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Región de Atacama

Estación Bahía Inglesa, Caldera



Laboratorio de Macroalgas, Puerto Montt



Est. Experimental de Botánica Marina Maullin

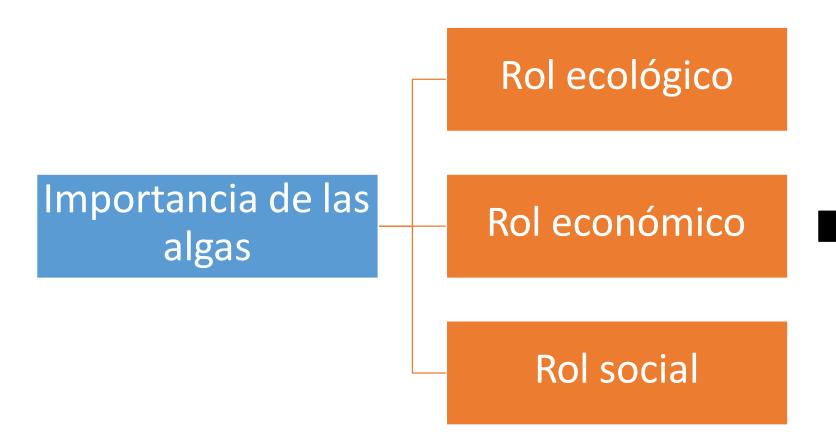
Planta Lechahua, Ancud



Estación Yaldad, Quellón.



Región de Los Lagos



- Gigartina Skottsbergii
- Sarcothalia crispata
- Gracilaria chilensis
- Durvillaea antartica
- Porphyra spp.
- Macrocystis spp.
- Lessonia spp.

Uso de las algas

Industria alimenticia

Alimento Humano

- Fresco
- Preparado
- Productos funcionales

Alimento para animales

- Pellet
- Harinas

Industria ficoloides

Carrageninas

Agar

Alginatos

Industria papelera

Celulosa

Papel

Industria agrícola

fertilizantes

Producción de energía

Biocombustible
Biogases
Bioalcoholes

Industria cosmetológica

Pigmentos Colorantes

Industria Farmacéutica

Fuentes de proteína
Antioxidantes
Anticoagulantes
Entre otros





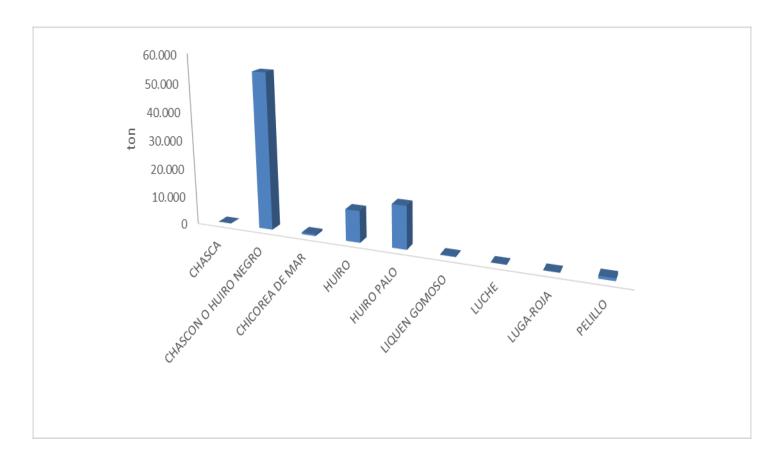








Extracción de macroalgas en Atacama



	ton
CHASCA	2
CHASCON O HUIRO NEGRO	54.848
CHICOREA DE MAR	645
HUIRO	11.062
HUIRO PALO	14.976
LIQUEN GOMOSO	239
LUCHE	5
LUGA-ROJA	54
PELILLO	968

Que debemos saber para cultivar, manejar y repoblar?..

