

State of California The Resources Agency Department of Fish and Game

DENSITIES AND SIZE COMPOSITIONS OF RED ABALONE, Haliotis rufescens, AT FIVE LOCATIONS ON THE MENDOCINO AND SONOMA COUNTY COASTS, SEPTEMBER 1986

by

David O. Parker Peter L. Haaker Kristine C. Henderson



Marine Resources Division Administrative Report No. 88-5



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ABSTRACT

Red abalone, *Haliotis rufescens*, populations were sampled on 155 transects at five locations along the Mendocino and Sonoma County coast in September 1986. Although abalone occurrence was highly variable, the highest abundance usually occurred in relatively shallow nearshore areas. Size compositions were dominated by large, old abalone with all locations having 50% or more abalone larger than the recreational minimum size. Densities of red sea urchins, *Strongylocentrotus franciscanus*, on the transects were also variable, but high urchin abundance tended to occur at greater depths than high abalone abundance.

 $[\]frac{1}{2}$ Marine Resources Administrative Report No. 88-5

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ACKNOWLEDGEMENTS

Many people are responsible for gathering the data upon which this report is based. The entire staff of California Department of Fish and Game certified diving personnel should be commended for their conscientious and diligent efforts in the field. Dr. John De Martini of Humboldt State University, and Ashford "Woody" Wood and Walt Saylors of the California Department of Parks and Recreation deserve thanks for lending their skill and knowledge. We would especially like to thank Randy Brannock and the California Abalone Association for providing a group of CAA members who volunteered their time, vessels, and expertise in the Arena Cove area.

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Introduction

Red abalone, Haliotis rufescens, are widespread along California's northern coast and support one of the most important recreational fisheries in the area. Nearshore zones off Mendocino and Sonoma counties have extensive abalone habitat and receive a majority of harvesting pressure. Recreational harvest has grown steadily with a tenfold increase in diver effort since 1960. The 1987 recreational harvest is estimated at over 2.2 million $1b.1^{/}$. Commercial abalone harvesting is not permitted on the northern coast. Information from field observations concerning the fishery and the resource as well as harvest characteristics, is required for effective management.

In recent years considerable knowledge has been gained about red abalone growth rates, movement patterns, and reproductive biology at selected locations on the north coast. Recreational catch and effort data were collected by the California Department of Fish and Game (CDFG) at high use sites in 1960 (Miller and Gotshall 1965), in 1972, (Miller, Geibel and Houk 1974, Gotshall et al. 1974) and from 1977 to present. $\frac{1}{2}$

Early field surveys to gather information about the abundance and size composition of red abalone were conducted infrequently and only at a few locations. For example, Thompson (1920) reported on the intertidal occurrence of red abalone at 40 locations from Point Saint George (Del Norte County) to Double Point (Marin County). Cox (1962) concluded, after several years of diving surveys, that red abalone were abundant in only limited areas on the north coast. These early observations were hampered $\frac{1}{K}$. Karpov. California Dept. Fish and Game

by cumbersome hard-hat diving gear which did not lend itself to quantitative, thorough, or efficient nearshore observations.

Recently, however, surveys using the more adaptable scuba diving techniques have been undertaken. Personnel of the CDFG conducted a stratified random survey of red abalone, in 1971, at Van Damme State Park (Mendocino County) and Fort Ross Reef (Sonoma County). Although estimating the population size proved impractical, valuable information was gained on abundance, depth distribution, and size structure of the red abalone populations at these locations. At the Point Arena area (Mendocino County), in 1971-72, red abalone abundance was sampled at 43 stations in conjunction with a power plant siting survey (Gotshall et al. 1974). In 1975 red abalone abundance was assessed at 33 locations from Russian Gulch (Mendocino County) to Sunken Reef (Sonoma County) (Schultz and Burge 1975). During this survey, timed free-swimming diver counts were used for qualitative assessments and comparisons between areas, but the data are not directly comparable to transect counts or other fixed area counts. Workers from the University of San Francisco (Knapik et al. 1980) sampled red abalone abundance and size structure in depths of 10 m (33 ft) or less at six locations (one unharvested location, one heavily harvested, and four moderately harvested) from Russian Gulch to Van Damme State Park.

