.7	-37.8	-21.7
08:00	9.0	-10.7	-27.3	-39.3	-45.1	-45.6	-40.0
09:00	35.2	16.2	-2.8	-19.6	-31.8	-39.2	-41.5
10:00	57.1	42.3	24.4	5.8	-10.5	-23.5	-32.1
11:00	70.8	62.9	49.4	32.4	14.8	-1.3	-14.7
12:00	73.5	74.2	67.6	55.3	39.7	23.1	7.4
13:00	56.8	72.8	75.8	70.2	59.4	45.4	30.3
14:00	23.1	50.4	68.5	74.5	70.5	61.4	49.5
15:00	-15.2	13.5	40.7	60.4	69.6	68.3	61.7
16:00	-44.1	-24.4	2.0	28.3	49.1	61.0	64.3
17:00	-53.1	-49.5	-33.5	-10.2	14.6	35.6	50.6
18:00	-45.6	-53.5	-53.0	-41.2	-21.5	1.1	22.3
19:00	-27.3	-43.0	-51.9	-53.6	-46.2	-30.4	-10.5
20:00	-1.9	-22.4	-38.4	-48.1	-51.2	-47.7	-36.5
21:00	25.9	4.3	-15.8	-31.8	-42.3	-46.8	-46.4
22:00	50.5	31.9	11.5	-8.1	-24.0	-35.2	-41.6
23:00	67.3	55.1	38.1	18.6	0.1	-15.7	-27.9
00:00	72.9	69.3	58.9	43.0	25.4	7.9	-8.0



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Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 23/Dic/2009

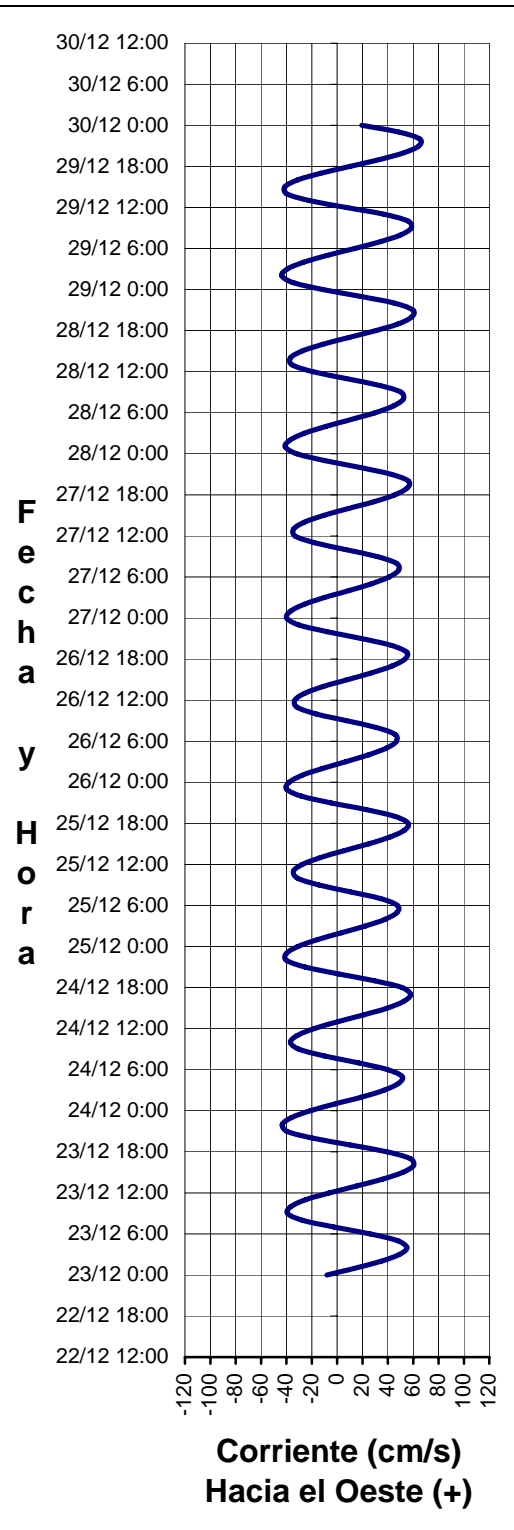
Hasta 29/Dic/2009

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	23/12	24/12	25/12	26/12	27/12	28/12	29/12
1	4:06	4:49	5:36	6:29	0:06	1:03	2:01
	55.1	51.5	48.8	47.8	-39.8	-41.0	-43.6
2	9:11	9:53	10:40	11:33	7:27	8:26	9:25
	-39.5	-36.8	-35.0	-34.2	49.4	53.0	59.3
3	16:25	17:06	17:51	18:43	12:31	13:31	14:31
	61.1	58.0	56.2	55.6	-35.3	-38.0	-42.5
4	21:41	22:24	23:13		19:39	20:39	21:38
	-43.8	-41.5	-40.2		57.2	60.9	66.6

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	23/12	24/12	25/12	26/12	27/12	28/12	29/12
00:00	-8.0	-21.1	-31.1	-37.7	-39.7	-31.9	-11.0
01:00	14.3	-1.4	-15.6	-27.8	-36.7	-40.9	-34.5
02:00	34.7	19.3	3.5	-12.0	-26.0	-37.3	-43.6
03:00	49.2	37.0	22.6	6.6	-9.9	-25.9	-39.3
04:00	55.1	48.4	38.2	24.8	8.9	-8.8	-26.6
05:00	48.0	51.2	47.3	39.1	27.0	11.0	-7.7
06:00	26.1	40.1	47.6	46.8	41.0	29.8	13.9
07:00	-2.5	16.9	34.1	45.7	48.5	44.5	34.4
08:00	-27.3	-9.9	10.5	31.0	46.9	52.2	50.2
09:00	-39.2	-30.3	-14.4	7.2	31.3	50.3	58.5
10:00	-36.4	-36.8	-31.4	-16.7	6.7	33.5	56.1
11:00	-24.7	-31.4	-34.5	-31.8	-17.9	7.1	37.0
12:00	-6.4	-18.2	-27.4	-33.3	-33.1	-19.2	7.5
13:00	15.1	0.4	-13.3	-25.4	-34.3	-35.6	-21.7
14:00	35.8	20.9	5.4	-10.7	-25.9	-36.9	-39.9
15:00	51.9	39.5	25.0	8.1	-10.4	-27.9	-41.3
16:00	60.3	52.6	42.0	27.4	9.1	-11.4	-31.3
17:00	58.0	57.9	53.0	43.5	29.0	9.5	-12.9
18:00	39.4	51.1	56.0	53.4	45.4	30.8	10.2
19:00	10.2	29.7	45.8	55.0	55.3	48.3	33.7
20:00	-19.5	1.1	22.9	42.9	56.2	58.8	53.0
21:00	-39.5	-25.2	-4.9	19.3	43.0	59.8	64.5
22:00	-43.3	-40.1	-28.5	-8.1	18.3	45.4	65.3
23:00	-36.0	-40.1	-39.8	-30.2	-9.7	18.9	49.1
00:00	-21.1	-31.1	-37.7	-39.7	-31.9	-11.0	19.5



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DIRECCIÓN DE INFRAESTRUCTURA

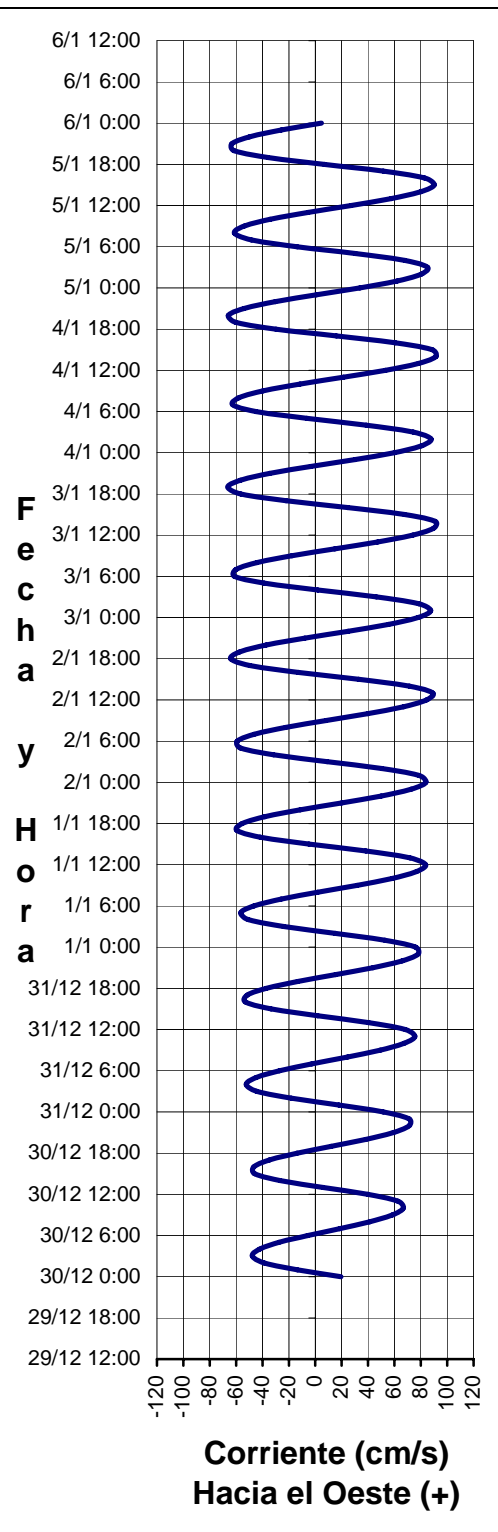
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 30/Dic/2009

Hasta 05/Ene/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	30/12	31/12	01/01	02/01	03/01	04/01	05/01
1	2:58	3:51	4:43	0:19	1:10	2:00	2:50
	-47.7	-52.4	-57.0	84.6	87.8	87.8	85.4
2	10:20	11:12	12:02	5:32	6:21	7:10	7:59
	67.4	75.8	83.6	-60.7	-63.0	-63.0	-61.3
3	15:27	16:20	17:11	12:51	13:39	14:27	15:15
	-48.3	-54.3	-60.0	89.3	92.7	93.0	90.6
4	22:33	23:28		18:01	18:50	19:40	20:29
	73.1	79.4		-64.1	-66.5	-66.7	-65.0

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	30/12	31/12	01/01	02/01	03/01	04/01	05/01
00:00	19.5	51.5	76.0	83.9	77.9	59.9	33.7
01:00	-13.5	17.9	52.7	78.7	87.5	80.5	62.0
02:00	-38.7	-18.2	15.0	50.7	78.5	87.8	80.3
03:00	-47.7	-44.6	-24.0	9.0	46.2	74.3	85.1
04:00	-42.2	-52.3	-50.8	-31.6	1.8	38.6	67.8
05:00	-27.4	-44.9	-56.4	-56.9	-38.8	-6.5	30.4
06:00	-5.9	-27.3	-46.6	-59.2	-61.2	-44.8	-13.7
07:00	18.4	-2.7	-25.9	-46.4	-60.0	-62.6	-48.4
08:00	41.2	24.5	1.9	-22.5	-44.3	-58.0	-61.3
09:00	58.3	49.3	31.8	8.0	-17.8	-39.8	-54.1
10:00	66.8	67.4	58.3	39.8	14.7	-11.6	-34.2
11:00	62.6	75.5	76.7	66.9	47.2	21.5	-5.3
12:00	39.7	68.3	83.6	84.4	73.9	53.4	27.2
13:00	5.8	40.5	71.7	89.0	89.7	78.2	57.4
14:00	-26.7	1.8	38.2	71.4	90.9	91.5	79.8
15:00	-46.1	-33.5	-4.7	32.8	67.6	88.6	90.2
16:00	-46.6	-52.9	-41.8	-13.0	24.8	60.7	82.9
17:00	-34.7	-51.5	-59.5	-49.7	-22.1	15.9	51.6
18:00	-13.7	-37.3	-55.5	-64.1	-56.5	-29.8	6.9
19:00	12.2	-13.5	-38.3	-57.3	-66.3	-60.4	-35.9
20:00	38.2	15.3	-11.4	-37.3	-56.7	-65.9	-61.6
21:00	59.3	43.6	20.0	-8.0	-34.4	-54.1	-63.3
22:00	71.3	65.9	49.9	25.1	-3.5	-30.4	-49.9
23:00	71.0	78.0	72.7	55.6	30.1	0.9	-25.8
00:00	51.5	76.0	83.9	77.9	59.9	33.7	4.6



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

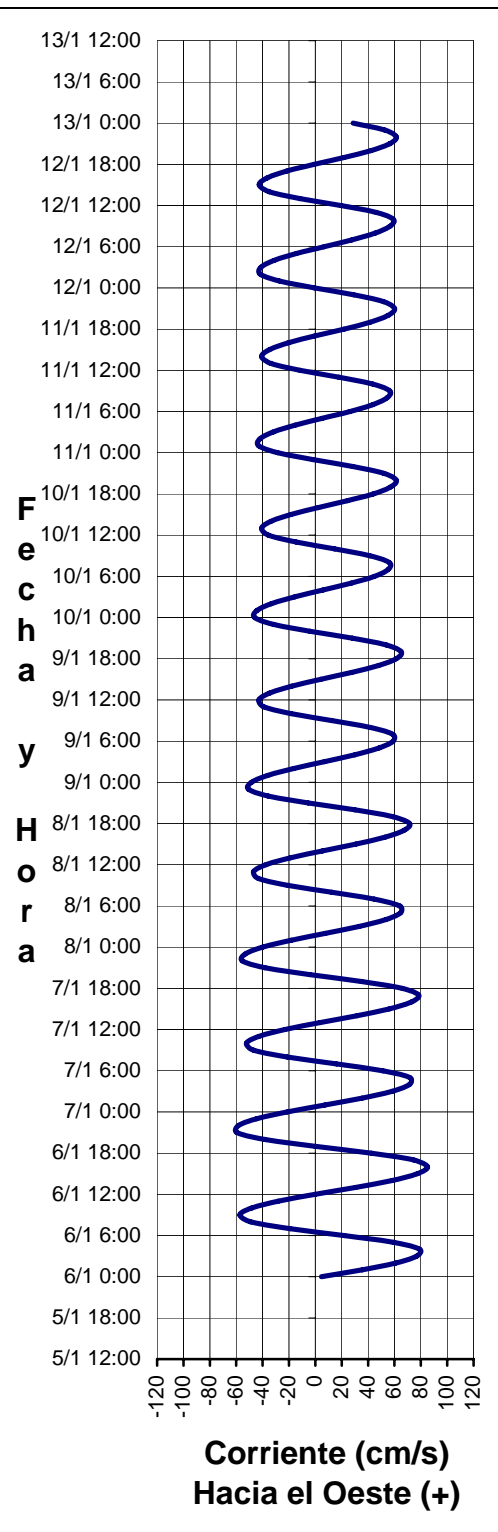
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 06/Ene/2010

Hasta 12/Ene/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	06/01	07/01	08/01	09/01	10/01	11/01	12/01
1	3:41	4:35	5:32	6:34	0:17	1:21	2:22
	80.2	73.7	66.3	60.6	-46.8	-44.0	-43.0
2	8:49	9:42	10:38	11:40	7:39	8:46	9:47
	-57.5	-52.8	-47.6	-43.4	57.2	56.9	59.6
3	16:05	16:57	17:53	18:53	12:46	13:53	14:54
	85.2	78.4	71.6	65.3	-41.0	-40.8	-42.7
4	21:21	22:16	23:14		19:57	21:01	22:00
	-61.1	-56.2	-51.3		61.4	60.1	61.4

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	06/01	07/01	08/01	09/01	10/01	11/01	12/01
00:00	4.6	-21.3	-39.9	-48.4	-46.0	-28.5	-0.6
01:00	35.6	7.2	-18.3	-36.2	-44.4	-42.9	-27.2
02:00	61.3	35.5	7.7	-16.6	-33.5	-42.1	-41.8
03:00	76.9	58.3	33.1	6.9	-15.7	-32.2	-41.2
04:00	79.0	71.5	53.4	30.0	5.8	-15.4	-31.3
05:00	59.3	71.6	64.7	48.4	27.3	5.2	-14.4
06:00	22.1	51.3	64.0	59.0	44.8	26.1	6.5
07:00	-18.9	16.0	44.7	58.8	55.2	43.5	27.7
08:00	-49.0	-21.3	12.4	41.7	56.1	54.3	45.5
09:00	-57.3	-47.0	-21.0	12.4	41.4	56.4	56.7
10:00	-48.5	-52.3	-43.2	-18.2	14.5	43.6	59.1
11:00	-28.1	-42.8	-46.8	-39.0	-14.7	17.8	46.1
12:00	-0.1	-23.0	-37.5	-42.9	-35.6	-11.6	19.3
13:00	30.6	3.4	-19.0	-34.6	-40.7	-33.8	-11.5
14:00	58.1	31.5	5.3	-17.8	-33.7	-40.7	-35.0
15:00	77.5	56.1	30.8	4.3	-18.5	-34.8	-42.6
16:00	85.1	72.8	52.8	27.7	2.1	-20.5	-36.7
17:00	74.5	78.3	67.3	47.9	24.3	-0.4	-21.9
18:00	42.4	66.0	71.4	61.3	43.8	21.6	-1.1
19:00	-0.1	35.0	58.9	65.2	57.0	41.4	21.7
20:00	-38.5	-4.1	30.1	54.0	61.4	55.0	42.2
21:00	-59.5	-38.1	-5.4	28.1	52.0	60.1	56.3
22:00	-58.5	-55.3	-35.7	-4.1	28.3	51.8	61.4
23:00	-44.6	-53.2	-50.7	-31.8	-1.8	29.1	52.5
00:00	-21.3	-39.9	-48.4	-46.0	-28.5	-0.6	28.7



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 13/Ene/2010

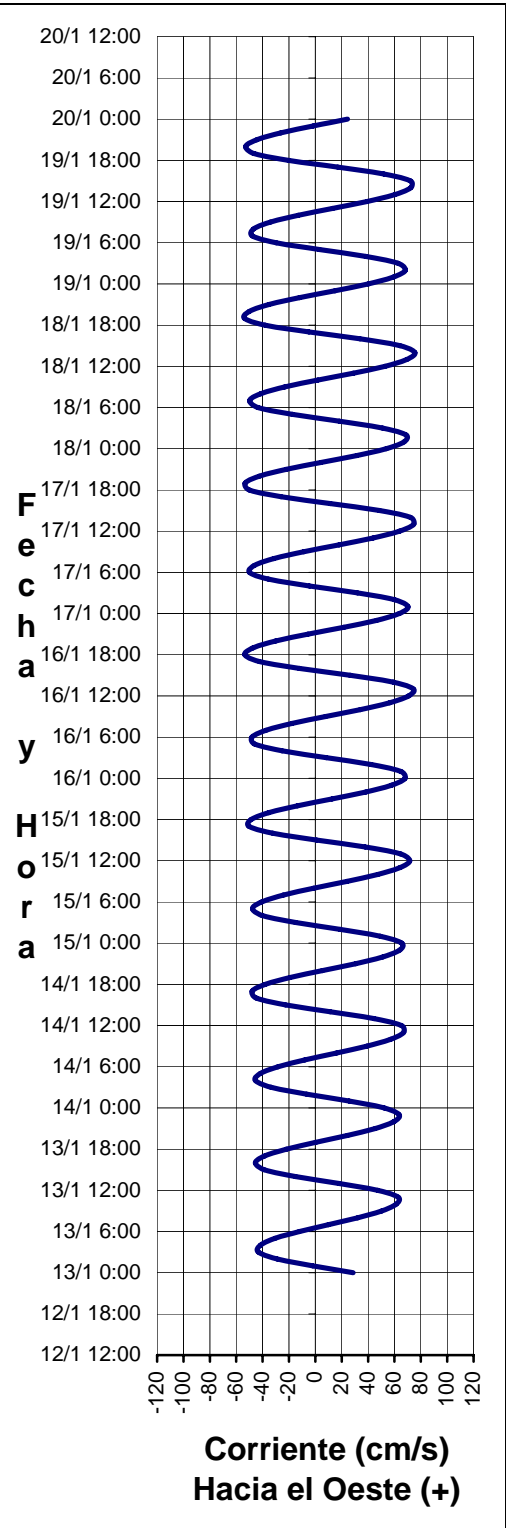
Hasta 19/Ene/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	13/01	14/01	15/01	16/01	17/01	18/01	19/01
1	3:18	4:07	4:51	0:23	1:02	1:40	2:16
	-44.0	-45.7	-47.7	69.0	70.3	70.0	68.7
2	10:42	11:29	12:11	5:32	6:10	6:47	7:22
	63.7	68.2	71.8	-49.4	-50.4	-50.2	-49.2
3	15:49	16:36	17:19	12:50	13:26	14:01	14:34
	-45.7	-48.9	-51.5	74.7	75.8	75.5	74.2
4	22:54	23:40		17:58	18:35	19:11	19:45
	63.7	66.6		-53.6	-54.3	-54.1	-53.2

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	13/01	14/01	15/01	16/01	17/01	18/01	19/01
00:00	28.7	52.2	65.5	68.1	63.7	53.7	40.2
01:00	-2.0	25.7	49.2	64.8	70.3	67.3	59.3
02:00	-29.1	-6.7	18.7	42.5	60.2	68.8	68.3
03:00	-43.2	-33.6	-15.1	8.4	31.9	51.0	62.8
04:00	-41.6	-45.5	-40.1	-25.3	-4.4	18.2	38.2
05:00	-30.6	-41.8	-47.6	-46.3	-35.5	-17.6	3.1
06:00	-12.3	-28.4	-40.8	-48.2	-50.0	-43.4	-29.6
07:00	9.9	-8.0	-24.3	-37.5	-46.4	-49.9	-47.7
08:00	32.1	16.0	-1.3	-17.7	-31.7	-41.6	-46.9
09:00	50.3	39.0	24.1	7.7	-8.9	-23.2	-34.3
10:00	61.4	57.1	47.3	34.0	17.9	1.8	-12.9
11:00	62.8	67.0	64.2	56.3	43.8	28.8	13.3
12:00	47.2	65.3	71.6	70.8	63.9	52.9	39.2
13:00	17.7	44.6	64.4	74.4	74.6	69.5	60.2
14:00	-15.0	11.2	37.7	59.1	72.0	75.5	72.3
15:00	-38.9	-22.7	1.0	26.3	48.5	64.2	72.1
16:00	-45.5	-44.9	-32.4	-12.2	11.4	33.8	51.9
17:00	-38.3	-48.0	-50.3	-42.5	-25.9	-4.9	17.0
18:00	-22.0	-38.1	-48.8	-53.6	-50.1	-38.1	-20.3
19:00	0.4	-19.2	-35.5	-47.3	-53.3	-53.7	-46.5
20:00	24.4	5.3	-13.6	-30.2	-42.6	-50.1	-52.9
21:00	45.4	30.4	12.7	-5.6	-22.1	-35.3	-44.4
22:00	59.4	51.3	38.2	21.7	4.2	-12.1	-26.2
23:00	63.6	64.0	57.9	46.4	31.3	14.8	-1.7
00:00	52.2	65.5	68.1	63.7	53.7	40.2	24.4



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

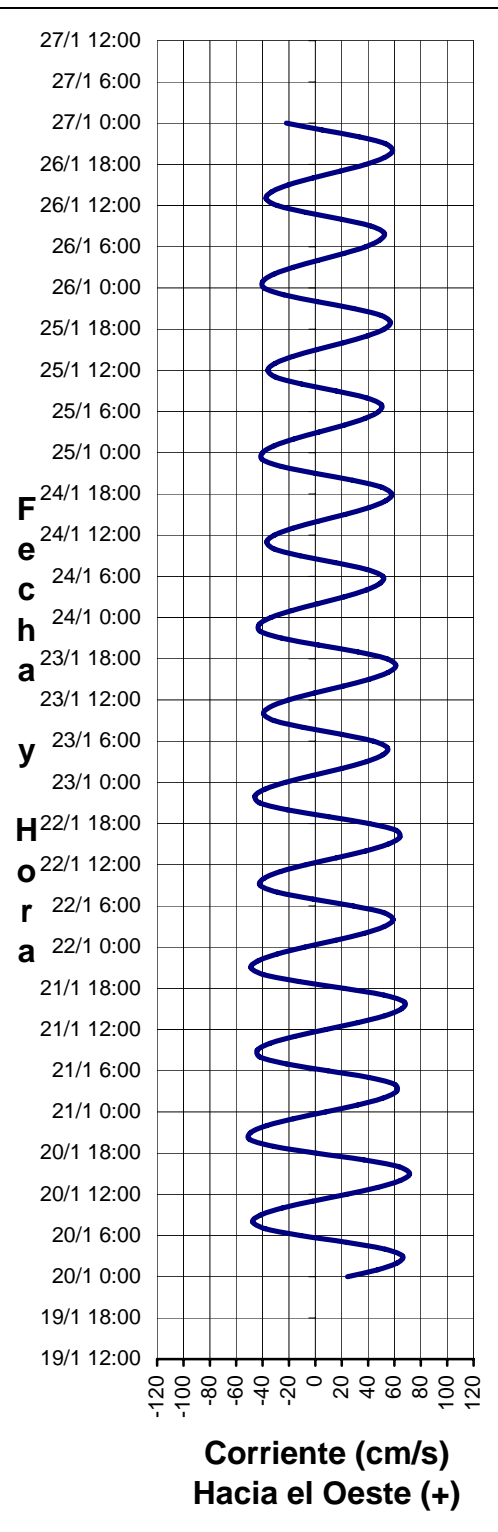
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 20/Ene/2010

Hasta 26/Ene/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	20/01	21/01	22/01	23/01	24/01	25/01	26/01
1	2:52	3:29	4:08	4:53	5:45	6:46	0:28
	66.3	63.0	59.0	54.9	51.7	50.4	-40.8
2	7:57	8:33	9:12	9:56	10:49	11:52	7:53
	-47.6	-45.1	-42.3	-39.3	-37.0	-36.1	52.2
3	15:08	15:44	16:23	17:07	18:01	19:03	13:01
	71.6	68.2	64.8	61.1	58.0	56.9	-37.4
4	20:21	20:58	21:40	22:28	23:24		20:11
	-51.3	-48.9	-46.4	-43.8	-41.5		58.8

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	20/01	21/01	22/01	23/01	24/01	25/01	26/01
00:00	24.4	7.8	-8.0	-22.5	-33.7	-40.1	-38.9
01:00	47.1	32.0	15.5	-1.9	-18.0	-31.3	-39.7
02:00	62.0	51.2	37.0	19.9	1.7	-16.2	-31.4
03:00	66.2	61.7	52.4	38.7	21.9	2.7	-16.7
04:00	52.9	60.2	58.9	51.2	38.7	21.8	2.1
05:00	23.6	40.8	52.0	54.7	49.2	37.9	21.5
06:00	-11.0	9.6	28.9	44.0	51.2	47.9	38.1
07:00	-38.0	-21.9	-1.8	19.7	39.1	50.0	49.0
08:00	-47.5	-41.9	-28.8	-9.0	15.2	38.7	52.1
09:00	-41.4	-44.0	-41.9	-31.4	-11.6	15.7	42.3
10:00	-25.2	-34.2	-39.1	-39.3	-31.4	-10.4	19.8
11:00	-2.1	-15.7	-26.6	-34.0	-36.9	-30.0	-7.2
12:00	23.7	8.0	-7.0	-20.3	-30.9	-36.0	-28.9
13:00	47.4	32.3	16.1	-0.7	-17.1	-30.5	-37.4
14:00	64.3	52.6	38.2	21.1	1.8	-17.4	-33.1
15:00	71.5	65.3	55.3	40.9	22.4	1.0	-20.4
16:00	63.5	67.4	64.0	55.2	40.7	21.2	-2.0
17:00	36.9	52.1	61.1	61.0	53.4	39.3	18.9
18:00	0.9	21.9	41.1	54.3	58.0	52.1	38.2
19:00	-31.9	-12.5	10.1	32.3	50.0	56.9	52.4
20:00	-49.9	-39.2	-21.2	2.4	28.3	49.8	58.6
21:00	-49.0	-48.9	-42.1	-25.5	-0.1	29.1	53.3
22:00	-37.0	-43.5	-45.9	-41.8	-25.7	1.5	33.4
23:00	-16.7	-28.9	-38.2	-42.5	-40.2	-23.9	5.2
00:00	7.8	-8.0	-22.5	-33.7	-40.1	-38.9	-21.9



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 27/Ene/2010

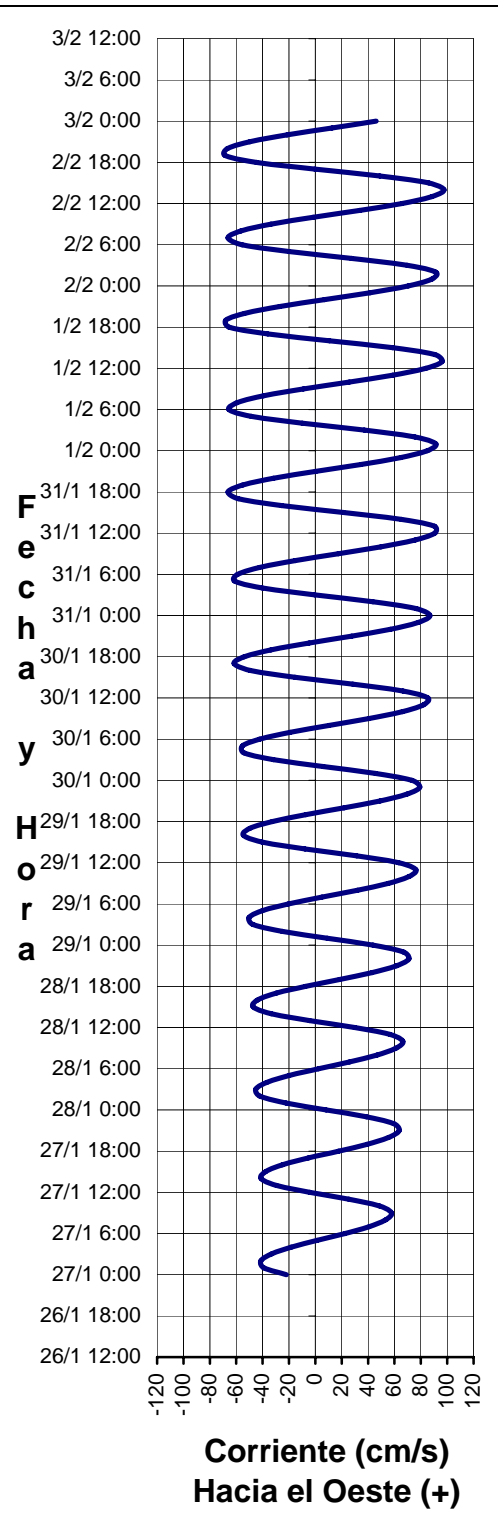
Hasta 02/Feb/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	27/01	28/01	29/01	30/01	31/01	01/02	02/02
1	1:35	2:38	3:36	4:29	0:07	0:56	1:43
	-42.1	-45.9	-51.3	-57.1	87.0	91.4	92.5
2	9:00	10:01	10:56	11:46	5:18	6:05	6:52
	57.7	66.3	76.3	85.9	-62.4	-65.6	-66.4
3	14:09	15:11	16:06	16:57	12:34	13:20	14:06
	-41.4	-47.6	-54.7	-61.7	93.0	97.2	97.7
4	21:18	22:20	23:16		17:45	18:32	19:19
	64.0	71.6	79.7		-66.7	-69.7	-70.1

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	27/01	28/01	29/01	30/01	31/01	01/02	02/02
00:00	-21.9	8.1	43.7	73.1	86.9	84.9	70.5
01:00	-39.1	-22.2	9.0	45.7	76.7	91.4	88.4
02:00	-41.4	-42.0	-25.3	6.1	43.7	75.4	91.3
03:00	-33.5	-45.2	-47.4	-31.6	-0.5	37.1	69.6
04:00	-18.3	-36.7	-50.4	-54.3	-40.2	-10.0	27.3
05:00	1.5	-19.9	-40.3	-55.4	-61.1	-48.8	-20.1
06:00	22.4	2.3	-20.6	-42.4	-58.9	-65.5	-55.5
07:00	40.7	26.0	5.0	-19.0	-42.5	-59.4	-66.2
08:00	53.2	46.8	32.0	10.4	-15.4	-39.4	-56.6
09:00	57.7	61.1	55.5	40.6	17.3	-9.1	-33.7
10:00	48.9	66.3	71.2	66.0	49.6	25.7	-1.5
11:00	25.4	56.6	76.2	82.0	75.7	58.7	33.8
12:00	-4.3	29.9	63.2	85.3	90.6	83.8	65.7
13:00	-29.5	-4.2	31.3	66.5	90.4	96.3	88.4
14:00	-41.1	-33.4	-7.9	28.4	65.0	90.6	97.6
15:00	-37.8	-47.2	-40.4	-15.6	21.2	58.6	85.9
16:00	-25.0	-43.8	-54.6	-49.6	-25.4	10.7	48.9
17:00	-5.2	-29.6	-49.6	-61.6	-58.4	-36.2	-0.4
18:00	17.6	-7.5	-32.8	-54.0	-66.3	-65.3	-44.7
19:00	39.3	18.3	-7.4	-33.8	-55.4	-68.1	-68.5
20:00	55.6	42.9	21.7	-4.8	-31.7	-53.7	-66.7
21:00	63.5	61.6	49.1	27.5	0.4	-27.1	-49.7
22:00	59.4	70.9	69.6	57.0	34.7	6.7	-21.5
23:00	38.7	66.8	79.2	78.1	64.7	41.4	12.6
00:00	8.1	43.7	73.1	86.9	84.9	70.5	46.2



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

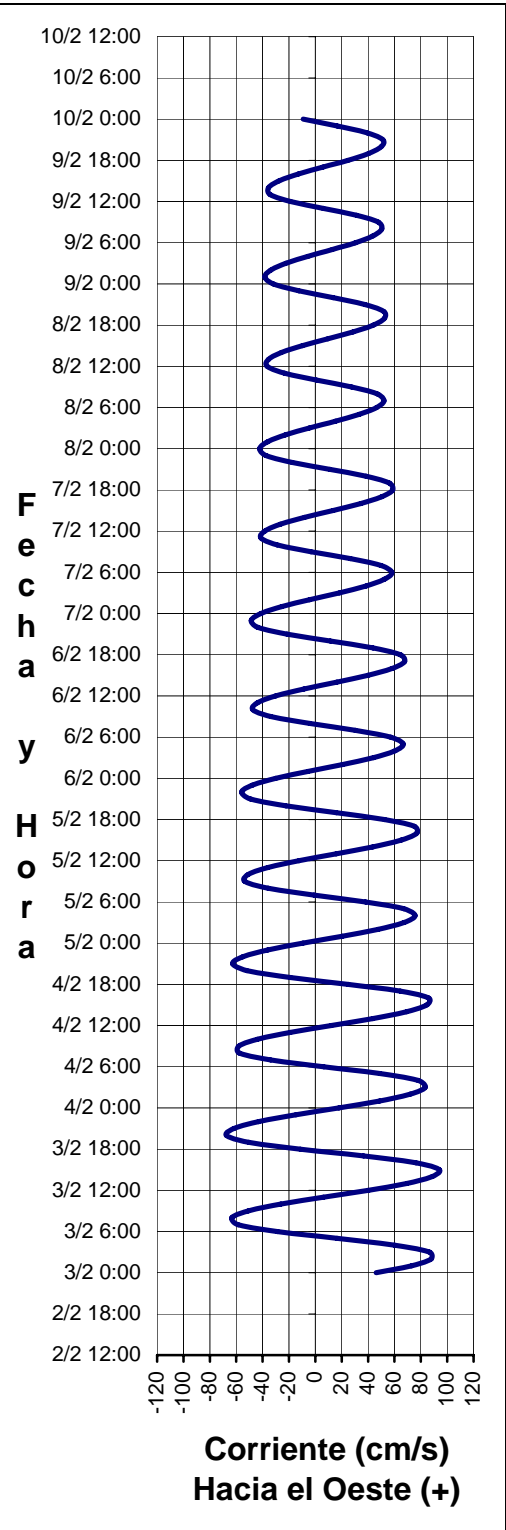
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 03/Feb/2010

Hasta 09/Feb/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	03/02	04/02	05/02	06/02	07/02	08/02	09/02
1	2:31	3:19	4:09	5:03	6:03	7:11	0:55
	89.9	84.1	75.8	66.6	58.0	52.2	-38.3
2	7:38	8:26	9:15	10:09	11:11	12:20	8:22
	-64.5	-60.3	-54.3	-47.7	-41.5	-37.4	50.9
3	14:52	15:39	16:28	17:22	18:23	19:31	13:31
	94.3	87.5	78.4	68.4	59.3	53.5	-36.5
4	20:06	20:54	21:46	22:43	23:46		20:41
	-67.7	-62.8	-56.2	-49.1	-42.5		52.0

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	03/02	04/02	05/02	06/02	07/02	08/02	09/02
00:00	46.2	17.8	-9.3	-29.9	-41.2	-42.3	-31.9
01:00	72.9	48.7	20.5	-5.6	-25.6	-36.3	-38.3
02:00	87.8	72.0	47.7	20.6	-4.4	-22.9	-33.8
03:00	86.5	83.4	67.3	44.1	18.3	-4.7	-22.3
04:00	60.1	77.9	75.6	60.4	38.5	15.2	-5.8
05:00	16.4	48.9	67.1	66.6	52.6	33.3	12.9
06:00	-28.7	6.5	38.0	57.1	58.0	46.4	30.4
07:00	-58.6	-34.0	-1.0	30.2	49.9	52.1	43.6
08:00	-63.5	-57.7	-35.7	-4.3	26.7	46.8	50.4
09:00	-51.0	-58.1	-53.5	-33.8	-3.2	27.4	47.8
10:00	-26.2	-43.9	-50.9	-47.5	-29.0	0.8	31.2
11:00	6.2	-18.9	-36.2	-43.9	-41.2	-23.4	5.9
12:00	40.2	12.2	-12.5	-30.1	-38.4	-36.5	-18.8
13:00	69.6	43.5	15.8	-8.7	-26.5	-35.5	-34.2
14:00	88.7	69.2	43.4	16.2	-8.1	-25.9	-35.5
15:00	94.0	84.6	65.1	40.0	13.5	-9.9	-27.5
16:00	76.3	85.9	76.9	58.3	34.3	9.5	-12.9
17:00	36.5	64.4	75.1	67.7	50.3	28.6	5.7
18:00	-11.4	24.9	52.7	64.5	58.6	43.8	24.7
19:00	-50.6	-18.9	16.0	43.6	56.1	52.4	40.4
20:00	-67.5	-51.9	-22.3	11.4	38.5	51.8	50.0
21:00	-61.9	-62.7	-49.3	-21.5	10.9	37.6	51.2
22:00	-43.2	-55.2	-55.9	-43.8	-17.5	13.6	39.3
23:00	-14.8	-36.2	-47.8	-48.7	-37.3	-12.5	16.6
00:00	17.8	-9.3	-29.9	-41.2	-42.3	-31.9	-9.2



