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| Consec. Cast # 1 | | Vessel MILLER FREEMAN | | Proj. & Leg MF-94-01 | | Event # 238 | | Vessel Sta. I.D. | | Instructions | | | | | | | | | | Sta. Designation | | | | | | | | | | | | | | |
| Consec. Cast # | | Latitude N or S | | | Longitude E or W | | | Date JD = 47 | | | Time GMT | | Dry Bulb | | Wet Bulb | | Bar. mb | | SS | | Vis | | Wind Dir. | | Wind Sp. | | Cloud Type | | Weath. | | Bottom Depth, m | | Sta. Name or I.D. | |
| 001 | | 15 04 22.5 N | | | 15 04 08 W | | | 16 02 94 | | | 19 52 | | 02 00 | | 01 00 | | 12 28 | | 305 | | 101 | | 80 | | | | 194 | | 9437 | | | | | |
| CTD Type & SN 91220-A | | | | Monitor Checks | | | | | | | | Times JD/Time | | | | Data Location | | | | | | | | | | | | | | | | | | |
| Press. SN 26072 | | | | on Deck | | | | at Surface | | | | Data on | | | | Tape/Diskette I.D. | | | | File Name/Header | | | | | | | | | | | | | | |
| Temp. SN 701 | | | | Press. | | | | | | | | at Surface | | | | | | | | CAST 001 - 16 Feb 1953 | | | | | | | | | | | | | | |
| Cond. SN 304 | | | | Temp. | | | | | | | | Start Down | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Cond. | | | | | | | | at Bottom | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Other | | | | | | | | Start Up | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | at Surface | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Data off | | | | | | | | Remarks CTD w/ fluorometer & light meter | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 195 w/o (no CHLAM at 9437) | | | | | | | | | | | | | | |

| Pos. | Bot. | T Rack | Trip Depth | Time @ | | Monitor Values | | | | Conv. Mon. Values-CTD | | | | Sample Bot. Data | | | Sal. Bot. # | Other Samp. | Pos. |
|------|------|--------|------------|--------|------|----------------|-------|-------|-------|-----------------------|-------|--------|--------|------------------|--------|------|-------------|-------------|------|
| | | | | Depth | Trip | Press. | Temp. | Cond. | Other | Press. | Temp. | Cond. | Sal. | Therm-P | Avg Tw | Sal. | | | |
| 1 | | A | | 1054 | 1059 | | | | | 127.435 | 6.203 | 32.705 | 32.869 | | | | 01 | | 1 |
| 2 | | | | | | | | | | | | | | | | | | 2 | |
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| Consec. Cast # 002 | | Vessel MILLER FREEMAN | | Proj. & Leg MF-94-01 | | Event # 285 | | Vessel Sta. I.D. | | Instructions | | | | | | | | | | Sta. Designation 9436 | | | | | | | | | | | | | | |
| Consec. Cast # | | Latitude N or S Deg. Min. | | | Longitude E or W Deg. | | | Date JD = 47 Day Mo. Yr. | | | Time GMT Hr. Min. | | Dry Bulb | | Wet Bulb | | Bar. mb 1016.9 | | SS | | Vis. | | Wind Dir. | | Wind Sp. | | Cloud Type | | Weath. | | Bottom Depth, m | | Sta. Name or I.D. | |
| 002 | | 58 49 77 N | | | 150 54 39 W | | | 16 Feb 94 | | | 23 09 | | 05 5 | | 04 2 | | 11 | | 283 | | 00 | | 146 | | 20 | | 163 | | 9436 | | | | | |
| CTD Type & SN 91220-A | | | | Monitor Checks on Deck at Surface | | | | | | | | Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____ | | | | Data Location Tape/Diskette I.D. _____ File Name/Header CAST 002 - 16Feb2248 Remarks CTD w/ fluorometer & light meter 40 157 (no Chlam @ 9436) | | | | | | | | | | | | | | | | | | |
| CTD Type & SN | | 91220-A | | Monitor Checks on Deck at Surface | | | | | | | | Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____ | | | | Data Location Tape/Diskette I.D. _____ File Name/Header CAST 002 - 16Feb2248 Remarks CTD w/ fluorometer & light meter 40 157 (no Chlam @ 9436) | | | | | | | | | | | | | | | | | | |
| Press. SN | | 26072 | | Monitor Checks on Deck at Surface | | | | | | | | Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____ | | | | Data Location Tape/Diskette I.D. _____ File Name/Header CAST 002 - 16Feb2248 Remarks CTD w/ fluorometer & light meter 40 157 (no Chlam @ 9436) | | | | | | | | | | | | | | | | | | |
| Temp. SN | | 701 | | Monitor Checks on Deck at Surface | | | | | | | | Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____ | | | | Data Location Tape/Diskette I.D. _____ File Name/Header CAST 002 - 16Feb2248 Remarks CTD w/ fluorometer & light meter 40 157 (no Chlam @ 9436) | | | | | | | | | | | | | | | | | | |
| Cond. SN | | 304 | | Monitor Checks on Deck at Surface | | | | | | | | Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____ | | | | Data Location Tape/Diskette I.D. _____ File Name/Header CAST 002 - 16Feb2248 Remarks CTD w/ fluorometer & light meter 40 157 (no Chlam @ 9436) | | | | | | | | | | | | | | | | | | |
