BIOGEOCHEMISTRY LOGBOOK

SOCIB-CANALES SUMMER19

SOCIB_ENL_CANALES_JUL2019_SUMMER

TOTAL DO samples	66
TOTAL Nutrients samples	199
TOTAL Chl a samples	117
TOTAL HPLC samples	6
TOTAL Phyto samples	29
TOTAL Salinity samples	50
TOTAL SUV51 profiles	33
TOTAL Garicast Profiles	0
TOTAL NUMBER STATIONS	28

	RDM_01	RDM_02	RDM_03	RDM_04	RDM_05	RDM_06	RDM_07	RDM_08	RDM_09	RDM_10
Station DO samples	0	2	2	2	3	3	3	4	3	0
Station Nutrients samples	4	5	5	6	8	8	9	9	8	4
Station ChlA samples	4	4	4	4	4	4	4	4	4	4
Station HPLC samples	0	0	0	0	0	0	0	0	0	0
Station Phyto samples	0	1	1	1	1	1	1	1	1	0
Station Salinity samples	2	2	2	2	2	2	2	2	1	0
Station SUV51 profile	1	1	1	1	1	1	1	1	1	1

	S2_01	S2_02	S2_03	S2_04	S2_05	S2_06	S2_07	S2_08	S2_09	S2_10	S2_11	S2_12	S2_13	S2_14	S2_085	T1_END
Station DO samples	0	2	3	3	3	3	3	3	1	1	1	1	1	1	2	0
Station Nutrients samples	5	5	9	9	9	9	9	8	1	1	1	1	1	1	6	5
Station ChlA samples	4	4	5	4	4	5	4	4	1	1	1	1	1	1	4	4
Station HPLC samples	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0
Station Phyto samples	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
Station Salinity samples	0	0	2	3	2	4	2	2	1	1	1	1	1	1	2	2
Station SUV51 profile	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

	S2_16	S2_17	S2_18	S2_19	S2_20	S2_21	S2_22	S2_23
Station DO samples	0	2	3	3	3	3	2	0
Station Nutrients samples	5	5	8	9	9	9	8	5
Station ChlA samples	4	4	4	4	4	5	4	4
Station HPLC samples	0	0	0	0	0	0	0	0
Station Phyto samples	1	1	1	1	1	1	1	0
Station Salinity samples	0	1	1	2	2	2	2	0
Station SUV51 profile	1	1	1	1	1	1	1	1

			Station:	**RADMED_01**			**Date | Time:**		2019/07/30 08:32 UTC
			Observations:	Programado inicio SCB-SBE37004 a las 08:19 UTC. SCB-SBE9001 a las 08:23 UTC. Perdemos comunicación en la cubierta, reinicio del perfil 08:32 UT					
				-SAMPLED VARIABLES-					
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	65		x	x					
Btl. #02	65								
Btl. #03	50		x	x			x		No hay reeplica nut. C n B
Btl. #04	50								No cerró correctamente
Btl. #05	25		x	x					No hay reeplica nut. b
Btl. #06	25								
Btl. #07	5		x	x					
Btl. #08	5						x		
Btl. #09									
Btl. #10									
Btl. #11									
Btl. #12									
SUV51 profile	x		**Garicast profile**						

			Station:	**RADMED_02**				**Date | Time:**	2019/07/30 09:20 UTC
			Observations:						
-SAMPLED VARIABLES-									
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	90	x	x	x					
Btl. #02	90								
Btl. #03	75		x						No hay réplica c
Btl. #04	75						x		
Btl. #05	61		x	x		x			DCM muy alto, no hay réplica c de nut.
Btl. #06	61								
Btl. #07	25	x	x	x					
Btl. #08	25								
Btl. #09	5		x	x			x		
Btl. #10	5								
Btl. #11									
Btl. #12									

