

# DAILY LOG BOOK

MISSION  
NUMBER

2005-03

DATE:

From:

MAR 2/05

to:

MAR 28/05

VESSEL:

W.E. RICKER

PROJECT:

WELCH/TRUDEL Hi SEAS SALMON

INSTITUTE OF OCEAN SCIENCES  
OCEAN SCIENCES AND PRODUCTIVITY DIVISION  
SIDNEY, BC, CANADA

Captain: SURAJ GULATI First Officer: JULIE GASCON  
Second Officer: DAVE BUCK Third Officer: ZIBIC

Mission Participants / Agencies: PPS / 165

|                       |       |              |
|-----------------------|-------|--------------|
| Scientific Personnel: |       | Party Chief: |
| Name                  | Watch | Cabin        |
| MARY THIESS           |       | MARC TRUDEL  |

MARY THIESS

JOHN MORRIS

TYLER ZUBKOWSKI

HUGO M. ACLEAM

**Second leg of Mission:**

Name \_\_\_\_\_ Party Chief: \_\_\_\_\_

\_\_\_\_\_ West-1 Cr. \_\_\_\_\_

### Data logging computer:

Data acquisition program: WIN SAVE 32

CTD deck unit make: SBG model: 11+ serial number: 11819377-6471

Primary CTD

Make: SBC model: 911 500

Primary temperature serial number: 7663

Primary conductivity serial number: 2700

Secondary temperature serial number: 2095

Secondary conductivity serial number: 1764

Transmissometer:

| Fluorometer: Model | SEAPOINT | s/n: |
|--------------------|----------|------|
|                    |          | 17   |
| Cable tray: Model  | SEAPOINT | s/n: |
|                    |          | 15   |

Oxygen sensor: 222 s/n: 1040.13  
 Cable galli: 222 s/n: 1040.13  
 Model: 222 s/n: 1040.13

PAR sensor: \_\_\_\_\_ Model: \_\_\_\_\_ s/n: \_\_\_\_\_

Other sensors: \_\_\_\_\_ s/n: \_\_\_\_\_  
 \_\_\_\_\_ model: \_\_\_\_\_ s/n: \_\_\_\_\_

Other sensors: \_\_\_\_\_ s/n: \_\_\_\_\_  
 \_\_\_\_\_ s/n: \_\_\_\_\_

Other sensors: \_\_\_\_\_ s/n: \_\_\_\_\_  
 \_\_\_\_\_ s/n: \_\_\_\_\_

Other sensors: \_\_\_\_\_ s/n: \_\_\_\_\_  
 \_\_\_\_\_ s/n: \_\_\_\_\_

## Secondary CTD

Make: \_\_\_\_\_ model: \_\_\_\_\_ serial number: \_\_\_\_\_

Primary temperature serial number: \_\_\_\_\_

Primary conductivity serial number: \_\_\_\_\_

Secondary temperature serial number:

Secondary conductivity serial number: \_\_\_\_\_

Transmissometer: \_\_\_\_\_  
Model: \_\_\_\_\_

Fluorometer: Model \_\_\_\_\_ s/n: \_\_\_\_\_  
Cable gain: \_\_\_\_\_

Oxygen sensor: \_\_\_\_\_  
 Model: \_\_\_\_\_  
 s/n: \_\_\_\_\_

| PAR sensor: | Model: | s/n: |
|-------------|--------|------|
| PAR sensor: | Model: | s/n: |

Other sensors: \_\_\_\_\_ s/n: \_\_\_\_\_  
 \_\_\_\_\_ s/n: \_\_\_\_\_  
 \_\_\_\_\_ s/n: \_\_\_\_\_

Other sensors: \_\_\_\_\_ s/n: \_\_\_\_\_  
 \_\_\_\_\_ s/n: \_\_\_\_\_  
 \_\_\_\_\_ s/n: \_\_\_\_\_

Other sensors: \_\_\_\_\_ s/n: \_\_\_\_\_

Other sensors: \_\_\_\_\_ s/n: \_\_\_\_\_

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

## DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

| Month <i>MARCH</i> |              |            |           | Year <i>2005</i> |               |              | Ship <i>W.E. RICKER</i> |            |              |           | Cruise ID <i>2005-03</i> |              |               |                |                        |
|--------------------|--------------|------------|-----------|------------------|---------------|--------------|-------------------------|------------|--------------|-----------|--------------------------|--------------|---------------|----------------|------------------------|
| Day                | Station Name | Time (UTC) | Time Code | Cast Type        | Firing Method | Event Number | Position                |            | Bottom Depth | Max Depth | Sample Numbers           | # of Bottles | Watch keepers | Trans. cleaned | Comments               |
|                    |              |            |           |                  |               |              | Latitude                | Longitude  |              |           |                          |              |               |                |                        |
| 3                  | TEST         |            | BE        | CTD              |               |              | 49 02 57                | 123 28 64  | 335          |           |                          |              |               |                | TEST                   |
|                    |              |            | BO        |                  |               |              |                         |            |              | 50        |                          |              |               |                | NOT STORED ON DIS      |
|                    |              | 2039       | EN        |                  |               |              | 49 02 59                | 123 28 66  |              |           |                          |              |               |                |                        |
| 4                  | IV1 01       | 1458       | BE        | CTD              |               | 001          | 48 58 04                | 125 06 50  | 93           |           |                          | 1            | H.M.          | ✓              | T: 8.62 S: 29.56       |
|                    |              | 1500       | BO        |                  |               |              | 48 58 02                | 125 06 52  |              | 85        |                          |              |               |                | BOT@10m - SAL/CHL/MUTS |
|                    |              | 1503       | EN        |                  |               |              | 48 58 01                | 125 06 53  |              |           |                          |              |               |                | * →                    |
|                    |              | 1522       | BE        | NET              |               | 002          | 48 57.98                | 125 06.52  |              | 85        |                          |              |               |                | BONGO                  |
|                    |              | 1548       | BE        | TRAWL            |               | 003          | 48 57.161               | 125 07.420 | 91           |           | SURFACE                  | Tow          |               |                |                        |
| 4                  | IV1 02       | 1655       | BE        | CTD              |               | 004          | 48 54 98                | 125 12 20  | 97           |           |                          | 1            |               | ✓              | P: 8.79 S: 26.03       |
|                    |              | 1658       | BO        |                  |               |              | 48 54 99                | 125 12 20  |              | 90        |                          |              |               |                | BOT@10m - SAL/CHL/MUTS |
|                    |              | 1701       | EN        |                  |               |              | 48 54 99                | 125 12 20  |              |           |                          |              |               |                | NO BONGO - WINCH       |
|                    |              | 1713       | BE        | TRAWL            |               | 005          | 48 54.542               | 125 12.781 | 95           |           | SURFACE                  | Tow          |               |                | BUSTED * →             |
| 4                  | IV1 03       | 2014       | BE        | CTD              |               | 006          | 48 55 67                | 125 15 59  | 98           |           |                          | 1            |               |                | T: 8.47 S: 30.72       |
|                    |              | 2016       | BO        |                  |               |              | 48 55 67                | 125 15 61  |              | 90        |                          |              |               |                | BOT@10m - SAL/CHL/MUTS |
|                    |              | 2020       | EN        |                  |               |              | 48 55 67                | 125 15 64  |              |           |                          |              |               |                | NO BONGO STILL         |
|                    |              | 2031       | BE        | TRAWL            |               | 007          | 48 50.121               | 125 15.6   | 100          |           | SURFACE                  | Tow          |               |                | * →                    |

## Cast type:

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 MOR = mooring  
 NET = net haul  
 DRF = drifter

## bottle firing method:

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AT SURFACE - SALINITY BETWEEN 2 SENSORS CAN BE OFF BY 10.0 ppm usually 1.5 → 2.0 @ 2 m  
AND AT 0.02 BY 5 m BELOW SURFACE - PRIMARY SENSOR IS ALWAYS HIGHER - THE REST OF THE CAST  
LOOKS GOOD.

## DAILY LOG

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| Day         | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position  |                   | Bottom Depth | Max Depth | Sample Numbers | # of Bottles      | Watch keepers | Trans. cleaned | Comments                 |
|             |              |            |           |           |               |              | Latitude  | Longitude         |              |           |                |                   |               |                |                          |
| 4           | VI 01        | 2133       | BE        | CTD       |               | 008          | 48 46 34  | 125 17 34         | 84           |           |                | 1                 | H.M.          |                | T: 9.25 S: 31.91         |
|             |              | 2135       | BO        |           |               |              | 48 46 34  | 125 17 39         |              | 75        |                |                   |               |                | BOT @ 10m - SAL/CHL/HUTS |
|             |              | 2137       | EN        |           |               |              | 48 46 38  | 125 17 95         |              |           |                |                   |               |                | NO BONGO                 |
|             |              | 2150       | BE        | TRAWL     |               | 009          | 48 46.138 | 125.19.101        | 84           |           | SURFACE        | Tow               |               |                |                          |
| 4           | VI 02        | 2252       | BE        | CTD       |               | 010          | 48 43 87  | 125 26 17         | 110          |           |                |                   |               |                | T: 9.41 S: 32.16         |
|             |              | 2254       | BO        |           |               |              | 48 43 88  | 125 26 20         |              | 100       |                |                   |               |                | BOT @ 10m - SAL/CHL/HUTS |
|             |              | 2257       | EN        |           |               |              | 48 43 88  | 125 26 21         |              |           |                | 1                 |               |                | NO BONGO STILL           |
|             |              | 2308       | BE        | TRAWL     |               | 011          | 48 43 628 | 125 27.106        | 120.         |           | SURFACE        | Tow               |               |                |                          |
| 5           | VI 03        | 0009       | BE        | CTD       |               | 012          | 48 41 72  | 125 33 65         | 70           |           |                | 1                 |               |                | T: 9.22 S: 32.16         |
|             |              | 0010       | BO        |           |               |              | 48 41 74  | 125 33 70         |              | 60        |                |                   |               |                | BOT @ 10m - SAL/CHL/HUTS |
|             |              | 0012       | EN        |           |               |              | 48 41 77  | 125 33 65         |              |           |                |                   |               |                | BONGO WINCH FIXED        |
|             |              |            | BE        | NET       |               | 013          | 48 41 .80 | 125 33 70         |              | 58        |                |                   |               |                | BONGO                    |
|             |              | 0041       | BE        | TRAWL     |               | 014          | 48 41.78  | 125 34.624        | 122.         |           | SURFACE        | Tow               |               |                |                          |

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| Day   | Station Name    | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position  |            | Bottom Depth | Max Depth | Sample Numbers | # of Bottles | Watch keepers | Trans. cleaned | Comments                 |
|       |                 |            |           |           |               |              | Latitude  | Longitude  |              |           |                |              |               |                |                          |
| 5     | V1 04           | 0254       | BE        | CTD       |               | 015          | 48 45 43  | 125 48 39  | 80/77        |           |                | 1            | H.M           |                | T: 9.40 S: 32.19         |
|       | 2 <sup>nd</sup> | 0255       | BO        |           |               |              | 48 45 47  | 125 48 43  |              | 70        |                |              |               |                | BOT @ 10m - SAL/CHL/NUIS |
|       |                 | 0301       | EN        |           |               |              | 48 45 57  | 125 48 56  |              |           |                |              |               |                | * →                      |
|       | 3 <sup>rd</sup> | 0308       | BE        | NET       |               | 016          | 48 46 66  | 125 48 60  |              |           |                |              |               |                | BONGO                    |
|       | 1 <sup>st</sup> | 0204       | BE        | TRAWL     |               | 017          | 48 42.934 | 125 44.398 | 90           |           |                |              |               |                |                          |
|       |                 |            |           |           |               |              |           |            |              |           |                |              |               |                |                          |
| 5     | V1 05           | 1458       | BE        | CTD       |               | 018          | 49 05 98  | 125 59 90  | 39           |           |                | 1            |               | ✓              | T: 8.20 S: 31.07         |
|       |                 | 1459       | BO        |           |               |              | 49 06 00  | 125 59 89  |              |           |                |              |               |                | BOT @ 10m - SAL/CHL/NUIS |
|       |                 | 1500       | EN        |           |               |              | 49 06 01  | 125 59 88  |              |           |                |              |               |                |                          |
|       |                 | 1507       | BE        | NET       |               | 019          | 49 06 06  | 125 59 81  |              |           |                |              |               |                | BONGO                    |
|       |                 | 1528       | BE        | TRAWL     |               | 020          | 49 05.116 | 126 01.640 | 54           |           | SURFACE        | Tow.         |               |                |                          |
|       |                 |            |           |           |               |              |           |            |              |           |                |              |               |                |                          |
| 5     | V1 06           | 1630       | BE        | CTD       |               | 021          | 49 02 67  | 126 06 52  | 60/58        |           |                | 1            |               |                | T: 8.20 S: 31.05         |
|       |                 | 1631       | BO        |           |               |              | 49 02 69  | 126 06 54  |              | 50        |                |              |               |                | BOT @ 10m - SAL/CHL/NUIS |
|       |                 | 1632       | EN        |           |               |              | 49 02 72  | 126 06 55  |              |           |                |              |               |                |                          |
|       |                 | 1637       | BE        | NET       |               | 022          | 49 02 78  | 126 06 53  |              |           |                |              |               |                | BONGO                    |
|       |                 | 1657       | BE        | TRAWL     |               | 023          | 49 02 533 | 126 07.422 | 54           |           | SURFACE        | Tow.         |               |                |                          |
|       |                 |            |           |           |               |              |           |            |              |           |                |              |               |                |                          |
|       |                 |            |           |           |               |              |           |            |              |           |                |              |               |                |                          |

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\* V104 - Lost 1.7 l NISKIN (BROKE APART) RECAST TO 15m FOR SAMPLE - NEW NISKIN

## DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

| Month |              |            |           | Year      |               |              | Ship         |            |              | Cruise ID |                |              |               |                |                          |
|-------|--------------|------------|-----------|-----------|---------------|--------------|--------------|------------|--------------|-----------|----------------|--------------|---------------|----------------|--------------------------|
| MARCH |              |            |           | 2005      |               |              | W. E. RICHER |            |              | 2005-03   |                |              |               |                |                          |
| Day   | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position     |            | Bottom Depth | Max Depth | Sample Numbers | # of Bottles | Watch keepers | Trans. cleaned | Comments                 |
|       |              |            |           |           |               |              | Latitude     | Longitude  |              |           |                |              |               |                |                          |
| 5     | V107         | 1803       | BC        | CTD       |               | 024          | 48 59 00     | 126 12 18  | 92           |           |                | 1            | H.M.          |                | T: 8.67 S: 31.73         |
|       |              | 1805       | BO        |           |               |              | 48 59 03     | 126 12 20  |              | 85        |                |              |               |                | BOT @ 10m - SAL/CAL/NOTS |
|       |              | 1806       | EN        |           |               |              | 48 59 05     | 126 12 22  |              |           |                |              |               |                |                          |
|       |              | 1811       | BC        | NET       |               | 025          | 48 59 09     | 126 12 26  |              | 92        |                |              |               |                | BONGO                    |
|       |              | 1832       | BC        | TRAWL     |               | 026          | 48 58 696    | 126.13 670 | 119          |           | SURFACE        | Tow          |               |                |                          |
|       |              |            |           |           |               |              |              |            |              |           |                |              |               |                |                          |
| 5     | V104         | 2224       | BC        | CTD       |               | 027          | 49 21 40     | 126 14 69  | 27           |           |                | 1            |               |                | T: 8.79 S: 26.76         |
|       |              | 2225       | BO        |           |               |              | 49 21 39     | 126 14 70  |              | 22        |                |              |               |                | BOT @ 10m - SAL/CAL/NOTS |
|       |              | 2227       | EN        |           |               |              | 49 21 38     | 126 14 71  |              |           |                |              |               |                |                          |
|       |              | 2234       | BC        | NET       |               | 028          | 49 21 39     | 126 14 66  |              |           |                |              |               |                | BONGO                    |
|       |              | 2251       | BC        | TRAWL     |               | 029          | 49 22 612    | 126 14 518 |              |           | SURFACE        | Tow          |               |                |                          |
|       |              |            |           |           |               |              |              |            |              |           |                |              |               |                |                          |
| 6     | V105         | 0000       | BC        | CTD       |               | 030          | 49 29 73     | 126 17 41  | 95           |           |                | 1            |               |                | T: 8.81 S: 28.20         |
|       |              | 0002       | BO        |           |               |              | 49 29 74     | 126 17 41  |              | 85        |                |              |               |                | BOT @ 10m - SAL/CAL/NOTS |
|       |              | 0007       | EN        |           |               |              | 49 29 74     | 126 17 40  |              |           |                |              |               |                |                          |
|       |              | 0011       | BC        | NET       |               | 031          | 49 29 70     | 126 17 40  |              |           |                |              |               |                | BONGO                    |
|       |              | 0030       | BC        | TRAWL     |               | 032          | 49 29 316    | 126.17 152 | 115          |           | SURFACE        | Tow          |               |                |                          |
|       |              |            |           |           |               |              |              |            |              |           |                |              |               |                |                          |
|       |              |            |           |           |               |              |              |            |              |           |                |              |               |                |                          |

