

CANALES-spring program (5-8 May 2016)

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Date	Station	Depth (m)	Oxygen	Nuts	Chl a	HPLC	Phyto	Remarks
5/5/2016	S2 01	5	-	x	x	x	-	
	S2 01	25	x	x	x	-	-	
	S2 01	50	-	x	x	x	x	Bottle 5
	S2 01	75	-	x	-	-	-	
	S2 01	Bottom	x	x	x	-	-	
5/5/2016	S2 02	5	-	x	x	x	-	At this station open bottles: 3, 5, 6 , 8 & 11 (sampled 9 & 10)
	S2 02	25	x	x	x	-	-	
	S2 02	50	-	x	x	x	x	DCM bottle 9
	S2 02	75	-	x	-	-	-	
	S2 02	Bottom	x	x	x	-		
5/5/2016	S2 03	5	-	x	x	x	-	Water leaking
	S2 03	25	x	x	x	-	-	
	S2 03	50	-	x	x	x	x	DCM (62 m)
	S2 03	75	-	x	-	-	-	
	S2 03	100	-	x	-	-	-	
	S2 03	125	-	x	x	-	-	
	S2 03	200	x	x	-	-	-	
	S2 03	500	-	x	x	x	-	Chl a filter bit dry while filtering
	S2 03	Bottom	x	x	-	-	-	
5/5/2016	S2 04	5	-	x	x	x	-	HPLC filtered volume=1538 ml
	S2 04	25	-	-	-	-	-	Open bottle
	S2 04	50	-	x	x	x	x	8 open, sampled from bottle number 9 (DCM= 50m)
	S2 04	75	-	x	-	-	-	
	S2 04	100	-	x	-	-	-	
	S2 04	125	-	x	x	-	-	
	S2 04	200	x	x	-	-	-	
	S2 04	500	-	-	-	-	-	Open bottle
	S2 04	Bottom	x	x	-	-	-	Bottle 2 open, sampled bottle 1
5/5/2016	S2 05	5	-	x	x	x	x	Phytoplankton sampled at surface too
	S2 05	25	x	x	x	-	-	Sampled bottle 10
	S2 05	50	-	x	x	x	x	Sampled bottle 9 (DCM)
	S2 05	75	-	x	-	-	-	
	S2 05	100	-	-	-	-	-	Open Niskin
	S2 05	125	-	-	-	-	-	Open bottle
	S2 05	200	x	x	-	-	-	
	S2 05	500	-	-	-	-	-	Open bottle
	S2 05	Bottom	x	x	-	-	-	

5/6/2016	S2 06	5	-	x	x	x	-	Bottle 11
	S2 06	25	-	-	-	-	-	Open bottle
	S2 06	50	-	x	x	x	x	DCM=50m
	S2 06	75	-	x	-	-	-	
	S2 06	100	-	x	-	-	-	
	S2 06	125	-	x	x	-	-	
	S2 06	200	x	x	-	-	-	
	S2 06	500	-	x	x	x	-	
	S2 06	Bottom	x	x	-	-	-	
5/6/2016	S2 07	5	-	x	x	x	-	
	S2 07	25	x	x	x	-	-	Closed at 18 m (bottle 11)
	S2 07	50	-	x	x	x	x	DCM
	S2 07	75	-	x	-	-	-	
	S2 07	100	-	x	-	-	-	
	S2 07	125	-	x	x	-	-	
	S2 07	200	x	x	-	-	-	
	S2 07	500	-	x	-	-	-	
	S2 07	Bottom	x	x	-	-	-	
5/6/2016	S2 08	5	-	x	x	x	-	
	S2 08	25	x	x	x	-	-	
	S2 08	50	-	x	x	x	x	Bottle 7 (DCM)
	S2 08	75	-	x	-	-	-	
	S2 08	100	-	x	-	-	-	
	S2 08	125	-	x	x	-	-	
	S2 08	200	x	x	-	-	-	
	S2 08	Bottom	x	x	-	-	-	
5/6/2016	S2 09	5	-	x	x	x	x	plankton sampled at surface. Presence of Copepods
	S2 09	25	x	x	x	-	-	Copepods
	S2 09	50	-	x	x	x	x	Up & down casts mismatch for oxygen sensor
	S2 09	75	-	x	-	-	-	
	S2 09	100	-	x	-	-	-	
	S2 09	Bottom	x	x	x	-	-	
5/6/2016	S2 10	5	-	x	x	x	-	Brown spots on filter for 5 m
	S2 10	25	x	x	x	-	-	
	S2 10	50	-	x	x	x	x	DCM (bottle 7)
	S2 10	75	-	x	-	-	-	
	S2 10	100	-	x	-	-	-	
	S2 10	125	-	x	x	-	-	
	S2 10	200	x	x	-	-	-	
	S2 10	Bottom	x	x	-	-	-	
5/6/2016	S2 11	5	-	x	x	x	x	Phytoplankton sampled at surface
	S2 11	25	x	x	x	-	-	

