



ORGANISMO NACIONAL DE SANIDAD PESQUERA

SUB DIRECCIÓN DE SUPERVISIÓN ACUÍCOLA

Concesiones de Cultivo de *Argopecten purpuratus* "concha de abanico"

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 017 Culebras, 011 Bahía Samanco, 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (Nº cel/L)

1ra Semana



Semana: 02 al 08 de agosto de 2015

Fechas: 06, 07 y 08 de agosto de 2015

ZONAS	002 GUAYNUNA															004 ISLA TORTUGAS			009 SALINAS			010 NONURA								
ESTACION	01-A-GUA**			01-B-GUA**			01-C-GUA**			02-D-GUA**			02-E-GUA**			01-A-TOR			01-A-SAL**			01-A-NON*			01-B-NON*			01-C-NON*		
PROFUNDIDAD (m)	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	....	....	....	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15
TEMPERATURA (°C)	17.3	17.0	16.7	16.9	16.6	16.4	16.9	16.5	16.4	19.0	18.3	18.1	18.7	17.7	17.5	....	....	....	19.1	18.9	18.8	19.5	19.4	19.2	19.7	19.6	19.4	19.8	19.2	19.3
DIATOMEAS																														
Grupo <i>Pseudo-nitzschia delicatissima</i>	6800	4880	1800	5600	1200	520	1840	400	840	2360	1200	680	3080	800	320	S/M	S/M	S/M	480	880	480	720	960	1000	3080	1600	3200	3320	2640	2160
Grupo <i>Pseudo-nitzschia seriata</i>	600	400	240	1800	400	200	80	0	0	3880	920	320	2400	600	200	S/M	S/M	S/M	360	240	0	0	0	0	0	480	0	0	0	0
DINOFLAGELADOS																														
<i>Alexandrium minutum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium monilatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium ostenfeldii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium peruvianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Azadinium spinosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cochlodinium polykrikoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis acuminata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis caudata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis rotundata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis tripos</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gonyaulax spinifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	40	0	40	0	0	0
<i>Karenia sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Karlodinium cf. veneficum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lingulodinium polyedrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum lima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum minimum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	280	0	0	560	240	200	760	320	280
<i>Protoceratium reticulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Protoperidinium crassipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
FITOFLAGELADOS																														
<i>Heterosigma akashiwo</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



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Concesiones de Cultivo de *Argopecten purpuratus* "concha de abanico"

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 017 Culebras, 011 Bahía Samanco, 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (Nº cel/L)

1ra Semana



Semana: 02 al 08 de agosto de 2015

Fechas: 05, 07 y 08 de agosto de 2015

ZONAS	017 CULEBRAS																		012 BAHIA DE SECHURA			
ESTACION	01-A-CUL			01-B-SAM**						01-C-SAM*			02-A-SAM**			02-B-SAM**			12-B-SECH**			13-A-SECH
PROFUNDIDAD (m)	....	....	....	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	....
TEMPERATURA (°C)	....	....	....	18.9	17.2	17.2	19.2	17.8	17.7	21.1	19.6	18.7	18.8	18.6	18.4	18.8	18.5	18.3	21.3	20.2	19.9	....
DIATOMEAS																						
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	0	160	160	80	0	0	0	240	0	80	400	0	160	880	1520	640	640	3520	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	960	2360	1160	120	2680	320	200	1360	2280	440	760	160	120	200	80	0	200	120	S/M
DINOFITOPHYTES																						
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	40	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	0	0	0	2680	0	0	400	120	0	280	0	0	0	0	0	0	40	0	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	200	0	0	0	80	0	0	0	0	120	80	0	0	0	40	0	0	0	S/M
FITOFITOPHYTES																						
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

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Análisis Cuantitativo de Fitoplancton (Nº cel/L)