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| Day         | Station Name    | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position         |            | Bottom Depth | Max Depth | Sample Numbers    | # of Bottles | Watch keepers | Trans. cleaned | Comments              |
|             |                 |            |           |           |               |              | Latitude         | Longitude  |              |           |                   |              |               |                |                       |
| 6           | 1V1 06          | 0238       | BC        | CTD       |               | 033          | 49 23 42         | 126 10 19  | 82           |           |                   | 1            | H.M.          |                | T: 8.62 S: 28.61      |
|             | 2 <sup>ND</sup> | 0239       | BO        |           |               |              | 49 23 42         | 126 10 20  |              | 75        |                   |              |               |                | BOTEION - SA/CHL/NOTS |
|             |                 | 0241       | CH        |           |               |              | 49 23 42         | 126 10 21  |              |           |                   |              |               |                |                       |
|             | 3 <sup>RD</sup> | 0247       | BC        | NET       |               | 034          | 49 23 42         | 126 10 22  |              | 70        |                   |              |               |                | BONGO                 |
|             | 1 <sup>ST</sup> | 0246       | BC        | TRAWL     |               | 035          | 49 24 629        | 126 14 406 | 58           |           | SURFACE           | Tow          |               |                |                       |
| 6           | EP 01           | 1455       | BC        | CTD       |               | 036          | 49 21 08         | 126 31 58  | 34           |           |                   | 1            |               | ✓              | T: 8.28 S: 30.69      |
|             |                 | 1456       | BO        |           |               |              | 49 21 08         | 126 31 62  |              | 30        |                   |              |               |                | BOTEION SA/CHL/NOTS   |
|             |                 | 1459       | CH        |           |               |              | 49 21 08         | 126 31 72  |              |           |                   |              |               |                | *                     |
|             |                 | 1503       | BE        | NET       |               | 037          | 49 21 66         | 126 31 77  |              |           |                   |              |               |                | BONGO                 |
|             |                 | 1521       | BC        | TRAWL     |               | 038          | 49 20 223        | 126 33 518 | 57           |           | SURFACE           | Tow          |               |                |                       |
| 6           | EP 02           | 1611       | BC        | CTD       |               | 039          | 49 18 46         | 126 38 14  | 99           |           |                   | ○            |               |                | T: 8.32 S: 31.43      |
|             |                 | 1613       | BO        |           |               |              | 49 18 45         | 126 38 20  |              | 95        |                   |              |               |                | NO WATER SAMPLE       |
|             |                 | 1616       | CH        |           |               |              | 49 18 46         | 126 38 24  |              |           |                   |              |               |                |                       |
|             |                 | 1620       | BC        | NET       |               | 040          | 49 18 45         | 126 38 25  |              | 90        |                   |              |               |                | BONGO                 |
|             |                 | 1642       | BC        | TRAWL     |               | 041          | 49 17 988        | 126 39 222 | 102          |           | SURFACE           | Tow          |               |                |                       |
|             |                 |            |           |           |               |              |                  |            |              |           |                   |              |               |                |                       |
|             |                 |            |           |           |               |              |                  |            |              |           |                   |              |               |                |                       |

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\* GP 01 - LOST 2<sup>ND</sup> NISKIN - BROKE @ CLAMPS AGAIN - 2<sup>ND</sup> IN 2 DAYS ?

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|             |              |            |           |           |               |              | Latitude  | Longitude         |              |           |                   |              |               |                |                  |
| 6           | EP 03        | 1728       | BC        | CTD       |               | 042          | 49 16 07  | 126 41 73         | 115          |           |                   | 0            | H.M.          |                | T: 8.46 S: 31.57 |
|             |              | 1730       | BO        |           |               |              | 49 16 10  | 126 41 70         |              | 105       |                   |              |               |                | NO SAMPLES       |
|             |              | 1731       | GN        |           |               |              | 49 16 11  | 126 41 68         |              |           |                   |              |               |                |                  |
|             |              | 1738       | BC        | NET       |               | 043          | 49 16 14  | 126 41 71         |              | 103       |                   |              |               |                | BONGO            |
|             |              | 1759       | BC        | TRAWL     |               | 044          | 49 15 792 | 126 42 623        | 135          |           | SURFACE           | Tow          |               |                |                  |
|             |              |            |           |           |               |              |           |                   |              |           |                   |              |               |                |                  |
| 6           | EP 04        | 1846       | BC        | CTD       |               | 045          | 49 14 81  | 126 46 95         | 125          |           |                   | 0            |               |                | T: 8.45 S: 31.60 |
|             |              | 1849       | BO        |           |               |              | 49 14 85  | 126 46 97         |              | 120       |                   |              |               |                | NO SAMPLES       |
|             |              | 1851       | GN        |           |               |              | 49 14 88  | 126 46 99         |              |           |                   |              |               |                |                  |
|             |              | 1856       | BC        | NET       |               | 046          | 49 14 94  | 126 47 01         |              | 110       |                   |              |               |                | BONGO            |
|             |              | 1917       | BC        | TRAWL     |               | 047          | 49 14 644 | 126 47 596        | 156          |           | SURFACE           | Tow          |               |                |                  |
|             |              |            |           |           |               |              |           |                   |              |           |                   |              |               |                |                  |
| 6           | 1V1 07       | 2331       | BC        | CTD       |               | 048          | 49 46 92  | 126 38 90         | 120          |           |                   | 0            |               |                | T: 8.77 S: 28.88 |
|             |              | 2333       | BO        |           |               |              | 49 46 93  | 126 38 91         |              | 110       |                   |              |               |                | NO SAMPLES       |
|             |              | 2335       | GN        |           |               |              | 49 46 93  | 126 38 91         |              |           |                   |              |               |                |                  |
|             |              | 2342       | BC        | NET       |               | 049          | 49 46 06  | 126 38 89         |              |           |                   |              |               |                | BONGO            |
|             |              | 0002       | BC        | TRAWL     |               | 050          | 49 47 723 | 126 39 170        | 127          |           | SURFACE           | Tow          |               |                |                  |
|             |              |            |           |           |               |              |           |                   |              |           |                   |              |               |                |                  |
|             |              |            |           |           |               |              |           |                   |              |           |                   |              |               |                |                  |

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## DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

| Month <i>MARCH</i> |              |            |           | Year <i>2005</i> |               |              | Ship <i>W. E. RICKER</i> |            |              |           | Cruise ID <i>2005-03</i> |              |               |                |                  |
|--------------------|--------------|------------|-----------|------------------|---------------|--------------|--------------------------|------------|--------------|-----------|--------------------------|--------------|---------------|----------------|------------------|
| Day                | Station Name | Time (UTC) | Time Code | Cast Type        | Firing Method | Event Number | Position                 |            | Bottom Depth | Max Depth | Sample Numbers           | # of Bottles | Watch keepers | Trans. cleaned | Comments         |
|                    |              |            |           |                  |               |              | Latitude                 | Longitude  |              |           |                          |              |               |                |                  |
| 7                  | 1V1 08       | 0139       | BC        | CTD              |               | 051          | 49 53 69                 | 126 39 51  | 182          |           |                          | 0            | H.M.          |                | T: 8.94 S: 26.72 |
|                    |              | 0142       | BO        |                  |               |              | 49 53 66                 | 126 39 46  |              | 175       |                          |              |               |                | NO SAMPLES       |
|                    |              | 0145       | EN        |                  |               |              | 49 53 66                 | 126 39 44  |              |           |                          |              |               |                |                  |
|                    |              | 0151       | BE        | NET              |               | 052          | 49 53 67                 | 126 39 36  |              | 150       |                          |              |               |                | BONGO            |
|                    |              | 02 10      | BE        | TRAWL            |               | 053          | 49 53 134                | 126 39 419 | 174          |           | SURFACE                  | Tow.         |               |                |                  |
| 7                  | 1V109        | 1456       | BC        | CTD              |               | 054          | 49 52 24                 | 126 45 21  | 254          |           |                          | 0            |               | ✓              | T: 8.71 S: 29.19 |
|                    |              | 1500       | BO        |                  |               |              | 49 52 24                 | 126 45 20  |              | 200       |                          |              |               |                | NO SAMPLES       |
|                    |              | 1503       | EN        |                  |               |              | 49 52 23                 | 126 45 19  |              |           |                          |              |               |                |                  |
|                    |              | 1508       | BC        | NET              |               | 055          | 49 52 22                 | 126 45 16  |              | 150       |                          |              |               |                | BONGO            |
|                    |              | 1531       | BC        | TRAWL            |               | 056          | 49 52 814                | 126 46 137 | 212          |           | SURFACE                  | Tow.         |               |                |                  |
| 7                  | V1 08        | 1810       | BC        | CTD              |               | 057          | 49 46 99                 | 127 04 21  | 45           |           |                          | 0            |               |                | T: 8.49 S: 30.67 |
|                    |              | 18 11      | BO        |                  |               |              | 49 46 99                 | 127 04 24  |              | 40        |                          |              |               |                | NO SAMPLES       |
|                    |              | 18 12      | EN        |                  |               |              | 49 46 98                 | 127 04 25  |              |           |                          |              |               |                |                  |
|                    |              | 18 16      | BE        | NET              |               | 058          | 49 46 99                 | 127 04 28  |              | 34        |                          |              |               |                | BONGO            |
|                    |              | 18 32      | BE        | TRAWL            |               | 059          | 49 46 864                | 127 05 527 | 43           |           | SURFACE                  | Tow.         |               |                |                  |

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|-------------|--------------|------------|-----------|-----------|---------------|--------------|-----------|------------------|--------------|-----------|----------------|-------------------|---------------|----------------|------------------|
| Day         | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position  |                  | Bottom Depth | Max Depth | Sample Numbers | # of Bottles      | Watch keepers | Trans. cleaned | Comments         |
|             |              |            |           |           |               |              | Latitude  | Longitude        |              |           |                |                   |               |                |                  |
| 7           | VI 09        | 1917       | BE        | CTD       |               | 060          | 49 46 01  | 127 10 72        | 46           |           |                | 0                 | H.M.          |                | T: 8.40 S: 31.01 |
|             |              | 1918       | BO        |           |               |              | 49 46 02  | 127 10 76        |              | 40        |                |                   |               |                | NO SAMPLES       |
|             |              | 1918       | EN        |           |               |              | 49 46 02  | 127 10 77        |              |           |                |                   |               |                |                  |
|             |              | 2002       | BE        | NET       |               | 061          | 49 46 18  | 127 14 68        |              |           |                |                   |               |                | BONGO            |
|             |              | 2018       | BE        | TRAWL     |               | 062          | 49 46 321 | 127 16 254       | 80           |           | SURFACE TOW    |                   |               |                |                  |
| 7           | VI 10        | 2107       | BE        | CTD       |               | 063          | 49 47 26  | 127 21 55        | 79           |           |                | 0                 |               |                | T: 8.90 S: 32.13 |
|             |              | 2109       | BO        |           |               |              | 49 47 27  | 127 21 59        |              | 75        |                |                   |               |                | NO SAMPLES       |
|             |              | 2110       | EN        |           |               |              | 49 47 28  | 127 21 62        |              |           |                |                   |               |                |                  |
|             |              | 2115       | BE        | NET       |               | 064          | 49 47 30  | 127 21 72        |              | 67        |                |                   |               |                | BONGO            |
|             |              | 2132       | BE        | TRAWL     |               | 065          | 49 47 633 | 127 23 159       | 81           |           | SURFACE TOW    |                   |               |                |                  |
| 7           | VI 11        | 2233       | BE        | CTD       |               | 066          | 49 49 07  | 127 30 88        | 75           |           |                | 0                 |               |                | T: 8.78 S: 31.74 |
|             |              | 2235       | BO        |           |               |              | 49 49 07  | 127 30 88        |              | 70        |                |                   |               |                | NO SAMPLES       |
|             |              | 2236       | EN        |           |               |              | 49 49 07  | 127 30 88        |              |           |                |                   |               |                | * →              |
|             |              | 2245       | BE        | NET       |               | 067          | 49 49 01  | 127 30 83        |              | 65        |                |                   |               |                | BONGO            |
|             |              | 2301       | BE        | TRAWL     |               | 068          | 49 49 106 | 127 32 599       | 81           |           | SURFACE TOW    |                   |               |                |                  |
|             |              |            |           |           |               |              |           |                  |              |           |                |                   |               |                |                  |
|             |              |            |           |           |               |              |           |                  |              |           |                |                   |               |                |                  |

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\* - CLEARED PUMP TUBE ON CTD - SAL SENSORS NOW WITHIN 0.001 OF EACH OTHER @ SURFACE

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|-------------|--------------|------------|-----------|-----------|---------------|--------------|-----------|------------------|--------------|-----------|----------------|-------------------|---------------|----------------|------------------|
| Day         | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position  |                  | Bottom Depth | Max Depth | Sample Numbers | # of Bottles      | Watch keepers | Trans. cleaned | Comments         |
|             |              |            |           |           |               |              | Latitude  | Longitude        |              |           |                |                   |               |                |                  |
| 7           | VI 12        | 0005       | BE        | TRAWL     |               | 069          | 49 52.298 | 127 40 433       | 152          |           | SURFACE TOW    | Q                 | H.M.          |                | TRAWL ONLY       |
| 8           | VI 13        | 0232       | BE        | CTD       |               | 070          | 50 02 43  | 127 56 49        | 680          |           |                | 0                 |               |                | T: 8.41 S: 31.14 |
|             | 2ND          | 0236       | BO        |           |               |              | 50 02 43  | 127 56 48        |              | 200       |                |                   |               |                | NO SAMPLE        |
|             |              | 0239       | EN        |           |               |              | 50 02 45  | 127 56 47        |              |           |                |                   |               |                |                  |
|             | 3RD          | 0247       | BE        | NET       |               | 071          | 50 02 37  | 127 56 42        |              | 150       |                |                   |               |                | BONGO            |
|             | 1ST          | 0134       | BE        | TRAWL     |               | 072          | 50 00.734 | 127 51 960       | 890          |           | SURFACE TOW    |                   |               |                |                  |
| 8           | VI 10        | 1458       | BE        | CTD       |               | 073          | 50 36 58  | 127 49 74        | 56           |           |                | 0                 |               | ✓              | T: 8.76 S: 21.31 |
|             |              | 1459       | BO        |           |               |              | 50 36 57  | 127 49 73        |              | 45        |                |                   |               |                | NO SAMPLES       |
|             |              | 1500       | EN        |           |               |              | 50 36 57  | 127 49 73        |              |           |                |                   |               |                |                  |
|             |              | 1505       | BE        | NET       |               | 074          | 50 36 57  | 127 49 75        |              |           |                |                   |               |                | BONGO            |
|             |              | 1521       | BE        | TRAWL     |               | 075          | 50 36 414 | 127 48 875       | 68           |           | SURFACE TOW    |                   |               |                |                  |
| 8           | VI 11        | 1614       | BE        |           |               | 076          | 50 35 74  | 127 43 84        | 83           |           |                | 0                 |               |                | T: 8.94 S: 24.51 |
|             |              | 1616       | BO        |           |               |              | 50 35 74  | 127 43 85        |              | 75        |                |                   |               |                | NO SAMPLES       |
|             |              | 1617       | EN        |           |               |              | 50 35 75  | 127 43 86        |              |           |                |                   |               |                |                  |
|             |              | 1622       | BE        |           |               | 077          | 50 35 76  | 127 43 94        |              | 70        |                |                   |               |                | BONGO            |
|             |              | 1639       | BE        |           |               | 078          | 50 35 698 | 127 43 118       | 88           |           | SURFACE TOW    |                   |               |                |                  |

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|-------------|--------------|------------|-----------|-----------|---------------|--------------|-----------|-------------------|--------------|-----------|----------------|-------------------|---------------|----------------|------------------|
| Day         | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position  |                   | Bottom Depth | Max Depth | Sample Numbers | # of Bottles      | Watch keepers | Trans. cleaned | Comments         |
|             |              |            |           |           |               |              | Latitude  | Longitude         |              |           |                |                   |               |                |                  |
| 8           | 101 12       | 1733       | BE        | CTD       |               | 079          | 50 34 96  | 127 35 89         | 89           |           |                | 0                 | H.M.          |                | T: 8.80 S: 26.72 |
|             |              | 1735       | BO        |           |               |              | 50 34 96  | 127 35 89         |              | 80        |                |                   |               |                | NO SAMPLE        |
|             |              | 1736       | EN        |           |               |              | 50 34 96  | 127 35 89         |              |           |                |                   |               |                |                  |
|             |              | 1740       | BE        | NET       |               | 080          | 50 34 97  | 127 35 90         | 91           | 81        |                |                   |               |                | BONGO            |
|             |              | 1758       | BE        | TRAWL     |               | 091          | 50 34 685 | 127 35 185        | 96           |           | SURFACE TOW    |                   |               |                |                  |
| 8           | 101 13       | 2006       | BE        | CTD       |               | 082          | 50 30 09  | 127 35 56         | 94           |           |                | 0                 |               |                | T: 8.73 S: 28.77 |
|             |              | 2008       | BO        |           |               |              | 50 30 09  | 127 35 55         |              | 85        |                |                   |               |                | NO SAMPLE        |
|             |              | 2009       | EN        |           |               |              | 50 30 09  | 127 35 56         |              |           |                |                   |               |                |                  |
|             |              | 2014       | BE        | NET       |               | 083          | 50 30 09  | 127 35 58         |              | 76        |                |                   |               |                | BONGO            |
|             |              | 2031       | BE        | TRAWL     |               | 084          | 50 29 758 | 127 34 652        |              |           | SURFACE TOW    |                   |               |                |                  |
| 8           | 101 14       | 2157       | BE        | CTD       |               | 085          | 50 31 68  | 127 39 33         | 115          |           |                | 0                 |               |                | T: 8.76 S: 28.75 |
|             |              | 2159       | BO        |           |               |              | 50 31 68  | 127 39 38         |              | 105       |                |                   |               |                | NO SAMPLES       |
|             |              | 2202       | EN        |           |               |              | 50 31 67  | 127 39 39         |              |           |                |                   |               |                |                  |
|             |              | 2207       | BE        | NET       |               | 086          | 50 31 60  | 127 39 54         |              | 86        |                |                   |               |                | BONGO            |
|             |              | 2224       | BE        | TRAWL     |               | 087          | 50 30 986 | 127 41 099        | 133          |           | SURFACE TOW    |                   |               |                |                  |

