# DAILY LOG

| CRUISE NUMBER | IOS 2001-027 |
|---|---|

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

| | |
|---|---|
| **DATE** | 7 August - 10 August 2001 |
| **VESSEL** | Vector (Steve Romaine) |
| **PROJECT** | NIS, Inlets, COPRA, USGS sediment, SoG CTD/Nutrients, etc. |

**Captain:** _____ **First Officer:** _____

**Second Officer:** _____ **Third Officer:** _____

**Mission Participants / Agencies:** _____

_____

**Scientific Personnel:** **Party Chief:** Steve Romaine

| Name | Watch | Cabin | Name | Watch | Cabin |
|---|---|---|---|---|---|
| Doug Moore | | | | | |
| Cindy Wright | | | | | |
| Linda White | | | | | |
| Lou Hobson | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |

**Second leg of Mission: Party Chief:** _____

| Name | Watch | Cabin | Name | Watch | Cabin |
|---|---|---|---|---|---|
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| | | | | | |
| | | | | | |
| | | | | | |
| number of bottles sampled 0 | | | | | |
| Sample rate 1 scan every 0.5 seconds | | | | | |

**Data logging computer:** _____

**Data acquisition program:** _____

CTD deck unit make: SBE model: 19 serial number: 1294

**Primary CTD**

Make: SBE model: 19 serial number: 1294

Primary temperature sensor serial number: _____ Calibration date: 17 June 99

Primary conductivity sensor serial number: _____ Calibration date: _____

Secondary temperature sensor serial number: _____ Calibration date: _____

Secondary conductivity sensor serial number: _____ Calibration date: _____

Other sensors: Trans 002792#60 s/n: _____

Other sensors: Fluro SCF 2356 s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

**Secondary CTD**

Make: _____ model: _____ serial number: _____

Primary temperature sensor serial number: _____ Calibration date: _____

Primary conductivity sensor serial number: _____ Calibration date: _____

Secondary temperature sensor serial number: _____ Calibration date: _____

Secondary conductivity sensor serial number: _____ Calibration date: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Comments: _____

# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

**Year** 2001 **Month** 08 **Ship** Vector **Cruise I.D.** 2001-027

| Day | Station I.D. | Cast Type | Time (UTC) | Time Code | Consec. Number | Latitude | Longitude | Position Code | Bottom Depth | Max Depth | Consec Sample # | # of Bottles | initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 07 | DS1 | CTD | ~~1102~~ 2102 | BE | 01 | 50 04.764 | 124 49.677 | ✓ | 345 | 340 | | | SR | Desolate Sound (0) |
| | (27000100) | | 2110 | BO | | | | | | | | | | |
| | | | 2115 | EN | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 07 | DS1 | NET | 2141 | BO | 02 | 50 04.817 | 124 49.271 | | 301 | 250 | | | [illegible] | Bongo VNH |
| | | | | | | | | | | | | | | |
| 07 | DS1 | BOT | 2140 | BE | 03 | 50 04.764 | 124 49.677 | | | 0 | | 1 | | Lou - phyto |
| | | | | | | | | | | | | | | |
| 07 | PS1 | NET | 2348 | BO | 04 | 50 13.166 | 124 44.795 | | 400 | 250 | | | [illegible] | BONGO VNH |
| | | | | | | | | | | | | | | Pendrell Sound |
| 08 | PS1 | BOT | 0000 | | 05 | 50. 13.166 | 124 49.795 | | | 0 | | 1 | | Lou H - PHYTO |
| | | | | | | | | | | | | | | |
| * 08 | PS1 | CTD | 0000 | BE | 06 | 50 13.173 | 124 44.707 | ✓ | 400 | 395 | | | SR | (1) |
| | | | 0009 | BO | | | | | | | | | | |
| | | | 0017 | EN | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| * 08 | HC1 | CTD | 0122 | BE | 07 | 50 12.697 | 124 33.052 | ✓ | 676 | 500 | | | SR | Actual station (3) |
| | | | 0133 | BO | | | | | | | | | | 1 NM north - thalis |
| | | | 0142 | EN | | | | | | | | | | MCS! |

Cast type: BOT = ottle cast; CTD = CTD; MOR = mooring; ROS = Rosette; NET = net haul; DRF = drifter; USW = sea water loop

