



ORGANISMO NACIONAL DE SANIDAD PESQUERA

SUB DIRECCIÓN DE SUPERVISIÓN ACUÍCOLA

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Sechura

Análisis Semicuantitativo de Fitoplancton / Abundancia Relativa (células/campo)

1ra Semana



Semana: 05 al 11 de julio de 2015

Fechas: 06, 08, 10 y 11 de julio de 2015

ZONAS	012 BAHIA DE SECHURA												
AREAS	SAN PABLO	SAN PEDRO	PLAYA CHUYILLACHI	CHUYILLACHI	MATACABALLO	CONSTANTE	LAS DELICIAS	PARACHIQUE	BARRANCOS	VICHAYO			PUERTO RICO
ESTACION	01-A-SECH	02-A-SECH	03-A-SECH	04-A-SECH	05-C-SECH	06-A-SECH*	07-B-SECH*	08-C-SECH*	09-A-SECH*	10-C-SECH*			11-A-SECH
PROFUNDIDAD (m)	....	....	....	....	....	0-8	0-6	0-9	0-7	0-7	0-7	0-7	....
TEMPERATURA (°C)	....	....	....	....	....	20.5	20.6	20.8	20.5	20.9	21.5	19.8	....
DIATOMEAS													
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	1	0	0	0	1	1	0	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	1	1	0	S/M
DINOFLAGELADOS													
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	1	0	0	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	1	1	1	1	1	1	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	0	0	1	1	1	1	1	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	1	0	0	1	1	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	S/M
<i>Protoberidinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	1	1	1	1	1	1	1	S/M
FITOFLAGELADOS													
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	S/M

S/M: Sin Monitoreo

Escala relativa de abundancia: Ausente:0, Presente:1, Escaso:2, Abundante:3, Muy Abundante:4

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



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Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Sechura

Análisis Semicuantitativo de Fitoplancton / Abundancia Relativa (células/campo)

2da Semana



Semana: 12 al 18 de julio de 2015

Fechas: 17 y 18 de julio de 2015

ZONAS	012 BAHIA DE SECHURA											
AREAS	SAN PABLO	SAN PEDRO	PLAYA CHUYILLACHI	CHUYILLACHI	MATACABALLO	CONSTANTE	LAS DELICIAS	PARACHIQUE	BARRANCOS	VICHAYO	PUERTO RICO	
ESTACION	01-A-SECH	02-A-SECH	03-A-SECH	04-A-SECH	05-C-SECH	06-A-SECH*	07-B-SECH*	08-C-SECH*	09-A-SECH*	10-C-SECH*	11-A-SECH	
PROFUNDIDAD (m)	....	....	....	....	....	0-8	0-8	0-8	0-7	0-6	....	....
TEMPERATURA (°C)	....	....	....	....	....	20.1	20.0	20.6	20.2	19.8	....	....
DIATOMEAS												
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	1	1	1	1	1	S/M	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	1	0	0	0	0	S/M	S/M
DINOFLAGELADOS												
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	0	1	1	1	1	S/M	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	0	0	1	1	0	S/M	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	0	1	1	1	0	S/M	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M
<i>Karlodinium</i> cf. <i>veneticum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	1	1	1	1	1	S/M	S/M
FITOFLAGELADOS												
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M

S/M: Sin Monitoreo

Escala relativa de abundancia: Ausente:0, Presente:1, Escaso:2, Abundante:3, Muy Abundante:4

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



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Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Sechura

Análisis Semicuantitativo de Fitoplancton / Abundancia Relativa (células/campo)

3ra Semana



Semana: 19 al 25 de julio de 2015

Fechas: 24 y 25 de julio de 2015

ZONAS	012 BAHIA DE SECHURA										
AREAS	SAN PABLO	SAN PEDRO	PLAYA CHUYILLACHI	CHUYILLACHI	MATACABALLO	CONSTANTE	LAS DELICIAS	PARACHIQUE	BARRANCOS	VICHAYO	PUERTO RICO
ESTACION	01-A-SECH	02-A-SECH	03-A-SECH	04-A-SECH	05-C-SECH	06-A-SECH*	07-B-SECH*	08-C-SECH*	09-A-SECH*	10-C-SECH	11-A-SECH
PROFUNDIDAD (m)	....	....	....	....	....	0-8	0-8	0-9	0-8	0-8	....
TEMPERATURA (°C)	....	....	....	....	....	20.0	20.1	20.5	19.9	19.6	....
DIATOMEAS											
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	1	1	1	1	1	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
DINOFLAGELADOS											
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	1	0	0	0	1	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	0	0	1	1	1	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
FITOFLAGELADOS											
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M

S/M: Sin Monitoreo

Escala relativa de abundancia: Ausente:0, Presente:1, Escaso:2, Abundante:3, Muy Abundante:4

Fuente: * Entidad de Apoyo CERPER S.A.

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Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Sechura

Análisis Semicuantitativo de Fitoplancton / Abundancia Relativa (células/campo)

4ta Semana



Semana: 26 de julio al 01 de agosto de 2015

Fechas: 31 de julio y 01 de agosto de 2015

ZONAS	012 BAHIA DE SECHURA										
AREAS	SAN PABLO	SAN PEDRO	PLAYA CHUYILLACHI	CHUYILLACHI	MATACABALLO	CONSTANTE	LAS DELICIAS	PARACHIQUE	BARRANCOS	VICHAYO	PUERTO RICO
ESTACION	01-A-SECH	02-A-SECH	03-A-SECH	04-A-SECH	05-C-SECH	06-A-SECH*	07-B-SECH*	08-C-SECH*	09-A-SECH*	10-C-SECH*	11-A-SECH
PROFUNDIDAD (m)	....	....	....	....	....	0-8	0-8	0-9	0-7	0-7	....
TEMPERATURA (°C)	....	....	....	....	....	20.3	19.1	19.7	20.1	19.3	....
DIATOMEAS											
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	1	1	1	1	1	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
DINOFLAGELADOS											
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	1	1	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	0	1	1	1	1	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	1	1	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	0	1	0	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	0	0	1	1	1	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	0	1	1	0	0	S/M
FITOFLAGELADOS											
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M

S/M: Sin Monitoreo

Escala relativa de abundancia: Ausente:0, Presente:1, Escaso:2, Abundante:3, Muy Abundante:4

Fuente: * Entidad de Apoyo CERPER S.A.

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