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|--------------------|--------------|------------|-----------|------------------|---------------|--------------|----------|-------------------------|--------------|-----------|----------------|--------------------------|---------------|----------------|------------------|
| Day                | Station Name | Time (UTC) | Time Code | Cast Type        | Firing Method | Event Number | Position |                         | Bottom Depth | Max Depth | Sample Numbers | # of Bottles             | Watch keepers | Trans. cleaned | Comments         |
|                    |              |            |           |                  |               |              | Latitude | Longitude               |              |           |                |                          |               |                |                  |
| 8                  | 101 15       | 2318       | BE        | CTD              |               | 088          | 50 28 78 | 127 47 52               | 144          |           |                | 0                        | H.M.          |                | T: 8.76 S: 28.77 |
|                    |              | 2321       | BO        |                  |               |              | 50 28 74 | 127 47 56               |              | 135       |                |                          |               |                | NO SAMPLES       |
|                    |              | 2323       | EN        |                  |               |              | 50 28 73 | 127 47 57               |              |           |                |                          |               |                |                  |
|                    |              | 2329       | BE        | NET              |               | 089          | 50 28 68 | 127 47 60               |              | 136       |                |                          |               |                | BONGO            |
|                    |              | 2346       | BE        | TRAWL            |               | 090          | 50 28 63 | 127 48 00               | 140          |           | SURFACE TOW    |                          |               |                |                  |
| <del>8</del>       |              |            |           |                  |               |              |          |                         |              |           |                |                          |               |                |                  |
| 9                  | 101 16       | 1705       | BE        | CTD              |               | 091          | 50 28 27 | 127 53 25               | 132          |           |                | 0                        |               | ✓              | T: 8.64 S: 28.34 |
|                    |              | 1708       | BO        |                  |               |              | 50 28 27 | 127 53 23               |              | 125       |                |                          |               |                | NO SAMPLE        |
|                    |              | 1710       | EN        |                  |               |              | 50 28 28 | 127 53 22               |              |           |                |                          |               |                |                  |
|                    |              | 1714       | BE        | NET              |               | 092          | 50 28 30 | 127 53 18               |              | 125       |                |                          |               |                | BONGO            |
|                    |              | 1734       | BE        | TRAWL            |               | 093          | 50 28 28 | 127 54 16               | 212          |           | SURFACE TOW    |                          |               |                |                  |
| <del>9</del>       |              |            |           |                  |               |              |          |                         |              |           |                |                          |               |                |                  |
| 9                  | 101 14       | 1828       | BE        | CTD              |               | 094          | 50 25 24 | 127 58 92               | 131          |           |                | 0                        |               |                | T: 8.57 S: 30.41 |
|                    |              | 1831       | BO        |                  |               |              | 50 25 22 | 127 58 89               |              | 125       |                |                          |               |                | NO SAMPLES       |
|                    |              | 1833       | EN        |                  |               |              | 50 25 23 | 127 58 89               |              |           |                |                          |               |                |                  |
|                    |              | 1837       | BE        | NET              |               | 095          | 50 25 23 | 127 58 94               |              | 118       |                |                          |               |                | BONGO            |
|                    |              | 1856       | BE        | TRAWL            |               | 096          | 50 24 29 | 128 00.760              | 148          |           | SURFACE TOW    |                          |               |                |                  |
| <del>9</del>       |              |            |           |                  |               |              |          |                         |              |           |                |                          |               |                |                  |

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| Month MARCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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RICKER                                               |           |              | Cruise ID 2005-03 |                |              |               |                |                         |
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| Day                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position                                                       |           | Bottom Depth | Max Depth         | Sample Numbers | # of Bottles | Watch keepers | Trans. cleaned | Comments                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |            |           |           |               |              | Latitude                                                       | Longitude |              |                   |                |              |               |                |                         |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | VI 15        | 2324       | BC        | CTD       |               | 097          | 50 23 32                                                       | 128 04 71 | 75           |                   | <del>X</del>   | 1            | H.M.          |                | T: 8.96 S: 31.23        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              | 2326       | BO        |           |               |              | 50 23 32                                                       | 128 04 71 |              | 65                |                |              |               |                | BOTE 10m - SAL/CHL/NITS |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              | 2327       | EN        |           |               |              | 50 23 32                                                       | 128 04 71 |              |                   |                |              |               |                |                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              | 2341       | BC        | NET       |               | 098          | 50 23 32                                                       | 128 04 75 |              | 63                |                |              |               |                | BONGO                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              | 2350       | BE        | TRAWL     |               | 099          | ENGINE PROBLEMS, SURFACE TOW ABOARD, HEADING TO WILSON HARBOR. |           |              |                   |                |              |               |                |                         |
| <del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|              |            |           |           |               |              |                                                                |           |              |                   |                |              |               |                |                         |

## Cast type:

BOT = bottle cast, no CTD  
 CTD = CTD without Rosette  
 ROS = Rosette plus CTD

## USW = sea water loop

MOR = mooring  
 NET = net haul  
 DRF = drifter

## bottle firing method:

US = up / stop  
 UN = up / no stop  
 DN = down / no stop

## 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 for each cast, do not use Ammonia products

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\* - 2 x 1.70 MISHINS DELIVERED TO BOAT FROM DOUG ANDERSON - BY HELICOPTER

# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

| Month MARCH |              |            |           | Year 2005 |               |              |           | Ship W.E. RICKER |              |           |                | Cruise ID 2005-03 |               |                |                         |
|-------------|--------------|------------|-----------|-----------|---------------|--------------|-----------|------------------|--------------|-----------|----------------|-------------------|---------------|----------------|-------------------------|
| Day         | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position  |                  | Bottom Depth | Max Depth | Sample Numbers | # of Bottles      | Watch keepers | Trans. cleaned | Comments                |
|             |              |            |           |           |               |              | Latitude  | Longitude        |              |           |                |                   |               |                |                         |
| 10          | IBC-03       | 1738       | BC        | CTD       |               | 106          | 51 37 37  | 127 31 06        | 312          |           |                | 1                 | H.M.          |                | T: 7.53 S: 25.16        |
|             |              | 1744       | BO        |           |               |              | 51 37 31  | 127 31 04        |              | 200       |                |                   |               |                | BOTE 10m - SAL/CHL/NOTS |
|             |              | 1747       | CH        |           |               |              | 51 37 32  | 127 31 19        |              |           |                |                   |               |                |                         |
|             |              | 1757       | BC        | NET       |               | 107          | 51 37 11  | 127 31 24        |              | 150       |                |                   |               |                | BONGO                   |
|             |              | 1818       | BC        | TRAWL     |               | 108          | 51 36 28S | 127 31 612       | 313          |           | SURFACE        | Tow               |               |                |                         |
| 10          | IBC 04       | 1910       | BC        | CTD       |               | 109          | 51 31 53  | 127 33 07        | 324          |           |                | 1                 |               |                | T: 7.64 S: 27.09        |
|             |              | 1914       | BO        |           |               |              | 51 31 48  | 127 33 09        |              | 200       |                |                   |               |                | BOTE 10m - SAL/CHL/NOTS |
|             |              | 1918       | CH        |           |               |              | 51 31 45  | 127 33 11        |              |           |                |                   |               |                |                         |
|             |              | 2003       | BC        | NET       |               | 110          | 51 31 58  | 127 33 18        |              | 150       |                |                   |               |                | BONGO                   |
|             |              | 2021       | BC        | TRAWL     |               | 111          | 51 30 799 | 127 33 773       | 306          |           | SURFACE        | Tow               |               |                |                         |
| 10          | IBC 05       | 2123       | BC        | CTD       |               | 112          | 51 26 49  | 127 39 23        | 180          |           |                | 1                 |               |                | T: 7.82 S: 29.76        |
|             |              | 2127       | BO        |           |               |              | 51 26 42  | 127 39 39        |              | 170       |                |                   |               |                | BOTE 10m - SAL/CHL/NOTS |
|             |              | 2131       | CH        |           |               |              | 51 26 38  | 127 39 52        |              |           |                |                   |               |                |                         |
|             |              | 2142       | BC        | NET       |               | 113          | 51 26 28  | 127 39 79        | 118          | 108       |                |                   |               |                | BONGO                   |
|             |              | 2158       | BC        | TRAWL     |               | 114          | 51 26 020 | 127 41 223       | 190          |           | SURFACE        | Tow               |               |                |                         |

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

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

| Month <u>MARCH</u>                                       |              |            |           | Year <u>2005</u> |               |              |          | Ship <u>W. E. RICKER</u> |              |           |                | Cruise ID <u>2005-03</u> |               |                |                        |
|----------------------------------------------------------|--------------|------------|-----------|------------------|---------------|--------------|----------|--------------------------|--------------|-----------|----------------|--------------------------|---------------|----------------|------------------------|
| Day                                                      | Station Name | Time (UTC) | Time Code | Cast Type        | Firing Method | Event Number | Position |                          | Bottom Depth | Max Depth | Sample Numbers | # of Bottles             | Watch keepers | Trans. cleaned | Comments               |
|                                                          |              |            |           |                  |               |              | Latitude | Longitude                |              |           |                |                          |               |                |                        |
| 10                                                       | IBC 06       | 2301       | BE        | CTD              |               | 115          | 51 28 91 | 127 43 92                | 139          |           |                | 1                        | 11.M.         |                | T:8.12 S:27.90         |
|                                                          |              | 2304       | BO        |                  |               |              | 51 28 90 | 127 48 90                |              | 130       |                |                          |               |                | Bote 10m - SA/CAL/NETS |
|                                                          |              | 2306       | EN        |                  |               |              | 51 28 90 | 127 48 89                |              |           |                |                          |               |                |                        |
|                                                          |              | 2312       | BE        | NET              |               | 116          | 51 28 90 | 127 48 86                |              | 128       |                |                          |               |                | BONGO                  |
|                                                          |              | 2330       | BE        | TRAWL            |               | 117          | 51 29 52 | 127 48 84                | 150          |           | SURFACE        | Tow                      |               |                |                        |
| 11                                                       | IBC 07       | 0029       | BE        | CTD              |               | 118          | 51 34 35 | 127 50 20                | 196          |           |                | 1                        |               |                | T:8.17 S:29.20         |
|                                                          |              | 0033       | BO        |                  |               |              | 51 34 31 | 127 50 19                |              | 190       |                |                          |               |                | Bote 10m - SA/CAL/NETS |
|                                                          |              | 0037       | EN        |                  |               |              | 51 34 30 | 127 50 19                |              |           |                |                          |               |                |                        |
|                                                          |              | 00         | BE        | NET              |               | 119          | 51 34    | 127 50                   |              |           |                |                          |               |                | BONGO                  |
|                                                          |              | 0205       | BE        | TRAWL            |               | 120          | 51 37 64 | 127 50 56                | 186          |           | SURFACE        | Tow                      |               |                |                        |
| <del>11 T 01 1504 BE CTD 121 51 16 57 128 20 03 75</del> |              |            |           |                  |               |              |          |                          |              |           |                |                          |               |                |                        |
| 11                                                       | T 01         | 1504       | BE        | CTD              |               | 121          | 51 16 57 | 128 20 03                | 75           |           |                | 1                        |               | ✓              | T:8.68 S:31.45         |
|                                                          |              | 1506       | BO        |                  |               |              | 51 16 58 | 128 20 06                |              | 70        |                |                          |               |                | Bote 10m - SA/CAL/NETS |
|                                                          |              | 1507       | EN        |                  |               |              | 51 16 58 | 128 20 08                |              |           |                |                          |               |                |                        |
|                                                          |              | 1512       | BE        | NET              |               | 122          | 51 16 58 | 128 20 09                |              | 63        |                |                          |               |                | BONGO                  |
|                                                          |              | 1530       | BE        | TRAWL            |               | 123          | 51 15 41 | 128 21 43                | 83           |           | SURFACE        | Tow                      |               |                |                        |
|                                                          |              |            |           |                  |               |              |          |                          |              |           |                |                          |               |                |                        |
|                                                          |              |            |           |                  |               |              |          |                          |              |           |                |                          |               |                |                        |

Cast type: BOT = bottle cast, no CTD CTD = CTD without Rosette ROS = Rosette plus CTD

USW = sea water loop MOR = mooring NET = net haul DRF = drifter

bottle firing method: US = up / stop UN = up / no stop DN = down / no stop

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## DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

| Month MARCH |              |            |           | Year 2005 |               |              |           | Ship W.E. RICKER |              |           |                | Cruise ID 2005-03 |               |                |                        |
|-------------|--------------|------------|-----------|-----------|---------------|--------------|-----------|------------------|--------------|-----------|----------------|-------------------|---------------|----------------|------------------------|
| Day         | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position  |                  | Bottom Depth | Max Depth | Sample Numbers | # of Bottles      | Watch keepers | Trans. cleaned | Comments               |
|             |              |            |           |           |               |              | Latitude  | Longitude        |              |           |                |                   |               |                |                        |
| 11          | T 02         | 1629       | BE        | CTD       |               | 124          | 51 12 52  | 128 27 93        | 190          |           |                | 1                 | H.M.          |                | T: 8.71 S: 31.48       |
|             |              | 1633       | BO        |           |               |              | 51 12 55  | 128 27 91        |              | 180       |                |                   |               |                | BOT@10m - SAL/CHL/HUTS |
|             |              | 1636       | EN        |           |               |              | 51 12 57  | 128 27 90        |              |           |                |                   |               |                |                        |
|             |              | 1640       | BE        | NET       |               | 125          | 51 12 59  | 128 27 69        |              | 150       |                |                   |               |                | BONGO                  |
|             |              | 1709       | BE        | TRAWL     |               | 126          | 51 12 034 | 128 29 138       | 189          |           | SURFACE        | Tow               |               |                |                        |
| 11          | T 03         | 1808       | BE        | CTD       |               | 127          | 51 09 42  | 128 35 96        | 138          |           |                | 1                 |               |                | T: 8.73 S: 31.66       |
|             |              | 1810       | BO        |           |               |              | 51 09 46  | 128 35 96        |              | 130       |                |                   |               |                | BOT@10m - SAL/CHL/HUTS |
|             |              | 1812       | EN        |           |               |              | 51 09 49  | 128 35 95        |              |           |                |                   |               |                |                        |
|             |              | 1817       | BE        | NET       |               | 128          | 51 09 49  | 128 35 91        |              | 127       |                |                   |               |                | BONGO                  |
|             |              | 1837       | BE        | TRAWL     |               | 129          | 51 08 009 | 128 36 734       | 175          |           | SURFACE        | Tow               |               |                |                        |
| 11          | T 04         | 2000       | BE        | CTD       |               | 130          | 51 04 44  | 128 43 68        | 63           |           |                | 1                 |               |                | T: 8.75 S: 31.66       |
|             |              | 2002       | BO        |           |               |              | 51 04 43  | 128 43 64        |              | 55        |                |                   |               |                | BOT@10m - SAL/CHL/HUTS |
|             |              | 2003       | EN        |           |               |              | 51 04 42  | 128 43 63        |              |           |                |                   |               |                |                        |
|             |              | 2009       | BE        | NET       |               | 131          | 51 04 42  | 128 43 61        |              | 51        |                |                   |               |                | BONGO                  |
|             |              | 2025       | BE        | TRAWL     |               | 132          | 51 03 806 | 128 44 172       | 60           |           | SURFACE        | Tow               |               |                |                        |