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

**Year** 2001 **Month** AUGUST **Ship** VECTOR **Cruise I.D.** 2001-27

| Day | Station I.D. | Cast Type | Time (UTC) | Time Code | Consec. Number | Latitude | Longitude | Position Code | Bottom Depth | Max Depth | Consec Sample # | # of Bottles | initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 08 | HC1 | BONGO | 0152 | | 08 | 50 12.584 | 124 38.032 | | 680 | 250 | | | [illegible] | BONGO VNH |
| 08 | HC1 | BOTTLE | 0152 | | 09 | 50 12. | 124 38. | | 680 | SURF | | 1 | | LOU H. PHYTO |
| 08 | Brem Bay | BOXO | 3:43 | | 10 | 50 24 .547 | 124 38 718 | | 486 | 250 | | | | |
| 08 | Brem Bay | CTD | 4:04 | BE | 11 | 50 24.602 | 124 38.817 | X | 487 | | | | | (4) |
| | | | 4:14 | BO | | 50 24 646 | 124 38 875 | | | 465 | | | | |
| | | | 4:22 | EN | | 50 24 702 | 124 38 915 | | | | | | | |
| 08 | Brem Bay | GRAB | 4:55 | BO | 12 | 50 25 924 | 124 39 7771 | | ~123 | | | | | USGS #1 (150m wire out) |
| 08 | Brem Bay | NEUST. | 5:15 | BE | 13 | 50 25.789 | 124 39 753 | | 180 | surf | | | | Neuston net |
| | | | 5:35 | EN | | 50 25.281 | 124 39.762 | | | | | | | @ 1.5 kts, 15 min |
| 08 | Pryce Ch | NET | 7403 | BO | 14 | 50 17 840 | 124 51 983 | | 513 | 250 | | | | |

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## INSTITUTE OF OCEAN SCIENCES

**Year** 2001 **Month** AUGUST **Ship** VECTOR **Cruise I.D.** 2001-27

| Day | Station I.D. | Cast Type | Time (UTC) | Time Code | Consec. Number | Latitude | Longitude | Position Code | Bottom Depth | Max Depth | Consec Sample # | # of Bottles | initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 08 | Pruce Ck. | CTD | ~~7~~:14 | BE | 15 | 50 17 861 | 124 51 045 | X | 514 | | | | S.R. | (5) |
| | | | ~~7~~:25 | BO | | 50 17 884 | 124 51 108 | | | 500 | | | | |
| | | | ~~7~~:34 | EN | | 50 17 871 | 124 51 132 | | | | | | | |
| 09 | Ramsey Arm | CTD | 0836 | BE | 16 | 50 24.17 | 124 58.16 | X | 415 | | | | S.R. | (6) |
| | | | 08 43 | BO | | 50 24 243 | 124 58 201 | | | 400 | | | | |
| | | | 08 50 | EN | | 50 24 282 | 124 58 206 | | | | | | | |
| 08 | Ramsey Arm | ~~NET~~ | 09:01 | BO | 17 | 5024 293 | 124 58 190 | | | 250 | | | | BONGO |
| 08 | FRANCES BAY | NET. | 10:01 | BE | 18. | 50 20 645 | 125 02 054 | | 120 | 0 | | | | NORSTON |
| | | | | EN. | | 50 20 139 | 125 01 695 | | | | | | | |
| 08 | FRANCES BAY | GRAB. | 10:35 | BO | 19 | 50 20 642 | 125 02 01 | | 120 | 120 | | | | SMYTH MAC. |
| 08 | SYLVIA G 15 | NET. | 11:57 | BO | 20 | 50 23 331 | 125 04 561 | | 645 | 650 | | | | BONGO 2yr. |