In light of the continuing large recreational harvest and the scattered availability of field data, CDFG scheduled an extensive survey of red abalone in 1986. The survey was held September 16-18, at five locations on the Mendocino and Sonoma County coasts, in conjunction with the annual CDFG scuba

recertification course when a large number of divers (≈40) would be available. Additional participants included personnel from the California Abalone Association (CAA), California Department of Parks and Recreation, and Humboldt State University.

The primary objective of the survey was to gather information on the abundance and size structure of red abalone in various depths at each survey location. The relationship of the minimum harvest size limit to the size structure of the abalone population is also examined. Results are compared to previous survey results whenever possible.

Procedure

Survey locations were selected at Point Cabrillo Reserve (Mendocino County), and Van Damme State Park, Arena Cove area, Salt Point State Park and Fort Ross State Park (Sonoma County), (Figures 1-5). The Fort Ross, Van Damme, and Salt Point areas receive heavy harvesting pressure and have been the subject of previous surveys. The Arena Cove area was suggested by the CAA as one with a potential for commercial harvest. Point Cabrillo, a protected reserve location, served as an example of an unharvested area.

Dive teams sampled the red abalone stocks by using 30 x 2 m band transects in four general depth ranges. To simplify counting mechanics, each transect was divided into three 10 m segments. All exposed abalone were counted on each side of each 10 m transect segment, and the maximum shell length of the first 25 abalone on each transect was measured to the nearest mm. Rocks, boulders, and other substrate components were not disturbed while the counts were made. Red sea urchins,

Strongylocentrotus franciscanus, a possible major abalone competitor, were also counted on each transect segment (truncated at ≥100/segment due to priority of abalone sampling). The extent of algal cover, substrate type, and abalone predators were also noted.

Mean densities with standard deviations and size frequency histograms are included for each depth and survey location. Figures presenting these results are numbered and arranged in a north-south geographical order for ease of reference. No attempt is made to provide detailed statistical analysis of the data which may be the subject of a future report. Complete raw data from each transect are presented in Appendix A.

With the exception of the Arena Cove area, a transect site was determined by each dive team depending on accessibility, depth, and sea conditions and without regard to abalone occurrence. Most sampling sites at the Arena Cove area were preselected by the CAA based on a potential of high abalone abundance; the remainder of the sites were in the same general areas as previous Arena Cove surveys (1971-1972).

Results and Discussion

A total of 155 transects, covering 9300 m², was completed during the three days of field work. Despite periods of scattered rain, weather and sea conditions did not restrict diving operations.

Abundance

Abalone abundance at each sampling site was quite variable between and within individual transects (Appendix A) and within

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each depth range (Figures 6-10). Such variability is characteristic of abalone distributions (Appendix B, Gotshall et al. 1974, Schultz and Burge 1975, Knapik et al. 1980). It results largely from the type of substrate, wave surge exposure level, and preference for particular microhabitats, which consistently provide feeding opportunities and protection. Despite this variability, red abalone were most abundant in relatively shallow nearshore waters from the low intertidal area to depths of approximately 30 ft. Past surveys also show this trend (Appendix B, Gotshall et al. 1974, Schultz and Burge 1975, Knapik et al. 1980).