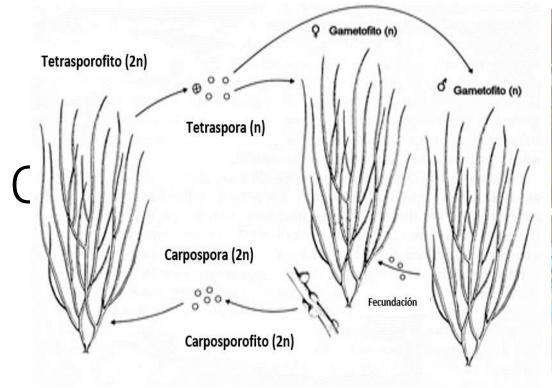
Biología de la especie

Sistemas de cultivo

Formas de repoblamiento

Manejo

Cultivo de *Gracilaria chilensis* a partir de esporas







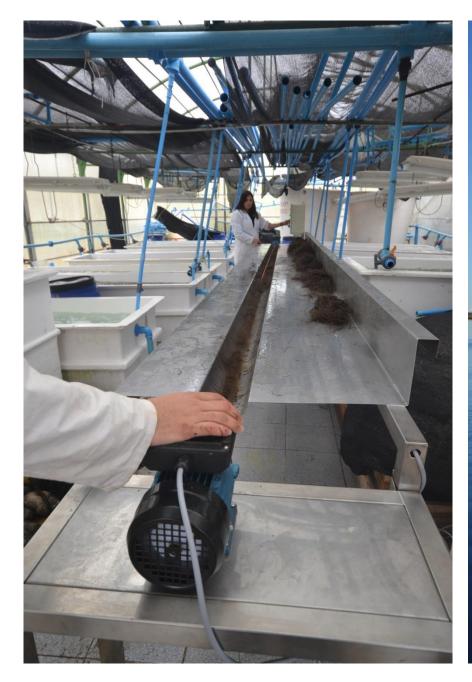




















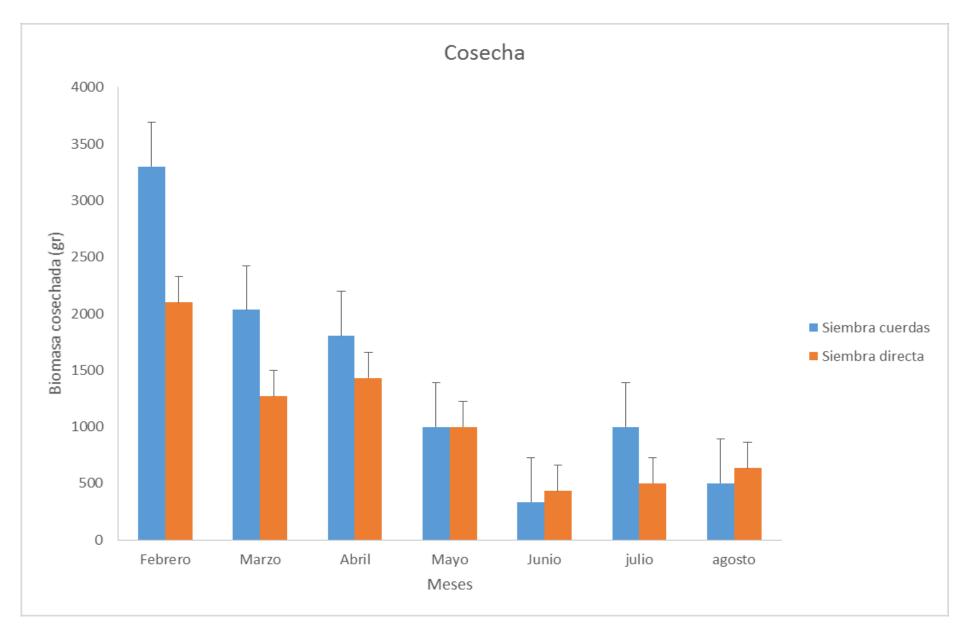






Intermareal





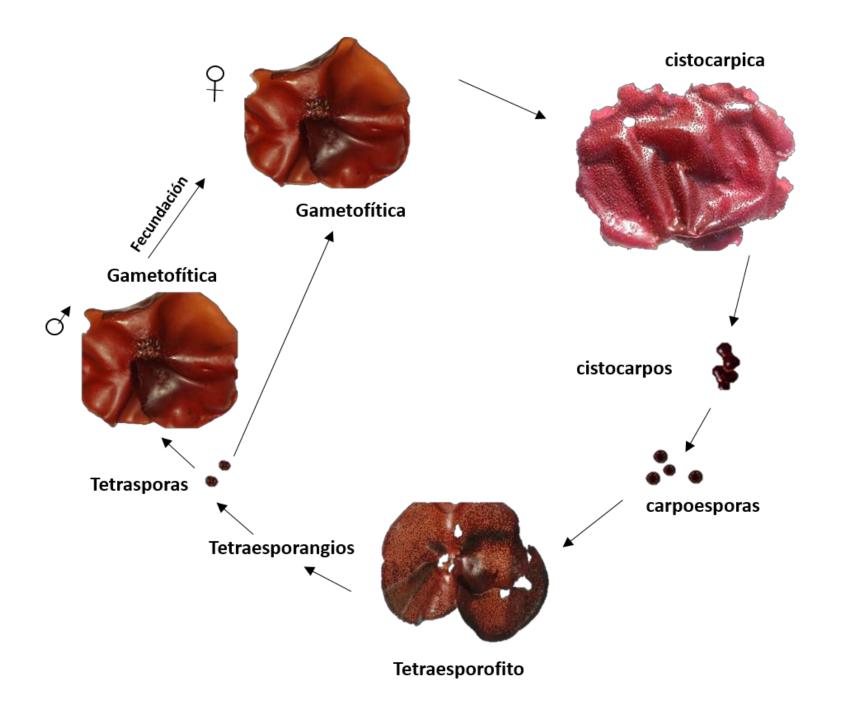
Promedio de cuerdas de 5 metros.

Siembra: Enero (Biomasa inicial: 600 gr x cuerda)

