

Bathymetry

LOG

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| CRUISE | | AREA | | PROJECT | | DATE | |
|---------|--|---------------|--|---------|--|----------|--|
| 25-29-3 | | GUERRERO, MEX | | IPQD | | 2-VII-78 | |
| TIME | | TIME | | TIME | | TIME | |
| 0000 | | 0300 | | 0600 | | 0900 | |
| 05 | | 05 | | 05 | | 05 | |
| 10 | | 10 | | 10 | | 10 | |
| 15 | | 15 | | 15 | | 15 | |
| 20 | | 20 | | 20 | | 20 | |
| 25 | | 25 | | 25 | | 25 | |
| 0030 | | 0330 | | 0630 | | 0930 | |
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| 0100 | | 0400 | | 0700 | | 1000 | |
| 05 | | 05 | | 05 | | 05 | |
| 10 | | 10 | | 10 | | 10 | |
| 15 | | 15 | | 15 | | 15 | |
| 20 | | 20 | | 20 | | 20 | |
| 25 | | 25 | | 25 | | 25 | |
| 0130 | | 0430 | | 0730 | | 1030 | |
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| 55 | | 55 | | 55 | | 55 | |
| 0200 | | 0500 | | 0800 | | 1100 | |
| 05 | | 05 | | 05 | | 05 | |
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| 25 | | 25 | | 25 | | 25 | |
| 0230 | | 0530 | | 0830 | | 1130 | |
| 35 | | 35 | | 35 | | 35 | |
| SPK40 | | 40 | | 40 | | 40 | |
| 45 | | 45 | | 45 | | 45 | |
| 50 | | 50 | | 50 | | 50 | |
| 55 | | 55 | | 55 | | 55 | |

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SP or
SPK - sparker
reading

Bathymetry

LOG

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| CRUISE | | | AREA | | | PROJECT | | | DATE | | |
|---------|------|--|------------------|------|--|---------|------|--|----------|------|--|
| IG 29-3 | | | GUERRERO, MEXICO | | | IPOD | | | 3-VII-78 | | |
| TIME | | | TIME | | | TIME | | | TIME | | |
| 0000 | | | 0300 | 2747 | | 0600 | 2652 | | 0900 | 2555 | |
| 05 | 2475 | | 05 | 2792 | | 05 | 2652 | | 05 | 2589 | |
| 10 | 2520 | | 10 | 2748 | | 10 | 2646 | | 10 | 2593 | |
| 15 | 2631 | | 15 | 2743 | | 15 | 2639 | | 15 | 2581 | |
| 20 | 2665 | | 20 | 2742 | | 20 | 2644 | | 20 | 2584 | |
| 25 | 2680 | | 25 | 2743 | | 25 | 2637 | | 25 | 2574 | |
| 0030 | 2720 | | 0330 | 2748 | | 0630 | 2625 | | 0930 | 2484 | |
| 35 | 2752 | | 35 | 2742 | | 35 | 2620 | | 35 | 2523 | |
| 40 | 2748 | | 40 | 2748 | | 40 | 2608 | | 40 | 2456 | |
| 45 | 2748 | | 45 | 2742 | | 45 | 2592 | | 45 | 2420 | |
| 50 | 2747 | | 50 | 2742 | | 50 | 2520 | | 50 | 2489 | |
| 55 | 2747 | | 55 | 2742 | | 55 | 2552 | | 55 | 2444 | |
| 0100 | 2747 | | 0400 | 2748 | | 0700 | 2515 | | 1000 | 2401 | |
| 05 | 2747 | | 05 | 2748 | | 05 | 2549 | | 05 | 2476 | |
| 10 | 2747 | | 10 | 2748 | | 10 | 2509 | | 10 | 2426 | |
| 15 | 2747 | | 15 | 2748 | | 15 | 2501 | | 15 | 2424 | |
| 20 | 2747 | | 20 | 2748 | | 20 | 2492 | | 20 | 2413 | |
| 25 | 2747 | | 25 | 2748 | | 25 | 2494 | | 25 | 2411 | |
| 0130 | 2747 | | 0430 | 2748 | | 0730 | 2498 | | 1030 | 2410 | |
| 35 | 2747 | | 35 | 2749 | | 35 | 2512 | | 35 | 2418 | |
| 40 | 2747 | | 40 | 2749 | | 40 | 2565 | | 40 | | |
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| 55 | 2747 | | 55 | 2715 | | 55 | 2592 | | 55 | 2409 | |
| 0200 | 2747 | | 0500 | 2743 | | 0800 | 2598 | | 1100 | | |
| 05 | 2747 | | 05 | 2739 | | 05 | 2605 | | 05 | | |
| 10 | 2747 | | 10 | 2736 | | 10 | 2609 | | 10 | 2438 | |
| 15 | 2747 | | 15 | 2730 | | 15 | 2611 | | 15 | 2400 | |
| 20 | 2747 | | 20 | 2723 | | 20 | 2614 | | 20 | 2439 | |
| 25 | 2747 | | 25 | 2719 | | 25 | 2612 | | 25 | 2405 | |
| 0230 | 2747 | | 0530 | 2709 | | 0830 | 2591 | | 1130 | | |
| 35 | 2747 | | 35 | 2701 | | 35 | 2549 | | 35 | 2400 | |
| 40 | 2747 | | 40 | 2628 | | 40 | 2537 | | 40 | 2475 | |
| 45 | 2747 | | 45 | 2657 | | 45 | 2511 | | 45 | 2438 | |
| 50 | 2747 | | 50 | 2655 | | 50 | 2511 | | 50 | 2432 | |
| 55 | 2747 | | 55 | 2653 | | 55 | 2514 | | 55 | 2414 | |

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 0108 Z STOP
 FOR CORE #1

Bathymetry

LOG

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OF 20

| CRUISE | | | AREA | | | PROJECT | | | DATE | | |
|---------|------|------|-------------------|------|-----|---------|-----|------|----------|------|------|
| IG 29-3 | | | GRO-OAXACA MEXICO | | | TPOD | | | 4-VII-78 | | |
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| 0000 | 2607 | 0300 | 2297 | 0600 | 422 | 0900 | 260 | 1200 | 376 | 1500 | 954 |
| 05 | 2599 | 05 | 2271 | 05 | 403 | 05 | 267 | 05 | 304 | 05 | 928 |
| 10 | 2588 | 10 | 2326 | 10 | 396 | 10 | 249 | 10 | 398 | 10 | 886 |
| 15 | 2581 | 15 | 2290 | 15 | 385 | 15 | 244 | 15 | 403 | 15 | 867 |
| 20 | 2561 | 20 | 2209 | 20 | 393 | 20 | 238 | 20 | 422 | 20 | 860 |
| 25 | 2555 | 25 | 2130 | 25 | 400 | 25 | 246 | 25 | 440 | 25 | 848 |
| 0030 | 2549 | 0330 | — | 0630 | 413 | 0930 | 249 | 1230 | 470 | 1530 | 824 |
| 35 | 2542 | 35 | 1953 | 35 | 421 | 35 | 267 | 35 | 472 | 35 | 826 |
| 40 | 2518 | 40 | 1865 | 40 | 419 | 40 | 262 | 40 | 489 | 40 | 818 |
| 45 | 2501 | 45 | 1798 | 45 | 442 | 45 | 305 | 45 | 520 | 45 | 823 |
| 50 | 2550 | 50 | 1732 | 50 | 423 | 50 | 315 | 50 | 570 | 50 | 780 |
| 55 | 2584 | 55 | — | 55 | 389 | 55 | 375 | 55 | 653 | 55 | 783 |
| 0100 | 2583 | 0400 | 1553 | 0700 | 380 | 1000 | 411 | 1300 | 718 | 1600 | 845 |
| 05 | 2543 | 05 | 1503 | 05 | 356 | 05 | 452 | 05 | 796 | 05 | 906 |
| 10 | 2515 | 10 | 1447 | 10 | 343 | 10 | 512 | 10 | 851 | 10 | 995 |
| 15 | 2535 | 15 | 1350 | 15 | 354 | 15 | 575 | 15 | 891 | 15 | 1023 |
| 20 | 2604 | 20 | 1298 | 20 | 374 | 20 | 644 | 20 | 912 | 20 | 1058 |
| 25 | 2551 | 25 | 1155 | 25 | 379 | 25 | 722 | 25 | 960 | 25 | 1085 |
| 0130 | 2604 | 0430 | 1090 | 0730 | 395 | 1030 | 803 | 1330 | 1012 | 1630 | 1120 |
| 35 | 2638 | 35 | 1019 | 35 | 413 | 35 | 858 | 35 | 1061 | 35 | 1119 |
| 40 | 2648 | 40 | 962 | 40 | 412 | 40 | 871 | 40 | 1101 | 40 | 1118 |
| 45 | 2647 | 45 | 908 | 45 | 378 | 45 | 872 | 45 | 1140 | 45 | 1131 |
| 50 | 2648 | 50 | 865 | 50 | 326 | 50 | 867 | 50 | 1165 | 50 | 1152 |
| 55 | 2651 | 55 | 833 | 55 | 281 | 55 | 839 | 55 | 1166 | 55 | 1165 |
| 0200 | 2666 | 0500 | 826 | 0800 | 289 | 1100 | 821 | 1400 | 1163 | 1700 | 1175 |
| 05 | 2668 | 05 | 824 | 05 | 288 | 05 | 786 | 05 | 1162 | 05 | 1176 |
| 10 | 2674 | 10 | 787 | 10 | 298 | 10 | 767 | 10 | 1166 | 10 | 1173 |
| 15 | 2671 | 15 | 740 | 15 | 309 | 15 | 727 | 15 | 1151 | 15 | 1167 |
| 20 | 2662 | 20 | 702 | 20 | 350 | 20 | 642 | 20 | 1142 | 20 | 1159 |
| 25 | 2654 | 25 | 652 | 25 | 310 | 25 | 614 | 25 | 1126 | 25 | 1150 |
| 0230 | 2657 | 0530 | 598 | 0830 | 349 | 1130 | 569 | 1430 | 1101 | 1730 | 1106 |
| 35 | 2645 | 35 | 551 | 35 | 318 | 35 | 544 | 35 | 1097 | 35 | 1064 |
| 40 | 2637 | 40 | 514 | 40 | 313 | 40 | 512 | 40 | 1058 | 40 | 1020 |
| 45 | 2656 | 45 | 492 | 45 | 329 | 45 | 468 | 45 | 1042 | 45 | 988 |
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| 55 | 2380 | 55 | 442 | 55 | 278 | 55 | 413 | 55 | 986 | 55 | 929 |