Although the number of transects was not equal for each depth or location, a general trend of decreasing mean abalone density with increasing depth was apparent at Van Damme, Salt Point and Fort Ross (Figures 7, 9 and 10). Because of the wide standard deviations resulting from variability in abalone occurrence, definite conclusions about abalone depth-abundance patterns would be premature. Nevertheless, the patterns observed during this survey are similar to previous surveys at these and other north coast locations (Appendix B, Gotshall et al. 1974, Schultz and Burge 1975, Knapik et al. 1980). At the Point Cabrillo site (Figure 6) mean density was highest in the deepest depth range. Knapik et al. (1980) also reported increased abalone abundance on deeper transects at Point Cabrillo. This pattern may be due to a bottom configuration which funnels drift algae to deeper zones, thus providing food to support higher numbers of abalone there. $\frac{1}{2}$ Results from the Arena Cove area $\frac{1}{}$ S. Schultz, Fort Bragg, CA

(Figure 8) give a clouded picture of abalone depth-abundance because a majority of the stations were preselected as locations with high abalone densities. Differences in sampling technique between the two survey groups (CDFG and CAA) also may have contributed to these results. Gotshall et al. (1974) reported a definite inverse depth-abundance pattern on 43 randomly chosen stations in the Arena Cove area.

A comparison of overall red abalone abundance between sites in this survey shows that transects at Point Cabrillo and Arena Cove had the highest mean abalone densities of 1.21 and $1.37/m^2$ respectively. Point Cabrillo has been closed to harvesting since 1971 and we expected to find a high abundance of abalone there. The overall mean density at Point Cabrillo from this survey compares closely to that found there by Knapik et al. (1980) of 1.5/m². Interestingly, on the 12 transects completed by CAA volunteers at Arena Cove the mean density was 2.14/m² while on 16 transects completed by CDFG at the same sites the mean density was $0.80/m^2$. Based on observations at the time, the difference is most likely due to varying experience levels between the two groups in establishing transects without regard for habitat type and/or abalone occurrence. At the Arena Cove area, in 1971-72, Gotshall et al. (1974) reported red abalone density of 0.21/m² for 43 stations including 16 in depths greater than 45 ft which had no abalone. Unbiased station selection in the Arena Cove area during this survey might have produced much lower mean densities more comparable with the 1971-72 results.

In this survey, the heavily harvested sites at Van Damme, Salt Point, and Fort Ross, showed overall mean densities of 0.24,

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0.43, 0.21/m² respectively. These observations compare with 0.12 and 0.94/m² for Van Damme and Fort Ross respectively in 1971 Appendix B) and 0.19/m² for Van Damme in 1980 (Knapik et al. 1980). The mean density at the Fort Ross site was high in 1971 because that survey was confined to Fort Ross reef. Fort Ross reef also had some of the higher densities in the present survey which covered a greater portion of Fort Ross State Park.

Size Composition

The size frequencies (Figures 11-17) show that the bulk of the exposed abalone on the transects range between 6 and 8 in. (150-200 mm) in shell length. This pattern is similar to many previous samples of exposed abalone (Appendix B, Schultz and Burge 1975, Knapik et al. 1980) and results from the accumulation of numerous age classes as growth slows with age. Size distributions were similar between depth ranges at each survey location. The Arena Cove area had more large abalone (Figure 15) than the other four locations; this may be due to the relative inaccessibility of many of the transect sites. Nearly all of the larger abalone were recorded in the frequencies obtained by CAA volunteers (Figures 13 and 14). This may be another indication of the differing experience levels between the two groups of divers at this location. On the other hand, Point Cabrillo, closed to all harvesting, had a size distribution similar to the three heavily harvested areas, not the expected high frequency of larger abalone. Ault and DeMartini (1987) report a high incidence of red abalone movement at Pt. Cabrillo within and beyond the reserve boundaries. Movement to and from

adjacent areas open to harvest, and the small size of the reserve (2,000 ft. along shore) may contribute to the observed size frequency. We are concerned with the apparent low occurrence of abalone measuring between 5 and 6 in. (125-150 mm) at all survey locations. Abalone of this size represent the strength of incoming year classes which will support the fishery in the future.