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

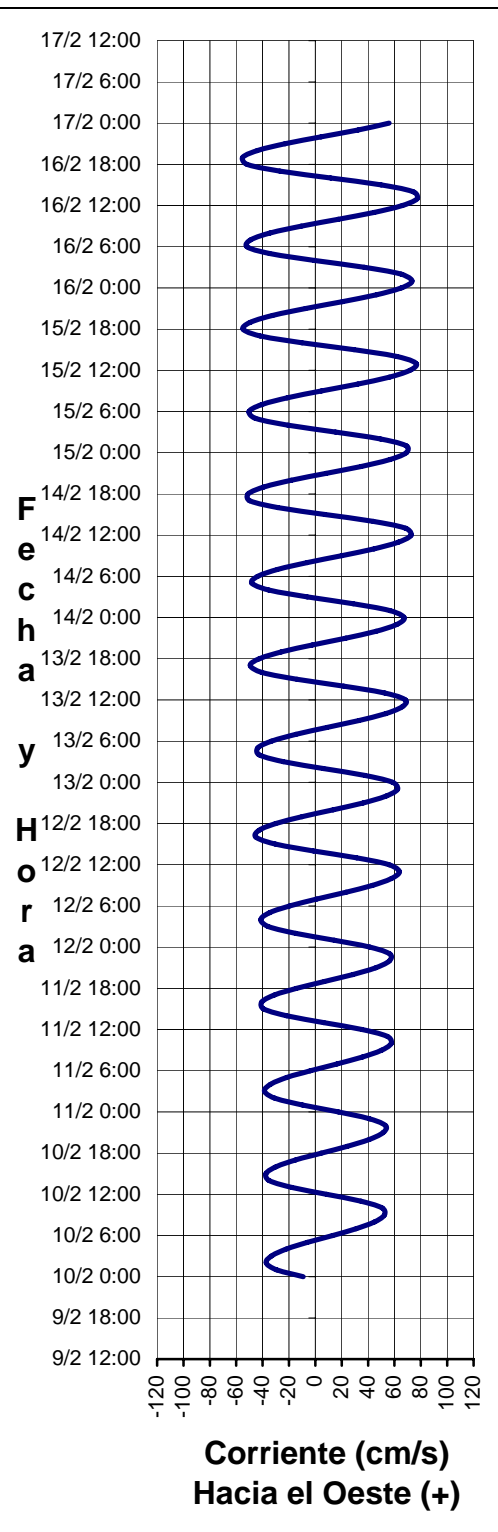
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 10/Feb/2010

Hasta 16/Feb/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	10/02	11/02	12/02	13/02	14/02	15/02	16/02
1	2:01	2:59	3:47	4:29	5:06	0:35	1:09
	-37.2	-38.5	-41.5	-45.1	-48.3	71.0	73.4
2	9:27	10:22	11:07	11:45	12:20	5:41	6:15
	53.3	58.3	63.7	69.0	73.4	-50.9	-52.6
3	14:36	15:31	16:15	16:53	17:29	12:53	13:25
	-38.2	-41.7	-45.7	-49.4	-52.6	76.5	78.4
4	21:44	22:36	23:20	23:59		18:02	18:36
	53.8	58.0	63.0	67.4		-54.9	-56.2

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	10/02	11/02	12/02	13/02	14/02	15/02	16/02
00:00	-9.2	17.5	41.3	58.6	67.4	69.0	65.2
01:00	-29.4	-9.7	14.3	37.6	56.7	69.1	73.2
02:00	-37.2	-30.8	-14.9	6.1	28.7	49.4	65.1
03:00	-33.4	-38.5	-35.9	-24.3	-6.2	15.3	37.0
04:00	-22.3	-34.1	-41.3	-42.7	-35.4	-20.7	-0.9
05:00	-5.9	-21.8	-34.7	-43.7	-48.2	-45.5	-34.7
06:00	13.0	-3.8	-19.7	-33.4	-43.8	-50.4	-51.9
07:00	31.0	16.5	0.9	-14.7	-28.9	-40.9	-49.2
08:00	45.0	35.7	23.3	8.9	-6.3	-21.3	-34.4
09:00	52.4	50.3	43.5	33.0	19.8	4.7	-10.7
10:00	50.8	57.7	57.8	53.3	44.5	32.2	17.4
11:00	34.5	54.6	63.7	65.9	63.4	56.0	44.7
12:00	8.5	35.4	56.0	68.3	72.7	71.8	66.0
13:00	-17.8	6.5	31.3	52.7	68.4	76.4	77.2
14:00	-35.0	-21.8	-1.4	21.5	43.8	62.1	74.3
15:00	-37.5	-39.3	-30.3	-13.9	7.1	29.3	49.9
16:00	-29.8	-40.6	-45.0	-40.8	-28.4	-10.1	11.6
17:00	-14.9	-31.3	-42.7	-49.4	-49.8	-42.0	-26.9
18:00	4.3	-14.5	-30.2	-42.6	-51.1	-54.9	-51.8
19:00	24.2	6.8	-10.2	-25.8	-39.3	-49.3	-55.2
20:00	41.0	28.2	13.5	-2.4	-18.2	-32.4	-44.2
21:00	51.4	45.9	36.2	23.2	8.2	-7.6	-23.0
22:00	53.2	56.2	53.6	46.1	34.8	20.5	4.2
23:00	41.2	56.6	62.3	61.9	56.5	46.4	32.3
00:00	17.5	41.3	58.6	67.4	69.0	65.2	56.0



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 17/Feb/2010

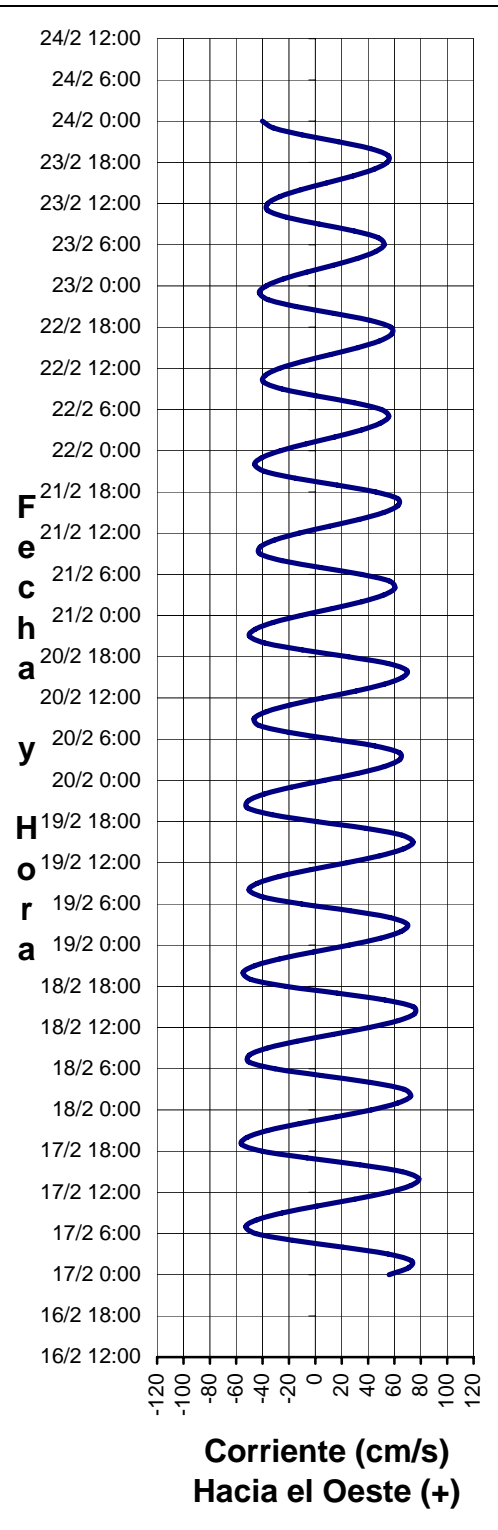
Hasta 23/Feb/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	17/02	18/02	19/02	20/02	21/02	22/02	23/02
1	1:43	2:18	2:54	3:34	4:19	5:12	6:16
	73.9	72.9	70.0	65.8	60.9	55.9	52.5
2	6:49	7:23	7:59	8:38	9:23	10:18	11:25
	-53.0	-52.3	-50.2	-47.2	-43.6	-40.0	-37.6
3	13:58	14:32	15:08	15:48	16:34	17:31	18:38
	78.4	77.1	74.2	69.7	64.3	59.3	56.2
4	19:09	19:44	20:22	21:04	21:53	22:53	
	-56.2	-55.3	-53.2	-50.0	-46.1	-42.5	

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	17/02	18/02	19/02	20/02	21/02	22/02	23/02
00:00	56.0	42.4	25.7	7.0	-11.0	-26.5	-37.2
01:00	70.6	62.5	49.4	32.1	12.8	-6.9	-24.5
02:00	73.0	72.3	65.1	52.3	35.2	14.8	-6.5
03:00	55.3	67.2	69.9	64.0	52.1	34.8	13.6
04:00	21.0	41.7	56.8	63.9	60.3	49.3	32.1
05:00	-17.1	4.5	26.3	45.2	56.3	55.7	45.8
06:00	-45.1	-30.6	-10.3	13.2	35.0	50.2	52.2
07:00	-52.8	-50.5	-39.4	-20.3	4.0	29.4	48.1
08:00	-44.3	-49.9	-50.2	-42.7	-25.3	0.7	29.6
09:00	-25.1	-36.7	-44.1	-46.5	-42.1	-25.4	3.1
10:00	1.3	-14.1	-27.3	-37.1	-41.7	-39.2	-21.8
11:00	29.9	13.5	-3.1	-18.6	-30.8	-37.8	-36.1
12:00	55.2	40.9	24.0	5.6	-12.2	-27.1	-36.1
13:00	72.4	62.9	48.8	30.9	10.7	-9.6	-26.9
14:00	78.4	75.3	66.6	52.4	33.5	11.6	-11.0
15:00	65.8	74.5	74.1	66.2	52.0	32.3	8.7
16:00	33.8	52.8	65.8	69.3	62.6	48.8	28.5
17:00	-6.3	16.3	38.3	55.1	62.5	58.0	44.7
18:00	-40.2	-22.1	1.1	25.3	45.8	57.3	54.3
19:00	-55.9	-48.8	-32.8	-9.9	16.6	41.3	55.1
20:00	-51.9	-54.9	-51.6	-38.2	-15.1	14.4	41.9
21:00	-36.2	-45.9	-51.0	-49.9	-38.6	-14.6	17.5
22:00	-12.1	-27.0	-38.8	-45.6	-46.0	-35.8	-10.1
23:00	15.8	-1.5	-18.2	-31.7	-40.4	-42.4	-31.7
00:00	42.4	25.7	7.0	-11.0	-26.5	-37.2	-40.2



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 24/Feb/2010

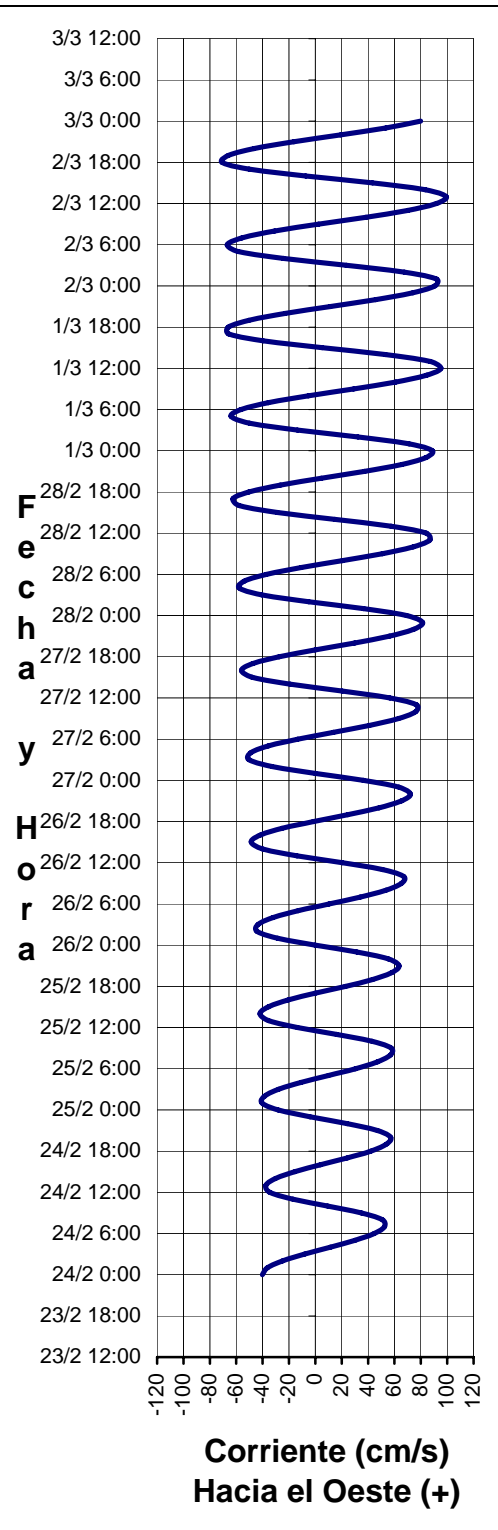
Hasta 02/Mar/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	24/02	25/02	26/02	27/02	28/02	01/03	02/03
1	0:02	1:15	2:21	3:20	4:12	5:00	0:38
	-40.2	-41.0	-45.5	-51.7	-58.3	-63.9	93.8
2	7:28	8:39	9:42	10:37	11:27	12:14	5:46
	53.3	58.8	67.9	78.4	88.3	95.6	-67.3
3	12:39	13:51	14:54	15:49	16:38	17:26	12:58
	-38.2	-42.1	-48.7	-56.2	-63.3	-68.6	99.3
4	19:53	21:04	22:06	23:01	23:51		18:11
	57.2	63.5	72.1	81.2	89.1		-71.2

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	24/02	25/02	26/02	27/02	28/02	01/03	02/03
00:00	-40.2	-28.3	-0.2	36.3	69.2	88.8	90.6
01:00	-36.4	-40.4	-28.7	0.0	36.6	71.0	91.8
02:00	-25.0	-38.5	-44.2	-32.7	-4.9	32.3	67.5
03:00	-8.1	-27.9	-43.4	-50.4	-40.6	-13.6	23.4
04:00	11.4	-10.7	-32.1	-49.1	-57.8	-50.0	-24.3
05:00	30.1	9.9	-13.1	-35.7	-53.9	-63.9	-58.5
06:00	44.6	30.4	10.4	-13.4	-37.1	-56.6	-66.9
07:00	52.4	47.0	34.0	13.8	-10.6	-35.8	-55.6
08:00	50.9	56.9	53.4	41.0	20.6	-5.4	-31.0
09:00	35.0	57.7	65.3	63.0	50.7	29.0	2.5
10:00	9.3	43.0	67.0	76.0	74.3	60.9	38.5
11:00	-17.0	16.1	51.1	76.6	86.9	84.4	70.2
12:00	-34.6	-13.6	20.5	56.5	84.1	95.2	91.8
13:00	-37.6	-35.5	-14.0	20.2	57.3	87.0	99.2
14:00	-30.3	-42.0	-40.1	-19.2	14.6	53.1	83.5
15:00	-15.6	-35.7	-48.6	-48.0	-28.8	5.2	43.3
16:00	3.8	-20.8	-42.0	-56.0	-57.7	-39.7	-7.2
17:00	24.3	0.1	-25.3	-47.4	-62.4	-65.8	-50.3
18:00	42.0	22.9	-1.6	-27.5	-50.4	-66.1	-70.7
19:00	53.7	43.5	24.5	-0.1	-26.6	-50.4	-66.1
20:00	57.1	57.9	48.3	29.7	4.7	-22.9	-46.7
21:00	47.2	63.5	65.2	56.2	37.4	11.3	-16.4
22:00	24.3	55.3	72.0	74.6	65.6	45.7	19.2
23:00	-4.0	31.4	63.4	81.2	83.9	73.9	53.4
00:00	-28.3	-0.2	36.3	69.2	88.8	90.6	79.8



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

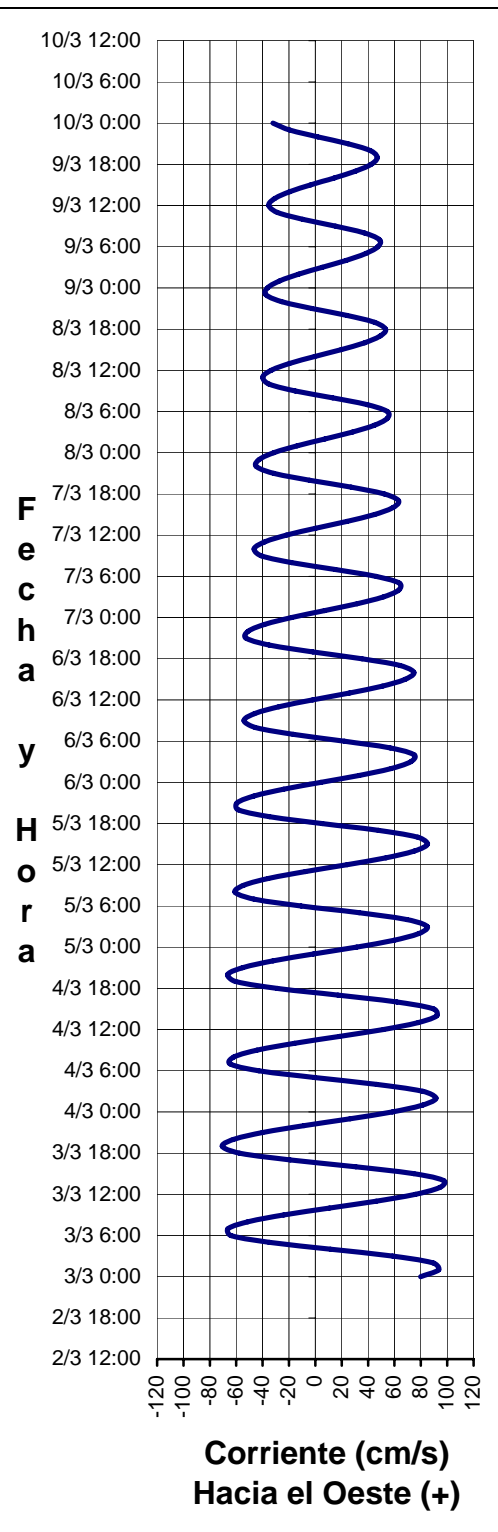
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 03/Mar/2010

Hasta 09/Mar/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	03/03	04/03	05/03	06/03	07/03	08/03	09/03
1	1:24	2:09	2:55	3:43	4:36	5:35	6:43
	94.8	91.7	84.9	75.8	65.3	56.2	49.4
2	6:31	7:16	8:02	8:50	9:44	10:45	11:55
	-68.0	-65.8	-60.9	-54.3	-46.8	-40.2	-35.3
3	13:43	14:28	15:13	16:02	16:55	17:57	19:07
	98.5	93.8	85.4	74.7	63.2	53.3	47.0
4	18:56	19:41	20:28	21:18	22:14	23:18	
	-70.7	-67.3	-61.3	-53.6	-45.3	-38.2	

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	03/03	04/03	05/03	06/03	07/03	08/03	09/03
00:00	79.8	58.4	31.3	4.4	-17.9	-31.5	-36.3
01:00	93.6	81.6	59.8	33.4	7.0	-13.8	-27.3
02:00	89.4	91.5	78.8	57.5	31.7	7.3	-12.6
03:00	58.7	81.4	84.8	72.4	51.6	28.1	5.4
04:00	11.4	46.5	69.6	74.8	63.3	44.9	23.4
05:00	-35.1	-0.6	33.3	56.8	63.7	54.6	38.2
06:00	-63.9	-42.8	-10.8	22.0	46.2	54.7	47.3
07:00	-66.2	-64.6	-46.6	-16.9	15.2	39.5	48.8
08:00	-51.3	-61.8	-60.9	-45.8	-17.9	13.0	37.4
09:00	-24.0	-44.2	-54.5	-54.2	-41.2	-15.3	15.3
10:00	10.7	-15.7	-35.6	-46.3	-46.4	-35.2	-9.7
11:00	46.3	18.4	-7.7	-27.8	-38.6	-40.0	-28.9
12:00	76.0	51.7	24.0	-2.1	-22.0	-33.5	-35.3
13:00	94.3	77.9	53.4	25.9	0.3	-19.5	-30.9
14:00	97.3	92.1	75.2	50.9	24.2	-0.6	-19.6
15:00	74.7	89.7	85.1	68.2	45.0	19.6	-3.5
16:00	30.7	61.9	77.6	74.7	58.8	37.3	14.4
17:00	-19.2	17.1	47.7	64.4	63.1	49.3	30.6
18:00	-57.5	-29.0	5.3	35.5	52.5	53.3	42.2
19:00	-70.6	-60.4	-34.7	-2.0	27.0	44.9	47.0
20:00	-62.2	-66.6	-58.4	-35.1	-4.5	24.0	41.7
21:00	-40.2	-55.4	-59.5	-52.5	-31.5	-2.4	24.8
22:00	-8.7	-32.2	-46.7	-50.9	-44.8	-25.5	1.8
23:00	26.3	-1.4	-24.1	-38.5	-42.6	-37.4	-19.6
00:00	58.4	31.3	4.4	-17.9	-31.5	-36.3	-32.1



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

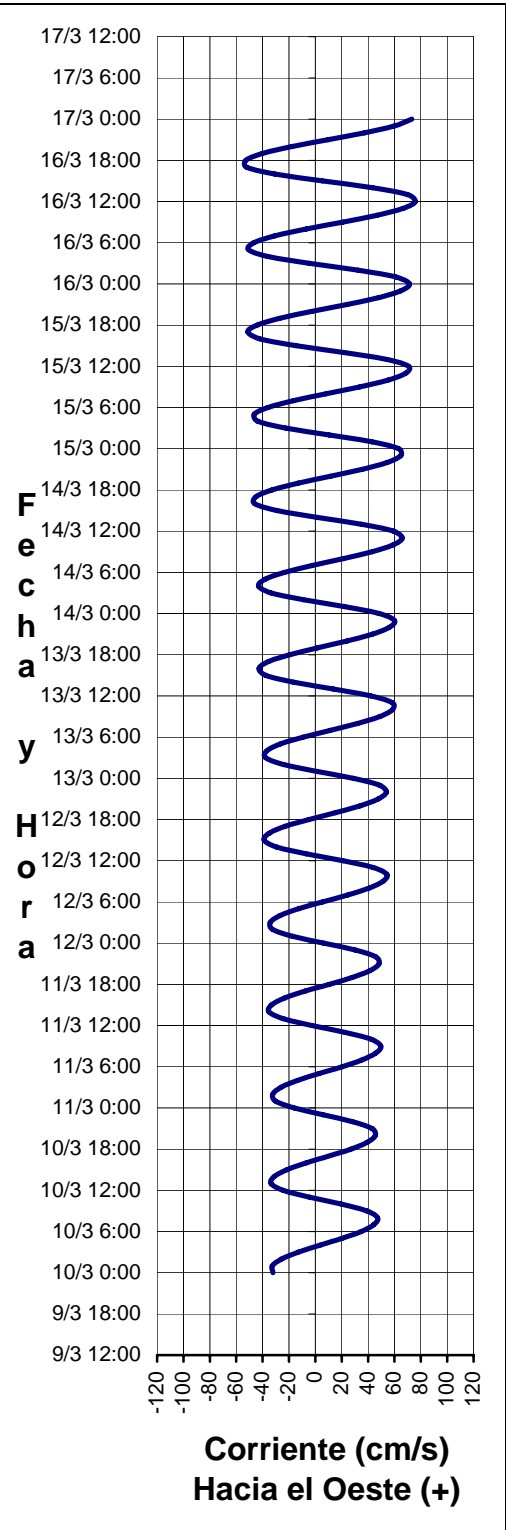
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 10/Mar/2010

Hasta 16/Mar/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	10/03	11/03	12/03	13/03	14/03	15/03	16/03
1	0:28	1:36	2:34	3:20	3:59	4:34	0:03
	-33.6	-32.9	-35.0	-38.7	-43.0	-47.4	71.3
2	7:55	9:01	9:53	10:35	11:11	11:44	5:08
	47.3	49.6	54.3	60.1	66.1	71.6	-51.1
3	13:09	14:13	15:03	15:44	16:20	16:54	12:16
	-33.8	-35.5	-38.9	-43.0	-47.4	-51.3	76.3
4	20:20	21:22	22:12	22:53	23:29		17:27
	46.0	48.8	54.1	60.1	66.1		-54.7

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	10/03	11/03	12/03	13/03	14/03	15/03	16/03
00:00	-32.1	-16.1	6.2	28.7	48.4	63.2	71.3
01:00	-32.6	-30.3	-17.5	1.2	22.3	43.0	61.2
02:00	-25.5	-32.3	-32.5	-24.0	-8.9	10.4	32.3
03:00	-12.7	-25.9	-34.2	-37.7	-33.7	-22.6	-4.8
04:00	3.5	-13.5	-26.8	-36.7	-43.0	-43.8	-36.5
05:00	20.3	2.9	-12.7	-26.4	-37.9	-46.3	-50.9
06:00	34.7	20.2	5.4	-9.3	-23.4	-36.1	-46.7
07:00	44.2	35.4	24.3	11.5	-2.4	-16.8	-31.0
08:00	47.2	45.9	40.5	32.2	21.3	8.0	-7.0
09:00	39.1	49.6	51.2	48.9	43.1	33.6	20.7
10:00	19.7	42.4	54.2	58.5	59.0	55.2	46.9
11:00	-4.3	22.6	44.0	58.4	65.9	68.5	66.5
12:00	-24.5	-2.6	20.9	42.1	59.2	70.8	75.8
13:00	-33.7	-24.5	-7.0	13.7	34.8	54.2	70.0
14:00	-31.1	-35.1	-29.6	-16.6	1.2	21.9	43.5
15:00	-21.5	-33.1	-38.9	-37.8	-29.4	-14.7	5.3
16:00	-6.7	-23.3	-35.0	-42.7	-46.1	-42.3	-30.9
17:00	10.5	-7.8	-23.0	-35.4	-45.0	-51.3	-52.3
18:00	26.9	10.4	-5.2	-19.7	-33.0	-44.3	-52.8
19:00	39.4	27.9	15.1	1.4	-12.8	-27.1	-40.2
20:00	45.6	41.4	33.9	23.9	11.5	-2.8	-18.1
21:00	42.9	48.3	47.7	43.4	35.5	23.9	9.4
22:00	28.1	45.9	53.9	56.2	54.4	48.0	37.2
23:00	5.9	30.2	48.6	59.9	64.8	64.8	59.8
00:00	-16.1	6.2	28.7	48.4	63.2	71.3	73.1



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 17/Mar/2010

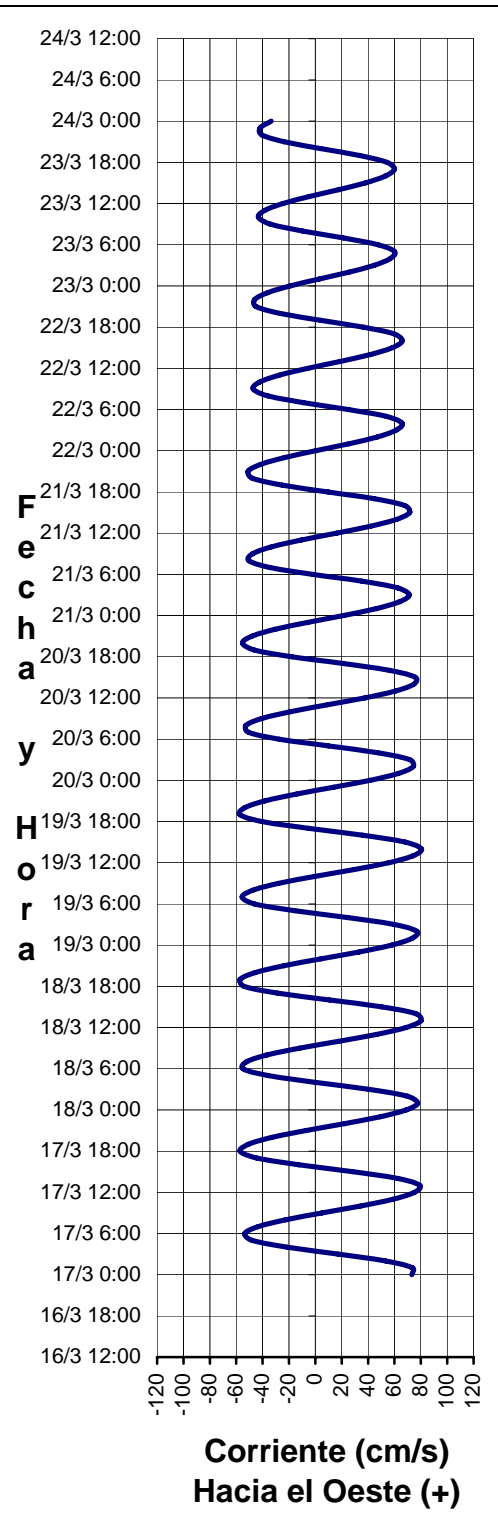
Hasta 23/Mar/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	17/03	18/03	19/03	20/03	21/03	22/03	23/03
1	0:37	1:11	1:47	2:26	3:08	3:54	4:49
	75.5	77.8	77.6	75.5	71.3	65.8	60.3
2	5:42	6:16	6:52	7:31	8:13	9:02	9:59
	-54.1	-55.8	-55.6	-54.1	-51.1	-47.2	-43.2
3	12:49	13:23	13:59	14:38	15:21	16:12	17:12
	79.7	81.2	80.5	77.3	72.4	66.1	60.1
4	18:00	18:35	19:12	19:52	20:36	21:29	22:31
	-57.1	-58.3	-57.7	-55.4	-51.9	-47.4	-43.0

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	17/03	18/03	19/03	20/03	21/03	22/03	23/03
00:00	73.1	68.9	57.9	41.6	21.5	0.4	-19.0
01:00	73.7	77.6	73.6	63.0	46.2	25.4	2.9
02:00	53.3	69.7	77.0	74.3	63.8	47.1	25.6
03:00	17.1	40.3	59.9	71.6	71.2	61.4	44.7
04:00	-21.4	0.1	24.6	47.5	62.8	65.7	57.0
05:00	-48.1	-36.1	-15.6	9.9	35.0	53.6	60.0
06:00	-53.6	-54.8	-46.1	-27.4	-1.9	25.4	47.7
07:00	-43.5	-52.4	-55.5	-50.7	-34.4	-8.7	21.2
08:00	-22.7	-36.9	-47.5	-52.7	-50.5	-36.2	-9.7
09:00	5.0	-11.9	-27.9	-40.7	-47.6	-47.2	-34.1
10:00	34.1	17.8	-0.6	-18.7	-33.2	-42.2	-43.2
11:00	59.1	46.6	29.2	9.1	-10.5	-27.4	-38.3
12:00	75.3	68.8	55.8	37.4	16.2	-5.7	-24.6
13:00	79.3	80.3	74.0	60.8	41.9	18.9	-4.8
14:00	63.0	76.5	80.5	74.7	61.6	41.7	17.5
15:00	28.3	50.5	68.1	75.8	71.6	58.4	38.1
16:00	-12.5	10.8	35.8	56.4	67.8	65.9	53.2
17:00	-44.8	-28.7	-5.2	21.1	44.7	59.8	59.9
18:00	-57.1	-54.0	-40.3	-17.7	9.7	36.6	54.4
19:00	-50.9	-57.2	-57.2	-46.5	-25.2	4.0	33.6
20:00	-33.1	-45.7	-53.8	-55.4	-47.8	-26.7	4.2
21:00	-7.1	-24.0	-38.5	-48.1	-51.1	-45.0	-23.7
22:00	22.1	4.1	-14.3	-30.4	-41.7	-46.1	-40.7
23:00	49.2	33.2	14.1	-5.7	-23.4	-36.4	-42.0
00:00	68.9	57.9	41.6	21.5	0.4	-19.0	-33.4



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

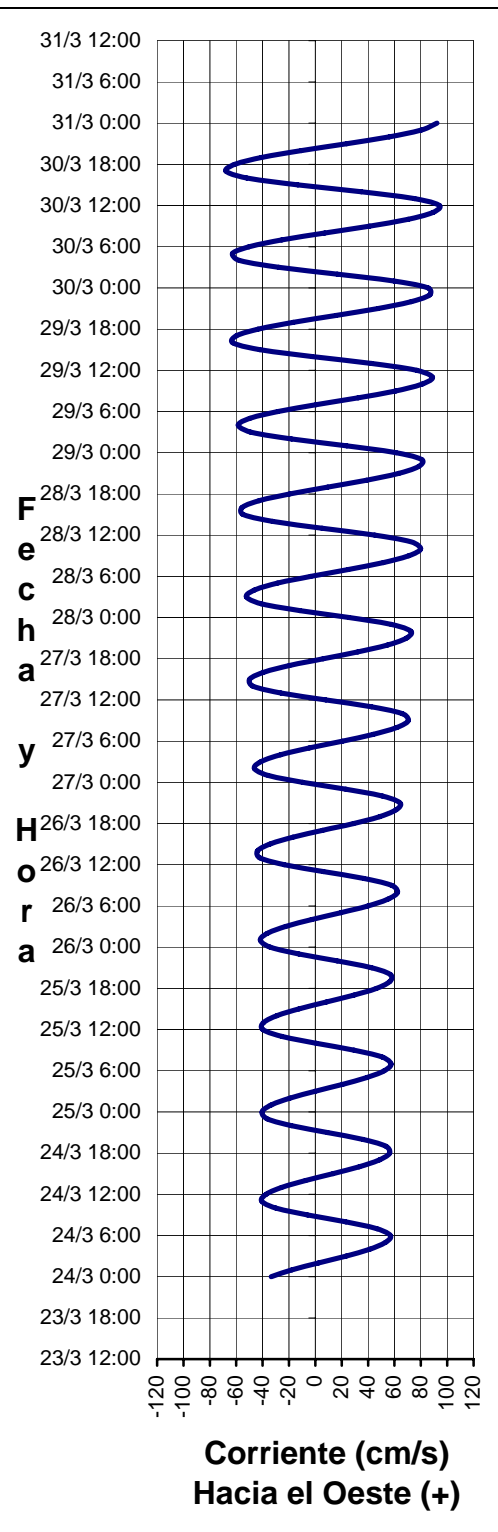
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 24/Mar/2010

Hasta 30/Mar/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	24/03	25/03	26/03	27/03	28/03	29/03	30/03
1	5:54	7:06	0:55	2:02	3:00	3:51	4:39
	56.9	57.5	-41.7	-46.2	-52.3	-58.6	-63.7
2	11:07	12:22	8:17	9:19	10:14	11:03	11:50
	-40.8	-41.2	62.7	71.0	80.2	88.8	94.6
3	18:22	19:38	13:33	14:34	15:28	16:17	17:03
	56.9	58.3	-44.9	-50.9	-57.5	-63.7	-67.9
4	23:42		20:48	21:49	22:43	23:31	
	-40.8		64.5	72.9	81.8	88.8	

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	24/03	25/03	26/03	27/03	28/03	29/03	30/03
00:00	-33.4	-40.4	-34.3	-9.7	25.6	61.2	85.6
01:00	-17.7	-33.6	-41.7	-35.8	-11.6	23.8	59.7
02:00	2.4	-19.3	-36.3	-46.2	-41.1	-18.1	16.6
03:00	23.4	-0.1	-22.6	-41.3	-52.3	-49.3	-27.9
04:00	41.4	20.6	-2.9	-26.5	-46.1	-58.5	-57.7
05:00	53.3	39.1	19.2	-4.5	-28.8	-49.6	-62.8
06:00	56.9	52.1	39.8	20.5	-3.6	-28.7	-50.3
07:00	46.8	57.4	55.0	44.1	24.9	0.5	-25.5
08:00	23.1	50.7	62.3	61.8	51.4	32.4	7.1
09:00	-5.9	29.3	57.8	70.5	70.9	61.0	41.2
10:00	-30.0	0.6	36.9	66.0	79.9	81.1	70.5
11:00	-40.6	-25.4	6.2	42.6	73.0	88.8	89.4
12:00	-37.3	-39.9	-23.5	7.9	45.0	76.9	94.1
13:00	-25.6	-39.4	-42.1	-26.0	5.1	42.5	75.4
14:00	-7.6	-29.4	-43.9	-47.5	-32.5	-2.4	34.8
15:00	13.3	-12.4	-34.5	-49.9	-54.8	-42.1	-13.3
16:00	33.3	8.4	-16.9	-39.4	-55.7	-62.6	-52.0
17:00	48.5	29.3	5.6	-19.6	-42.7	-60.1	-67.8
18:00	56.3	46.3	28.8	5.8	-19.6	-43.5	-61.2
19:00	53.7	56.4	48.6	32.2	9.4	-16.6	-41.0
20:00	36.2	57.1	61.2	54.7	38.8	15.7	-10.8
21:00	9.2	42.7	64.2	69.0	63.4	47.5	23.6
22:00	-18.1	16.5	50.9	72.5	78.4	72.7	56.0
23:00	-36.6	-12.4	23.1	57.5	80.7	86.8	80.4
00:00	-40.4	-34.3	-9.7	25.6	61.2	85.6	92.3