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| CRUISE IG-29-3 | | | | AREA GRO-OAXACA MEXICO | | | | PROJECT I POD | | | | DATE 5-VII-78 | | | |
|-------------------|-----|------|-----|---------------------------|-----|------|-------|------------------|------|------|------|------------------|-----|------|-----|
| TIME | | TIME | | TIME | | TIME | | TIME | | TIME | | TIME | | TIME | |
| 0000 | 320 | 0300 | 164 | 0600 | 595 | 0900 | 648 | 1200 | 2167 | 1500 | 2373 | 1800 | 514 | 2100 | 241 |
| 05 | | 05 | 164 | 05 | 616 | 05 | 690 | 05 | 2108 | 05 | 2258 | 05 | 615 | 05 | 230 |
| 10 | | 10 | 163 | 10 | 630 | 10 | 760 | 10 | 2094 | 10 | | 10 | 455 | 10 | 226 |
| 15 | | 15 | 161 | 15 | 642 | 15 | 835 | 15 | | 15 | | 15 | 347 | 15 | 219 |
| 20 | | 20 | 157 | 20 | 656 | 20 | | 20 | 1990 | 20 | 2180 | 20 | 311 | 20 | 222 |
| 25 | 855 | 25 | 153 | 25 | 675 | 25 | | 25 | 1899 | 25 | | 25 | 287 | 25 | 224 |
| 0030 | 890 | 0330 | 157 | 0630 | 636 | 0930 | | 1230 | 1900 | 1530 | 1510 | 1830 | 296 | 2130 | 232 |
| 35 | 885 | 35 | 149 | 35 | 611 | 35 | | 35 | 1930 | 35 | 1481 | 35 | 337 | 35 | 232 |
| 40 | 770 | 40 | 147 | 40 | 598 | 40 | | 40 | 1961 | 40 | 1460 | 40 | 383 | 40 | 221 |
| 45 | 732 | 45 | 144 | 45 | 602 | 45 | 1385 | 45 | 1983 | 45 | 1432 | 45 | 435 | 45 | 220 |
| 50 | 746 | 50 | 145 | 50 | 584 | 50 | 1248 | 50 | 2040 | 50 | 1550 | 50 | 472 | 50 | 229 |
| 55 | 580 | 55 | 147 | 55 | 568 | 55 | 1363 | 55 | | 55 | 1568 | 55 | 496 | 55 | 233 |
| 0100 | 425 | 0400 | 149 | 0700 | 559 | 1000 | 1320 | 1300 | 2075 | 1600 | 1543 | 1900 | 491 | 2200 | 240 |
| 05 | 352 | 05 | 149 | 05 | 556 | 05 | 1436 | 05 | 2091 | 05 | 1316 | 05 | 492 | 05 | 252 |
| 10 | 330 | 10 | 162 | 10 | 542 | 10 | 1502 | 10 | 2140 | 10 | 1288 | 10 | 478 | 10 | 262 |
| 15 | 328 | 15 | 171 | 15 | 515 | 15 | 1590 | 15 | 2132 | 15 | 1265 | 15 | 478 | 15 | 272 |
| 20 | 298 | 20 | 179 | 20 | 488 | 20 | 1674 | 20 | 2115 | 20 | 1230 | 20 | 477 | 20 | 278 |
| 25 | 300 | 25 | 186 | 25 | 452 | 25 | 1694 | 25 | 2107 | 25 | 1155 | 25 | 480 | 25 | 286 |
| 0130 | 235 | 0430 | 203 | 0730 | 412 | 1030 | 1710 | 1330 | 2183 | 1630 | 1131 | 1930 | 474 | 2230 | 293 |
| 35 | 197 | 35 | 217 | 35 | 369 | 35 | 1750 | 35 | 2200 | 163 | 1103 | 35 | 464 | 35 | 314 |
| 40 | 95 | 40 | 232 | 40 | 342 | 40 | 1789 | 40 | 2177 | 40 | 1106 | 40 | 475 | 40 | 318 |
| 45 | 78 | 45 | 242 | 45 | 292 | 45 | 1849 | 45 | 2196 | 45 | 1094 | 45 | 465 | 45 | 325 |
| 50 | 75 | 50 | 282 | 50 | 311 | 50 | 1818 | 50 | 2471 | 50 | 1035 | 50 | 415 | 50 | 344 |
| 55 | 77 | 55 | 275 | 55 | 280 | 55 | 1862 | 55 | 2503 | 55 | 968 | 55 | 399 | 55 | 365 |
| 0200 | 77 | 0500 | 268 | 0800 | 292 | 1100 | 1834 | 1400 | 2590 | 1700 | 909 | 2000 | 372 | 2300 | 349 |
| 05 | 78 | 05 | 282 | 05 | 300 | 05 | 1783 | 05 | 2600 | 05 | 840 | 05 | 372 | 05 | 343 |
| 10 | 81 | 10 | 300 | 10 | 420 | 10 | 1900 | 10 | 2675 | 10 | 762 | 10 | 345 | 10 | 366 |
| 15 | 90 | 15 | 320 | 15 | 385 | 15 | 1980 | 15 | 2680 | 15 | 681 | 15 | 332 | 15 | 347 |
| 20 | 100 | 20 | 340 | 20 | 318 | 20 | 1958 | 20 | 2595 | 20 | 656 | 20 | 325 | 20 | 323 |
| 25 | 115 | 25 | 375 | 25 | 296 | 25 | 1636 | 25 | 2570 | 25 | 659 | 25 | 320 | 25 | 305 |
| 0230 | 129 | 0530 | 406 | 0830 | 297 | 1130 | 2580 | 1430 | 2735 | 1730 | 658 | 2030 | 304 | 2330 | 296 |
| 35 | 144 | 35 | 440 | 35 | 345 | 35 | 2573 | 35 | 2748 | 35 | 626 | 35 | 296 | 35 | 283 |
| 40 | 152 | 40 | 471 | 40 | 412 | 40 | 2575 | 40 | 2730 | 40 | 570 | 40 | 288 | 40 | 265 |
| 45 | 157 | 45 | 513 | 45 | | 45 | | 45 | 2542 | 45 | 524 | 45 | 282 | 45 | 247 |
| 50 | 163 | 50 | 544 | 50 | | 50 | | 50 | 2504 | 50 | 476 | 50 | 267 | 50 | 225 |
| 55 | 166 | 55 | 575 | 55 | | 55 | 12187 | 55 | 2460 | 55 | 477 | 55 | 255 | 55 | 204 |

Bathymetry

File # 8

Bathymetry

| CRUISE IG-29-3 | | | | AREA GRO-DAXACA | | | | PROJECT IPOD | | | | DATE 6-VII-78 | | | |
|-------------------|-------|------|-------|--------------------|-------|------|-------|-----------------|-------|------|-------|------------------|-------|------|-------|
| TIME | DEPTH | TIME | DEPTH | TIME | DEPTH | TIME | DEPTH | TIME | DEPTH | TIME | DEPTH | TIME | DEPTH | TIME | DEPTH |
| 0000 | 186 | 0300 | 56 | 0600 | 28 | 0900 | 44 | 1200 | 77 | 1500 | 57 | 1800 | 59 | 2100 | 09 |
| 05 | 163 | 05 | 55 | 05 | 27 | 05 | 44 | 05 | 76 | 05 | 56 | 05 | 58 | 05 | 102 |
| 10 | 126 | 10 | 59 | 10 | 27 | 10 | 46 | 10 | 76 | 10 | 59 | 10 | 57 | 10 | 113 |
| 15 | 110 | 15 | 59 | 15 | 26 | 15 | 49 | 15 | 75 | 15 | 54 | 15 | 57 | 15 | 144 |
| 20 | 117 | 20 | 61 | 20 | 25 | 20 | 53 | 20 | 74 | 20 | 54 | 20 | 56 | 20 | 200 |
| 25 | 119 | 25 | 64 | 25 | 30 | 25 | 58 | 25 | 72 | 25 | 54 | 25 | 54 | 25 | 291 |
| 0030 | 128 | 0330 | 67 | 0630 | 38 | 0930 | 64 | 1230 | 66 | 1530 | 54 | 1830 | 59 | 2130 | 39 |
| 35 | 125 | 35 | 68 | 35 | 40 | 35 | 72 | 35 | 61 | 35 | 55 | 35 | 55 | 35 | 440 |
| 40 | 125 | 40 | 68 | 40 | 42 | 40 | 81 | 40 | 55 | 40 | 55 | 40 | 54 | 40 | 435 |
| 45 | 125 | 45 | 65 | 45 | 44 | 45 | 88 | 45 | 41 | 45 | 46 | 45 | 41 | 45 | 428 |
| 50 | 121 | 50 | 60 | 50 | 47 | 50 | 96 | 50 | 49 | 50 | 56 | 50 | 19 | 50 | 417 |
| 55 | 120 | 55 | 60 | 55 | 53 | 55 | 102 | 55 | 55 | 55 | 60 | 55 | 06 | 55 | 418 |
| 0100 | 117 | 0400 | 59 | 0700 | 106 | 1000 | 109 | 1300 | 1600 | 62 | 1900 | 05 | 2200 | 40 | 404 |
| 05 | 113 | 05 | 58 | 05 | 22 | 05 | 113 | 05 | 76 | 05 | 66 | 05 | 05 | 05 | 400 |
| 10 | 111 | 10 | 56 | 10 | 36 | 10 | 119 | 10 | 76 | 10 | — | 10 | 05 | 10 | 313 |
| 15 | 109 | 15 | 58 | 15 | 44 | 15 | 122 | 15 | 71 | 15 | 72 | 15 | 04 | 15 | 236 |
| 20 | 106 | 20 | 57 | 20 | 60 | 20 | 122 | 20 | 71 | 20 | 74 | 20 | 04 | 20 | 160 |
| 25 | 102 | 25 | 56 | 25 | 60 | 25 | 124 | 25 | 70 | 25 | 69 | 25 | 04 | 25 | 146 |
| 0130 | 99 | 0430 | 52 | 0730 | 70 | 1030 | 126 | 1330 | 68 | 1630 | 72 | 1930 | 04 | 2230 | 11 |
| 35 | 96 | 35 | 52 | 35 | 65 | 35 | 127 | 35 | 67 | 35 | 70 | 35 | 04 | 35 | 118 |
| 40 | 98 | 40 | 52 | 40 | 53 | 40 | 126 | 40 | 66 | 40 | 68 | 40 | 04 | 40 | 121 |
| 45 | 102 | 45 | 52 | 45 | 34 | 45 | 125 | 45 | 66 | 45 | 69 | 45 | 04 | 45 | 128 |
| 50 | 65 | 50 | 52 | 50 | 26 | 50 | 125 | 50 | 65 | 50 | 70 | 50 | 04 | 50 | 128 |
| 55 | 64 | 55 | 53 | 55 | 29 | 55 | 122 | 55 | 65 | 55 | 68 | 55 | 04 | 55 | 123 |
| 0200 | 88 | 0500 | 55 | 0800 | 34 | 1100 | 119 | 1400 | 65 | 1700 | 68 | 2000 | 04 | 2300 | 11 |
| 05 | 102 | 05 | 56 | 05 | 41 | 05 | 177 | 05 | 63 | 05 | 68 | 05 | 04 | 05 | 102 |
| 10 | 106 | 10 | 57 | 10 | 48 | 10 | 114 | 10 | 63 | 10 | 70 | 10 | 04 | 10 | 78 |
| 15 | 106 | 15 | 56 | 15 | 51 | 15 | 113 | 15 | 62 | 15 | 68 | 15 | 04 | 15 | 66 |
| 20 | 105 | 20 | 55 | 20 | 55 | 20 | 109 | 20 | 64 | 20 | 66 | 20 | 04 | 20 | 64 |
| 25 | 104 | 25 | 52 | 25 | 57 | 25 | 104 | 25 | 62 | 25 | 68 | 25 | 04 | 25 | 68 |
| 0230 | 102 | 0530 | 49 | 0830 | 56 | 1130 | 109 | 1430 | 101 | 1730 | 68 | 2030 | 05 | 2330 | 73 |
| 35 | 98 | 35 | 47 | 35 | 54 | 35 | 43 | 35 | 60 | 35 | 65 | 35 | 05 | 35 | 83 |
| 40 | 93 | 40 | 42 | 40 | 51 | 40 | 89 | 40 | 61 | 40 | 64 | 40 | 06 | 40 | 85 |
| 45 | 83 | 45 | 35 | 45 | 50 | 45 | 85 | 45 | 60 | 45 | 63 | 45 | 06 | 45 | 81 |
| 50 | 75 | 50 | 33 | 50 | 49 | 50 | 81 | 50 | 60 | 50 | 62 | 50 | 07 | 50 | 61 |
| 55 | 65 | 55 | 29 | 55 | 47 | 55 | 78 | 55 | 59 | 55 | 61 | 55 | 08 | 55 | 59 |