	S2 11	50	-	x	x	x	x	DCM (bottle 9)
	S2 11	75	-	x	-	-	-	
	S2 11	100	-	x	-	-	-	
	S2 11	125	-	x	x	-	-	
	S2 11	200	x	x	-	-	-	
	S2 11	500	-	x	-	-	-	
	S2 11	Bottom	x	x	-	-	-	
5/6/2016	S2 12	5	-	x	x	x	-	
	S2 12	25	x	x	x	-	-	
	S2 12	50	-	x	x	x	x	DCM 45m. Fluo CTD sensor =1.5 v (45 m, DCM)
	S2 12	75	-	x	-	-	-	
	S2 12	100	-	x	-	-	-	
	S2 12	125	-	x	x	-	-	
	S2 12	200	x	x	-	-	-	
	S2 12	500	-	x	x	x	-	
	S2 12	Bottom	x	x	-	-	-	
5/6/2016	S2 13	5	-	x	x	x	-	Bottle 8 open
	S2 13	25	x	x	x	-	-	
	S2 13	50	-	x	x	x	x	Sampled at 34 m (Bottle 9, DCM, chl a=1.6 v)
	S2 13	75	-	x	-	-	-	Up & down casts mismatch for oxygen sensor
	S2 13	100	-	x	-	-	-	
	S2 13	125	-	x	x	-	-	
	S2 13	200	x	x	-	-	-	
	S2 13	500	-	x	-	-	-	
	S2 13	Bottom	x	x	-	-	-	
5/7/2016	S2 14	5	-	x	x	x	-	Copepods
	S2 14	25	x	x	x	-	-	
	S2 14	50	-	x	x	x	x	DCM (60m, bottle 7)
	S2 14	75	-	x	-	-	-	
	S2 14	100	-	x	-	-	-	
	S2 14	125	-	x	x	-	-	
	S2 14	200	x	x	-	-	-	
	S2 14	Bottom	x	x	-	-	-	
5/7/2016	S2 15	5	-	x	x	x	-	
	S2 15	25	x	x	x	-	-	
	S2 15	50	-	x	x	x	x	Copepods
	S2 15	75	-	x	-	-	-	
	S2 15	Bottom	x	x	x	-	-	
5/7/2016	S2 16	5	-	x	x	x	-	
	S2 16	25	x	x	x	-	-	
	S2 16	50	-	x	x	x	x	DCM (55 m, bottle 5)
	S2 16	75	-	x	-	-	-	

	S2 16	Bottom	x	x	x	-	-
5/7/2016	S2 17	5	-	x	x	x	-
	S2 17	25	x	x	x	-	-
	S2 17	50	-	x	x	x	x
	S2 17	75	-	x	-	-	-
	S2 17	Bottom	x	x	x	-	-
5/7/2016	S2 18	5	-	x	x	x	- station is very interesting N flow & distinct salinities
	S2 18	25	x	x	x	-	-
	S2 18	50	-	x	x	x	DCM 44 m
	S2 18	75	-	x	-	-	-
	S2 18	100	-	x	-	-	-
	S2 18	125	-	x	x	-	-
	S2 18	200	x	x	-	-	-
	S2 18	Bottom	x	x	-	-	-
5/7/2016	S2 19	5	-	x	x	x	- implied surface flow at 13.05 h (reading: 0.814 v)
	S2 19	25	x	x	x	-	-
	S2 19	50	-	x	x	x	DCM (60 m)
	S2 19	75	-	x	-	-	-
	S2 19	100	-	x	-	-	-
	S2 19	125	-	x	x	-	-
	S2 19	200	x	x	-	-	-
	S2 19	500	-	x	-	-	-
	S2 19	Bottom	x	x	-	-	-
5/7/2016	S2 20	5	-	x	x	x	- Sampled surface flow at 12pm (reading: 0.828 v)
	S2 20	25	x	x	x	-	-
	S2 20	50	-	x	x	x	DCM, copepods
	S2 20	75	-	x	-	-	-
	S2 20	100	-	x	-	-	-
	S2 20	125	-	x	x	-	-
	S2 20	200	x	x	-	-	-
	S2 20	500	-	x	-	-	-
	S2 20	Bottom	x	x	-	-	-
5/7/2016	S2 21	5	-	x	x	x	-
	S2 21	25	x	x	x	-	-
	S2 21	50	-	x	x	x	Sampled from bottle 9, DCM
	S2 21	75	-	x	-	-	-
	S2 21	100	-	x	-	-	-
	S2 21	125	-	x	x	-	-
	S2 21	200	x	x	-	-	-
	S2 21	500	-	x	x	x	- HPLC envelope not numbered
	S2 21	Bottom	x	x	-	-	-
5/7/2016	S2 22	5	-	x	x	x	-