Luga Roja

Cultivo vía esporas





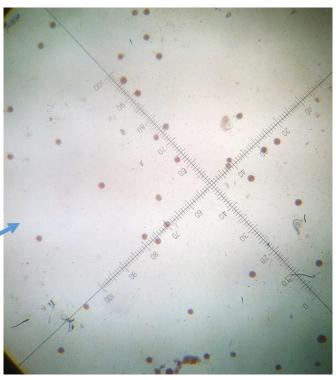






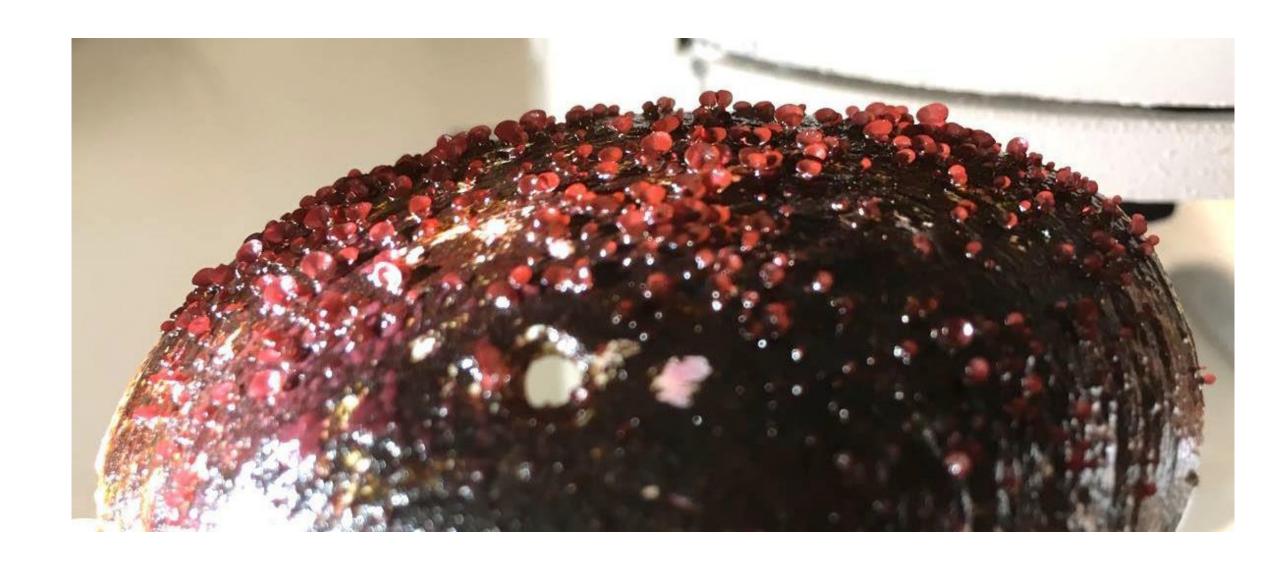








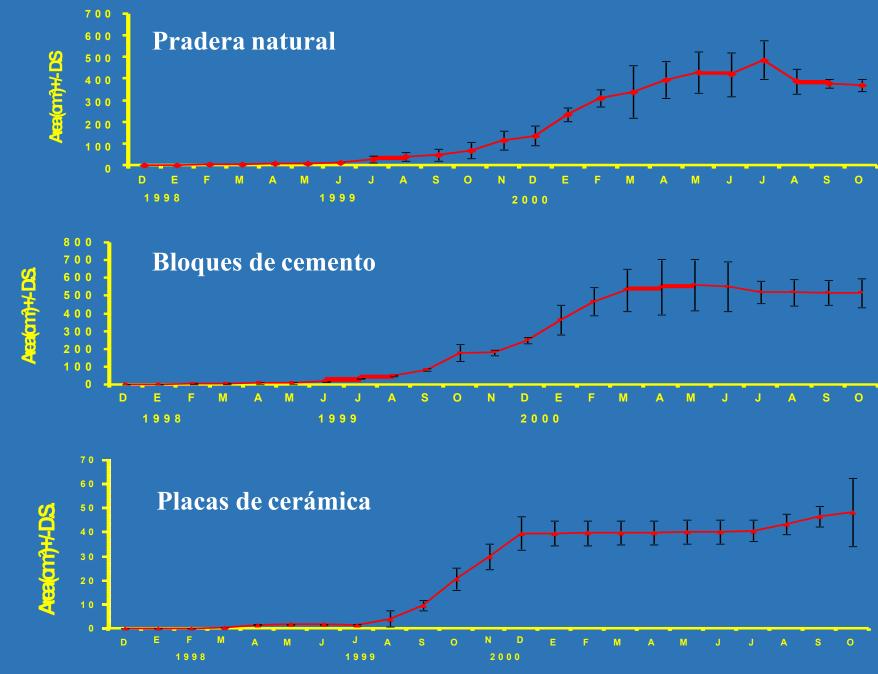




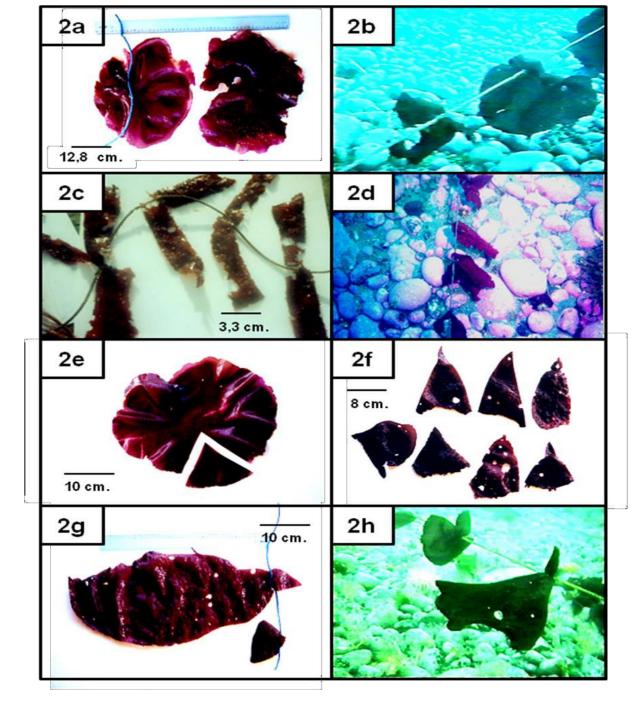








Cultivo suspendido a través de fragmentación de talos

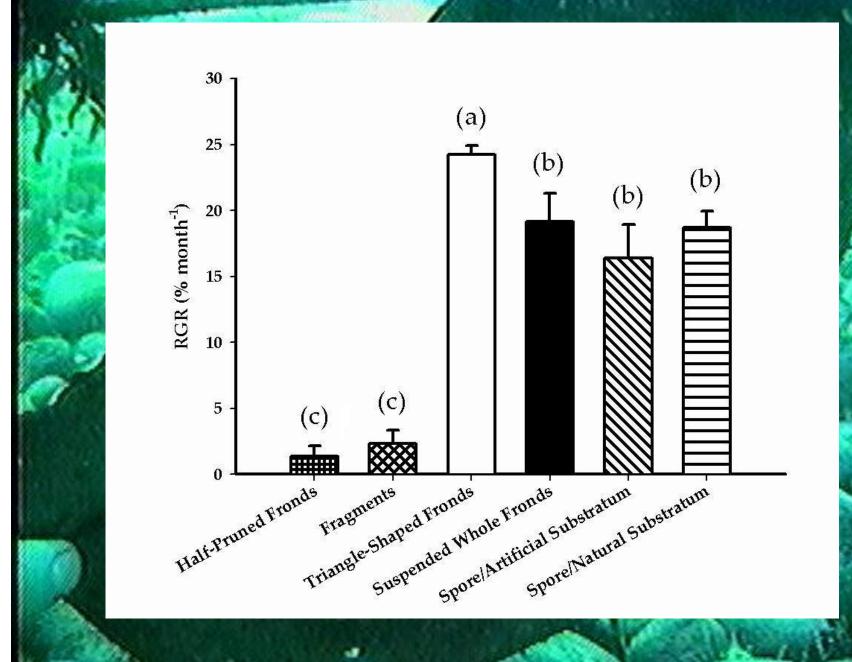






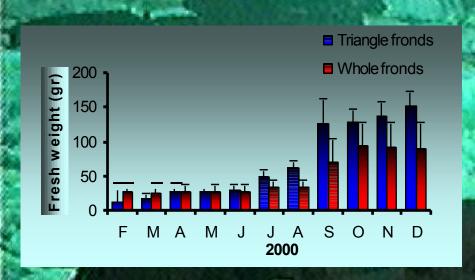


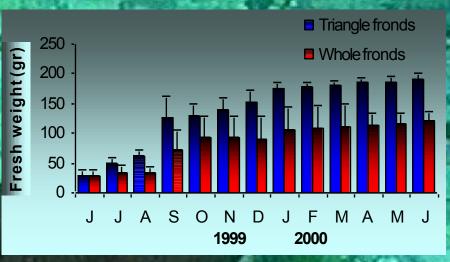


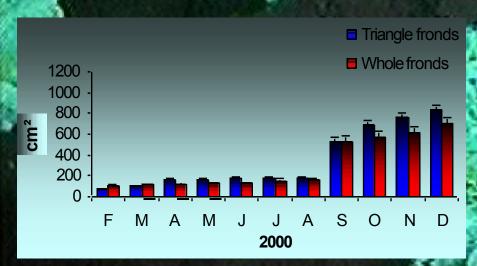


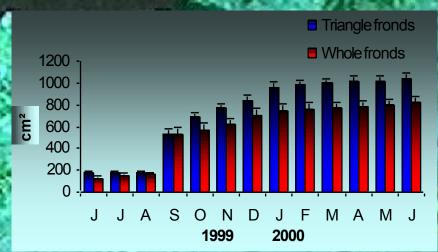
Inoculation Summer

Inoculation Winter





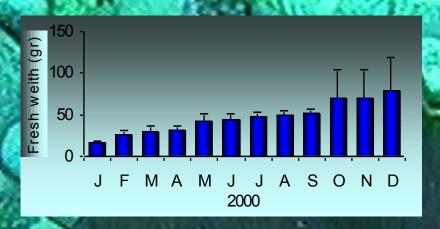