| _____ | | _____ | | Monitor Checks on Deck at Surface | | | | | | | | Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____ | | | | Data Location Tape/Diskette I.D. _____ File Name/Header CAST 002 - 16Feb2248 Remarks CTD w/ fluorometer & light meter 40 157 (no Chlam @ 9436) | | | | | | | | | | | | | | | | | | |
| _____ | | _____ | | Monitor Checks on Deck at Surface | | | | | | | | Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____ | | | | Data Location Tape/Diskette I.D. _____ File Name/Header CAST 002 - 16Feb2248 Remarks CTD w/ fluorometer & light meter 40 157 (no Chlam @ 9436) | | | | | | | | | | | | | | | | | | |

| Stn. No. | Bot. | T Rack | Trip Depth | Time @ | | Monitor Values | | | | Conv. Mon. Values-CTD | | | | Sample Bot. Data | | | Sal. Bot. # | Other Samp. | Pos. |
|----------|------|--------|------------|--------------------|--------------------|----------------|-------|-------|-------|-----------------------|-------|--------|--------|------------------|--------|------|-------------|-------------|------|
| | | | | Depth | Trip | Press. | Temp. | Cond. | Other | Press. | Temp. | Cond. | Sal. | Therm-P | Avg Tw | Sal. | | | |
| 1 | | A | | 2309 ^{hr} | 2314 ^{hr} | 100.359 | 6.359 | | | 100.359 | 6.359 | 32.631 | 32.636 | | | | 15 | | 1 |
| 2 | | | | | | | | | | | | | | | | | | 2 | |
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| Consec. Cast # 003 | | Vessel MILLER FREEMAN | | Proj. & Leg MF-94-01 | | Event # 291 | | Vessel Sta. I.D. | | Instructions | | | | | | | | | | Sta. Designation | | | | | | | | | | | | | | |
| Consec. Cast # | | Latitude N or S Deg. Min. | | | Longitude E or W Deg. | | | Date JD = 48 Day Mo. Yr. | | | Time GMT Hr. Min. | | Dry Bulb | | Wet Bulb | | Bar. mb 1009.1 | | S.S. | | Vis. | | Wind Dir. | | Wind Sp. | | Cloud Type | | Weath. | | Bottom Depth, m | | Sta. Name or I.D. | |
| 003 | | 585756 N | | | 1505761 W | | | 17 Feb 94 | | | 1654 | | 010 | | 000 | | 09 | | 38 | | 270 | | 14 | | 321 | | 0156 | | 9434 | | | | | |
| CTD Type & SN 91220-A | | | | | | Monitor Checks | | | | | | Times JD/Time | | | | | | Data Location | | | | | | | | | | | | | | | | |
| Press. SN 26072 | | | | | | on Deck | | | | | | Data on | | | | | | Tape/Diskette I.D. | | | | | | | | | | | | | | | | |
| Temp. SN 701 | | | | | | at Surface | | | | | | at Surface | | | | | | File Name/Header | | | | | | | | | | | | | | | | |
| Cond. SN 304 | | | | | | Press. _____ | | | | | | Start Down | | | | | | CAST 003-17 Feb 0139 | | | | | | | | | | | | | | | | |
| | | | | | | Temp. _____ | | | | | | at Bottom 0154 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Cond. _____ | | | | | | Start Up | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Other _____ | | | | | | at Surface | | | | | | Remarks CTD w/ fluorometer & light meter | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Data off | | | | | | w/ 150m | | | | | | | | | | | | | | | | |

| Pos. | Bot. | T Rack | Trip Depth | Time @ | | Monitor Values | | | | Conv. Mon. Values-CTD | | | | Sample Bot. Data | | | Sal. Bot. # | Other Samp. | Pos. | |
|------|------|--------|------------|--------|------|----------------|-------|-------|-------|-----------------------|-------|-------|------|------------------|--------|------|-------------|-------------|------|----|
| | | | | Depth | Trip | Press. | Temp. | Cond. | Other | Press. | Temp. | Cond. | Sal. | Therm-P | Avg Tw | Sal. | | | | |
| 1 | | A | | 0157 | | | | | | | | | | | | | | 21 | | 1 |
| 2 | | | | | | | | | | | | | | | | | | | | 2 |
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| Consec. Cast # 0040 | | Vessel MILLER FREEMAN | | Proj. & Leg MF-94-01 | | Event # 292 | | Vessel Sta. I.D. | | Instructions | | | | | | | | | | Sta. Designation | | | |
| Consec. Cast # | Latitude | | N or S | Longitude | | E or W | Date JD = | | | Time GMT | | Dry Bulb | Wet Bulb | Bar. mb | S.S. | Vis. | Wind Dir. | Wind Sp. | Cloud Type | Weath. | Bottom Depth, m | Sta. Name or I.D. | |
| | Deg. | Min. | Deg. | Day | Mo. | Yr. | Hr. | Min. | | | | | | | | | | | | | | | |
| 404 | 58 | 57 | 45 | N | 150 | 57 | 13 | W | 17 | FEB | 94 | 17 | 25 | 10 | 80 | 09 | 38 | 27 | 01 | 43 | 21 | 134 | 9434 |
| CTD Type & SN | | | 91220-A | | | Monitor Checks | | | | | | Times JD/Time | | | | Data Location | | | | | | | |