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

**Year** 2001 **Month** AUGUST **Ship** VECTOR **Cruise I.D.** 2001-29

| Day | Station I.D. | Cast Type | Time (UTC) | Time Code | Consec. Number | Latitude | Longitude | Position Code | Bottom Depth | Max Depth | Consec Sample # | # of Bottles | initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 08 | STUART | CTD | 1209 | BE | 21 | 50 23.35 | 125 04.53 | X | 650 | | | | | (7) |
| | IS | | 12:20 | BO | | 50 23.402 | 125 04.440 | | 650 | 600 | | | | |
| | | | 12:31 | EN | | 50 23.422 | 125 04.380 | | 650 | | | | | |
| 08 | SUTIL CHANNEL | CTD | 14:02 | BE | 22 | 50 11.523 | 124 59.754 | X | 533 | 475 | | | | (8) |
| | | | 14:10 | BO | | 50 11.500 | 124 59 696 | | 533 | | | | | |
| | | | 14:19 | EN | | 50 11.478 | 124 59 696 | | 533 | | | | | |
| 08 | SUTIL CHANNEL | Bongo | 14:29 | BO | 23 | 50 11.433 | 124 59 664 | | 250 | 475 | | | | BONGO |
| 08 | SUTIL CHANNEL | BOT | 14:29 | EN | 24 | 50 11.419 | 124 59 658 | | 538 | 0 | | | | Phyto-Lou H. |
| 08 | REDONDA BAY | GRAB | 15:37 46 | BO | 25 | 5015.922 | 124 57.783 | | ~~105~~ 107 | ~~105~~ (OU WINCH METER) 116 | | | | SMYTH MACINTYRE |
| 08 | CAPE MUDGE | NET | 1841 | BO B | 26 | 49 53.88 | 125 02.93 | | 199 | 190 | | | | BONGO. INH |

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## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

**Year** 2001 **Month** AUGUST **Ship** VECTOR **Cruise I.D.** 2001-27

| Day | Station I.D. | Cast Type | Time (UTC) | Time Code | Consec. Number | Latitude | Longitude | Position Code | Bottom Depth | Max Depth | Consec Sample # | # of Bottles | initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 08 | CAPE | CTD | 1852 | BE | 27 | 49 53.94 | 125 02.92 | X | 216. | 210 | | 4 | | (9) |
| | MIDDLE | | 1858 | BO | | 49 53.962 | 125 02 886 | | | | | | | |
| | | | 19:03 | EN. | | 49 53.985 | 125 02 858 | | | | | | L.R. | |
| | | | | | | | | | | | | | | |
| 08 | CAPE | BOT | 1923 | BO | 28 | 49 53 9 | 125 02. 8 | | | | 1-4 | | C.W. | BOTTLE CAST FOR A P |
| | MIDDLE | | | | | | | | | | | | | 5, 10, 20, 30 m |
| | | | | | | | | | | | | | | |
| 03 | Malaspina | CTD | 2254 | BE | 29 | 49 41.96 | 124 14.35 | X | 297 | 290 | | | | (10) |
| | | | 2301 | BO | | 49 41.78 | 124 14.37 | | | | | | | |
| | | | | EN | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 08 | Malaspina | NET | 2316 | BO | 30 | 49 41.65 | 124 14.51 | | 299 | 250 | | | | Bongo/VNH |
| | | | | | | | | | | | | | | |
| 08 | Malaspina | BOT | 2317 | BE | 31 | 49 41.96 | 124 14.35 | | | | | | | Lou's bucket sample |
| | | | | | | | | | | | | | | |
| 09 | JE4 | CTD | 0122 | BE | 32 | 49 49.41 | 123.54.28 | X | 671 | | | | | Salinity @ 600m (less (11) |
| | | | 0133 | BO | | | | | 671 | 600 | | 1 | S.R. | 1.5m above CTD) |
| | JE | | | EN | | | | | 671 | | | | | |
| | | | | | | | | | | | | | | |

Cast type: BOT = bottle cast; CTD = CTD; MOR = mooring; ROS = Rosette; NET = net haul; DRF = drifter; USW = sea water loop

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**Year** 2001 **Month** AUGUST **Ship** VECTOR **Cruise I.D.** 2001-27