SUV51 profile	x	**Garicast profile**	

			Station:	**RADMED_03**				**Date | Time:**	2019/07/30 10:11 UTC
			Observations:	Bajamos de 40 m a 59 m para tomar muestra de DCM					
				-SAMPLED VARIABLES-					
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	108	x	x	x					
Btl. #02	108						x		
Btl. #03	75		x						
Btl. #04	75								No cerró correctamente
Btl. #05	59		x	x		x			dcm
Btl. #06	59								
Btl. #07	25	x	x	x					
Btl. #08	25								
Btl. #09	5		x	x					
Btl. #10	5						x		
Btl. #11									
Btl. #12									

SUV51 profile	x	**Garicast profile**	

			Station:	RADMED_04				Date | Time:	2019/07/30 10:55 UTC
			Observations:						
-SAMPLED VARIABLES-									
	Depth (m)	DO	Nutr	Chla	HPLC	Phyto	Sal	Other	Remarks
Btl. #01	121	x	x	x			x		
Btl. #02	121								
Btl. #03	100		x						
Btl. #04	100						x		
Btl. #05	56		x						
Btl. #06	56								
Btl. #07	46		x	x		x			sin dcm
Btl. #08	46								
Btl. #09	25	x	x	x					
Btl. #10	25								
Btl. #11	5		x	x					
Btl. #12	5								

SUV51 profile	x	Garicast profile	

Station:	RADMED_05	Date | Time:	2019/07/30 11:48 UTC
Observations:			

-SAMPLED VARIABLES-

	Depth (m)	DO	Nutr	Chla	HPLC	Phyto	Sal	Other	Remarks
Btl. #01	471	x	x						
Btl. #02	471						x		
Btl. #03	200	x	x						
Btl. #04	200								
Btl. #05	125		x	x			x		
Btl. #06	100		x						
Btl. #07	71		x	x		x			dcm
Btl. #08	71								
Btl. #09	50		x						
Btl. #10	25	x	x	x					
Btl. #11	23								
Btl. #12	5		x	x					

SUV51 profile	x	Garicast profile	

			Station:	**RADMED_06**				**Date | Time:**	2019/07/30 12:53 UTC
			Observations:	No está claro si la botella 11 de salinidad corresponde a la Niskin 2 o a 200 m					
				-SAMPLED VARIABLES-					
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	585	x	x						
Btl. #02	585						x?		
Btl. #03	200	x	x						
Btl. #04	200						x?		
Btl. #05	125		x	x					
Btl. #06	100		x						
Btl. #07	75		x	x		x			dcm
Btl. #08	75								
Btl. #09	50		x						
Btl. #10	25	x	x	x					
Btl. #11	25								
Btl. #12	5		x	x					
SUV51 profile	x		**Garicast profile**						

			Station:	**RADMED_07**			**Date | Time:**		2019/07/30 13:56 UTC
			Observations:						
-SAMPLED VARIABLES-									
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	663	x	x						
Btl. #02	663						x		
Btl. #03	500		x						
Btl. #04	200								No cerró correctamente
Btl. #05	200	x	x				x		
Btl. #06	125		x	x					
Btl. #07	100		x						
Btl. #08	75		x						
Btl. #09	65		x	x		x			dcm
Btl. #10	25	x	x	x					
Btl. #11	25								
Btl. #12	5		x	x					

SUV51 profile	x	**Garicast profile**	

			Station:	**RADMED_08**			**Date | Time:**		2019/07/30 14:55 UTC
			Observations:						
-SAMPLED VARIABLES-									
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	529	x	x				x		
Btl. #02	529								
Btl. #03	500	x	x						
Btl. #04	200	x	x				x		
Btl. #05	200								
Btl. #06	125		x	x					
Btl. #07	100		x						
Btl. #08	75		x						
Btl. #09	60		x	x		x			dcm
Btl. #10	25	x	x	x					
Btl. #11	25								
Btl. #12	5		x	x					
SUV51 profile	x		**Garicast profile**						

Station:	RADMED_09	Date | Time:	2019/07/30 15:43 UTC
Observations:			

-SAMPLED VARIABLES-

	Depth (m)	DO	Nutr	Chla	HPLC	Phyto	Sal	Other	Remarks
Btl. #01	281	x	x				x		
Btl. #02	281								
Btl. #03	200	x	x						
Btl. #04	200								
Btl. #05	125		x	x					
Btl. #06	100		x						
Btl. #07	75		x						
Btl. #08	54		x	x		x			dcm
Btl. #09	50								
Btl. #10	25	x	x	x					
Btl. #11	25								
Btl. #12	5		x	x					