The percentages of abalone larger than the recreational minimum size of 7 in. (178 mm) were high at all locations, ranging from 50% at Van Damme to 75% at Arena Cove (Table 1). These percentages are somewhat surprising for the three heavily harvested areas (Van Damme, Salt Point, and Fort Ross), although Schultz and Burge (1975) found that 31 to 60% of the abalone were above the seven-inch minimum. Apparently, harvesting restricted to shorepicking and free-diving leaves a significant proportion of harvestable abalone even in traditional heavy-use areas. Percentages of abalone larger than the commercial minimum size of 7-3/4 in. (197 mm) however, were not as great, ranging from 11% at Point Cabrillo to 40% at Arena Cove.

Red Sea Urchin Densities

The density of red sea urchins ranged from 1.0/m² at Van Damme to 3.2/m² at the Arena Cove area (Figures 18, 19, 20, 21, 22). Both areas have received considerable sea urchin harvesting pressure since 1985. In general, sea urchin densities were higher in depths greater than 30 ft, but, as with abalone densities, there was considerable variation between and within

individual transects. In most cases, high sea urchin densities usually were not associated with high abalone densities; this lends support to the hypothesis of competitive interaction and exclusion between abalone and sea urchins (Shepard 1973, Tegner and Levin 1982).

Summary

- A total of 155 transects covering 9,300/m² was completed during this survey.
- 2. The highest mean densities of exposed red abalone were 1.21 and 1.38/m² at Point Cabrillo Reserve and the Arena Cove area. The three heavily harvested sites, Van Damme, Salt Point and Fort Ross State Parks had lower densities of 0.24, 0.43, and 0.21/m², respectively.
- 3. Abalone abundance at each sampling site was quite variable between and within individual transects. Despite such variability, abalone were consistently most abundant from the low intertidal zone to depths of approximately 30 ft.
- 4. The bulk of the exposed abalone population is composed of large individuals between 6 and 8 in. (150-200 mm).
- 5. The percentage of the abalone larger that the minimum recreational harvest size at the five survey locations ranged from 50 to 75%.
- 6. Red sea urchin densities ranged from 1.0 to 3.2/m² and tended to be higher in depths greater than 30 ft. High sea urchin and abalone densities usually did not occur on the same transect.

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FIGURE 1. Transect locations (at arrows) and numbers for Point Cabrillo Reserve, September 1986.

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FIGURE 2. Transect locations (at arrows) and numbers for Van Damme State Park, September 1986.



FIGURE 3. Transect locations (at arrows) and numbers for Arena Cove area, September 1986.

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FIGURE 4. Transect locations (at arrows) and numbers for Salt Point State Park, September 1986.

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| Area | 0-20 | 21-35 | 36-45 | > 45 | Totals | |
|--------------------|------|-------|-------|------------|--------|--|
| Pt. Cabrillo | | | | | | |
| n | 386 | 146 | 129 | 9 0 | 751 | |
| <u>></u> 7" | 192 | 87 | 84 | 60 | 423 | |
| * | 50 | 60 | 65 | 67 | 56 | |
| <u>></u> 7-3/4" | 39 | 17 | 17 | 12 | 85 | |
| × | 10 | 12 | 13 | 13 | 11 | |
| Van Damme | | | | | | |
| n | 241 | 81 | 3 | 1 | 326 | |
| <u>></u> 7" | 103 | 58 | 2 | 1 | 164 | |
| * | 43 | 72 | 67 | 100 | 50 | |
| <u>></u> 7-3/4" | 31 | 23 | 0 | 1 | 55 | |
| * | 13 | 28 | 0 | 100 | 17 | |
| Arena Cove | | | | | | |
| n | 109 | 480 | 145 | 37 | 771 | |
| <u>></u> 7" | 73 | 360 | 111 | 36 | 580 | |
| * | 67 | 75 | 77 | 97 | 75 | |
| <u>></u> 7-3/4" | 29 | 198 | 63 | 21 | 311 | |
| * | 27 | 41 | 44 | 57 | 40 | |
| Salt Pt. | | | | | | |
| n | 207 | 129 | 39 | - | 375 | |
| <u>></u> 7" | 130 | 85 | 24 | - | 239 | |
| * | 63 | 66 | 62 | - | 64 | |
| <u>></u> 7-3/4" | 40 | 37 | 14 | - | 91 | |
| * | 19 | 29 | 36 | - | 24 | |
| Ft. Ross | | | | | | |
| n | 134 | 88 | 20 | 4 | 243 | |
| <u>></u> 7" | 76 | 56 | 9 | 3 | 144 | |
| * | 57 | 64 | 45 | 75 | 59 | |
| <u>></u> 7-3/4" | 19 | 10 | 2 | 0 | 31 | |
| * | 14 | 11 | 10 | 0 | 13 | |