| Day | Station I.D. | Cast Type | Time (UTC) | Time Code | Consec. Number | Latitude | Longitude | Position Code | Bottom Depth | Max Depth | Consec Sample # | # of Bottles | initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | JE4 | BOT | 1823 | EN | 33 | 49 49.38 | 123° 54.28 | | 671 | 0 | | 1 | L.H. | PHYTO at Surf |
| 9 | Frail Fish | DRF | 0240 | BE | 34 | 49.48.094 | 124 02 620 | | 600 | 2 | | | S.R | C.W. |
| | | | | | | | | | | | | | [illegible] | L.W. |
| 9 | Hotham | CTD | 03:30 | BE | 35 | 49.48.094 | 124 02.622 | X | 686 | | | | | Salmon at 600 @ (12) |
| | JE3 | | 0342 | BO | | 49 48.06 | 124 02.67 | | | 600 | | 1 | | less 1.5m |
| | | | 0354 | EN | | 49 48.10 | 124 02.81 | | | | | | | * JE3 and Hotham |
| | | | | | | | | | | | | | | Stns combined CTD |
| 9 | HOTHAM | NET | 0407 | BO | 36 | 49 48.10 | 124 02.81 | | 686 | 250 | | | [illegible] | Bongo VNH |
| | JE3 | | | | | | | | | | | | | |
| 9 | Hotham | NET | 0510 | BE | 37 | 49 48.65 | 124 02.27 | | 677 | 0 | | | [illegible] | Neuston Surface |
| | JE3 | | 0535 | EN | | 49 48.20 | 124 02.78 | | 686 | 0 | | S.R | C.W. | 1.25 KTS 25 M/M |
| 9 | CPF2 | BOT | 1340 | MR | 38 | 49 27.88 | 124 30.05 | | 332 | 25 | | | C.W | 5, 10, 15, 25 m |
| 9 | CPF2 | NET | 1403 | BO | 39 | 49 27.83 | 124 30.12 | | 332 | 250 | | | | BONGO/VNH |
| | | | | | | | | | | | | | | COPPA |

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## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

**Year** 2001 **Month** AUGUST **Ship** VECTOR **Cruise I.D.** 2001

| Day | Station I.D. | Cast Type | Time (UTC) | Time Code | Consec. Number | Latitude | Longitude | Position Code | Bottom Depth | Max Depth | Consec Sample # | # of Bottles | initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | CPF2 | CTD | 1414 | BE | 40 | 49 27.82 | 124 30.12 | ↓ | 333 | 330 | | 4 | | |
| | | | 1422 | BO | | 49 27.84 | 124 30.10 | | | | | | | |
| | | | | EN | | 49 27.86 | 124 30.10 | | | | | | | |
| 9 | CPF2 | BOT | 1414 | BE | 41 | 49 27.82 | 124 30.12 | | 333 | 0 | | 1 | | Lo's bucket sample |
| 9 | CPF1 | BOT | 1615 | BE | 42 | 49 21.93 | 124 04.99 | | 242 | 25 | | | | |
| 9 | CPF1 | CTD | 1629 | BE | 43 | 49 21.93 | 124 04.99 | ↓ | 242 | 235 | | 4 | | |
| | | | 1634 | BO | | 49 21.94 | 124 04.99 | | | | | | | Lots of scattering on echosounder - usual gam. amph. |
| | | | 1639 | EN | | 49 21.93 | 124 05.03 | | | | | | | |
| 9 | CPF1 | NET | 1648 | BO | 44 | 49 21.95 | 124 05.07 | | | | | | | Bongo VNH |
| 9 | CPF1 | BOT | 1644 | BE | 45 | 49 21.95 | 124 05.07 | | | | | | | Lo's Bucket Sample |
| 9 | GEO1 | BOT | 1849 | MR | 46 | 49 14.84 | 123 44.62 | | 404 | 25 | | 4 | | 5, 10, 15, 25 |

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

| Year | | | | | Month | | | Ship | | | | Cruise I.D. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Day | Station I.D. | Cast Type | Time (UTC) | Time Code | Consec. Number | Latitude | Longitude | Position Code | Bottom Depth | Max Depth | Consec Sample # | # of Bottles | initials | Comments |
| 09 | GEO 1 | NET | 1902 | BO | 47 | 49 14.72 | 123 44.47 | | 404 | 250 | | | | Bongo VNH |
| 09 | GEO 1 | CTD | 1913 | BE | 48 | 49 14.69 | 123 44.56 | X | 404 | 398 | | | | 15 |
| | | | 1924 | BO | | 49 14.70 | 123 44.58 | | | | | | | |
| | | | 1931 | EN | | 49 14.67 | 123 44.49 | | | | | | | |
| 09 | Halibut Bank | BOT | 2029 | MR | 49 | 49 19.33 | 123 39.71 | | 234 | 25 | | 4 | | Cindy - |
| 09 | Halibut | CTD | 2034 | BE | 50 | 49 19.70 | 123 39.92 | X | 223 | 223 | | | | 16 |
| | | | 2040 | BO | | 49 19.66 | 123 40.12 | | | | | | | |
| | | | 2046 | EN | | 49 19.62 | 123 40.22 | | | | | | | |
| 09 | Halibut | BOT | 2050 | MR | 51 | 49 19.49 | 123 40.16 | | 234 | 25 | | 4 | | Lou - |
| 09 | Halibut | NET | 2105 | BO | 52 | 49 19.45 | 123 40.13 | | 212 | 205 | | | | Bongo VNH |
| 09 | Halibut | — | 2145 | DE | 53 | 49 20.30 | 123 43.5 | | | | | | | Clean ODAS buoy |
| | | | | | | | | | | | | | | with launch |