File #9

MEXICAN GUNBOATS
P-18 & P-09

Bathymetry

| CRUISE | | | AREA | | | PROJECT | | | DATE | | |
|---------|--|------|--------------------|------|--|---------|--|------|----------|------|--|
| IG-29-3 | | | GRO-OAXACA, MEXICO | | | IPOD | | | 7-VII-78 | | |
| TIME | | TIME | | TIME | | TIME | | TIME | | TIME | |
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| 0030 | | 0330 | | 0630 | | 0930 | | 1230 | | 1530 | |
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| 55 | | 55 | | 55 | | 55 | | 55 | | 55 | |
| 0100 | | 0400 | | 0700 | | 1000 | | 1300 | | 1600 | |
| 05 | | 05 | | 05 | | 05 | | 05 | | 05 | |
| 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 15 | | 15 | | 15 | | 15 | | 15 | | 15 | |
| 20 | | 20 | | 20 | | 20 | | 20 | | 20 | |
| 25 | | 25 | | 25 | | 25 | | 25 | | 25 | |
| 0130 | | 0430 | | 0730 | | 1030 | | 1330 | | 1630 | |
| 35 | | 35 | | 35 | | 35 | | 35 | | 35 | |
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| 55 | | 55 | | 55 | | 55 | | 55 | | 55 | |
| 0200 | | 0500 | | 0800 | | 1100 | | 1400 | | 1700 | |
| 05 | | 05 | | 05 | | 05 | | 05 | | 05 | |
| 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 15 | | 15 | | 15 | | 15 | | 15 | | 15 | |
| 20 | | 20 | | 20 | | 20 | | 20 | | 20 | |
| 25 | | 25 | | 25 | | 25 | | 25 | | 25 | |
| 0230 | | 0530 | | 0830 | | 1130 | | 1430 | | 1730 | |
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File #10

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Bathymetry

| CRUISE | | AREA | | PROJECT | | DATE | |
|---------|------|--------------------|------|---------|------|--------|------|
| TG-29-3 | | GRO-DAXACA, MEXICO | | IPOD | | 8-VII- | |
| TIME | TIME | TIME | TIME | TIME | TIME | TIME | TIME |
| 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 |
| 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 0030 | 0330 | 0630 | 0930 | 1230 | 1530 | 1830 | 2130 |
| 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
| 0100 | 0400 | 0700 | 1000 | 1300 | 1600 | 1900 | 2200 |
| 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 0130 | 0430 | 0730 | 1030 | 1330 | 1630 | 1930 | 2230 |
| 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
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| 0200 | 0500 | 0800 | 1100 | 1400 | 1700 | 2000 | 2300 |
| 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 0230 | 0530 | 0830 | 1130 | 1430 | 1730 | 2030 | 2330 |
| 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
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| 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
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File #11

Bathymetry

| CRUISE | | AREA | | PROJECT | | DATE | |
|---------|------|--------|------|----------------------|------|----------|------|
| TG 29-3 | | MEXICO | | TRANSIT TO GUATEMALA | | 9-VII-78 | |
| TIME | | TIME | | TIME | | TIME | |
| 0000 | 1720 | 0300 | 1762 | 0600 | 2040 | 0900 | 1830 |
| 05 | 1820 | 05 | 1840 | 05 | 2087 | 05 | 1750 |
| 10 | 1797 | 10 | 1925 | 10 | 2062 | 10 | 1655 |
| 15 | 1834 | 15 | 1980 | 15 | 2120 | 15 | 1670 |
| 20 | 1780 | 20 | 1618 | 20 | 2176 | 20 | 1695 |
| 25 | 1883 | 25 | — | 25 | 2203 | 25 | 1695 |
| 0030 | 1980 | 0330 | 1650 | 0630 | 2125 | 0930 | 1695 |
| 35 | 1952 | 35 | 1790 | 35 | 2180 | 35 | 1668 |
| 40 | 1955 | 40 | 1670 | 40 | 2247 | 40 | 1560 |
| 45 | 1910 | 45 | 2070 | 45 | 2300 | 45 | 1470 |
| 50 | 1830 | 50 | 2062 | 50 | 2330 | 50 | 1550 |
| 55 | 1770 | 55 | 2090 | 55 | 2325 | 55 | 1498 |
| 0100 | 1753 | 0400 | 2066 | 0700 | 2291 | 1000 | 1470 |
| 05 | 1726 | 05 | — | 05 | 2305 | 05 | 1472 |
| 10 | 1703 | 10 | 2014 | 10 | 2280 | 10 | 1458 |
| 15 | 1736 | 15 | — | 15 | 2163 | 15 | 1435 |
| 20 | 1809 | 20 | 2102 | 20 | 2135 | 20 | 1405 |
| 25 | 1844 | 25 | 2140 | 25 | 2101 | 25 | 1370 |
| 0130 | 1820 | 0430 | 2166 | 0730 | 2143 | 1030 | 1288 |
| 35 | 1852 | 35 | 2178 | 35 | 2190 | 35 | 1188 |
| 40 | 1760 | 40 | 2092 | 40 | 2207 | 40 | 1129 |
| 45 | 1776 | 45 | — | 45 | 2195 | 45 | 1114 |
| 50 | 1790 | 50 | — | 50 | 2170 | 50 | 1090 |
| 55 | 1767 | 55 | 2092 | 55 | 2150 | 55 | 1195 |
| 0200 | 1707 | 0500 | 2102 | 0800 | 2136 | 1100 | 1200 |
| 05 | 1620 | 05 | — | 05 | 2091 | 05 | — |
| 10 | — | 10 | — | 10 | 2013 | 10 | — |
| 15 | — | 15 | 1993 | 15 | 2105 | 15 | 1286 |
| 20 | 1806 | 20 | — | 20 | 2148 | 20 | 1277 |
| 25 | — | 25 | — | 25 | 2123 | 25 | 1278 |
| 0230 | 1860 | 0530 | 2066 | 0830 | 2107 | 1130 | 1294 |
| 35 | 1910 | 35 | 2113 | 35 | 2070 | 35 | 1305 |
| 40 | 1860 | 40 | 2140 | 40 | 2096 | 40 | 1374 |
| 45 | 1810 | 45 | 2156 | 45 | 2115 | 45 | 1406 |
| 50 | 1798 | 50 | — | 50 | 1999 | 50 | 1439 |
| 55 | 1700 | 55 | — | 55 | 1930 | 55 | 1432 |
| 1200 | 1405 | 1500 | 563 | 1800 | 188 | 2100 | 324 |
| 05 | 1378 | 05 | 532 | 05 | 190 | 05 | 333 |
| 10 | 1360 | 10 | 532 | 10 | 191 | 10 | 343 |
| 15 | 1335 | 15 | 495 | 15 | 189 | 15 | 354 |
| 20 | 1317 | 20 | 455 | 20 | 186 | 20 | 364 |
| 25 | 1315 | 25 | 427 | 25 | 193 | 25 | 370 |
| 1230 | 1298 | 1530 | 403 | 1830 | 213 | 2130 | 370 |
| 35 | 1263 | 35 | 326 | 35 | 297 | 35 | 415 |
| 40 | 1204 | 40 | 365 | 40 | 395 | 40 | 420 |
| 45 | 1136 | 45 | 302 | 45 | 496 | 45 | 455 |
| 50 | 1086 | 50 | 242 | 50 | 576 | 50 | 471 |
| 55 | 1015 | 55 | 186 | 55 | 717 | 55 | 500 |
| 1300 | 1002 | 1600 | 179 | 1900 | 852 | 2200 | 537 |
| 05 | 985 | 05 | 177 | 05 | 918 | 05 | 546 |
| 10 | 980 | 10 | 177 | 10 | 763 | 10 | 553 |
| 15 | 943 | 15 | 180 | 15 | 616 | 15 | 559 |
| 20 | 904 | 20 | 181 | 20 | 453 | 20 | 585 |
| 25 | 875 | 25 | 182 | 25 | 267 | 25 | 613 |
| 1330 | 835 | 1630 | 182 | 1930 | 238 | 2230 | 610 |
| 35 | 800 | 35 | 182 | 35 | 233 | 35 | 633 |
| 40 | 767 | 40 | 182 | 40 | 235 | 40 | 659 |
| 45 | 735 | 45 | 183 | 45 | 240 | 45 | 673 |
| 50 | 690 | 50 | 184 | 50 | 244 | 50 | 695 |
| 55 | 651 | 55 | 184 | 55 | 246 | 55 | 675 |
| 1400 | 631 | 1700 | 185 | 2000 | 250 | 2300 | 708 |
| 05 | 603 | 05 | 184 | 05 | 252 | 05 | 721 |
| 10 | 590 | 10 | 183 | 10 | 257 | 10 | 723 |
| 15 | 600 | 15 | 182 | 15 | 261 | 15 | 734 |
| 20 | 606 | 20 | 183 | 20 | 265 | 20 | 738 |
| 25 | 615 | 25 | 183 | 25 | 270 | 25 | 889 |
| 1430 | 628 | 1730 | 185 | 2030 | 275 | 2330 | 754 |
| 35 | 636 | 35 | 190 | 35 | 280 | 35 | 752 |
| 40 | 637 | 40 | 191 | 40 | 288 | 40 | 744 |
| 45 | 634 | 45 | 191 | 45 | 294 | 45 | 754 |
| 50 | 622 | 50 | 193 | 50 | 303 | 50 | 766 |
| 55 | 591 | 55 | 193 | 55 | 313 | 55 | 761 |