SUV51 profile	x	**Garicast profile**	

			Station:	RADMED_10				Date | Time:	2019/07/30 16:25 UTC
			Observations:						
-SAMPLED VARIABLES-									
	Depth (m)	DO	Nutr	Chla	HPLC	Phyto	Sal	Other	Remarks
Btl. #01	69		x	x					
Btl. #02	69								
Btl. #03	50		x	x					
Btl. #04	50								
Btl. #05	25		x	x					
Btl. #06	25								
Btl. #07	5		x	x					
Btl. #08	5								
Btl. #09									
Btl. #10									
Btl. #11									
Btl. #12									

SUV51 profile	x		Garicast profile	

			Station:	S2_01				Date | Time:	2019/07/31 06:53 UTC
			Observations:						
-SAMPLED VARIABLES-									
	Depth (m)	DO	Nutr	Chla	HPLC	Phyto	Sal	Other	Remarks
Btl. #01	114		x	x					
Btl. #02	114								
Btl. #03	75		x						
Btl. #04	75								
Btl. #05	50		x	x					
Btl. #06	50								
Btl. #07	25		x	x					
Btl. #08	25								
Btl. #09	5		x	x					
Btl. #10	5								
Btl. #11									
Btl. #12									
SUV51 profile	x		Garicast profile						

Station:	S2_02	Date | Time:	2019/07/31 07:26 UTC
Observations:			

-SAMPLED VARIABLES-

	Depth (m)	DO	Nutr	Chla	HPLC	Phyto	Sal	Other	Remarks
Btl. #01	110	x	x	x					
Btl. #02	110								
Btl. #03	75		x						
Btl. #04	75								
Btl. #05	50		x	x		x			dcm
Btl. #06	50								
Btl. #07	25	x	x	x					
Btl. #08	25								
Btl. #09	5		x	x					
Btl. #10	5								
Btl. #11									
Btl. #12									

SUV51 profile	x	Garicast profile	

			Station:	**S2_03**			**Date | Time:**		2019/07/31 08:37 UTC
			Observations:	Cambio de posición (1 milla a proa) por arrastrero faenando					
				-SAMPLED VARIABLES-					
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	636	x	x						
Btl. #02	636						x		
Btl. #03	500		x	x			x		
Btl. #04	200	x	x						
Btl. #05	200								
Btl. #06	125		x	x					
Btl. #07	100		x						
Btl. #08	80		x	x		x			dcm
Btl. #09	50		x						
Btl. #10	25	x	x	x					
Btl. #11	25								
Btl. #12	5		x	x					

SUV51 profile	x	**Garicast profile**	

			Station:	**S2_04**			**Date | Time:**		2019/07/31 10:05 UTC
			Observations:						
-SAMPLED VARIABLES-									
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	828	x	x						
Btl. #02	828						x		
Btl. #03	500		x				x		
Btl. #04	200	x	x						
Btl. #05	200								
Btl. #06	125		x	x			x		
Btl. #07	100		x						
Btl. #08	82		x	x		x			dcm
Btl. #09	50		x						
Btl. #10	25	x	x	x					
Btl. #11	25								
Btl. #12	5		x	x					
SUV51 profile	x		**Garicast profile**						

Station:	S2_05	Date | Time:	2019/07/31 11:27 UTC
Observations:			

-SAMPLED VARIABLES-

	Depth (m)	DO	Nutr	Chla	HPLC	Phyto	Sal	Other	Remarks
Btl. #01	947	x	x						
Btl. #02	947						x		
Btl. #03	500		x				x		
Btl. #04	200	x	x						
Btl. #05	200								
Btl. #06	125		x	x					
Btl. #07	100		x						
Btl. #08	82		x	x		x			dcm
Btl. #09	50		x						
Btl. #10	25	x	x	x					
Btl. #11	25								
Btl. #12	5		x	x					