| Press. SN | | | 26072 | | | on Deck | | | at Surface | | | Data on | | | | Tape/Diskette I.D. | | | | File Name/Header | | | |
| Temp. SN | | | 701 | | | Press. | | | | | | at Surface | | | | | | | | CAST 004-17FEB0219 | | | |
| Cond. SN | | | 304 | | | Temp. | | | | | | Start Down | | | | | | | | | | | |
| | | | | | | Cond. | | | | | | at Bottom | | | | | | | | | | | |
| | | | | | | Other | | | | | | Start Up | | | | | | | | | | | |
| | | | | | | | | | | | | at Surface | | | | | | | | Remarks | | | |
| | | | | | | | | | | | | Data off | | | | | | | | w/ 130 (no cassette tapes) | | | |
| | | | | | | | | | | | | | | | | | | | | CTDW/Ch/am (no fluorometer) flight note | | | |
| Pos. | Bot. | T Rack | Trip Depth | Time @ | | Monitor Values | | | | Conv. Mon. Values-CTD | | | | Sample Bot. Data | | | | Sal. Bot. # | Other Samp. | Pos. | | | |
| | | | | Depth | Trip | Press. | Temp. | Cond. | Other | Press. | Temp. | Cond. | Sal. | Therm-P | Avg Tw | Sal. | | | | | | | |
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| Consec. Cast # 005 | | Vessel MILLER FREEMAN | | Proj. & Leg MF-94-01 | | Event # | | Vessel Sta. I.D. | | Instructions | | | | | | | | | | Sta. Designation | | | | | |
| Consec. Cast # | Latitude | | N or S | Longitude | | E or W | Date JD = | | | Time GMT | | Dry Bulb | Wet Bulb | Bar. mb | S.S. | Vis. | Wind Dir. | Wind Sp. | Cloud | Type | Weath. | Bottom Depth, m | Sta. Name or I.D. | | |
| | Deg. | Min. | | Deg. | | | Day | Mo. | Yr. | Hr. | Min. | | | | | | | | | | | | | | |
| 005 | 59 | 06 | 51 | N | 151 | 00 | 12 | W | 17 | FEB | 94 | 04 | 35 | 01 | 00 | 00 | 00 | 08 | 28 | 28 | 00 | 64 | 21 | 139 | 1432 |

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|------------------------------|--|----------------|------------|------------------|--------------------|------------------|---|
| CTD Type & SN <u>91220-A</u> | | Monitor Checks | | Times JD/Time | | Data Location | |
| | | on Deck | at Surface | Data on _____ | Tape/Diskette I.D. | File Name/Header | |
| Press. SN <u>26072</u> | | Press. _____ | _____ | at Surface _____ | _____ | _____ | CAST <u>005-17FEB0428</u> |
| Temp. SN <u>701</u> | | Temp. _____ | _____ | Start Down _____ | _____ | _____ | |
| Cond. SN <u>304</u> | | Cond. _____ | _____ | at Bottom _____ | _____ | _____ | |
| _____ | | Other _____ | _____ | Start Up _____ | _____ | _____ | |
| _____ | | _____ | | at Surface _____ | _____ | _____ | Remarks <u>CTD w/ fluorometer & light meter</u> <u>137 w/o</u> |
| _____ | | _____ | | Data off _____ | _____ | _____ | |

| Pos. | Bot. | T Rack | Trip Depth | Time @ | | Monitor Values | | | | Conv. Mon. Values-CTD | | | | Sample Bot. Data | | | Sal. Bot. # | Other Samp. | Pos. |
|------|------|--------|------------|--------|------|----------------|-------|-------|-------|-----------------------|-------|--------|--------|------------------|--------|------|-------------|-------------|------|
| | | | | Depth | Trip | Press. | Temp. | Cond. | Other | Press. | Temp. | Cond. | Sal. | Therm-P | Avg Tw | Sal. | | | |
| 1 | | | 100 | 043605 | 0441 | | | | | 99.864 | 5.768 | 31.490 | 31.939 | | | | 24 | | 1 |
| 2 | | | | | | | | | | | | | | | | | | | 2 |
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| Consec. Cast # 006 | | Vessel MILLER FREEMAN | | Proj. & Leg MF-94-01 | | Event# 297 | Vessel Sta. I.D. | | Instructions | | | | | | | | | | Sta. Designation 9432 | | | | | | | | |
| Consec. Cast # | Latitude Deg. Min. | | N or S | Longitude Deg. | | E or W | Date JD = Day Mo. Yr. | | | Time GMT Hr. Min. | | Dry Bulb | Wet Bulb | Bar. mb | S.S. | Vis. | Wind Dir. | Wind Sp. | Cloud | Type | Weath. | Bottom Depth, m | Sta. Name or I.D. | | | | |
| 006 | 59 | 06 | 49 | N | 151 | 00 | 13 | W | 17 | FEB | 94 | 04 | 57 | | | | | | | | | | 144 | 9432 | | | |
| CTD Type & SN 91220-A | | | Press. SN 26072 | | | Temp. SN 701 | | | Cond. SN 304 | | | Monitor Checks on Deck at Surface Press. _____ Temp. _____ Cond. _____ Other _____ | | | | Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____ | | | | Data Location Tape/Diskette I.D. _____ File Name/Header CAST 006-17FEB0448 | | | | Remarks CTD w/CHLAM & light meter (no cassette, tape) | | | |
| Pos. | Bot. | T Rack | Trip Depth | Time @ | | Monitor Values | | | | Conv. Mon. Values-CTD | | | | Sample Bot. Data | | | Sal. Bot. # | Other Samp. | Pos. | | | | | | | | |
| | | | | Depth | Trip | Press. | Temp. | Cond. | Other | Press. | Temp. | Cond. | Sal. | Therm-P | Avg Tw | Sal. | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