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

| Month MARCH |              |            |           | Year 2005 |               |              | Ship W.E. RICKER |            |              |           | Cruise ID 2005-03 |              |               |                |                        |
|-------------|--------------|------------|-----------|-----------|---------------|--------------|------------------|------------|--------------|-----------|-------------------|--------------|---------------|----------------|------------------------|
| Day         | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position         |            | Bottom Depth | Max Depth | Sample Numbers    | # of Bottles | Watch keepers | Trans. cleaned | Comments               |
| 11          | T 05         | 2136       | BE        | CTD       |               | 133          | 50 59 93         | 129 52 14  | 64           |           |                   | 1            | H.M.          |                | T: 8.95 S: 31.76       |
|             |              | 2137       | BO        |           |               |              | 50 59 91         | 129 52 16  |              | 55        |                   |              |               |                | BOTE 10m - SAL/CHL/NTS |
|             |              | 2139       | EN        |           |               |              | 50 59 90         | 129 52 16  |              |           |                   |              |               |                |                        |
|             |              | 2145       | BE        | NET       |               | 134          | 50 59 84         | 129 52 15  |              | 52        |                   |              |               |                | BOTGO                  |
|             |              | 2202       | BE        | TRAWL     |               | 135          | 50 59 112        | 128 53 085 | 65           |           | SURFACE           |              | TOW           |                |                        |
| 11          | T 06         | 2308       | BE        | CTD       |               | 136          | 50 55 77         | 129 00 11  | 60           |           |                   | 1            |               |                | T: 9.00 S: 32.00       |
|             |              | 2310       | BO        |           |               |              | 50 55 74         | 129 00 15  |              | 50        |                   |              |               |                | BOTE 10m - SAL/CHL/NTS |
|             |              | 2312       | EN        |           |               |              | 50 55 71         | 129 00 17  |              |           |                   |              |               |                |                        |
|             |              | 2319       | BE        | NET       |               | 137          | 50 55 63         | 129 00 18  |              | 49        |                   |              |               |                | BOTGO                  |
|             |              | 2336       | BE        | TRAWL     |               | 138          | 50 55 360        | 129 01 568 | 56           |           | SURFACE           |              | TOW           |                |                        |
| 12          | T 07         | 0138       | BE        | CTD       |               | 139          | 50 49 22         | 129 13 48  | 102          |           |                   | 1            |               |                | T: 8.90 S: 32.03       |
|             |              | 0140       | BO        |           |               |              | 50 49 19         | 129 13 59  |              | 95        |                   |              |               |                | BOTE 10m - SAL/CHL/NTS |
|             |              | 0142       | EN        |           |               |              | 50 49 17         | 129 13 68  |              |           |                   |              |               |                |                        |
|             |              | 0150       | BE        | NET       |               | 140          | 50 49 07         | 129 13 94  |              | 91        |                   |              |               |                | BOTGO                  |
|             |              | 0210       | BE        | TRAWL     |               | 141          | 50 49 182        | 129 16 095 | 120          |           | SURFACE           |              | TOW           |                |                        |

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4:10:20

4:12:50

20:10:45  
13:45

## DAILY LOG

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|-------------|--------------|------------|-----------|-----------|---------------|--------------|------------------|-------------|--------------|-----------|-----------------------------------------------------|--------------|---------------|----------------|------------------------|
| Day         | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position         |             | Bottom Depth | Max Depth | Sample Numbers                                      | # of Bottles | Watch keepers | Trans. cleaned | Comments               |
|             |              |            |           |           |               |              | Latitude         | Longitude   |              |           |                                                     |              |               |                |                        |
| 12          | T 08         | 0401       | BC        | CTD       |               | 142          | 50 42 38         | 129 29 10   | 1850         |           |                                                     | 2            | H.M.          | SURF           | T: 8.84 S: 32.23       |
|             | 2nd          | 0412       | BO        |           |               |              | 50 42 39         | 129 29 30   |              | 500       |                                                     |              |               |                | Bore 10m - SAL/CAL/NTS |
|             |              | 0425       | CH        |           |               |              | 50 42 40         | 129 29 62   |              |           | *                                                   |              |               | *              | Bore 500m - SAL        |
|             | 1st          | 0342       | BE        | NET       |               | 143          | 50 42 28         | 129 29 09   |              | 150       |                                                     |              |               |                | BONGO                  |
|             |              |            |           |           |               |              |                  |             |              |           |                                                     |              |               |                | T: 4.54 S: 34.04       |
| 12          | QCi 01       | 1452       | BC        | CTD       |               | 144          | 51 14 94         | 131 14 90   | 2482         |           |                                                     | 1            |               | ✓              | T: 8.59 S: 31.99       |
|             |              | 1456       | BO        |           |               |              | 51 14 96         | 131 14 88   |              | 200       |                                                     |              |               |                | Bore 10m - SAL/CAL/NTS |
|             |              | 1459       | CH        |           |               |              | 51 14 96         | 131 14 86   |              |           |                                                     |              |               |                | →                      |
|             |              | 1504       | BE        | NET       |               | 145          | 51 14 99         | 131 14 82   |              | 150       |                                                     |              |               |                | BONGO                  |
|             |              | 1533       | BE        | TRAWL     |               | 146          | 51 15 89         | 131 16 38.0 |              |           | Mid-WATER TOW AT 120m AND 220m FOR 15 MINUTES EACH. |              |               |                |                        |
| 12          | QCi 02       | 2002       | BC        | CTD       |               | 147          | 51 41 93         | 132 00 09   | 2500+        |           |                                                     | 2            |               |                | T: 8.23 S: 31.87       |
|             |              | 2013       | BO        |           |               |              | 51 41 96         | 132 00 37   |              | 500       |                                                     |              |               |                | Bore 10m - SAL/CAL/NTS |
|             |              | 2025       | CH        |           |               |              | 51 41 97         | 132 00 56   |              |           |                                                     |              |               |                | Bore 500m - SAL        |
|             |              | 2032       | BC        | NET       |               | 148          | 51 41 96         | 132 00 70   |              | 150       |                                                     |              |               |                | BONGO                  |
|             |              | 2059       | BE        | TRAWL     |               | 149          | 51 42 97         | 132 02.359  |              |           | Mid-WATER TOW AT 235m.                              |              |               |                |                        |

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\* - TRANSOMETER DATA GONE WACKO AFTER 320m - JELLYFISH, STOPPED @ 400 AND IT CLEARED UP

\* SOUNDER ON @ 1045 Loc To GO THROUGH HAIDA EDDY

## DAILY LOG

0062 40  
05:305:15:10  
18:30  
1501:50  
08:00  
Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

| Month |              |            |           | Year      |               |              |           | Ship       |                                                                    |           |                                         | Cruise ID    |               |                |                                        |  |
|-------|--------------|------------|-----------|-----------|---------------|--------------|-----------|------------|--------------------------------------------------------------------|-----------|-----------------------------------------|--------------|---------------|----------------|----------------------------------------|--|
| Day   | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position  |            | Bottom Depth                                                       | Max Depth | Sample Numbers                          | # of Bottles | Watch keepers | Trans. cleaned | Comments                               |  |
| 12    | QCI 03       | 2354       | BE        | CTD       |               | 150          | 51 59 96  | 132 27 06  | 2500+                                                              |           |                                         | 2            | H.M.          | SURF           | T: 8.00 S: 52.18                       |  |
| 13    |              | 0005       | BO        |           |               |              | 51 59 90  | 132 27 38  |                                                                    | 500       |                                         |              |               |                | BOTE 10m - SAL/CHL/NTS                 |  |
|       |              | 0016       | EX        |           |               |              | 51 59 83  | 132 27 76  |                                                                    |           |                                         |              |               |                | BOTE 500m - SAL                        |  |
|       |              | 0023       | BE        | NET       |               | 151          | 51 59 77  | 132 27 96  |                                                                    | 150       |                                         |              |               |                | BONGO                                  |  |
|       |              | 0142       | BE        | TRAWL     |               | 152          | 52 00 784 | 132 28 583 | SURFACE TOW FOR 15 min<br>AND MID-WATER TOW AT 220m<br>FOR 15 min. |           |                                         |              |               |                | T: 5.08 S: 33.95                       |  |
| 13    | QCI 03       | 0242       | BE        | DRF       |               | 153          | 52 02 95  | 132 33 54  | 2500+                                                              |           |                                         |              |               |                | BILL CRAWFORD HAIRY EDDY<br>DRIFTER #1 |  |
| 13    | QCI 04       | 0506       | BE        | CTD       |               | 154          | 51 44 87  | 133 00 13  | 2500+                                                              |           |                                         | 2            |               | SURF           | T: 8.35 S: 32.14                       |  |
|       |              | 0517       | BO        |           |               |              | 51 44 79  | 133 00 33  |                                                                    | 500       |                                         |              |               |                | BOTE 10m - SAL/CHL/NTS                 |  |
|       |              | 0528       | EX        |           |               |              | 51 44 76  | 133 00 56  |                                                                    |           |                                         |              |               |                | BOTE 500m - SAL                        |  |
|       |              | 0546       | BE        | NET       |               | 155          | 51 44 77  | 133 00 78  |                                                                    |           |                                         |              |               |                | BONGO                                  |  |
|       |              | 0558       | BE        | DRF       |               | 156          | 51 45 67  | 133 00 94  |                                                                    |           |                                         |              |               |                | DRIFTER #2                             |  |
|       |              |            |           |           |               |              |           |            |                                                                    |           |                                         |              |               |                | T: 4.79 S: 34.05                       |  |
| 13    | QCI 05       | 1454       | BE        | CTD       |               | 157          | 52 21 20  | 132 59 77  | 2500+                                                              |           |                                         |              |               | SURF           | T: 8.21 S: 31.90                       |  |
|       |              | 1504       | BO        |           |               |              | 52 21 26  | 132 59 53  |                                                                    | 500       |                                         | 2            |               |                | BOTE 10m - SAL/CHL/NTS                 |  |
|       |              | 1515       | EX        |           |               |              | 52 21 40  | 132 59 29  |                                                                    |           |                                         |              |               |                | BOTE 500m - SAL                        |  |
|       |              | 1521       | BE        | NET       |               | 158          | 52 21 43  | 132 59 19  |                                                                    | 150       | SURFACE TOW 15 min                      |              |               |                | BONGO                                  |  |
|       |              | 1544       | BE        | TRAWL     |               | 159          | 52 22 463 | 132 59 395 |                                                                    |           | AND MID-WATER TOW AT 220m<br>FOR 15 min |              |               |                | ← S                                    |  |

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

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|-------------|--------------|------------|-----------|-----------|---------------|--------------|------------------|------------|--------------|-------------------|----------------|--------------|---------------|----------------|------------------------|
| Day         | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position         |            | Bottom Depth | Max Depth         | Sample Numbers | # of Bottles | Watch keepers | Trans. cleaned | Comments               |
|             |              |            |           |           |               |              | Latitude         | Longitude  |              |                   |                |              |               |                |                        |
| 13          | QCI 06       | 2004       | BE        | CTD       |               | 160          | 52 59 95         | 133 19 98  | 2920         |                   |                | 2            | H.M.          |                | T: 7.33 S: 32.34       |
|             |              | 2014       | BO        |           |               |              | 52 59 96         | 133 20 08  |              | 500               |                |              |               |                | BOT@10m - SAL/CAL/NOTS |
|             |              | 2026       | CH        |           |               |              | 52 59 92         | 133 20 22  |              |                   |                |              |               |                | BOT@500m - SAL         |
|             |              | 2032       | BE        | NET       |               | 161          | 52 59 91         | 133 20 35  |              | 150               |                |              |               |                | BONGO                  |
|             |              | 2054       | BE        | TRAWL     |               | 162          | 53 00 746        | 133 19 442 |              |                   | SURFACE TOW    |              |               |                | T: 4.33 S: 34.08       |
| 13          | QCI 07       | 2343       | BE        | CTD       |               | 163          | 53 16 45         | 132 57 73  | 374          |                   |                | 1            |               |                | T: 7.89 S: 32.13       |
|             |              | 2347       | BO        |           |               |              | 53 16 45         | 132 57 78  |              | 200               |                |              |               |                | BOT@10m - SAL/CAL/NOTS |
|             |              | 2350       | CH        |           |               |              | 53 16 44         | 132 57 81  |              |                   |                |              |               |                |                        |
|             |              | 2357       | BE        | NET       |               | 164          | 53 16 43         | 132 57 82  |              | 150               |                |              |               |                | BONGO                  |
|             |              | 0019       | BE        | TRAWL     |               | 165          | 53 17 123        | 132 56 726 |              |                   | SURFACE TOW    |              |               |                |                        |
| 14          | QCI 08       | 0140       | BE        | CTD       |               | 166          | 53 21 83         | 132 50 96  | 164          |                   |                | 1            |               |                | T: 7.98 S: 31.83       |
|             |              | 0143       | BO        |           |               |              | 53 21 82         | 132 50 96  |              | 155               |                |              |               |                | BOT@10m - SAL/CAL/NOTS |
|             |              | 0146       | CH        |           |               |              | 53 21 82         | 132 50 96  |              |                   |                |              |               |                |                        |
|             |              | 0152       | BE        | NET       |               | 167          | 53 21 86         | 132 51 03  |              |                   |                |              |               |                | BONGO                  |
|             |              | 0212       | BE        | TRAWL     |               | 168          | 53 22 248        | 132 51 908 |              |                   | SURFACE TOW    |              |               |                |                        |

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| Month |              |            |           | Year      |               |              |            | Ship        |              |           |                | Cruise ID    |               |                |                       |  |
|-------|--------------|------------|-----------|-----------|---------------|--------------|------------|-------------|--------------|-----------|----------------|--------------|---------------|----------------|-----------------------|--|
| Day   | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position   |             | Bottom Depth | Max Depth | Sample Numbers | # of Bottles | Watch keepers | Trans. cleaned | Comments              |  |
|       |              |            |           |           |               |              | Latitude   | Longitude   |              |           |                |              |               |                |                       |  |
| 14    | Fi 01        | 1452       | BE        | CTD       |               | 169          | 54 47 27   | 133 03 53   | 140          |           |                | 1            | H.M.          | ✓              | T: 6.53 S: 31.20      |  |
|       |              | 1455       | BO        |           |               |              | 54 47 33   | 133 03 66   |              | 130       |                |              |               |                | BOTEDM - SAL/CAL/NUTS |  |
|       |              | 1457       | EN        |           |               |              | 54 47 36   | 133 03 75   |              |           |                |              |               |                |                       |  |
|       |              | 1503       | BE        | NET       |               | 170          | 54 47 41   | 133 03 98   |              | 114       |                |              |               |                | BONGO                 |  |
|       |              | 1553       | BE        | TRAWL     |               | 171          | 54 47 42.6 | 133 06 20.9 | 203          |           | SURFACE TOW    |              |               |                |                       |  |
|       |              |            |           |           |               |              |            |             |              |           |                |              |               |                |                       |  |
| 14    | Fi 02        | 1608       | BE        | CTD       |               | 172          | 54 46 30   | 133 12 30   | 186          |           |                | 1            |               |                | T: 7.37 S: 32.18      |  |
|       |              | 1612       | BO        |           |               |              | 54 46 30   | 133 12 30   |              | 175       |                |              |               |                | BOTEDM - SAL/CAL/NUTS |  |
|       |              | 1615       | EN        |           |               |              | 54 46 31   | 133 12 30   |              |           |                |              |               |                |                       |  |
|       |              | 1619       | BE        | NET       |               | 173          | 54 46 33   | 133 12 27   |              | 150       |                |              |               |                | BONGO                 |  |
|       |              | 1638       | BE        | TRAWL     |               | 174          | 54 46 22.1 | 133 13 14.7 | 153          |           | SURFACE TOW    |              |               |                |                       |  |
|       |              |            |           |           |               |              |            |             |              |           |                |              |               |                |                       |  |
| 14    | Fi 03        | 1722       | BE        | CTD       |               | 175          | 54 45 46   | 133 18 69   | 119          |           |                | 1            |               |                | T: 7.29 S: 32.13      |  |
|       |              | 1725       | BO        |           |               |              | 54 45 49   | 133 18 69   |              | 110       |                |              |               |                | BOTEDM - SAL/CAL/NUTS |  |
|       |              | 1727       | EN        |           |               |              | 54 45 52   | 133 18 68   |              |           |                |              |               |                |                       |  |
|       |              | 1731       | BE        | NET       |               | 176          | 54 45 58   | 133 18 68   |              |           |                |              |               |                | BONGO                 |  |
|       |              | 1751       | BE        | TRAWL     |               | 177          | 54 45 50.3 | 133 19 66.3 | 130          |           | SURFACE TOW    |              |               |                |                       |  |
|       |              |            |           |           |               |              |            |             |              |           |                |              |               |                |                       |  |
|       |              |            |           |           |               |              |            |             |              |           |                |              |               |                |                       |  |

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|-------------|--------------|------------|-----------|-----------|---------------|--------------|------------------|------------|--------------|-----------|-------------------|--------------|---------------|----------------|------------------------|
| Day         | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position         |            | Bottom Depth | Max Depth | Sample Numbers    | # of Bottles | Watch keepers | Trans. cleaned | Comments               |
|             |              |            |           |           |               |              | Latitude         | Longitude  |              |           |                   |              |               |                |                        |
| 14          | Fi 04        | 1836       | BE        | CTD       |               | 178          | 54 44 51         | 133 24 21  | 167          |           |                   | 1            | H.M.          |                | T: 7.22 S: 32.09       |
|             |              | 1839       | BO        |           |               |              | 54 44 52         | 133 24 24  |              | 155       |                   |              |               |                | BOT@10m - SAL/CAL/MUTS |
|             |              | 1842       | EN        |           |               |              | 54 44 51         | 133 24 24  |              |           |                   |              |               |                |                        |
|             |              | 1847       | BE        | NET       |               | 179          | 54 44 51         | 133 24 23  |              | 150       |                   |              |               |                | BONGO                  |
|             |              | 1908       | BE        | TRAWL     |               | 180          | 54 43 683        | 133 25 282 | 173          |           | SURFACE TOW       |              |               |                |                        |
| 14          | Fi 05        | 2029       | BE        | CTD       |               | 181          | 54 44 33         | 133 34 50  | 194          |           |                   | 1            |               |                | T: 7.72 S: 32.27       |
|             |              | 2032       | BO        |           |               |              | 54 44 26         | 133 34 46  |              | 185       |                   |              |               |                | BOT@10m - SAL/CAL/MUTS |
|             |              | 2035       | EN        |           |               |              | 54 44 21         | 133 34 44  |              |           |                   |              |               |                |                        |
|             |              | 2042       | BE        | NET       |               | 182          | 54 44 11         | 133 34 39  |              | 156       |                   |              |               |                | BONGO                  |
|             |              | 2102       | BE        | TRAWL     |               | 183          | 54 43 686        | 133 35 531 | 202          |           | SURFACE TOW       |              |               |                |                        |
| 14          | Fi 06        | 2156       | BE        | CTD       |               | 184          | 54 43 58         | 133 42 40  | 222          |           |                   | 1            |               |                | T: 7.56 S: 32.27       |
|             |              | 2200       | BO        |           |               |              | 54 43 55         | 133 42 36  |              | 200       |                   |              |               |                | BOT@10m - SAL/CAL/MUTS |
|             |              | 2204       | EN        |           |               |              | 54 43 55         | 133 42 36  |              |           |                   |              |               |                |                        |
|             |              | 2210       | BE        | NET       |               | 185          | 54 43 49         | 133 42 39  |              | 150       |                   |              |               |                | BONGO                  |
|             |              | 2231       | BE        | TRAWL     |               | 186          | 54 43 420        | 133 43 399 | 191          |           | SURFACE TOW       |              |               |                |                        |