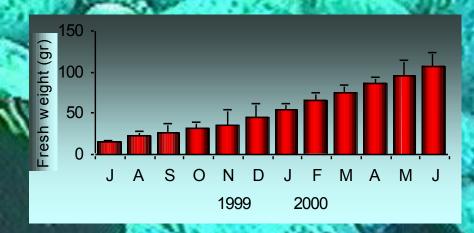


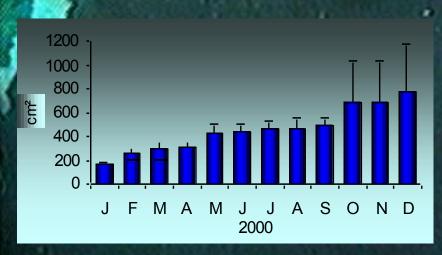
Effect of Pruning Season

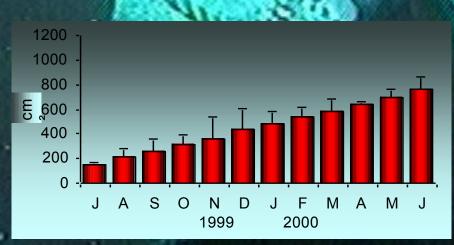
Summer

Winter

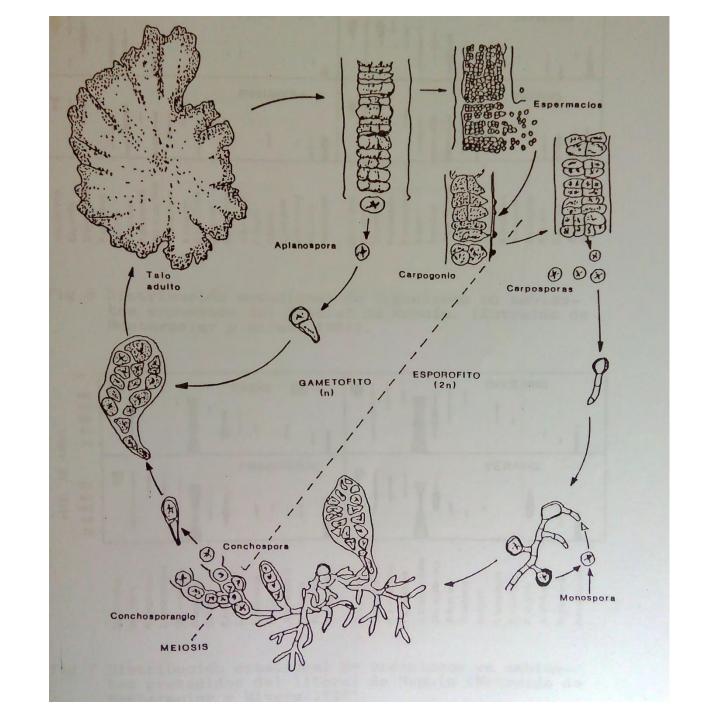








Cultivo de luche

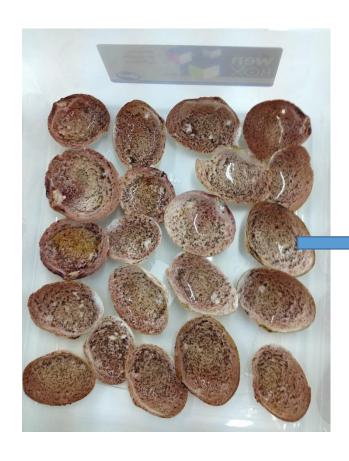


Propagación de Filamentos Conchocelis



Preparación de valvas y siembra de filamentos conchocelis







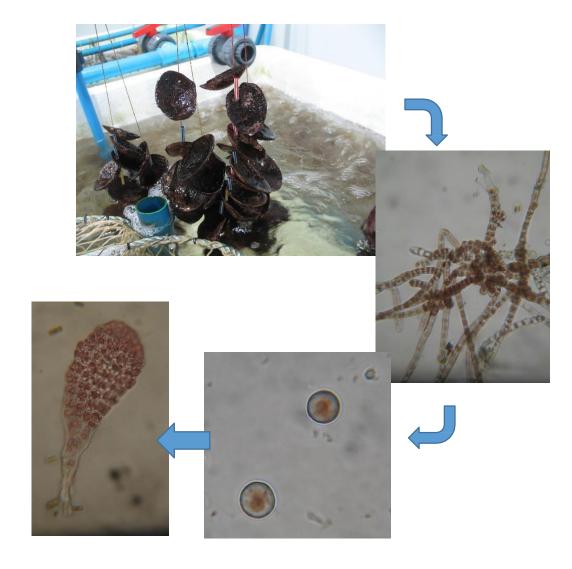






Inoculación de Redes

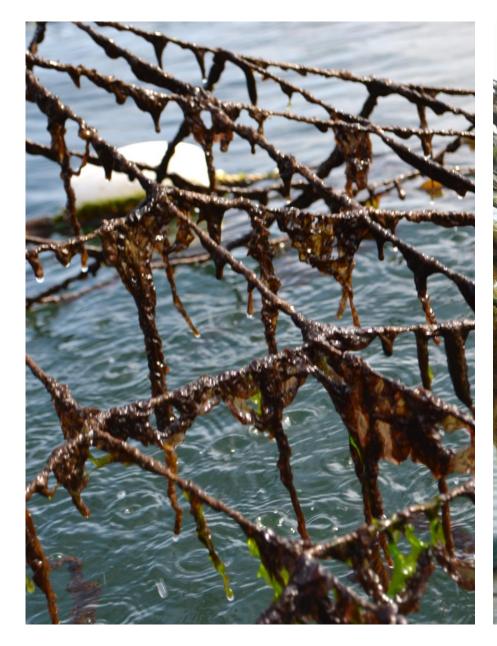




Sistema de cultivo de levante en Maullin (Rio Cariquilda, Concesión UaCh).







