

# DAILY SCIENCE LOG BOOK

MISSION  
NUMBER

2012-19

DATE:

From:

April 1

to:

April 5

VESSEL:

Vector

PROJECT(S):

SOG MOORINGS

Water Properties Group  
Fisheries and Oceans Canada  
Institute of Ocean Sciences  
Ocean Sciences Division  
North Saanich, BC, Canada

[WaterProperties.ca](http://WaterProperties.ca)

Peter

Chief Scientist:

Watch Cabin

Cindy Wright  
Lucius Perrault  
Glenn Cooper  
Dave Spear  
Kobie Macdonald

**Chief Scientist:**

## Watch Cabin

WP #2

# SAVE

model:  $11 +$

CTD  
lake: SBE

model:  $g +$

umber: 2038

number: 3394

1 number: 4883

ul number: 1763

Model:

Cable gain: 13

Model: 42

Model:

10

1000

100

1000

## Secondary CTD

model:

number:

number:

al number:

ial number:

### Model:

Cable gain:

**Model:**

**Model:**

1141

1151

1111

CTD calibration bottle location (height above CTD in metres):

**Rosette Setup:**

Number of bottles: 24  
Manufacturer: 105  
Volume of bottles (litres): 10

**Winches:**

1. Make: \_\_\_\_\_ Model: \_\_\_\_\_ Serial #: \_\_\_\_\_ Used for: \_\_\_\_\_  
2. Make: \_\_\_\_\_ Model: \_\_\_\_\_ Serial #: \_\_\_\_\_ Used for: \_\_\_\_\_  
3. Make: \_\_\_\_\_ Model: \_\_\_\_\_ Serial #: \_\_\_\_\_ Used for: \_\_\_\_\_

*Comments on performance during cruise* (comments should also be reflected in the post-cruise report):

**Salinometer:**

Make: \_\_\_\_\_ Model: \_\_\_\_\_ Serial Number: \_\_\_\_\_

*Comments on performance during cruise* (comments should also be reflected in the post-cruise report):

**Oxygen Kit(s):**

Make: \_\_\_\_\_ Model: \_\_\_\_\_ Kit Number: \_\_\_\_\_  
Make: \_\_\_\_\_ Model: \_\_\_\_\_ Kit Number: \_\_\_\_\_

*Comments on performance during cruise* (comments should also be reflected in the post-cruise report):

**Thermosalinograph System (SBE21):**

Program: \_\_\_\_\_ Version: \_\_\_\_\_  
Sampling interval (seconds): \_\_\_\_\_  
Fluorometer sensor serial number: \_\_\_\_\_

*Comments on performance during cruise* (comments should also be reflected in the post-cruise report):

**ADCP Setup:**

Computer time zone: \_\_\_\_\_ User Exits: Name: \_\_\_\_\_ Exit points: \_\_\_\_\_  
Sampling interval (sec): \_\_\_\_\_ Name: \_\_\_\_\_ Exit points: \_\_\_\_\_  
Bin Length: (2^x): \_\_\_\_\_ Name: \_\_\_\_\_ Exit points: \_\_\_\_\_  
Pulse Length: \_\_\_\_\_ Work File: \_\_\_\_\_  
Buffer (bytes): \_\_\_\_\_  
Gyro Offset: \_\_\_\_\_

*Comments on performance during cruise* (comments should also be reflected in the post-cruise report):

**CTD Test Cast Information**

Test Cast along side? Yes ☐ No ☐

*Comments* \_\_\_\_\_

Test Cast in Saanich Inlet or other location? Yes ☐ No ☐

*Comments* \_\_\_\_\_

CTD pressure reading on deck (db), before cast: \_\_\_\_\_ after cast: \_\_\_\_\_

**Pumps working?**

Yes ☐ (0011) No ☐ (0010)