	S2 22	25	x	x	x	-	-	
	S2 22	50	-	x	x	x	x	DCM (50 m, bottle 7)
	S2 22	75	-	x	-	-	-	
	S2 22	100	-	x	-	-	-	
	S2 22	125	-	x	x	-	-	
	S2 22	200	x	x	-	-	-	
	S2 22	Bottom	x	x	-	-	-	
5/7/2016	S2 23	5	-	x	x	x	x	Maybe dry filter for HPLC
	S2 23	25	x	x	x	-	-	
	S2 23	50	-	x	x	x	x	DCM 45 m
	S2 23	75	-	x	-	-	-	
	S2 23	Bottom	x	x	x	-	-	
5/6/2016	S2 85	5	-	x	x	x	x	HPLC volume= 1190 ml.Clogging
	S2 85	25	x	x	x	-	-	
	S2 85	50	-	x	x	x	x	DCM (45 m, bottle 5)
	S2 85	75	-	x	-	-	-	
	S2 85	100	-	x	-	-	-	
	S2 85	Bottom	x	x	x	-	-	
5/6/2016	S2 T1 end	5	-	x	x	x	-	HPLC filtered volume= 1000 ml. Clogging.
	S2 T1 end	25	x	x	x	-	-	
	S2 T1 end	50	-	x	x	x	x	
	S2 T1 end	75	-	x	-	-	-	
	S2 T1 end	Bottom	x	x	x	-	-	
5/8/2016	RDM 10	5	-	x	x	x	-	
	RDM 10	25	x	x	x	-	-	
	RDM 10	50	-	x	x	x	x	5 & 50 m exchanged for HPLC
	RDM 10	Bottom	x	x	x	-	-	
5/8/2016	RDM 09	5	-	x	x	x	-	
	RDM 09	25	x	x	x	-	-	
	RDM 09	50	-	x	x	-	x	DCM 50 m (bottle 7)
	RDM 09	75	-	x	-	-	-	
	RDM 09	100	-	x	-	-	-	
	RDM 09	125	-	x	x	-	-	
	RDM 09	200	x	x	-	-	-	
	RDM 09	Bottom	x	x	-	-	-	
5/8/2016	RDM 08	5	-	x	x	x	-	
	RDM 08	25	x	x	x	-	-	
	RDM 08	50	-	x	x	x	x	DCM 47 m (bottle 7)
	RDM 08	75	-	x	-	-	-	
	RDM 08	100	-	x	-	-	-	
	RDM 08	125	-	x	x	-	-	
	RDM 08	200	x	x	-	-	-	

	RDM 08	Bottom	x	x	-	-	-
5/8/2016	RDM 07	5	-	x	x	x	-
	RDM 07	25	x	x	x	-	-
	RDM 07	50	-	x	x	x	x
	RDM 07	75	-	x	-	-	-
	RDM 07	100	-	x	-	-	-
	RDM 07	125	-	x	x	-	-
	RDM 07	200	x	x	-	-	-
	RDM 07	500	-	x	-	-	-
	RDM 07	Bottom	x	x	-	-	-
5/8/2016	RDM 06	5	-	x	x	x	-
	RDM 06	25	x	x	x	-	-
	RDM 06	50	-	x	-	-	-
	RDM 06	75	-	x	x	x	x
	RDM 06	100	-	-	-	-	-
	RDM 06	125	-	x	x	-	-
	RDM 06	200	x	x	-	-	-
	RDM 06	Bottom	x	x	-	-	-
5/8/2016	RDM 05	5	-	x	x	x	-
	RDM 05	25	x	x	x	-	-
	RDM 05	50	-	x	-	-	-
	RDM 05	75	-	x	x	x	x
	RDM 05	100	-	x	-	-	-
	RDM 05	125	-	x	x	-	-
	RDM 05	200	x	x	-	-	-
	RDM 05	Bottom	x	x	-	-	-
5/8/2016	RDM 04	5	-	x	x	x	-
	RDM 04	25	x	x	x	-	-
	RDM 04	50	-	x	-	-	-
	RDM 04	75	-	x	x	x	x
	RDM 04	100	-	x	-	-	-
	RDM 04	Bottom	x	x	x	-	-
5/8/2016	RDM 03	5	-	x	x	x	-
	RDM 03	25	x	x	x	-	-
	RDM 03	50	-	x	x	x	x
	RDM 03	75	-	x	-	-	-
	RDM 03	Bottom	x	x	x	-	-
5/8/2016	RDM 02	5	-	x	x	x	-
	RDM 02	25	x	x	x	-	-
	RDM 02	50	-	x	x	x	x
	RDM 02	75	-	x	-	-	-
	RDM 02	Bottom	x	x	x	-	-

5/8/2016	RDM 01	5	-	x	x	x	-				
	RDM 01	25	x	x	x	-	-				
	RDM 01	50	-	x	x	x	x		Bottle 3		
	RDM 01	Bottom	x	x	x	-	-				

* Note: nutrient samples filtered during this cruise (GF/F)

**Chi a & HPLC sampled with nitrile gloves without pre-filtering

Incidences:

First day cruise HPLC samples not numbered. Starting numbering second day (1 to 23)

HPLC 3rd day from number 23 (S2-23 5m) to 42 (S2-16 DCM).

Nutrients: the second day old way of labeling (1, 2, 3 instead of ABC & CanalesFeb15)

































