



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: 03 al 09 de mayo de 2015

Fecha: 09 de mayo 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)	....	....	....	....	....	....	0-9	0-8	0-8	....	....
TEMPERATURA (°C)	....	....	....	....	....	....	21.5	21.5	21.8	....	....
DIATOMEAS											
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	1	1	S/M	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
DINOFLAGELADOS											
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	1	1	S/M	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	1	1	S/M	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	1	1	S/M	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	1	S/M	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	1	1	S/M	S/M
FITOFLAGELADOS											
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	S/M	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.



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: 10 al 16 de mayo de 2015

Fecha: 16 de mayo 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	0-9	0-7	....	....	....
TEMPERATURA (°C)	....	....	....	....	....	....	23.2	23.4	23.0	....	....	....
DIATOMEAS												
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	1	1	S/M	S/M	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	1	1	S/M	S/M	S/M
DINOFLAGELADOS												
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Alexandrium sp.</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	0	0	S/M	S/M	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Karenia sp.</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Karlodinium cf. veneficum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
FITOFLAGELADOS												
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	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.



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)

3ra Semana



Semana: 17 al 23 de mayo de 2015

Fecha: 23 de mayo 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)	....	....	....	....	....	....	0-9	0-8	0-8	....	....	....
TEMPERATURA (°C)	....	....	....	....	....	....	22.48	21.36	21.47	....	....	....
DIATOMEAS												
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	1	1	S/M	S/M	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	1	1	S/M	S/M	S/M
DINOFAGELADOS												
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	1	1	S/M	S/M	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	1	0	S/M	S/M	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	1	S/M	S/M	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	1	1	S/M	S/M	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	1	1	S/M	S/M	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M
FITOFAGELADOS												
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	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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SUB DIRECCIÓN DE SUPERVISIÓN ACUÍCOLA

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Sechura

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

4ta Semana



Semana: 24 al 30 de mayo de 2015

Fecha: 30 de mayo 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)	....	....	....	....	....	....	0-6	0-9	0-7	....	....
TEMPERATURA (°C)	....	....	....	....	....	....	22.8	23.0	22.6	....	....
DIATOMEAS											
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	1	1	S/M	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	1	1	S/M	S/M
DINOFLAGELADOS											
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	0	1	S/M	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
FITOFITAGELADOS											
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	S/M	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.



ORGANISMO NACIONAL DE SANIDAD PESCADERA

SUB DIRECCIÓN DE SUPERVISIÓN ACUÍCOLA

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Sechura

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

5ta Semana



Semana: 31 de mayo al 06 de junio de 2015

Fecha: 06 de junio 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)	....	....	....	....	....	....	0-9	0-9	0-7	....	....
TEMPERATURA (°C)	....	....	....	....	....	....	22.7	23.0	21.8	....	....
DIATOMEAS											
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	1	1	S/M	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	1	1	S/M	S/M
DINOFLAGELADOS											
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	1	1	S/M	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	0	0	S/M	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	0	1	S/M	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	S/M	1	1	1	S/M	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	S/M
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	S/M	0	1	0	S/M	S/M
FITOFLAGELADOS											
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	S/M	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.