**Secondary Temp – Primary Temp:**

(Average from the mixed region) \_\_\_\_\_

**Secondary Salinity – Primary Salinity:**

(Average from the mixed region) \_\_\_\_\_

***Additional Comments:***

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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| Month <u>APRIL</u> |              |            |           | Year <u>2012</u> |               |              | Ship <u>VECTOR</u>     |             |              |           | Cruise ID      |              |               |                |                      |
|--------------------|--------------|------------|-----------|------------------|---------------|--------------|------------------------|-------------|--------------|-----------|----------------|--------------|---------------|----------------|----------------------|
| Day                | Station Name | Time (UTC) | Time Code | Cast Type        | Firing Method | Event Number | Positional Information |             | Bottom Depth | Max Depth | Sample Numbers | # of Bottles | Watch Keepers | Trans. Cleaned | Comments             |
|                    |              |            |           |                  |               |              | Latitude               | Longitude   |              |           |                |              |               |                |                      |
| 1                  | M8           | 20:56      | BO        | CORE             | -             | 01           | 48 24.158              | 123 23.98   | 64           | 64        |                |              |               |                | 4 Bullet Box Core    |
| 1                  | M12SE        | 21:44      | BO        | CORE             |               | 02           | 48 24.03               | 123 23.76   | 66           | 66        |                |              |               |                | 4 Attempts <10cm     |
| 1                  | M16SE        | 22:16      | BO        | CORE             |               | 03           | 48 23.86               | 123 23.54   | 63           | 63        |                |              |               |                | 13cm<br>gravel       |
| 1                  | M12NE        | 22:37      | BO        | CORE             |               | 04           | 48 24.38               | 123 24.01   | 52           | 52        |                |              |               |                |                      |
| 2                  | SOGS         | 1526       | BE        | ROS              |               | 05           | 49 1.532               | 123 25.874  | 317          |           | 1-24           | 24           |               |                | -1m pressure offset  |
|                    |              | 1533       | BO        |                  |               |              | 49° 14.56              | 123 25.     |              | 312       | 5 mob          |              |               |                |                      |
|                    |              | 1551       | EN        |                  |               |              |                        |             |              |           |                |              |               |                |                      |
|                    | SOGS-L       | 1616       |           | MOR              |               | 06           | 49° 01.429             | 123° 25.824 | 315          |           |                |              |               |                | Recovery             |
| 3                  | SOGN         | 1534       | BE        | ROS              |               | 07           | 49° 50.150             | 124 52.084  | 337          |           | 45-68          | 24           |               |                |                      |
|                    |              | 1541       | BO        |                  |               |              | 49° 50.146             | 124 52.069  |              | 326       |                |              |               |                | 4.4 mob              |
|                    |              | 1557       | EN        |                  |               |              | 49° 50.147             | 124° 52.081 |              |           |                |              |               |                | -1m pressure offset  |
| 3                  | SOGN         | 21:21      |           | MOR              |               | 08           | 49 50.175              | 124 52.237  | 334          |           |                |              |               |                | Deploy m             |
| 4                  | FR1          | 14:28      | BO        | ROS              |               | 09           | 49 6.822               | 123 16.667  | 10           |           | 25-26          | 2            |               |                | Surface Samples only |
|                    | FR2          | 1447       | BO        | ROS              |               | 10           | 49 6.188               | 123 18.042  | 10           |           | 27-28          | 2            |               |                |                      |
|                    | FR3          | 1502       | BO        | ROS              |               | 11           | 49 6.359               | 123 19.580  | 89           |           | 29-30          | 2            |               |                |                      |
|                    | FR4          | 1514       | BO        | ROS              |               | 12           | 49 6.624               | 123 20.963  | 147          |           | 31-32          | 2            |               |                |                      |
|                    | FR5          | 1525       | BO        | ROS              |               | 13           | 49° 7.037              | 123 22.372  | 182          |           | 33-34          | 2            |               |                |                      |
|                    | FR6          | 1538       | BO        | ROS              |               | 14           | 49 7.355               | 123 23.761  | 288          | 4?        | 35-36          | 2            |               |                |                      |

## Cast Type:

BOT = Bottle cast, no CTD  
 CTD = CTD without Rosette  
 ROS = Rosette plus CTD  
 SET = Fish Set

USW = Sea Water Loop

MOR = Mooring  
 NET = Plankton Net Haul  
 DRF = Drifter

## Bottle Firing Method:

US = Up / Stop  
 UN = Up / No stop  
 DN = Down / No stop

Notes:

## Time Code:

BE = Beginning Time of Cast  
 BO = Bottom Time of Cast  
 EN = End Time of Cast

DE = Deployment Time

MR = Messenger Release Time

RE = Recover Mooring Time

Transmissometer to be cleaned before each cast, do not use Ammonia products

Produced by the Water Properties Group, IOS

WaterProperties.ca  
 Version: 16 April 2010

Quite an active surface - nereids, hermit crab in Fusitriton shell, worms  
- quite sandy, compact, could not get it to penetrate > 10 cm into sediment  
4x - then kept what we got and moved on.

- lots of scallop hash.

- second M12SE = 13 cm - quite active too shell hash, small crabs

M16SE - very gravelly - lots of shell: tube worm hash - no core = move to next site

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**Version: 16 April 2010**

5045L - Mooring Recovery April 2, 2012

*This page is for any notes or observations*

0800 PBT - Range 1688 - 334 334 - proceed to CTD

0915 - Range 1688 396 396 380.

0916 - Range 382  
- Releas. 1655 - 383 Execute

0917 - On Surface

SOGN-L Mooring Recovery

April 3, 2012

*This page is for any notes or observations*

0815<sup>POT</sup> - Range 169C - 368 - 370

- Do CTD ~ 1.5 cables away

0917 - Range 169C - 534 534

0918 - 169C +1655 - 534 - 534 Release

0919 - On Surface

0950 - On deck