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641735

2000

## DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

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|-------------|--------------|------------|-----------|-----------|---------------|--------------|-----------|------------------|--------------|-----------|----------------|-------------------|---------------|----------------|------------------------|
| Day         | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position  |                  | Bottom Depth | Max Depth | Sample Numbers | # of Bottles      | Watch keepers | Trans. cleaned | Comments               |
|             |              |            |           |           |               |              | Latitude  | Longitude        |              |           |                |                   |               |                |                        |
| 14          | Fi 07        | 2318       | BC        | CTD       |               | 187          | 54 42 87  | 133 47 96        | 202          |           |                | 1                 | H.M.          |                | T: 7.75 S: 32.24       |
|             |              | 2322       | BO        |           |               |              | 54 42 86  | 133 47 98        |              | 195       |                |                   |               |                | BOT@10m - SAL/CHL/NUIS |
|             |              | 2325       | EN        |           |               |              | 54 42 86  | 133 47 98        |              |           |                |                   |               |                |                        |
|             |              | 2330       | BC        | NET       |               | 188          | 54 42 86  | 133 47 98        |              | 150       |                |                   |               |                | BONGO                  |
|             |              | 2350       | BC        | TRAWL     |               | 189          | 54 42 937 | 133 49 141       | 212          |           | SURFACE        | Tan               |               |                |                        |
| 15          | Fi 08        | 0138       | BC        | CTD       |               | 190          | 54 42 13  | 133 58 22        | 206          |           |                | 1                 |               |                | T: 7.70 S: 32.28       |
|             |              | 0142       | BO        |           |               |              | 54 42 05  | 133 58 29        |              | 200       |                |                   |               |                | BOT@10m - SAL/CHL/NUIS |
|             |              | 0146       | EN        |           |               |              | 54 41 99  | 133 58 33        |              |           |                |                   |               |                |                        |
|             |              | 0151       | BC        | NET       |               | 191          | 54 41 95  | 133 58 36        |              | 150       |                |                   |               |                | BONGO                  |
|             |              | 0211       | BC        | TRAWL     |               | 192          | 54 41 912 | 133 59 575       | 210          |           | SURFACE        | Tan               |               |                |                        |
| 15          | Fi 10        | 0408       | BC        | CTD       |               | 193          | 54 39 91  | 134 21 84        | 2500+        |           |                | 2                 |               | SURE           | T: 7.53 S: 32.33       |
|             |              | 0419       | BO        |           |               |              | 54 39 75  | 134 22 16        |              | 500       |                |                   |               |                | BOT@10m - SAL/CHL/NUIS |
|             |              | 0431       | EN        |           |               |              | 54 39 68  | 134 22 42        |              |           |                |                   |               |                | BOT@500m - SAL         |
|             |              | 0438       | BC        | NET       |               | 194          | 54 39 66  | 134 22 58        |              | 150       |                |                   |               |                | BONGO                  |
|             |              |            |           |           |               |              |           |                  |              |           |                |                   |               | 500m           | T: 4.53 S: 34.04       |

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## DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

| Month MARCH                                                |              |            |           | Year 2005 |               |              |           | Ship W.G. RICKER |              |           |                | Cruise ID 2005-03 |               |                |                        |
|------------------------------------------------------------|--------------|------------|-----------|-----------|---------------|--------------|-----------|------------------|--------------|-----------|----------------|-------------------|---------------|----------------|------------------------|
| Day                                                        | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position  |                  | Bottom Depth | Max Depth | Sample Numbers | # of Bottles      | Watch keepers | Trans. cleaned | Comments               |
|                                                            |              |            |           |           |               |              | Latitude  | Longitude        |              |           |                |                   |               |                |                        |
| 15                                                         | DE 06        | 14 33      | BC        | CTD       |               | 195          | 54 14 56  | 132 55 58        | 145          |           |                | 1                 | H.M.          | ✓              | T: 6.83 S: 31.55       |
|                                                            |              | 14 36      | BO        |           |               |              | 54 14 56  | 132 55 67        |              | 140       |                |                   |               |                | BOT@10m - SAL/CAL/HUTS |
|                                                            |              | 14 40      | EN        |           |               |              | 54 14 65  | 132 55 82        |              |           |                |                   |               |                |                        |
|                                                            |              | 14 47      | BC        | NET       |               | 196          | 54 14 62  | 132 55 97        |              | 132       |                |                   |               |                | BONGO                  |
|                                                            |              | 15 07      | BC        | TRAWL     |               | 197          | 54 14 103 | 132 55 052       | 152          |           | SURFACE Trawl  |                   |               |                |                        |
| 15                                                         | DE 05        | 16 10      | BC        | CTD       |               | 198          | 54 10 89  | 132 45 78        | 68           |           |                | 1                 |               |                | T: 6.86 S: 31.72       |
|                                                            |              | 16 11      | BO        |           |               |              | 54 10 90  | 132 45 80        |              | 60        |                |                   |               |                | BOT@10m - SAL/CAL/HUTS |
|                                                            |              | 16 12      | EN        |           |               |              | 54 10 91  | 132 45 81        |              |           |                |                   |               |                |                        |
|                                                            |              | 16 16      | BC        | NET       |               | 199          | 54 10 93  | 132 45 82        |              | 58        |                |                   |               |                | BONGO                  |
|                                                            |              | 16 31      | BC        | TRAWL     |               | 200          | 54 11 210 | 132 44 348       | 71           |           | SURFACE Trawl  |                   |               |                |                        |
| 15                                                         | DE 04        | 17 55      | BC        | CTD       |               | 201          | 54 07 91  | 132 28 13        | 50           |           |                | 1                 |               |                | T: 6.81 S: 31.62       |
|                                                            |              | 17 56      | BO        |           |               |              | 54 07 92  | 132 28 15        |              | 45        |                |                   |               |                | BOT@10m - SAL/CAL/HUTS |
|                                                            |              | 17 57      | EN        |           |               |              | 54 07 93  | 132 28 17        |              |           |                |                   |               |                |                        |
|                                                            |              | 18 01      | BC        | NET       |               | 202          | 54 07 96  | 132 28 24        |              | 40        |                |                   |               |                | BONGO                  |
|                                                            |              | 18 13      | BC        | TRAWL     |               | 203          | 54 08 223 | 132 26 771       | 56           |           | SURFACE Trawl  |                   |               |                |                        |
| USW = sea water loop    bottle firing method:    Time Code |              |            |           |           |               |              |           |                  |              |           |                |                   |               |                |                        |

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|-------------|--------------|------------|-----------|-----------|---------------|--------------|-----------|------------------|--------------|-----------|----------------|-------------------|---------------|----------------|---------------------------|
| Day         | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position  |                  | Bottom Depth | Max Depth | Sample Numbers | # of Bottles      | Watch keepers | Trans. cleaned | Comments                  |
|             |              |            |           |           |               |              | Latitude  | Longitude        |              |           |                |                   |               |                |                           |
| 15          | De 03        | 1924       | BC        | CTD       |               | 204          | 54 08 50  | 132 13 05        | 50           |           |                | 1                 | H.M.          |                | T: 6.80 S: 31.68          |
|             |              | 1925       | BO        |           |               |              | 54 08 51  | 132 13 05        |              | 45        |                |                   |               |                | Bottle 10m - SAL/CHL/HUTS |
|             |              | 1926       | EN        |           |               |              | 54 08 51  | 132 13 05        |              |           |                |                   |               |                |                           |
|             |              | 1930       | BC        | NET       |               | 205          | 54 08 52  | 132 12 99        |              | 39        |                |                   |               |                | BONGO                     |
|             |              | 1941       | BC        | TRAWL     |               | 206          | 54 09 027 | 132 11 980       | 51           |           | SURFACE TOW    |                   |               |                |                           |
| 15          | De 02        | 2054       | BC        | CTD       |               | 207          | 54 08 91  | 131 58 21        | 52           |           |                | 1                 |               |                | T: 6.81 S: 31.60          |
|             |              | 2055       | BO        |           |               |              | 54 08 91  | 131 58 20        |              | 45        |                |                   |               |                | Bottle 10m - SAL/CHL/HUTS |
|             |              | 2057       | EN        |           |               |              | 54 08 91  | 131 58 20        |              |           |                |                   |               |                |                           |
|             |              | 2102       | BC        | NET       |               | 208          | 54 08 91  | 131 58 18        |              | 40        |                |                   |               |                | BONGO                     |
|             |              | 2114       | BC        | TRAWL     |               | 209          | 54 09 040 | 131 57 064       | 56           |           | SURFACE TOW    |                   |               |                |                           |
| 15          | De 01        | 2244       | BC        | CTD       |               | 210          | 54 14 89  | 131 38 96        | 105          |           |                | 1                 |               |                | T: 6.84 S: 31.48          |
|             |              | 2246       | BO        |           |               |              | 54 14 92  | 131 38 94        |              | 100       |                |                   |               |                | Bottle 10m - SAL/CHL/HUTS |
|             |              | 2248       | EN        |           |               |              | 54 14 93  | 131 38 93        |              |           |                |                   |               |                |                           |
|             |              | 2253       | BC        | NET       |               | 211          | 54 14 97  | 131 38 85        |              | 94        |                |                   |               |                | BONGO                     |
|             |              | 2309       | BC        | TRAWL     |               | 212          | 54 15 513 | 131 37 253       | 111          |           | SURFACE TOW    |                   |               |                |                           |
|             |              |            |           |           |               |              |           |                  |              |           |                |                   |               |                |                           |
|             |              |            |           |           |               |              |           |                  |              |           |                |                   |               |                |                           |

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| Month |              |            |           | Year      |               |              |           | Ship         |              |           |                | Cruise ID    |               |                |                        |
|-------|--------------|------------|-----------|-----------|---------------|--------------|-----------|--------------|--------------|-----------|----------------|--------------|---------------|----------------|------------------------|
| MARCH |              |            |           | 2005      |               |              |           | W. E. RICKER |              |           |                | 2005-03      |               |                |                        |
| Day   | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position  |              | Bottom Depth | Max Depth | Sample Numbers | # of Bottles | Watch keepers | Trans. cleaned | Comments               |
|       |              |            |           |           |               |              | Latitude  | Longitude    |              |           |                |              |               |                |                        |
| 17    | 15CA 01      | 1501       | BC        | CTD       |               | 213          | 56 11 97  | 132 47 00    | 182          |           |                | 1            | H.M.          | ✓              | T: 5.81 S: 29.65       |
|       |              | 1505       | BO        |           |               |              | 56 12 02  | 132 46 98    |              | 170       |                |              |               |                | BOT 10m - SAL/CAL/HUTS |
|       |              | 1508       | EN        |           |               |              | 56 12 05  | 132 46 95    |              |           |                |              |               |                |                        |
|       |              | 1517       | BC        | NET       |               | 214          | 56 12 10  | 132 46 92    |              | 150       |                |              |               |                | BONGO                  |
|       |              | 1533       | BC        | TRAWL     |               | 215          | 56 12 259 | 132 45 681   | 230          |           | SURFACE TOW    |              |               |                |                        |
| 17    | 15CA 02      | 1635       | BC        | CTD       |               | 216          | 56 15 55  | 132 36 95    | 291          |           |                | 1            |               |                | T: 5.64 S: 29.10       |
|       |              | 1639       | BO        |           |               |              | 56 15 56  | 132 36 90    |              | 200       |                |              |               |                | BOT 10m - SAL/CAL/HUTS |
|       |              | 1643       | EN        |           |               |              | 56 15 55  | 132 36 93    |              |           |                |              |               |                |                        |
|       |              | 1648       | BC        | NET       |               | 217          | 56 15 54  | 132 37 02    |              | 150       |                |              |               |                | BONGO                  |
|       |              | 1707       | BC        | TRAWL     |               | 218          | 56 16 197 | 132 37 149   | 300          |           | SURFACE TOW    |              |               |                |                        |
| 17    | 15CA 03      | 1814       | BC        | CTD       |               | 219          | 56 20 53  | 132 30 79    | 178          |           |                | 1            |               |                | T: 5.61 S: 29.27       |
|       |              | 1818       | BO        |           |               |              | 56 20 53  | 132 30 81    |              | 170       |                |              |               |                | BOT 10m - SAL/CAL/HUTS |
|       |              | 1821       | EN        |           |               |              | 56 20 53  | 132 30 81    |              |           |                |              |               |                |                        |
|       |              | 1825       | BC        | NET       |               | 220          | 56 20 53  | 132 30 88    |              | 150       |                |              |               |                | BONGO                  |
|       |              | 1846       | BC        | TRAWL     |               | 221          | 56 20 766 | 132 30 136   | 176          |           | SURFACE TOW    |              |               |                |                        |
|       |              |            |           |           |               |              |           |              |              |           |                |              |               |                |                        |
|       |              |            |           |           |               |              |           |              |              |           |                |              |               |                |                        |

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|-------------|--------------|------------|-----------|-----------|---------------|--------------|-------------------|------------|--------------|-----------|-------------------|--------------|---------------|----------------|------------------------|
| Day         | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position          |            | Bottom Depth | Max Depth | Sample Numbers    | # of Bottles | Watch keepers | Trans. cleaned | Comments               |
|             |              |            |           |           |               |              | Latitude          | Longitude  |              |           |                   |              |               |                |                        |
| 17          | ISCA 04      | 20 05      | BC        | CTD       |               | 222          | 56 24 79          | 132 22 69  | 64           |           |                   | 1            | H.M.          |                | T:5.73 S:29.16         |
|             |              | 20 06      | BO        |           |               |              | 56 24 80          | 132 22 70  |              | 55        |                   |              |               |                | BOT@10m - SAL/CHL/NUIS |
|             |              | 20 08      | EN        |           |               |              | 56 24 80          | 132 22 71  |              |           |                   |              |               |                |                        |
|             |              | 20 13      | BC        | NGT       |               | 223          | 56 24 83          | 132 22 76  |              | 50        |                   |              |               |                | BONGO                  |
|             |              | 20 24      | BC        | TRAWL     |               | 224          | 56 25 426         | 132 23 579 | 44           |           | SURFACE TOW.      |              |               |                |                        |
| 17          | ISCA 05      | 21 17      | BC        | CTD       |               | 225          | 56 27 50          | 132 26 49  | 135          |           |                   | 1            |               |                | T:5.75 S:29.29         |
|             |              | 21 19      | BO        |           |               |              | 56 27 48          | 132 26 51  |              | 125       |                   |              |               |                | BOT@10m - SAL/CHL/NUIS |
|             |              | 21 22      | EN        |           |               |              | 56 27 46          | 132 26 53  |              |           |                   |              |               |                |                        |
|             |              | 21 27      | BC        | NGT       |               | 226          | 56 27 42          | 132 26 57  |              | 125       |                   |              |               |                | BONGO                  |
|             |              | 21 44      | BC        | TRAWL     |               | 227          | 56 28 303         | 132 28 007 | 167          |           | SURFACE TOW.      |              |               |                |                        |
| 17          | ISCA 06      | 22 38      | BC        | CTD       |               | 228          | 56 25 97          | 132 36 06  | 208          |           |                   | 1            |               |                | T:5.61 S:28.77         |
|             |              | 22 42      | BO        |           |               |              | 56 25 96          | 132 36 13  |              | 200       |                   |              |               |                | BOT@10m - SAL/CHL/NUIS |
|             |              | 22 46      | EN        |           |               |              | 56 25 94          | 132 36 22  |              |           |                   |              |               |                |                        |
|             |              | 22 55      | BC        | NGT       |               | 229          | 56 25 95          | 132 36 40  |              | 150       |                   |              |               |                | BONGO                  |
|             |              | 23 13      | BC        | TRAWL     |               | 230          | 56 26 531         | 132 37 229 |              |           | SURFACE TOW.      |              |               |                |                        |
|             |              |            |           |           |               |              |                   |            |              |           |                   |              |               |                |                        |
|             |              |            |           |           |               |              |                   |            |              |           |                   |              |               |                |                        |