BATHYMETRY
File #12

| CRUISE IG 29-3 | | | AREA MEXICO | | | PROJECT TRANSIT TO GUATEMALA | | | DATE 10-VII-78 | | | | | | |
|-------------------|-----|------|----------------|------|------|---------------------------------|------|------|-------------------|------|------|------|------|------|------|
| TIME | | TIME | | TIME | | TIME | | TIME | | TIME | | TIME | | | |
| 0000 | 753 | 0300 | 415 | 0600 | 1415 | 0900 | 1120 | 1200 | 1110 | 1500 | 781 | 1800 | 895 | 2100 | 9163 |
| 05 | 752 | 05 | 424 | 05 | 1432 | 05 | 1127 | 05 | 1105 | 05 | 744 | 05 | 889 | 05 | 920 |
| 10 | 745 | 10 | 437 | 10 | 1421 | 10 | 1110 | 10 | 1134 | 10 | 832 | 10 | 887 | 10 | 908 |
| 15 | 740 | 15 | 451 | 15 | 1422 | 15 | 1120 | 15 | 1093 | 15 | 835 | 15 | 884 | 15 | 932 |
| 20 | 731 | 20 | 474 | 20 | 1445 | 20 | 1062 | 20 | 1104 | 20 | 674 | 20 | 881 | 20 | 925 |
| 25 | 715 | 25 | 493 | 25 | 1460 | 25 | 1079 | 25 | 1156 | 25 | 542 | 25 | 878 | 25 | 925 |
| 0030 | 688 | 0330 | 517 | 0630 | 1480 | 0930 | 1050 | 1230 | 1170 | 1530 | 482 | 1830 | 875 | 2130 | 894 |
| 35 | 678 | 35 | 527 | 35 | 1469 | 35 | 1027 | 35 | 1147 | 35 | 449 | 35 | 876 | 35 | 914 |
| 40 | 669 | 40 | 539 | 40 | 1469 | 40 | 1011 | 40 | 1121 | 40 | 475 | 40 | 870 | 40 | 943 |
| 45 | 604 | 45 | 552 | 45 | 1502 | 45 | 1015 | 45 | 1117 | 45 | 605 | 45 | 940 | 45 | 950 |
| 50 | 650 | 50 | 576 | 50 | 1492 | 50 | 985 | 50 | 1116 | 50 | 847 | 50 | 949 | 50 | 950 |
| 55 | 637 | 55 | 606 | 55 | 1486 | 55 | 998 | 55 | 1143 | 55 | 975 | 55 | 1006 | 55 | 950 |
| 0100 | 607 | 0400 | 619 | 0700 | 1460 | 1000 | 996 | 1300 | 1163 | 1600 | 1023 | 1900 | 1023 | 2200 | 955 |
| 05 | 582 | 05 | 643 | 05 | 1480 | 05 | 1000 | 05 | 1187 | 05 | 1062 | 05 | 1014 | 05 | 955 |
| 10 | 558 | 10 | 680 | 10 | 1486 | 10 | 1038 | 10 | 1190 | 10 | 972 | 10 | 1104 | 10 | 937 |
| 15 | 541 | 15 | 745 | 15 | 1492 | 15 | 1040 | 15 | 1200 | 15 | 1020 | 15 | 900 | 15 | 1013 |
| 20 | 473 | 20 | 811 | 20 | 1500 | 20 | 1025 | 20 | 1193 | 20 | 1054 | 20 | 840 | 20 | 960 |
| 25 | 473 | 25 | 840 | 25 | 1485 | 25 | 1017 | 25 | 1160 | 25 | 0990 | 25 | 800 | 25 | 990 |
| 0130 | 457 | 0430 | 884 | 0730 | 1470 | 1030 | 1017 | 1330 | 1167 | 1630 | 0920 | 1930 | 890 | 2230 | 998 |
| 35 | 442 | 35 | 917 | 35 | 1420 | 35 | 1023 | 35 | 1165 | 35 | 880 | 35 | 1007 | 35 | 995 |
| 40 | 435 | 40 | 949 | 40 | 1453 | 40 | 1009 | 40 | 1171 | 40 | 914 | 40 | 943 | 40 | 993 |
| 45 | 426 | 45 | 963 | 45 | 1420 | 45 | 998 | 45 | 1156 | 45 | 918 | 45 | 996 | 45 | 993 |
| 50 | 413 | 50 | 991 | 50 | 1385 | 50 | 992 | 50 | 1120 | 50 | 926 | 50 | 946 | 50 | 977 |
| 55 | 409 | 55 | 1054 | 55 | 1347 | 55 | 993 | 55 | 1076 | 55 | 940 | 55 | 960 | 55 | 951 |
| 0200 | 407 | 0500 | 1130 | 0800 | 1350 | 1100 | 1006 | 1400 | 1050 | 1700 | 848 | 2000 | 1075 | 2300 | 938 |
| 05 | 450 | 05 | 1228 | 05 | 1347 | 05 | 1000 | 05 | 1015 | 05 | 837 | 05 | 1040 | 05 | 934 |
| 10 | 474 | 10 | 1293 | 10 | 1305 | 10 | 1005 | 10 | 984 | 10 | 862 | 10 | 1016 | 10 | 910 |
| 15 | 480 | 15 | 1342 | 15 | 1250 | 15 | 1006 | 15 | 980 | 15 | 887 | 15 | 1020 | 15 | 900 |
| 20 | 466 | 20 | 1500 | 20 | 1240 | 20 | 1011 | 20 | 966 | 20 | 900 | 20 | 1015 | 20 | 884 |
| 25 | 452 | 25 | 1407 | 25 | 1190 | 25 | 1039 | 25 | 945 | 25 | 901 | 25 | 982 | 25 | 880 |
| 0230 | 423 | 0530 | 1357 | 0830 | 1165 | 1130 | 1056 | 1430 | 916 | 1730 | 909 | 2030 | 996 | 2330 | 880 |
| 35 | 416 | 35 | 1388 | 35 | 1170 | 35 | 1097 | 35 | 910 | 35 | 914 | 35 | 960 | 35 | 887 |
| 40 | 415 | 40 | 1388 | 40 | 1185 | 40 | 1105 | 40 | 920 | 40 | 912 | 40 | 942 | 40 | 895 |
| 45 | 404 | 45 | 1388 | 45 | 1156 | 45 | 1116 | 45 | 800 | 45 | 910 | 45 | 951 | 45 | 875 |
| 50 | 400 | 50 | 1390 | 50 | 1172 | 50 | 1124 | 50 | 755 | 50 | 905 | 50 | 950 | 50 | 875 |
| 55 | 405 | 55 | 1398 | 55 | 1138 | 55 | 1135 | 55 | 827 | 55 | 900 | 55 | 936 | 55 | |

BATHYMETRY

File #
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| CRUISE | | | AREA | | | PROJECT | | | DATE | | |
|---------|-----|------|-----------|------|------|---------|------|------|-----------|------|------|
| IG 24-3 | | | GUATAMALA | | | IPOD | | | 11-III-78 | | |
| TIME | | TIME | | TIME | | TIME | | TIME | | TIME | |
| 0000 | 840 | 0300 | 879 | 0600 | 1555 | 0900 | 3230 | 1200 | 1500 | 1800 | 2100 |
| 05 | 810 | 05 | 861 | 05 | 1586 | 05 | 3183 | 05 | 2350 | 05 | 1470 |
| 10 | 800 | 10 | 843 | 10 | 1636 | 10 | 3163 | 10 | 2289 | 10 | 1496 |
| 15 | 790 | 15 | 853 | 15 | 1694 | 15 | 3127 | 15 | 2311 | 15 | 1469 |
| 20 | 740 | 20 | 871 | 20 | 1709 | 20 | 3084 | 20 | 2320 | 20 | 1462 |
| 25 | 715 | 25 | 888 | 25 | 1755 | 25 | 3058 | 25 | 2333 | 25 | 1439 |
| 0030 | 717 | 0330 | 922 | 0630 | 1792 | 0930 | 3012 | 1230 | 1530 | 1830 | 2130 |
| 35 | 728 | 35 | 965 | 35 | 1837 | 35 | 3055 | 35 | 2389 | 35 | 1415 |
| 40 | 743 | 40 | 992 | 40 | 1950 | 40 | 3069 | 40 | 2398 | 40 | 1433 |
| 45 | 758 | 45 | 1038 | 45 | 2012 | 45 | 3083 | 45 | 2350 | 45 | 1451 |
| 50 | 723 | 50 | 1050 | 50 | 2138 | 50 | 3100 | 50 | 2325 | 50 | 1460 |
| 55 | 695 | 55 | 1037 | 55 | 2146 | 55 | 3121 | 55 | 2394 | 55 | 1477 |
| 0100 | 656 | 0400 | 1018 | 0700 | 2160 | 1000 | 3180 | 1300 | 1600 | 1900 | 2200 |
| 05 | 633 | 05 | 1049 | 05 | 2186 | 05 | 3208 | 05 | 2267 | 05 | 1454 |
| 10 | 654 | 10 | 1065 | 10 | 2250 | 10 | 3226 | 10 | 2253 | 10 | 1470 |
| 15 | 660 | 15 | 1084 | 15 | 2325 | 15 | 3255 | 15 | 2254 | 15 | 1476 |
| 20 | 662 | 20 | 1095 | 20 | 2371 | 20 | 3240 | 20 | 2275 | 20 | 1482 |
| 25 | 676 | 25 | 1115 | 25 | 2376 | 25 | 3236 | 25 | 2270 | 25 | 1476 |
| 0130 | 686 | 0430 | 1142 | 0730 | 2392 | 1030 | 3268 | 1330 | 1630 | 1930 | 2230 |
| 35 | 714 | 35 | 1167 | 35 | 2413 | 35 | 3190 | 35 | 2257 | 35 | 1507 |
| 40 | 705 | 40 | 1182 | 40 | 2464 | 40 | 3152 | 40 | 2251 | 40 | 1468 |
| 45 | 720 | 45 | 1200 | 45 | 2497 | 45 | 3163 | 45 | 2237 | 45 | 1345 |
| 50 | 739 | 50 | 1215 | 50 | 2587 | 50 | --- | 50 | 2239 | 50 | 1267 |
| 55 | 760 | 55 | 1216 | 55 | --- | 55 | 3130 | 55 | 2255 | 55 | 1210 |
| 0200 | 775 | 0500 | 1235 | 0800 | 2840 | 1100 | 3107 | 1400 | 1700 | 2000 | 2300 |
| 05 | 800 | 05 | 1249 | 05 | 2812 | 05 | 3104 | 05 | 2297 | 05 | 1040 |
| 10 | 812 | 10 | 1257 | 10 | 2820 | 10 | 3107 | 10 | 2348 | 10 | 685 |
| 15 | 847 | 15 | 1269 | 15 | 2886 | 15 | 3079 | 15 | 2375 | 15 | 670 |
| 20 | 840 | 20 | 1301 | 20 | 2900 | 20 | --- | 20 | 2335 | 20 | 864 |
| 25 | 864 | 25 | 1326 | 25 | 2965 | 25 | --- | 25 | 2357 | 25 | 798 |
| 0230 | 864 | 0530 | 1356 | 0830 | 3020 | 1130 | --- | 1430 | 1730 | 2030 | 2330 |
| 35 | 869 | 35 | 1384 | 35 | 3167 | 35 | --- | 35 | 2343 | 35 | 646 |
| 40 | 866 | 40 | 1413 | 40 | --- | 40 | --- | 40 | 2318 | 40 | 564 |
| 45 | 873 | 45 | 1463 | 45 | --- | 45 | --- | 45 | 2245 | 45 | 503 |
| 50 | 874 | 50 | 1510 | 50 | 3234 | 50 | --- | 50 | 2285 | 50 | 400 |
| 55 | 872 | 55 | 1523 | 55 | 3233 | 55 | --- | 55 | 2287 | 55 | 320 |