2da Semana



Semana: 09 al 15 de agosto de 2015

Fechas: 13, 14 y 15 de agosto de 2015

ZONAS	002 GUAYNUMA															004 ISLA TORTUGAS	009 SALINAS			010 NONURA								
ESTACION	01-A-GUA**			01-B-GUA**			01-C-GUA**			02-D-GUA**			02-E-GUA**			01-A-TOR	01-A-SAL**			01-A-NON*			01-B-NON*			01-C-NON*		
PROFUNDIDAD (m)	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	....	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15
TEMPERATURA (°C)	18.1	17.4	16.5	17.6	17.1	16.8	17.6	17.1	16.7	18.3	18.2	18.0	18.9	18.5	18.3	....	18.1	17.9	17.0	18.0	17.8	17.5	18.2	17.5	16.9	18.3	17.3	16.9
DIATOMEAS																												
Grupo <i>Pseudo-nitzschia delicatissima</i>	3840	1360	1160	3440	1360	640	2400	1200	440	1200	1360	1120	600	400	320	S/M	1160	1480	720	160	360	600	720	480	560	480	240	760
Grupo <i>Pseudo-nitzschia seriata</i>	0	0	0	200	80	0	1120	600	200	200	120	40	800	720	480	S/M	80	80	40	0	640	0	0	0	0	0	0	0
DINOFLAGELADOS																												
<i>Alexandrium minutum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium monilatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium ostenfeldii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium peruvianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	40	0	0	0	0	0	0	0	0	0	0	0
<i>Azadinium spinosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cochlodinium polykrioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis acuminata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis caudata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis rotundata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	120	40	0	0	0	0	0	0	0	0	0
<i>Dinophysis tripos</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gonyaulax spinifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	40	0	0	0	0	0	0	0	0
<i>Karenia</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Karlodinium</i> cf. <i>veneficum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lingulodinium polyedrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum lima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum minimum</i>	0	0	0	0	0	0	0	0	0	0	0	0	120	40	0	S/M	80	0	0	0	0	0	0	0	0	0	0	0
<i>Protoceratium reticulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Protoperdinium crassipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	40	0	40	0	0	0	0	0	0	0
FITOFLAGELADOS																												
<i>Heterosigma akashiwo</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

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Análisis Cuantitativo de Fitoplancton (Nº cel/L)

2da Semana



Semana: 09 al 15 de agosto de 2015

Fechas: 12, 14 y 15 de agosto de 2015

ZONAS	017 CULEBRAS			011 BAHIA SAMANCO															012 BAHIA DE SECHURA			
ESTACION	01-A-CUL			01-B-SAM**						01-C-SAM*			02-A-SAM**			02-B-SAM**			12-B-SECH**			13-A-SECH
PROFUNDIDAD (m)	....	....	....	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	....
TEMPERATURA (°C)	....	....	....	20.4	18.7	18.1	19.52	18.99	16.85	19.4	18.6	17.7	19.3	17.8	17.6	19.4	17.5	17.0	18.7	18.5	18.3	....
DIATOMEAS																						
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	0	80	0	80	160	80	80	560	120	320	160	80	240	280	120	640	160	80	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	80	240	80	0	0	160	0	0	0	0	0	0	0	0	0	0	0	0	S/M
DINOFLAGELADOS																						
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	0	0	80	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	160	40	0	2040	720	120	3320	1560	80	360	80	0	1040	0	0	0	0	0	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	0	40	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	0	120	0	0	0	0	40	0	0	40	80	80	0	0	120	0	0	0	S/M
FITOFLAGELADOS																						
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



ORGANISMO NACIONAL DE SANIDAD PESQUERA

SUB DIRECCIÓN DE SUPERVISIÓN ACUÍCOLA

Concesiones de Cultivo de *Argopecten purpuratus* "concha de abanico"

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 017 Culebras, 011 Bahía Samanco, 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (Nº cel/L)