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|-------------|-----------------|------------|-----------|-----------|---------------|--------------|-----------|------------------|--------------|-----------|----------------|-------------------|---------------|----------------|---------------------|
| Day         | Station Name    | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position  |                  | Bottom Depth | Max Depth | Sample Numbers | # of Bottles      | Watch keepers | Trans. cleaned | Comments            |
|             |                 |            |           |           |               |              | Latitude  | Longitude        |              |           |                |                   |               |                |                     |
| 18          | 15CA 07         | 0009       | BC        | CTD       |               | 231          | 56 30 56  | 132 40 67        | 94           |           |                | 1                 | H.M.          |                | T: 5.56 S: 28.49    |
|             |                 | 0011       | BO        |           |               |              | 56 30 56  | 132 40 63        |              | 85        |                |                   |               |                | BOTOM. SAL/CHL/NUTS |
|             |                 | 0013       | GN        |           |               |              | 56 30 56  | 132 40 61        |              |           |                |                   |               |                |                     |
|             |                 | 0018       | BC        | NET       |               | 232          | 56 30 55  | 132 40 52        |              | 85        |                |                   |               |                | BONGO               |
|             |                 | 0034       | BC        | TRAWL     |               | 233          | 56 30 119 | 132 41 727       | 132          |           | SURFACE        | Tau.              |               |                |                     |
| 18          | 15CA 08         | 0247       | BC        | CTD       |               | 234          | 56 28 99  | 132 47 63        | 121          |           |                | 1                 |               |                | T: 5.71 S: 28.31    |
|             | 2 <sup>nd</sup> | 0249       | BO        |           |               |              | 56 29 00  | 132 47 64        |              | 110       |                |                   |               |                | BOTOM. SAL/CHL/NUTS |
|             |                 | 0251       | GN        |           |               |              | 56 29 01  | 132 47 65        |              |           |                |                   |               |                |                     |
|             | 3 <sup>rd</sup> | 0257       | BC        | NET       |               | 235          | 56 29 01  | 132 47 67        |              | 107       |                |                   |               |                | BONGO               |
|             | 1 <sup>st</sup> | 0201       | BC        | TRAWL     |               | 236          | 56 28 949 | 132 53 299       | 106          |           | SURFACE        | Tau.              |               |                |                     |
| 18          | 15CA 09         | 1456       | BC        | CTD       |               | 237          | 56 28 93  | 132 53 71        | 113          |           |                | 1                 |               | ✓              | T: 5.75 S: 29.67    |
|             |                 | 1459       | BO        |           |               |              | 56 28 94  | 132 53 75        |              | 105       |                |                   |               |                | BOTOM. SAL/CHL/NUTS |
|             |                 | 1501       | GN        |           |               |              | 56 28 93  | 132 53 80        |              |           |                |                   |               |                |                     |
|             |                 | 1508       | BC        | NET       |               | 238          | 56 29 93  | 132 53 92        |              | 102       |                |                   |               |                | BONGO               |
|             |                 | 1526       | BC        | TRAWL     |               | 239          | 56 28 582 | 132 56 194       |              |           | SURFACE        | Tau.              |               |                |                     |
|             |                 |            |           |           |               |              |           |                  |              |           |                |                   |               |                |                     |
|             |                 |            |           |           |               |              |           |                  |              |           |                |                   |               |                |                     |

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| Month <i>MARCH</i> |              |            |           | Year <i>2005</i> |               |              |           | Ship <i>W-E. RICKER</i> |              |           |                | Cruise ID <i>2005-03</i> |               |                |                        |
|--------------------|--------------|------------|-----------|------------------|---------------|--------------|-----------|-------------------------|--------------|-----------|----------------|--------------------------|---------------|----------------|------------------------|
| Day                | Station Name | Time (UTC) | Time Code | Cast Type        | Firing Method | Event Number | Position  |                         | Bottom Depth | Max Depth | Sample Numbers | # of Bottles             | Watch keepers | Trans. cleaned | Comments               |
|                    |              |            |           |                  |               |              | Latitude  | Longitude               |              |           |                |                          |               |                |                        |
| 18                 | ISCA 10      | 1701       | BE        | CTD              |               | 240          | 56 22 08  | 133 16 61               | 269          |           |                | 1                        | H.M.          |                | T: 5.84 S: 30.50       |
|                    |              | 1705       | BO        |                  |               |              | 56 22 09  | 133 16 68               |              | 200       |                |                          |               |                |                        |
|                    |              | 1708       | EN        |                  |               |              | 56 22 08  | 133 16 77               |              |           |                |                          |               |                | BOT 10m - CHL/NUTS     |
|                    |              | 1713       | BE        | NET              |               | 241          | 56 22 07  | 133 16 91               |              | 150       |                |                          |               |                | BONGO                  |
|                    |              | 1732       | BE        | TRAWL            |               | 242          | 56 22 148 | 133 19 134              | 293          |           | SURFACE TOW    |                          |               |                |                        |
| 18                 | ISCA 11      | 1827       | BE        | CTD              |               | 243          | 56 22 65  | 133 29 80               | 407          |           |                | 1                        |               |                | T: 5.79 S: 30.65       |
|                    |              | 1831       | BO        |                  |               |              | 56 22 65  | 133 29 87               |              | 200       |                |                          |               |                | BOT 10m - SAL/CHL/NUTS |
|                    |              | 1834       | EN        |                  |               |              | 56 22 63  | 133 29 95               |              |           |                |                          |               |                |                        |
|                    |              | 1839       | BE        | NET              |               | 244          | 56 22 63  | 133 30 00               |              | 150       |                |                          |               |                | BONGO                  |
|                    |              | 1858       | BE        | TRAWL            |               | 245          | 56 23 105 | 133 32 202              | 312          |           | TOW AT 15m     |                          |               |                |                        |
| 18                 | ISCA 12      | 2015       | BE        | CTD              |               | 246          | 56 22 03  | 133 46 08               | 275          |           |                | 1                        |               |                | T: 5.84 S: 30.83       |
|                    |              | 2020       | BO        |                  |               |              | 56 21 95  | 133 46 16               |              | 200       |                |                          |               |                | BOT 10m - CHL/NUTS     |
|                    |              | 2023       | EN        |                  |               |              | 56 21 89  | 133 46 22               |              |           |                |                          |               |                |                        |
|                    |              | 2029       | BE        | NET              |               | 247          | 56 21 88  | 133 46 24               |              |           |                |                          |               |                | BONGO                  |
|                    |              | 2050       | BE        | TRAWL            |               | 248          | 56 20 915 | 133 46 832              | 270          |           | SURFACE TOW    |                          |               |                |                        |

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## DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

| Month |              |            |           | Year      |               |              |           | Ship         |              |           |                | Cruise ID    |               |                |                        |
|-------|--------------|------------|-----------|-----------|---------------|--------------|-----------|--------------|--------------|-----------|----------------|--------------|---------------|----------------|------------------------|
| MARCH |              |            |           | 2005      |               |              |           | W. E. RICKER |              |           |                | 2005-03      |               |                |                        |
| Day   | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position  |              | Bottom Depth | Max Depth | Sample Numbers | # of Bottles | Watch keepers | Trans. cleaned | Comments               |
|       |              |            |           |           |               |              | Latitude  | Longitude    |              |           |                |              |               |                |                        |
| 18    | ISCA 13      | 2148       | BC        | CTD       |               | 249          | 56 15 58  | 133 47 85    | 264          |           |                | 1            | 14.11         |                | T: 5.95 S: 31.10       |
|       |              | 2152       | BO        |           |               |              | 56 15 58  | 133 47 87    |              | 200       |                |              |               |                | BOT 10m - SAL/CAL/NUTS |
|       |              | 2155       | EN        |           |               |              | 56 15 57  | 133 47 89    |              |           |                |              |               |                |                        |
|       |              | 2200       | BC        | NET       |               | 250          | 56 15 52  | 133 47 91    |              | 150       |                |              |               |                | BONGO                  |
|       |              | 2219       | BE        | TRAWL     |               | 251          | 56 14 727 | 133 47 780   | 225          |           | Tow AT         | 15 m         |               |                |                        |
|       |              |            |           |           |               |              |           |              |              |           |                |              |               |                |                        |
| 18    | ISCA 14      | 2322       | BC        | CTD       |               | 252          | 56 08 92  | 133 46 47    | 354          |           |                | 1            |               |                | T: 6.01 S: 31.34       |
|       |              | 2326       | BO        |           |               |              | 56 08 90  | 133 46 48    |              | 200       |                |              |               |                | BOT 10m - SAL/CAL/NUTS |
|       |              | 2329       | EN        |           |               |              | 56 08 92  | 133 46 48    |              |           |                |              |               |                |                        |
|       |              | 2335       | BC        | NET       |               | 253          | 56 08 93  | 133 46 40    |              | 150       |                |              |               |                | BONGO                  |
|       |              | 2354       | BE        | TRAWL     |               | 254          | 56 07 993 | 133 46 979   | 271          |           | SURFACE Tow    |              |               |                |                        |
| <hr/> |              |            |           |           |               |              |           |              |              |           |                |              |               |                |                        |
| 19    | ISCA 15      | 0136       | BC        | CTD       |               | 255          | 56 02 79  | 133 52 47    | 163          | 155       |                | 1            |               |                | T: 6.00 S: 31.34       |
|       |              | 0139       | BO        |           |               |              | 56 02 79  | 133 52 49    |              |           |                |              |               |                | BOT 10m - SAL/CAL/NUTS |
|       |              | 0141       | EN        |           |               |              | 56 02 78  | 133 52 53    |              |           |                |              |               |                |                        |
|       |              | 0156       | BC        | NET       |               | 256          | 56 02 88  | 133 52 64    |              | 150       |                |              |               |                | BONGO                  |
|       |              | 0209       | BE        | TRAWL     |               | 257          | 56 02 682 | 133 53 442   | 265          |           |                |              | SURFACE Tow   |                |                        |
|       |              |            |           |           |               |              |           |              |              |           |                |              |               |                |                        |
|       |              |            |           |           |               |              |           |              |              |           |                |              |               |                |                        |

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

| Month <u>MARCH</u> |              |            |           | Year <u>2005</u> |               |              |            | Ship <u>W.E. RICKER</u> |              |           |                | Cruise ID <u>2005-03</u> |               |                |                          |  |
|--------------------|--------------|------------|-----------|------------------|---------------|--------------|------------|-------------------------|--------------|-----------|----------------|--------------------------|---------------|----------------|--------------------------|--|
| Day                | Station Name | Time (UTC) | Time Code | Cast Type        | Firing Method | Event Number | Position   |                         | Bottom Depth | Max Depth | Sample Numbers | # of Bottles             | Watch keepers | Trans. cleaned | Comments                 |  |
|                    |              |            |           |                  |               |              | Latitude   | Longitude               |              |           |                |                          |               |                |                          |  |
| 19                 | ISCA 16      | 1601       | BC        | CTD              |               | 258          | 57 09 16   | 133 33 60               | 152          |           |                | 1                        | H.M.          | ✓              | T: 4.68 S: 30.91         |  |
|                    |              | 1604       | BO        |                  |               |              | 57 09 16   | 133 33 61               |              | 145       |                |                          |               |                |                          |  |
|                    |              | 1607       | EN        |                  |               |              | 57 09 17   | 133 33 61               |              |           |                |                          |               |                | Bottle on - SAL/CAL/MUTS |  |
|                    |              | 1612       | BC        | NET              |               | 259          | 57 09 17   | 133 33 61               |              |           |                |                          |               |                |                          |  |
|                    |              | 1633       | BC        | TRAWL            |               | 260          | 57 08 79.4 | 133 31 77.8             | 147          |           |                |                          |               |                | BONGO                    |  |
|                    |              |            |           |                  |               |              |            |                         |              |           | SURFACE Trawl  |                          |               |                |                          |  |
| 19                 | ISCA 17      | 1730       | BC        | CTD              |               | 261          | 57 06 71   | 133 25 30               | 146          |           |                | 1                        |               |                | T: 4.85 S: 31.01         |  |
|                    |              | 1733       | BO        |                  |               |              | 57 06 74   | 133 25 34               |              | 140       |                |                          |               |                | Bottle on - SAL/CAL/MUTS |  |
|                    |              | 1736       | EN        |                  |               |              | 57 06 79   | 133 25 39               |              |           |                |                          |               |                |                          |  |
|                    |              | 1740       | BC        | NET              |               | 262          | 57 06 82   | 133 25 39               |              | 135       |                |                          |               |                | BONGO                    |  |
|                    |              | 1759       | BC        | TRAWL            |               | 263          | 57 06 360  | 133 24 04.9             | 150          |           |                |                          |               |                | SURFACE Trawl            |  |
|                    |              |            |           |                  |               |              |            |                         |              |           |                |                          |               |                |                          |  |
| 19                 | ISCA 18      | 1850       | BC        | CTD              |               | 264          | 57 04 55   | 133 17 97               | 156          |           |                | 1                        |               |                | T: 4.90 S: 31.14         |  |
|                    |              | 1853       | BO        |                  |               |              | 57 04 57   | 133 18 00               |              | 150       |                |                          |               |                | Bottle on - SAL/CAL/MUTS |  |
|                    |              | 1856       | EN        |                  |               |              | 57 04 59   | 133 18 02               |              |           |                |                          |               |                |                          |  |
|                    |              | 1901       | BC        | NET              |               | 265          | 57 04 60   | 133 18 08               |              | 146       |                |                          |               |                | BONGO                    |  |
|                    |              | 1919       | BC        | TRAWL            |               | 266          | 57 04 45.2 | 133 16 94.0             | 149          |           |                |                          |               |                | Trawl AT 15M             |  |
|                    |              |            |           |                  |               |              |            |                         |              |           |                |                          |               |                |                          |  |
|                    |              |            |           |                  |               |              |            |                         |              |           |                |                          |               |                |                          |  |

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## INSTITUTE OF OCEAN SCIENCES

| Month MARCH   |              |            |           | Year 2005 |               |              | Ship W. E. RICKER |           |              |           | Cruise ID 2005-03 |              |               |                |                        |
|---------------|--------------|------------|-----------|-----------|---------------|--------------|-------------------|-----------|--------------|-----------|-------------------|--------------|---------------|----------------|------------------------|
| Day           | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position          |           | Bottom Depth | Max Depth | Sample Numbers    | # of Bottles | Watch keepers | Trans. cleaned | Comments               |
|               |              |            |           |           |               |              | Latitude          | Longitude |              |           |                   |              |               |                |                        |
| 19            | ISCA 19      | 20 32      | BE        | CTD       |               | 267          | 57 01 48          | 133 04 45 | 145          |           |                   | 1            | 4-m           |                | T: 5.09 S: 31.09       |
|               |              | 20 35      | BO        |           |               |              | 57 01 46          | 133 04 46 |              | 140       |                   |              |               |                | BOT@10m - SAL/CHL/NUTS |
|               |              | 20 38      | EN        |           |               |              | 57 01 47          | 133 04 49 |              |           |                   |              |               |                |                        |
|               |              | 20 43      | BE        | NET       |               | 268          | 57 01 48          | 133 04 48 |              | 131       |                   |              |               |                |                        |
|               |              | 21 01      | BE        | TRAWL     |               | 269          | 57 02 07          | 133 05 29 | 150          |           | SURFACE Trawl     |              |               |                |                        |
| <del>20</del> |              |            |           |           |               |              |                   |           |              |           |                   |              |               |                |                        |
| 20            | ISCA 20      | 1600       | BE        | CTD       |               | 270          | 56 07 91          | 132 48 87 | 214          |           |                   | 1            |               | ✓              | T: 5.40 S: 30.28       |
|               |              | 1604       | BO        |           |               |              | 56 07 94          | 132 48 86 |              | 200       |                   |              |               |                | BOT@10m - SAL/CHL/NUTS |
|               |              | 16 07      | EN        |           |               |              | 56 07 94          | 132 48 86 |              |           |                   |              |               |                |                        |
|               |              | 16 11      | BE        | NET       |               | 271          | 56 07 96          | 132 48 82 |              | 150       |                   |              |               |                | BONGO                  |
|               |              | 16 31      | BE        | TRAWL     |               | 272          | 56 07 07          | 132 48 33 | 350          |           | SURFACE Trawl     |              |               |                |                        |
| <del>20</del> |              |            |           |           |               |              |                   |           |              |           |                   |              |               |                |                        |
| 20            | ISCA 21      | 1731       | BE        | CTD       |               | 273          | 56 02 29          | 132 44 05 | 334          |           |                   | 1            |               |                | T: 5.29 S: 29.89       |
|               |              | 17 35      | BO        |           |               |              | 56 02 33          | 132 44 06 |              | 200       |                   |              |               |                | BOT@10m - SAL/CHL/NUTS |
|               |              | 17 38      | EN        |           |               |              | 56 02 36          | 132 44 07 |              |           |                   |              |               |                |                        |
|               |              | 17 43      | BE        | NET       |               | 274          | 56 02 41          | 132 44 07 |              | 150       |                   |              |               |                | BONGO                  |
|               |              | 1803       | BE        | TRAWL     |               | 275          | 56 01 89          | 132 42 96 | 302          |           | SURFACE Trawl     |              |               |                |                        |
| <del>20</del> |              |            |           |           |               |              |                   |           |              |           |                   |              |               |                |                        |
| <del>20</del> |              |            |           |           |               |              |                   |           |              |           |                   |              |               |                |                        |