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 31/Mar/2010

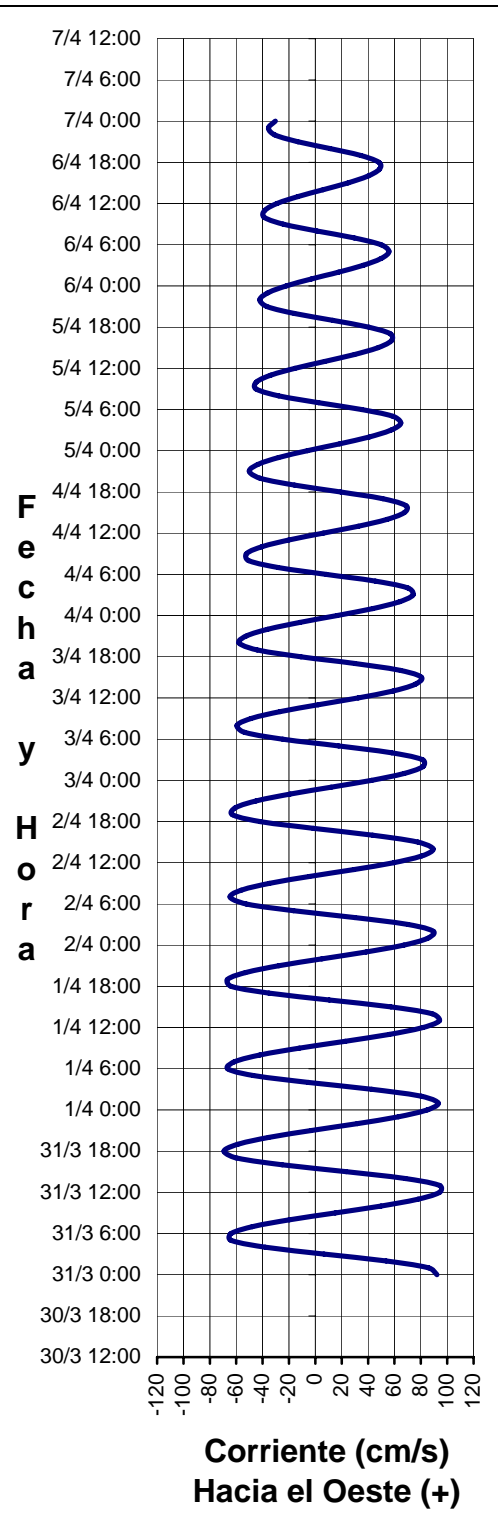
Hasta 06/Abr/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	31/03	01/04	02/04	03/04	04/04	05/04	06/04
1	0:18	1:03	1:48	2:34	3:22	4:13	5:10
	93.0	93.3	90.1	83.8	75.0	65.0	55.9
2	5:25	6:10	6:55	7:41	8:30	9:23	10:22
	-66.7	-66.9	-64.7	-60.1	-53.8	-46.6	-40.0
3	12:35	13:20	14:04	14:50	15:38	16:31	17:32
	96.9	95.1	89.3	80.7	70.0	59.0	49.9
4	17:48	18:33	19:18	20:04	20:53	21:47	22:48
	-69.5	-68.2	-64.1	-57.9	-50.2	-42.3	-35.7

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	31/03	01/04	02/04	03/04	04/04	05/04	06/04
00:00	92.3	84.8	67.1	42.8	16.6	-6.0	-22.1
01:00	85.9	93.2	85.3	67.5	43.4	18.5	-3.1
02:00	53.6	80.2	89.6	81.6	63.8	41.0	17.6
03:00	6.5	42.7	70.3	81.3	74.1	57.4	36.4
04:00	-38.1	-5.6	30.1	57.8	70.2	64.8	50.0
05:00	-64.1	-47.0	-16.5	17.6	45.5	58.8	55.8
06:00	-64.1	-66.5	-52.5	-24.7	8.2	35.4	50.0
07:00	-47.9	-61.6	-64.6	-53.7	-28.2	2.5	29.5
08:00	-19.8	-42.2	-56.3	-59.5	-50.6	-27.9	1.4
09:00	15.0	-12.2	-34.9	-48.9	-52.3	-45.1	-24.4
10:00	49.8	22.9	-4.5	-27.0	-40.9	-44.7	-38.8
11:00	78.0	56.2	29.1	2.0	-20.1	-33.9	-38.4
12:00	94.2	81.6	59.5	32.6	6.0	-15.4	-29.1
13:00	94.3	94.2	80.9	58.9	32.6	7.2	-13.4
14:00	68.5	88.6	89.3	75.9	54.5	29.6	5.8
15:00	23.4	57.3	77.8	80.4	67.5	47.6	24.8
16:00	-25.1	10.6	43.4	64.6	68.6	57.6	40.1
17:00	-60.0	-35.2	-1.7	30.1	51.2	57.0	48.7
18:00	-69.3	-63.8	-41.8	-10.9	19.3	40.6	48.2
19:00	-58.9	-66.7	-62.9	-44.1	-15.8	13.1	34.6
20:00	-35.5	-53.1	-60.7	-57.8	-42.0	-16.1	11.4
21:00	-3.3	-27.7	-45.0	-52.6	-50.1	-36.8	-13.2
22:00	31.7	4.8	-19.2	-36.2	-43.7	-42.1	-30.9
23:00	63.0	38.5	12.0	-11.6	-28.1	-35.9	-35.6
00:00	84.8	67.1	42.8	16.6	-6.0	-22.1	-30.4



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

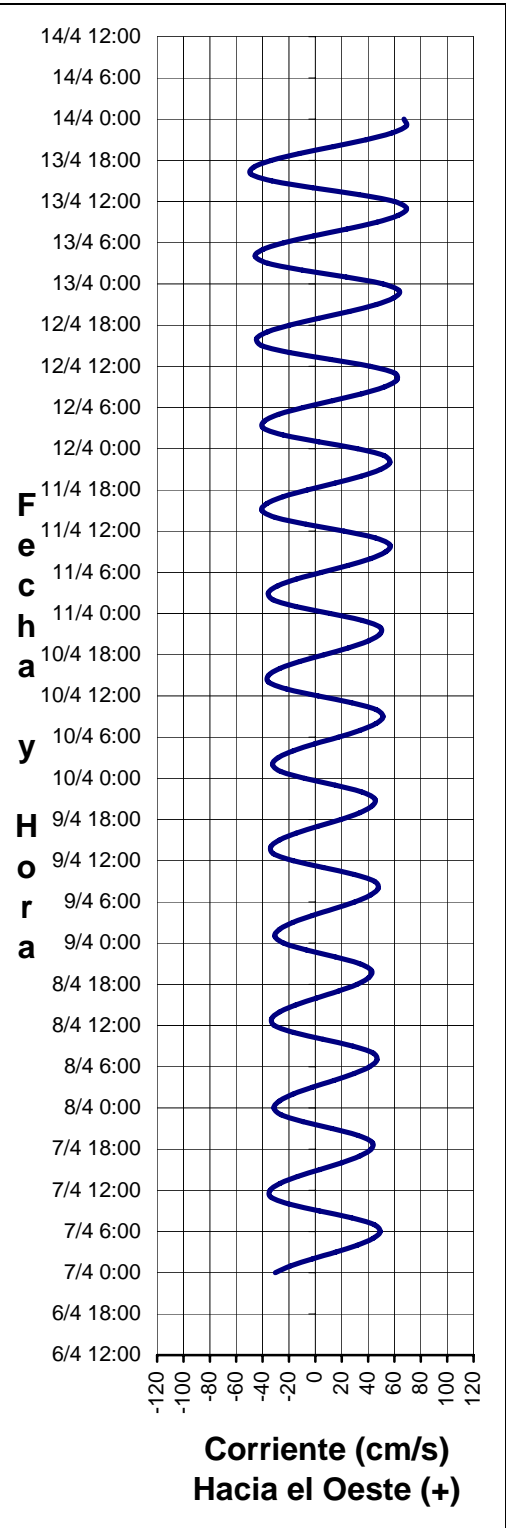
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 07/Abr/2010

Hasta 13/Abr/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	07/04	08/04	09/04	10/04	11/04	12/04	13/04
1	6:13	7:19	1:00	1:56	2:42	3:21	3:58
	49.4	47.0	-30.6	-32.5	-36.1	-40.8	-45.7
2	11:28	12:36	8:20	9:11	9:52	10:28	11:04
	-35.3	-33.6	48.1	51.5	56.7	63.0	69.2
3	18:39	19:48	13:36	14:25	15:05	15:41	16:16
	43.9	42.8	-34.4	-36.8	-40.6	-45.1	-49.6
4	23:55		20:48	21:36	22:17	22:53	23:29
	-31.4		45.5	50.4	56.9	63.7	70.3

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	07/04	08/04	09/04	10/04	11/04	12/04	13/04
00:00	-30.4	-31.4	-24.1	-8.3	11.3	31.9	51.4
01:00	-18.6	-27.3	-30.6	-26.3	-14.4	2.7	23.5
02:00	-2.3	-17.0	-27.1	-32.5	-32.1	-24.5	-9.8
03:00	15.6	-2.3	-17.1	-28.1	-35.7	-39.6	-36.1
04:00	31.9	14.2	-2.5	-16.8	-28.8	-38.7	-45.7
05:00	43.8	29.5	14.2	-0.6	-14.4	-27.8	-39.8
06:00	49.2	41.1	29.9	17.5	4.6	-9.4	-24.0
07:00	44.8	46.7	41.7	34.0	24.6	13.0	-1.3
08:00	27.5	43.7	47.6	46.1	42.0	34.9	23.9
09:00	3.2	28.5	44.9	51.3	53.4	52.3	46.8
10:00	-19.9	5.8	29.5	46.3	56.5	61.8	62.9
11:00	-33.6	-16.6	6.3	27.7	45.8	60.3	69.2
12:00	-34.3	-31.0	-16.8	2.0	21.8	41.7	60.0
13:00	-26.9	-33.1	-31.7	-21.8	-7.1	11.5	33.1
14:00	-13.6	-26.8	-33.8	-35.5	-30.6	-19.6	-2.1
15:00	3.1	-14.7	-27.3	-35.4	-40.5	-40.6	-33.1
16:00	20.0	1.1	-14.5	-26.8	-36.8	-44.6	-48.9
17:00	33.9	17.5	1.9	-11.9	-24.5	-36.4	-46.6
18:00	42.3	31.5	19.1	6.5	-6.2	-19.6	-33.4
19:00	43.1	40.5	33.7	25.0	14.9	2.5	-12.0
20:00	32.4	42.6	43.0	40.1	34.7	25.9	13.6
21:00	12.7	33.7	45.2	48.9	49.5	46.3	38.5
22:00	-9.3	15.0	35.4	49.2	56.6	59.7	58.2
23:00	-25.9	-6.8	15.1	35.4	52.2	63.6	68.9
00:00	-31.4	-24.1	-8.3	11.3	31.9	51.4	67.2



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

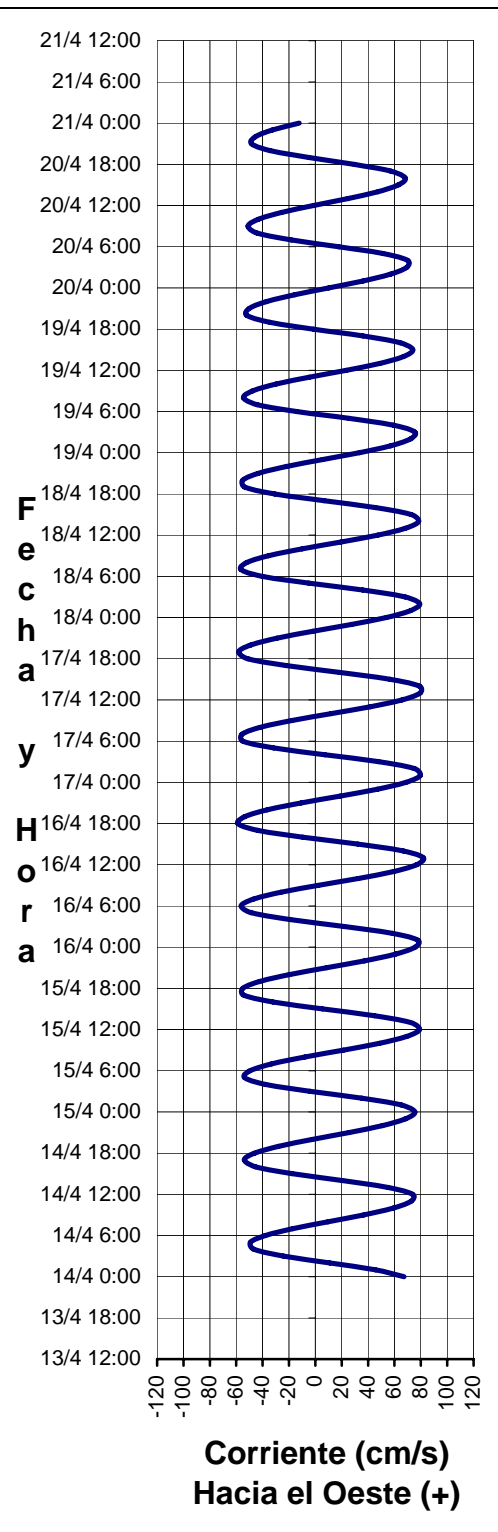
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 14/Abr/2010

Hasta 20/Abr/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	14/04	15/04	16/04	17/04	18/04	19/04	20/04
1	4:34	0:05	0:42	1:21	2:03	2:48	3:37
	-50.4	75.5	78.9	80.5	79.1	76.0	71.6
2	11:39	5:10	5:48	6:27	7:09	7:56	8:47
	75.2	-54.1	-56.6	-57.7	-56.8	-54.5	-51.3
3	16:51	12:15	12:53	13:33	14:16	15:04	15:57
	-53.9	79.4	82.0	81.5	78.9	73.9	68.2
4		17:27	18:06	18:46	19:30	20:18	21:12
		-57.0	-58.8	-58.5	-56.6	-53.0	-48.9

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	14/04	15/04	16/04	17/04	18/04	19/04	20/04
00:00	67.2	75.4	75.7	68.8	53.9	33.4	10.2
01:00	45.7	65.4	77.8	79.6	72.2	57.1	36.0
02:00	10.9	35.1	58.5	75.1	79.1	72.1	57.0
03:00	-24.2	-4.2	21.7	48.0	67.9	75.5	69.3
04:00	-46.7	-38.0	-18.9	7.4	35.9	59.2	70.0
05:00	-49.2	-53.8	-48.5	-31.7	-5.1	25.4	51.3
06:00	-38.1	-49.6	-56.3	-55.0	-40.2	-13.8	17.9
07:00	-17.2	-33.3	-47.0	-55.7	-56.4	-44.1	-18.3
08:00	9.4	-8.0	-26.1	-42.1	-52.2	-54.5	-44.3
09:00	36.6	21.3	2.3	-18.0	-35.6	-47.6	-51.1
10:00	59.1	48.8	32.7	11.8	-10.1	-29.8	-43.2
11:00	72.6	69.4	59.2	41.6	19.5	-4.5	-25.5
12:00	73.8	79.0	76.8	65.7	47.4	23.5	-1.4
13:00	55.0	72.6	81.8	79.4	68.4	48.9	24.6
14:00	20.5	44.9	66.7	78.9	78.4	66.9	47.5
15:00	-17.5	5.3	32.1	56.5	72.6	73.9	63.0
16:00	-45.5	-32.2	-9.6	18.3	45.7	64.4	68.2
17:00	-53.8	-54.3	-43.9	-22.3	6.7	36.0	57.2
18:00	-46.1	-55.1	-58.7	-51.0	-30.7	-1.3	29.6
19:00	-27.8	-42.4	-53.6	-58.1	-53.5	-34.5	-4.8
20:00	-2.3	-19.8	-36.6	-49.0	-55.1	-51.9	-34.3
21:00	25.6	8.5	-10.8	-29.0	-43.3	-50.3	-48.4
22:00	50.7	37.2	19.0	-1.8	-21.9	-37.2	-45.6
23:00	68.4	61.1	47.2	27.6	5.4	-15.8	-32.6
00:00	75.4	75.7	68.8	53.9	33.4	10.2	-12.2



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 21/Abr/2010

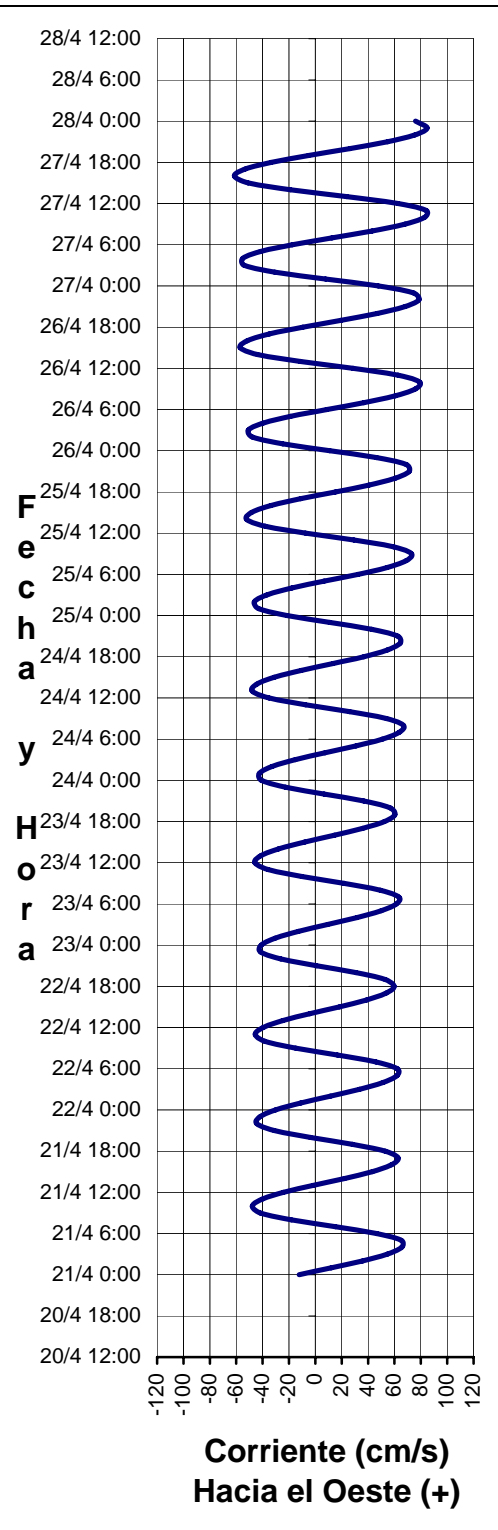
Hasta 27/Abr/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	21/04	22/04	23/04	24/04	25/04	26/04	27/04
1	4:33	5:36	6:44	0:32	1:37	2:35	3:28
	67.1	63.7	64.0	-43.6	-47.0	-51.9	-57.0
2	9:46	10:52	12:03	7:50	8:52	9:47	10:38
	-48.1	-45.7	-45.9	67.1	73.1	79.7	85.7
3	16:59	18:08	19:20	13:09	14:09	15:04	15:54
	62.7	59.8	60.9	-48.1	-52.4	-57.1	-61.5
4	22:13	23:22		20:27	21:27	22:21	23:11
	-44.9	-42.9		65.6	72.4	79.4	84.9

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	21/04	22/04	23/04	24/04	25/04	26/04	27/04
00:00	-12.2	-30.2	-41.0	-40.9	-21.6	11.0	47.6
01:00	12.1	-11.2	-30.5	-42.5	-42.9	-24.8	7.8
02:00	35.8	11.4	-12.7	-33.0	-46.2	-47.9	-30.8
03:00	54.7	33.7	9.3	-15.3	-36.7	-50.8	-54.0
04:00	65.5	51.6	31.5	7.3	-17.9	-39.8	-55.1
05:00	65.1	62.0	50.0	30.8	6.6	-18.7	-41.6
06:00	46.8	62.2	61.4	50.8	32.3	8.4	-17.6
07:00	15.3	45.8	63.3	63.6	54.5	36.6	12.5
08:00	-18.2	16.8	49.3	66.9	68.9	60.6	42.9
09:00	-41.9	-14.9	21.7	54.0	72.9	75.8	68.0
10:00	-47.9	-38.4	-10.3	26.1	59.5	79.1	82.9
11:00	-40.4	-45.6	-35.6	-7.4	29.2	62.7	84.0
12:00	-24.1	-39.6	-45.8	-35.2	-7.5	28.6	62.8
13:00	-1.9	-24.9	-41.4	-47.9	-38.1	-11.5	24.0
14:00	22.1	-4.4	-28.1	-44.4	-52.2	-43.8	-18.9
15:00	43.2	18.3	-8.2	-31.1	-48.4	-57.1	-51.1
16:00	57.7	38.9	14.6	-10.6	-33.8	-51.7	-61.4
17:00	62.7	53.6	36.0	13.4	-11.3	-34.8	-53.4
18:00	53.0	59.7	52.3	36.6	15.2	-9.5	-33.4
19:00	28.0	53.1	60.3	54.7	40.7	19.6	-5.2
20:00	-3.7	30.9	56.7	64.5	60.6	47.1	26.1
21:00	-31.0	1.0	36.6	62.5	71.2	68.0	54.8
22:00	-44.4	-26.3	6.6	42.6	68.9	78.6	75.6
23:00	-42.0	-41.5	-22.7	10.8	46.5	74.2	84.7
00:00	-30.2	-41.0	-40.9	-21.6	11.0	47.6	75.9



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

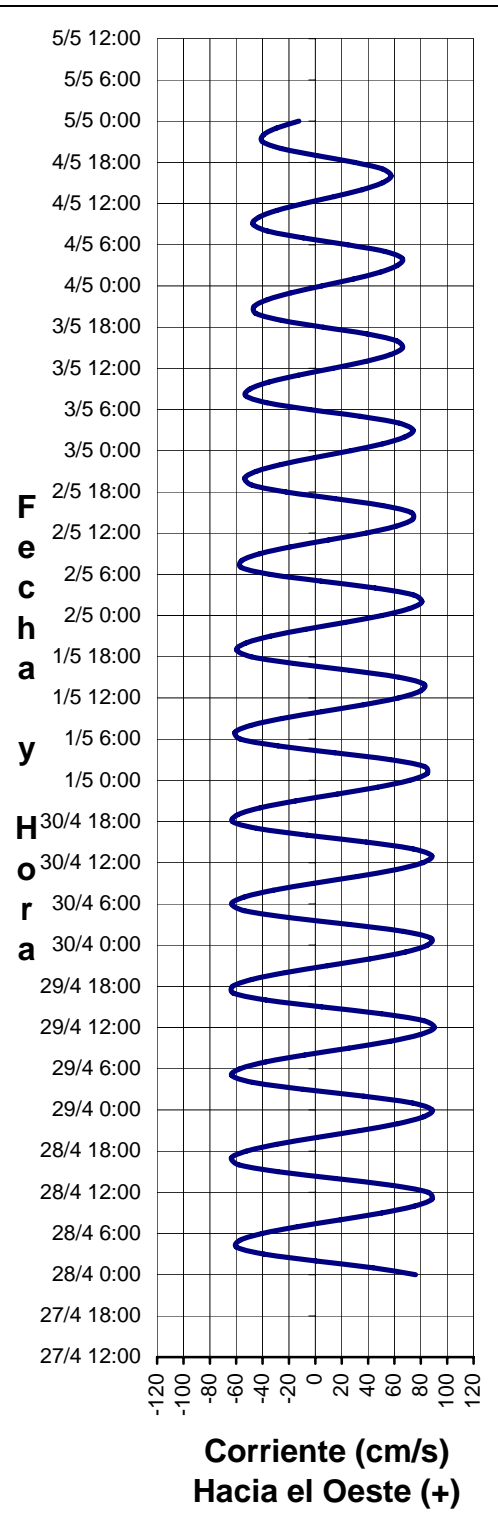
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 28/Abr/2010

Hasta 04/May/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	28/04	29/04	30/04	01/05	02/05	03/05	04/05
1	4:17	5:04	0:43	1:29	2:15	3:02	3:51
	-60.9	-63.5	88.8	86.5	81.2	74.2	66.1
2	11:26	12:13	5:50	6:37	7:24	8:12	9:03
	89.9	90.6	-63.7	-62.0	-58.3	-53.2	-47.4
3	16:41	17:26	12:58	13:44	14:30	15:18	16:09
	-64.5	-65.0	88.3	83.3	75.5	66.6	57.5
4	23:58		18:11	18:56	19:43	20:30	21:21
	88.6		-63.3	-59.8	-54.1	-47.7	-41.2

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	28/04	29/04	30/04	01/05	02/05	03/05	04/05
00:00	75.9	88.5	85.1	71.5	50.6	26.8	4.9
01:00	44.0	73.7	87.7	84.8	71.2	51.1	28.8
02:00	0.3	36.5	66.6	82.9	80.8	67.9	49.2
03:00	-39.0	-9.5	25.8	57.0	74.2	74.2	62.4
04:00	-59.7	-47.4	-19.9	14.8	45.3	63.6	65.9
05:00	-57.3	-63.4	-53.7	-28.3	4.2	34.0	52.9
06:00	-40.7	-57.3	-63.5	-56.7	-34.3	-4.1	24.6
07:00	-13.6	-37.6	-54.1	-61.0	-56.2	-36.9	-9.1
08:00	18.8	-8.1	-31.9	-49.0	-55.9	-52.7	-36.3
09:00	50.5	25.5	-1.4	-25.5	-42.2	-49.5	-47.3
10:00	75.2	56.8	31.8	4.9	-18.8	-35.2	-42.8
11:00	88.4	79.9	61.3	36.5	10.0	-12.8	-29.1
12:00	85.6	90.3	81.4	63.0	38.4	13.3	-8.8
13:00	58.6	82.2	88.3	79.5	61.2	38.2	14.2
14:00	15.6	50.1	74.3	82.4	73.8	57.0	35.4
15:00	-28.4	4.9	38.6	63.5	72.7	66.1	50.7
16:00	-58.1	-37.5	-6.3	26.3	51.0	61.6	57.3
17:00	-63.8	-62.3	-44.6	-16.0	15.2	39.0	51.2
18:00	-52.5	-62.8	-62.8	-48.5	-22.3	6.0	29.9
19:00	-29.3	-48.3	-58.9	-59.8	-48.1	-25.8	0.8
20:00	1.3	-22.8	-41.8	-52.6	-53.7	-45.2	-25.6
21:00	34.0	9.1	-15.0	-34.0	-44.7	-46.4	-40.1
22:00	62.6	41.5	16.6	-7.3	-25.8	-36.4	-39.3
23:00	82.0	68.5	47.3	22.7	-0.4	-18.2	-29.3
00:00	88.5	85.1	71.5	50.6	26.8	4.9	-12.5



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 05/May/2010

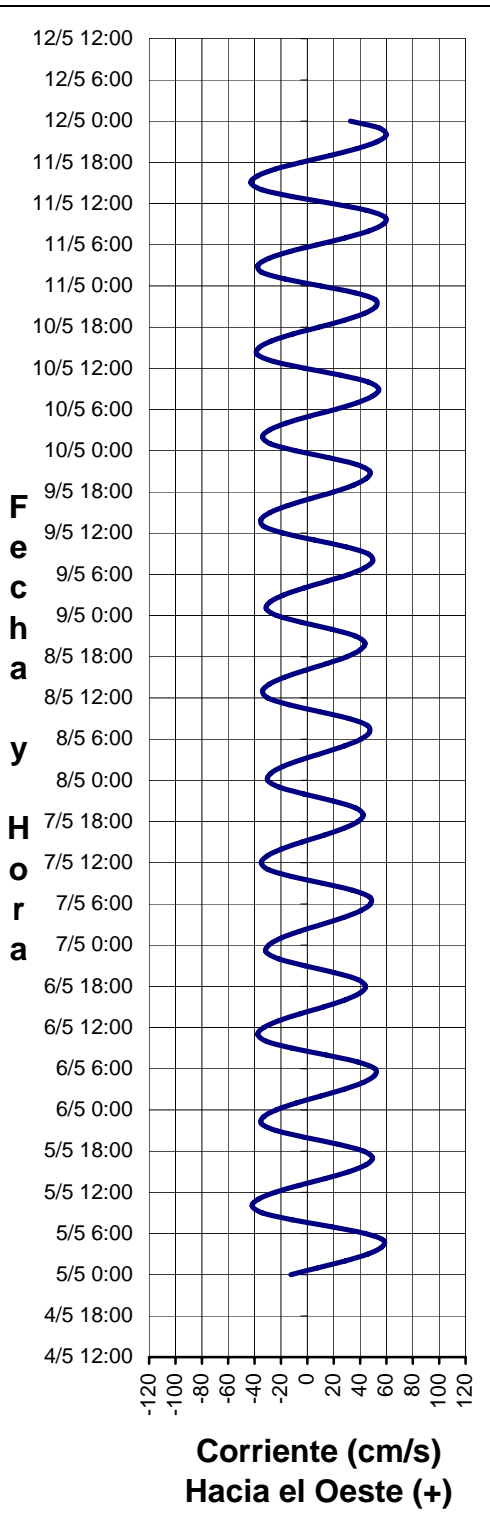
Hasta 11/May/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	05/05	06/05	07/05	08/05	09/05	10/05	11/05
1	4:42	5:37	6:32	0:10	1:05	1:53	2:37
	58.5	52.5	48.8	-30.3	-31.2	-34.0	-38.2
2	9:57	10:54	11:52	7:26	8:16	9:00	9:42
	-41.9	-37.6	-35.0	47.8	49.9	54.1	59.8
3	17:04	18:03	19:03	12:46	13:35	14:18	14:58
	49.4	44.1	42.3	-34.2	-35.7	-38.7	-42.9
4	22:15	23:12		20:00	20:50	21:33	22:15
	-35.3	-31.6		43.6	47.5	53.3	60.1

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	05/05	06/05	07/05	08/05	09/05	10/05	11/05
00:00	-12.5	-23.7	-29.3	-30.1	-23.1	-8.9	10.1
01:00	8.1	-8.5	-20.3	-27.8	-31.2	-27.9	-16.9
02:00	28.7	9.8	-6.1	-18.7	-28.0	-34.0	-34.8
03:00	45.8	27.8	10.8	-4.5	-17.8	-28.9	-37.5
04:00	56.3	42.5	27.3	12.1	-2.5	-16.3	-29.3
05:00	57.7	51.0	40.5	28.1	15.1	1.3	-13.3
06:00	44.2	51.3	47.8	40.5	31.5	20.6	7.3
07:00	18.1	38.1	47.3	47.1	43.8	37.9	28.7
08:00	-11.4	14.4	34.2	45.5	49.6	49.8	46.5
09:00	-34.0	-11.7	11.9	31.6	45.9	54.1	57.5
10:00	-41.9	-31.2	-12.1	9.3	29.3	46.3	59.0
11:00	-37.1	-37.6	-29.6	-13.9	5.2	25.2	45.2
12:00	-24.5	-33.0	-34.9	-30.0	-18.3	-1.8	18.7
13:00	-6.4	-21.5	-30.3	-34.0	-33.2	-25.6	-11.3
14:00	13.6	-5.3	-19.4	-28.8	-35.0	-38.0	-34.5
15:00	31.7	12.5	-4.1	-17.3	-28.1	-36.6	-42.9
16:00	44.4	28.6	12.7	-1.8	-14.9	-26.8	-37.9
17:00	49.4	39.8	27.7	15.0	2.2	-10.7	-24.4
18:00	42.8	44.1	38.3	29.8	19.9	8.7	-4.8
19:00	23.5	38.1	42.3	40.0	35.1	27.9	17.2
20:00	-1.6	20.6	36.4	43.6	44.9	43.2	37.7
21:00	-23.7	-2.1	19.4	36.7	47.3	52.0	52.8
22:00	-34.8	-21.7	-2.5	18.5	37.3	51.6	59.8
23:00	-33.1	-31.3	-21.3	-4.2	15.9	36.2	54.6
00:00	-23.7	-29.3	-30.1	-23.1	-8.9	10.1	32.6



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

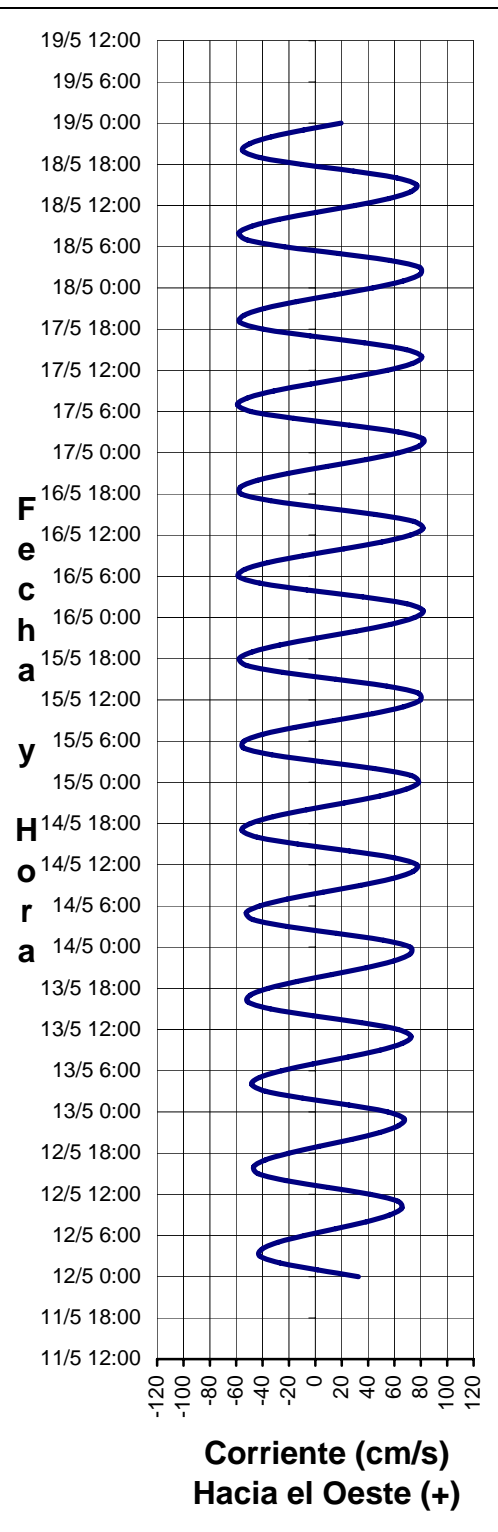
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 12/May/2010

Hasta 18/May/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	12/05	13/05	14/05	15/05	16/05	17/05	18/05
1	3:19	3:59	4:41	0:17	1:01	1:45	2:33
	-43.0	-48.3	-53.0	78.9	81.8	82.5	81.5
2	10:22	11:03	11:45	5:24	6:08	6:54	7:43
	66.3	72.6	77.6	-56.6	-58.6	-59.2	-58.5
3	15:38	16:18	16:59	12:29	13:13	14:01	14:51
	-47.6	-52.1	-55.6	81.2	82.0	80.7	77.1
4	22:55	23:36		17:42	18:26	19:14	20:03
	67.4	73.9		-58.3	-58.8	-57.9	-55.3

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	12/05	13/05	14/05	15/05	16/05	17/05	18/05
00:00	32.6	54.9	72.0	78.4	75.2	63.3	43.5
01:00	1.6	25.6	51.7	72.6	81.8	78.8	66.5
02:00	-26.8	-9.6	16.1	44.8	69.4	81.8	79.5
03:00	-42.1	-37.7	-21.5	4.7	35.9	63.1	79.0
04:00	-40.5	-48.3	-47.4	-33.0	-6.4	25.9	56.3
05:00	-28.4	-42.3	-52.4	-54.5	-42.2	-16.4	17.6
06:00	-8.5	-25.8	-42.2	-54.2	-58.4	-48.7	-23.3
07:00	15.4	-1.8	-21.5	-39.9	-53.6	-59.1	-51.7
08:00	38.5	24.9	5.8	-15.6	-36.0	-51.2	-58.0
09:00	56.4	49.1	34.4	14.1	-9.3	-31.4	-48.1
10:00	65.6	66.1	58.6	43.5	21.6	-3.5	-27.2
11:00	62.4	72.6	73.9	66.9	50.5	27.1	0.6
12:00	41.6	62.8	76.9	79.7	71.9	54.6	30.1
13:00	9.6	34.8	59.9	77.9	81.7	73.7	55.6
14:00	-22.4	-1.8	25.9	54.2	74.5	80.7	72.3
15:00	-43.5	-34.1	-13.4	15.6	45.5	69.1	76.8
16:00	-46.9	-51.1	-44.1	-24.5	4.6	37.2	61.9
17:00	-37.9	-49.2	-55.6	-52.0	-33.9	-3.8	29.0
18:00	-20.2	-35.9	-49.4	-57.7	-56.3	-39.5	-10.3
19:00	3.0	-14.1	-32.1	-47.8	-56.8	-57.2	-42.1
20:00	27.5	12.3	-6.8	-27.0	-43.6	-54.2	-55.2
21:00	48.8	38.4	21.9	0.8	-20.4	-38.9	-49.9
22:00	63.0	59.6	48.7	30.7	8.8	-14.4	-33.5
23:00	67.3	71.8	68.8	57.0	38.5	14.8	-8.8
00:00	54.9	72.0	78.4	75.2	63.3	43.5	19.5



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

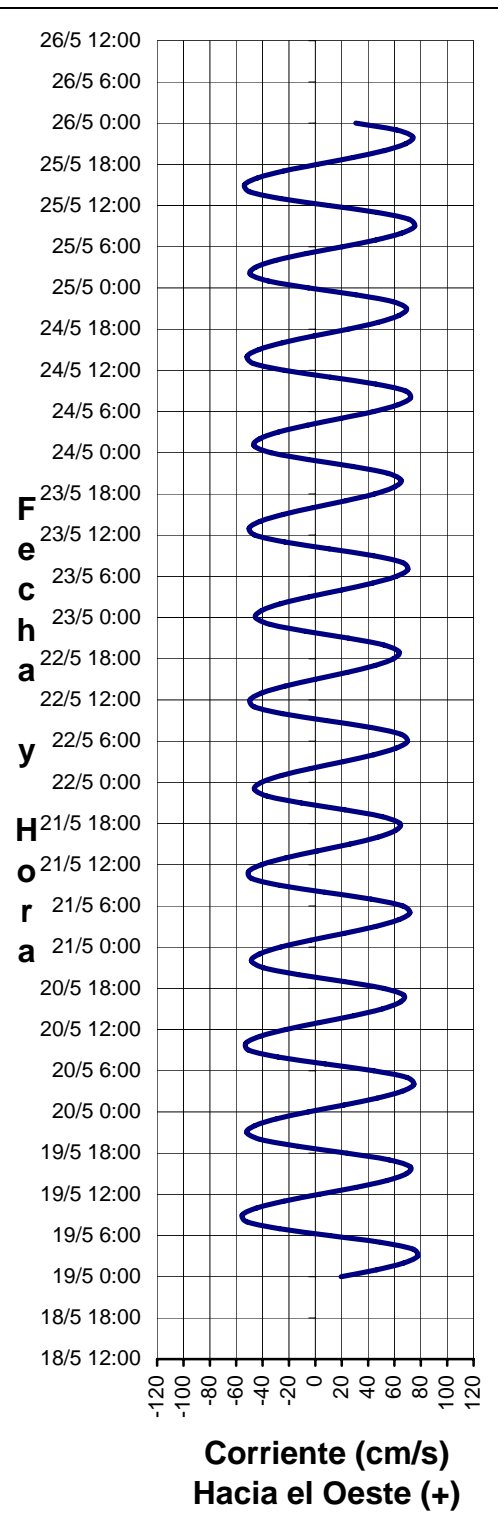
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 19/May/2010