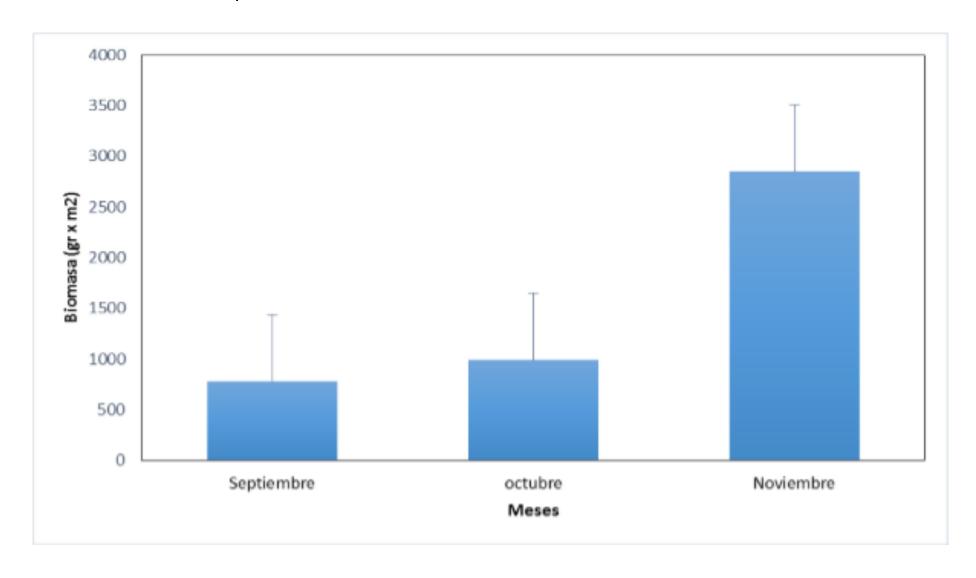




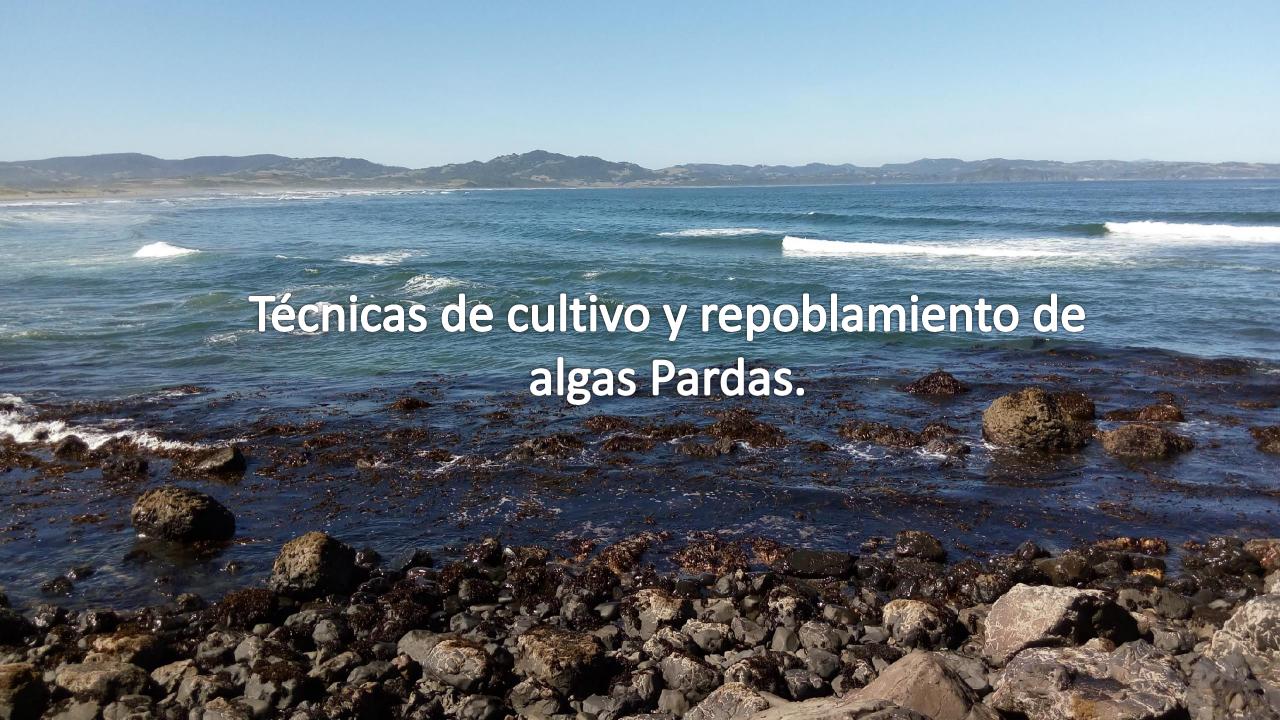




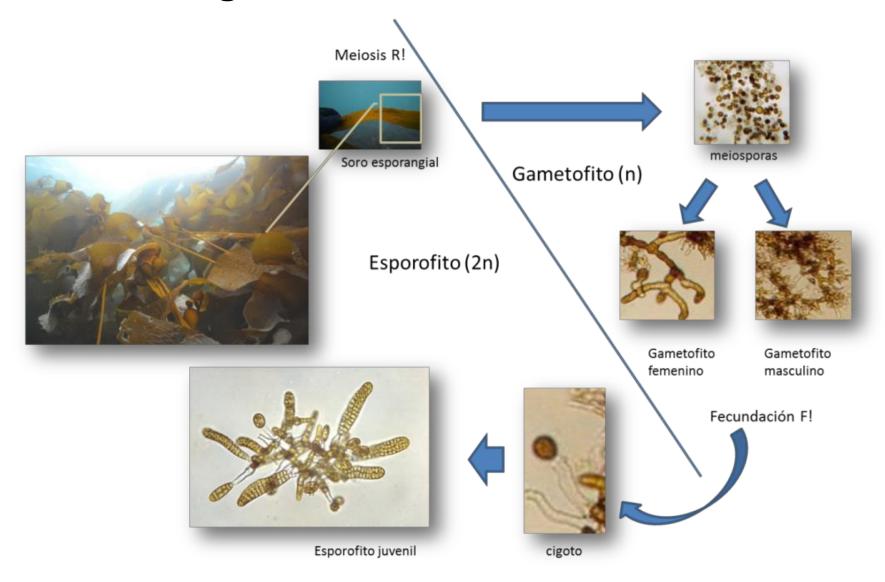
Biomasa cosechada en la temporada de cultivo







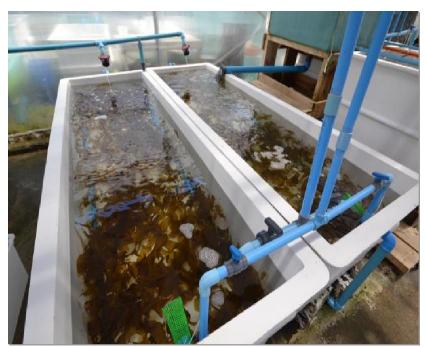
Producción de Algas Pardas:

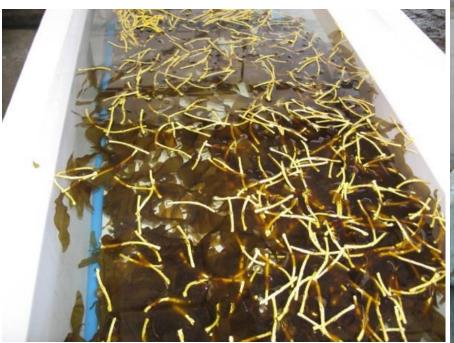














Manual del cultivo de alga parda Macrocystis pyrifera (huiro), Chile. Proyecto FONDEF D00I1144. Universidad Austral de Chile, 38 pp. ISBN:149.733. MMI. Año 2005













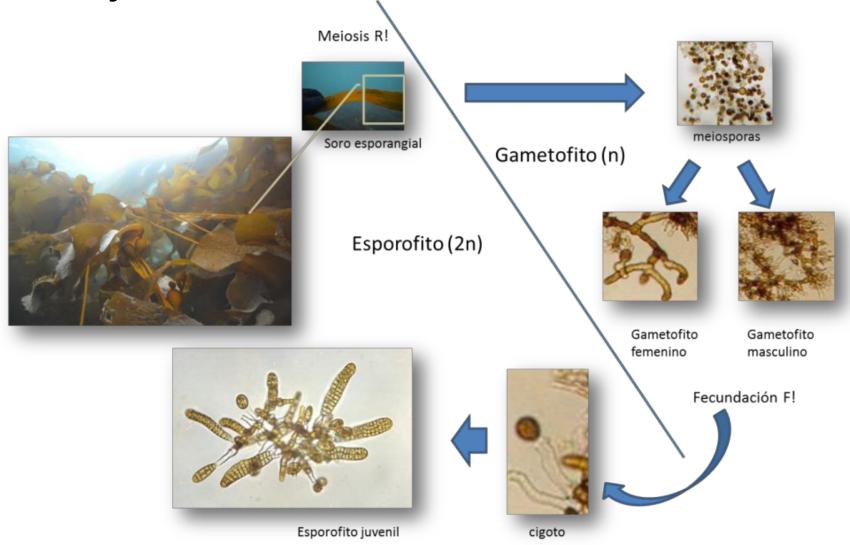


ZONAS NO APTAS PARA CULTIVOS

Piure blanco



Fases mejoradas



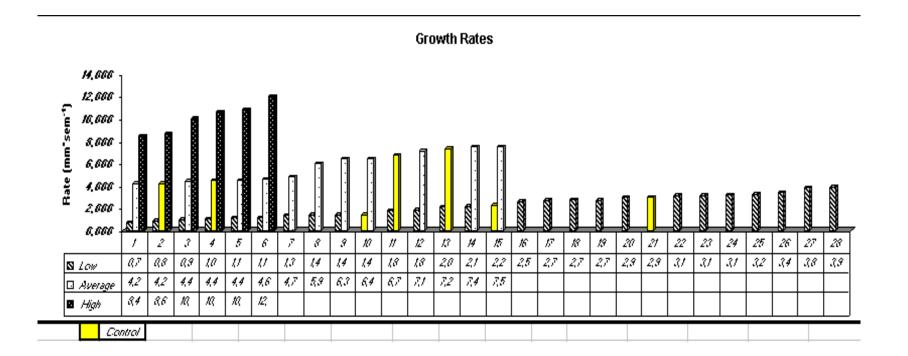
Banco de gametofitos.