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|--------------------|--------------|------------|-----------|------------------|---------------|--------------|-----------|-------------------------|--------------|-----------|----------------|--------------------------|---------------|----------------|-----------------------|
| Day                | Station Name | Time (UTC) | Time Code | Cast Type        | Firing Method | Event Number | Position  |                         | Bottom Depth | Max Depth | Sample Numbers | # of Bottles             | Watch keepers | Trans. cleaned | Comments              |
|                    |              |            |           |                  |               |              | Latitude  | Longitude               |              |           |                |                          |               |                |                       |
| 20                 | ISCA 22      | 1901       | BC        | CTD              |               | 276          | 55 57 53  | 132 37 24               | 393          |           |                | 1                        | H.M.          |                | T: 5.35 S: 29.47      |
|                    |              | 1905       | BO        |                  |               |              | 55 57 53  | 132 37 25               |              | 200       |                |                          |               |                | BOT@10m. SAL/CHL/NUTS |
|                    |              | 1908       | EN        |                  |               |              | 55 57 53  | 132 37 28               |              |           |                |                          |               |                |                       |
|                    |              | 1912       | BC        | NET              |               | 277          | 55 57 55  | 132 37 33               |              | 150       |                |                          |               |                | BONGO                 |
|                    |              | 2003       | BC        | TRAWL            |               | 278          | 55 57 189 | 132 36 474              | 378          |           | TOW AT         | 15m                      |               |                |                       |
| 20                 | ISCA 23      | 2103       | BC        | CTD              |               | 279          | 55 53 55  | 132 31 08               | 420          |           |                | 1                        |               |                | T: 5.30 S: 29.32      |
|                    |              | 2107       | BO        |                  |               |              | 55 53 57  | 132 31 08               |              | 200       |                |                          |               |                | BOT@10m. SAL/CHL/NUTS |
|                    |              | 2110       | EN        |                  |               |              | 55 53 59  | 132 31 10               |              |           |                |                          |               |                |                       |
|                    |              | 2116       | BC        | NET              |               | 280          | 55 53 62  | 132 31 14               |              | 150       |                |                          |               |                | BONGO                 |
|                    |              | 2142       | BC        | TRAWL            |               | 281          | 55 53 008 | 132 30 290              | 511          |           | TOW AT         | 15m                      |               |                |                       |
| 20                 | ISCA 24      | 2247       | BC        |                  |               | 282          | 55 48 30  | 132 24 93               | 604          |           |                | 1                        |               |                | T: 5.44 S: 29.32      |
|                    |              | 2251       | BO        |                  |               |              | 55 48 31  | 132 24 95               |              | 200       |                |                          |               |                | BOT@10m. SAL/CHL/NUTS |
|                    |              | 2254       | EN        |                  |               |              | 55 48 30  | 132 24 90               |              |           |                |                          |               |                |                       |
|                    |              | 2300       | BC        |                  |               | 283          | 55 48 30  | 132 24 98               |              | 150       |                |                          |               |                | BONGO                 |
|                    |              | 23         | BC        |                  |               | 284          | 55 47 427 | 132 24 326              | 528          |           | SURFACE TOW    |                          |               |                |                       |

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|--------------------|--------------|------------|-----------|------------------|---------------|--------------|----------|-------------------------|--------------|-----------|----------------|--------------------------|---------------|----------------|---------------------------|
| Day                | Station Name | Time (UTC) | Time Code | Cast Type        | Firing Method | Event Number | Position |                         | Bottom Depth | Max Depth | Sample Numbers | # of Bottles             | Watch keepers | Trans. cleaned | Comments                  |
|                    |              |            |           |                  |               |              | Latitude | Longitude               |              |           |                |                          |               |                |                           |
| 21                 | 15GA 25      | 0030       | BC        | CTD              |               | 285          | 55 43 95 | 132 16 37               | 414          |           |                | 1                        | H.M.          |                | T: 5.38 S: 29.41          |
|                    |              | 0034       | BO        |                  |               |              | 55 43 98 | 132 16 38               |              | 200       |                |                          |               |                | Bottle 10m - SAL/CHL/NUIS |
|                    |              | 0038       | CH        |                  |               |              | 55 44 01 | 132 16 39               |              |           |                |                          |               |                |                           |
|                    |              | 0043       | BC        | NET              |               | 286          | 55 44 07 | 132 16 44               |              | 150       |                |                          |               |                | BONGO                     |
|                    |              | 0133       | BC        | TRAWL            |               | 287          | 55 43 49 | 132 16 146              | 260          |           | SORFACE        | Tail                     |               |                |                           |
| 21                 | 1BC 08       | 1532       | BC        | CTD              |               | 288          | 55 07 97 | 129 55 74               | 460          |           |                | 1                        |               | ✓              | T: 5.51 S: 29.65          |
|                    |              | 1536       | BO        |                  |               |              | 55 07 97 | 129 55 71               |              | 200       |                |                          |               |                | Bottle 10m - SAL/CHL/NUIS |
|                    |              | 1539       | CH        |                  |               |              | 55 07 97 | 129 55 81               |              |           |                |                          |               |                |                           |
|                    |              | 1544       | BC        | NET              |               | 299          | 55 07 94 | 129 55 91               |              | 150       |                |                          |               |                | BONGO                     |
|                    |              | 1608       | BC        | TRAWL            |               | 290          | 55 06 96 | 129 57 030              |              |           | SORFACE        | Tail                     |               |                |                           |
| 21                 | 1BC 09       | 1704       | BC        | CTD              |               | 291          | 55 01 70 | 130 00 85               | 162          |           |                | 1                        |               |                | T: 5.52 S: 29.16          |
|                    |              | 1707       | BO        |                  |               |              | 55 01 72 | 130 00 83               |              | 155       |                |                          |               |                | Bottle 10m - SAL/CHL/NUIS |
|                    |              | 1710       | CH        |                  |               |              | 55 01 72 | 130 00 82               |              |           |                |                          |               |                |                           |
|                    |              | 1715       | BC        | NET              |               | 292          | 55 01 73 | 130 00 79               |              | 148       |                |                          |               |                | BONGO                     |
|                    |              | 1740       | BC        | TRAWL            |               | 293          | 55 00 82 | 130 00 878              | 140          |           | SORFACE        | Tail                     |               |                |                           |

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|--------------------|--------------|------------|-----------|------------------|---------------|--------------|-----------|-------------------------|--------------|-----------|----------------|--------------------------|---------------|----------------|----------------------|
| Day                | Station Name | Time (UTC) | Time Code | Cast Type        | Firing Method | Event Number | Position  |                         | Bottom Depth | Max Depth | Sample Numbers | # of Bottles             | Watch keepers | Trans. cleaned | Comments             |
|                    |              |            |           |                  |               |              | Latitude  | Longitude               |              |           |                |                          |               |                |                      |
| 21                 | IBC 10       | 1836       | BC        | CTD              |               | 294          | 54 57 20  | 130 04 86               | 300          |           |                | 1                        | H.M.          |                | T: 5.66 S: 30.22     |
|                    |              | 1846       | BO        |                  |               |              | 54 57 21  | 130 04 84               |              | 200       |                |                          |               |                | BOT@10m SAL/CHL/NUTS |
|                    |              | 1843       | EN        |                  |               |              | 54 57 21  | 130 04 83               |              |           |                |                          |               |                |                      |
|                    |              | 1849       | BE        | NET              |               | 295          | 54 57 24  | 130 04 77               |              | 150       |                |                          |               |                | BONGO                |
|                    |              | 1908       | BE        | TRAWL            |               | 296          | 54 56 562 | 130 05 721              | 311          |           | SURFACE        | Trawl                    |               |                |                      |
| 21                 | IBC 11       | 2017       | BC        | CTD              |               | 297          | 54 50 22  | 130 11 26               | 368          |           |                | 1                        |               |                | T: 5.71 S: 30.01     |
|                    |              | 2021       | BO        |                  |               |              | 54 50 23  | 130 11 24               |              | 200       |                |                          |               |                | BOT@10m SAL/CHL/NUTS |
|                    |              | 2025       | EN        |                  |               |              | 54 50 23  | 130 11 25               |              |           |                |                          |               |                |                      |
|                    |              | 2030       | BE        | NET              |               | 298          | 54 50 23  | 130 11 29               |              | 150       |                |                          |               |                | BONGO                |
|                    |              | 2050       | BE        | TRAWL            |               | 299          | 54 49 593 | 130 11 699              | 350          |           | SURFACE        | Trawl                    |               |                |                      |
| 21                 | IBC 12       | 2157       | BC        | CTD              |               | 300          | 54 45 63  | 130 19 71               | 465          |           |                | 1                        |               |                | T: 5.98 S: 30.44     |
|                    |              | 2201       | BO        |                  |               |              | 54 45 64  | 130 19 67               |              | 200       |                |                          |               |                | BOT@10m SAL/CHL/NUTS |
|                    |              | 2205       | EN        |                  |               |              | 54 45 66  | 130 19 66               |              |           |                |                          |               |                |                      |
|                    |              | 2210       | BE        | NET              |               | 301          | 54 45 69  | 130 19 69               |              | 150       |                |                          |               |                | BONGO                |
|                    |              | 2232       | BE        | TRAWL            |               | 302          | 54 45 197 | 130 20 894              |              |           | SURFACE        | Trawl                    |               |                |                      |

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## DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

| Month MARCH |              |            |           | Year 2005-03 |               |              | Ship W. E. RICKER |            |              |           | Cruise ID 2005-03 |              |               |                |                      |
|-------------|--------------|------------|-----------|--------------|---------------|--------------|-------------------|------------|--------------|-----------|-------------------|--------------|---------------|----------------|----------------------|
| Day         | Station Name | Time (UTC) | Time Code | Cast Type    | Firing Method | Event Number | Position          |            | Bottom Depth | Max Depth | Sample Numbers    | # of Bottles | Watch keepers | Trans. cleaned | Comments             |
|             |              |            |           |              |               |              | Latitude          | Longitude  |              |           |                   |              |               |                |                      |
| 21          | IBC 13       | 2337       | BC        | CTD          |               | 303          | 54 40 18          | 130 26 82  | 543          |           |                   | 1            | H.M.          |                | T: 5.95 S: 28.48     |
|             |              | 2341       | BO        |              |               |              | 54 40 24          | 130 26 75  |              | 200       |                   |              |               |                | BOTOM - SAL/CHL/NUIS |
|             |              | 2345       | EN        |              |               |              | 54 40 28          | 130 26 70  |              |           |                   |              |               |                |                      |
|             |              | 2355       | BC        | NET          |               | 304          | 54 40 34          | 130 26 62  |              | 150       |                   |              |               |                | BONGO                |
|             |              | 2415       | BC        | TRAWL        |               | 305          | 54 39 836         | 130 27 233 | 395          |           | SURFACE           | TEN          |               |                |                      |
| 22          | IBC 14       | 0138       | BC        | CTD          |               | 306          | 54 38 01          | 130 30 38  | 104          |           |                   | 1            |               |                | T: 6.15 S: 29.51     |
|             |              | 0140       | BO        |              |               |              | 54 38 03          | 130 30 39  |              | 95        |                   |              |               |                | BOTOM - SAL/CHL/NUIS |
|             |              | 0142       | EN        |              |               |              | 54 38 07          | 130 30 40  |              |           |                   |              |               |                |                      |
|             |              | 0149       | BC        | NET          |               | 307          | 54 38 19          | 130 30 47  |              | 150       |                   |              |               |                | BONGO                |
|             |              | 0202       | BC        | TRAWL        |               | 308          | 54 37 520         | 130 30 571 | 201          |           | SURFACE           | TEN          |               |                |                      |
| 22          | IBC 15       | 1456       | BC        | CTD          |               | 309          | 54 33 80          | 130 31 80  | 186          |           |                   | 1            |               | ✓              | T: 6.56 S: 29.91     |
|             |              | 1500       | BO        |              |               |              | 54 33 85          | 130 31 83  |              | 175       |                   |              |               |                | BOTOM - SAL/CHL/NUIS |
|             |              | 1503       | EN        |              |               |              | 54 33 90          | 130 31 85  |              |           |                   |              |               |                |                      |
|             |              | 1507       | BC        | NET          |               | 310          | 54 33 97          | 130 31 88  |              | 150       |                   |              |               |                | BONGO                |
|             |              | 1528       | BC        | TRAWL        |               | 311          | 54 33 289         | 130 31 855 | 169          |           | SURFACE           | TEN          |               |                |                      |

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|--------------------|--------------|------------|-----------|------------------|---------------|--------------|-------------------------|------------|--------------|-----------|--------------------------|--------------|---------------|----------------|-----------------------|
| Day                | Station Name | Time (UTC) | Time Code | Cast Type        | Firing Method | Event Number | Position                |            | Bottom Depth | Max Depth | Sample Numbers           | # of Bottles | Watch keepers | Trans. cleaned | Comments              |
|                    |              |            |           |                  |               |              | Latitude                | Longitude  |              |           |                          |              |               |                |                       |
| 22                 | IBC 16       | 16 27      | BC        | CTD              |               | 312          | 54 28 26                | 130 31 34  | 94           |           |                          | 1            | H.M.          |                | T: 6.24 S: 28.22      |
|                    |              | 16 29      | BO        |                  |               |              | 54 28 30                | 130 31 29  |              | 85        |                          |              |               |                | Bottle - SAL/CHL/NOTS |
|                    |              | 16 31      | EN        |                  |               |              | 54 28 30                | 130 31 27  |              |           |                          |              |               |                |                       |
|                    |              | 16 35      | BE        | NET              |               | 313          | 54 28 30                | 130 31 19  |              | 72        |                          |              |               |                | BONGO                 |
|                    |              | 16 51      | BE        | TRAWL            |               | 314          | 54 27 434               | 130 31 258 | 104          |           | SURFACE Trawl            |              |               |                |                       |
| 22                 | IBC 17       | 17 52      | BC        | CTD              |               | 315          | 54 21 81                | 130 33 92  | 100          |           |                          | 1            |               |                | T: 6.02 S: 27.58      |
|                    |              | 17 54      | BO        |                  |               |              | 54 21 80                | 130 33 94  |              | 95        |                          |              |               |                | Bottle - SAL/CHL/NOTS |
|                    |              | 17 56      | EN        |                  |               |              | 54 21 79                | 130 33 96  |              |           |                          |              |               |                |                       |
|                    |              | 18 00      | BE        | NET              |               | 316          | 54 21 80                | 130 34 00  |              | 94        |                          |              |               |                | BONGO                 |
|                    |              | 18 16      | BE        | TRAWL            |               | 317          | 54 21 121               | 130 35 138 | 71           |           | SURFACE Trawl            |              |               |                |                       |
| 22                 | IBC 18       | 20 00      | BC        | CTD              |               | 318          | 54 13 68                | 130 44 49  | 160          |           |                          | 1            |               |                | T: 7.01 S: 31.05      |
|                    |              | 20 03      | BO        |                  |               |              | 54 13 71                | 130 44 39  |              | 150       |                          |              |               |                | Bottle - SAL/CHL/NOTS |
|                    |              | 20 05      | EN        |                  |               |              | 54 13 71                | 130 44 35  |              |           |                          |              |               |                |                       |
|                    |              | 20 12      | BE        | NET              |               | 319          | 54 13 75                | 130 44 29  |              | 143       |                          |              |               |                | BONGO                 |
|                    |              | 20 31      | BE        | TRAWL            |               | 320          | 54 13 040               | 130 42 680 | 120          |           | SURFACE Trawl            |              |               |                |                       |

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|--------------------|--------------|------------|-----------|------------------|---------------|--------------|-----------|--------------------------|--------------|-----------|----------------|--------------------------|---------------|----------------|-------------------------|
| Day                | Station Name | Time (UTC) | Time Code | Cast Type        | Firing Method | Event Number | Position  |                          | Bottom Depth | Max Depth | Sample Numbers | # of Bottles             | Watch keepers | Trans. cleaned | Comments                |
|                    |              |            |           |                  |               |              | Latitude  | Longitude                |              |           |                |                          |               |                |                         |
| 22                 | IBC 19       | 2130       | BE        | CTD              |               | 321          | 54 09 52  | 130 38 40                | 78           |           |                | 1                        | 4 m.          |                | T: 7.24 S: 31.08        |
|                    |              | 2132       | BO        |                  |               |              | 54 09 51  | 130 38 40                |              | 70        |                |                          |               |                | BOT 10 m - SAL/CHL/NUTS |
|                    |              | 2134       | EN        |                  |               |              | 54 09 51  | 130 38 39                |              |           |                |                          |               |                |                         |
|                    |              | 2140       | BE        | NET              |               | 322          | 54 09 54  | 130 38 38                |              | 69        |                |                          |               |                | BONGO                   |
|                    |              | 2154       | BE        | TRAWL            |               | 323          | 54 08 961 | 130 37 890               | 79           |           |                |                          |               |                |                         |
| 22                 | IBC 20       | 2241       | BE        | CTD              |               | 324          | 54 06 54  | 130 34 38                | 65           |           |                | 1                        |               |                | T: 7.34 S: 31.17        |
|                    |              | 2243       | BO        |                  |               |              | 54 06 53  | 130 34 36                |              | 55        |                |                          |               |                | BOT 10 m - SAL/CHL/NUTS |
|                    |              | 2245       | EN        |                  |               |              | 54 06 52  | 130 34 34                |              |           |                |                          |               |                |                         |
|                    |              | 2250       | BE        | NET              |               | 325          | 54 06 49  | 130 34 30                |              | 55        |                |                          |               |                | BONGO                   |
|                    |              | 2308       | BE        | TRAWL            |               | 326          | 54 06 448 | 130 32 939               | 82           |           | SURFACE        | Trawl                    |               |                |                         |
| 23                 | IBC 21       | 0148       | BE        | CTD              |               | 327          | 54 04 39  | 130 40 14                | 146          |           |                | 1                        |               |                | T: 7.16 S: 30.63        |
|                    |              | 0151       | BO        |                  |               |              | 54 04 40  | 130 40 15                |              | 140       |                |                          |               |                | BOT 10 m - SAL/CHL/NUTS |
|                    |              | 0154       | EN        |                  |               |              | 54 04 39  | 130 40 15                |              |           |                |                          |               |                |                         |
|                    |              | 0159       | BE        | NET              |               | 328          | 54 04 39  | 130 40 16                |              |           |                |                          |               |                | BONGO                   |
|                    |              | 0215       | BE        | TRAWL            |               | 329          | 54 03 995 | 130 41 222               | 79           |           | SURFACE        | Trawl                    |               |                |                         |
|                    |              |            |           |                  |               |              |           |                          |              |           |                |                          |               |                |                         |
|                    |              |            |           |                  |               |              |           |                          |              |           |                |                          |               |                |                         |