3ra Semana



Semana: 16 al 22 de agosto de 2015

Fechas: 18, 21 y 22 de agosto de 2015

ZONAS	002 GUAYNUNA															004 I. TORTUGAS			009 SALINAS			010 NONURA								
ESTACION	01-A-GUA**			01-B-GUA**			01-C-GUA**			02-D-GUA**			02-E-GUA**			01-A-TOR			01-A-SAL**			01-A-NON*			01-B-NON*			01-C-NON*		
PROFUNDIDAD (m)	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	....	....	....	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15
TEMPERATURA (°C)	18.1	17.6	17.6	17.5	17.5	17.4	17.5	17.5	17.3	18.3	17.8	17.6	18.6	17.7	17.4				18.1	16.3	16.2	17.9	17.7	17.7	18.3	17.9	17.6	18.0	17.5	17.4
DIATOMEAS																														
Grupo <i>Pseudo-nitzschia delicatissima</i>	1920	22480	10320	10640	12400	17440	11040	12720	2430	13840	13120	17920	20240	14080	24160	S/M	S/M	S/M	33840	7600	320	600	320	80	640	320	400	240	80	160
Grupo <i>Pseudo-nitzschia seriata</i>	4320	5680	6240	12240	18400	23280	1120	1520	1240	8160	9600	7920	10640	7360	5760	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
DINOFELAGELADOS																														
<i>Alexandrium minutum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium monilatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium ostenfeldii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium peruvianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium sp.</i>	80	40	40	120	16	160	120	80	40	200	120	160	40	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Azadinium spinosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cochlodinium polykrikoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis acuminata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis caudata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis rotundata</i>	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis tripos</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gonyaulax spinifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Karenia sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Karlodinium cf. veneficum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lingulodinium polyedrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum lima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum minimum</i>	240	160	40	520	320	200	160	120	40	400	280	200	480	0	200	S/M	S/M	S/M	0	0	0	0	0	0	40	40	80	0	40	0
<i>Protoceratium reticulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Protoperdinium crassipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
FITOFELAGELADOS																														
<i>Heterosigma akashiwo</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



ORGANISMO NACIONAL DE SANIDAD PESQUERA

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Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 017 Culebras, 011 Bahía Samanco, 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (Nº cel/L)

3ra Semana



Semana: 16 al 22 de agosto de 2015

Fechas: 21 y 22 de agosto de 2015

ZONAS	017 CULEBRAS			011 BAHIA SAMANCO												012 BAHIA DE SECHURA			
ESTACION	01-A-CUL			01-B-SAM**			01-C-SAM*			02-A-SAM**			02-B-SAM**			12-B-SECH**		13-A-SECH	
PROFUNDIDAD (m)	....	....	....	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	....
TEMPERATURA (°C)	....	....	....	18.1	17.6	17.2	20.6	18.9	17.7	18.6	18.3	18.2	18.4	18.2	18.1	21.0	19.0	19.1	....
DIATOMEAS																			
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	2360	1080	80	80	120	160	1760	2320	2760	3160	5280	6880	760	560	200	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	600	120	0	0	360	0	600	1160	520	800	880	3040	0	0	120	S/M
DINOFLAGELADOS																			
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium sp.</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	40	0	80	40	0	0	0	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Karenia sp.</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Karlodinium cf. veneficum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	400	1000	2800	336528	15360	960	0	120	0	1200	400	240	0	0	0	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	S/M
FITOFLAGELADOS																			
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



ORGANISMO NACIONAL DE SANIDAD PESQUERA

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Concesiones de Cultivo de *Argopecten purpuratus* "concha de abanico"

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 017 Culebras, 011 Bahía Samanco, 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (Nº cel/L)