BATHYMETRY

File
#14

Bathymetry

LOG

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| CRUISE IG-29-3 | | | AREA GUATAMALA | | | PROJECT IPOD | | | DATE 12-JUL-78 | | | | | | | |
|-------------------|-----|------|-------------------|--------|--|-----------------|--|---------|-------------------|----------|--|----------|------------|----------|----|------|
| TIME | | TIME | | TIME | | TIME | | TIME | | TIME | | TIME | | | | |
| 0000 | 285 | 0300 | | 230600 | | 1020900 | | 4061200 | | 10371500 | | 21321800 | | 28922100 | | 2763 |
| 05 | 105 | 05 | | 2205 | | 10305 | | 44805 | | 106305 | | 227705 | | 260305 | | 2680 |
| 10 | 80 | 10 | | 2210 | | 10410 | | 44810 | | 109710 | | 227710 | | 261110 | | 2626 |
| 15 | 73 | 15 | | 2215 | | 10415 | | 46315 | | 111615 | | 235015 | | 262815 | | 2535 |
| 20 | 70 | 20 | | 2120 | | 10520 | | 45720 | | 113420 | | 240320 | | 262420 | | 2460 |
| 25 | 68 | 25 | | 2125 | | 10525 | | 44925 | | 114825 | | 243125 | | 260225 | | 2440 |
| 0030 | 67 | 0330 | | 200630 | | 1040930 | | 4471230 | | 11721530 | | 25061830 | | 25922130 | | 2415 |
| 35 | 66 | 35 | | 2035 | | 10435 | | 43035 | | 120635 | | 246035 | | 260235 | | 2364 |
| 40 | 65 | 40 | | 1940 | | 10340 | | 42740 | | 121040 | | 250440 | | 263340 | | 2346 |
| 45 | 64 | 45 | | 1945 | | 10245 | | 43745 | | 124045 | | 250445 | dyfinition | 279445 | | 2290 |
| 50 | 61 | 50 | | 1850 | | 10150 | | 47550 | | 125250 | | 250450 | are-thaul | 276550 | | 2140 |
| 55 | 57 | 55 | | 1855 | | 9955 | | 54055 | | 125155 | | 263555 | | | 55 | 2114 |
| 0100 | 53 | 0400 | | 170700 | | 961000 | | 6251300 | | 12691600 | | 26981900 | | 27922200 | | 2063 |
| 05 | 51 | 05 | | 1605 | | 9405 | | 69005 | 51 | 130805 | | 274205 | | 279105 | | 1955 |
| 10 | 48 | 10 | | 1610 | | 9210 | | 73210 | | 132210 | | | 10 | 280410 | | 1901 |
| 15 | 45 | 15 | | 1515 | | 9115 | | 77315 | | 137015 | | | 15 | 281015 | | 1874 |
| 20 | 41 | 20 | | 1520 | | 9020 | | 80520 | | 139520 | | 288420 | 28 | 281620 | | 1820 |
| 25 | 39 | 25 | | 1525 | | 9025 | | 82525 | | 140925 | | 297725 | | | 25 | 1774 |
| 0130 | 33 | 0430 | | 150730 | | 901030 | | 9171330 | | 14301630 | | 30271930 | | 26742230 | | 1252 |
| 35 | 33 | 35 | | 1635 | | 9035 | | 90035 | | 145435 | | | 35 | 266435 | | 1699 |
| 40 | 33 | 40 | | 1740 | | 9040 | | 90940 | | 149040 | | | 40 | 272340 | | 1668 |
| 45 | 32 | 45 | | 1945 | | 9045 | | 91545 | | 152245 | | 323445 | | 292745 | | 1653 |
| 50 | 30 | 50 | | 2250 | | 9150 | | 93250 | | 155750 | | 323050 | | 305550 | | 1635 |
| 55 | 29 | 55 | | 2455 | | 9255 | | 94655 | | 158855 | | 319555 | | 312455 | | 1613 |
| 0200 | 28 | 0500 | | 260800 | | 931100 | | 9601400 | | 16201700 | | 31472000 | | 31752300 | | 1582 |
| 05 | 26 | 05 | | 2805 | | 9505 | | 96005 | | 165005 | | 303205 | | 322105 | | 1540 |
| 10 | 25 | 10 | | 3010 | | 9810 | | 99610 | | 167110 | | 297210 | | 322310 | | 1523 |
| 15 | 24 | 15 | | 3315 | | 10515 | | 99015 | | 171615 | | 285615 | | 322015 | | 1530 |
| 20 | 23 | 20 | | 3820 | | 11520 | | 95220 | | 178020 | | 284120 | | | 20 | 1535 |
| 25 | 23 | 25 | | 4825 | | 1225 | | 92225 | | 181225 | | 285125 | | 317425 | | 1535 |
| 0230 | 22 | 0530 | | 500830 | | 1461130 | | 9101430 | | 18401730 | | 28202030 | 28 | 30802330 | | 1545 |
| 35 | 22 | 35 | | 6035 | | 16335 | | 91035 | | 189335 | | 280335 | | 299235 | | 1533 |
| 40 | 22 | 40 | | 7740 | | 17740 | | 94240 | | 196840 | | 276940 | | 293140 | | 1518 |
| 45 | 22 | 45 | | 9145 | | 80445 | | 96545 | | 198345 | | 273545 | | 290745 | | 1508 |
| 50 | 22 | 50 | | 9850 | | 21350 | | 98350 | | 201050 | | 273650 | | 289050 | | 1491 |
| 55 | 22 | 55 | | 10155 | | 30055 | | 100555 | | 207455 | | 262155 | | 287555 | | 1490 |

File #15
Bathymetry

Bathymetry

LOG

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| CRUISE | | | AREA | | | PROJECT | | | DATE | | |
|--------|------|------|-----------|------|------|---------|------|------|-----------|------|------|
| 2629-3 | | | GUATEMALA | | | TPOD | | | 13-VII-78 | | |
| TIME | | TIME | | TIME | | TIME | | TIME | | TIME | |
| 0000 | 1484 | 0300 | 1420 | 0600 | 1496 | 0900 | 2587 | 1200 | 2680 | 1500 | 2400 |
| 05 | 1460 | 05 | 1399 | 05 | 1519 | 05 | 2644 | 05 | 2649 | 05 | 2493 |
| 10 | 1452 | 10 | 1372 | 10 | 1536 | 10 | 2626 | 10 | 2628 | 10 | 2502 |
| 15 | 1435 | 15 | 1396 | 15 | 1571 | 15 | 2615 | 15 | 2613 | 15 | 2515 |
| 20 | 1420 | 20 | 1411 | 20 | 1589 | 20 | 2653 | 20 | 2580 | 20 | 2518 |
| 25 | 1418 | 25 | 1407 | 25 | 1603 | 25 | 2665 | 25 | 2566 | 25 | 2541 |
| 0030 | 1400 | 0330 | 1445 | 0630 | 1610 | 0930 | 2680 | 1230 | 2546 | 1530 | 2540 |
| 35 | 1384 | 35 | 1495 | 35 | 1607 | 35 | 2673 | 35 | 2524 | 35 | 2547 |
| 40 | 1402 | 40 | 1472 | 40 | 1632 | 40 | 2650 | 40 | 2460 | 40 | 2551 |
| 45 | 1420 | 45 | 1520 | 45 | 1679 | 45 | 2643 | 45 | 2456 | 45 | 2552 |
| 50 | 1450 | 50 | 1574 | 50 | 1718 | 50 | 2655 | 50 | 2431 | 50 | 2552 |
| 55 | 1457 | 55 | 1593 | 55 | 1735 | 55 | 2670 | 55 | 2416 | 55 | 2546 |
| 0100 | 1455 | 0400 | 1600 | 0700 | 1773 | 1000 | 2700 | 1300 | 2420 | 1600 | 2540 |
| 05 | 1505 | 05 | 1564 | 05 | 1805 | 05 | 2727 | 05 | 2408 | 05 | 2536 |
| 10 | 1615 | 10 | 1544 | 10 | 1850 | 10 | | 10 | | 10 | 2533 |
| 15 | 1635 | 15 | 1477 | 15 | 1692 | 15 | | 15 | 2393 | 15 | 2534 |
| 20 | 1790 | 20 | 1457 | 20 | 1966 | 20 | | 20 | 2372 | 20 | 2532 |
| 25 | 1760 | 25 | 1419 | 25 | | 25 | | 25 | 2394 | 25 | 2530 |
| 0130 | 1760 | 0430 | 1385 | 0730 | | 1030 | 2915 | 1330 | 2384 | 1630 | 2532 |
| 35 | 1785 | 35 | 1394 | 35 | 2100 | 35 | 2900 | 35 | 2400 | 35 | 2528 |
| 40 | 1795 | 40 | 1386 | 40 | | 40 | 2900 | 40 | 2413 | 40 | 2522 |
| 45 | 1808 | 45 | 1381 | 45 | | 45 | 2920 | 45 | 2484 | 45 | 2515 |
| 50 | 1635 | 50 | 1376 | 50 | | 50 | 2883 | 50 | 2508 | 50 | 2511 |
| 55 | 1628 | 55 | 1372 | 55 | | 55 | | 55 | 2506 | 55 | 2508 |
| 0200 | 1625 | 0500 | 1369 | 0800 | | 1100 | | 1400 | 2466 | 1700 | 2500 |
| 05 | 1613 | 05 | 1360 | 05 | | 05 | | 05 | 2449 | 05 | 2498 |
| 10 | 1600 | 10 | 1385 | 10 | | 10 | | 10 | | 10 | 2492 |
| 15 | 1583 | 15 | 1414 | 15 | | 15 | | 15 | 2458 | 15 | 2487 |
| 20 | 1572 | 20 | 1446 | 20 | | 20 | | 20 | 2453 | 20 | 2487 |
| 25 | 1555 | 25 | 1507 | 25 | 2569 | 25 | 2740 | 25 | 2481 | 25 | 2480 |
| 0230 | 1535 | 0530 | 1514 | 0830 | 2531 | 1130 | 2615 | 1430 | 2487 | 1730 | 2477 |
| 35 | 1517 | 35 | 1506 | 35 | 2526 | 35 | | 35 | 2514 | 35 | 2469 |
| 40 | 1492 | 40 | 1494 | 40 | 2530 | 40 | | 40 | 2526 | 40 | 2458 |
| 45 | 1470 | 45 | 1496 | 45 | 2520 | 45 | | 45 | 2545 | 45 | 2446 |
| 50 | 1450 | 50 | 1498 | 50 | 2495 | 50 | 2720 | 50 | 2545 | 50 | 2436 |
| 55 | 1437 | 55 | 1473 | 55 | 2627 | 55 | 2700 | 55 | 2495 | 55 | 2432 |

File #16

BATHYMETRY

Convergence of
Side Echo
Near
Bottom

CORRECTION

Bathymetry

LOG

PAGE

13

OF 20

| CRUISE IG 29-3 | | | AREA TRANSIT TO COSTA RICA | | | PROJECT I P O D | | | DATE 14 VII 78 | | |
|-------------------|------|------|-------------------------------|------|------|--------------------|-----|------|-------------------|------|------|
| TIME | | TIME | | TIME | | TIME | | TIME | | TIME | |
| 0000 | 3222 | 0300 | 1943 | 0600 | 1120 | 0900 | 530 | 1200 | 211 | 1500 | 610 |
| 05 | 3223 | 05 | 1907 | 05 | 1215 | 05 | 340 | 05 | 320 | 05 | 620 |
| 10 | 3223 | 10 | 1855 | 10 | --- | 10 | 534 | 10 | 257 | 10 | 723 |
| 15 | --- | 15 | 1806 | 15 | 1184 | 15 | 540 | 15 | 360 | 15 | 670 |
| 20 | --- | 20 | 1810 | 20 | 1156 | 20 | 508 | 20 | 300 | 20 | 715 |
| 25 | 2800 | 25 | 1807 | 25 | 1146 | 25 | 448 | 25 | 336 | 25 | 702 |
| 0030 | 2910 | 0330 | 1820 | 0630 | 1151 | 0930 | --- | 1230 | 292 | 1530 | 720 |
| 35 | 2720 | 35 | 1806 | 35 | 1160 | 35 | 500 | 35 | 259 | 35 | 736 |
| 40 | 2638 | 40 | 1760 | 40 | 1115 | 40 | --- | 40 | 310 | 40 | 770 |
| 45 | 2510 | 45 | 1691 | 45 | 1135 | 45 | 549 | 45 | 310 | 45 | 788 |
| 50 | 2640 | 50 | --- | 50 | 1111 | 50 | --- | 50 | 340 | 50 | 825 |
| 55 | 2760 | 55 | 1583 | 55 | 1096 | 55 | 532 | 55 | 269 | 55 | 832 |
| 0100 | 2662 | 0400 | 1509 | 0700 | 1082 | 1000 | 498 | 1300 | 282 | 1600 | 840 |
| 05 | 2653 | 05 | 1425 | 05 | 1050 | 05 | --- | 05 | 340 | 05 | 631 |
| 10 | --- | 10 | 1386 | 10 | 1041 | 10 | 600 | 10 | --- | 10 | 641 |
| 15 | --- | 15 | 1375 | 15 | 1022 | 15 | 486 | 15 | 464 | 15 | 658 |
| 20 | 2720 | 20 | 1385 | 20 | 1003 | 20 | 480 | 20 | 400 | 20 | 873 |
| 25 | 2710 | 25 | 1345 | 25 | 995 | 25 | --- | 25 | 350 | 25 | 891 |
| 0130 | 2758 | 0430 | 1332 | 0730 | 996 | 1030 | 400 | 1330 | 461 | 1630 | 912 |
| 35 | 2817 | 35 | 1331 | 35 | 996 | 35 | 385 | 35 | 405 | 35 | 935 |
| 40 | 2826 | 40 | 1365 | 40 | 970 | 40 | 380 | 40 | 485 | 40 | 962 |
| 45 | --- | 45 | 1382 | 45 | 967 | 45 | 400 | 45 | 420 | 45 | 992 |
| 50 | --- | 50 | 1390 | 50 | 977 | 50 | 457 | 50 | 495 | 50 | 1013 |
| 55 | --- | 55 | 1400 | 55 | 940 | 55 | 488 | 55 | 448 | 55 | 1055 |
| 0200 | 2220 | 0500 | 1397 | 0800 | 926 | 1100 | 300 | 1400 | 455 | 1700 | 1160 |
| 05 | 2160 | 05 | 1393 | 05 | 917 | 05 | 264 | 05 | 520 | 05 | 1160 |
| 10 | 2130 | 10 | 1354 | 10 | 861 | 10 | 215 | 10 | 510 | 10 | 1239 |
| 15 | 2084 | 15 | 1377 | 15 | 822 | 15 | 216 | 15 | 562 | 15 | 1242 |
| 20 | 2037 | 20 | 1362 | 20 | 810 | 20 | 214 | 20 | 580 | 20 | 1252 |
| 25 | 1990 | 25 | 1352 | 25 | 774 | 25 | 237 | 25 | 545 | 25 | 1256 |
| 0230 | 1987 | 0530 | 1357 | 0830 | 738 | 1130 | 290 | 1430 | 555 | 1730 | 1282 |
| 35 | 1942 | 35 | 1322 | 35 | --- | 35 | 250 | 35 | 620 | 35 | 1276 |
| 40 | 1927 | 40 | 1280 | 40 | 693 | 40 | 233 | 40 | 603 | 40 | 1269 |
| 45 | 1938 | 45 | 1283 | 45 | 686 | 45 | 302 | 45 | 574 | 45 | 1268 |
| 50 | 1950 | 50 | 1253 | 50 | 615 | 50 | 200 | 50 | 640 | 50 | 1290 |
| 55 | 1949 | 55 | 1240 | 55 | 571 | 55 | 260 | 55 | 640 | 55 | 1256 |