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| Consec. Cast # 007 | | Vessel MILLER FREEMAN | | Proj. & Leg MF-94-01 | | Event # 323 | | Vessel Sta. I.D. | | Instructions | | | | | | | | | | Sta. Designation 9403 | | | | | | | | | | | | | | |
| Consec. Cast # | | Latitude N or S Deg. Min. | | | Longitude E or W Deg. | | | Date JD = 48 Day Mo. Yr. | | | Time GMT Hr. Min. | | Dry Bulb | | Wet Bulb | | Bar. mb | | S.S. | | Vis. | | Wind Dir. | | Wind Sp. | | Cloud Type | | Weath. | | Bottom Depth, m | | Sta. Name or I.D. | |
| 007 | | 572970 N | | | 1544743 W | | | 17 FEB 94 | | | 19 26 | | - 1 8 | | - 2 0 0 4 | | 3 7 | | 3 1 5 | | 2 0 6 7 1 | | 0 1 9 3 | | 9 4 0 3 | | | | | | | | | |
| CTD Type & SN 91220-A | | Press. SN 26072 | | Temp. SN 701 | | Cond. SN 304 | | Monitor Checks on Deck at Surface | | | | Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____ | | | | Data Location Tape/Diskette I.D. _____ File Name/Header CAST 007-17Feb1994 Remarks CTD, LIGHT METER, FLUOROMETER WD 192 | | | | | | | | | | | | | | | | | | |
| Pos. | | Bot. | | T Rack | | Trip Depth | | Time @ Depth Trip | | Monitor Values Press. Temp. Cond. Other | | | | Conv. Mon. Values-CTD Press. Temp. Cond. Sal. | | | | Sample Bot. Data Therm-P Avg Tw Sal. | | | | Sal. Bot. # | | Other Samp. | | Pos. | | | | | | | | |
| 1 | | 25 | | A | | 10:27:35 | | 103236 | | | | | | 118.722 5.630 31.989 32.624 | | | | | | | | 66 | | | | 1 | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | 6 | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | 7 | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | 8 | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | 9 | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | 10 | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | 11 | | | | | | | | |
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| Consec. Cast # 009 | | Vessel MILLER FREEMAN | | Proj. & Leg MF-94-01 | | Event # 331 | | Vessel Sta. I.D. | | Instructions | | | | | | | | | | Sta. Designation | | | | | |
| Consec. Cast # | Latitude | | N or S | Longitude | | E or W | Date JD = 49 | | | Time GMT | | Dry Bulb | Wet Bulb | Bar. mb 1007.4 | S.S. | Vis. | Wind Dir. | Wind Sp. | Cloud | Type | Weath. | Bottom Depth, m | Sta. Name or I.D. | | |
| | Deg. | Min. | | Deg. | | | Day | Mo. | Yr. | Hr. | Min. | | | | | | | | | | | | | | |
| 009 | 57 | 37 | 08 | N | 155 | 05 | 30 | W | 18 | FEB | 94 | 00 | 02 | -3 | 8 | -4 | 0 | 07 | 58 | 300 | 42 | 50 | 1 | 253 | 9402 |
| CTD Type & SN 91220-A | | | Monitor Checks | | | Times JD/Time | | | Data Location | | | | | | | | | | | | | | | | |
| Press. SN 26072 | | | on Deck | | | at Surface | | | Data on | | | Tape/Diskette I.D. | | | | | | | | | | | File Name/Header | | |
| Temp. SN 701 | | | Press. | | | | | | at Surface | | | | | | | | | | | | | | CAST 009-17Feb 2350 | | |
| Cond. SN 304 | | | Temp. | | | | | | Start Down | | | | | | | | | | | | | | | | |
| | | | Cond. | | | | | | at Bottom | | | | | | | | | | | | | | | | |
| | | | Other | | | | | | Start Up | | | | | | | | | | | | | | | | |
| | | | | | | | | | at Surface | | | | | | | | | | | | | | | | |
| | | | | | | | | | Data off | | | | | | | | | | | | | | | | |
| Remarks | | | | | | | | | | | | | | | | | | | | | | CHL: 0,10,10,10,15,30,50 | | | |
| | | | | | | | | | | | | | | | | | | | | | | NUTS: 0,10,15,30,50,100,150,200 | | | |
| | | | | | | | | | | | | | | | | | | | | | | LIGHT METER, FLUORIMETER, NO CHL, NO NUTS | | | |

| Pos. | Bot. | T Rack | Trip Depth | Time @ | | Monitor Values | | | | Conv. Mon. Values-CTD | | | | Sample Bot. Data | | | Sal. Bot. # | Other Samp. | Pos. | |
|------|------|--------|------------|--------|------|----------------|-------|-------|-------|-----------------------|-------|--------|--------|------------------|--------|----------|-------------|-------------|---------|----|
| | | | | Depth | Trip | Press. | Temp. | Cond. | Other | Press. | Temp. | Cond. | Sal. | Therm-P | Avg Tr | Sal. | | | | |
| 1 | 25 | | 200 | 00:01 | | | | | | 200.462 | 5.360 | 32.212 | 39.100 | | chl | nutrient | 321 | ✓ 16 | not | 1 |
| 2 | 22 | | 150 | | | | | | | 149.805 | 5.660 | 32.607 | 32.600 | | | | 322 | 321 | not | 2 |
| 3 | 29 | | 100 | | | | | | | 99.581 | 5.689 | 31.839 | 32.408 | | | | 323 | | not | 3 |
| 4 | 6 | | 50 | | | | | | | 25.713 | 5.567 | 31.292 | 32.090 | | | | 31 | 324 | chl/not | 4 |