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## INSTITUTE OF OCEAN SCIENCES

**Year** 2001 **Month** AUGUST **Ship** VECTOR **Cruise I.D.** 2001-27

| Day | Station I.D. | Cast Type | Time (UTC) | Time Code | Consec. Number | Latitude | Longitude | Position Code | Bottom Depth | Max Depth | Consec Sample # | # of Bottles | initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09 | HOWE | BOT | 0139 | MR | 54 | 49 36.85 | 123 14.03 | | 277 | 25 | | 4 | | 5,10,15,25 |
| | SOUND | | | | | | | | | | | | | |
| 09 | Howe | NET | 0142 | BO | 55 | 49 36.84 | 123 14.03 | | 277 | 250 | | | | Bongo VNH |
| | | | | | | | | | | | | | | |
| 09 | Howe | CTD | 0150 | BE | 56 | 49 36.84 | 123 14.03 | X | 277 | 270 | | | | 17 |
| | | | 0158 | BO | | 49 36.82 | 123 14.03 | | | | | | | |
| | | | 0203 | EN | | 49 36.81 | 123 14.02 | | | | | | | |
| | | | | | | | | | | | | | | |
| 09 | Howe | BOT | 0142 | BE | 57 | 49 36 85 | 123 14.03 | | 277 | 0 | | | | Lou's Hi-tech bucket |
| | | | | | | | | | | | | | | |
| 10 | Horseshoe | NET | 5:00 | BE | 58 | 49 28 55 | 123 16 77 | | 254 | 0 | | | | NEUSTON @ SURFACE |
| | Bay N | | | | | | | | | | | | | 15 min @ 1.5 kts |
| | | | | | | | | | | | | | | |
| 10 | English | CTD | 6:59 | BE | 59 | 49 17 936 | 123 12 053 | X | 2925 | | | | | 18 |
| | Bay | | 7:02 | BO | | 49 17 934 | 123 12 061 | | | 26 | | | | |
| | | | 7:05 | EN | | 49 17 940 | 123 12 07 | | | | | | | |
| | | | | | | | | | | | | | | |
| 10 | ENGLISH | GRAB | 7:13 | | 60 | 49 17 95 | 123 12 14 | | 30 | 30 | | | | |
| | BAY | | | | | | | | | | | | | |

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**Year** | **Month** | **Ship** | **Cruise I.D.**

| Day | Station I.D. | Cast Type | Time (UTC) | Time Code | Consec. Number | Latitude | Longitude | Position Code | Bottom Depth | Max Depth | Consec Sample # | # of Bottles | initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | ENGLISH BAY | NET | 724 | BE | 61 | 49 17 966 | 123 12 932 | | 30 | | | | S.R. | SCOR |
| 10 | ENGLISH BAY | BOT | 7:24 | BE | 62 | 49 17 966 | 123 12 932 | | 30 | 0 | | | [illegible] | LOU'S BUCKET |
| 10 | SAANICH | NET | 14:13 | BO | 63 | 48 36.333 | 123 30.162 | | 226 | 214 | | | [illegible] | BONGO |
| 10 | SAANICH | CTD | 14:23 | BE | 64 | 48° 36.272' | 123° 30.329' | X | 226 | 210 | | | | |
| | | | 14:28 | BO | | 48° 36.246 | 123 30.394 | | | | | | | |
| | | | 14:33 | EN | | 48° 36.245 | 123° 30.376' | | | | | | [illegible] | |

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