Hasta 25/May/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	19/05	20/05	21/05	22/05	23/05	24/05	25/05
1	3:23	4:17	5:16	6:17	0:04	1:08	2:08
	78.6	75.2	72.1	70.3	-45.5	-46.6	-49.6
2	8:36	9:32	10:34	11:37	7:20	8:21	9:20
	-56.4	-53.9	-51.7	-50.4	70.8	72.9	76.0
3	15:46	16:45	17:49	18:55	12:41	13:42	14:38
	72.6	67.7	64.5	63.5	-50.8	-52.3	-54.5
4	20:58	21:56	22:59		20:00	21:01	21:58
	-52.1	-48.5	-46.2		65.0	69.2	73.9

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	19/05	20/05	21/05	22/05	23/05	24/05	25/05
00:00	19.5	-5.4	-26.4	-40.8	-45.4	-33.6	-5.2
01:00	46.4	21.7	-3.6	-25.6	-40.9	-46.4	-35.6
02:00	67.1	46.9	22.0	-3.7	-26.5	-42.5	-49.4
03:00	77.7	65.7	45.8	21.2	-4.8	-28.1	-45.3
04:00	74.1	74.7	63.4	44.3	20.0	-6.0	-30.1
05:00	49.3	69.5	71.7	61.6	43.5	19.7	-6.7
06:00	11.1	44.3	66.3	69.8	61.3	44.1	20.3
07:00	-27.2	7.5	42.2	65.0	70.2	62.7	46.1
08:00	-51.9	-28.3	7.1	42.0	66.3	72.2	65.6
09:00	-55.4	-50.6	-26.9	8.3	44.2	68.5	75.3
10:00	-44.7	-52.8	-48.2	-24.9	10.6	45.9	71.0
11:00	-24.0	-42.1	-50.7	-46.4	-23.2	11.4	46.7
12:00	2.9	-22.3	-40.8	-49.6	-45.8	-23.5	10.2
13:00	30.7	3.0	-22.3	-40.6	-50.2	-47.0	-26.1
14:00	54.2	28.9	1.6	-23.0	-41.8	-51.8	-49.9
15:00	69.0	50.8	26.4	0.0	-24.5	-43.1	-53.7
16:00	72.0	64.4	47.4	24.2	-1.5	-25.0	-43.9
17:00	56.1	67.0	60.9	45.2	23.1	-0.9	-24.4
18:00	24.0	51.8	64.2	59.1	44.8	24.9	1.3
19:00	-13.0	21.6	50.8	63.4	59.7	47.7	28.5
20:00	-41.7	-12.9	22.5	52.0	65.0	63.4	52.3
21:00	-52.1	-39.4	-10.6	25.2	55.1	69.2	68.4
22:00	-45.9	-48.5	-36.6	-7.5	28.4	58.9	73.9
23:00	-29.4	-42.4	-46.2	-34.3	-5.2	30.7	61.7
00:00	-5.4	-26.4	-40.8	-45.4	-33.6	-5.2	30.7



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

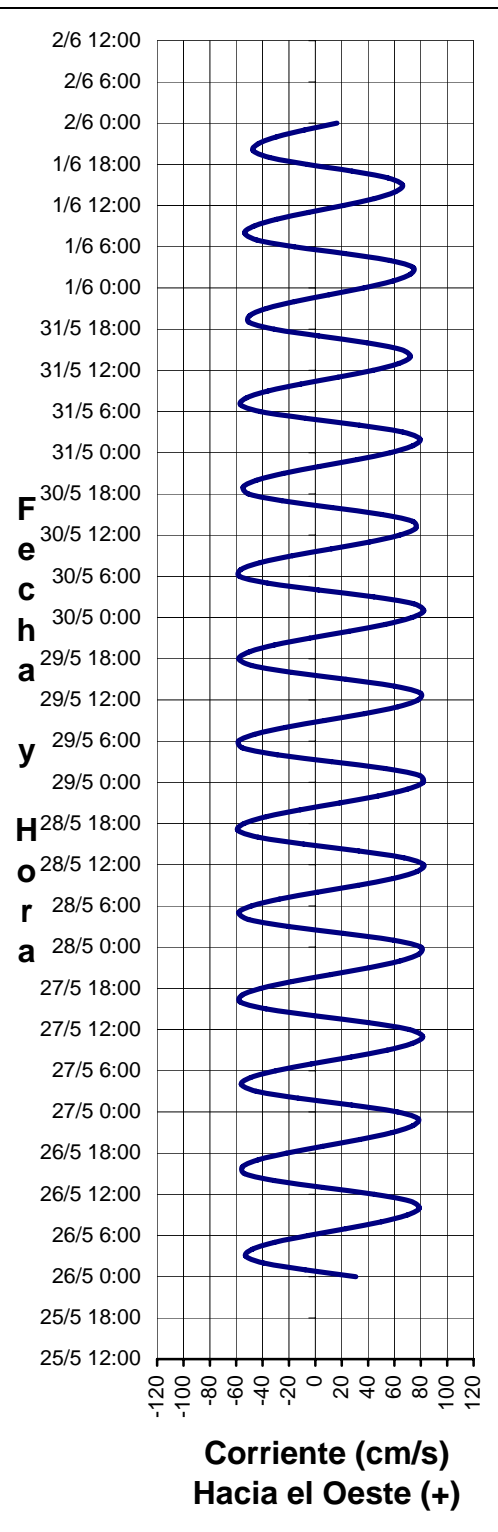
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 26/May/2010

Hasta 01/Jun/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	26/05	27/05	28/05	29/05	30/05	31/05	01/06
1	3:05	3:57	4:47	0:27	1:13	1:58	2:42
	-53.0	-56.2	-58.5	83.1	82.5	79.4	75.0
2	10:13	11:05	11:53	5:34	6:21	7:07	7:53
	79.1	81.5	82.3	-59.6	-59.2	-57.0	-53.8
3	15:30	16:20	17:07	12:40	13:27	14:12	14:58
	-56.8	-58.5	-59.0	81.0	77.6	72.4	66.1
4	22:51	23:40		17:53	18:38	19:23	20:07
	78.4	81.5		-58.1	-55.6	-51.9	-47.4

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	26/05	27/05	28/05	29/05	30/05	31/05	01/06
00:00	30.7	62.2	80.0	81.7	73.2	56.8	36.8
01:00	-7.7	27.6	59.3	79.0	82.2	73.7	58.7
02:00	-39.4	-13.1	21.2	53.2	74.6	79.4	72.1
03:00	-52.9	-44.9	-20.5	12.2	44.4	66.3	74.0
04:00	-47.7	-56.2	-50.5	-28.9	2.4	33.4	56.2
05:00	-30.9	-49.0	-58.1	-55.2	-36.2	-7.5	22.2
06:00	-5.7	-30.1	-48.5	-58.3	-57.5	-41.6	-16.0
07:00	23.1	-3.0	-27.3	-46.0	-56.4	-56.8	-44.6
08:00	49.9	27.1	1.5	-22.8	-41.9	-52.1	-53.7
09:00	69.8	54.5	32.2	6.9	-17.4	-35.8	-46.6
10:00	78.8	73.8	59.1	37.3	12.1	-11.1	-29.3
11:00	72.1	81.5	76.9	62.6	41.1	17.3	-5.1
12:00	44.7	71.2	82.1	77.9	64.0	43.8	21.2
13:00	5.9	40.3	67.2	79.6	76.2	63.3	44.7
14:00	-31.2	-0.6	32.9	60.0	73.9	72.1	60.7
15:00	-53.7	-37.3	-8.9	23.2	50.4	65.3	66.1
16:00	-55.3	-57.1	-43.5	-17.7	12.9	39.1	55.2
17:00	-43.5	-55.6	-58.8	-48.3	-25.3	2.6	27.8
18:00	-21.9	-41.4	-54.1	-58.0	-50.6	-31.2	-6.2
19:00	5.6	-17.5	-37.3	-50.3	-54.9	-50.2	-34.6
20:00	34.0	11.5	-11.6	-31.2	-44.5	-49.7	-47.2
21:00	58.3	40.6	18.4	-4.3	-24.0	-37.2	-43.3
22:00	73.9	64.4	47.3	25.6	3.1	-16.0	-29.4
23:00	78.1	78.7	69.8	53.1	31.7	10.3	-8.3
00:00	62.2	80.0	81.7	73.2	56.8	36.8	16.4



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

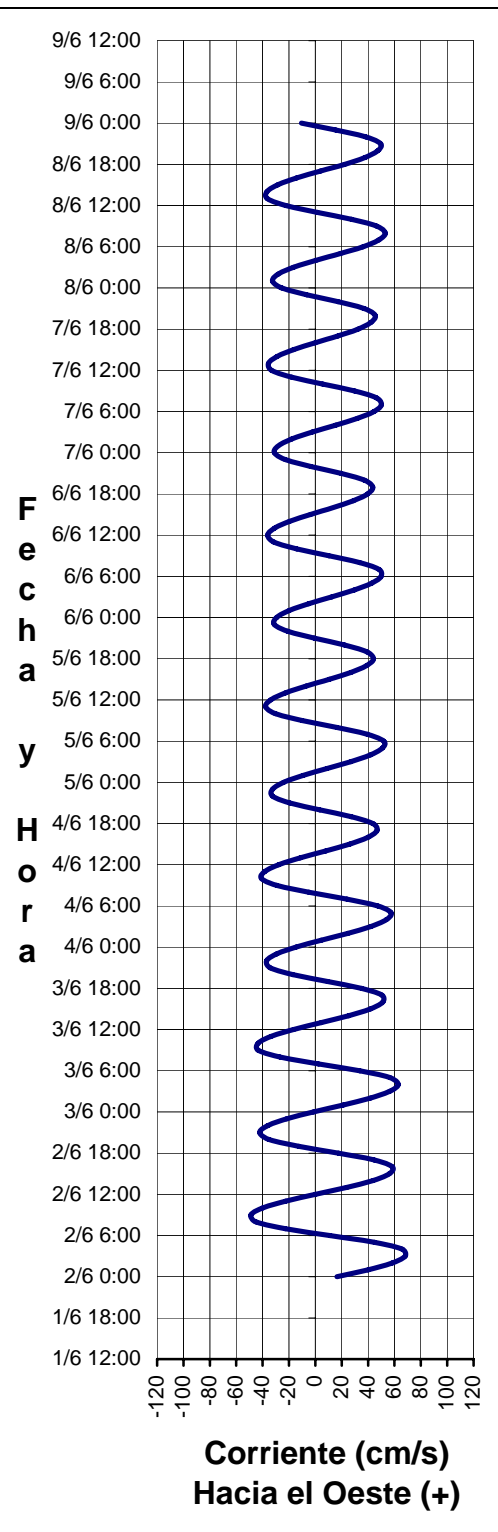
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 02/Jun/2010

Hasta 08/Jun/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	02/06	03/06	04/06	05/06	06/06	07/06	08/06
1	3:26	4:10	4:54	5:40	6:26	0:06	0:58
	69.2	63.0	57.5	52.8	50.7	-31.2	-32.5
2	8:38	9:25	10:11	10:59	11:48	7:15	8:05
	-49.6	-45.1	-41.2	-37.8	-36.3	50.4	53.0
3	15:44	16:31	17:19	18:10	19:03	12:37	13:27
	59.0	52.5	47.3	44.1	43.6	-36.1	-38.0
4	20:52	21:37	22:24	23:14		19:55	20:47
	-42.3	-37.6	-33.8	-31.6		45.5	49.9

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	02/06	03/06	04/06	05/06	06/06	07/06	08/06
00:00	16.4	-1.4	-14.7	-24.0	-29.3	-31.1	-25.5
01:00	40.0	21.1	4.5	-9.4	-20.0	-28.1	-32.5
02:00	58.4	41.6	24.7	8.7	-5.1	-17.8	-28.2
03:00	68.2	56.4	42.3	27.0	12.5	-2.4	-16.5
04:00	65.9	62.8	53.9	42.0	29.5	15.4	0.3
05:00	44.8	56.5	57.4	51.0	42.8	32.0	19.1
06:00	11.3	33.7	47.4	51.9	49.9	44.4	36.1
07:00	-22.7	2.3	24.0	39.5	48.4	50.2	48.2
08:00	-45.2	-26.8	-4.9	16.3	33.8	46.3	53.0
09:00	-48.9	-43.4	-29.3	-9.9	10.3	29.7	46.6
10:00	-40.1	-43.5	-40.9	-30.2	-14.2	5.6	27.3
11:00	-22.6	-33.6	-38.4	-37.8	-31.5	-18.0	1.4
12:00	0.2	-16.5	-27.8	-33.9	-36.1	-33.2	-22.5
13:00	23.8	4.4	-11.3	-23.0	-31.0	-35.6	-36.4
14:00	43.8	25.2	7.9	-7.1	-19.5	-29.2	-36.8
15:00	56.2	41.9	26.2	10.7	-3.7	-16.6	-28.7
16:00	58.4	51.2	40.0	27.0	13.5	-0.2	-14.3
17:00	44.6	50.5	46.9	38.9	28.8	17.2	3.7
18:00	17.6	35.0	43.7	44.0	39.6	32.2	22.2
19:00	-12.7	9.4	27.3	39.2	43.6	42.3	37.7
20:00	-35.3	-17.0	3.3	22.2	37.3	45.4	47.4
21:00	-42.2	-34.3	-19.4	-0.7	19.4	37.1	49.5
22:00	-36.2	-37.0	-32.5	-21.0	-3.5	17.3	38.3
23:00	-21.7	-29.5	-32.4	-31.2	-22.7	-6.6	15.4
00:00	-1.4	-14.7	-24.0	-29.3	-31.1	-25.5	-10.6



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

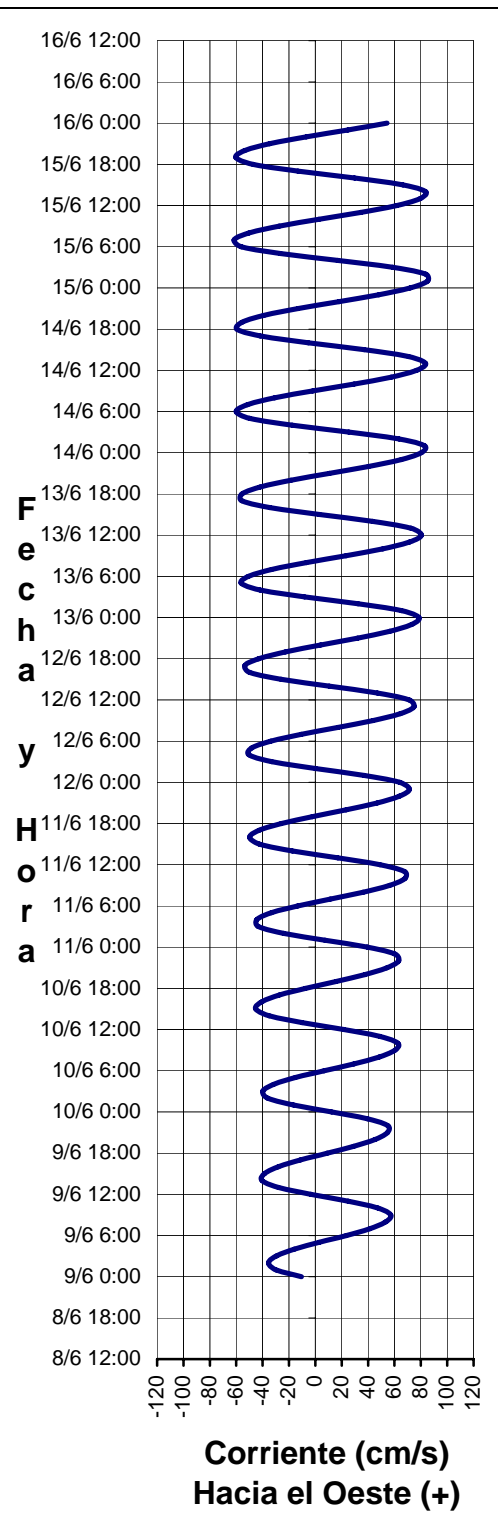
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 09/Jun/2010

Hasta 15/Jun/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	09/06	10/06	11/06	12/06	13/06	14/06	15/06
1	1:50	2:40	3:29	4:17	5:05	0:44	1:31
	-35.7	-40.4	-45.9	-51.3	-56.4	83.8	87.0
2	8:55	9:44	10:33	11:22	12:11	5:53	6:41
	57.2	63.2	69.7	75.8	80.7	-60.1	-62.4
3	14:16	15:03	15:50	16:37	17:24	12:59	13:49
	-41.0	-45.3	-50.0	-54.3	-57.9	83.6	84.1
4	21:36	22:24	23:11	23:57		18:12	19:00
	56.4	64.0	71.6	78.6		-60.0	-60.3

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	09/06	10/06	11/06	12/06	13/06	14/06	15/06
00:00	-10.6	12.3	39.5	64.0	78.6	80.4	71.9
01:00	-30.0	-16.5	7.3	37.0	65.4	82.9	85.2
02:00	-35.6	-36.2	-24.2	0.2	32.4	63.4	83.8
03:00	-29.7	-39.9	-43.4	-33.0	-8.3	25.3	58.6
04:00	-16.0	-31.7	-44.4	-50.3	-41.9	-17.6	16.8
05:00	2.9	-15.2	-33.3	-48.2	-56.3	-49.9	-26.6
06:00	23.4	6.6	-13.5	-33.9	-50.9	-60.1	-56.0
07:00	41.4	29.2	11.3	-10.6	-33.3	-51.6	-61.7
08:00	53.4	48.4	36.2	17.1	-6.9	-30.9	-50.4
09:00	57.1	60.4	56.4	43.8	23.2	-2.1	-27.5
10:00	47.6	62.6	68.0	64.4	51.1	29.4	2.8
11:00	24.8	48.9	67.7	74.9	71.5	57.5	34.6
12:00	-3.5	21.6	49.1	71.1	80.5	76.8	61.9
13:00	-28.0	-9.9	17.0	47.1	72.5	83.6	79.4
14:00	-40.4	-35.1	-17.5	10.5	43.4	70.7	83.7
15:00	-38.6	-45.3	-42.6	-26.1	3.0	37.1	66.4
16:00	-28.2	-40.9	-49.9	-49.9	-34.4	-5.4	29.8
17:00	-11.3	-27.5	-42.7	-53.5	-55.8	-41.8	-13.2
18:00	9.0	-7.5	-25.9	-43.1	-55.6	-59.4	-47.2
19:00	29.1	15.6	-2.5	-22.7	-42.1	-55.7	-60.3
20:00	45.3	37.5	23.3	3.9	-18.5	-39.2	-53.7
21:00	54.8	54.4	46.9	32.0	10.8	-13.1	-34.8
22:00	55.0	63.2	63.9	56.6	40.4	17.9	-6.9
23:00	39.5	60.4	71.4	73.1	65.1	48.0	24.7
00:00	12.3	39.5	64.0	78.6	80.4	71.9	54.3



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

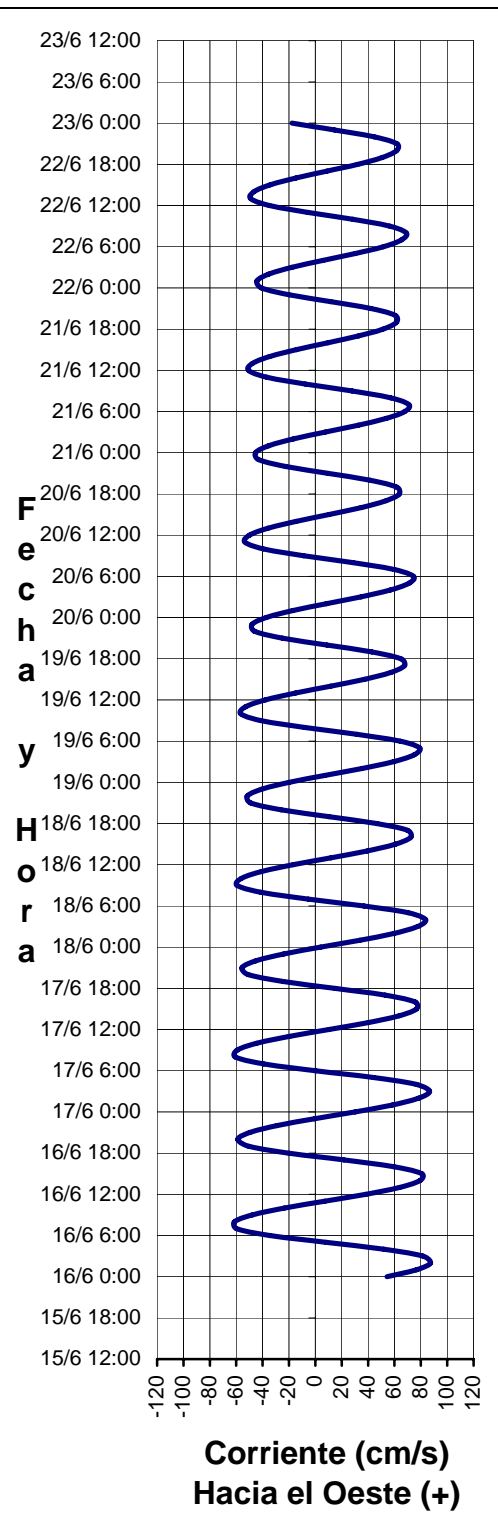
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 16/Jun/2010

Hasta 22/Jun/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	16/06	17/06	18/06	19/06	20/06	21/06	22/06
1	2:18	3:07	3:58	4:51	5:48	6:49	0:38
	88.0	86.7	83.6	79.4	75.0	71.3	-45.1
2	7:30	8:20	9:13	10:09	11:09	12:11	7:51
	-63.2	-62.2	-60.0	-57.0	-53.8	-51.1	69.2
3	14:39	15:31	16:26	17:24	18:27	19:31	13:14
	82.3	78.6	73.7	68.7	64.8	63.0	-49.6
4	19:49	20:40	21:34	22:32	23:34		20:36
	-59.0	-56.4	-52.8	-49.2	-46.4		63.5

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	16/06	17/06	18/06	19/06	20/06	21/06	22/06
00:00	54.3	30.2	4.0	-19.8	-37.3	-45.4	-40.9
01:00	76.6	58.3	33.8	7.2	-17.3	-35.5	-44.4
02:00	87.4	78.4	59.9	35.2	8.2	-16.7	-35.4
03:00	81.5	86.6	77.6	59.3	34.6	7.5	-17.6
04:00	51.8	76.6	83.6	74.9	56.9	32.6	5.8
05:00	8.1	44.1	70.4	79.2	71.2	54.0	30.4
06:00	-34.1	0.4	36.9	64.4	74.6	67.7	51.5
07:00	-59.7	-39.1	-5.3	31.5	59.8	71.0	65.3
08:00	-61.4	-60.6	-41.5	-8.3	28.5	57.2	69.0
09:00	-47.9	-59.3	-59.3	-41.4	-8.8	27.8	56.5
10:00	-23.5	-44.5	-56.2	-56.6	-39.6	-7.6	28.4
11:00	7.2	-19.7	-41.0	-52.8	-53.5	-37.0	-5.8
12:00	38.3	10.3	-16.8	-38.0	-49.8	-50.8	-34.8
13:00	64.0	40.0	11.8	-15.1	-35.9	-47.7	-49.1
14:00	79.3	63.6	39.5	11.7	-14.5	-34.7	-46.6
15:00	80.7	76.8	61.0	37.5	10.6	-14.5	-34.4
16:00	59.8	75.7	72.5	57.4	34.8	9.5	-14.7
17:00	21.7	52.9	69.9	67.7	53.6	32.8	8.8
18:00	-20.0	15.0	46.8	64.9	63.7	51.2	32.0
19:00	-50.4	-24.3	10.5	42.8	61.6	61.5	50.7
20:00	-58.8	-50.8	-25.8	8.8	41.5	60.7	61.6
21:00	-49.9	-55.7	-49.0	-24.9	9.6	42.3	61.9
22:00	-29.3	-45.3	-51.7	-46.1	-22.5	11.7	44.7
23:00	-0.9	-24.1	-40.7	-48.0	-43.0	-19.9	14.5
00:00	30.2	4.0	-19.8	-37.3	-45.4	-40.9	-17.7



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 23/Jun/2010

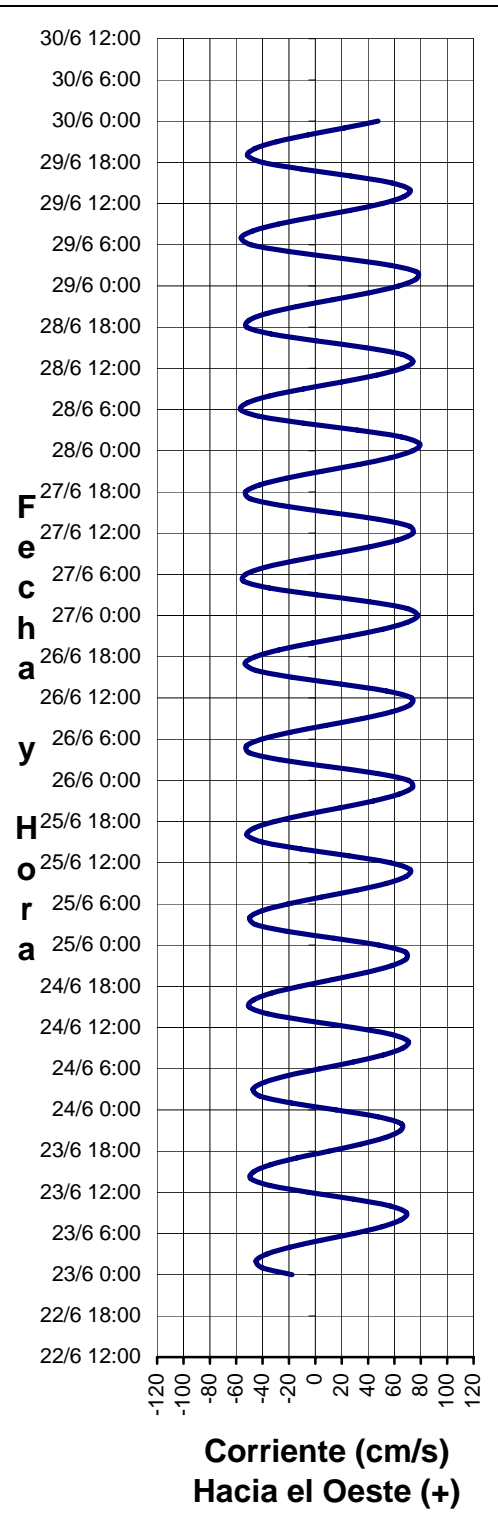
Hasta 29/Jun/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	23/06	24/06	25/06	26/06	27/06	28/06	29/06
1	1:43	2:44	3:40	4:32	0:11	0:56	1:38
	-45.5	-47.7	-50.6	-53.6	77.8	79.1	78.9
2	8:53	9:52	10:47	11:38	5:19	6:04	6:47
	69.2	70.5	72.4	74.4	-55.8	-56.8	-56.6
3	14:14	15:11	16:02	16:51	12:25	13:09	13:52
	-49.6	-50.6	-51.9	-53.4	75.2	74.2	71.8
4	21:37	22:33	23:24		17:37	18:19	19:01
	66.6	70.5	74.7		-53.9	-53.2	-51.5

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	23/06	24/06	25/06	26/06	27/06	28/06	29/06
00:00	-17.7	15.8	48.1	70.5	77.6	73.9	63.3
01:00	-40.2	-18.1	14.1	46.6	69.8	79.1	76.5
02:00	-45.1	-42.0	-21.4	9.5	41.0	65.2	77.2
03:00	-36.7	-47.4	-45.5	-27.1	1.2	31.8	56.8
04:00	-19.2	-38.9	-49.9	-50.1	-35.0	-9.0	19.9
05:00	4.2	-20.8	-40.3	-52.2	-54.5	-42.6	-20.0
06:00	29.0	3.4	-20.9	-40.6	-52.9	-56.7	-48.8
07:00	50.6	29.2	4.6	-19.2	-38.7	-51.4	-56.3
08:00	64.9	51.5	31.3	8.0	-15.1	-34.4	-47.6
09:00	69.1	66.2	54.1	35.6	13.3	-9.0	-28.2
10:00	57.1	70.4	68.6	58.4	41.0	19.8	-1.9
11:00	29.2	57.6	71.9	71.9	62.6	46.4	26.3
12:00	-5.2	28.6	56.8	72.9	74.1	65.7	50.9
13:00	-34.6	-6.7	25.6	54.0	71.4	74.0	67.1
14:00	-49.0	-36.3	-10.9	19.8	48.0	66.0	71.7
15:00	-46.6	-50.2	-40.1	-17.7	11.5	38.2	57.8
16:00	-34.1	-46.9	-51.9	-45.2	-25.4	0.5	26.8
17:00	-13.9	-33.3	-46.7	-53.2	-49.5	-33.7	-10.3
18:00	10.2	-11.9	-31.1	-45.6	-53.0	-52.0	-40.0
19:00	34.0	13.4	-7.9	-27.5	-42.5	-50.4	-51.5
20:00	53.3	38.1	18.8	-2.3	-22.0	-36.8	-45.8
21:00	64.6	57.8	44.1	25.6	4.8	-14.1	-29.5
22:00	65.1	68.9	63.6	51.0	33.0	13.5	-5.4
23:00	47.4	68.2	73.7	69.5	57.5	40.9	21.9
00:00	15.8	48.1	70.5	77.6	73.9	63.3	47.5



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

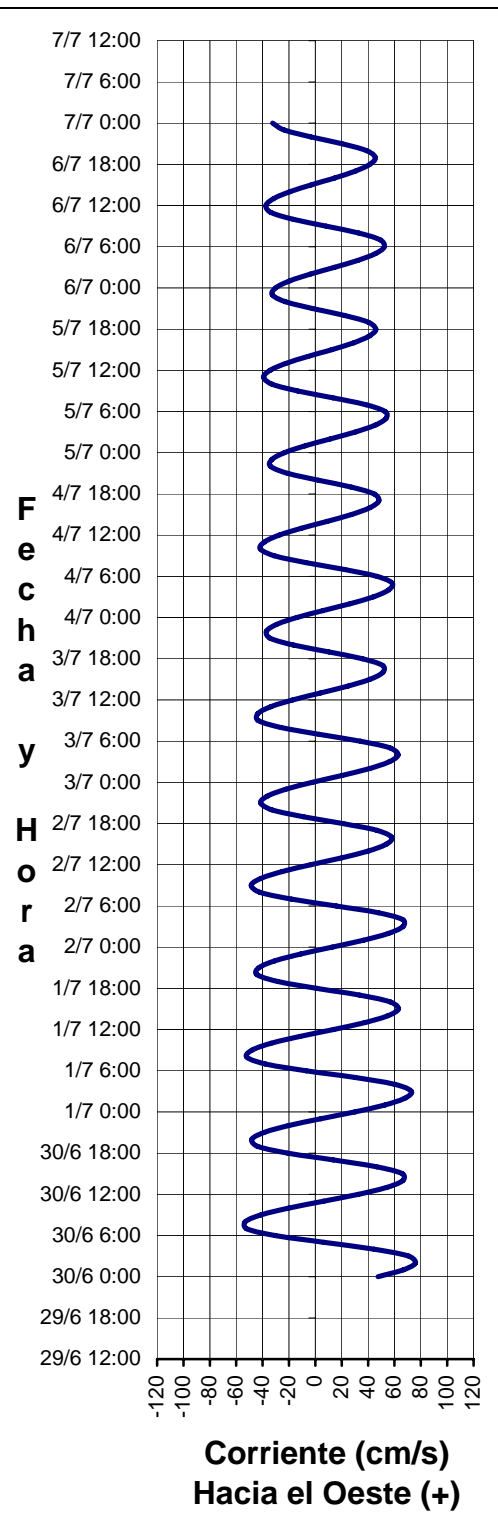
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 30/Jun/2010

Hasta 06/Jul/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	30/06	01/07	02/07	03/07	04/07	05/07	06/07
1	2:18	2:56	3:34	4:11	4:49	5:31	6:19
	76.5	72.9	68.2	63.0	58.5	54.9	52.8
2	7:28	8:08	8:47	9:26	10:07	10:52	11:43
	-54.9	-52.3	-48.9	-45.1	-41.9	-39.3	-37.8
3	14:33	15:13	15:53	16:34	17:18	18:07	19:03
	68.2	63.2	58.0	52.8	48.6	46.0	45.5
4	19:40	20:19	20:57	21:37	22:20	23:10	
	-48.9	-45.3	-41.5	-37.8	-34.8	-32.9	

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	30/06	01/07	02/07	03/07	04/07	05/07	06/07
00:00	47.5	30.0	12.9	-2.2	-14.1	-23.5	-30.1
01:00	66.7	52.7	36.6	20.4	5.7	-7.8	-19.8
02:00	76.0	67.9	55.6	41.1	26.4	11.3	-3.9
03:00	70.7	72.8	66.5	56.2	44.0	30.2	14.7
04:00	44.6	60.5	66.2	62.8	55.4	45.2	32.3
05:00	6.4	30.3	47.7	56.6	58.2	53.7	45.7
06:00	-30.2	-7.0	15.9	34.1	46.8	53.0	52.3
07:00	-52.1	-38.1	-18.1	2.8	22.2	38.3	49.3
08:00	-53.2	-52.1	-42.4	-26.3	-7.1	13.3	32.9
09:00	-41.3	-48.0	-48.6	-43.3	-31.2	-13.5	8.1
10:00	-20.1	-33.6	-41.4	-43.6	-41.8	-33.2	-16.9
11:00	6.3	-11.5	-25.2	-34.0	-38.6	-39.2	-33.8
12:00	32.7	13.8	-3.4	-17.1	-27.5	-34.3	-37.5
13:00	54.2	37.5	20.0	3.8	-10.5	-22.5	-31.7
14:00	66.3	55.0	40.5	24.7	9.0	-5.8	-19.5
15:00	66.0	62.9	54.0	41.6	27.5	12.5	-3.0
16:00	46.5	57.0	57.9	51.2	41.5	29.1	14.7
17:00	13.6	33.6	46.6	51.1	48.2	41.0	30.4
18:00	-20.7	1.2	21.1	36.0	44.7	45.9	41.3
19:00	-44.0	-28.4	-9.2	10.1	27.3	40.3	45.4
20:00	-48.3	-44.3	-33.0	-16.7	2.3	22.0	38.9
21:00	-39.1	-42.8	-41.5	-34.4	-21.0	-2.0	20.2
22:00	-20.6	-30.9	-36.3	-37.1	-33.8	-22.9	-3.6
23:00	4.0	-11.1	-22.3	-29.3	-32.9	-32.7	-23.6
00:00	30.0	12.9	-2.2	-14.1	-23.5	-30.1	-32.4



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

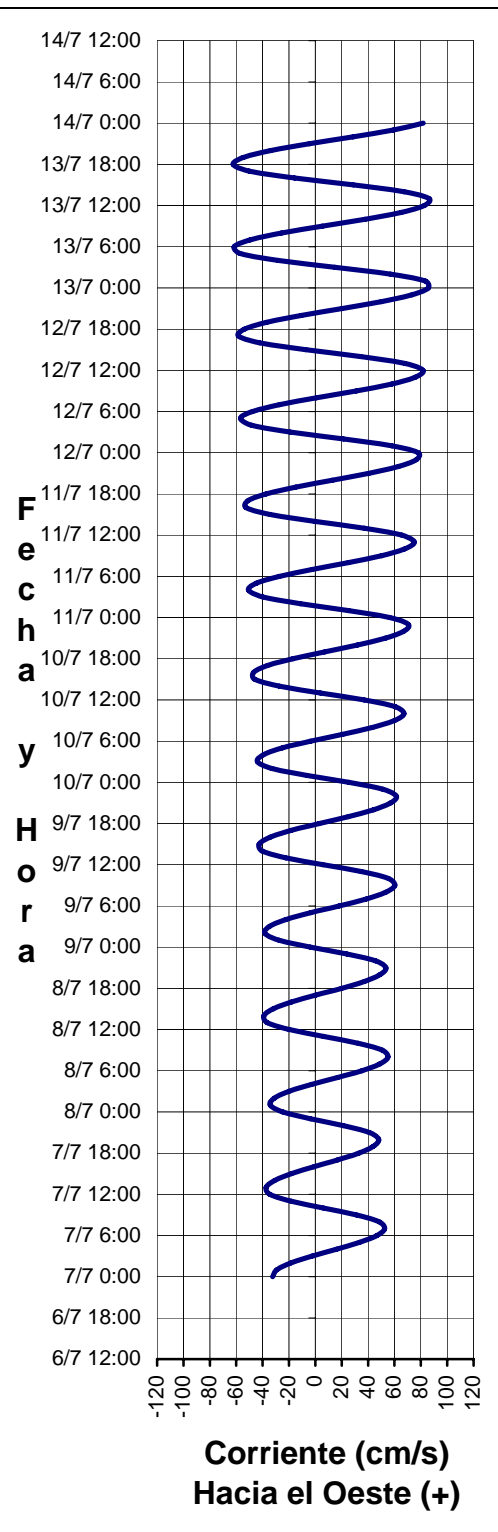
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 07/Jul/2010

Hasta 13/Jul/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	07/07	08/07	09/07	10/07	11/07	12/07	13/07
1	0:06	1:07	2:08	3:05	3:59	4:49	0:28
	-32.5	-34.4	-38.3	-44.0	-50.8	-57.0	87.2
2	7:14	8:14	9:14	10:11	11:05	11:56	5:38
	52.8	55.4	60.6	67.4	75.0	81.8	-62.6
3	12:39	13:38	14:35	15:29	16:20	17:09	12:46
	-37.8	-39.7	-43.4	-48.3	-53.8	-58.6	87.0
4	20:02	21:02	21:58	22:51	23:40		17:57
	48.1	53.5	61.4	70.8	79.4		-62.4

