



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: 04 al 10 de octubre de 2015

Fechas: 09 y 10 de octubre 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-B-SECH**	06-A-SECH**	07-B-SECH*	08-C-SECH*	09-A-SECH*	10-C-SECH*	11-A-SECH*
PROFUNDIDAD (m)	....	....	....	....	0-6	0-6	0-8	0-9	0-7	0-6	0-6
TEMPERATURA (°C)	....	....	....	....	21.4	20.7	20.6	21.0	20.7	20.5	21.2
DIATOMEAS											
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	0	1	1	1	1	1	1
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	1	0	1	1	0	1	0
DINOFAGELADOS											
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	0	1	1	1	1	1	1
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	0	1	1	1	0	1	0
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	0	0	1	1	0	1	1
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Karlodinium</i> cf. <i>veneticum</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	S/M	0	0	0	1	1	0	0
FITOFAGELADOS											
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0

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

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

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Sechura

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

2da Semana



Semana: 11 al 17 de octubre de 2015

Fechas: 16 y 17 de octubre 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)	....	....	....	....	0-25	0-6	0-8	0-9	0-7	0-6	0-6
TEMPERATURA (°C)	....	....	....	....	18.8	17.5	19.1	20.5	19.1	18.9	19.3
DIATOMEAS											
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	1	1	1	1	1	1	1
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	1	1	1	1	1	1	1
DINOFLAGELADOS											
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	1	0	0	0	0	0	0
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	0	0	1	1	1	0	1
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	0	0	1	0	0	1	1
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	0	0	1	0	0	1	1
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	0	0	1	1	1	1	1
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	0	0	1	1	1	1	1
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0
FITOFAGELADOS											
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0

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

S/M: Sin Monitoreo

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: 18 al 24 de octubre de 2015

Fechas: 21, 23 y 24 de octubre 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-B-SECH**		06-A-SECH	07-B-SECH*	08-C-SECH*	09-A-SECH*	10-C-SECH*	11-A-SECH*
PROFUNDIDAD (m)	....	....	....	....	0-6	0-6	....	0-8	0-10	0-8	0-7	0-6
TEMPERATURA (°C)	....	....	....	....	20.3	18.7	....	18.3	20.5	19.1	18.4	19.3
DIATOMEAS												
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	1	0	S/M	1	1	1	1	1
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	1	1	S/M	1	1	0	1	1
DINOFLAGELADOS												
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	1	0	S/M	0	0	0	0	0
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	0	0	S/M	1	1	1	0	0
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	0	0	S/M	0	0	1	0	0
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	0	1	S/M	1	1	1	1	1
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	0	0	S/M	1	0	0	0	0
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	0	0	S/M	0	1	0	1	0
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	0	1	S/M	1	1	1	0	0
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	S/M	0	0	S/M	1	0	1	1	1
FITOFLAGELADOS												
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	0		S/M	0	0	0	0	0

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

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



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Departamento de Piura: Zona 012 Sechura

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

4ta Semana



Semana: 25 al 31 de octubre de 2015

Fechas: 30 y 31 de octubre 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-B-SECH**	06-A-SECH	07-B-SECH*	08-C-SECH*	09-A-SECH*	10-C-SECH*	11-A-SECH*
PROFUNDIDAD (m)	....	....	....	....	0-6	....	0-8	0-9	0-6	0-7	0-6
TEMPERATURA (°C)	....	....	....	....	21.0	....	20.0	20.4	20.1	19.6	19.90
DIATOMEAS											
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	0	S/M	1	1	0	1	1
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	0	S/M	1	1	0	1	1
DINOFLAGELADOS											
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	0	S/M	1	1	0	1	1
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	0	S/M	1	1	0	1	1
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	0	S/M	1	1	0	1	1
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	0	S/M	0	1	0	1	0
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	0	S/M	1	1	0	1	1
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	1	S/M	1	1	0	1	1
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	S/M	0	S/M	0	1	0	1	0
FITOFLAGELADOS											
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0

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

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

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