4ta Semana



Semana: 23 al 29 de agosto de 2015

Fechas: 25 y 28 de agosto de 2015

ZONAS	002 GUAYNUNA															004 ISLA TORTUGAS	009 SALINAS			010 NONURA								
ESTACION	01-A-GUA**			01-B-GUA**			01-C-GUA**			02-D-GUA**			02-E-GUA**			01-A-TOR	01-A-SAL**			01-A-NON*			01-B-NON*			01-C-NON*		
PROFUNDIDAD (m)	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	....	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15
TEMPERATURA (°C)	17.9	16.8	16.4	17.4	16.9	16.5	17.5	17.4	17.2	16.6	15.9	15.5	16.0	15.9	15.7	....	18.6	17.2	16.7	18.9	18.6	18.4	19.1	18.6	18.5	18.8	18.4	18.3
DIATOMEAS																												
Grupo <i>Pseudo-nitzschia delicatissima</i>	2040	3040	1000	440	840	280	2000	1960	1760	3040	2040	1240	2080	680	560	S/M	6640	11840	4880	140	1400	2040	520	680	800	0	280	360
Grupo <i>Pseudo-nitzschia seriata</i>	4240	1280	240	560	400	120	5200	2280	2080	7120	3520	2200	5600	1560	1200	S/M	11920	7920	1160	160	0	0	0	320	0	80	160	0
DINOFLAGELADOS																												
<i>Alexandrium minutum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium monilatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium ostenfeldii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium peruvianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium sp.</i>	0	0	0	0	0	0	40	0	0	0	0	0	40	0	0	S/M	0	0	40	0	0	0	0	0	0	0	0	0
<i>Azadinium spinosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cochlodinium polykrikoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis acuminata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	40	0	0	0
<i>Dinophysis caudata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	40	0
<i>Dinophysis rotundata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	S/M	0	0	0	0	0	0	0	40	0	80	40	0
<i>Dinophysis tripos</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gonyaulax spinifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Karenia sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Karlodinium cf. veneficum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lingulodinium polyedrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum lima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum minimum</i>	0	0	0	0	0	0	1360	480	80	1200	760	0	880	240	40	S/M	80	80	0	0	40	0	120	0	0	49009	5280	280
<i>Protoceratium reticulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	40	0	0
<i>Protoperdinium crassipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	40	0	0	0	0	0	0	0	40	120	40
FITOFLAGELADOS																												
<i>Heterosigma akashiwo</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	0	0	0	0	0	0	0	0	0	0	0	0

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



ORGANISMO NACIONAL DE SANIDAD PESQUERA

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Análisis Cuantitativo de Fitoplancton (Nº cel/L)

4ta Semana



Semana: 23 al 29 de agosto de 2015

Fechas: 27 y 29 de agosto de 2015

ZONAS	017 CULEBRAS			011 BAHIA SAMANCO												012 BAHIA DE SECHURA			
ESTACION	01-A-CUL			01-B-SAM**			01-C-SAM*			02-A-SAM**			02-B-SAM**			12-B-SECH**			13-A-SECH
PROFUNDIDAD (m)	....	....	....	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	....
TEMPERATURA (°C)	....	....	....	18.6	17.0	16.2	21.2	19.9	18.0	20.1	19.1	18.1	19.9	18.5	17.9	18.64	17.88	17.65	....
DIATOMEAS																			
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	0	280	360	0	400	400	0	80	0	160	40	80	480	200	520	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	80	160	0	0	120	840	80	0	0	160	0	80	600	1240	360	S/M
DINOFLAGELADOS																			
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium sp.</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	0	40	0	0	0	0	0	0	0	40	0	0	0	0	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	80	40	0	0	0	0	40	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Karenia sp.</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Karlodinium cf. veneficum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	49009	5280	280	79231	2880	1680	14480	2200	360	10640	320	320	0	0	0	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	40	0	0	40	0	0	0	0	0	0	0	0	0	0	0	S/M
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	40	120	40	0	0	0	0	0	0	0	0	0	0	0	0	S/M
FITOFLAGELADOS																			
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



ORGANISMO NACIONAL DE SANIDAD PESQUERA

SUB DIRECCIÓN DE SUPERVISIÓN ACUÍCOLA

Concesiones de Cultivo de *Argopecten purpuratus* "concha de abanico"

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 017 Culebras, 011 Bahía Samanco, 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (Nº cel/L)