| 5 | 23 | | 30 | | | | | | | 30.206 | 4.874 | 30.820 | 32.467 | | | | 32 | 325 | chl/not | 5 |
| 6 | 30 | | 15 | | | | | | | 15.396 | 4.736 | 30.639 | 31.998 | | | | 32 | 326 | chl/not | 6 |
| 7 | 28 | | 10 | | | | | | | 10.475 | 4.746 | 30.649 | 32.002 | | | | 34 | | chl | 7 |
| 8 | 21 | | 10 | | | | | | | 10.669 | 4.750 | 30.656 | 32.006 | | | | 35 | | chl | 8 |
| 9 | 26 | | 10 | | | | | | | 9.763 | 4.742 | 30.647 | 32.003 | | | | 24 | 327 | chl/not | 9 |
| 10 | 20 | | 0 | | | | | | | | | | | | | | 33 | 328 | chl/not | 10 |
| 11 | | | | | | | | | | | | | | | | | | | | 11 |
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| Consec. Cast # 10 | | Vessel MILLER FREEMAN | | Proj. & Leg MF-94-01 | | Event # 339 | | Vessel Sta. I.D. | | Instructions | | | | | | | | | | Sta. Designation | | | | | | | | | | | | | | |
| Consec. Cast # | | Latitude N or S Deg. Min. | | | Longitude E or W Deg. | | | Date JD = Day Mo. Yr. | | | Time GMT Hr. Min. | | Dry Bulb | | Wet Bulb | | Bar. mb | | S.S. | | Vis. | | Wind Dir. | | Wind Sp. | | Cloud Type | | Weath. | | Bottom Depth, m | | Sta. Name or I.D. | |
| 010 | | 574114 N | | | 1551517 W | | | 18 FEB 94 | | | 0348 | | -4 | | 0-70 | | 848 | | 300 | | 401 | | 10 | | | | 296 | | 940 | | | | | |
| CTD Type & SN <u>91220-A</u> | | | | | | Monitor Checks | | | | | | Times JD/Time | | | | | | Data Location | | | | | | | | | | | | | | | | |
| Press. SN <u>26072</u> | | | | | | on Deck | | | | | | Data on _____ | | | | | | Tape/Diskette I.D. _____ | | | | | | | | | | | | | | | | |
| Temp. SN <u>701</u> | | | | | | at Surface | | | | | | at Surface _____ | | | | | | File Name/Header _____ | | | | | | | | | | | | | | | | |
| Cond. SN <u>304</u> | | | | | | Press. _____ | | | | | | Start Down _____ | | | | | | CAST <u>010-18Feb</u> | | | | | | | | | | | | | | | | |
| | | | | | | Temp. _____ | | | | | | at Bottom _____ | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Cond. _____ | | | | | | Start Up _____ | | | | | | Remarks <u>CHL: 0,10,10,10,30,50</u> | | | | | | | | | | | | | | | | |
| | | | | | | Other _____ | | | | | | at Surface _____ | | | | | | <u>NUTS: 0,10,30,50,100,150,200,250</u> | | | | | | | | | | | | | | | | |
| | | | | | | Data off _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pos. | | Bot. | | T Rack | | Trip Depth | | Time @ | | Monitor Values | | | | Conv. Mon. Values-CTD | | | | Sample Bot. Data | | | | Sal. | | Other | | Pos. | | | | | | | | |
| | | | | | | Depth Trip | | Press. Temp. Cond. Other | | Press. Temp. Cond. Sal. | | | | Therm-P Avg Tw Sal | | | | Bot. # | | Samp. | | | | | | | | | | | | | | |
| 1 | | 25 | | | | 250 03:50 03:56 | | | | | | 249.562 5.341 32.178 33.056 | | | | | | | | 22 | | NUTS | | 1 | | | | | | | | | | |
| 2 | | 22 | | | | 200 | | | | | | 198.881 5.677 31.961 32.441 | | | | | | | | | | NUTS | | 2 | | | | | | | | | | |
| 3 | | 29 | | | | 150 | | | | | | 150.447 5.203 31.272 32.130 | | | | | | | | | | NUTS | | 3 | | | | | | | | | | |
| 4 | | 6 | | | | 100 | | | | | | 101.302 5.215 31.144 32.673 | | | | | | | | | | NUTS | | 4 | | | | | | | | | | |
| 5 | | 23 | | | | 50 | | | | | | 50.627 5.255 31.135 32.050 | | | | 33 333 | | | | | | CHL/NUTS | | 5 | | | | | | | | | | |
| 6 | | 30 | | | | 30 | | | | | | 30.614 5.251 31.112 32.037 | | | | 25 334 | | | | | | CHL/NUTS | | 6 | | | | | | | | | | |
| 7 | | 28 | | | | 10 | | | | | | 9.654 4.256 29.964 31.679 | | | | 31 | | | | | | CHL | | 7 | | | | | | | | | | |
| 8 | | 21 | | | | 10 | | | | | | 9.682 4.236 29.942 31.673 | | | | 24 | | | | | | CHL | | 8 | | | | | | | | | | |
| 9 | | 26 | | | | 10 | | | | | | 9.246 4.248 29.955 31.676 | | | | 34 335 | | | | | | CHL/NUTS | | 9 | | | | | | | | | | |
| 10 | | 24 | | | | 0 | | | | | | 0.871 4.234 29.939 31.676 | | | | 35 336 | | | | | | CHL/NUTS | | 10 | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | 11 | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | 12 | | | | | | | | | | |

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| Consec. Cast # 011 | | Vessel MILLER FREEMAN | | Proj. & Leg MF-94-01 | | Event # 363 | | Vessel Sta. I.D. | | Instructions | | | | | | | | | | Sta. Designation 9443 | | | | |
| Consec. Cast # | Latitude Deg. Min. | | N or S | Longitude Deg. | | E or W | Date JD = Day Mo. Yr. | | | Time GMT Hr. Min. | | Dry Bulb | Wet Bulb | Bar. mb | S.S. | Vis. | Wind Dir. | Wind Sp. | Cloud | Type | Weath. | Bottom Depth, m | Sta. Name or I.D. | |