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	07/07	08/07	09/07	10/07	11/07	12/07	13/07
00:00	-32.4	-24.8	-3.9	25.4	56.3	78.0	85.8
01:00	-29.3	-34.3	-27.5	-6.4	25.3	58.1	83.3
02:00	-18.6	-31.1	-38.2	-32.8	-11.2	21.3	57.0
03:00	-2.4	-19.9	-34.8	-43.9	-40.1	-19.1	14.7
04:00	16.2	-2.8	-22.5	-39.5	-50.7	-48.6	-28.4
05:00	33.6	16.8	-3.7	-25.1	-44.5	-56.7	-57.0
06:00	46.5	35.2	18.0	-3.7	-27.3	-47.8	-61.6
07:00	52.5	48.9	38.3	20.7	-2.6	-27.3	-49.6
08:00	48.5	55.1	53.4	43.4	25.0	0.8	-25.7
09:00	31.2	50.7	60.3	59.9	50.1	31.1	5.4
10:00	6.1	32.4	55.4	67.2	67.9	57.8	37.8
11:00	-18.4	6.0	35.1	60.7	74.9	75.9	65.3
12:00	-34.5	-19.8	5.9	37.0	65.5	81.7	82.7
13:00	-37.3	-36.5	-22.4	3.8	37.1	68.0	86.3
14:00	-31.0	-39.1	-40.3	-27.3	-0.6	34.3	67.3
15:00	-18.2	-32.1	-42.6	-45.9	-34.3	-7.3	28.7
16:00	-1.2	-18.1	-34.2	-46.9	-52.5	-42.3	-15.8
17:00	16.9	0.3	-18.1	-36.3	-51.1	-58.3	-50.2
18:00	32.9	19.9	2.8	-17.2	-37.5	-53.9	-62.4
19:00	43.9	37.1	24.8	7.0	-14.8	-36.9	-54.7
20:00	48.1	49.1	44.1	32.0	12.8	-10.6	-34.2
21:00	41.0	53.5	57.0	53.2	40.5	20.2	-4.6
22:00	21.4	45.8	61.4	66.9	63.1	50.0	28.5
23:00	-3.6	24.0	51.1	70.5	76.7	73.2	59.2
00:00	-24.8	-3.9	25.4	56.3	78.0	85.8	81.8



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

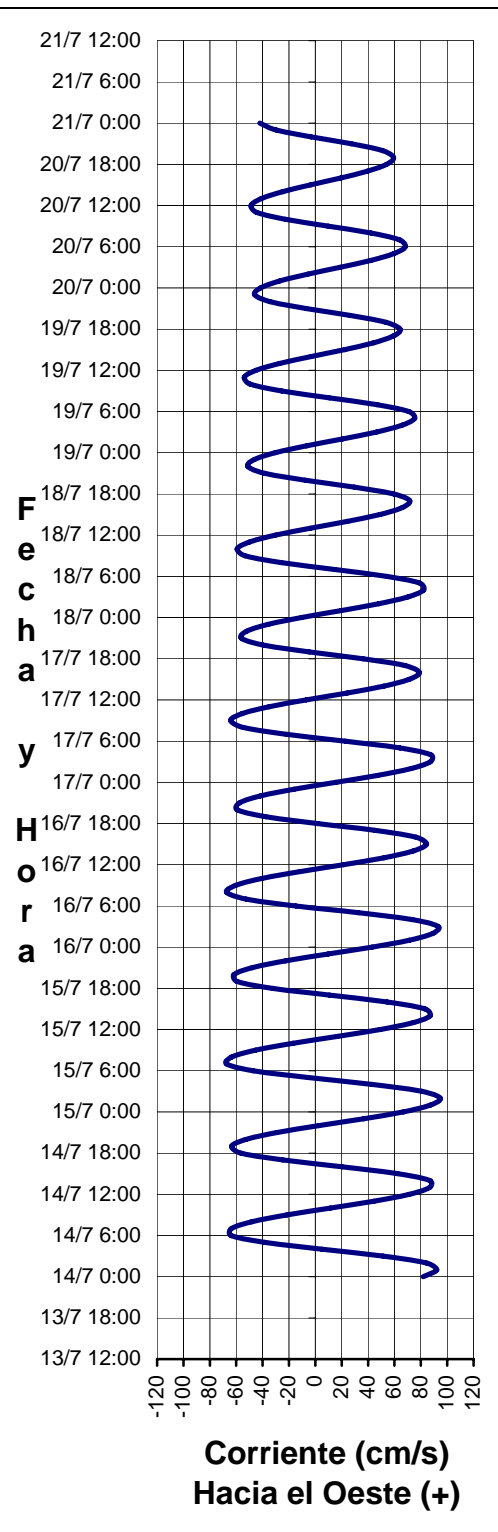
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 14/Jul/2010

Hasta 20/Jul/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	14/07	15/07	16/07	17/07	18/07	19/07	20/07
1	1:14	2:00	2:47	3:35	4:25	5:19	6:18
	92.5	94.8	93.8	89.9	83.3	76.0	68.7
2	6:25	7:13	8:01	8:51	9:43	10:40	11:41
	-66.4	-68.0	-67.3	-64.5	-59.8	-54.5	-49.2
3	13:35	14:23	15:12	16:03	16:58	17:58	19:03
	89.3	88.3	84.6	78.9	71.6	64.3	59.3
4	18:44	19:32	20:20	21:10	22:04	23:04	
	-64.1	-63.3	-60.7	-56.6	-51.3	-46.1	

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	14/07	15/07	16/07	17/07	18/07	19/07	20/07
00:00	81.8	66.7	43.1	15.7	-10.4	-30.5	-41.5
01:00	92.1	87.4	71.3	47.2	19.4	-6.7	-27.2
02:00	84.1	94.8	89.2	72.7	48.1	20.6	-5.7
03:00	51.2	80.7	93.1	87.4	70.4	46.3	19.0
04:00	4.8	42.8	73.5	87.6	82.1	65.8	42.2
05:00	-38.7	-5.5	32.7	64.1	79.2	75.4	59.7
06:00	-63.8	-47.1	-14.8	22.8	54.3	70.9	68.2
07:00	-63.9	-67.3	-52.6	-21.9	14.8	46.8	64.0
08:00	-48.4	-63.5	-67.3	-54.7	-25.7	10.6	42.2
09:00	-21.7	-45.4	-60.5	-64.3	-53.4	-25.6	9.7
10:00	11.4	-16.8	-40.6	-55.7	-59.3	-49.6	-22.8
11:00	44.5	16.8	-11.5	-35.2	-49.9	-53.9	-44.5
12:00	71.3	49.2	21.4	-6.9	-30.2	-45.0	-48.8
13:00	86.8	74.2	51.9	24.1	-3.8	-27.0	-41.0
14:00	86.9	87.1	74.3	51.9	24.4	-3.2	-25.0
15:00	62.5	83.1	84.3	71.4	49.1	22.1	-3.6
16:00	20.3	54.5	76.3	78.9	65.9	44.2	19.3
17:00	-24.8	10.7	45.1	67.9	71.6	59.2	39.7
18:00	-56.4	-32.4	1.9	36.2	59.6	64.2	53.9
19:00	-63.6	-59.4	-37.6	-4.6	29.5	53.5	59.3
20:00	-52.7	-61.7	-59.2	-39.6	-7.7	26.5	51.1
21:00	-29.2	-48.0	-57.6	-56.2	-38.3	-6.9	27.3
22:00	2.5	-22.7	-42.1	-52.2	-51.2	-34.4	-3.3
23:00	36.5	9.7	-16.0	-35.9	-46.3	-46.0	-29.7
00:00	66.7	43.1	15.7	-10.4	-30.5	-41.5	-42.2



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

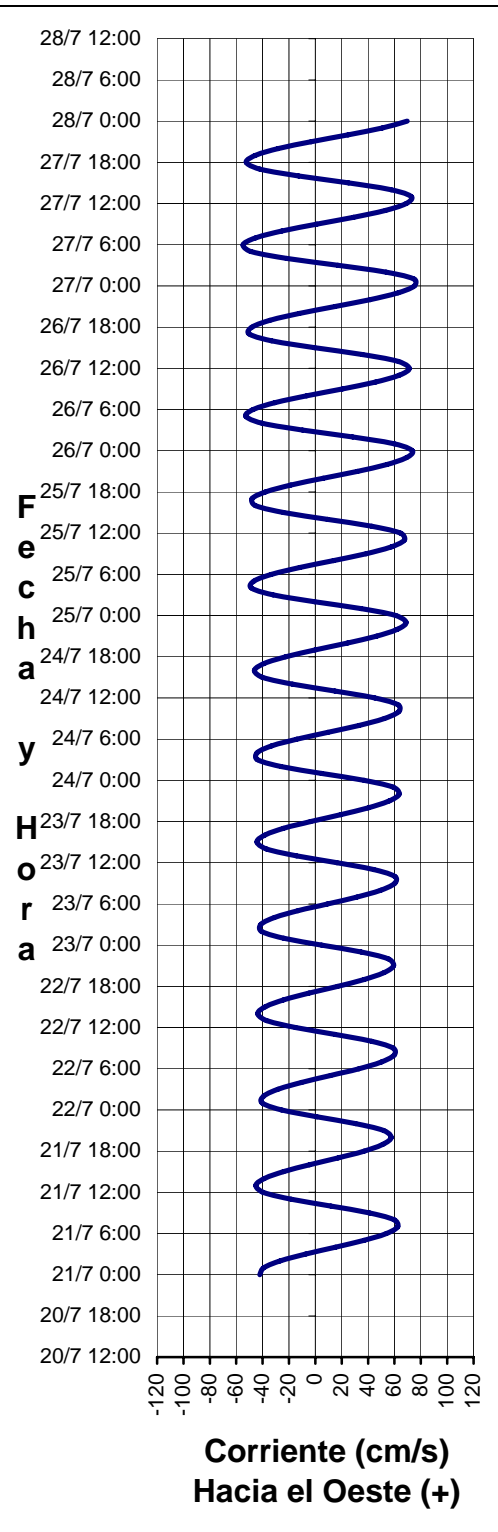
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 21/Jul/2010

Hasta 27/Jul/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	21/07	22/07	23/07	24/07	25/07	26/07	27/07
1	0:11	1:20	2:27	3:26	4:17	5:02	0:34
	-42.5	-41.4	-42.9	-45.9	-49.4	-52.8	77.1
2	7:23	8:31	9:35	10:33	11:23	12:08	5:43
	63.2	61.1	61.9	64.8	68.4	71.3	-55.3
3	12:47	13:53	14:53	15:47	16:34	17:17	12:49
	-45.3	-43.8	-44.4	-46.4	-49.1	-51.1	73.1
4	20:12	21:18	22:18	23:08	23:54		17:57
	57.7	59.8	64.0	69.0	73.7		-52.4

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	21/07	22/07	23/07	24/07	25/07	26/07	27/07
00:00	-42.2	-25.7	4.7	36.9	61.0	73.5	75.1
01:00	-39.2	-40.3	-24.0	4.7	34.8	59.9	74.8
02:00	-26.8	-39.2	-40.9	-25.9	-0.5	28.3	53.6
03:00	-7.4	-28.4	-41.3	-43.9	-32.0	-9.7	17.0
04:00	15.3	-10.4	-31.1	-44.2	-48.5	-40.5	-21.8
05:00	37.0	11.5	-13.2	-33.2	-46.5	-52.8	-48.9
06:00	53.8	33.1	9.0	-14.1	-33.3	-47.3	-54.8
07:00	62.4	50.2	31.4	9.6	-11.9	-30.8	-45.3
08:00	59.8	59.8	49.6	33.2	13.7	-6.7	-25.4
09:00	41.1	59.0	60.1	52.3	38.4	20.6	1.1
10:00	11.8	42.6	60.4	63.2	57.6	45.6	29.2
11:00	-18.4	14.8	44.5	62.8	67.6	63.7	53.3
12:00	-39.7	-15.0	16.4	45.1	64.5	71.2	68.9
13:00	-45.1	-36.9	-14.3	14.8	42.7	63.0	72.8
14:00	-38.7	-43.7	-37.1	-17.4	9.1	35.8	57.5
15:00	-24.3	-38.1	-44.3	-40.3	-24.2	-0.6	25.1
16:00	-4.5	-24.4	-38.5	-46.2	-45.5	-33.2	-12.7
17:00	17.2	-4.9	-24.1	-38.9	-48.1	-50.2	-42.1
18:00	36.9	16.8	-3.8	-22.5	-38.0	-48.1	-52.4
19:00	51.2	37.0	19.0	-0.1	-18.8	-34.5	-45.8
20:00	57.5	52.1	40.2	24.3	6.0	-12.1	-28.3
21:00	51.9	59.4	56.0	46.4	32.0	14.8	-3.3
22:00	30.6	55.3	63.6	62.2	54.4	41.4	24.8
23:00	1.2	34.8	59.0	68.9	69.1	62.8	50.7
00:00	-25.7	4.7	36.9	61.0	73.5	75.1	69.6



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

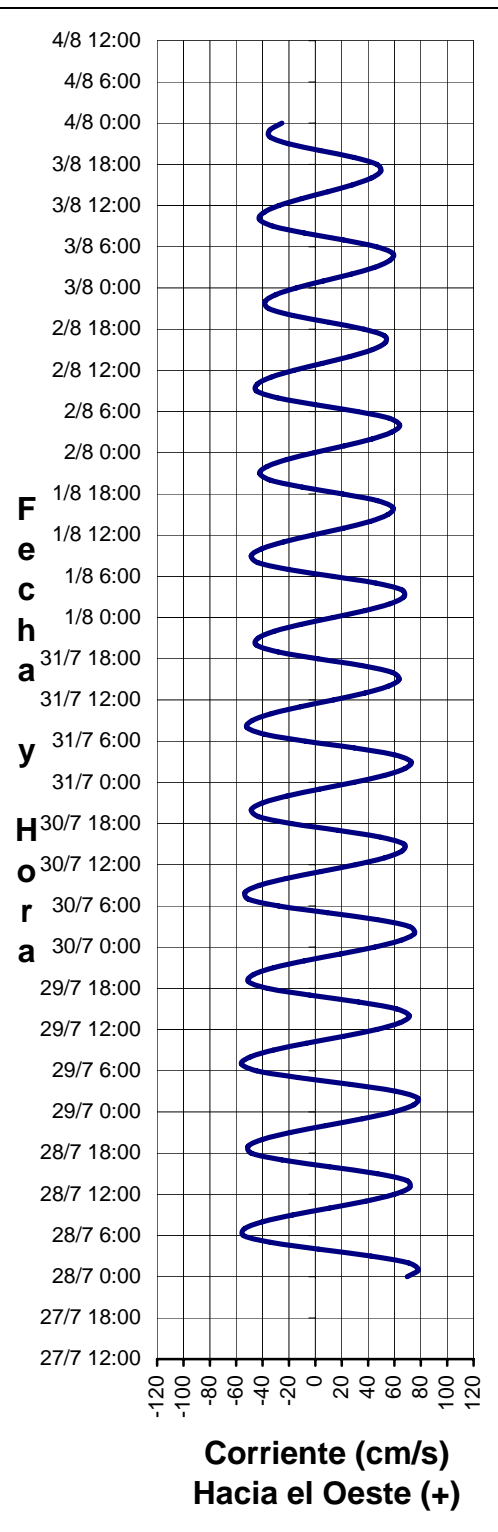
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 28/Jul/2010

Hasta 03/Ago/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	28/07	29/07	30/07	31/07	01/08	02/08	03/08
1	1:12	1:48	2:22	2:55	3:29	4:05	4:46
	78.4	78.1	76.0	72.6	68.4	64.0	59.3
2	6:22	6:58	7:33	8:07	8:43	9:21	10:05
	-56.2	-56.0	-54.5	-52.1	-49.1	-45.9	-42.5
3	13:27	14:04	14:40	15:15	15:52	16:33	17:21
	72.9	71.3	68.4	64.0	59.0	54.3	50.2
4	18:34	19:10	19:44	20:19	20:56	21:37	22:25
	-52.3	-51.1	-49.1	-45.9	-42.3	-38.9	-35.9

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	28/07	29/07	30/07	31/07	01/08	02/08	03/08
00:00	69.6	59.2	45.0	29.4	13.5	-1.0	-14.5
01:00	78.1	74.2	65.0	52.4	37.6	22.1	5.9
02:00	70.7	77.6	75.2	67.8	56.6	43.1	27.1
03:00	42.2	61.1	71.3	72.5	67.1	58.0	45.1
04:00	2.5	26.6	46.6	59.8	65.7	64.0	56.5
05:00	-34.1	-13.4	9.1	29.5	46.0	56.1	58.8
06:00	-54.5	-44.7	-27.8	-7.6	13.6	32.1	46.5
07:00	-53.7	-56.0	-50.9	-38.3	-20.2	0.1	21.3
08:00	-40.1	-49.5	-53.3	-51.9	-43.5	-28.7	-8.4
09:00	-17.1	-32.0	-42.3	-47.8	-48.7	-44.6	-32.3
10:00	10.8	-6.9	-21.9	-33.3	-40.8	-43.9	-42.4
11:00	38.2	21.1	4.0	-11.4	-24.3	-33.6	-38.9
12:00	59.9	46.5	30.5	13.9	-2.2	-16.1	-27.5
13:00	71.6	64.3	52.5	37.6	21.3	5.1	-10.3
14:00	69.4	71.3	65.8	55.3	41.7	26.2	9.4
15:00	46.8	61.5	67.2	63.6	55.1	43.2	28.2
16:00	10.8	32.8	49.6	58.3	58.9	52.9	42.5
17:00	-25.4	-4.2	17.1	35.0	47.2	52.6	49.6
18:00	-48.5	-36.0	-18.0	2.0	21.0	36.9	46.7
19:00	-51.1	-50.8	-42.9	-28.3	-10.0	10.3	29.5
20:00	-40.0	-47.0	-48.7	-44.7	-34.0	-17.2	4.0
21:00	-19.1	-31.8	-40.1	-43.4	-42.3	-35.5	-20.3
22:00	7.7	-8.4	-21.7	-31.2	-36.6	-38.2	-34.5
23:00	35.6	18.9	3.0	-10.9	-21.9	-30.2	-34.4
00:00	59.2	45.0	29.4	13.5	-1.0	-14.5	-25.4



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

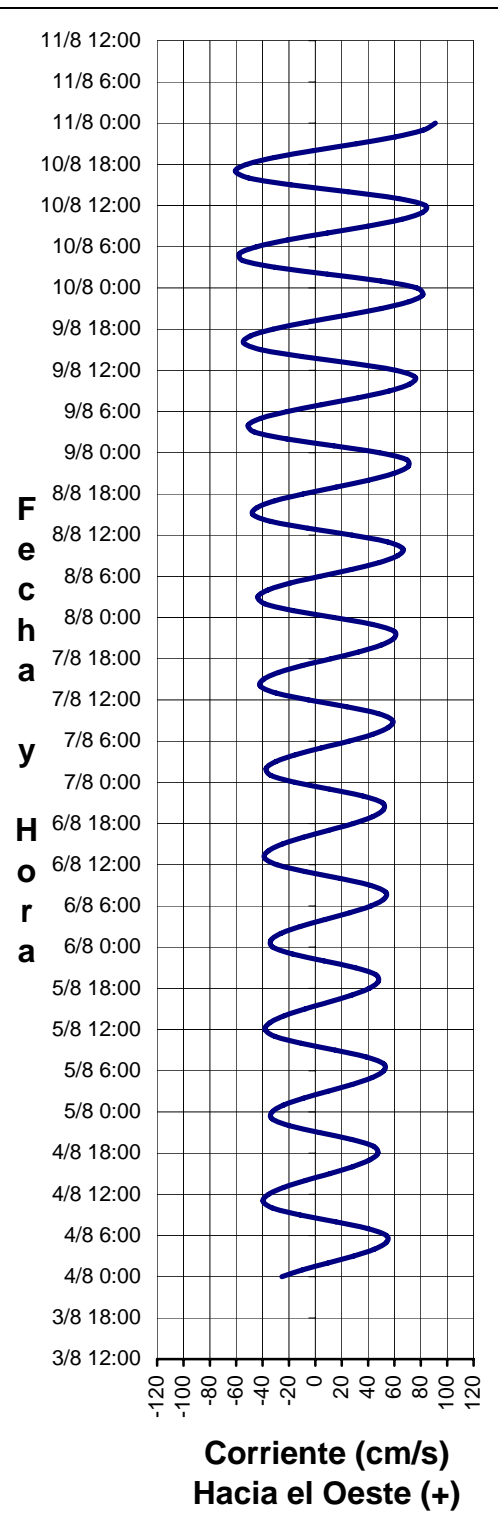
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 04/Ago/2010

Hasta 10/Ago/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	04/08	05/08	06/08	07/08	08/08	09/08	10/08
1	5:35	6:35	0:33	1:42	2:45	3:41	4:32
	55.4	53.3	-34.6	-37.8	-44.0	-51.5	-59.0
2	10:57	11:59	7:43	8:51	9:54	10:51	11:42
	-39.7	-38.2	54.1	58.8	66.6	76.0	84.6
3	18:18	19:25	13:07	14:12	15:11	16:04	16:53
	47.8	48.3	-38.7	-42.1	-47.7	-54.5	-60.7
4	23:24		20:33	21:35	22:31	23:21	
	-34.2		52.8	61.4	71.8	82.3	

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	04/08	05/08	06/08	07/08	08/08	09/08	10/08
00:00	-25.4	-32.7	-32.3	-15.5	14.3	48.5	76.9
01:00	-9.7	-24.0	-33.7	-33.7	-16.7	14.1	49.8
02:00	9.7	-8.9	-25.9	-37.4	-38.5	-21.7	9.1
03:00	29.0	9.6	-11.4	-30.1	-43.7	-46.1	-30.6
04:00	44.7	28.2	7.2	-15.2	-35.9	-50.9	-55.4
05:00	53.9	43.2	26.2	4.6	-19.2	-41.3	-57.5
06:00	54.0	51.9	42.1	25.5	3.3	-21.5	-44.7
07:00	40.1	52.0	51.9	43.6	27.3	4.7	-21.0
08:00	15.5	38.7	53.4	55.4	48.3	32.3	9.1
09:00	-11.7	15.2	41.8	58.6	62.3	56.1	39.9
10:00	-32.3	-10.8	18.9	47.9	66.5	71.6	65.6
11:00	-39.7	-30.7	-7.6	23.9	55.0	75.7	81.3
12:00	-35.4	-38.2	-29.1	-5.3	27.8	61.0	83.4
13:00	-24.1	-34.3	-38.6	-29.9	-5.7	28.6	63.2
14:00	-7.7	-23.5	-35.6	-41.7	-34.0	-10.0	24.7
15:00	10.9	-7.6	-25.1	-39.2	-47.4	-41.4	-18.3
16:00	28.2	10.5	-8.9	-27.8	-44.2	-54.4	-50.5
17:00	41.1	27.6	10.1	-9.7	-30.6	-49.1	-60.6
18:00	47.4	40.8	28.6	11.8	-9.3	-32.2	-52.0
19:00	44.1	47.7	43.3	33.0	15.8	-6.8	-31.0
20:00	27.5	45.7	51.5	50.0	40.3	22.4	-1.5
21:00	3.2	30.3	51.1	59.8	59.6	50.0	31.1
22:00	-19.8	6.4	36.2	59.8	70.4	71.0	60.8
23:00	-32.9	-17.3	10.9	43.2	69.2	81.5	82.1
00:00	-32.7	-32.3	-15.5	14.3	48.5	76.9	91.0



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

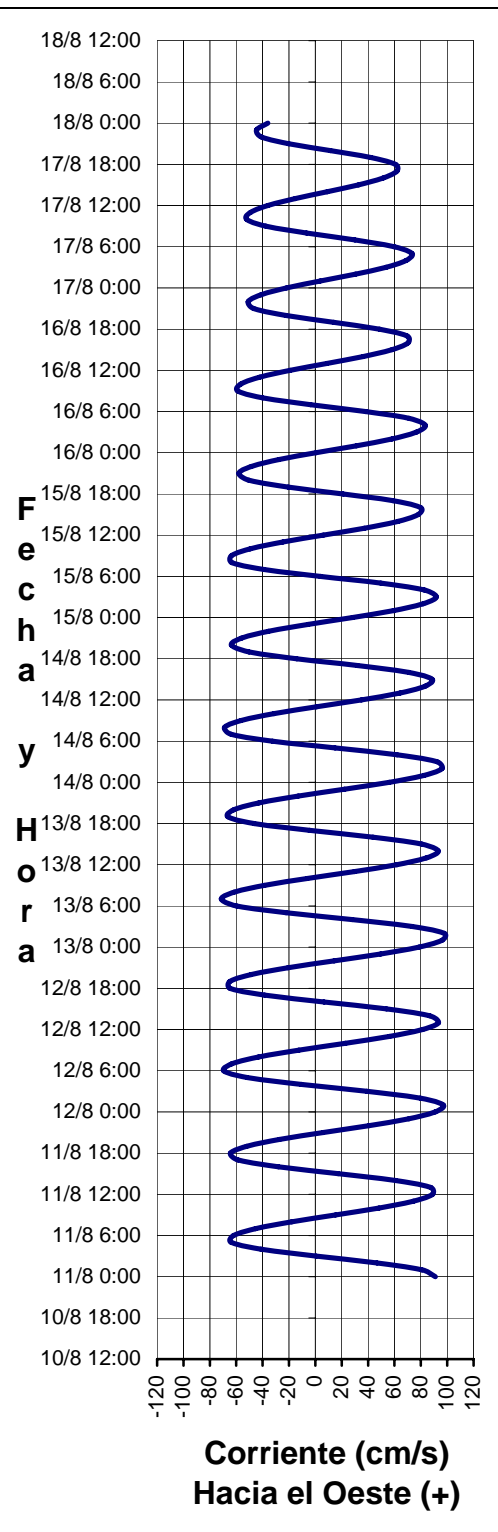
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 11/Ago/2010

Hasta 17/Ago/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	11/08	12/08	13/08	14/08	15/08	16/08	17/08
1	0:08	0:54	1:40	2:24	3:11	4:00	4:52
	91.2	97.2	99.5	97.4	91.9	83.3	73.4
2	5:20	6:06	6:52	7:38	8:25	9:16	10:11
	-65.4	-69.7	-71.4	-69.9	-66.0	-59.8	-52.6
3	12:31	13:17	14:04	14:51	15:40	16:32	17:30
	90.9	94.0	93.3	88.8	81.2	72.1	63.2
4	17:40	18:26	19:12	19:58	20:47	21:39	22:38
	-65.2	-67.5	-66.9	-63.7	-58.3	-51.7	-45.3

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	11/08	12/08	13/08	14/08	15/08	16/08	17/08
00:00	91.0	90.9	78.6	56.2	28.3	0.5	-21.9
01:00	80.8	97.0	96.0	82.4	59.3	31.1	3.7
02:00	46.7	79.7	97.8	96.1	81.8	58.1	30.5
03:00	0.5	38.9	73.4	92.2	91.7	76.7	53.7
04:00	-41.3	-10.8	28.0	62.0	82.7	83.3	68.9
05:00	-63.8	-51.8	-22.3	14.9	49.6	71.0	73.2
06:00	-62.1	-69.6	-59.7	-32.6	3.8	38.3	60.0
07:00	-45.6	-63.6	-71.3	-63.8	-38.8	-3.5	30.0
08:00	-18.0	-43.2	-61.7	-68.9	-63.4	-40.1	-6.7
09:00	15.3	-12.5	-38.6	-56.4	-63.7	-58.8	-37.6
10:00	48.2	22.9	-6.1	-31.6	-49.5	-56.6	-52.2
11:00	74.3	56.3	29.6	0.9	-24.7	-42.3	-49.2
12:00	88.9	81.3	61.7	34.9	6.1	-19.0	-36.1
13:00	87.5	93.4	84.4	64.2	37.2	8.9	-15.4
14:00	61.1	86.6	93.2	83.3	62.8	36.2	9.0
15:00	17.3	53.9	80.7	88.5	78.2	58.1	32.7
16:00	-28.1	6.5	43.7	70.8	79.8	70.3	51.5
17:00	-58.8	-38.4	-4.5	31.9	59.1	69.6	61.8
18:00	-64.4	-64.7	-46.2	-14.1	21.1	48.7	60.8
19:00	-52.1	-65.0	-66.3	-50.4	-20.5	13.8	42.2
20:00	-27.2	-48.9	-62.0	-63.7	-50.4	-22.4	11.5
21:00	5.8	-20.8	-42.9	-56.1	-58.0	-46.8	-20.1
22:00	40.6	14.2	-13.0	-35.4	-48.6	-51.0	-41.1
23:00	70.9	49.5	22.3	-5.4	-27.8	-41.3	-44.6
00:00	90.9	78.6	56.2	28.3	0.5	-21.9	-36.1



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

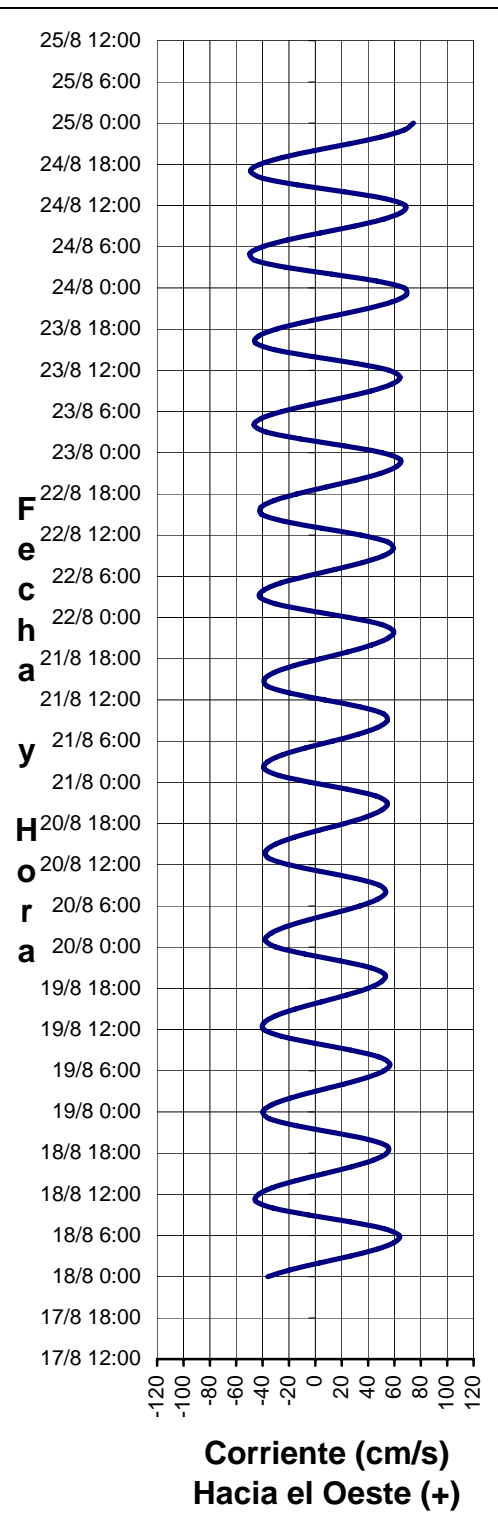
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 18/Ago/2010

Hasta 24/Ago/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	18/08	19/08	20/08	21/08	22/08	23/08	24/08
1	5:52	7:00	1:00	2:10	3:09	3:57	4:38
	63.7	56.4	-38.0	-39.1	-42.5	-46.4	-50.4
2	11:14	12:23	8:13	9:20	10:17	11:05	11:46
	-45.7	-40.4	53.5	55.1	59.6	64.3	68.7
3	18:37	19:49	13:33	14:36	15:28	16:14	16:53
	55.9	53.0	-38.3	-39.5	-42.7	-46.1	-49.2
4	23:46		20:59	21:59	22:48	23:29	
	-40.0		54.6	59.3	64.8	70.3	

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	18/08	19/08	20/08	21/08	22/08	23/08	24/08
00:00	-36.1	-39.8	-29.7	-3.9	25.7	50.6	67.4
01:00	-19.1	-33.4	-38.0	-27.7	-4.7	21.9	46.5
02:00	3.2	-19.2	-33.8	-38.8	-30.5	-11.3	12.4
03:00	26.6	0.1	-21.8	-36.1	-42.3	-37.2	-22.5
04:00	46.7	20.9	-4.3	-24.8	-39.0	-46.4	-45.8
05:00	59.9	39.3	15.5	-7.4	-26.6	-40.7	-49.6
06:00	63.6	51.9	33.8	13.0	-7.4	-25.6	-40.1
07:00	52.1	56.4	47.3	32.4	14.7	-3.8	-21.1
08:00	26.3	48.4	53.3	47.2	35.7	20.4	3.7
09:00	-5.2	27.1	48.8	54.6	51.5	42.4	29.5
10:00	-32.0	-0.6	30.5	51.5	59.1	58.0	51.4
11:00	-45.2	-25.4	4.6	33.7	54.9	64.2	65.3
12:00	-43.0	-39.2	-20.3	7.0	34.5	56.0	68.1
13:00	-32.0	-38.9	-35.9	-19.5	4.9	30.8	52.8
14:00	-14.4	-30.0	-37.5	-36.5	-23.5	-2.2	21.8
15:00	6.7	-14.8	-30.0	-38.8	-40.5	-31.1	-13.7
16:00	27.5	4.2	-15.8	-31.0	-41.3	-45.5	-40.6
17:00	44.4	23.5	2.7	-15.9	-31.6	-42.9	-49.2
18:00	54.2	39.8	22.1	3.8	-14.2	-29.9	-42.2
19:00	54.6	50.2	39.1	24.6	7.9	-9.1	-25.0
20:00	39.9	52.8	50.6	42.7	30.5	15.6	-0.8
21:00	13.7	42.0	54.6	55.0	49.5	39.6	25.9
22:00	-14.6	18.9	46.1	59.3	61.6	58.6	50.2
23:00	-34.8	-8.2	24.0	49.9	64.4	69.0	67.4
00:00	-39.8	-29.7	-3.9	25.7	50.6	67.4	74.4



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

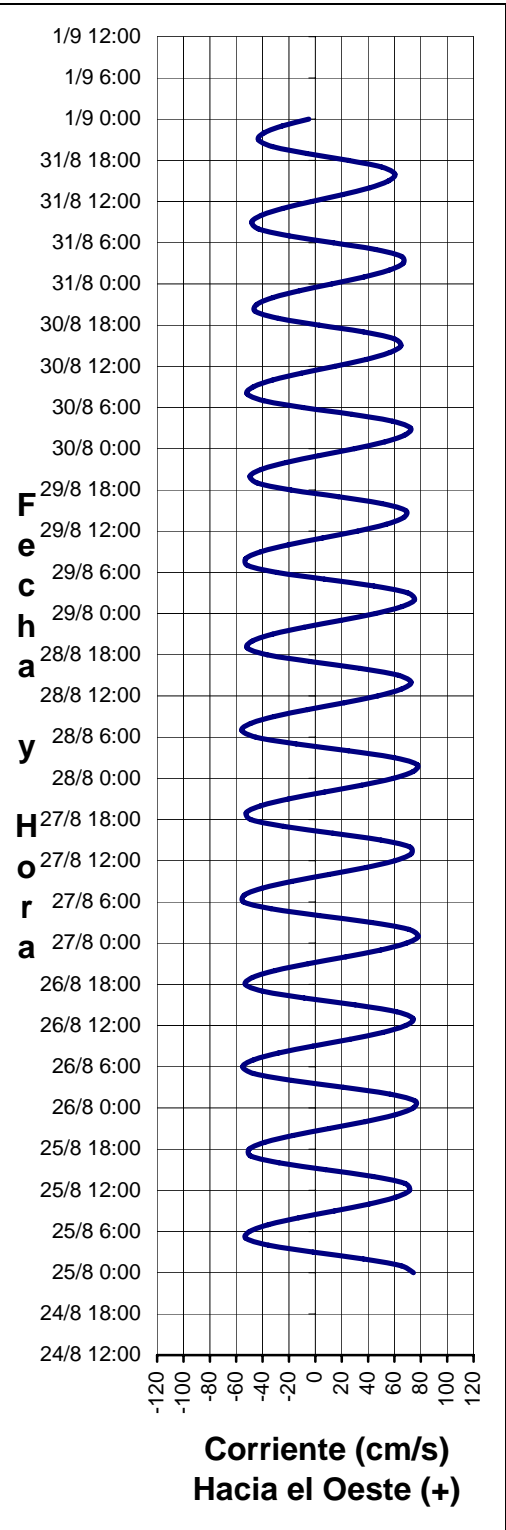
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 25/Ago/2010

Hasta 31/Ago/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	25/08	26/08	27/08	28/08	29/08	30/08	31/08
1	0:06	0:40	1:13	1:45	2:18	2:52	3:29
	74.4	77.1	78.4	77.8	75.8	72.4	67.9
2	5:15	5:50	6:23	6:56	7:30	8:05	8:44
	-53.4	-55.3	-56.2	-55.8	-54.3	-51.9	-48.7
3	12:23	12:58	13:31	14:05	14:40	15:17	15:59
	72.4	74.2	74.4	72.6	69.7	65.3	60.3
4	17:29	18:03	18:36	19:10	19:44	20:21	21:04
	-51.9	-53.2	-53.4	-52.1	-50.0	-46.8	-43.2

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	25/08	26/08	27/08	28/08	29/08	30/08	31/08
00:00	74.4	74.3	69.2	59.2	45.7	29.6	12.5
01:00	65.2	75.8	78.1	74.2	65.6	52.8	36.7
02:00	36.4	56.7	70.9	77.1	75.2	67.9	56.0
03:00	-1.8	21.2	42.6	59.8	70.0	72.2	66.6
04:00	-35.5	-18.0	3.0	25.1	44.4	58.4	65.2
05:00	-52.6	-46.8	-33.6	-14.6	6.8	27.8	45.8
06:00	-50.0	-55.1	-54.3	-45.2	-29.4	-9.1	13.7
07:00	-35.7	-47.0	-53.9	-55.8	-51.4	-39.1	-19.7
08:00	-12.7	-28.1	-40.4	-49.0	-52.8	-51.8	-43.0
09:00	14.5	-2.0	-17.6	-31.3	-41.4	-47.3	-48.3
10:00	40.7	26.3	10.4	-6.1	-20.7	-32.6	-40.8
11:00	61.0	51.4	38.1	21.9	5.4	-10.5	-24.6
12:00	71.5	68.4	60.3	47.3	32.0	14.8	-2.7
13:00	67.9	74.2	72.7	65.4	53.9	38.6	20.7
14:00	44.1	61.7	71.7	72.6	67.1	56.4	41.4
15:00	7.8	30.3	49.7	63.0	68.5	64.9	55.5
16:00	-27.6	-8.4	13.2	33.9	50.5	59.9	60.3
17:00	-49.1	-40.1	-24.3	-3.9	17.5	36.5	50.5
18:00	-50.3	-53.2	-48.9	-36.5	-18.4	3.0	25.1
19:00	-38.3	-47.6	-52.4	-51.7	-43.8	-28.2	-6.4
20:00	-16.8	-30.7	-41.5	-47.8	-49.6	-45.4	-32.4
21:00	10.3	-5.5	-20.4	-32.3	-40.9	-44.5	-43.2
22:00	37.8	23.0	6.9	-8.4	-22.1	-32.4	-38.8
23:00	60.5	49.6	35.2	19.3	3.0	-12.1	-25.2
00:00	74.3	69.2	59.2	45.7	29.6	12.5	-4.9