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| 16-29-3 | | | COSTA RICA | | | I POD | | | 15-011-78 | | |
| TIME | | TIME | | TIME | | TIME | | TIME | | TIME | |
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| 05 | 1225 | 05 | 2164 | 05 | 2680 | 05 | 2296 | 05 | 2436 | 05 | 2582 |
| 10 | 1230 | 10 | 2195 | 10 | 2669 | 10 | 2305 | 10 | 2466 | 10 | 2604 |
| 15 | 1265 | 15 | 2212 | 15 | 2670 | 15 | 2330 | 15 | 2514 | 15 | 2630 |
| 20 | 1292 | 20 | 2217 | 20 | 2522 | 20 | 2357 | 20 | 2502 | 20 | 2673 |
| 25 | 1320 | 25 | 2216 | 25 | 2526 | 25 | 2357 | 25 | 2450 | 25 | 2699 |
| 0030 | 1348 | 0330 | 2202 | 0630 | 2546 | 0930 | 2353 | 1230 | 2460 | 1530 | 2467 |
| 35 | 1416 | 35 | 2188 | 35 | 2562 | 35 | 2360 | 35 | 2494 | 35 | 2462 |
| 40 | 1448 | 40 | 2163 | 40 | 2573 | 40 | 2372 | 40 | 2460 | 40 | 2460 |
| 45 | 1450 | 45 | 2147 | 45 | 2580 | 45 | 2379 | 45 | 2458 | 45 | 2459 |
| 50 | 1478 | 50 | 2146 | 50 | 2478 | 50 | 2384 | 50 | 2436 | 50 | 2462 |
| 55 | 1475 | 55 | 2166 | 55 | 2467 | 55 | 2379 | 55 | 2405 | 55 | 2460 |
| 0100 | 1460 | 0400 | 2215 | 0700 | 2760 | 1000 | 2300 | 1300 | 2464 | 1600 | 2464 |
| 05 | 1440 | 05 | 2320 | 05 | 2334 | 05 | 2300 | 05 | 2407 | 05 | 2464 |
| 10 | 1439 | 10 | 2336 | 10 | 2325 | 10 | 2300 | 10 | 2404 | 10 | 2464 |
| 15 | 1471 | 15 | 2424 | 15 | 2317 | 15 | 2300 | 15 | 2400 | 15 | 2462 |
| 20 | 1496 | 20 | 2457 | 20 | 2308 | 20 | 2300 | 20 | 2394 | 20 | 2463 |
| 25 | 1496 | 25 | 2510 | 25 | 2312 | 25 | 2300 | 25 | 2400 | 25 | 2467 |
| 0130 | 1511 | 0430 | 2540 | 0730 | 2324 | 1030 | 2300 | 1330 | 2404 | 1630 | 2471 |
| 35 | 1505 | 35 | 2578 | 35 | 2324 | 35 | 2300 | 35 | 2406 | 35 | 2476 |
| 40 | 1510 | 40 | 2637 | 40 | 2307 | 40 | 2300 | 40 | 2408 | 40 | 2477 |
| 45 | 1580 | 45 | 2658 | 45 | 2303 | 45 | 2300 | 45 | 2410 | 45 | 2482 |
| 50 | 1585 | 50 | 2662 | 50 | 2310 | 50 | 2300 | 50 | 2400 | 50 | 2483 |
| 55 | 1610 | 55 | 2684 | 55 | 2320 | 55 | 2300 | 55 | 2450 | 55 | 2486 |
| 0200 | 1658 | 0500 | 2726 | 0800 | 2340 | 1100 | 2512 | 1400 | 2470 | 1700 | 2485 |
| 05 | 1772 | 05 | 2767 | 05 | 2342 | 05 | 2503 | 05 | 2476 | 05 | 2482 |
| 10 | 1810 | 10 | 2895 | 10 | 2345 | 10 | 2495 | 10 | 2482 | 10 | 2478 |
| 15 | 1815 | 15 | 2878 | 15 | 2353 | 15 | 2504 | 15 | 2495 | 15 | 2483 |
| 20 | 1880 | 20 | 2877 | 20 | 2347 | 20 | 2522 | 20 | 2505 | 20 | 2485 |
| 25 | 1920 | 25 | 2875 | 25 | 2344 | 25 | 2523 | 25 | 2509 | 25 | 2486 |
| 0230 | 1966 | 0530 | 2875 | 0830 | 2351 | 1130 | 2559 | 1430 | 2510 | 1730 | 2472 |
| 35 | 2006 | 35 | 2875 | 35 | 2360 | 35 | 2509 | 35 | 2509 | 35 | 2451 |
| 40 | 2066 | 40 | 2875 | 40 | 2368 | 40 | 2502 | 40 | 2439 | 40 | 2439 |
| 45 | 2070 | 45 | 2775 | 45 | 2353 | 45 | 2386 | 45 | 2478 | 45 | 2446 |
| 50 | 2090 | 50 | 2740 | 50 | 2345 | 50 | 2375 | 50 | 2486 | 50 | 2557 |
| 55 | 2123 | 55 | 2665 | 55 | 2343 | 55 | 2361 | 55 | 2487 | 55 | 2558 |

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| IG 29-3 | | | COSTA RICA | | | IPOO | | | 16-07-78 | | |
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| 05 | 2180 | 05 | 1935 | 05 | 1959 | 05 | 1864 | 05 | 1150 | 05 | 308 |
| 10 | 2168 | 10 | 1915 | 10 | 1967 | 10 | 1875 | 10 | 1080 | 10 | 358 |
| 15 | 2139 | 15 | 1910 | 15 | 1958 | 15 | 1880 | 15 | 1100 | 15 | 416 |
| 20 | 2140 | 20 | 1938 | 20 | 1964 | 20 | 1876 | 20 | 1160 | 20 | 450 |
| 25 | 2164 | 25 | 1970 | 25 | 1966 | 25 | 1874 | 25 | --- | 25 | 491 |
| 0030 | 2160 | 0330 | 1994 | 0630 | 1964 | 0930 | 1872 | 1230 | 1389 | 1530 | 504 |
| 35 | 2160 | 35 | --- | 35 | 1958 | 35 | 1871 | 35 | 1480 | 35 | 521 |
| 40 | 2152 | 40 | 2030 | 40 | 1952 | 40 | 1870 | 40 | 1710 | 40 | 562 |
| 45 | 2145 | 45 | 2008 | 45 | 1958 | 45 | 1861 | 45 | 1810 | 45 | 573 |
| 50 | 2142 | 50 | 2030 | 50 | 1952 | 50 | 1813 | 50 | 1845 | 50 | 593 |
| 55 | 2120 | 55 | 2060 | 55 | 1946 | 55 | 1860 | 55 | --- | 55 | 628 |
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| 05 | 2113 | 05 | 2105 | 05 | 1939 | 05 | 1843 | 05 | 1942 | 05 | 619 |
| 10 | 2088 | 10 | 2075 | 10 | 1937 | 10 | 1838 | 10 | 1945 | 10 | 602 |
| 15 | 2082 | 15 | 2078 | 15 | 1937 | 15 | 1835 | 15 | 1940 | 15 | 579 |
| 20 | 2050 | 20 | 2121 | 20 | 1935 | 20 | 1831 | 20 | 1863 | 20 | 547 |
| 25 | 2040 | 25 | 2109 | 25 | 1931 | 25 | 1824 | 25 | 1790 | 25 | 483 |
| 0130 | 2030 | 0430 | 2106 | 0730 | 1918 | 1030 | 1815 | 1330 | 1720 | 1630 | 421 |
| 35 | 2020 | 35 | 2097 | 35 | 1925 | 35 | 1812 | 35 | 1646 | 35 | 370 |
| 40 | 2020 | 40 | 2090 | 40 | 1930 | 40 | 1810 | 40 | 1556 | 40 | 324 |
| 45 | 2025 | 45 | 2094 | 45 | 1924 | 45 | 1808 | 45 | 1430 | 45 | 294 |
| 50 | --- | 50 | 2094 | 50 | 1921 | 50 | 1815 | 50 | 1380 | 50 | 272 |
| 55 | 2035 | 55 | 2090 | 55 | 1925 | 55 | 1818 | 55 | 1263 | 55 | 233 |
| 0200 | 2043 | 0500 | 2063 | 0800 | 1926 | 1100 | 1815 | 1400 | 1160 | 1700 | 200 |
| 05 | 2010 | 05 | 2042 | 05 | 1924 | 05 | 1809 | 05 | 1000 | 05 | 169 |
| 10 | 2007 | 10 | 2028 | 10 | 1918 | 10 | 1797 | 10 | 850 | 10 | 137 |
| 15 | 2000 | 15 | 2008 | 15 | 1915 | 15 | 1745 | 15 | 740 | 15 | 115 |
| 20 | --- | 20 | 2003 | 20 | 1903 | 20 | 1705 | 20 | 665 | 20 | 98 |
| 25 | 1988 | 25 | 1978 | 25 | 1870 | 25 | 1450 | 25 | 540 | 25 | 88 |
| 0230 | 1996 | 0530 | 1990 | 0830 | 1896 | 1130 | 1386 | 1430 | 400 | 1730 | 80 |
| 35 | 1990 | 35 | 1981 | 35 | 1844 | 35 | 1415 | 35 | 323 | 35 | 74 |
| 40 | 1991 | 40 | 1994 | 40 | 1864 | 40 | 1492 | 40 | 300 | 40 | 69 |
| 45 | 1971 | 45 | 1997 | 45 | 1875 | 45 | 1546 | 45 | 260 | 45 | 75 |
| 50 | 1970 | 50 | 2010 | 50 | 1860 | 50 | 1536 | 50 | 262 | 50 | 72 |
| 55 | 1985 | 55 | 1964 | 55 | 1867 | 55 | 1466 | 55 | 270 | 55 | 69 |