| 011 | 56 | 26 | 63 N | 156 | 57 | 94 W | 18 | Feb | 94 | 15 | 28 | -3 | 0 | -5 | 0 | 14 | 48 | 32 | 0 | 30 | - | Φ | 95 | 9442 |
| CTD Type & SN 91220-A | | | Monitor Checks on Deck at Surface | | | Times JD/Time Data on at Surface 152341 Start Down 152715 at Bottom Start Up at Surface Data off | | | Data Location Tape/Diskette I.D. File Name/Header CAST 011-18FEB1992 | | | Remarks CHL: 0,10,10,10,20,30,40,50 NUTS: 0,10,20,30,50,75,100 w/ 91 | | | | | | | | | | | | |
| Press. SN 26072 | | | Press. _____ | | | Data on _____ | | | Tape/Diskette I.D. _____ | | | File Name/Header _____ | | | | | | | | | | | | |
| Temp. SN 701 | | | Temp. _____ | | | Start Down _____ | | | Tape/Diskette I.D. _____ | | | File Name/Header _____ | | | | | | | | | | | | |
| Cond. SN 304 | | | Cond. _____ | | | at Bottom _____ | | | Tape/Diskette I.D. _____ | | | File Name/Header _____ | | | | | | | | | | | | |
| _____ | | | Other _____ | | | Start Up _____ | | | Tape/Diskette I.D. _____ | | | File Name/Header _____ | | | | | | | | | | | | |
| _____ | | | _____ | | | at Surface _____ | | | Tape/Diskette I.D. _____ | | | File Name/Header _____ | | | | | | | | | | | | |
| _____ | | | _____ | | | Data off _____ | | | Tape/Diskette I.D. _____ | | | File Name/Header _____ | | | | | | | | | | | | |

| Pos. | Bot. | T Rack | Trip Depth | Time @ | | Monitor Values | | | | Conv. Mon. Values-CTD | | | | Sample Bot. Data | | | Sal. Bot. # | Other Samp. | Pos. |
|------|------|--------|------------|--------|--------|----------------|-------|-------|-------|-----------------------|-------|--------|--------|------------------|--------|------|-------------|-------------------------------|------|
| | | | | Depth | Trip | Press. | Temp. | Cond. | Other | Press. | Temp. | Cond. | Sal. | Therm-P | Avg Tw | Sal. | | | |
| 1 | | ✓ | 90 | | 152750 | | | 35 | | 91.486 | 3.971 | 29.741 | 31.652 | | | ✓ | | 337 | 1 |
| 2 | | ✓ | 75 | | 152935 | | | | | | | | | | | ✓ | | DIDN'T CLICK PRESSED TWICE | 2 |
| 3 | | ✓ | 50 | | 153601 | | | | | 74.767 | 3.788 | 29.526 | 31.583 | | | | | 341 | 3 |
| 4 | | ✓ | 40 | | 1537 | | | | | 49.588 | 3.684 | 29.411 | 31.560 | | | | | 342 | 4 |
| 5 | | | 30 | | 1538 | | | 25? | | 39.905 | 3.693 | 29.415 | 31.562 | | | | | DIDN'T CLICK PRESSED ONCE | 5 |
| 6 | | | 20 | | 1540 | | | 31 | | 30.646 | 3.654 | 29.372 | 31.553 | | | | | DIDN'T CLICK PRESSED ONCE | 6 |
| 7 | | | 10 | | 1546 | | | 22 | | 19.579 | 3.674 | 29.386 | 31.556 | | | | | 344 | 7 |
| 8 | | | 10 | | 1547 | | | 28/30 | | 10.830 | 3.653 | 29.362 | 31.553 | | | | | 345 | 8 |
| 9 | | | 10 | | 1548 | | | 32 | | 11.008 | 3.634 | 29.346 | 31.551 | | | | | 346 | 9 |
| 10 | | | 0 | | 1553 | | | 33 | | 0.664 | 3.643 | 29.350 | 31.553 | | | | | | 10 |
| 11 | | | | | | | | | | | | | | | | | | | 11 |
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| Consec. Cast # 12 | | Vessel MILLER FREEMAN | | Proj. & Leg MF-94-01 | | Event # 432 | | Vessel Sta. I.D. | | Instructions | | | | | | | | | | Sta. Designation BSSE-1 | | | | | | |
| Consec. Cast # | Latitude Deg. Min. | | N or S | Longitude Deg. | | E or W | Date JD = Day Mo. Yr. | | | Time GMT Hr. Min. | | Dry Bulb | Wet Bulb | Bar. mb | SS | Vis. | Wind Dir. | Wind Sp. | Cloud | Type | Weath. | Bottom Depth, m | Sta. Name or I.D. | | | |
| 012 | 54 | 46 | 10 N | 166 | 09 | 27 W | 20 | FEB | 94 | 02 | 49 | 4 | 5 | 3 | 2 | 1 | 1 | 47 | 15 | 0 | 25 | 7 | 62 | 202 BSSE | | |
| CTD Type & SN 91220-A | | | Press. SN 26072 | | | Temp. SN 701 | | | Cond. SN 304 | | | Monitor Checks on Deck at Surface | | | | | Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____ | | | | | Data Location Tape/Diskette I.D. _____ File Name/Header CAST 012-20 Feb 9238 | | | | |
| Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pos. | Bot. | T Rack | Trip Depth | Time @ | | Monitor Values | | | | Conv. Mon. Values-CTD | | | | Sample Bot. Data | | | Sal. Bot. # | Other Samp. | Pos. | | | | | | | |
| | | | | Depth | Trip | Press. | Temp. | Cond. | Other | Press. | Temp. | Cond. | Sal. | Therm-P | Avg Tw | Sal. | | | | | | | | | | |
| 1 | 2 | | 195 | 03:00 | 03:05 | | | | | | | 195.159 | 4.135 | 31.271 | 33.236 | | | | 338 | Not | 1 | | | | | |
| 2 | 29 | | 150 | | | | | | | | | 150.678 | 4.130 | 31.132 | 33.102 | | | | 339 | Not | 2 | | | | | |
| 3 | 6 | | 75 | | | | | | | | | 76.060 | 4.177 | 30.851 | 32.762 | | | | 340 | Not | 3 | | | | | |
| 4 | 23 | | 60 | | | | | | | | | 61.224 | 4.147 | 30.679 | 32.597 | | | | 341 | Not | 4 | | | | | |