Table 1. Red Abalone Size Composition Relative to Recreational (7 inch) and Commercial (7-3/4 inch) Minimum Sizes From Transects at Five Locations on the Sonoma and Mendocino County Coasts, September 1986.

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APPENDIX A

TRANSECT DATA FROM PT. CABRILLO RESERVE, VAN DAMME STATE PARK, ARENA COVE AREA, SALT POINT STATE PARK, AND FORT ROSS STATE PARK SEPTEMBER 1986

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Explanation of Transect Data Display Format

'Area' (- ft): General survey location and depth range. Location: Transect number referenced to Figures 1-5. Date: self explanatory Depth: self explanatory Transect Counts 'a' and 'b' are counts for each transect side Red Abalone: by 10 meter segments. Totals are given for each segment and for entire transect. Red Urchin: Same format as red abalone. Red Abalone Lengths (mm): Maximum shell length in mm for up to first 30 red abalone on transect irrespective of side (a/b). Number: Total abalone measured for each transect. Mean length: Mean shell length of abalone measured on each transect

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| Mr. Cebrillo (0 - 1 Location Dete Deeth (M) | 22 22 23 23 22 23 23 | | | 5 7 8 | | | 8 A 8 | | PCI(18 13 | - | | PCIA 17 13 | | a . | C15 17 18 | | 5== | <u></u> | | PC18 18 18 | | | 12 1 21 | | |
|--|-------------------------|----------------|---------|------------|--------------|------------|--------------|-----------------------|------------------|------------|------------|------------------|------------------|-----------------|-----------------|----------------|-------------|------------|---------------|------------------|----------|-----------|----------------|------------|-----------------|
| Transect Counts Red Abalone 0-10 10-20 20-31 | • 3 2 3 | ₽ 3 5 8 | ម្មន្លន | r 13 38 • | ۵ <u>و</u> و | 2 R R G | | ء 2 2 5 to 11 11 P | * 2 2 2 | | 3 & 23 fe | 8 11 8 ¥ | D * • • • | tot 15 21 | . • | <u>م م م</u> م | e 13 7 gt | • % * 5 | _ vo vo vo | * 2 - 2 | 2 2 2 4 | 38=4 | 31 31 31 | ~ % % 2 | tot 86 19 |
| | | | 1 8 | | | 8 | | 1.0 | : 12 | | 66 | | | 12 | | | 31 | | ; • | . •2 | | 8 | | | 1 2 |