SUV51 profile	x	Garicast profile	

			Station:	**S2_06**			**Date | Time:**		2019/07/31 12:57 UTC
			Observations:	En la subida el sensor de turbidez da valores anómalos (spikes) entre 530 m					
				-SAMPLED VARIABLES-					
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	895	x	x				x		
Btl. #02	500						x		
Btl. #03	410		x	x			x		
Btl. #04	200	x	x						
Btl. #05	200								
Btl. #06	125		x	x					
Btl. #07	100		x						
Btl. #08	78		x	x		x			dcm
Btl. #09	50		x						
Btl. #10	31	x	x	x			x		
Btl. #11	25								
Btl. #12	5		x	x					
SUV51 profile	x		**Garicast profile**						

			Station:	**S2_07**			**Date | Time:**		2019/07/31 14:06 UTC
			Observations:						
-SAMPLED VARIABLES-									
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	706	x	x						
Btl. #02	706								
Btl. #03	500		x				x		
Btl. #04	200	x	x						
Btl. #05	200								
Btl. #06	125		x	x					
Btl. #07	100		x						
Btl. #08	75		x				x		
Btl. #09	46		x	x		x			dcm
Btl. #10	46								
Btl. #11	25	x	x	x					
Btl. #12	5		x	x					
SUV51 profile	x		**Garicast profile**						

Station:	S2_08	Date | Time:	2019/07/31 14:57 UTC
Observations:			

-SAMPLED VARIABLES-

	Depth (m)	DO	Nutr	Chla	HPLC	Phyto	Sal	Other	Remarks
Btl. #01	282	x	x						
Btl. #02	282						x		
Btl. #03	200	x	x						
Btl. #04	200						x		
Btl. #05	125		x	x					
Btl. #06	100		x						
Btl. #07	75		x						
Btl. #08	65		x	x		x			dcm
Btl. #09	65								
Btl. #10	25	x	x	x					
Btl. #11	25								
Btl. #12	5		x	x					

SUV51 profile	x	Garicast profile	

			Station:	**S2_085**			**Date | Time:**		2019/07/31 15:43 UTC
			Observations:	Bajamos de 60 m a 100 m para tomar muestras. Sensor de turbidez con spikes tanto en el up como en el downcast					
				-SAMPLED VARIABLES-					
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	120	x	x	x					
Btl. #02	120						x		
Btl. #03	100		x						
Btl. #04	100						x		
Btl. #05	75		x						
Btl. #06	75								
Btl. #07	50		x	x		x			dcm
Btl. #08	50								
Btl. #09	25	x	x	x					
Btl. #10	25								
Btl. #11	5								
Btl. #12	5		x	x					
SUV51 profile	x		**Garicast profile**						

			Station:	**T1_END**			**Date | Time:**		2019/07/31 16:15 UTC
			Observations:	Limpieza conector turbidez, fluorescencia y el sensor y el conector del turbidímetro. A 75 m en el upcast el sensor de turbidez vuelve a marcar datos anc					
-SAMPLED VARIABLES-									
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	92		x	x					
Btl. #02	92						x		
Btl. #03	75		x						
Btl. #04	75								
Btl. #05	65		x	x			x		dcm
Btl. #06	65								
Btl. #07	25		x	x					
Btl. #08	5								
Btl. #09	5		x	x					
Btl. #10									
Btl. #11									
Btl. #12									
SUV51 profile	x		**Garicast profile**						

			Station:	**S2_16**			**Date | Time:**		2019/08/02 14:43 UTC
			Observations:						
-SAMPLED VARIABLES-									
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	100		x	x					
Btl. #02	100								
Btl. #03	75		x	x		x			dcm
Btl. #04	75								
Btl. #05	50		x						
Btl. #06	50								
Btl. #07	25		x	x					
Btl. #08	25								
Btl. #09	5		x	x					
Btl. #10	5								
Btl. #11									
Btl. #12									