| 5 | 30 | | 40 | | | | | | | | | 39.711 | 3.863 | 30.282 | 32.423 | | | | 342 | Not | 5 | | | | | |
| 6 | 28 | | 30 | | | | | | | | | 29.975 | 3.778 | 30.159 | 32.366 | | | | 343 | Not | 6 | | | | | |
| 7 | 21 | | 20 | | | | | | | | | 19.767 | 3.822 | 30.164 | 32.333 | | | | 344 | Not | 7 | | | | | |
| 8 | 26 | | 10 | | | | | | | | | 9.794 | 3.928 | 30.178 | 32.250 | | | | 345 | Not | 8 | | | | | |
| 9 | 20 | | 10 | | | | | | | | | 9.846 | 3.928 | 30.165 | 32.236 | | | | 346 | Not | 9 | | | | | |
| 10 | 25 | | 0 | | | | | | | | | 1.527 | 3.923 | 30.151 | 32.228 | | | | 347 | Not | 10 | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | 11 | | | | | |
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| Consec. Cast # 213 | | Vessel MILLER FREEMAN | | Proj. & Leg MF-94-01 | | Event # 454 | | Vessel Sta. I.D. | | Instructions | | | | | | | | | | Sta. Designation Bering Slope | |
| Consec. Cast # | Latitude Deg. Min. N or S | | Longitude Deg. E or W | | Date JD = Day Mo. Yr. | | | Time GMT Hr. Min. | | Dry Bulb | Wet Bulb | Bar. mb | S.S. | Vis. | Wind Dir. | Wind Sp. | Cloud | Type | Weath. | Bottom Depth, m | Sta. Name or I.D. |
| 013 | 5447 | 75 N | 16718 | 04 W | 20 | 5 | 26 | 94 | 13 19 | 05 | 1 | 04 | 0 | 11 | 48 | 240 | 09 | 00 | 00 | 0447 | |
| CTD Type & SN 91220-A | | | Monitor Checks on Deck at Surface | | | | | | Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____ | | | Data Location Tape/Diskette I.D. _____ File Name/Header CAST 013_20Feb1305 | | | | | | | | | |
| Press. SN 26072 | | | Press. _____ | | | | | | | | | Remarks Rosette 10, 108 bottles fluorometer Light meter SBE-CTD wp. 440 | | | | | | | | | |
| Temp. SN 701 | | | Temp. _____ | | | | | | | | | | | | | | | | | | |
| Cond. SN 304 | | | Cond. _____ | | | | | | | | | | | | | | | | | | |
| Other _____ | | | Other _____ | | | | | | | | | | | | | | | | | | |

| Pos. | Bot. | T Rack | Trip Depth | Time @ | | Monitor Values | | | | Conv. Mon. Values-CTD | | | | Sample Bot. Data | | | Sal. Bot. # | Other Samp. | Pos. | |
|------|------|--------|------------|----------|----------|----------------|-------|-------|-------|-----------------------|-------|--------|--------|------------------|--------|------|-------------|-------------|------|----|
| | | | | Depth | Trip | Press. | Temp. | Cond. | Other | Press. | Temp. | Cond. | Sal. | Therm-P | Avg Tw | Sal. | | | | |
| 1 | 2 | | 400 | 13:24:08 | | | | | | 400.943 | 3.845 | 31.506 | 33.763 | | | chk | 351 | 03 | mits | 1 |
| 2 | 25 | | 300 | 13:24:09 | 13:29:50 | | | | | 304.554 | 4.053 | 31.412 | 33.429 | | | | 352 | 03 | mits | 2 |
| 3 | 6 | | 150 | | | | | | | 151.462 | 4.205 | 31.222 | 33.131 | | | | 353 | | mits | 3 |
| 4 | 23 | | 75 | | | | | | | 75.574 | 4.075 | 30.746 | 32.741 | | | | 354 | | mits | 4 |
| 5 | 30 | | 60 | | | | | | | 60.671 | 3.824 | 30.403 | 32.593 | | | 24 | 355 | | mits | 5 |
| 6 | 28 | | 40 | | | | | | | 40.664 | 3.782 | 30.286 | 32.507 | | | 25 | 356 | | mits | 6 |
| 7 | 21 | | 30 | | | | | | | 30.657 | 3.763 | 30.214 | 32.446 | | | 34 | | | mits | 7 |
| 8 | 26 | | 20 | | | | | | | 20.440 | 3.721 | 30.156 | 32.424 | | | 22 | | | mits | 8 |
| 9 | 20 | | 10 | | | | | | | 10.653 | 3.743 | 30.145 | 32.394 | | | 33 | 357 | | mits | 9 |
| 10 | 29 | | 0 | | | | | | | 0.496 | 3.740 | 30.133 | 32.387 | | | 31 | 358 | | mits | 10 |
| 11 | | | | | | | | | | | | | | | | | | | | 11 |
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| Consec. Cast # 014 | | Vessel MILLER FREEMAN | | Proj. & Leg MF-94-01 | | Event # 490 | | Vessel Sta. I.D. | | Instructions | | | | | | | | | | Sta. Designation PEGGY94 | | | | | | |
| Consec. Cast # | Latitude Deg. Min. N or S | | Longitude Deg. E or W | | Date JD = Day Mo. Yr. | | | Time GMT Hr. Min. | | Dry Bulb | Wet Bulb | Bar. mb | S.S. | Vis. | Wind Dir. | Wind Sp. | Cloud | Type | Weath. | Bottom Depth, m | Sta. Name or I.D. | | | | | |
| 014 | 54 | 50 | 83 | N | 168 | 36 | 81 | W | 21 | FEB | 94 | 06 | 51 | | 50 | | 40 | 16 | 38 | 130 | 12 | 170 | 2320 | PEG94 | | |
| CTD Type & SN 91220-A | | | Press. SN 26072 | | | Temp. SN 701 | | | Cond. SN 304 | | | Monitor Checks on Deck at Surface Press. _____ Temp. _____ Cond. _____ Other _____ | | | | | Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____ | | | | | Data Location Tape/Diskette I.D. _____ File Name/Header CAST 014-21Feb 0634 | | | | |
| | | | | | | | | | | Remarks | | | | | | | | | | | | | | | | |