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| IS 29-3 | | | NICOYA, COSTA RICA | | | IP 00 | | | 17-VII-78 | | |
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| 05 | 37 | 05 | 28 | 05 | 210 | 05 | 210 | 05 | 1484 | 05 | 1812 |
| 10 | 39 | 10 | 29 | 10 | 240 | 10 | 227 | 10 | 1500 | 10 | 1825 |
| 15 | 40 | 15 | 30 | 15 | 272 | 15 | 259 | 15 | 1505 | 15 | 1862 |
| 20 | 41 | 20 | 32 | 20 | 308 | 20 | 311 | 20 | 1511 | 20 | 1973 |
| 25 | 42 | 25 | 38 | 25 | 347 | 25 | 336 | 25 | 1520 | 25 | 1915 |
| 0030 | 43 | 0330 | 39 | 0630 | 388 | 0930 | 438 | 1230 | 1528 | 1530 | 1909 |
| 35 | 44 | 35 | 34 | 35 | 403 | 35 | 510 | 35 | 1535 | 35 | 1909 |
| 40 | 44 | 40 | 36 | 40 | 401 | 40 | 545 | 40 | 1540 | 40 | 1907 |
| 45 | 44 | 45 | 36 | 45 | 401 | 45 | 545 | 45 | 1545 | 45 | 1929 |
| 50 | 43 | 50 | 37 | 50 | 410 | 50 | 575 | 50 | 1564 | 50 | 1930 |
| 55 | 43 | 55 | 38 | 55 | 410 | 55 | 575 | 55 | 1560 | 55 | 1930 |
| 0100 | 43 | 0400 | 40 | 0700 | 413 | 1000 | 527 | 1300 | 1557 | 1600 | 1930 |
| 05 | 43 | 05 | 41 | 05 | 410 | 05 | 575 | 05 | 1548 | 05 | 1850 |
| 10 | 43 | 10 | 42 | 10 | 416 | 10 | 582 | 10 | 1550 | 10 | 1770 |
| 15 | 42 | 15 | 44 | 15 | 418 | 15 | 584 | 15 | 1535 | 15 | 1730 |
| 20 | 40 | 20 | 46 | 20 | 430 | 20 | 582 | 20 | 1525 | 20 | 1734 |
| 25 | 40 | 25 | 48 | 25 | 435 | 25 | 581 | 25 | 1518 | 25 | 1700 |
| 0130 | 40 | 0430 | 50 | 0730 | 467 | 1030 | 553 | 1330 | 1512 | 1630 | 1590 |
| 35 | 40 | 35 | 52 | 35 | 499 | 35 | 570 | 35 | 1512 | 35 | 1535 |
| 40 | 41 | 40 | 55 | 40 | 585 | 40 | 570 | 40 | 1516 | 40 | 1405 |
| 45 | 40 | 45 | 57 | 45 | 778 | 45 | 590 | 45 | 1508 | 45 | 1351 |
| 50 | 40 | 50 | 61 | 50 | 850 | 50 | 580 | 50 | 1505 | 50 | 1587 |
| 55 | 40 | 55 | 70 | 55 | 890 | 55 | 590 | 55 | 1492 | 55 | 1605 |
| 0200 | 37 | 0500 | 74 | 0800 | 908 | 1100 | 573 | 1400 | 1490 | 1700 | 1627 |
| 05 | 35 | 05 | 74 | 05 | 920 | 05 | 552 | 05 | 1470 | 05 | 1632 |
| 10 | 37 | 10 | 77 | 10 | 970 | 10 | 521 | 10 | 1456 | 10 | 1650 |
| 15 | 38 | 15 | 86 | 15 | 1040 | 15 | 512 | 15 | 1448 | 15 | 1654 |
| 20 | 38 | 20 | 89 | 20 | 1112 | 20 | 492 | 20 | 1422 | 20 | 1668 |
| 25 | 34 | 25 | 92 | 25 | 1150 | 25 | 485 | 25 | 1405 | 25 | 1678 |
| 0230 | 30 | 0530 | 98 | 0830 | 1167 | 1130 | 490 | 1430 | 1370 | 1730 | 1680 |
| 35 | 29 | 35 | 108 | 35 | 1169 | 35 | 500 | 35 | 1360 | 35 | 1713 |
| 40 | 28 | 40 | 122 | 40 | 1166 | 40 | 493 | 40 | 1365 | 40 | 1740 |
| 45 | 27 | 45 | 137 | 45 | 1142 | 45 | 492 | 45 | 1370 | 45 | 1777 |
| 50 | 27 | 50 | 151 | 50 | 1172 | 50 | 488 | 50 | 1384 | 50 | 1785 |
| 55 | 27 | 55 | 171 | 55 | 1174 | 55 | 483 | 55 | 1400 | 55 | 1794 |

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| CRUISE 1629-3 | | | AREA COSTA RICA | | | PROJECT IPOD | | | DATE 18-07-78 | | |
|------------------|-----|------|--------------------|------|------|-----------------|------|------|------------------|------|-----|
| TIME | | TIME | | TIME | | TIME | | TIME | | TIME | |
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| 05 | 94 | | 265 | | 642 | | --- | | 590 | | 181 |
| 10 | 80 | | 272 | | 650 | | --- | | 580 | | 165 |
| 15 | 74 | | 285 | | 661 | | --- | | 572 | | 108 |
| 20 | 70 | | 276 | | 674 | | 1260 | | 566 | | 92 |
| 25 | 68 | | 282 | | 690 | | 1273 | | 562 | | 84 |
| 0030 | 65 | 0330 | 291 | 0630 | 704 | 0930 | --- | 1230 | 552 | 1530 | 79 |
| 35 | 63 | | 315 | | 722 | | --- | | 549 | | 75 |
| 40 | 62 | | 326 | | 737 | | --- | | 546 | | 72 |
| 45 | 61 | | 321 | | 756 | | --- | | 550 | | 69 |
| 50 | 59 | | 312 | | 771 | | --- | | 539 | | 66 |
| 55 | 58 | | 353 | | 787 | | 592 | | 527 | | 63 |
| 0100 | 58 | 0400 | 370 | 0700 | 807 | 1000 | 570 | 1300 | 520 | 1600 | 61 |
| 05 | 58 | | 393 | 5 | 826 | | 612 | | 512 | | 58 |
| 10 | 60 | | 502 | 10 | 847 | | 638 | | 506 | | 56 |
| 15 | 61 | | 516 | 15 | 868 | | 723 | | 495 | | 53 |
| 20 | 62 | | 525 | 20 | 891 | | 788 | | 490 | | 51 |
| 25 | 65 | | 530 | 25 | 916 | | 818 | | 400 | | 50 |
| 0130 | 67 | 0430 | 538 | 0730 | 940 | 1030 | 827 | 1330 | 375 | 1630 | 50 |
| 35 | 69 | | 543 | | 1000 | | 850 | | 373 | | 51 |
| 40 | 71 | | 555 | | 1040 | | 829 | | 353 | | 51 |
| 45 | 73 | | 563 | | --- | | 808 | | 336 | | 51 |
| 50 | 75 | | 570 | | 1105 | | 805 | | 320 | | 52 |
| 55 | 80 | | 600 | | 1116 | | 805 | | 320 | | 52 |
| 0200 | 84 | 0500 | 592 | 0800 | 1125 | 1100 | 832 | 1400 | 294 | 1700 | 52 |
| 05 | 90 | | 606 | | 1133 | | 790 | | 284 | | 52 |
| 10 | 100 | | 612 | | 1158 | | 793 | | 278 | | 51 |
| 15 | 125 | | 620 | | 1180 | | 722 | | 270 | | 51 |
| 20 | 160 | | 640 | | 1180 | | 710 | | 265 | | 51 |
| 25 | 184 | | 643 | | 1190 | | 694 | | 262 | | 51 |
| 0230 | 203 | 0530 | 637 | 0830 | 1238 | 1130 | 675 | 1430 | 260 | 1730 | 51 |
| 35 | 220 | | 634 | | 1280 | | 662 | | 254 | | 51 |
| 40 | 233 | | 626 | | 1305 | | 642 | | 246 | | 51 |
| 45 | 242 | | 619 | | 1328 | | 630 | | 237 | | 51 |
| 50 | 250 | | 619 | | 1338 | | --- | | 227 | | 50 |
| 55 | 256 | | 625 | | --- | | --- | | 214 | | 50 |