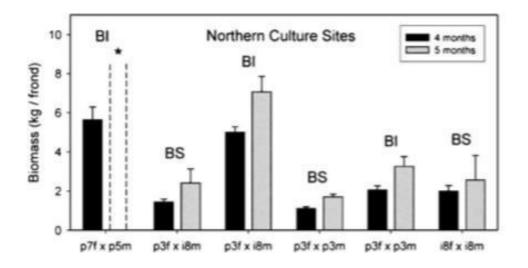


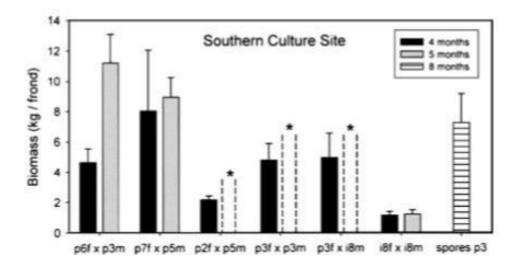


Variedades mejoradas





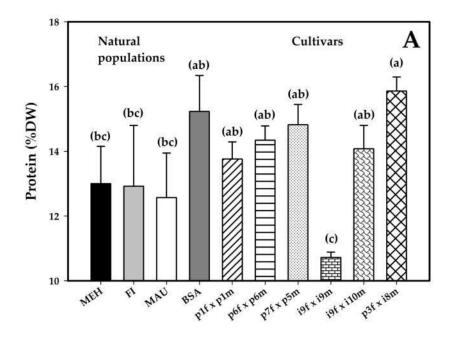


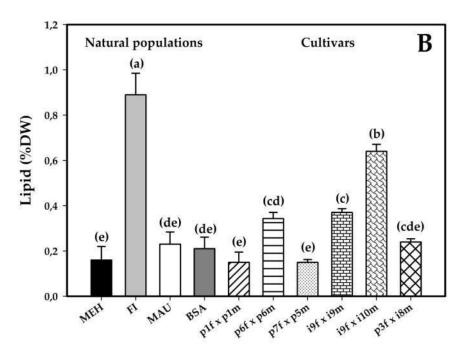




Westermeier et al. (2010)

Composición química



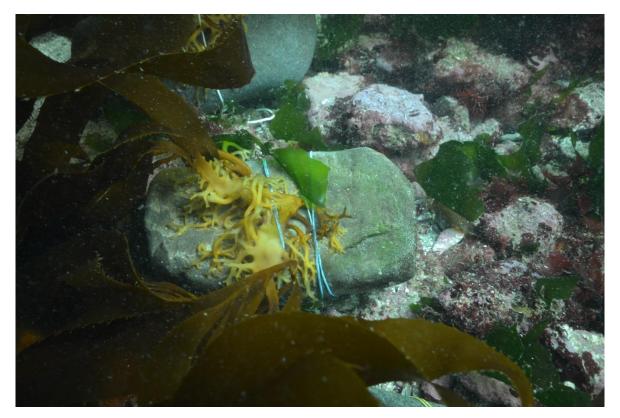


Westermeier et al, 2012



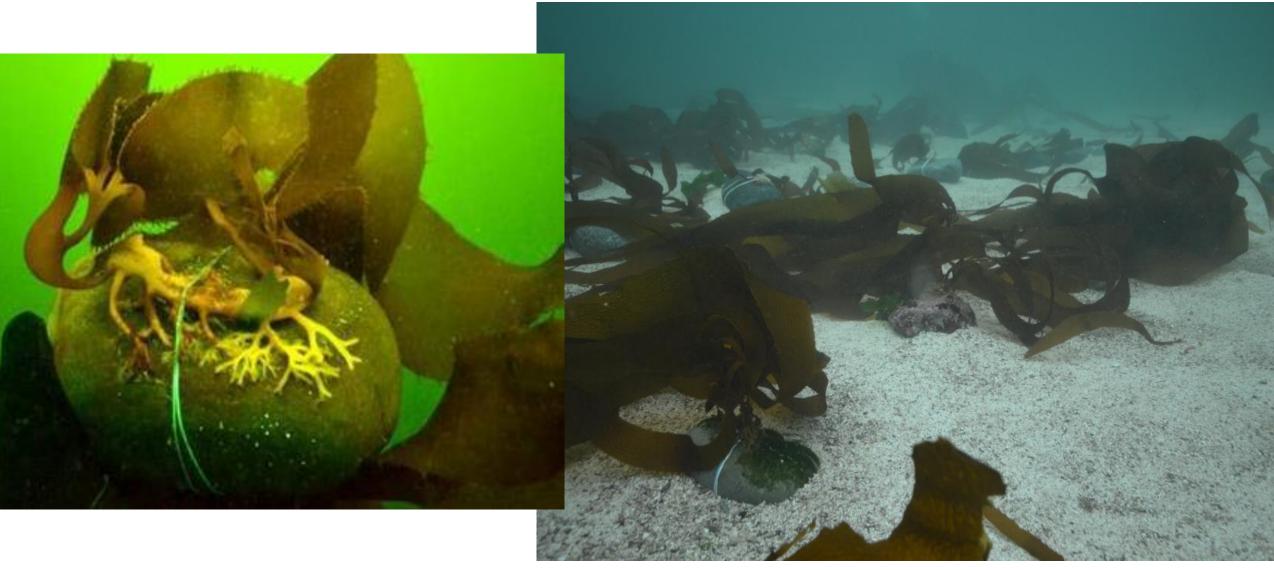








Fijación de esporofitos sobre bolones, utilizando elástico



Westermeier et al 2011,2013

Fijación de esporofitos sobre bolones, utilizando Pegamento



Westermeier et al 2011,2013

Fijación de frondas reproductivas sobre bolones, utilizando mallas de algodón

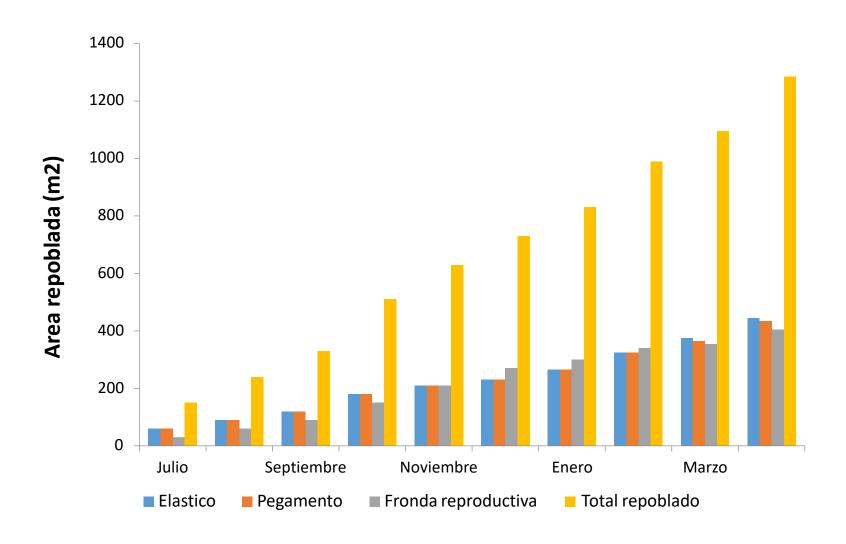


Westermeier et al 2011,2013





Grado de repoblamiento de M. integrifolia en áreas despejadas en Bahía Chasco.