| Red Urchin | - | - | ţ | - | ے م | tot | - | ه ډ | ت ب | م | tot | • | م | tot | • | م | to | - | <u>ع</u> م | ء به | ۵ | tot | • | م | tot |
| 0-10 | , • | | • | ; | ~ | ••• | | ~ | 2 | 6 | 0 | D | - 1 | - ; | • | • | • | P • | | 2 | - | | - ; | | •; |
| 10-20 20-30 | - 3 | 0 1 | - 3 | 8 • | ~ | 7 • | 8 8 | | 2 2 | ~ ~ | 0 0 | 8 - | G - | 18 | • 5 | 83 | e 13 | • ¥ | | | | | | 8 8 | : * |
| | | | 15 | | | 1 9 | | 1 12 | 1 10 | | | | | 2 | | | 1 8 | | • • • | : * | | 0 | | 1 | 1 8 |
| Red Abalane Length | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 165 | 185 | | 160 | 125 | | 160 | 99 | 14 | 5 13 | 5 | 185 | 215 | | 185 | 181 | 7 | 15 1 | 5 | 01 | 7 180 | - | 140 | Ŕ | |
| | 165 | Ř | | 165 | 140 | | 2 | 165 | 9 | 2 : 0 : | 5 | r 1 | <u></u> 2 : | | 165 | <u>و</u> | • | 8 | 8; | <u></u> | ∽ 5 8 | ~ ^ | í i | 6 | |
| | 59 R | <u>8</u> | | <u>e</u> e | 51 SI | | RR | <u>s</u> R | 9 9 | 9 9 9 9 | 2 P | 88 | 8 8 8 | | <u> </u> | 191 | | < R | e 8 | | | | | <u>s</u> | |
| | R | | | 182 1 | 2 | | R | RE | 91 | 5 | 8 6 | 135 | ž ž | | 176 | 51 F | | 59 8 | 8 5 | 1 | 5 195 | ~ ~ | 85 | 091 X(1 | |
| | <u> </u> | 165 | | 182 182 | | | 2 12 | 2 | 1 | | 2 E | | B | | 121 | 3 | | 8 | 2 6 | 2 | | | 8 | 185 | |
| | 8 | Ŗ | | 185 | 185 | | ĸ | 2 | 1 | 11 P | 5 | 215 | 103 | | 180 | 185 | - | 50 | 7 | 17 | 8 18(| _ | 145 | 110 | |
| | | <u>R</u> ! | | 185 261 | 81 | | <u>8</u> | 2 | = : | 2 : 2 : | £ : | 185 | 188 | | | | | <u> </u> | ? : | 8 | | | 215 | 212 | |
| | 6 | 2 2 | | 2 2 | 61 182 | | 61 58 | | 191 | | c #2 | 2 2 | : <u>%</u> | | | | | | 8 3 | 9 51 | | | 155 | 210 | |
| | 8 | 8 | | 3 | 8 | | 185 | 185 | 3 | 5 | 2 | 145 | 183 | | | | | 33 | 78 | 1 | 8 180 | 6 | 105 | 155 | |
| | 5 | 185 | | Ŕ | 1 8 | | 185 | 19 | 1 | 5 | 85 | 185 | | | | | | 125 | 57 | 16 | 6 21(| - | 175 | 180 | |
| | 1 | 5 | | ŝ | 5 | | 185 | 195 | 1 | 35 | 35 | 160 | | | | | | 215 | X | | 16 | 6 | R | 210 | |
| | 195 | 195 | | Ŕ | 39 | | 5 | 195 | 1 | 8 | 8 | 165 | | | | | | 120 | 62 | | Ŕ | S | 135 | 103 | |
| Number | | | 8 | | | R | | 5 | p | | R | | | 27 | | | 16 | | • | - | | 38 | | | R |
| Nean Length | | | 180 | | | 180 | | - | 11 | | 17 | 2 | | 168 | | | 175 | | - | 78 | | 5 | _ | | 12 |