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| CRUISE | | | | AREA | | | | PROJECT | | | | DATE | | | | | | |
|--------|--|------|------|------------|-----|------|--|---------|------|-------|------|----------|------|------|------|------|------|-----|
| IG29-3 | | | | COSTA RICA | | | | IPOD | | | | 19-01-78 | | | | | | |
| TIME | | TIME | | TIME | | TIME | | TIME | | TIME | | TIME | | TIME | | | | |
| 0000 | | 54 | 0300 | | 48 | 0600 | | 860 | 0900 | 1268 | 1200 | 853 | 1500 | 1552 | 1800 | 1311 | 2100 | 796 |
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| 10 | | 55 | 10 | | 55 | 10 | | 975 | 10 | | 10 | 835 | 10 | 1577 | 10 | 1123 | 10 | 810 |
| 15 | | 55 | 15 | | 58 | 15 | | 1020 | 15 | | 15 | 800 | 15 | 1594 | 15 | 1062 | 15 | 808 |
| 20 | | 55 | 20 | | 62 | 20 | | 1078 | 20 | | 20 | 695 | 20 | 1607 | 20 | 896 | 20 | 808 |
| 25 | | 54 | 25 | | 66 | 25 | | 1155 | 25 | 1267 | 25 | 650 | 25 | 1637 | 25 | 730 | 25 | 808 |
| 0030 | | 53 | 0330 | | 69 | 0630 | | 1302 | 0930 | 1328 | 1230 | 806 | 1530 | 1647 | 1830 | 656 | 2130 | 780 |
| 35 | | 50 | 35 | | 72 | 35 | | 1340 | 35 | 1330 | 35 | 795 | 35 | 1653 | 35 | 604 | 35 | 775 |
| 40 | | 46 | 40 | | 75 | 40 | | 1356 | 40 | 1278 | 40 | 787 | 40 | 1646 | 40 | 584 | 40 | 787 |
| 45 | | 45 | 45 | | 78 | 45 | | 1400 | 45 | 1400 | 45 | 780 | 45 | 1648 | 45 | 590 | 45 | 772 |
| 50 | | 43 | 50 | | 81 | 50 | | 1413 | 50 | 1395 | 50 | 890 | 50 | 1670 | 50 | 608 | 50 | 786 |
| 55 | | 41 | 55 | | 87 | 55 | | 1487 | 55 | 1386 | 55 | 1075 | 55 | 1695 | 55 | 665 | 55 | 779 |
| 0100 | | 40 | 0400 | | 95 | 0700 | | 1508 | 1000 | 11380 | 1300 | 1070 | 1600 | 1738 | 1900 | 714 | 2200 | 770 |
| 05 | | 39 | 05 | | 99 | 05 | | 1505 | 05 | 1374 | 05 | 1180 | 05 | 1735 | 05 | 748 | 05 | 762 |
| 10 | | 37 | 10 | | 103 | 10 | | 1498 | 10 | 1365 | 10 | 1232 | 10 | 1739 | 10 | 760 | 10 | 755 |
| 15 | | 35 | 15 | | 109 | 15 | | 1486 | 15 | 1361 | 15 | 1260 | 15 | 1745 | 15 | 760 | 15 | 745 |
| 20 | | 35 | 20 | | 116 | 20 | | 1471 | 20 | 1335 | 20 | 1338 | 20 | 1749 | 20 | 750 | 20 | 749 |
| 25 | | 35 | 25 | | 122 | 25 | | 1449 | 25 | 1327 | 25 | 1340 | 25 | 1775 | 25 | 740 | 25 | 777 |
| 0130 | | 35 | 0430 | | 130 | 0730 | | 1430 | 1030 | 1325 | 1330 | 1360 | 1630 | 1844 | 1930 | 725 | 2230 | 783 |
| 35 | | 35 | 35 | | 140 | 35 | | 1440 | 35 | 1325 | 35 | 1380 | 35 | 1839 | 35 | 725 | 35 | 764 |
| 40 | | 35 | 40 | | 209 | 40 | | 1419 | 40 | 1321 | 40 | 1400 | 40 | 1841 | 40 | 725 | 40 | 733 |
| 45 | | 35 | 45 | | 257 | 45 | | 1400 | 45 | 1322 | 45 | 1410 | 45 | 1854 | 45 | 719 | 45 | 722 |
| 50 | | 35 | 50 | | 289 | 50 | | 1385 | 50 | 1325 | 50 | 1428 | 50 | 1882 | 50 | 718 | 50 | 705 |
| 55 | | 35 | 55 | | 318 | 55 | | 1376 | 55 | 1320 | 55 | 1440 | 55 | 1898 | 55 | 723 | 55 | 692 |
| 0200 | | 35 | 0500 | | 334 | 0800 | | 1370 | 1100 | 1305 | 1400 | 1450 | 1700 | 1875 | 2000 | 740 | 2300 | 692 |
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| 20 | | 35 | 20 | | 477 | 20 | | 1325 | 20 | 1245 | 20 | 1494 | 20 | 1752 | 20 | 774 | 20 | 785 |
| 25 | | 40 | 25 | | 514 | 25 | | 1300 | 25 | 1241 | 25 | 1498 | 25 | 1749 | 25 | 776 | 25 | 770 |
| 0230 | | 41 | 0530 | | 546 | 0830 | | 1320 | 1130 | 1230 | 1430 | 1508 | 1730 | 1672 | 2030 | 771 | 2330 | 812 |
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| 25 | 890 | 25 | 276 | 25 | 920 | 25 | 903 |
| 0030 | 840 | 0330 | 308 | 0630 | 1003 | 0930 | 903 |
| 35 | 845 | 35 | 288 | 35 | 1003 | 35 | 900 |
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| 45 | 780 | 45 | 299 | 45 | 997 | 45 | 892 |
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| 20 | 600 | 20 | 420 | 20 | 998 | 20 | 847 |
| 25 | 569 | 25 | 405 | 25 | 1005 | 25 | 852 |
| 0130 | 505 | 0430 | 517 | 0730 | 1006 | 1030 | 845 |
| 35 | 460 | 35 | 528 | 35 | 989 | 35 | 855 |
| 40 | 443 | 40 | 546 | 40 | 968 | 40 | 855 |
| 45 | 421 | 45 | 481 | 45 | 985 | 45 | 849 |
| 50 | 417 | 50 | 413 | 50 | 992 | 50 | 849 |
| 55 | 423 | 55 | 464 | 55 | 950 | 55 | 853 |
| 0200 | 415 | 0500 | 622 | 0800 | 702 | 1100 | 860 |
| 05 | 446 | 05 | 765 | 05 | 782 | 05 | 868 |
| 10 | 461 | 10 | 840 | 10 | 850 | 10 | 883 |
| 15 | 460 | 15 | 860 | 15 | 885 | 15 | 895 |
| 20 | 447 | 20 | 867 | 20 | 887 | 20 | 920 |
| 25 | 438 | 25 | 940 | 25 | | 25 | 945 |
| 0230 | 468 | 0530 | 890 | 0830 | 660 | 1130 | 980 |
| 35 | 410 | 35 | 880 | 35 | 735 | 35 | 995 |
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| 45 | 475 | 45 | 962 | 45 | 820 | 45 | 1065 |
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| 985 | 10 | 1193 | 10 | 1120 | 10 | 123 | |
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| 900 | 25 | 1226 | 25 | 1092 | 25 | 155 | |
| 860 | 1530 | 1226 | 1830 | 1132 | 2130 | 168 | |
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| 860 | 40 | 1236 | 40 | 1214 | 40 | 211 | |
| 870 | 45 | 1232 | 45 | 1230 | 45 | 210 | |
| 884 | 50 | 1213 | 50 | 1234 | 50 | 215 | |
| 870 | 55 | 1191 | 55 | 1241 | 55 | 220 | |
| 858 | 1600 | 1203 | 1900 | 1248 | 2200 | 230 | |
| 890 | 05 | 1250 | 05 | 1226 | 05 | 243 | |
| 858 | 10 | 1271 | 10 | 1248 | 10 | 259 | |
| 903 | 15 | 1285 | 15 | 1264 | 15 | 261 | |
| 958 | 20 | 1345 | 20 | 1269 | 20 | 265 | |
| 958 | 25 | 1344 | 25 | 1273 | 25 | 274 | |
| 958 | 35 | 1465 | 35 | 1235 | 35 | 270 | |
| 960 | 40 | 1501 | 40 | 1215 | 40 | 297 | |
| 998 | 45 | 1597 | 45 | | 45 | 316 | |
| 1020 | 50 | 1684 | 50 | 1043 | 50 | 333 | |
| 982 | 55 | 1701 | 55 | 1021 | 55 | 346 | |
| 1015 | 1700 | 1707 | 2000 | 1030 | 2300 | 352 | |
| ?? | 05 | 1698 | 05 | 1060 | 05 | 320 | |
| 1029 | 10 | 1699 | 10 | 1072 | 10 | 325 | |
| 1035 | 15 | 1691 | 15 | 1088 | 15 | 352 | |
| 1038 | 20 | 1695 | 20 | 1102 | 20 | 415 | |
| 1069 | 25 | 1698 | 25 | 1100 | 25 | 407 | |
| 1118 | 1730 | 1693 | 2030 | 1072 | 2330 | 333 | |
| 1158 | 35 | | 35 | 940 | 35 | 370 | |
| 1162 | 40 | | 40 | 700 | 40 | 410 | |
| 1130 | 45 | 1433 | 45 | 633 | 45 | 170 | |
| 1070 | 50 | 1361 | 50 | 560 | 50 | 471 | |
| 1159 | 55 | 1296 | 55 | 400 | 55 | 505 | |

File #23

BATHYMETRY

Bathymetry

LOG

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| CRUISE | | | AREA | | | PROJECT | | | DATE | | | | |
|--------|-----|------|--------|------|-----|---------|-------------|------|--------------|------|----|------|----|
| I629-3 | | | PANAMA | | | IPOD | | | 21. VII - 78 | | | | |
| TIME | | TIME | | TIME | | TIME | | TIME | | TIME | | TIME | |
| 0000 | 570 | 0300 | 782 | 0600 | 955 | 0900 | 367 | 1200 | 80 | 1500 | 49 | 1800 | 33 |
| 05 | 578 | 05 | 788 | 05 | 937 | 05 | 384 | 05 | 80 | 05 | 50 | 05 | 33 |
| 10 | 583 | 10 | 805 | 10 | 957 | 10 | 452 | 10 | 74 | 10 | 51 | 10 | 32 |
| 15 | 590 | 15 | 834 | 15 | 968 | 15 | 310 | 15 | 72 | 15 | 52 | 15 | 32 |
| 20 | 602 | 20 | 873 | 20 | 985 | 20 | 225 | 20 | 71 | 20 | 53 | 20 | 32 |
| 25 | 610 | 25 | 915 | 25 | 977 | 25 | 298 | 25 | 71 | 25 | 52 | 25 | 31 |
| 0030 | 610 | 0330 | 957 | 0630 | 944 | 0930 | 270 | 1230 | 70 | 1530 | 51 | 1830 | 31 |
| 35 | 610 | 35 | 992 | 35 | 912 | 35 | 210 | 35 | 72 | 35 | 50 | 35 | 30 |
| 40 | 610 | 40 | 1005 | 40 | 884 | 40 | 181 | 40 | 70 | 40 | 49 | 40 | 28 |
| 45 | 600 | 45 | 1034 | 45 | 793 | 45 | 170 | 45 | 61 | 45 | 50 | 45 | 28 |
| 50 | 592 | 50 | 1058 | 50 | 757 | 50 | 175 | 50 | 60 | 50 | 49 | 50 | 27 |
| 55 | 588 | 55 | 1097 | 55 | 754 | 55 | 183 | 55 | 66 | 55 | 49 | 55 | 26 |
| 0100 | 605 | 0400 | 1152 | 0700 | 692 | 1000 | 193 | 1300 | 71 | 1600 | 49 | 1900 | 25 |
| 05 | 614 | 05 | 1224 | 05 | 599 | 05 | FABER CHARG | 05 | 70 | 05 | 49 | 05 | 23 |
| 10 | 615 | 10 | 1224 | 10 | 568 | 10 | 216 | 10 | 68 | 10 | 49 | 10 | 22 |
| 15 | 622 | 15 | 1204 | 15 | 564 | 15 | 226 | 15 | 66 | 15 | 49 | 15 | 21 |
| 20 | 617 | 20 | 1218 | 20 | 515 | 20 | 237 | 20 | 65 | 20 | 48 | 20 | 20 |
| 25 | 530 | 25 | 1224 | 25 | 537 | 25 | 227 | 25 | 65 | 25 | 48 | 25 | 20 |
| 0130 | 643 | 0430 | 1239 | 0730 | 479 | 1030 | 213 | 1330 | 65 | 1630 | 47 | 1930 | 20 |
| 35 | 740 | 35 | 1288 | 35 | 350 | 35 | 200 | 35 | 65 | 35 | 47 | 35 | 19 |
| 40 | 822 | 40 | 1165 | 40 | 153 | 40 | 128 | 40 | 64 | 40 | 46 | 40 | 19 |
| 45 | 804 | 45 | 1112 | 45 | 105 | 45 | 178 | 45 | 64 | 45 | 46 | 45 | 19 |
| 50 | 795 | 50 | 1056 | 50 | 167 | 50 | 168 | 50 | 63 | 50 | 46 | 50 | 19 |
| 55 | 806 | 55 | 1019 | 55 | 171 | 55 | 160 | 55 | 62 | 55 | 46 | 55 | 19 |
| 0200 | 810 | 0500 | 992 | 0800 | 177 | 1100 | 150 | 1400 | 61 | 1700 | 46 | 2000 | 18 |
| 05 | 838 | 05 | 992 | 05 | 190 | 05 | 137 | 05 | 60 | 05 | 45 | 05 | 18 |
| 10 | 880 | 10 | 932 | 10 | 207 | 10 | 126 | 10 | 59 | 10 | 45 | 10 | 18 |
| 15 | 898 | 15 | 974 | 15 | 237 | 15 | 115 | 15 | 58 | 15 | 44 | 15 | 18 |
| 20 | 837 | 20 | 966 | 20 | 340 | 20 | 110 | 20 | 57 | 20 | 42 | 20 | 18 |
| 25 | 952 | 25 | 964 | 25 | 460 | 25 | 105 | 25 | 57 | 25 | 41 | 25 | 18 |
| 0230 | 718 | 0530 | 969 | 0830 | 512 | 1130 | 100 | 1430 | 56 | 1730 | 40 | 2030 | 18 |
| 35 | 704 | 35 | 972 | 35 | 610 | 35 | 93 | 35 | 55 | 35 | 39 | 35 | 18 |
| 40 | 718 | 40 | 968 | 40 | 480 | 40 | 88 | 40 | 56 | 40 | 37 | 40 | 18 |
| 45 | 723 | 45 | 982 | 45 | 580 | 45 | 88 | 45 | 55 | 45 | 36 | 45 | 18 |
| 50 | 732 | 50 | 996 | 50 | 650 | 50 | 87 | 50 | 53 | 50 | 35 | 50 | 18 |
| 55 | 744 | 55 | 959 | 55 | 470 | 55 | 84 | 55 | 50 | 55 | 34 | 55 | 17 |

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BATHYMETRY