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

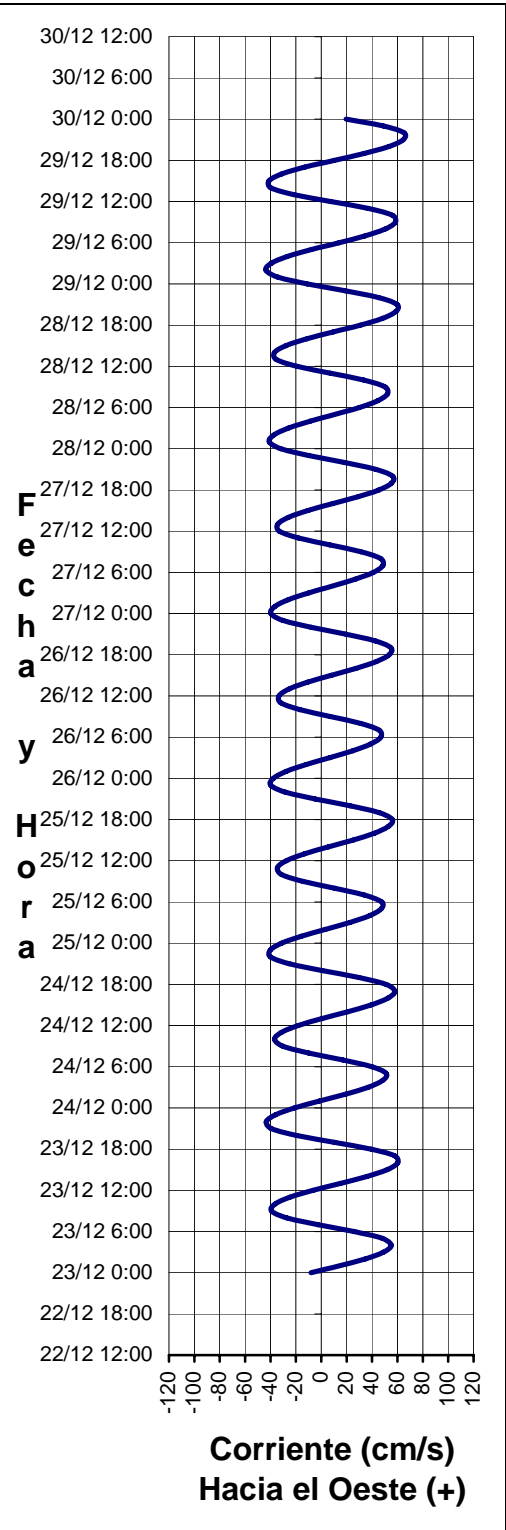
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 01/Sep/2010

Hasta 07/Sep/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	01/09	02/09	03/09	04/09	05/09	06/09	07/09
1	4:06	4:49	5:36	6:29	0:06	1:03	2:01
	55.1	51.5	48.8	47.8	-39.8	-41.0	-43.6
2	9:11	9:53	10:40	11:33	7:27	8:26	9:25
	-39.5	-36.8	-35.0	-34.2	49.4	53.0	59.3
3	16:25	17:06	17:51	18:43	12:31	13:31	14:31
	61.1	58.0	56.2	55.6	-35.3	-38.0	-42.5
4	21:41	22:24	23:13	0:06	19:39	20:39	21:38
	-43.8	-41.5	-40.2	-39.8	57.2	60.9	66.6

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	23/12	24/12	25/12	26/12	27/12	28/12	29/12
00:00	-8.0	-21.1	-31.1	-37.7	-39.7	-31.9	-11.0
01:00	14.3	-1.4	-15.6	-27.8	-36.7	-40.9	-34.5
02:00	34.7	19.3	3.5	-12.0	-26.0	-37.3	-43.6
03:00	49.2	37.0	22.6	6.6	-9.9	-25.9	-39.3
04:00	55.1	48.4	38.2	24.8	8.9	-8.8	-26.6
05:00	48.0	51.2	47.3	39.1	27.0	11.0	-7.7
06:00	26.1	40.1	47.6	46.8	41.0	29.8	13.9
07:00	-2.5	16.9	34.1	45.7	48.5	44.5	34.4
08:00	-27.3	-9.9	10.5	31.0	46.9	52.2	50.2
09:00	-39.2	-30.3	-14.4	7.2	31.3	50.3	58.5
10:00	-36.4	-36.8	-31.4	-16.7	6.7	33.5	56.1
11:00	-24.7	-31.4	-34.5	-31.8	-17.9	7.1	37.0
12:00	-6.4	-18.2	-27.4	-33.3	-33.1	-19.2	7.5
13:00	15.1	0.4	-13.3	-25.4	-34.3	-35.6	-21.7
14:00	35.8	20.9	5.4	-10.7	-25.9	-36.9	-39.9
15:00	51.9	39.5	25.0	8.1	-10.4	-27.9	-41.3
16:00	60.3	52.6	42.0	27.4	9.1	-11.4	-31.3
17:00	58.0	57.9	53.0	43.5	29.0	9.5	-12.9
18:00	39.4	51.1	56.0	53.4	45.4	30.8	10.2
19:00	10.2	29.7	45.8	55.0	55.3	48.3	33.7
20:00	-19.5	1.1	22.9	42.9	56.2	58.8	53.0
21:00	-39.5	-25.2	-4.9	19.3	43.0	59.8	64.5
22:00	-43.3	-40.1	-28.5	-8.1	18.3	45.4	65.3
23:00	-36.0	-40.1	-39.8	-30.2	-9.7	18.9	49.1
00:00	-21.1	-31.1	-37.7	-39.7	-31.9	-11.0	19.5



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

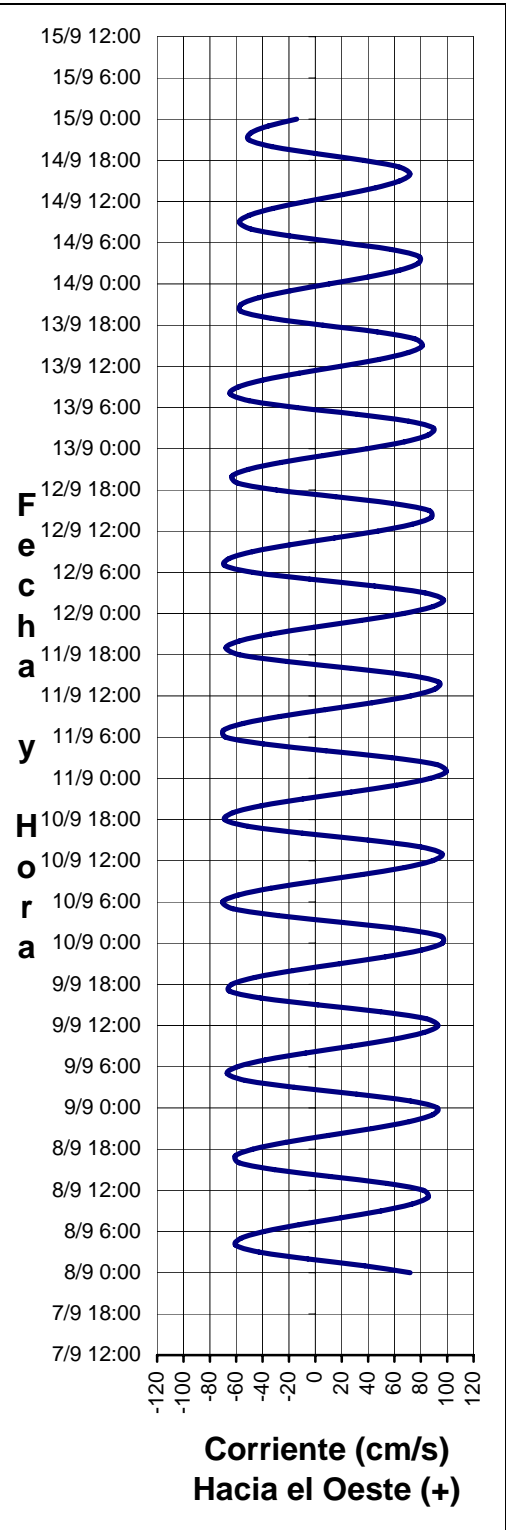
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 08/Sep/2010

Hasta 14/Sep/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	08/09	09/09	10/09	11/09	12/09	13/09	14/09
1	4:11	4:59	0:32	1:16	2:01	2:47	3:36
	-60.9	-66.9	98.7	100.0	97.2	90.1	80.5
2	11:24	12:12	5:44	6:29	7:15	8:02	8:51
	86.7	93.3	-70.9	-71.8	-69.7	-64.7	-57.7
3	16:33	17:20	12:58	13:43	14:30	15:18	16:09
	-62.2	-66.9	96.1	94.8	89.9	81.8	71.8
4	23:46		18:05	18:50	19:37	20:25	21:18
	93.3		-69.0	-68.0	-64.5	-58.6	-51.5

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	08/09	09/09	10/09	11/09	12/09	13/09	14/09
00:00	71.8	92.5	96.5	87.2	66.8	39.2	10.5
01:00	37.5	72.4	95.4	99.4	89.0	67.5	40.0
02:00	-5.7	31.3	67.6	92.0	97.2	85.5	64.1
03:00	-42.7	-16.1	20.9	57.7	83.2	89.5	78.1
04:00	-60.4	-53.2	-28.3	8.2	44.9	70.7	78.5
05:00	-56.4	-66.9	-62.6	-39.3	-4.3	31.7	57.6
06:00	-39.2	-59.2	-70.3	-68.0	-47.3	-14.0	20.8
07:00	-12.3	-38.0	-58.6	-69.8	-68.8	-50.3	-19.4
08:00	19.3	-7.2	-33.7	-54.6	-65.6	-64.6	-48.9
09:00	49.7	27.3	-0.1	-27.1	-47.9	-58.4	-57.6
10:00	73.3	59.2	35.8	7.5	-19.5	-39.8	-50.0
11:00	85.6	82.6	67.4	42.9	14.4	-12.3	-32.0
12:00	81.9	92.9	88.9	72.5	47.4	19.1	-6.9
13:00	54.3	83.9	96.1	90.7	73.6	48.5	20.7
14:00	11.6	49.5	80.1	93.7	88.0	70.5	45.9
15:00	-31.0	1.9	39.9	71.1	86.2	81.1	64.0
16:00	-57.9	-41.6	-9.8	27.5	59.4	75.4	71.7
17:00	-60.8	-65.2	-51.1	-21.2	15.5	47.0	63.9
18:00	-47.4	-63.5	-68.8	-57.4	-29.5	5.7	36.8
19:00	-22.3	-46.1	-62.4	-67.9	-59.0	-33.5	0.1
20:00	9.8	-17.0	-41.3	-57.7	-63.4	-56.2	-32.9
21:00	43.1	18.2	-9.4	-34.0	-50.7	-56.5	-50.4
22:00	71.2	53.0	27.2	-1.1	-26.1	-42.8	-48.7
23:00	88.9	80.9	61.5	34.8	5.9	-19.0	-35.7
00:00	92.5	96.5	87.2	66.8	39.2	10.5	-14.3



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

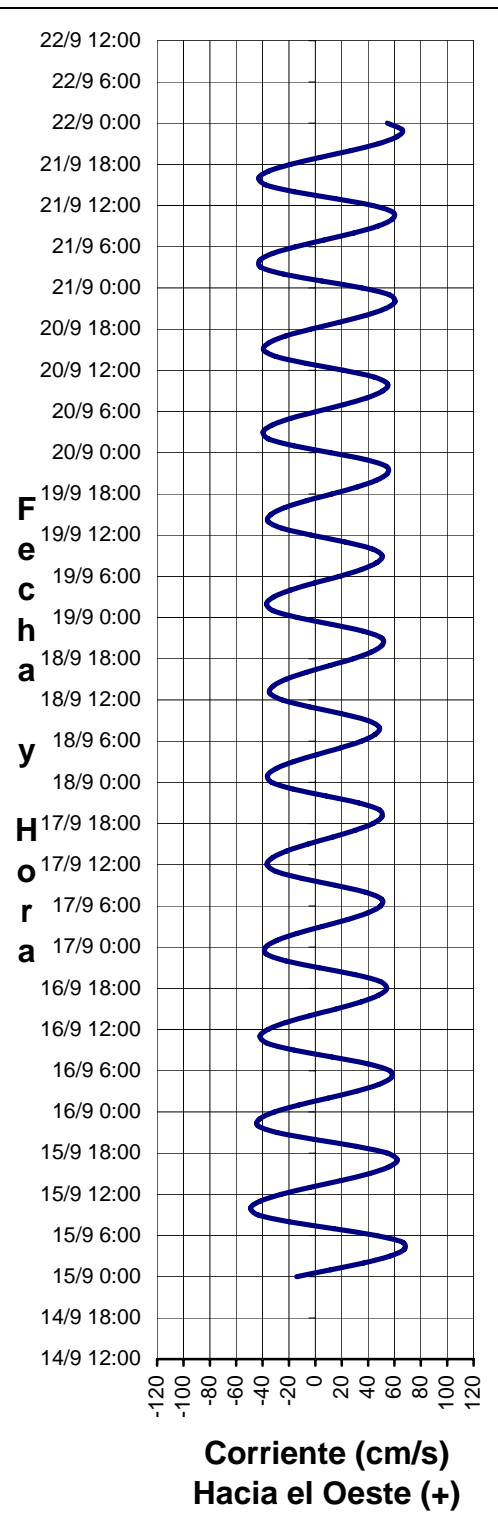
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 15/Sep/2010

Hasta 21/Sep/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	15/09	16/09	17/09	18/09	19/09	20/09	21/09
1	4:29	5:29	6:39	0:40	1:48	2:44	3:28
	69.0	58.8	51.2	-36.7	-37.2	-40.0	-43.6
2	9:46	10:48	11:59	7:53	9:00	9:55	10:39
	-49.4	-42.1	-36.7	48.6	50.7	54.9	60.3
3	17:07	18:13	19:25	13:10	14:12	15:03	15:45
	62.2	54.3	51.2	-34.8	-36.3	-39.3	-43.2
4	22:17	23:26		20:34	21:31	22:17	22:56
	-44.5	-38.9		52.0	55.9	60.9	66.1

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	15/09	16/09	17/09	18/09	19/09	20/09	21/09
00:00	-14.3	-30.8	-37.6	-33.2	-13.5	11.7	35.3
01:00	11.5	-12.4	-28.9	-36.2	-32.1	-16.1	5.0
02:00	36.7	9.6	-13.7	-29.7	-37.1	-35.4	-24.0
03:00	56.7	31.2	5.3	-16.6	-31.4	-39.7	-41.4
04:00	67.6	48.2	24.4	0.8	-18.5	-32.9	-42.3
05:00	66.2	57.6	40.1	19.1	-1.0	-18.6	-32.5
06:00	46.5	56.5	49.4	34.9	18.1	0.7	-15.0
07:00	14.2	40.0	50.3	45.4	35.0	21.2	6.9
08:00	-19.7	12.8	38.0	48.5	46.6	39.1	29.1
09:00	-43.4	-16.0	15.4	39.8	50.7	51.1	47.3
10:00	-49.2	-36.5	-9.9	19.8	43.0	54.8	58.2
11:00	-41.9	-41.9	-29.5	-4.6	22.6	44.9	59.1
12:00	-25.9	-36.1	-36.7	-25.1	-3.2	21.5	43.5
13:00	-4.1	-22.7	-32.7	-34.6	-25.3	-6.9	15.0
14:00	19.6	-4.3	-21.6	-32.1	-36.0	-29.9	-15.8
15:00	40.8	16.0	-5.5	-22.3	-33.6	-39.3	-37.7
16:00	55.9	34.6	12.8	-7.0	-23.2	-35.1	-42.9
17:00	62.1	48.1	30.2	11.1	-6.9	-22.4	-35.3
18:00	54.7	54.1	43.6	28.7	12.5	-3.6	-18.9
19:00	30.9	49.3	50.5	42.7	31.4	17.9	3.2
20:00	-0.8	30.0	48.6	50.7	46.4	38.1	26.9
21:00	-29.0	2.9	32.9	50.5	54.7	53.2	47.7
22:00	-43.7	-22.5	8.4	36.5	53.9	60.5	61.6
23:00	-42.1	-37.3	-16.5	12.3	38.1	56.1	66.0
00:00	-30.8	-37.6	-33.2	-13.5	11.7	35.3	54.6



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 22/Sep/2010

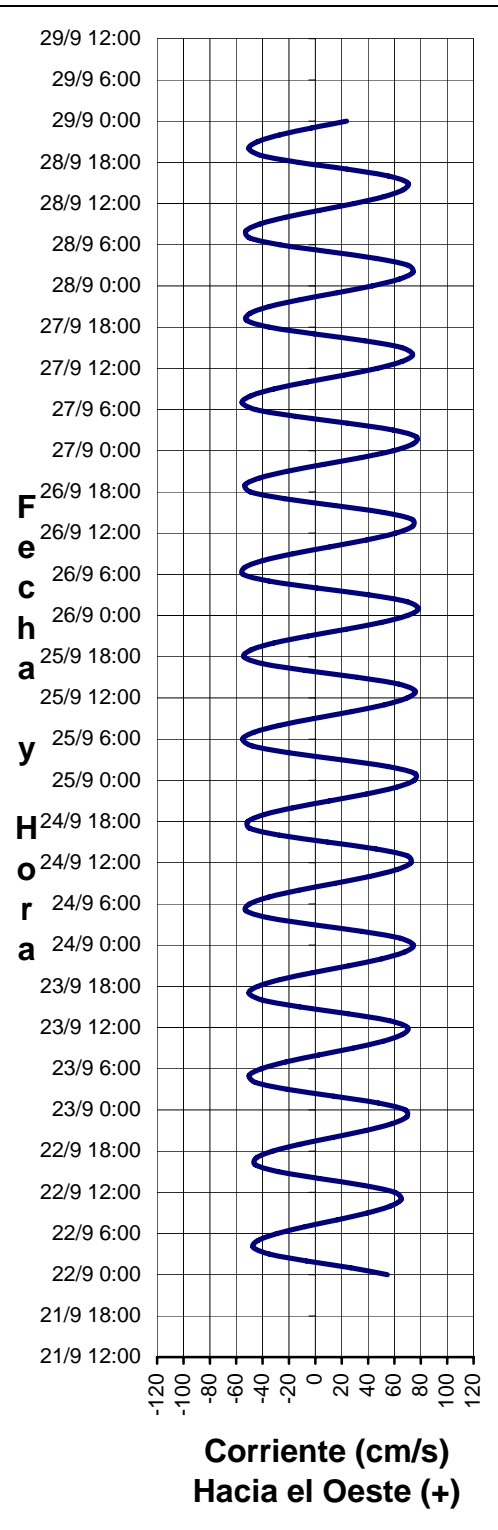
Hasta 28/Sep/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	22/09	23/09	24/09	25/09	26/09	27/09	28/09
1	4:06	4:41	0:04	0:36	1:09	1:44	2:21
	-47.4	-50.8	74.4	77.3	78.4	77.6	75.0
2	11:17	11:51	5:14	5:47	6:21	6:56	7:34
	65.6	70.3	-53.4	-55.4	-56.2	-55.6	-53.8
3	16:22	16:56	12:25	12:59	13:34	14:10	14:49
	-47.0	-50.4	73.7	75.8	75.8	73.9	70.5
4	23:31		17:30	18:04	18:39	19:15	19:55
	70.8		-52.8	-54.3	-54.3	-53.0	-50.6

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	22/09	23/09	24/09	25/09	26/09	27/09	28/09
00:00	54.6	68.2	74.4	75.0	69.8	59.0	43.2
01:00	27.0	47.7	64.4	75.5	78.2	74.1	63.8
02:00	-6.9	13.8	35.2	55.1	69.8	76.7	74.2
03:00	-35.0	-21.5	-2.8	19.0	40.7	59.0	70.2
04:00	-47.2	-45.5	-36.1	-19.9	1.1	24.4	46.0
05:00	-43.1	-50.2	-52.7	-47.9	-35.0	-15.0	9.4
06:00	-29.1	-41.0	-49.9	-55.2	-54.7	-45.2	-26.9
07:00	-7.9	-22.3	-35.5	-46.6	-53.6	-55.6	-49.9
08:00	16.6	2.5	-12.5	-27.3	-39.9	-48.9	-52.7
09:00	39.6	28.7	14.8	-1.0	-17.0	-31.3	-42.3
10:00	56.9	51.3	41.2	27.3	11.0	-6.3	-22.5
11:00	65.1	66.0	61.7	52.5	38.7	21.7	3.0
12:00	60.1	70.0	72.6	69.7	61.0	47.3	29.5
13:00	36.8	55.9	69.7	75.8	73.8	65.8	52.1
14:00	3.3	24.7	46.0	63.5	73.4	73.8	66.6
15:00	-28.0	-11.9	9.2	31.7	51.9	65.7	70.2
16:00	-45.5	-40.4	-27.2	-7.8	15.1	37.4	55.4
17:00	-44.8	-50.4	-49.7	-40.5	-23.3	-0.8	23.9
18:00	-32.5	-43.7	-51.3	-54.3	-49.1	-34.9	-12.7
19:00	-11.9	-26.4	-39.2	-48.8	-53.5	-52.2	-41.0
20:00	13.3	-1.8	-17.2	-31.5	-42.8	-49.6	-50.5
21:00	38.3	25.5	10.5	-5.9	-21.6	-34.9	-43.9
22:00	58.2	50.3	38.6	23.3	6.0	-11.4	-26.9
23:00	69.3	67.7	61.5	50.2	34.8	16.4	-2.9
00:00	68.2	74.4	75.0	69.8	59.0	43.2	23.6



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 29/Sep/2010

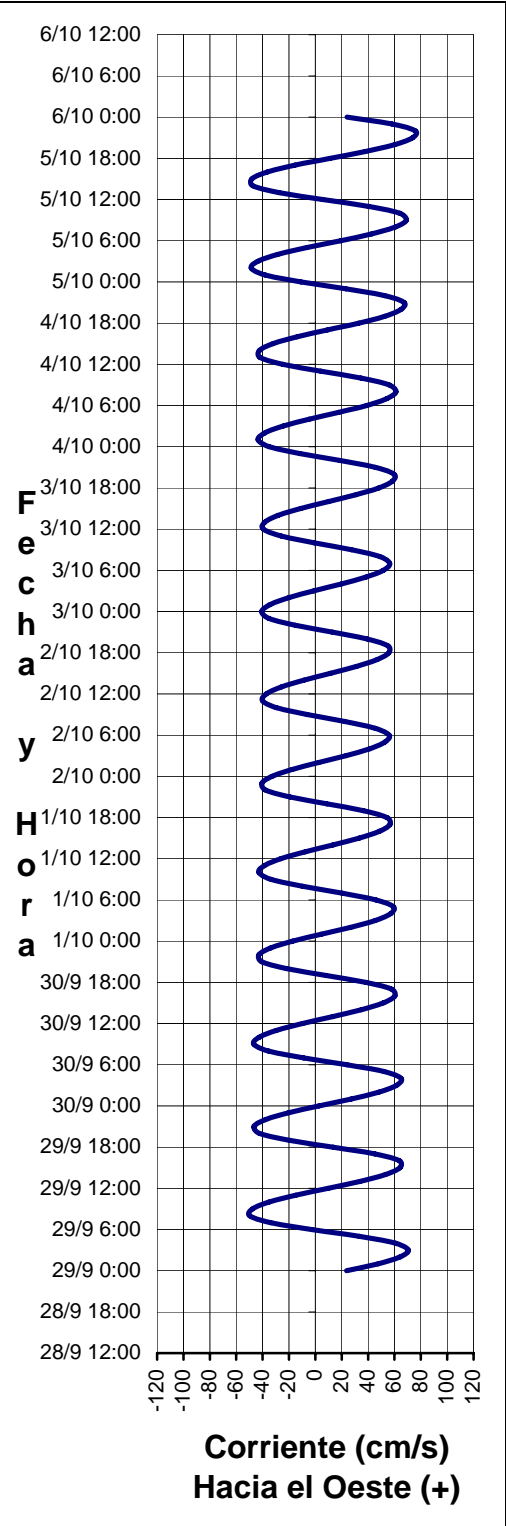
Hasta 05/Oct/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	29/09	30/09	01/10	02/10	03/10	04/10	05/10
1	3:02	3:49	4:44	5:51	7:03	0:58	2:02
	70.5	65.3	59.8	56.2	56.4	-43.4	-48.7
2	8:16	9:04	10:01	11:09	12:20	8:14	9:17
	-50.6	-46.8	-42.9	-40.2	-40.4	61.4	69.5
3	15:33	16:24	17:24	18:32	19:41	13:28	14:28
	65.8	61.1	57.5	56.9	60.6	-44.0	-49.8
4	20:41	21:34	22:37	23:48		20:45	21:42
	-47.2	-43.8	-41.2	-40.8		67.9	76.8

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	29/09	30/09	01/10	02/10	03/10	04/10	05/10
00:00	23.6	2.8	-17.1	-32.7	-40.6	-35.0	-10.9
01:00	47.5	27.2	4.5	-17.5	-34.4	-43.4	-38.0
02:00	64.2	48.1	26.8	2.5	-20.4	-38.3	-48.7
03:00	70.5	61.6	45.5	23.3	-1.2	-24.6	-43.6
04:00	60.8	65.0	57.1	41.2	19.7	-4.6	-28.5
05:00	33.3	52.0	59.2	52.9	38.4	17.8	-6.3
06:00	-2.4	24.2	46.1	56.0	51.4	38.7	19.0
07:00	-33.7	-8.8	20.1	45.4	56.4	54.0	42.7
08:00	-49.8	-35.6	-9.9	22.0	49.0	61.1	60.5
09:00	-47.7	-46.7	-33.6	-6.1	27.5	56.0	69.0
10:00	-35.1	-42.6	-42.8	-29.5	-0.7	34.6	64.1
11:00	-14.7	-29.5	-38.6	-40.0	-25.9	4.1	40.2
12:00	9.8	-9.7	-26.2	-37.1	-39.5	-24.8	5.6
13:00	33.9	13.1	-7.8	-25.9	-38.4	-41.9	-27.6
14:00	53.2	34.8	13.3	-8.7	-28.1	-42.5	-47.4
15:00	64.1	51.6	33.3	11.6	-11.0	-32.2	-48.2
16:00	63.8	60.3	48.7	31.3	9.9	-13.8	-36.4
17:00	45.2	57.8	56.7	47.0	30.9	9.3	-15.4
18:00	13.5	38.3	54.4	55.7	48.1	32.8	11.0
19:00	-19.7	8.3	36.5	55.1	58.5	52.6	37.9
20:00	-42.3	-21.7	8.7	39.4	59.7	65.0	60.2
21:00	-46.6	-40.7	-19.3	12.9	45.5	67.3	73.8
22:00	-38.0	-42.9	-37.7	-15.2	18.7	52.7	75.8
23:00	-20.4	-33.9	-40.5	-35.3	-11.6	23.2	58.1
00:00	2.8	-17.1	-32.7	-40.6	-35.0	-10.9	24.0



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 06/Oct/2010

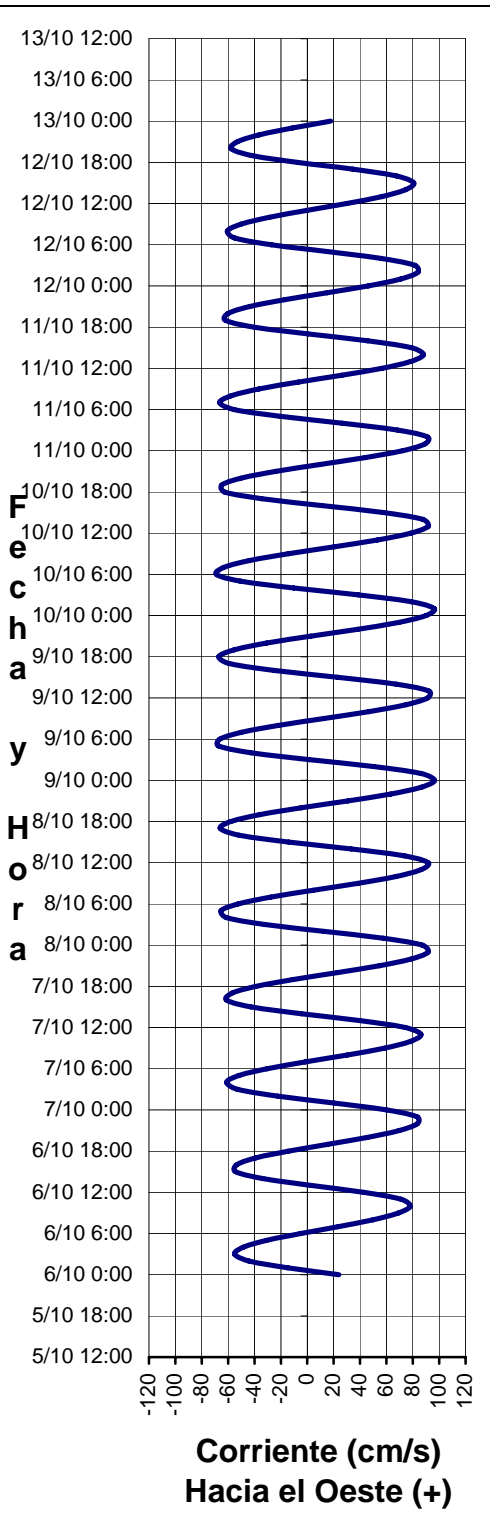
Hasta 12/Oct/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	06/10	07/10	08/10	09/10	10/10	11/10	12/10
1	2:57	3:48	4:36	0:09	0:54	1:40	2:27
	-55.1	-61.5	-66.5	96.6	96.4	92.7	85.4
2	10:13	11:04	11:52	5:22	6:07	6:53	7:40
	78.4	86.2	91.9	-69.4	-69.2	-66.5	-61.3
3	15:22	16:11	16:59	12:38	13:24	14:10	14:59
	-56.2	-61.8	-66.0	94.3	93.0	88.3	80.7
4	22:34	23:22		17:45	18:31	19:18	20:07
	85.7	92.7		-67.7	-66.7	-63.3	-57.9

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	06/10	07/10	08/10	09/10	10/10	11/10	12/10
00:00	24.0	60.1	87.2	96.5	90.1	72.3	46.2
01:00	-14.7	20.3	57.7	86.0	96.2	89.3	70.8
02:00	-44.5	-22.4	12.6	50.3	78.9	91.1	84.0
03:00	-55.1	-53.0	-32.3	1.8	38.8	68.5	81.4
04:00	-48.5	-61.2	-61.3	-42.6	-10.2	26.3	55.8
05:00	-30.8	-51.8	-65.4	-67.3	-50.9	-20.4	14.9
06:00	-5.3	-30.6	-52.5	-66.4	-68.9	-55.4	-27.0
07:00	23.3	-1.5	-27.7	-49.9	-63.5	-66.5	-55.3
08:00	49.8	30.2	4.6	-21.9	-44.1	-57.8	-60.6
09:00	69.2	58.6	38.4	12.4	-14.4	-36.6	-50.1
10:00	78.0	78.5	67.5	46.7	20.2	-6.7	-28.7
11:00	71.0	86.2	86.4	74.7	53.2	26.4	-0.3
12:00	42.7	74.4	91.7	91.2	78.6	56.7	29.9
13:00	3.0	40.1	73.6	92.3	91.8	78.6	56.4
14:00	-33.8	-4.4	33.5	67.4	87.6	88.1	74.5
15:00	-54.4	-42.9	-14.2	22.8	57.5	78.8	80.7
16:00	-53.6	-61.3	-51.9	-25.2	11.1	45.8	67.8
17:00	-39.1	-57.1	-66.0	-59.2	-34.5	0.6	34.4
18:00	-14.5	-39.0	-58.1	-67.2	-62.7	-40.2	-7.3
19:00	15.6	-10.6	-36.3	-55.6	-64.9	-62.0	-42.2
20:00	45.5	22.7	-4.8	-30.7	-50.4	-60.0	-57.7
21:00	69.7	54.6	30.6	2.7	-23.8	-43.7	-53.0
22:00	83.5	79.2	63.1	38.3	9.8	-17.1	-36.4
23:00	83.2	91.7	86.5	69.4	44.0	14.9	-11.3
00:00	60.1	87.2	96.5	90.1	72.3	46.2	17.7



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

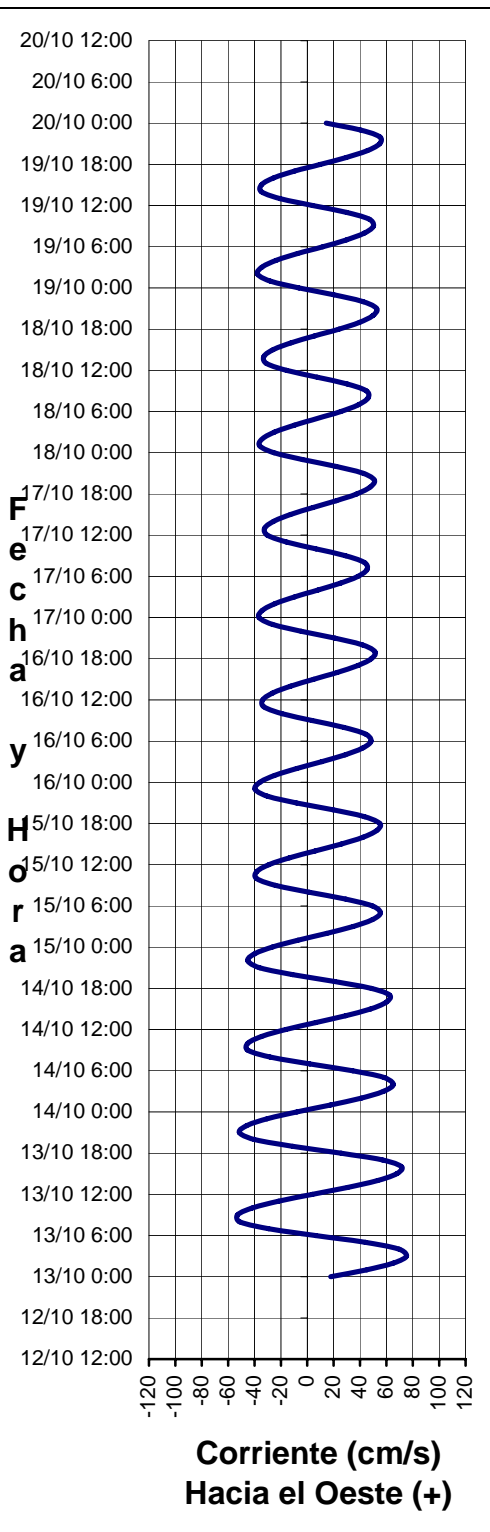
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 13/Oct/2010

Hasta 19/Oct/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	13/10	14/10	15/10	16/10	17/10	18/10	19/10
1	3:16	4:09	5:09	6:15	0:11	1:14	2:06
	75.8	65.3	55.6	48.6	-36.8	-36.5	-37.8
2	8:31	9:24	10:23	11:29	7:24	8:28	9:20
	-54.3	-46.8	-39.8	-34.8	46.0	47.0	50.7
3	15:50	16:45	17:47	18:53	12:36	13:35	14:25
	71.8	63.0	55.4	51.5	-32.9	-33.6	-36.3
4	21:00	21:58	23:03		19:56	20:50	21:36
	-51.5	-45.1	-39.7		50.9	52.8	56.4

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	13/10	14/10	15/10	16/10	17/10	18/10	19/10
00:00	17.7	-7.9	-26.6	-36.0	-36.6	-25.3	-6.4
01:00	45.1	17.6	-7.1	-24.8	-34.3	-36.0	-28.2
02:00	65.5	41.0	14.8	-8.1	-24.6	-34.2	-37.7
03:00	75.3	57.9	34.9	11.0	-9.5	-24.8	-34.5
04:00	69.7	65.2	49.4	28.8	8.2	-9.8	-23.7
05:00	44.0	58.3	55.5	42.1	25.2	8.0	-7.3
06:00	6.7	34.5	49.6	48.3	38.4	25.3	11.7
07:00	-29.3	1.9	29.2	44.5	45.3	38.8	29.7
08:00	-51.2	-28.2	1.4	27.8	43.5	46.2	43.4
09:00	-53.0	-45.2	-24.1	3.8	29.1	44.9	50.2
10:00	-42.0	-45.0	-38.5	-19.1	6.6	30.5	47.1
11:00	-21.7	-34.5	-38.3	-33.0	-15.8	7.4	29.8
12:00	4.0	-16.3	-29.2	-33.8	-30.3	-15.9	4.0
13:00	30.6	6.2	-13.5	-26.2	-32.3	-31.0	-20.5
14:00	53.3	29.1	6.0	-12.5	-25.6	-33.0	-34.8
15:00	67.8	48.2	25.8	4.9	-12.6	-25.9	-34.8
16:00	71.5	60.1	42.3	22.9	4.2	-12.2	-25.7
17:00	57.0	62.4	52.8	38.4	22.0	5.5	-9.8
18:00	25.7	48.6	55.0	48.5	37.4	23.9	9.8
19:00	-11.1	20.8	43.5	51.4	47.6	39.7	29.5
20:00	-40.4	-11.1	19.7	42.2	50.9	49.9	45.5
21:00	-51.5	-36.0	-8.2	21.1	42.5	52.6	54.8
22:00	-46.0	-45.1	-30.5	-4.7	22.0	42.4	55.0
23:00	-30.5	-40.1	-39.6	-26.3	-3.4	20.2	40.3
00:00	-7.9	-26.6	-36.0	-36.6	-25.3	-6.4	14.4