| Pos. | Bot. | T Rack | Trip Depth | Time @ | | Monitor Values | | | | Conv. Mon. Values-CTD | | | | Sample Bot. Data | | | Sal. Bot. # | Other Samp. | Pos. | | |
|------|------|--------|------------|---------|------|----------------|-------|-------|-------|-----------------------|-------|---------|-------|------------------|--------|------|-------------|-------------|------|---------|----|
| | | | | Depth | Trip | Press. | Temp. | Cond. | Other | Press. | Temp. | Cond. | Sal. | Therm-P | Avg Tw | Sal. | | | | | |
| 1 | 2 | | 400 | 6:53:45 | 6:59 | | | | | | | 402.339 | 3.708 | 31.485 | 33.818 | | chl | Not 360 | | Not | 1 |
| 2 | 25 | A | 300 | | | | | | | | | 301.380 | 3.711 | 31.262 | 33.602 | | | 359 | 25 | Not | 2 |
| 3 | 6 | | 150 | | | | | | | | | 152.265 | 3.670 | 30.769 | 33.136 | | | 361 | | Not | 3 |
| 4 | 23 | | 75 | | | | | | | | | 75.955 | 3.915 | 30.804 | 32.969 | | | 362 | | Not | 4 |
| 5 | 30 | | 40 | | | | | | | | | 40.326 | 4.184 | 30.871 | 32.797 | | | 24 | | Not chl | 5 |
| 6 | 28 | | 20 | | | | | | | | | 20.167 | 4.147 | 30.776 | 32.732 | | | 34 | | Not chl | 6 |
| 7 | 21 | | 9 | | | | | | | | | 8.704 | 4.154 | 30.734 | 32.682 | | | 22 | | chl | 7 |
| 8 | 26 | | 9 | | | | | | | | | 8.729 | 4.158 | 30.722 | 32.643 | | | 25 | | chl | 8 |
| 9 | 20 | | 9 | | | | | | | | | 8.802 | 4.155 | 30.717 | 32.658 | | | 33 | | Not chl | 9 |
| 10 | 29 | | 0 | | | | | | | | | -0.473 | 4.155 | 30.689 | 32.633 | | | 31 | | Not chl | 10 |
| 11 | | | | | | | | | | | | | | | | | | | | | 11 |
| 12 | | | | | | | | | | | | | | | | | | | | | 12 |

Initials

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| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|-----------------------|---------------------------------|--------------------------------------|--------------------------------|----|-----------------------|--------------------------|------------------|---------------------------|----------------------|----|----------|----------|---------|------|------|-----------|----------|-------|-----------------------------------|--------|-----------------|-------------------|
| Consec. Cast # 15 | | Vessel MILLER FREEMAN | | Proj. & Leg MF-94-01 | | Event # 520 | | Vessel Sta. I.D. | | Instructions | | | | | | | | | | Sta. Designation BSSE-3 | | | |
| Consec. Cast # | Latitude Deg. Min. | | N or S | Longitude Deg. | | E or W | Date JD = Day Mo. Yr. | | | Time GMT Hr. Min. | | Dry Bulb | Wet Bulb | Bar. mb | S.S. | Vis. | Wind Dir. | Wind Sp. | Cloud | Type | Weath. | Bottom Depth, m | Sta. Name or I.D. |
| 015 | 56 | 28 | 12 N | 171 | 28 | 07 W | 21 | FEB | 94 | 21 | 32 | 39 | 28 | 23 | 48 | 109 | 16 | 8 | 6 | 2 | | 216 | BSSE3 |
| CTD Type & SN 91220-A | | | Monitor Checks on Deck at Surface | | | Times JD/Time | | | Data Location | | | | | | | | | | | | | | |
| Press. SN 26072 | | | Press. _____ | | | Data on _____ | | | Tape/Diskette I.D. _____ | | | | | | | | | | | | | | |
| Temp. SN 701 | | | Temp. _____ | | | at Surface _____ | | | File Name/Header _____ | | | | | | | | | | | | | | |
| Cond. SN 304 | | | Cond. _____ | | | Start Down _____ | | | CAST 015-21FEB2059 | | | | | | | | | | | | | | |
| _____ | | | Other _____ | | | Start Up _____ | | | Remarks _____ | | | | | | | | | | | | | | |
| _____ | | | _____ | | | Data off _____ | | | _____ | | | | | | | | | | | | | | |

| Pos. | Bot. | T Rack | Trip Depth | Time @ | | Monitor Values | | | | Conv. Mon. Values-CTD | | | | Sample Bot. Data | | | Sal. Bot. # | Other Samp. | Pos. |
|------|------|--------|------------|--------|------|----------------|-------|-------|-------|-----------------------|-------|--------|--------|------------------|--------|------|-------------|-------------|------|
| | | | | Depth | Trip | Press. | Temp. | Cond. | Other | Press. | Temp. | Cond. | Sal. | Therm-P | Avg Tw | Sal. | | | |
| 1 | | A | 150 | 212215 | | | | | | 149.087 | 4.119 | 30.987 | 32.942 | | | | 27 | | 1 |
| 2 | | | | | | | | | | | | | | | | | | | 2 |
| 3 | | | | | | | | | | | | | | | | | | | 3 |
| 4 | | | | | | | | | | | | | | | | | | | 4 |
| 5 | | | | | | | | | | | | | | | | | | | 5 |
| 6 | | | | | | | | | | | | | | | | | | | 6 |
| 7 | | | | | | | | | | | | | | | | | | | 7 |
| 8 | | | | | | | | | | | | | | | | | | | 8 |
| 9 | | | | | | | | | | | | | | | | | | | 9 |
| 10 | | | | | | | | | | | | | | | | | | | 10 |
| 11 | | | | | | | | | | | | | | | | | | | 11 |
| 12 | | | | | | | | | | | | | | | | | | | 12 |

Initials **WF/CO**