Repoblamiento con *Lessonia berteroana* en Atacama











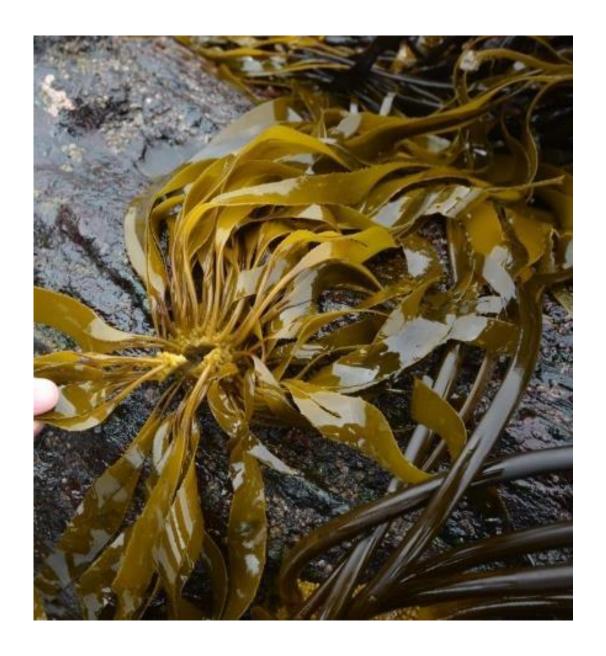








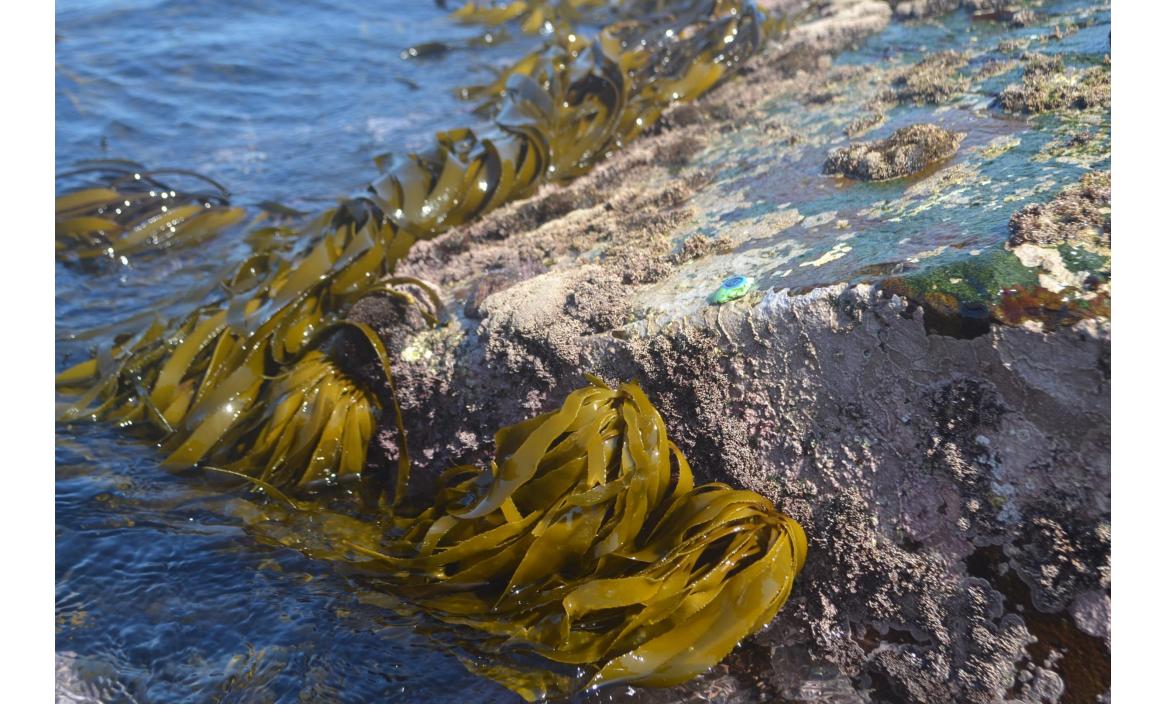


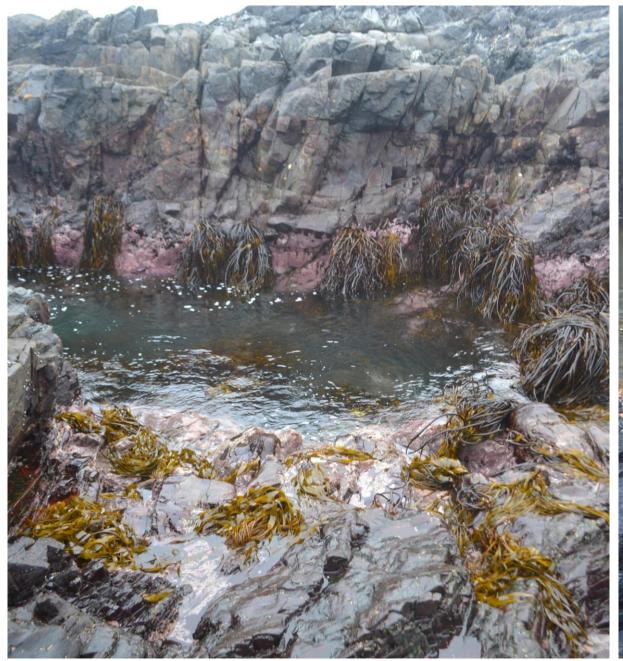


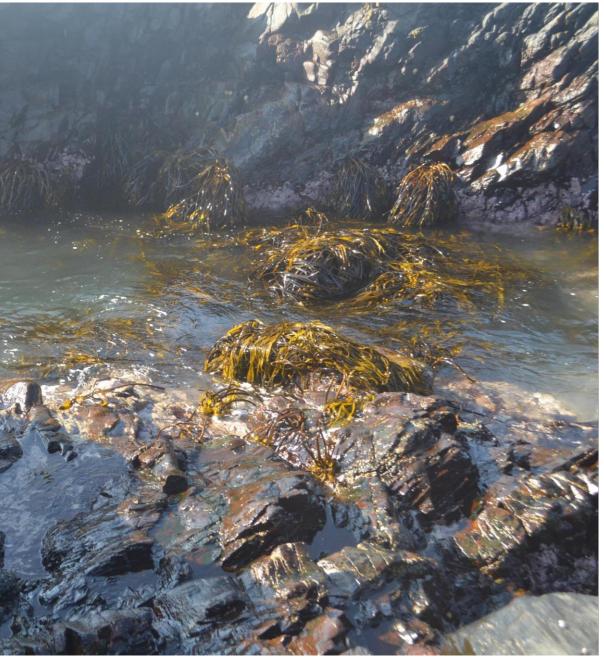


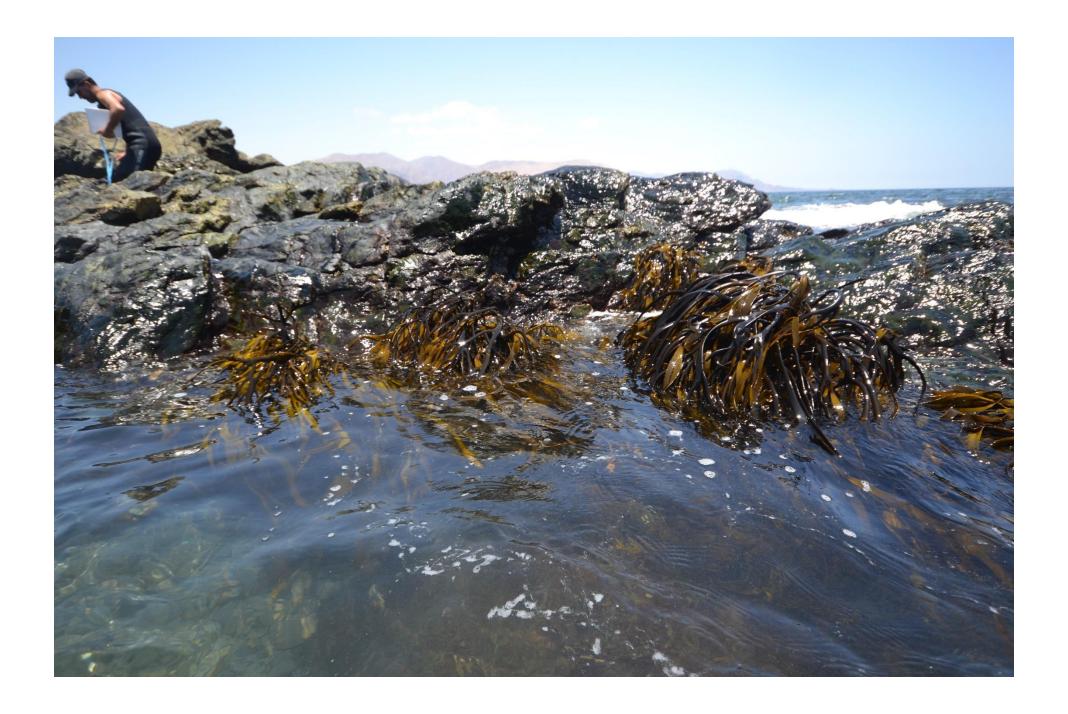




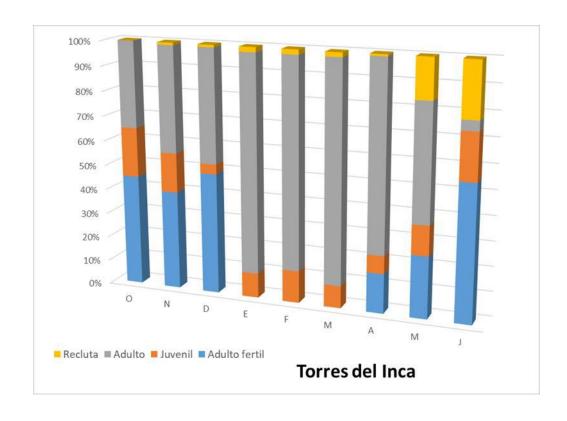


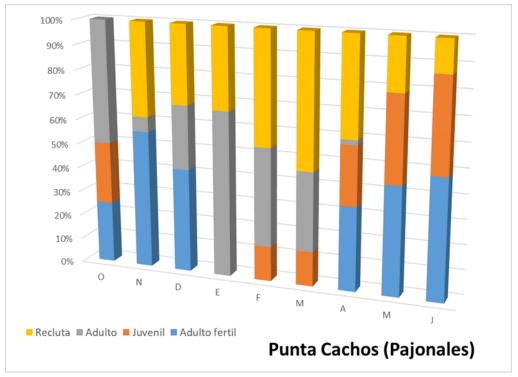






Dinámica poblacional





Punta Cacho (Pajonales)

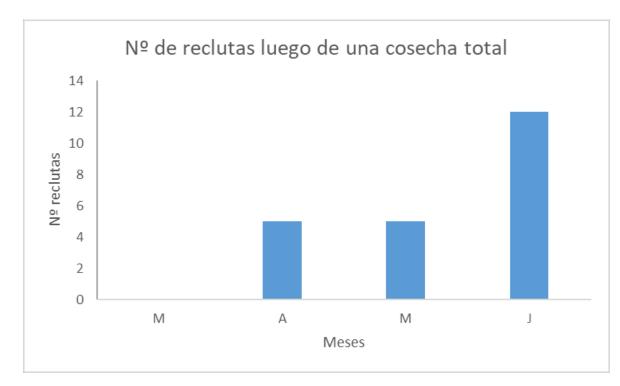
	· mile carrie (a) circular					
	Diam. Disco (cm)	Diam.estipe (cm)	N° Estipe	Largo (cm)		
Octubre	11,5	1,3	14,9	124,7		
Noviembre	9,5	1,2	14,6	119,6		
Diciembre	13,1	1,4	16,4	159,7		