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 20/Oct/2010

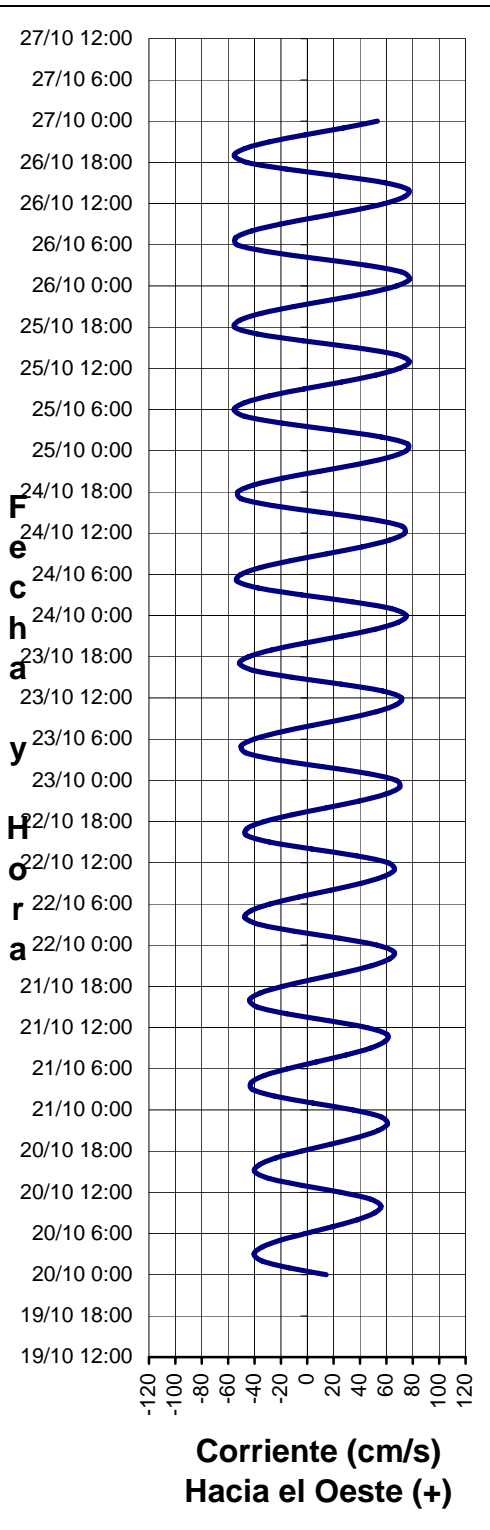
Hasta 26/Oct/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	20/10	21/10	22/10	23/10	24/10	25/10	26/10
1	2:50	3:28	4:03	4:37	0:00	0:37	1:16
	-40.4	-43.8	-47.4	-50.9	75.0	77.6	78.1
2	10:04	10:41	11:17	11:52	5:13	5:50	6:29
	55.9	61.4	66.6	71.6	-53.8	-55.6	-56.0
3	15:08	15:45	16:21	16:57	12:28	13:06	13:46
	-40.0	-44.0	-47.7	-51.3	75.2	77.3	77.3
4	22:15	22:50	23:25		17:33	18:12	18:53
	61.1	66.1	71.0		-53.9	-55.4	-55.4

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	20/10	21/10	22/10	23/10	24/10	25/10	26/10
00:00	14.4	34.6	52.8	67.4	75.0	75.1	67.7
01:00	-13.8	4.2	24.4	45.5	63.8	75.9	77.6
02:00	-34.4	-24.6	-9.3	11.0	33.8	56.0	71.8
03:00	-40.3	-41.7	-36.4	-23.8	-4.3	20.1	45.0
04:00	-34.4	-42.4	-47.3	-46.6	-37.2	-18.9	6.3
05:00	-20.7	-32.5	-42.6	-50.1	-53.2	-47.4	-30.8
06:00	-1.7	-15.0	-28.2	-40.4	-50.1	-55.5	-53.1
07:00	19.1	7.0	-6.7	-21.3	-35.5	-47.4	-54.4
08:00	37.7	29.3	17.7	3.7	-12.4	-28.5	-42.4
09:00	50.8	47.8	40.7	29.8	15.0	-2.5	-20.6
10:00	55.9	59.0	57.9	52.4	41.6	26.0	6.9
11:00	48.1	60.4	66.2	67.2	62.5	51.8	35.0
12:00	25.4	45.0	61.2	71.4	73.9	69.9	58.7
13:00	-3.8	16.0	37.5	57.3	71.9	77.3	73.6
14:00	-28.7	-15.7	3.3	25.7	48.6	67.4	76.7
15:00	-39.9	-38.3	-28.6	-11.6	11.4	36.8	59.4
16:00	-36.4	-43.7	-46.3	-40.9	-26.2	-3.3	24.3
17:00	-23.8	-35.8	-45.4	-51.3	-50.1	-38.1	-15.7
18:00	-4.7	-18.9	-32.7	-44.6	-52.7	-54.9	-45.9
19:00	17.4	3.8	-11.3	-26.9	-40.9	-51.3	-55.4
20:00	38.2	27.9	14.5	-1.6	-18.9	-35.2	-47.5
21:00	53.6	48.7	39.7	26.3	9.1	-10.2	-28.4
22:00	60.8	62.3	59.5	51.3	37.6	19.1	-1.7
23:00	55.9	65.8	70.0	68.7	61.1	46.8	27.4
00:00	34.6	52.8	67.4	75.0	75.1	67.7	53.2



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

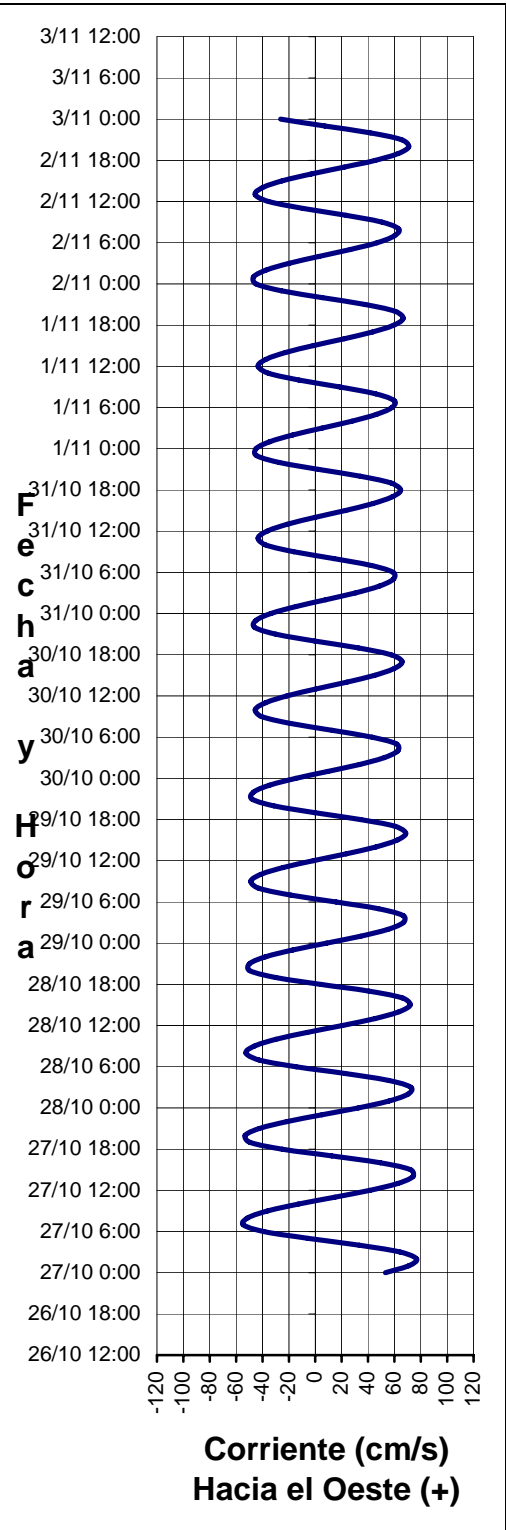
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 27/Oct/2010

Hasta 02/Nov/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	27/10	28/10	29/10	30/10	31/10	01/11	02/11
1	1:58	2:43	3:33	4:30	5:34	6:43	0:33
	76.8	73.4	68.7	64.0	60.9	60.6	-47.9
2	7:11	7:56	8:47	9:43	10:47	11:55	7:51
	-55.1	-52.6	-49.2	-45.9	-43.6	-43.4	63.5
3	14:29	15:15	16:07	17:05	18:08	19:13	13:01
	75.5	72.4	68.7	65.8	64.8	66.9	-45.5
4	19:36	20:25	21:19	22:20	23:26		20:15
	-54.1	-51.9	-49.2	-47.2	-46.4		71.3

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	27/10	28/10	29/10	30/10	31/10	01/11	02/11
00:00	53.2	32.7	8.7	-14.6	-33.7	-44.9	-44.9
01:00	70.8	55.9	34.3	9.6	-14.9	-34.8	-46.9
02:00	76.8	70.2	55.1	33.4	8.0	-17.0	-37.4
03:00	64.5	72.5	66.9	52.2	30.6	5.2	-19.7
04:00	33.3	55.5	66.6	62.6	48.8	27.8	3.0
05:00	-5.7	22.7	47.9	61.5	59.2	46.5	26.6
06:00	-38.9	-14.4	15.8	43.2	59.1	58.1	46.7
07:00	-54.6	-42.8	-18.5	12.8	42.6	59.8	59.8
08:00	-51.1	-52.6	-42.8	-18.8	14.2	45.7	63.2
09:00	-36.2	-46.3	-49.0	-40.7	-16.2	18.5	50.7
10:00	-12.8	-29.7	-41.4	-45.5	-37.8	-12.3	23.2
11:00	14.8	-6.0	-24.6	-37.8	-43.4	-35.6	-9.4
12:00	41.6	20.6	-1.6	-21.6	-36.5	-43.4	-35.4
13:00	62.6	45.2	23.5	0.4	-21.1	-37.5	-45.5
14:00	74.1	63.5	46.1	24.0	0.0	-22.7	-40.3
15:00	72.3	72.0	62.1	45.1	23.0	-1.6	-25.2
16:00	49.5	66.1	68.6	60.0	43.7	21.9	-3.0
17:00	12.6	40.6	60.5	65.8	58.5	43.6	22.1
18:00	-25.0	4.2	34.5	57.6	64.7	59.5	45.5
19:00	-49.6	-30.0	-0.2	32.6	57.6	66.6	62.8
20:00	-53.2	-49.8	-31.4	-0.4	34.2	60.9	70.9
21:00	-42.5	-49.9	-48.1	-30.0	2.3	38.0	65.5
22:00	-21.8	-37.9	-46.8	-46.0	-27.3	5.5	41.7
23:00	5.0	-17.0	-34.7	-45.0	-44.5	-25.6	7.2
00:00	32.7	8.7	-14.6	-33.7	-44.9	-44.9	-26.3



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 03/Nov/2010

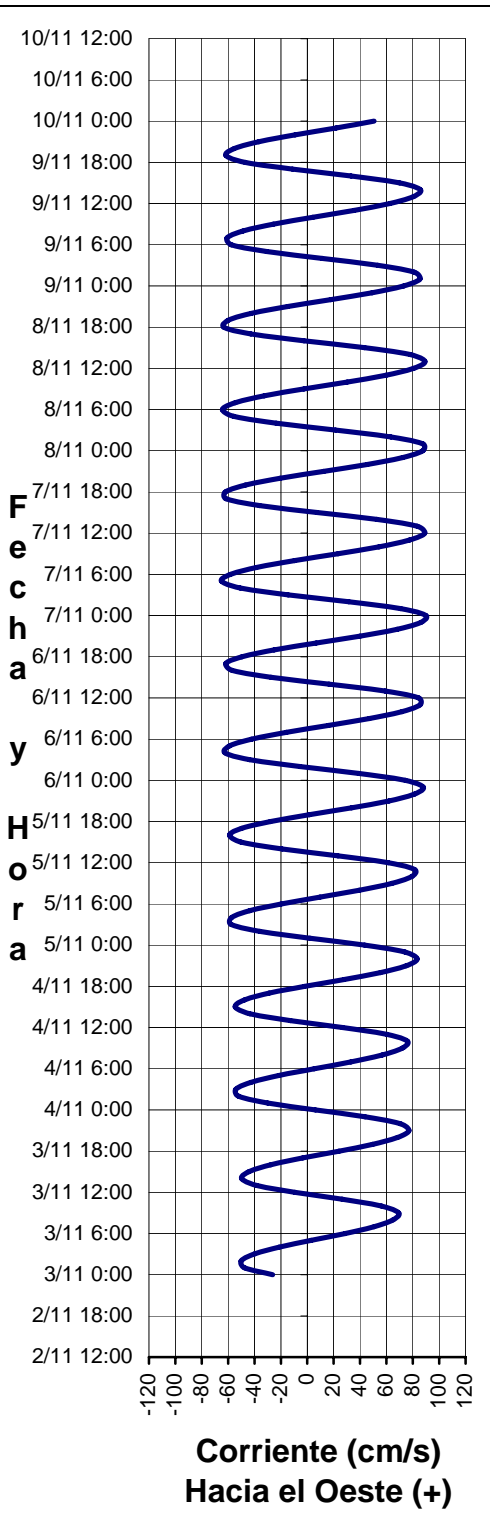
Hasta 09/Nov/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	03/11	04/11	05/11	06/11	07/11	08/11	09/11
1	1:35	2:31	3:24	4:13	5:01	0:34	1:22
	-51.1	-55.4	-59.8	-63.2	-65.0	90.1	86.5
2	8:53	9:50	10:42	11:32	12:19	5:48	6:35
	69.5	76.3	82.5	87.5	89.9	-64.7	-62.0
3	14:01	14:57	15:49	16:38	17:26	13:06	13:54
	-49.8	-54.7	-59.2	-62.8	-64.5	89.3	85.9
4	21:13	22:08	22:58	23:47		18:14	19:02
	77.3	83.3	88.0	90.6		-64.1	-61.7

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	03/11	04/11	05/11	06/11	07/11	08/11	09/11
00:00	-26.3	6.1	43.4	74.3	90.0	87.7	73.2
01:00	-47.5	-30.1	2.0	39.0	70.8	87.6	85.5
02:00	-50.2	-52.2	-36.1	-5.4	31.4	63.4	81.1
03:00	-40.3	-54.1	-57.7	-43.7	-14.5	21.4	53.3
04:00	-21.4	-42.7	-57.5	-62.5	-50.9	-23.6	11.1
05:00	3.0	-21.7	-43.7	-59.0	-65.0	-55.9	-30.8
06:00	28.6	5.2	-19.9	-42.3	-58.3	-64.4	-57.5
07:00	50.6	33.0	9.6	-15.7	-38.7	-54.6	-60.8
08:00	65.1	56.7	39.5	16.0	-9.7	-32.7	-48.8
09:00	69.4	72.0	64.2	47.1	23.2	-2.6	-25.6
10:00	56.3	76.0	79.3	71.7	54.2	30.2	4.3
11:00	26.4	60.4	81.4	85.5	77.6	59.8	35.6
12:00	-9.5	26.8	61.4	84.4	89.1	80.8	62.7
13:00	-38.4	-12.7	23.3	59.0	83.3	89.3	80.5
14:00	-49.8	-43.6	-19.1	16.5	52.6	78.2	85.8
15:00	-44.2	-54.7	-50.3	-27.6	7.2	43.5	69.9
16:00	-27.7	-47.7	-59.0	-57.0	-36.1	-2.5	33.1
17:00	-3.4	-29.0	-49.7	-61.8	-61.6	-42.9	-11.2
18:00	24.1	-2.1	-28.1	-49.5	-62.2	-63.2	-47.1
19:00	49.6	27.9	1.5	-25.1	-47.0	-60.0	-61.6
20:00	68.4	55.3	33.6	6.7	-20.4	-42.6	-55.4
21:00	77.0	75.0	62.0	39.9	12.5	-15.0	-36.8
22:00	70.4	83.2	81.4	68.2	45.5	17.6	-9.3
23:00	43.9	74.0	88.0	86.1	72.2	49.0	21.9
00:00	6.1	43.4	74.3	90.0	87.7	73.2	50.6



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

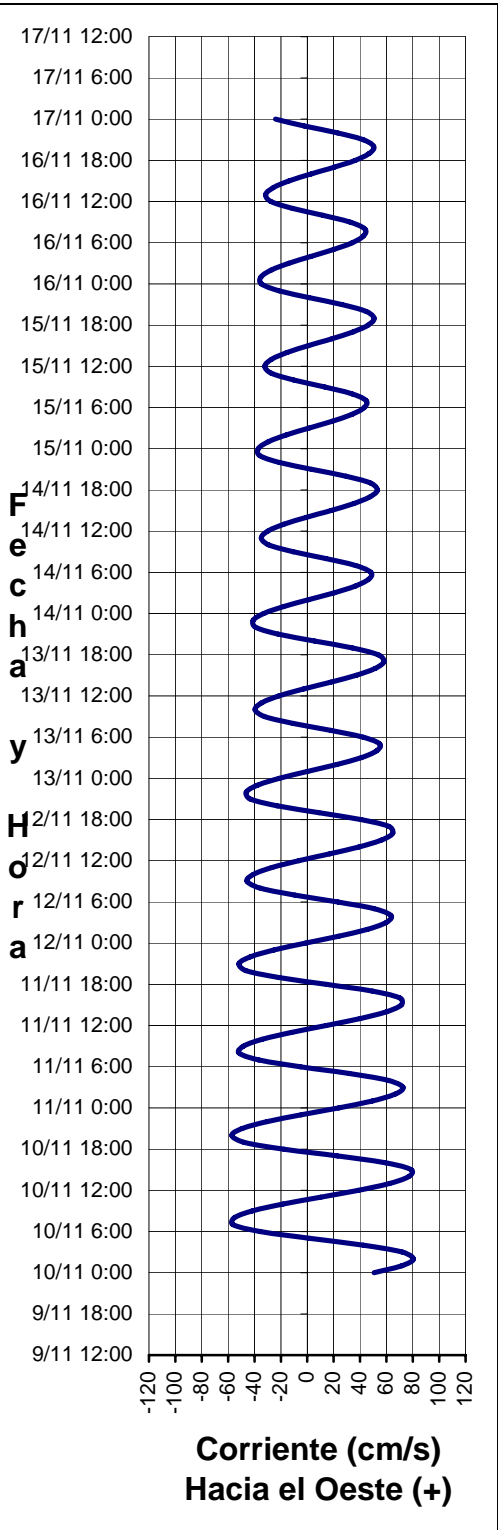
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 10/Nov/2010

Hasta 16/Nov/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	10/11	11/11	12/11	13/11	14/11	15/11	16/11
1	2:10	2:59	3:50	4:45	5:43	6:43	0:27
	80.7	72.6	63.7	55.4	48.8	45.2	-36.3
2	7:22	8:11	9:01	9:55	10:52	11:50	7:41
	-57.9	-52.1	-45.7	-39.7	-35.0	-32.3	44.4
3	14:41	15:31	16:22	17:16	18:11	19:06	12:46
	79.9	72.9	65.6	58.5	53.3	50.7	-31.8
4	19:52	20:43	21:36	22:33	23:30		19:57
	-57.3	-52.3	-47.0	-41.9	-38.2		50.4

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	10/11	11/11	12/11	13/11	14/11	15/11	16/11
00:00	50.6	23.8	-1.4	-21.1	-33.1	-37.2	-34.8
01:00	71.5	49.1	23.9	0.2	-18.2	-29.7	-35.1
02:00	80.5	66.5	45.6	22.3	0.8	-16.0	-27.5
03:00	72.1	72.6	59.8	41.0	20.3	1.4	-14.0
04:00	42.4	61.4	63.5	52.6	36.6	19.1	2.8
05:00	1.8	32.0	50.8	54.8	46.6	34.0	19.9
06:00	-35.5	-5.1	23.3	42.3	48.2	43.1	34.0
07:00	-56.2	-36.8	-9.3	17.5	36.6	44.6	42.6
08:00	-55.4	-51.7	-35.4	-10.8	14.4	33.9	43.7
09:00	-41.7	-48.3	-45.7	-32.4	-10.6	13.1	32.6
10:00	-18.5	-34.1	-40.9	-39.6	-29.2	-10.1	11.7
11:00	10.1	-11.8	-27.0	-34.5	-34.9	-27.3	-11.2
12:00	38.8	14.4	-6.5	-21.5	-29.8	-32.2	-27.6
13:00	62.5	40.0	17.0	-2.9	-17.7	-27.2	-31.6
14:00	76.9	60.1	39.3	17.9	-0.7	-15.5	-25.9
15:00	78.7	71.4	56.2	37.2	18.1	0.8	-13.7
16:00	59.4	70.2	64.9	51.5	35.3	18.6	2.8
17:00	22.9	49.4	61.6	58.2	47.7	34.7	20.6
18:00	-17.8	14.7	40.8	53.8	53.2	46.1	36.3
19:00	-48.0	-21.5	9.0	34.1	48.1	50.6	46.9
20:00	-57.2	-46.5	-22.8	5.6	29.5	44.7	50.4
21:00	-49.4	-51.8	-43.3	-22.1	3.5	26.3	42.5
22:00	-30.6	-43.2	-46.2	-39.3	-21.2	1.5	22.8
23:00	-4.6	-25.3	-37.7	-41.0	-36.1	-21.4	-2.2
00:00	23.8	-1.4	-21.1	-33.1	-37.2	-34.8	-24.1



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

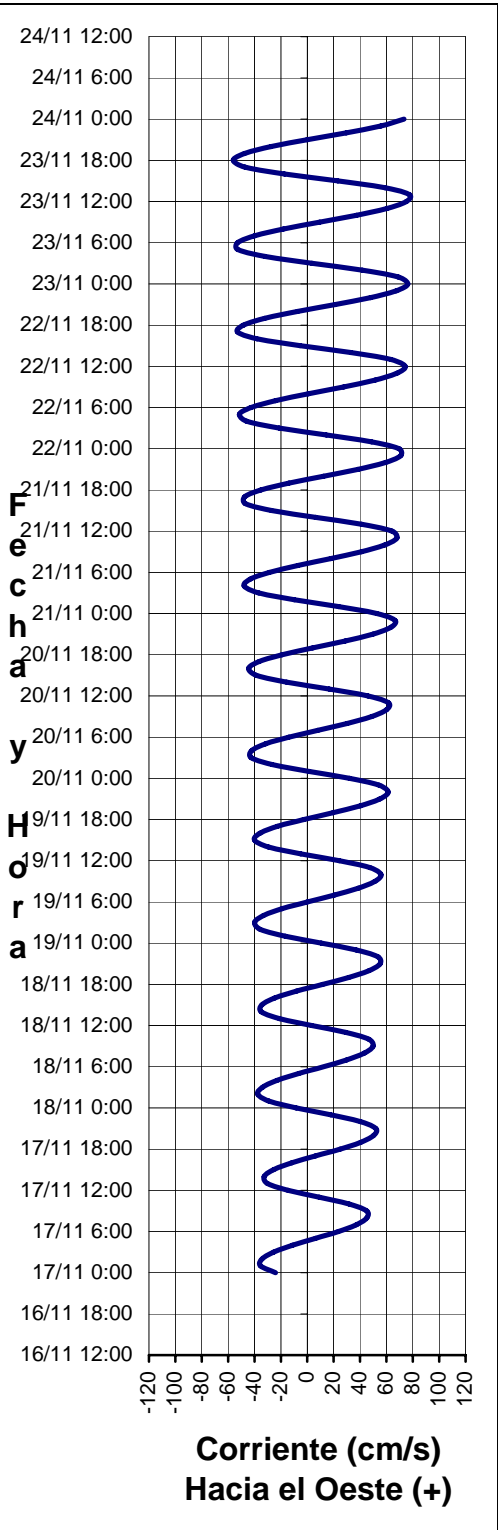
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 17/Nov/2010

Hasta 23/Nov/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	17/11	18/11	19/11	20/11	21/11	22/11	23/11
1	1:18	2:03	2:44	3:24	4:03	4:44	0:12
	-36.1	-37.6	-40.2	-44.0	-47.9	-51.9	76.5
2	8:34	9:20	10:02	10:42	11:22	12:02	5:25
	46.5	50.4	55.9	62.4	68.7	74.2	-54.9
3	13:37	14:23	15:05	15:46	16:26	17:08	12:44
	-33.3	-36.1	-40.0	-44.7	-49.2	-53.2	78.4
4	20:44	21:27	22:08	22:48	23:29		17:51
	52.5	56.2	61.4	66.9	72.4		-56.2

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	17/11	18/11	19/11	20/11	21/11	22/11	23/11
00:00	-24.1	-8.4	10.7	32.0	52.7	69.5	76.3
01:00	-35.4	-29.2	-16.7	1.4	24.0	48.7	69.1
02:00	-34.2	-37.6	-35.7	-26.7	-9.8	14.4	41.7
03:00	-25.5	-34.0	-39.9	-42.5	-36.9	-21.3	3.5
04:00	-11.1	-22.9	-33.3	-42.2	-47.9	-46.0	-32.1
05:00	6.3	-6.5	-19.2	-31.9	-43.2	-51.5	-52.7
06:00	23.5	12.2	-0.1	-14.0	-28.7	-42.8	-52.9
07:00	37.3	29.9	20.4	8.1	-7.2	-24.3	-40.2
08:00	45.2	43.3	38.6	30.4	17.6	0.7	-18.1
09:00	45.1	50.0	51.2	48.8	41.1	27.6	9.4
10:00	31.8	46.7	55.9	60.0	58.9	51.4	37.4
11:00	9.1	29.2	47.5	61.5	68.0	68.0	60.7
12:00	-14.6	3.4	24.3	45.9	64.2	74.2	75.1
13:00	-30.3	-21.0	-5.1	16.6	41.1	63.4	77.5
14:00	-32.7	-34.9	-29.5	-15.7	6.3	33.2	59.0
15:00	-25.6	-34.4	-40.0	-38.8	-27.2	-5.4	23.1
16:00	-11.7	-24.7	-35.9	-44.4	-47.0	-38.1	-17.3
17:00	6.3	-8.2	-22.6	-36.5	-47.4	-53.0	-47.2
18:00	24.9	11.7	-2.9	-19.2	-35.2	-48.5	-56.1
19:00	40.5	31.4	19.5	4.0	-13.9	-32.2	-47.6
20:00	50.3	46.9	40.1	28.6	12.4	-7.4	-27.7
21:00	51.9	55.2	55.1	49.8	38.5	21.2	-0.2
22:00	40.5	53.6	61.3	63.3	59.4	47.9	29.5
23:00	17.8	37.1	54.5	66.5	70.9	67.5	55.7
00:00	-8.4	10.7	32.0	52.7	69.5	76.3	73.3



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 24/Nov/2010

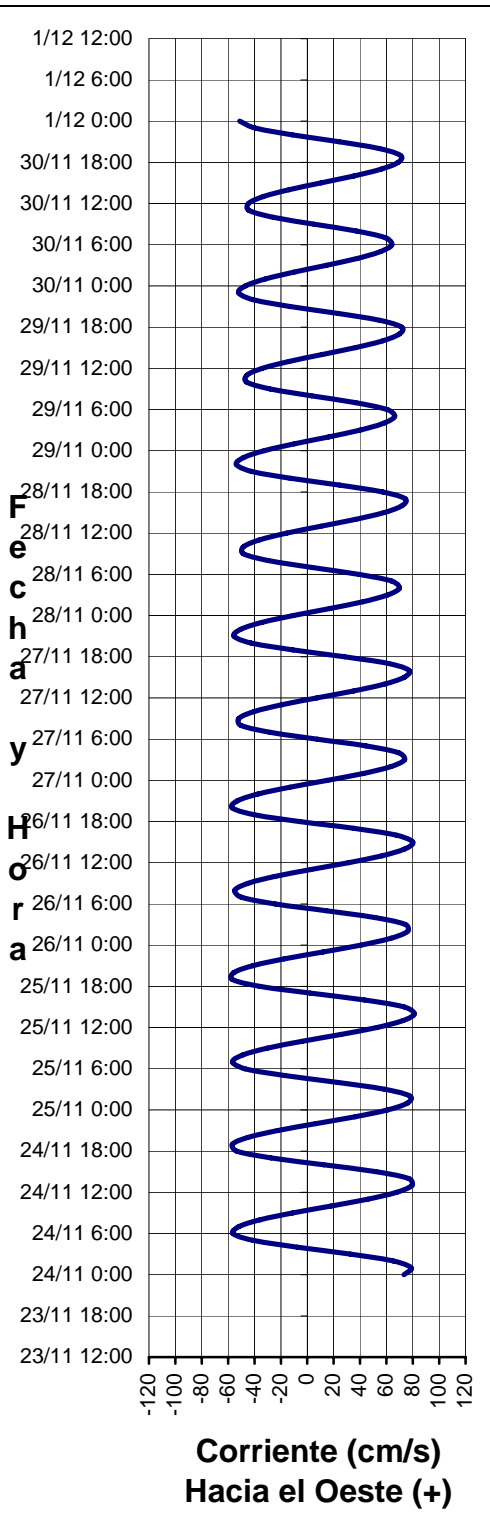
Hasta 30/Nov/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	24/11	25/11	26/11	27/11	28/11	29/11	30/11
1	0:55	1:41	2:29	3:20	4:15	5:14	6:18
	78.9	79.1	77.6	74.4	70.3	66.6	64.5
2	6:08	6:53	7:40	8:31	9:25	10:24	11:27
	-56.6	-56.8	-55.6	-53.4	-50.4	-47.7	-46.2
3	13:27	14:12	14:59	15:49	16:43	17:41	18:43
	80.7	81.5	79.9	77.6	75.0	72.6	71.6
4	18:35	19:21	20:11	21:03	22:00	23:01	
	-57.9	-58.5	-57.3	-55.6	-53.8	-52.1	

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	24/11	25/11	26/11	27/11	28/11	29/11	30/11
00:00	73.3	60.9	40.7	15.5	-10.5	-32.7	-46.9
01:00	78.8	76.0	63.5	42.7	16.8	-9.8	-32.0
02:00	65.2	77.9	76.0	63.4	42.2	16.2	-10.1
03:00	32.6	58.8	74.4	73.7	61.1	40.2	14.8
04:00	-7.6	22.9	51.5	69.3	69.9	58.1	38.1
05:00	-41.1	-17.2	14.2	44.5	64.1	66.3	55.6
06:00	-56.3	-47.2	-24.2	7.6	39.2	60.6	64.0
07:00	-52.0	-56.7	-50.1	-28.2	3.8	36.8	59.5
08:00	-35.9	-49.0	-55.0	-50.3	-29.3	3.2	37.3
09:00	-11.1	-30.2	-45.0	-52.0	-48.4	-28.2	4.9
10:00	17.9	-3.7	-24.6	-40.5	-48.4	-46.1	-26.0
11:00	45.9	25.8	2.4	-19.5	-36.4	-45.7	-44.2
12:00	67.7	52.8	31.3	7.3	-15.5	-34.0	-44.6
13:00	79.4	72.5	56.6	34.9	10.4	-13.8	-33.5
14:00	76.9	81.2	73.9	58.4	36.7	11.2	-13.9
15:00	52.1	73.4	79.9	73.5	58.5	36.5	10.5
16:00	12.5	43.5	67.6	77.2	71.9	57.3	35.4
17:00	-27.5	2.2	35.3	61.7	74.1	70.0	56.1
18:00	-53.4	-35.8	-5.5	28.5	57.4	71.6	68.8
19:00	-56.8	-56.8	-40.4	-10.9	24.6	54.9	70.7
20:00	-45.0	-55.8	-56.9	-42.6	-13.0	23.2	54.9
21:00	-22.5	-41.4	-53.2	-55.6	-42.5	-12.9	24.1
22:00	6.4	-17.4	-37.5	-50.4	-53.8	-41.2	-11.4
23:00	36.1	11.9	-13.1	-34.4	-48.3	-52.1	-39.7
00:00	60.9	40.7	15.5	-10.5	-32.7	-46.9	-51.3



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

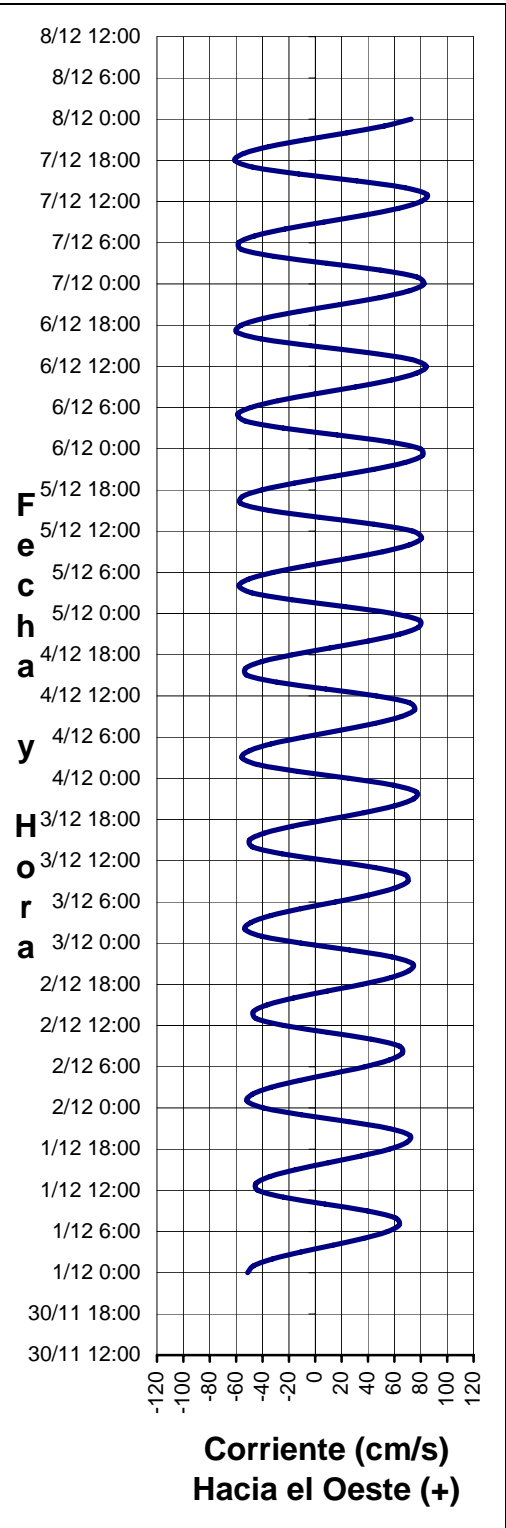
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 01/Dic/2010

Hasta 07/Dic/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	01/12	02/12	03/12	04/12	05/12	06/12	07/12
1	0:04	1:06	2:05	3:01	3:54	4:44	0:19
	-51.3	-51.9	-53.4	-55.6	-57.9	-59.4	83.1
2	7:23	8:26	9:26	10:22	11:15	12:04	5:32
	64.5	67.1	71.3	76.3	81.0	84.1	-59.6
3	12:31	13:33	14:33	15:29	16:22	17:12	12:52
	-46.2	-48.1	-51.1	-54.7	-58.1	-60.3	84.9
4	19:44	20:45	21:43	22:38	23:29		18:00
	72.4	74.4	77.6	80.7	82.8		-60.9

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	01/12	02/12	03/12	04/12	05/12	06/12	07/12
00:00	-51.3	-39.4	-10.9	25.5	59.0	79.5	82.4
01:00	-46.7	-51.8	-40.7	-13.2	22.5	55.7	77.1
02:00	-32.5	-47.5	-53.3	-43.7	-17.8	16.5	49.5
03:00	-11.1	-33.3	-48.7	-55.6	-48.0	-24.4	8.6
04:00	13.4	-11.6	-33.7	-50.0	-57.8	-52.6	-31.1
05:00	36.7	13.5	-11.1	-33.5	-50.4	-58.9	-55.9
06:00	54.6	37.5	15.2	-9.2	-31.8	-49.1	-58.2
07:00	63.7	56.2	40.4	18.7	-5.4	-28.2	-45.9
08:00	60.6	66.1	59.9	45.1	24.0	0.0	-23.0
09:00	39.6	63.8	70.2	65.2	51.2	30.5	6.4
10:00	7.4	42.7	67.8	75.4	71.3	57.6	36.9
11:00	-24.0	9.6	45.4	71.5	80.6	76.7	63.0
12:00	-43.5	-23.6	10.1	46.3	73.7	84.1	80.0
13:00	-44.9	-44.7	-25.1	8.1	44.6	72.8	84.7
14:00	-34.3	-47.0	-47.5	-29.2	3.4	39.5	68.1
15:00	-14.9	-36.4	-49.9	-51.8	-34.9	-3.9	31.3
16:00	9.7	-16.5	-38.7	-53.0	-56.3	-41.5	-12.5
17:00	35.0	9.0	-17.6	-40.3	-55.4	-59.8	-47.4
18:00	56.1	35.3	9.3	-17.4	-40.7	-56.0	-60.9
19:00	69.3	57.4	37.0	11.2	-15.8	-39.0	-54.2
20:00	71.6	71.2	60.2	40.2	14.5	-12.3	-35.1
21:00	56.2	73.8	74.4	64.0	44.3	18.9	-7.4
22:00	25.4	57.9	76.6	78.1	68.1	48.7	23.8
23:00	-10.5	26.1	59.3	79.1	81.2	71.3	52.3
00:00	-39.4	-10.9	25.5	59.0	79.5	82.4	72.7



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

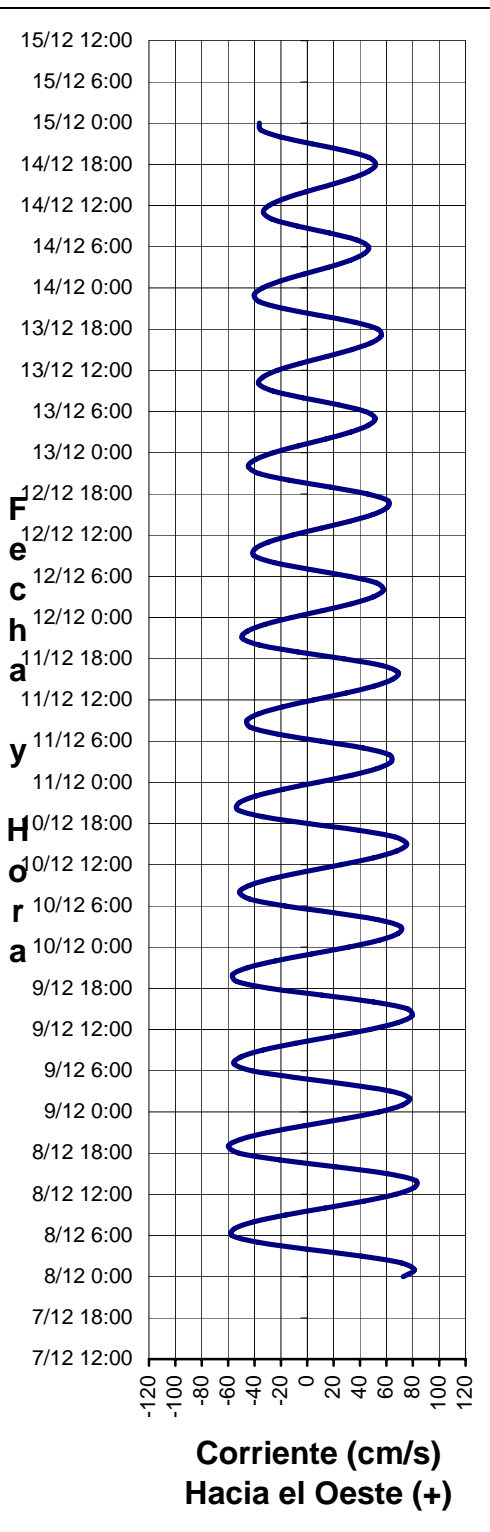
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 08/Dic/2010