SUV51 profile	x	**Garicast profile**	

			Station:	**S2_17**			**Date | Time:**		2019/08/02 14:05 UTC
			Observations:						
-SAMPLED VARIABLES-									
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	113	x	x	x					
Btl. #02	113						x		
Btl. #03	70		x	x		x			dcm
Btl. #04	70								
Btl. #05	50		x						
Btl. #06	50								
Btl. #07	25	x	x	x					
Btl. #08	25								
Btl. #09	5		x	x					
Btl. #10	5								
Btl. #11									
Btl. #12									

SUV51 profile	x	**Garicast profile**	

			Station:	**S2_18**				**Date | Time:**	2019/08/02 13:18 UTC
			Observations:	Tiempo y profundidad corregidos a posteriori en header form					
				-SAMPLED VARIABLES-					
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	431	x	x				x		
Btl. #02	431								
Btl. #03	200	x	x						
Btl. #04	200								
Btl. #05	125		x	x					
Btl. #06	100		x						
Btl. #07	89		x	x		x			dcm
Btl. #08	50		x						
Btl. #09	25	x	x	x					
Btl. #10	25								
Btl. #11	5		x	x					
Btl. #12									
SUV51 profile	x		**Garicast profile**						

			Station:	**S2_19**			**Date | Time:**		2019/08/02 11:45 UTC
			Observations:	En los primeros metros los valores de temperatura muestran diferencias significativas entre los dos sensores					
-SAMPLED VARIABLES-									
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	641	x	x				x		
Btl. #02	641								
Btl. #03	500		x				x		
Btl. #04	200	x	x						
Btl. #05	200								
Btl. #06	125		x	x					
Btl. #07	100		x						
Btl. #08	89		x	x		x			dcm
Btl. #09	50		x						
Btl. #10	25	x	x	x					
Btl. #11	25								
Btl. #12	5		x	x					

SUV51 profile	x	**Garicast profile**	

			Station:	**S2_20**			**Date | Time:**		2019/08/02 11:05 UTC
			Observations:						
-SAMPLED VARIABLES-									
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	851	x	x						
Btl. #02	851						x		
Btl. #03	500		x				x		
Btl. #04	200	x	x						
Btl. #05	200								
Btl. #06	125		x	x					
Btl. #07	100		x						
Btl. #08	88		x	x		x			dcm
Btl. #09	50		x						
Btl. #10	25	x	x	x					
Btl. #11	25								
Btl. #12	5		x	x					
SUV51 profile	x		**Garicast profile**						

			Station:	**S2_21**			**Date | Time:**		2019/08/02 09:52 UTC
			Observations:						
-SAMPLED VARIABLES-									
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	808	x	x						
Btl. #02	808								
Btl. #03	500		x	x			x		
Btl. #04	200	x	x						
Btl. #05	200								
Btl. #06	125		x	x					
Btl. #07	100		x						
Btl. #08	85		x	x		x			dcm
Btl. #09	50		x						
Btl. #10	25	x	x	x					
Btl. #11	25								
Btl. #12	5		x	x			x		
SUV51 profile	x		**Garicast profile**						

			Station:	**S2_22**			**Date | Time:**		2019/08/02 08:35 UTC
			Observations:						
-SAMPLED VARIABLES-									
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	335	x	x						
Btl. #02	335						x		
Btl. #03	200	x	x						
Btl. #04	200								
Btl. #05	125		x	x			x		
Btl. #06	100		x						
Btl. #07	75		x						
Btl. #08	56		x	x		x			dcm
Btl. #09	56								
Btl. #10	25		x	x					
Btl. #11	25								
Btl. #12	5		x	x					
SUV51 profile	x		**Garicast profile**						

			Station:	**S2_23**			**Date | Time:**		2019/08/02 07:41 UTC
			Observations:						
				-SAMPLED VARIABLES-					
	Depth (m)	**DO**	**Nutr**	**Chla**	**HPLC**	**Phyto**	**Sal**	**Other**	**Remarks**
Btl. #01	109		x	x					
Btl. #02	109								
Btl. #03	75		x						
Btl. #04	75								
Btl. #05	55		x	x					dcm
Btl. #06	55								
Btl. #07	25		x	x					
Btl. #08	25								
Btl. #09	5		x	x					
Btl. #10	5								
Btl. #11									
Btl. #12									
SUV51 profile	x		**Garicast profile**						