5ta Semana



Semana: 30 de agosto al 05 de setiembre de 2015

Fechas: 01, 03 y 04 de setiembre de 2015

ZONAS	002 GUAYNUNA															004 ISLA TORTUGAS			009 SALINAS			010 NONURA								
ESTACION	01-A-GUA**			01-B-GUA**			01-C-GUA**			02-D-GUA**			02-E-GUA**			01-A-TOR			01-A-SAL**			01-A-NON*			01-B-NON*			01-C-NON*		
PROFUNDIDAD (m)	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	....	....	....	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15
TEMPERATURA (°C)	18.3	17.2	16.5	18.0	17.0	16.5	17.9	16.8	16.4	20.3	18.1	17.9	19.1	18.5	18.1	....	....	....	18.7	17.3	16.2	18.6	18.1	18.2	18.9	17.8	17.6	18.7	18.0	17.8
DIATOMEAS																														
Grupo <i>Pseudo-nitzschia delicatissima</i>	2720	4680	1240	3560	4600	1000	2160	1480	80	3240	1720	840	2680	4480	680	S/M	S/M	S/M	1760	5520	1280	200	680	720	960	1200	800	1000	560	200
Grupo <i>Pseudo-nitzschia seriata</i>	6240	6680	720	8640	1880	480	6880	5480	1200	8640	3960	1760	9760	7680	3680	S/M	S/M	S/M	4160	6160	2160	0	0	0	0	0	0	120	0	0
DINOFLAGELADOS																														
<i>Alexandrium minutum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium monilatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium ostenfeldii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium peruvianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium</i> sp.	0	0	0	40	0	0	40	0	0	80	0	0	80	40	0	S/M	S/M	S/M	80	0	0	0	0	0	0	0	0	0	0	0
<i>Azadinium spinosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cochlodinium polykrikoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis acuminata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis caudata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis rotundata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	40	0	0	40	0	0	0	0	40	0
<i>Dinophysis tripos</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gonyaulax spinifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Karenia</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Karlodinium</i> cf. <i>veneficum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lingulodinium polyedrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum lima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum minimum</i>	840	360	160	880	160	40	400	240	120	480	120	0	1040	160	80	S/M	S/M	S/M	520	80	40	40	0	0	80	0	0	0	0	40
<i>Protoceratium reticulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Protoperidinium crassipes</i>	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	40	0	0	0	0	0	0	0	0	0
FITOFLAGELADOS																														
<i>Heterosigma akashiwo</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	480	560	640	720	1440	400	480	640	240

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

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Análisis Cuantitativo de Fitoplancton (Nº cel/L)

5ta Semana



Semana: 30 de agosto al 05 de setiembre de 2015

Fechas: 01, 03 y 05 de setiembre de 2015

ZONAS	017 CULEBRAS			011 BAHIA SAMANCO															012 BAHIA DE SECHURA			
ESTACION	01-A-CUL			01-B-SAM**						01-C-SAM*			02-A-SAM			02-B-SAM			12-B-SECH**			13-A-SECH
PROFUNDIDAD (m)	....	....	....	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	....	....	....	....	....	....	0-5	5-10	10-15	....
TEMPERATURA (°C)	....	....	....	19.8	16.3	16.1	20.1	17.3	16.8	21.2	19.0	17.7	....	....	....	....	....	....	20.9	19.5	18.8	....
DIATOMEAS																						
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	80	360	240	0	2560	1520	2280	3280	160	S/M	S/M	S/M	S/M	S/M	S/M	360	80	40	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	960	960	280	0	680	0	680	1480	80	S/M	S/M	S/M	S/M	S/M	S/M	160	0	200	S/M
DINOFLAGELADOS																						
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M
<i>Alexandrium sp.</i>	S/M	S/M	S/M	0	0	0	0	0	40	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	160	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	0	0	0	80	0	0	40	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	0	40	0	0	40	0	40	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M
<i>Karenia sp.</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M
<i>Karlodinium cf. veneficum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	23200	16800	3480	120889	1480	1320	12000	480	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	40	40	40	0	120	0	40	40	0	S/M	S/M	S/M	S/M	S/M	S/M	0	40	0	S/M
FITOFLAGELADOS																						
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

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