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|-------------|--------------|------------|-----------|-----------|---------------|--------------|-----------|-------------------|--------------|-----------|----------------|-------------------|---------------|----------------|------------------------|
| Day         | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position  |                   | Bottom Depth | Max Depth | Sample Numbers | # of Bottles      | Watch keepers | Trans. cleaned | Comments               |
|             |              |            |           |           |               |              | Latitude  | Longitude         |              |           |                |                   |               |                |                        |
| 23          | H 08         | 1450       | BC        | CTD       |               | 330          | 52 35 64  | 130 59 98         | 115          |           |                | 1                 | H.M.          | ✓              | T: 7.65 S: 31.66       |
|             |              | 1452       | BO        |           |               |              | 52 35 64  | 130 59 99         |              | 110       |                |                   |               |                | BOT@10m - SAL/CHL/NOTS |
|             |              | 1454       | EN        |           |               |              | 52 35 62  | 131 00 01         |              |           |                |                   |               |                |                        |
|             |              | 1500       | BC        | NET       |               | 331          | 52 35 62  | 131 00 02         |              | 105       |                |                   |               |                | BONGO                  |
|             |              | 1516       | BC        | TRAWL     |               | 332          | 52 35 413 | 130 58 824        | 108          |           | SURFACE TOW    |                   |               |                |                        |
| 23          | H 07         | 1637       | BC        | CTD       |               | 333          | 52 32 32  | 130 44 75         | 119          | 110       |                | 1                 |               |                | T: 7.62 S: 31.68       |
|             |              | 1639       | BO        |           |               |              | 52 32 36  | 130 44 80         |              |           |                |                   |               |                | BOT@10m - SAL/CHL/NOTS |
|             |              | 1641       | EN        |           |               |              | 52 32 38  | 130 44 82         |              |           |                |                   |               |                |                        |
|             |              | 1646       | BC        | NET       |               | 334          | 52 32 42  | 130 44 90         |              | 106       |                |                   |               |                | BONGO                  |
|             |              | 1703       | BC        | TRAWL     |               | 335          | 52 32 206 | 130 44 123        | 116          |           | SURFACE TOW    |                   |               |                |                        |
| 23          | H 06         | 1837       | BC        | CTD       |               | 336          | 52 28 94  | 130 29 10         | 173          |           |                | 1                 |               |                | T: 7.52 S: 31.52       |
|             |              | 1841       | BO        |           |               |              | 52 28 96  | 130 29 09         |              | 165       |                |                   |               |                | BOT@10m - SAL/CHL/NOTS |
|             |              | 1843       | EN        |           |               |              | 52 28 97  | 130 29 10         |              |           |                |                   |               |                |                        |
|             |              | 1848       | BC        | NET       |               | 337          | 52 28 99  | 130 29 12         |              | 150       |                |                   |               |                | BONGO                  |
|             |              | 1908       | BC        | TRAWL     |               | 338          | 52 28 701 | 130 27 752        | 172          |           | SURFACE TOW    |                   |               |                |                        |

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|--------------------|--------------|------------|-----------|------------------|---------------|--------------|-----------|-------------------------|--------------|-----------|----------------|--------------------------|---------------|----------------|-----------------------|
| Day                | Station Name | Time (UTC) | Time Code | Cast Type        | Firing Method | Event Number | Position  |                         | Bottom Depth | Max Depth | Sample Numbers | # of Bottles             | Watch keepers | Trans. cleaned | Comments              |
|                    |              |            |           |                  |               |              | Latitude  | Longitude               |              |           |                |                          |               |                |                       |
| 23                 | H 05         | 20 34      | BC        | CTD              |               | 339          | 52 25 57  | 130 13 24               | 326          |           |                | 1                        | H.M.          |                | T: 7.80 S: 31.55      |
|                    |              | 20 38      | BO        |                  |               |              | 52 25 57  | 130 13 26               |              | 200       |                |                          |               |                |                       |
|                    |              | 20 42      | CH        |                  |               |              | 52 25 56  | 130 13 29               |              |           |                |                          |               |                | BOT 10m - SAL/CAL/NTS |
|                    |              | 20 49      | BE        | NET              |               | 340          | 52 25 62  | 130 13 31               |              | 150       |                |                          |               |                |                       |
|                    |              | 21 07      | BE        | TRAWL            |               | 341          | 52 25 378 | 130 12 333              | 327          |           | SURFACE        | Tow                      |               |                | BONGO                 |
| 23                 | H 04         | 22 32      | BC        | CTD              |               | 342          | 52 22 22  | 129 57 43               | 197          |           |                | 1                        |               |                | T: 7.77 S: 31.50      |
|                    |              | 22 36      | BO        |                  |               |              | 52 22 20  | 129 57 47               |              | 190       |                |                          |               |                |                       |
|                    |              | 22 40      | CH        |                  |               |              | 52 22 17  | 129 57 50               |              |           |                |                          |               |                | BOT 10m - SAL/CAL/NTS |
|                    |              | 22 50      | BE        | NET              |               | 343          | 52 22 27  | 129 57 50               |              | 150       |                |                          |               |                |                       |
|                    |              | 23 09      | BE        | TRAWL            |               | 344          | 52 21 893 | 129 56 369              | 180          |           | SURFACE        | Tow                      |               |                | BONGO                 |
| 24                 | H 03         | 00 29      | BC        | CTD              |               | 345          | 52 18 91  | 129 41 93               | 222          |           |                | 1                        |               |                | T: 7.94 S: 31.23      |
|                    |              | 00 33      | BO        |                  |               |              | 52 18 90  | 129 41 80               |              | 200       |                |                          |               |                |                       |
|                    |              | 00 37      | CH        |                  |               |              | 52 18 91  | 129 41 79               |              |           |                |                          |               |                | BOT 10m - SAL/CAL/NTS |
|                    |              | 00 42      | BE        | NET              |               | 346          | 52 18 90  | 129 41 80               |              | 150       |                |                          |               |                |                       |
|                    |              |            |           | NO TRAWL         |               |              |           |                         |              |           |                |                          |               |                | BONGO                 |
|                    |              |            |           |                  |               |              |           |                         |              |           |                |                          |               |                | NO TRAWL              |

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| Day         | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position |                   | Bottom Depth | Max Depth | Sample Numbers | # of Bottles      | Watch keepers | Trans. cleaned | Comments               |
|             |              |            |           |           |               |              | Latitude | Longitude         |              |           |                |                   |               |                |                        |
| 24          | H 02         | 0153       | BG        | CTD       |               | 347          | 52 15 56 | 129 26 27         | 180          |           |                | 1                 | H.M.          |                | T: 7.84 S: 30.95       |
|             |              | 0156       | BO        |           |               |              | 52 15 55 | 129 26 27         |              | 170       |                |                   |               |                |                        |
|             |              | 0200       | EN        |           |               |              | 52 15 51 | 129 26 27         |              |           |                |                   |               |                | BOTEION - SAL/CHL/NUTS |
|             |              | 0205       | BG        | NET       |               | 348          | 52 15 43 | 129 26 26         |              | 150       |                |                   |               |                |                        |
|             |              | 0227       | BE        | TRAWL     |               | 349          | 52 15 06 | 129 25 15         | 150          |           | SURFACE TOW    |                   |               |                | BONGO                  |
| 24          | H 01         | 0349       | BG        | CTD       |               | 350          | 52 12 24 | 129 10 56         | 158          |           |                | 1                 |               |                | T: 7.82 S: 30.75       |
|             |              | 0352       | BO        |           |               |              | 52 12 24 | 129 10 54         |              | 150       |                |                   |               |                | BOTEION - SAL/CHL/NUTS |
|             |              | 0355       | EN        |           |               |              | 52 12 24 | 129 10 53         |              |           |                |                   |               |                |                        |
|             |              | 0401       | BE        | NET       |               | 351          | 52 12 22 | 129 10 52         |              |           |                |                   |               |                | BONGO                  |
|             |              |            |           | NO TRAWL  |               |              |          |                   |              |           |                |                   |               |                | NO TRAWL               |
| 24          | BL 22        | 1500       | BG        | CTD       |               | 352          | 52 22 97 | 126 49 29         | 225          |           |                | 1                 |               |                | T: 5.95 S: 29.25       |
|             |              | 1504       | BO        |           |               |              | 52 22 97 | 126 49 26         |              | 200       |                |                   |               |                | BOTEION - SAL/CHL/NUTS |
|             |              | 1508       | EN        |           |               |              | 52 22 94 | 126 49 23         |              |           |                |                   |               |                |                        |
|             |              | 1512       | BG        | NET       |               | 353          | 52 22 93 | 126 49 17         |              | 150       |                |                   |               |                | BONGO                  |
|             |              | 1533       | BG        | TRAWL     |               | 354          | 52 22 80 | 126 49 9          | 255          |           | SURFACE TOW    |                   |               |                |                        |

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|--------------------|--------------|------------|-----------|------------------|---------------|--------------|-----------|-------------------------|--------------|-----------|----------------|--------------------------|---------------|----------------|---------------------|
| Day                | Station Name | Time (UTC) | Time Code | Cast Type        | Firing Method | Event Number | Position  |                         | Bottom Depth | Max Depth | Sample Numbers | # of Bottles             | Watch keepers | Trans. cleaned | Comments            |
|                    |              |            |           |                  |               |              | Latitude  | Longitude               |              |           |                |                          |               |                |                     |
| 24                 | IBC 23       | 1651       | BC        | CTD              |               | 355          | 52 19 15  | 127 03 23               | 508          |           |                | 1                        | H.M.          |                | T: 6.21 S: 27.79    |
|                    |              | 1655       | BO        |                  |               |              | 52 19 18  | 127 03 25               |              | 200       |                |                          |               |                | BOTLON. SAL/CAL/NTS |
|                    |              | 1658       | EN        |                  |               |              | 52 19 19  | 127 03 29               |              |           |                |                          |               |                | NO BONGO OR TRAWL   |
| 24                 | IBC 24       | 1755       | BC        | CTD              |               | 356          | 52 15 86  | 127 16 78               | 567          |           |                | 1                        |               |                | T: 6.20 S: 28.07    |
|                    |              | 1759       | BO        |                  |               |              | 52 15 85  | 127 16 77               |              | 200       |                |                          |               |                | BOTLON. SAL/CAL/NTS |
|                    |              | 1802       | EN        |                  |               |              | 52 15 83  | 127 16 78               |              |           |                |                          |               |                |                     |
|                    |              | 1807       | BC        | NET              |               | 357          | 52 15 83  | 127 16 77               |              | 150       |                |                          |               |                | BONGO               |
|                    |              | 1810       | BC        | TRAWL            |               | 358          | 52 14 724 | 127 18 952              | 570          |           | SURFACE TAW    |                          |               |                |                     |
| 24                 | IBC 25       | 2009       | BC        | CTD              |               | 359          | 52 07 77  | 127 36 95               | 425          |           |                | 1                        |               |                | T: 6.32 S: 28.51    |
|                    |              | 2013       | BO        |                  |               |              | 52 07 73  | 127 37 06               |              | 200       |                |                          |               |                | BOTLON. SAL/CAL/NTS |
|                    |              | 2016       | EN        |                  |               |              | 52 07 71  | 127 37 05               |              |           |                |                          |               |                |                     |
|                    |              | 2022       | BC        | NET              |               | 360          | 52 07 67  | 127 37 12               |              | 150       |                |                          |               |                | BONGO               |
|                    |              | 2042       | BC        | TRAWL            |               | 361          | 52 06 682 | 127 37 996              | 350          |           | SURFACE TAW.   |                          |               |                |                     |
|                    |              |            |           |                  |               |              |           |                         |              |           |                |                          |               |                |                     |
|                    |              |            |           |                  |               |              |           |                         |              |           |                |                          |               |                |                     |
|                    |              |            |           |                  |               |              |           |                         |              |           |                |                          |               |                |                     |
|                    |              |            |           |                  |               |              |           |                         |              |           |                |                          |               |                |                     |
|                    |              |            |           |                  |               |              |           |                         |              |           |                |                          |               |                |                     |
|                    |              |            |           |                  |               |              |           |                         |              |           |                |                          |               |                |                     |
|                    |              |            |           |                  |               |              |           |                         |              |           |                |                          |               |                |                     |
|                    |              |            |           |                  |               |              |           |                         |              |           |                |                          |               |                |                     |

## Cast type:

BOT = bottle cast, no CTD  
 CTD = CTD without Rosette  
 ROS = Rosette plus CTD

## USW = sea water loop

MOR = mooring  
 NET = net haul  
 DRF = drifter

## bottle firing method:

US = up / stop  
 UN = up / no stop  
 DN = down / no stop

## Time Code

BE = beginning time of cast  
 BO = bottom time of cast  
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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175-327

## DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

| Month MARCH |              |            |           | Year 2005 |               |              | Ship W. E. RICKER      |             |              |           | Cruise ID 2005-03 |              |               |                |                       |
|-------------|--------------|------------|-----------|-----------|---------------|--------------|------------------------|-------------|--------------|-----------|-------------------|--------------|---------------|----------------|-----------------------|
| Day         | Station Name | Time (UTC) | Time Code | Cast Type | Firing Method | Event Number | Position               |             | Bottom Depth | Max Depth | Sample Numbers    | # of Bottles | Watch keepers | Trans. cleaned | Comments              |
|             |              |            |           |           |               |              | Latitude               | Longitude   |              |           |                   |              |               |                |                       |
| 24          | IBC 26       | 2222       | BC        | CTD       |               | 362          | 51 56 45               | 127 49 14   | 125          |           |                   | 1            | H.M.          |                | T: 6.64 S: 29.15      |
|             |              | 2225       | BO        |           |               |              | 51 56 41               | 127 49 22   |              | 120       |                   |              |               |                | Bottle - SAL/CAL/NUTS |
|             |              | 2227       | EN        |           |               |              | 51 56 39               | 127 49 27   |              |           |                   |              |               |                |                       |
|             |              | 2233       | BC        | NGT       |               | 363          | 51 56 33               | 127 49 45   |              |           |                   |              |               |                | BONGO                 |
|             |              | 2252       | BE        | TRAWL     |               | 364          | 51 55 36.5             | 127 51 20.6 |              | 122       |                   |              |               |                | SURFACE TWR.          |
| 25          | IBC 27       | 0001       | BC        | CTD       |               | 365          | 51 48 16               | 127 54 22   | 259          |           |                   | 1            |               |                | T: 7.36 S: 29.85      |
|             |              | 0005       | BO        |           |               |              | 51 48 20               | 127 54 25   |              | 200       |                   |              |               |                | Bottle - SAL/CAL/NUTS |
|             |              | 0009       | EN        |           |               |              | 51 48 21               | 127 54 26   |              |           |                   |              |               |                |                       |
|             |              | 0014       | BC        | NGT       |               | 366          | 51 48 21               | 127 54 27   |              | 150       |                   |              |               |                | BONGO                 |
|             |              | 0034       | BE        | TRAWL     |               | 367          | 51 47 16.9             | 127 53 8.0  | 255          |           |                   |              |               |                | SURFACE TWR.          |
| 25          | IBC 28       | 0145       | BC        | CTD       |               | 368          | 51 41 50               | 127 54 45   | 318          |           |                   | 1            |               |                | T: 7.33 S: 29.71      |
|             |              | 0149       | BO        |           |               |              | 51 41 48               | 127 54 43   |              | 200       |                   |              |               |                | Bottle - SAL/CAL/NUTS |
|             |              | 0153       | EN        |           |               |              | 51 41 48               | 127 54 42   |              |           |                   |              |               |                |                       |
|             |              | NO         | BONGO OR  | TRAWL     |               |              | DOL PHINS IN THE WATER |             |              |           |                   |              |               |                |                       |
|             |              |            |           |           |               |              |                        |             |              |           |                   |              |               |                |                       |
|             |              |            |           |           |               |              |                        |             |              |           |                   |              |               |                |                       |
|             |              |            |           |           |               |              |                        |             |              |           |                   |              |               |                |                       |
|             |              |            |           |           |               |              |                        |             |              |           |                   |              |               |                |                       |
|             |              |            |           |           |               |              |                        |             |              |           |                   |              |               |                |                       |

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