Hasta 14/Dic/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	08/12	09/12	10/12	11/12	12/12	13/12	14/12
1	1:07	1:54	2:41	3:28	4:15	5:03	5:53
	81.2	77.6	71.8	65.0	58.0	51.5	46.5
2	6:19	7:05	7:50	8:36	9:22	10:09	10:57
	-58.3	-55.6	-51.5	-46.6	-41.5	-36.8	-33.3
3	13:38	14:24	15:09	15:54	16:38	17:23	18:10
	83.8	80.5	75.5	69.0	62.4	56.7	52.0
4	18:48	19:35	20:21	21:07	21:54	22:42	23:31
	-60.1	-57.7	-54.1	-49.4	-44.7	-40.6	-37.2

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	08/12	09/12	10/12	11/12	12/12	13/12	14/12
00:00	72.7	54.5	31.3	7.8	-11.8	-25.8	-33.8
01:00	81.1	72.1	54.7	33.0	11.6	-6.7	-20.5
02:00	71.5	77.5	68.9	53.0	33.6	14.2	-2.7
03:00	40.8	63.5	70.7	63.8	50.0	33.1	16.1
04:00	-0.4	30.7	53.0	62.1	57.7	46.4	32.4
05:00	-37.3	-9.1	19.9	42.3	52.8	51.4	43.2
06:00	-57.0	-41.7	-16.7	10.4	31.9	44.2	46.4
07:00	-55.2	-55.6	-43.6	-21.8	2.4	23.4	37.4
08:00	-40.5	-50.4	-51.4	-42.8	-25.0	-3.4	17.0
09:00	-16.2	-33.9	-43.8	-45.8	-40.3	-26.2	-7.3
10:00	13.4	-8.9	-26.0	-36.5	-39.6	-36.7	-26.5
11:00	42.9	19.9	-1.4	-18.5	-29.1	-33.7	-33.3
12:00	67.0	47.4	25.7	4.9	-11.4	-22.6	-28.9
13:00	81.2	68.5	50.3	29.5	10.4	-5.4	-17.5
14:00	82.1	79.5	67.9	50.7	32.1	14.6	-1.0
15:00	60.6	75.9	75.4	64.7	49.9	33.7	17.5
16:00	21.5	50.4	67.1	68.9	60.4	48.4	34.4
17:00	-21.0	11.0	39.1	56.5	61.2	56.0	46.6
18:00	-51.8	-28.3	1.0	27.8	45.8	53.6	51.9
19:00	-59.9	-53.4	-33.6	-7.3	17.6	36.3	46.8
20:00	-50.7	-56.6	-52.6	-36.4	-13.7	9.4	28.6
21:00	-30.1	-45.4	-51.7	-49.3	-37.1	-17.9	3.3
22:00	-2.0	-24.1	-39.1	-45.5	-44.7	-36.4	-20.6
23:00	28.1	3.2	-17.9	-32.1	-39.3	-40.2	-35.1
00:00	54.5	31.3	7.8	-11.8	-25.8	-33.8	-36.4



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

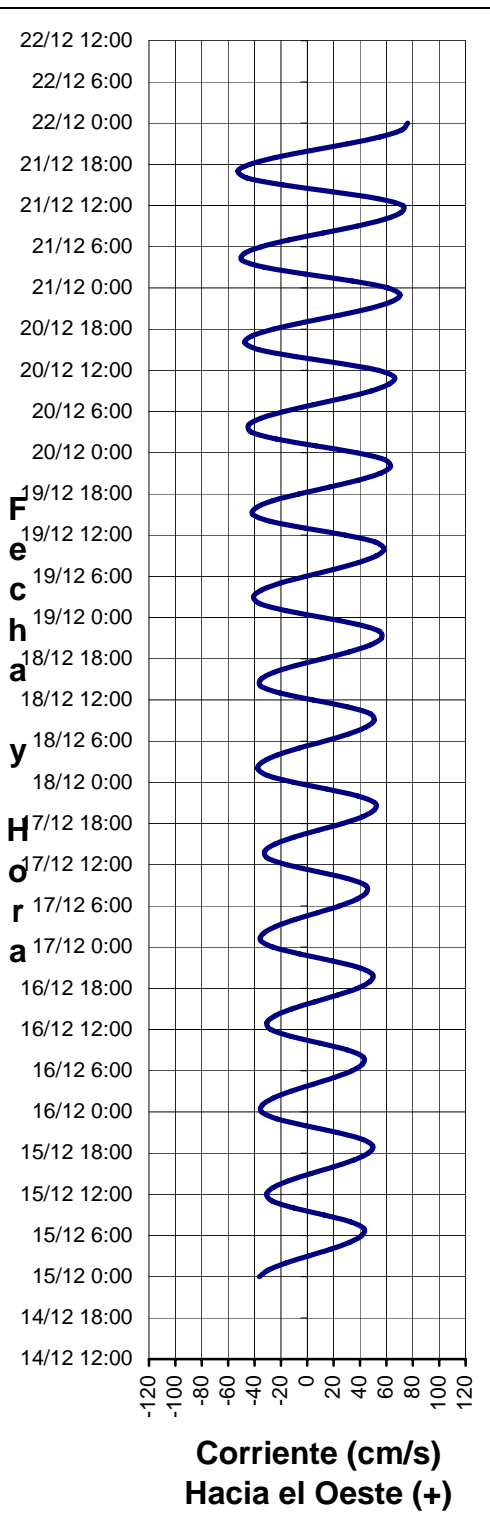
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 15/Dic/2010

Hasta 21/Dic/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	15/12	16/12	17/12	18/12	19/12	20/12	21/12
1	6:45	0:20	1:10	1:59	2:47	3:33	4:19
	43.4	-35.5	-35.7	-37.6	-41.0	-45.5	-50.4
2	11:48	7:38	8:31	9:21	10:09	10:54	11:39
	-31.0	43.4	46.0	51.2	58.3	66.1	73.7
3	18:57	12:41	13:33	14:25	15:13	16:00	16:47
	49.6	-31.0	-32.9	-36.7	-41.7	-47.4	-52.8
4		19:47	20:37	21:27	22:16	23:04	23:52
		49.9	52.5	57.2	63.5	70.3	76.3

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	15/12	16/12	17/12	18/12	19/12	20/12	21/12
00:00	-36.4	-34.7	-26.0	-10.4	11.6	37.3	61.1
01:00	-29.2	-34.0	-35.5	-30.3	-16.2	6.3	34.3
02:00	-16.1	-25.9	-33.2	-37.6	-35.8	-23.7	-1.0
03:00	0.6	-12.4	-23.9	-33.5	-40.8	-42.5	-32.5
04:00	17.8	4.0	-9.4	-22.3	-34.5	-44.5	-49.3
05:00	32.2	20.5	7.8	-5.8	-20.5	-35.3	-47.8
06:00	41.2	33.9	24.5	13.0	-1.2	-17.8	-35.0
07:00	42.9	41.9	37.7	30.6	19.8	4.7	-13.9
08:00	32.8	42.4	45.0	44.0	38.8	28.2	11.9
09:00	12.7	30.8	44.2	50.7	52.4	48.5	37.6
10:00	-9.9	9.9	30.3	47.8	58.1	61.9	58.7
11:00	-26.4	-12.4	7.5	30.3	51.5	66.0	71.2
12:00	-30.9	-27.7	-15.7	4.2	28.9	53.7	72.3
13:00	-25.6	-30.6	-30.5	-20.7	-1.3	25.2	53.5
14:00	-13.7	-24.3	-32.1	-35.2	-28.0	-9.2	19.0
15:00	2.6	-11.6	-24.4	-35.1	-41.2	-36.7	-18.6
16:00	20.1	5.3	-10.1	-25.4	-38.6	-47.4	-45.7
17:00	35.6	22.9	8.1	-8.7	-26.1	-41.8	-52.5
18:00	46.1	37.9	26.7	11.7	-6.4	-25.8	-43.6
19:00	49.6	47.5	41.9	31.8	16.7	-2.5	-24.1
20:00	42.0	49.6	50.9	47.7	38.7	23.4	2.5
21:00	22.8	39.6	51.4	56.3	55.2	47.1	30.8
22:00	-1.5	18.9	38.6	54.7	63.1	63.8	55.4
23:00	-23.1	-5.7	15.4	38.2	58.5	70.2	71.6
00:00	-34.7	-26.0	-10.4	11.6	37.3	61.1	76.1



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

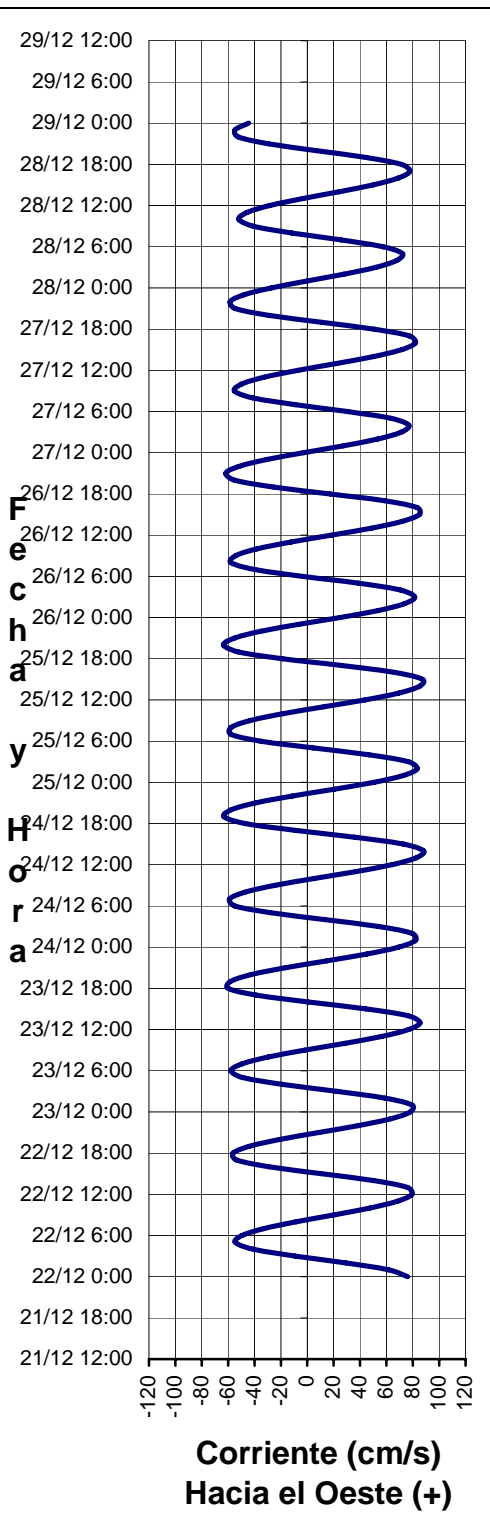
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 22/Dic/2010

Hasta 28/Dic/2010

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	22/12	23/12	24/12	25/12	26/12	27/12	28/12
1	5:05	0:39	1:26	2:15	3:04	3:56	4:51
	-54.7	81.0	83.6	83.8	81.5	77.1	72.4
2	12:24	5:51	6:37	7:24	8:13	9:04	9:58
	80.5	-58.1	-60.0	-60.1	-58.5	-55.3	-51.9
3	17:33	13:10	13:55	14:41	15:30	16:20	17:14
	-57.7	85.7	88.3	88.6	86.7	82.8	78.1
4		18:19	19:06	19:54	20:44	21:37	22:33
		-61.5	-63.3	-63.5	-62.2	-59.4	-56.0

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	22/12	23/12	24/12	25/12	26/12	27/12	28/12
00:00	76.1	78.1	69.4	50.6	25.0	-2.8	-27.2
01:00	61.7	79.4	82.2	73.0	53.5	27.3	-0.3
02:00	29.4	59.1	79.5	83.4	73.6	53.7	28.0
03:00	-9.3	22.0	53.9	76.5	81.5	71.4	52.2
04:00	-41.0	-18.9	13.3	46.7	70.6	77.0	67.9
05:00	-54.6	-49.0	-27.8	4.4	38.5	63.5	72.1
06:00	-49.6	-57.9	-54.8	-35.2	-3.4	30.9	57.5
07:00	-33.3	-49.6	-59.0	-57.9	-39.9	-8.9	25.7
08:00	-8.6	-29.7	-47.4	-57.8	-57.8	-41.6	-11.7
09:00	20.1	-1.9	-24.5	-43.3	-54.4	-55.2	-41.2
10:00	47.4	28.8	5.4	-18.4	-38.1	-49.8	-51.9
11:00	68.5	56.7	36.9	12.6	-12.2	-32.7	-45.6
12:00	79.4	76.8	64.3	43.8	18.5	-7.0	-28.4
13:00	76.0	85.5	82.5	69.6	48.4	22.5	-3.6
14:00	50.3	76.4	88.2	85.3	72.0	50.4	24.2
15:00	10.5	44.4	72.8	87.2	85.0	71.5	50.1
16:00	-29.0	0.8	35.9	66.2	83.4	82.1	69.1
17:00	-53.8	-38.7	-9.3	26.2	58.6	77.4	77.8
18:00	-56.3	-60.0	-46.8	-18.5	17.6	50.9	71.4
19:00	-43.9	-58.3	-63.2	-52.4	-25.3	10.9	44.8
20:00	-20.8	-42.6	-57.8	-63.5	-55.0	-28.8	6.9
21:00	8.6	-16.6	-39.3	-55.4	-61.8	-54.6	-29.7
22:00	38.5	14.8	-11.5	-35.2	-51.9	-58.5	-52.4
23:00	63.3	45.4	20.6	-6.6	-30.9	-47.9	-54.9
00:00	78.1	69.4	50.6	25.0	-2.8	-27.2	-44.4



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

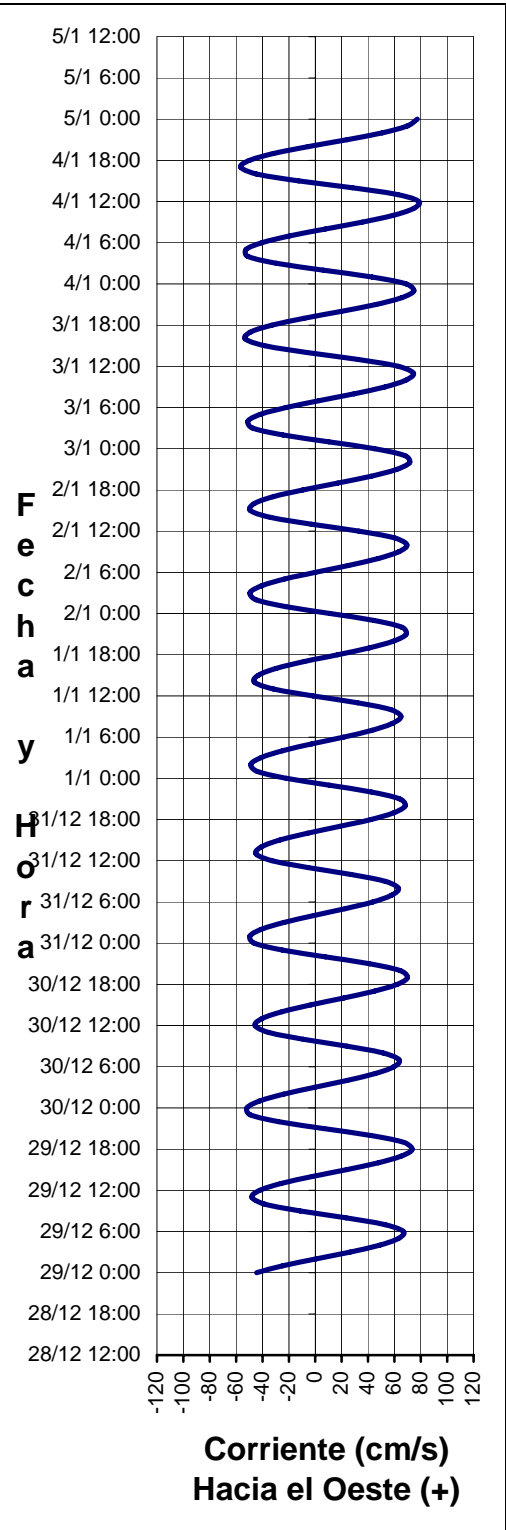
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 29/Dic/2010

Hasta 04/Ene/2011

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	29/12	30/12	31/12	01/01	02/01	03/01	04/01
1	5:50	6:53	0:37	1:44	2:42	3:38	4:30
	67.1	63.7	-50.4	-49.2	-50.0	-51.9	-53.9
2	10:57	12:00	8:00	9:09	10:05	11:00	11:50
	-48.1	-45.7	63.0	65.0	69.5	74.4	78.9
3	18:12	19:14	13:07	14:12	15:13	16:08	16:59
	73.7	70.3	-45.1	-46.6	-49.8	-53.4	-56.6
4	23:34		20:19	21:22	22:21	23:15	
	-52.8		68.7	69.7	72.4	75.2	

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	29/12	30/12	31/12	01/01	02/01	03/01	04/01
00:00	-44.4	-51.8	-46.4	-21.9	11.2	45.0	69.0
01:00	-24.8	-42.2	-49.7	-44.0	-22.3	10.2	43.1
02:00	0.4	-23.9	-41.0	-48.9	-45.0	-24.6	6.0
03:00	26.5	-0.3	-23.8	-41.2	-49.5	-47.4	-29.6
04:00	48.8	24.3	-1.3	-24.9	-41.1	-51.1	-51.1
05:00	63.2	45.6	22.6	-2.7	-23.6	-41.5	-52.4
06:00	66.8	59.5	43.6	21.3	-0.2	-22.4	-40.7
07:00	53.0	63.6	57.9	42.9	25.0	2.7	-19.4
08:00	23.3	51.6	63.0	58.4	47.5	29.4	7.6
09:00	-11.4	24.0	53.1	64.9	63.2	52.8	35.5
10:00	-38.5	-9.0	27.2	57.4	69.4	68.8	59.3
11:00	-48.1	-35.5	-5.4	32.1	60.3	74.4	74.6
12:00	-42.0	-45.7	-32.8	-1.8	32.9	62.9	78.6
13:00	-25.8	-40.4	-45.0	-31.6	-2.8	32.3	62.6
14:00	-2.4	-25.3	-41.0	-46.1	-34.0	-6.1	28.0
15:00	23.7	-3.3	-27.0	-43.2	-49.3	-38.5	-12.6
16:00	47.9	21.7	-5.8	-29.6	-46.2	-53.2	-44.7
17:00	65.5	44.9	18.7	-8.3	-32.0	-48.8	-56.6
18:00	73.4	62.0	42.0	16.8	-9.5	-32.9	-49.9
19:00	67.0	69.9	59.5	40.9	17.0	-8.6	-31.7
20:00	41.9	64.5	68.2	59.5	42.3	19.5	-5.4
21:00	6.4	41.2	64.1	69.0	61.8	45.9	24.0
22:00	-27.8	7.6	42.8	65.7	71.6	65.6	50.7
23:00	-49.3	-25.2	10.6	44.3	67.9	74.8	69.7
00:00	-51.8	-46.4	-21.9	11.2	45.0	69.0	77.3



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 05/Ene/2011

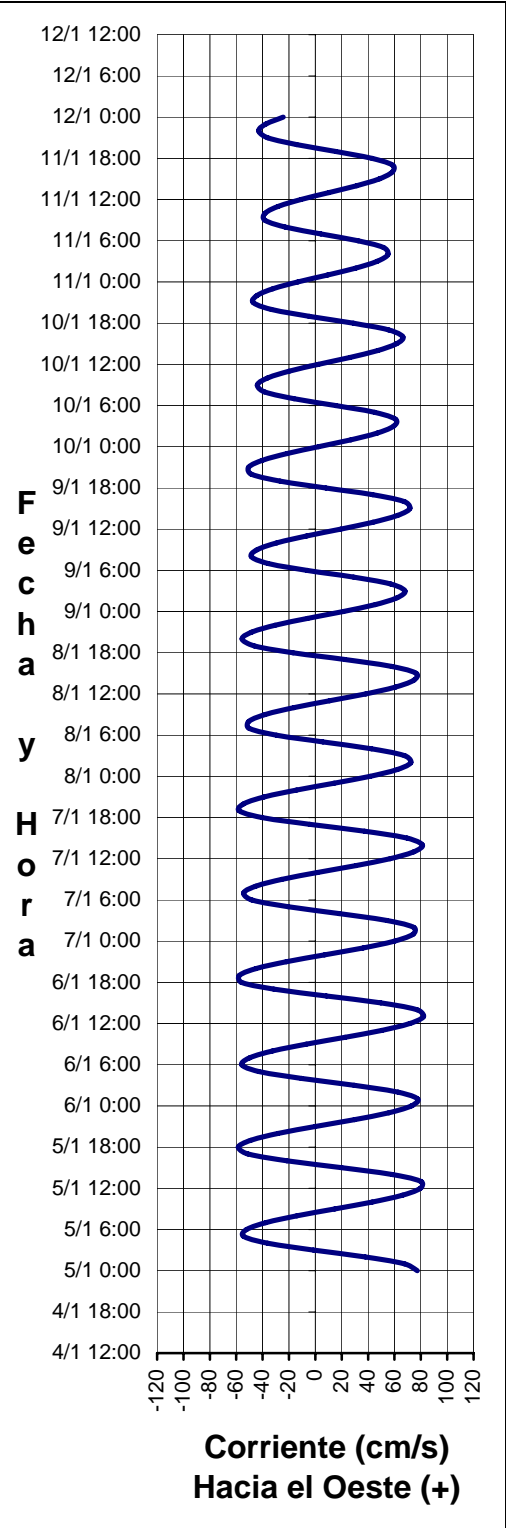
Hasta 11/Ene/2011

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	05/01	06/01	07/01	08/01	09/01	10/01	11/01
1	0:05	0:52	1:36	2:19	3:00	3:40	4:20
	77.3	77.8	76.5	73.1	67.9	61.9	55.6
2	5:17	6:02	6:45	7:26	8:06	8:45	9:24
	-55.4	-55.8	-54.9	-52.4	-48.7	-44.4	-39.8
3	12:37	13:20	14:02	14:41	15:20	15:57	16:35
	82.0	82.8	81.2	77.6	72.4	66.3	60.1
4	17:46	18:30	19:12	19:53	20:32	21:12	21:52
	-58.8	-59.4	-58.3	-55.6	-51.9	-47.6	-43.0

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	05/01	06/01	07/01	08/01	09/01	10/01	11/01
00:00	77.3	72.8	60.1	41.6	21.2	2.4	-13.2
01:00	67.6	77.6	74.1	62.3	45.4	26.9	9.2
02:00	37.8	62.8	74.7	72.5	62.0	47.2	30.6
03:00	-1.4	29.3	54.2	67.7	67.9	59.5	46.9
04:00	-36.3	-10.7	18.1	42.5	57.2	60.8	55.1
05:00	-54.4	-42.9	-20.6	5.6	29.0	44.9	51.7
06:00	-52.3	-55.8	-48.0	-29.5	-6.3	15.7	32.5
07:00	-37.8	-50.0	-54.5	-50.2	-35.8	-16.1	4.1
08:00	-14.0	-32.6	-45.3	-50.5	-48.6	-38.7	-22.9
09:00	14.7	-6.8	-25.4	-38.1	-44.1	-44.0	-38.4
10:00	43.1	22.7	1.6	-16.4	-29.2	-36.4	-38.1
11:00	66.2	50.5	30.8	10.7	-6.7	-19.9	-28.1
12:00	79.6	71.6	56.7	38.2	19.3	2.4	-10.9
13:00	80.1	82.1	74.6	60.9	43.8	26.3	10.2
14:00	58.4	77.2	81.2	74.7	62.5	47.4	31.3
15:00	19.9	49.6	69.6	76.4	71.7	61.6	48.5
16:00	-21.6	8.4	37.2	57.8	67.4	66.3	58.4
17:00	-51.2	-31.6	-4.4	22.5	43.6	55.6	58.6
18:00	-58.5	-56.1	-40.3	-16.9	8.0	28.8	43.0
19:00	-49.0	-57.8	-57.7	-46.3	-26.8	-4.7	15.7
20:00	-28.3	-45.1	-54.3	-55.6	-48.6	-33.4	-14.1
21:00	-0.2	-22.1	-38.8	-48.3	-50.7	-47.1	-36.2
22:00	29.6	6.9	-14.3	-30.6	-40.5	-44.4	-43.0
23:00	55.7	36.1	14.3	-5.8	-21.6	-32.3	-37.5
00:00	72.8	60.1	41.6	21.2	2.4	-13.2	-24.4



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

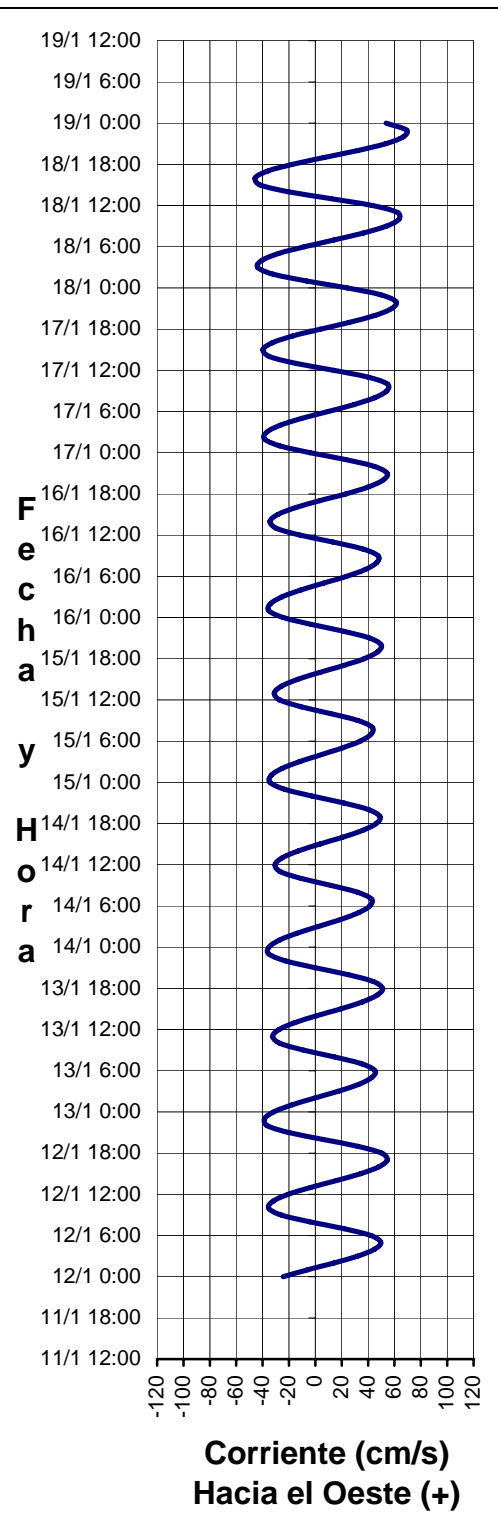
Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 12/Ene/2011

Hasta 18/Ene/2011

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	12/01	13/01	14/01	15/01	16/01	17/01	18/01
1	5:02	5:49	6:43	0:19	1:17	2:15	3:09
	49.6	45.5	43.1	-35.1	-35.9	-39.1	-44.0
2	10:05	10:52	11:46	7:42	8:42	9:38	10:30
	-35.5	-32.5	-30.8	43.9	48.3	55.9	64.8
3	17:15	18:01	18:53	12:46	13:47	14:46	15:38
	54.9	50.9	49.1	-31.4	-34.6	-40.0	-46.4
4	22:35	23:24		19:52	20:53	21:51	22:44
	-39.3	-36.5		50.2	54.6	61.4	69.7

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	12/01	13/01	14/01	15/01	16/01	17/01	18/01
00:00	-24.4	-31.6	-35.2	-34.4	-24.3	-4.0	24.2
01:00	-6.0	-18.1	-27.4	-33.5	-35.3	-27.1	-6.6
02:00	14.2	-0.7	-14.1	-25.4	-34.0	-38.6	-32.1
03:00	32.3	17.4	2.3	-12.1	-25.4	-36.7	-43.8
04:00	44.9	32.8	19.0	4.2	-11.1	-26.6	-40.5
05:00	49.6	42.8	32.8	20.6	6.3	-10.2	-28.0
06:00	42.3	45.2	41.2	34.0	23.6	9.5	-8.5
07:00	21.8	35.5	42.5	42.1	37.8	29.0	14.3
08:00	-4.2	14.9	31.9	43.2	46.5	44.8	36.4
09:00	-26.0	-8.9	11.7	32.4	47.6	54.1	53.9
10:00	-35.5	-26.9	-10.7	11.8	35.7	54.7	63.5
11:00	-32.0	-32.5	-26.7	-10.8	13.2	40.2	62.3
12:00	-20.6	-27.5	-30.6	-27.1	-11.7	13.9	43.2
13:00	-3.5	-15.5	-25.1	-31.2	-29.7	-14.6	11.8
14:00	16.1	1.1	-13.0	-25.6	-34.4	-34.8	-20.6
15:00	34.4	19.3	3.4	-13.2	-28.4	-39.8	-42.2
16:00	48.1	35.6	20.8	3.5	-14.9	-32.6	-45.7
17:00	54.6	46.8	36.0	21.4	3.3	-17.1	-36.3
18:00	50.4	50.9	46.1	36.9	22.9	3.8	-17.6
19:00	32.2	43.9	49.0	47.1	39.9	26.0	6.7
20:00	5.7	24.8	40.7	50.0	51.2	45.3	32.0
21:00	-20.1	-0.2	21.4	41.3	54.5	57.8	53.3
22:00	-36.5	-22.7	-2.6	21.4	44.9	61.2	66.6
23:00	-38.6	-35.3	-23.5	-3.1	23.0	49.6	69.0
00:00	-31.6	-35.2	-34.4	-24.3	-4.0	24.2	53.6



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 19/Ene/2011

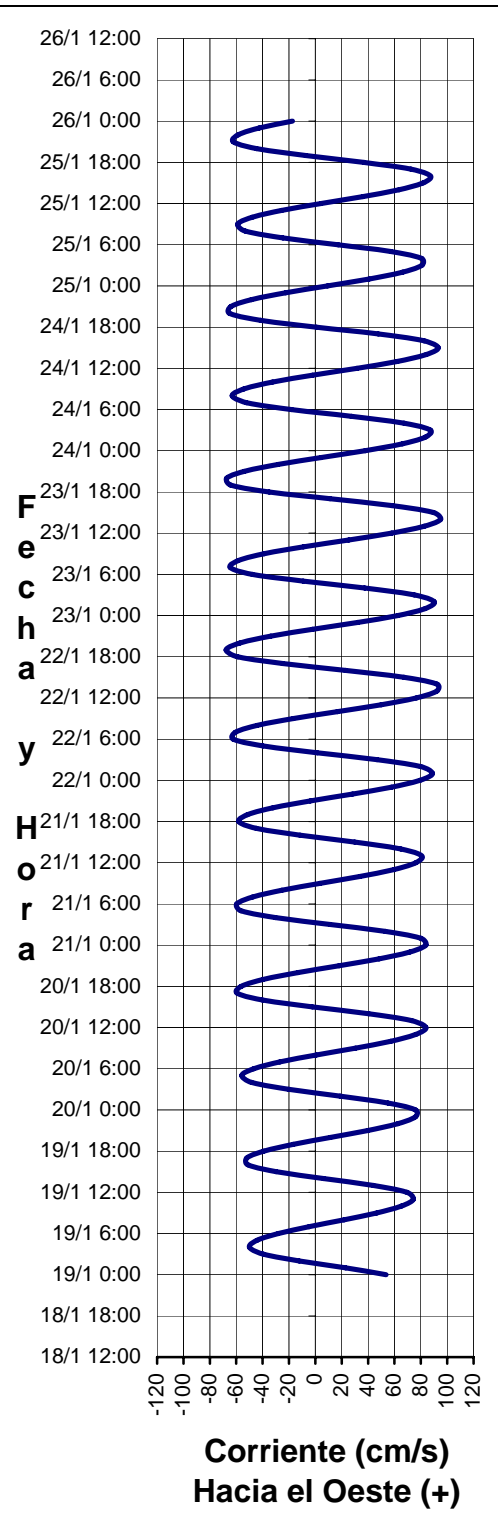
Hasta 25/Ene/2011

Máximos de corriente (cm/s) Hacia el Oeste-W positiva

	19/01	20/01	21/01	22/01	23/01	24/01	25/01
1	3:59	4:48	0:23	1:11	1:57	2:45	3:34
	-50.0	-56.0	84.9	89.1	90.1	88.0	83.1
2	11:19	12:05	5:34	6:20	7:06	7:53	8:41
	75.0	83.8	-60.9	-63.9	-64.7	-63.2	-59.6
3	16:28	17:15	12:51	13:35	14:20	15:07	15:55
	-53.8	-60.1	81.0	94.8	95.9	93.3	87.5
4	23:35		18:02	18:47	19:33	20:21	21:11
	78.1		-58.1	-68.0	-68.8	-66.9	-62.8

Corriente (cm/s) Hacia el Oeste-W positiva

Hora	19/01	20/01	21/01	22/01	23/01	24/01	25/01
00:00	53.6	76.0	83.8	79.3	62.7	37.7	9.3
01:00	22.9	55.1	80.0	88.8	83.2	66.0	40.8
02:00	-12.2	18.8	52.9	79.8	90.1	83.8	66.2
03:00	-39.7	-20.3	11.2	46.8	75.0	87.2	80.8
04:00	-50.0	-48.4	-30.2	1.5	37.3	67.2	80.6
05:00	-44.3	-55.8	-56.6	-39.8	-9.2	27.3	57.2
06:00	-28.3	-46.9	-59.7	-62.3	-47.8	-18.0	17.3
07:00	-4.9	-26.9	-47.8	-60.7	-64.5	-52.2	-24.6
08:00	21.7	0.6	-25.4	-44.2	-58.6	-63.1	-53.3
09:00	46.6	30.5	3.6	-16.8	-38.9	-54.2	-58.9
10:00	65.3	57.3	33.7	16.6	-9.1	-32.5	-48.0
11:00	74.4	76.3	59.5	49.8	25.3	-2.0	-25.5
12:00	69.5	83.8	76.3	76.7	57.9	31.7	4.3
13:00	43.9	73.1	80.7	92.2	82.6	62.3	35.9
14:00	6.4	40.5	64.8	92.4	95.0	84.1	63.4
15:00	-29.7	-2.4	29.8	67.1	89.5	93.1	81.7
16:00	-51.2	-40.1	-11.6	22.9	58.1	82.5	87.4
17:00	-51.9	-59.3	-44.9	-24.7	11.1	47.7	72.4
18:00	-39.2	-56.3	-58.1	-58.9	-35.0	0.9	36.8
19:00	-16.7	-39.8	-51.5	-67.7	-64.1	-41.7	-7.3
20:00	11.4	-13.4	-32.3	-57.2	-67.4	-65.0	-44.6
21:00	39.7	18.0	-3.9	-33.8	-53.8	-64.0	-62.3
22:00	62.6	48.3	28.1	-2.0	-28.4	-48.6	-58.6
23:00	75.9	71.7	57.7	32.4	4.2	-22.5	-42.5
00:00	76.0	83.8	79.3	62.7	37.7	9.3	-17.4



MINISTERIO DE OBRAS PÚBLICAS Y TRANSPORTES

DIVISIÓN MARÍTIMO PORTUARIA

DIRECCIÓN DE INFRAESTRUCTURA

Proyecciones de corrientes, Muelle para Cruceros, Puntarenas, Costa Rica

Desde 26/Ene/2011

Hasta 01/Feb/2011

Máximos de corriente (cm/s) Hacia el Oeste-W positiva							
	26/01	27/01	28/01	29/01	30/01	31/01	01/02
1	4:26	5:23	6:26	0:11	1:20	2:25	
	76.0	68.4	61.9	-47.0	-44.4	-44.7	
2	9:33	10:30	11:34	7:35	8:46	9:50	
	-54.5	-49.1	-44.4	58.8	59.6	63.7	
3	16:47	17:44	18:48	12:44	13:55	14:59	
	80.2	72.1	65.6	-42.1	-42.7	-45.7	
4	22:06	23:05		19:57	21:06	9:30	
	-57.5	-51.7		61.9	62.4	21.7	

Corriente (cm/s) Hacia el Oeste-W positiva							
Hora	26/01	27/01	28/01	29/01	30/01	31/01	01/02
00:00	-17.4	-37.6	-47.5	-46.6	-28.8	1.4	
01:00	12.2	-14.4	-33.9	-43.9	-43.3	-26.8	
02:00	40.8	12.4	-13.2	-32.2	-42.4	-43.0	
03:00	63.0	37.9	10.7	-13.7	-32.1	-43.1	
04:00	74.8	57.5	33.7	8.3	-14.9	-33.1	
05:00	72.1	67.6	51.5	29.8	6.4	-15.5	
06:00	48.1	64.3	60.9	47.1	27.8	6.5	
07:00	10.4	41.8	58.8	57.1	45.7	29.1	
08:00	-27.1	7.7	39.5	57.2	56.8	48.1	
09:00	-50.8	-25.7	9.1	41.3	59.0	60.4	
10:00	-53.2	-46.3	-21.5	13.5	45.8	63.5	
11:00	-41.6	-47.7	-41.1	-16.2	19.1	50.5	
12:00	-19.9	-36.7	-43.4	-37.0	-11.4	22.6	
13:00	7.9	-16.9	-34.2	-41.8	-34.8	-10.2	
14:00	36.5	8.3	-16.6	-34.5	-42.6	-36.0	
15:00	60.9	34.0	6.0	-19.0	-36.9	0.0	
16:00	76.3	55.6	29.5	2.0	-22.4	0.0	
17:00	79.7	69.0	49.5	24.4	-1.8	0.0	
18:00	63.4	71.4	62.2	44.1	21.0	0.0	
19:00	29.4	56.0	65.2	57.4	41.8	0.0	
20:00	-10.7	25.2	52.5	61.9	56.5	0.0	
21:00	-43.3	-10.5	25.5	52.4	62.4	0.0	
22:00	-57.4	-39.4	-6.9	28.5	55.1	0.0	
23:00	-52.9	-51.6	-33.9	-2.0	32.2	0.0	
00:00	-37.6	-47.5	-46.6	-28.8	1.4	0.0	