Enero	15,4	1,5	19,0	178,9		
Febrero	11,25	1,01	20,48	137,74		
Marzo	10,35	0,90	20,26	129,83		
Abril	11,2	0,9	22,6	147,7		
Mayo	14,2	1,1	18,0	151,3		
Junio	15,8	1,2	20,0	174,1		

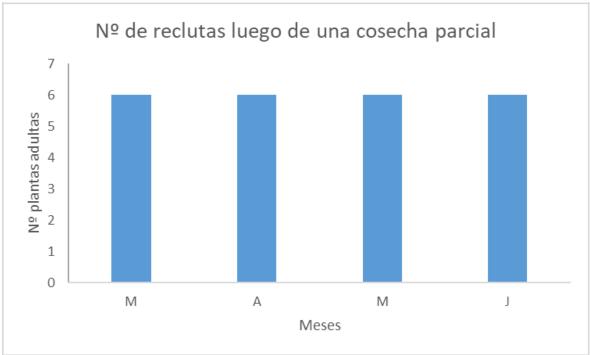
Torre de Inca

10110 22 11102							
Octubre	17,7	1,3	30,6	207,2			
Noviembre	18,3	1,7	30,4	243,3			
Diciembre	23,5	1,8	30,9	310,8			
Enero	18,4	1,3	28,3	198,8			
Febrero	19,8	1,4	30,25	211,25			
Marzo	20,75	1,51	30,62	219			
Abril	22,4	1,6	32,7	244,3			
Mayo	12,0	0,8	21,0	129,4			
Junio	13,6	0,9	23,8	154,3			



Densidad de Reclutas





No hay reclutas, se mantienen las plantas adultas





Gracias