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| Pt. Cabrillo (0 - 2 | M 11) C | ontinue | 10 | | | | | | | | |
|---------------------|----------|------------|--------|----------|---------|----------|------------|-----|--------|-----------|-----------|
| Location | PC23 | | PC24 | | PC25 | | PC 29 | | PC2: | • | |
| Dete | 17 | | 17 | | 18 | | 16 | | 18 | | |
| Depth (ft) | 15 | | 15 | | 15 | | 12 | | 15 | | |
| Transect Counts | | | | | | | | | | | |
| Red Abalone | | | | | | | | | | | |
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| | 150 | 175 | 205 | 195 | 185 | 180 | | 175 | Ĕ | 180 | |
| | 195 | 21 | 165 | 195 | 175 | 8 | | 120 | 18 | 155 | |
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| | 180 | R | 180 | 185 | 140 | 165 | | 185 | 165 | 175 | |
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| | <u>8</u> | 205 | 150 | 145 | 130 | 195 | | 175 | 175 | 175 | |
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| Red Abalone Lengths | 1 | | | | | | | | |
| | 165 | 155 | | 19 | 5 | | 8 | 180 | |
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| Red Abolone | | | | | | | | | | | | | | | | | | | | |
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| Red Urchin | | | | | | | | | | | | | | | | | | | | |
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| Red Abalone Lengths | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
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| 20-30 | 3 | 3 | 120 | 78 | 3 | 142 | 37 | 8 | 137 |
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| | | | ŝ | | | 191 | | | 133 |
| Red Abelone Lengths | Ĩ | | | | | | | | |
| | 8 | 138 | | 195 | | | R | | |
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| Deoth (ft) | 32 | | | 25 | | | 27 | | ನ | | | 2 | | | 25 | | | R | | | 8 | | |
| Transect Counts | | | | | | | | | | | | | | | | | | | | | | | |
| Red Abelone | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | \$ | | | 158 | | | 16 | | ~ | 3 | | = | 0 | | Ē | | | 83 | | | 211 |
| Red Urchin | | | | | | | | | | | | | | | | | | | | | | | |
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| | 165 | 5 | | 185 | 235 | | 180 | 180 | - | R | 35 | 2 | 5 15 | ÷ | 22 | 211 | | 158 | 170 | | 210 | Ē | |
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| | 195 | 195 | | 155 | 210 | | 180 | 175 | - | 1 23 | 99 | 2 | 9 21 | D | 236 | 13 | | R | 185 | | 175 | 185 | |
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| | B | 21 | | 133 | 210 | | 125 | 2 | - | 85 1 | £ | 8 2 | î 0 | Ē | 6 | 29 | | 203 | 195 | | 175 | 210 | |
| | | <u> </u> | | 51 55 | | | 195 | 185 | ~ ` | <u> </u> | 9 : | 2 | £ 1 | <u>.</u> | 8 1 | 174 | | 210 | | | 51 | 185 | |
| | CC1 | 8 | | 2 | 5 | | | 101 | N | 3 | 01 | 22 | \$ \$ | _ | 8 | 22 | | 220 | | | 210 | 102 | |
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| | 65 | 5 | | 215 | R | | 175 | Ŗ | ~ | 8 | 35 | 16 | 5 | ç | 17 | 302 | | 6 0 | | | 201 | 175 | |
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| Nean Length | | | 168 | | | 180 | | | 186 | | ĩ | 10 | | 19 | | | Ę | | | 140 | | | 00 |
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| Location | PAS | | | PA7 | | | PAII | | |
| Date | 17 | | | 17 | | | 18 | | |
| Depth (ft) | 09 | | | 37 | | | 9 | | |
| Transect Counts Red Abalone | | | | | | | | | |
| | 60 | ٩ | tot | • | Ą | tot | • | 4 | tot |
| 0-10 | 2 | 71 | 2 | 18 | 9 | 28 | 21 | 6 | 40 |
| 10-20 | 6 | 1 | \$ | 37 | 25 | 62 | 16 | 30 | 5 |
| 20-30 | 26 | 16 | 3 | ¢ | 12 | 18 | 27 | 2 | ¢, |
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| | | | 135 | | | 138 | | | 144 |
| Red Urchin | | | | | | | | | |
| | • | 4 | tot | • | £ | 404 | • | - | 404 |
| 0-10 | 8 | Ē | Ę | , , | • • | · • | 5 7 | 5 8 | 19 |
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| | | | R | | | D | | | 146 |
| Red Abalone Lengths | 1 | | | | | | | | |
| | 195 | 195 | | 142 | 232 | | 185 | 5 | |
| | õ | E) | | 200 | 228 | | Ŕ | 185 | |
| | 210 | 175 | | 202 | 219 | | 210 | Ę | |
| | 175 | 240 | | 1 80 | 213 | | 180 | les | |
| | 180 | 240 | | 202 | 302 | | 2 | 105 | |
| | 140 | 240 | | 150 | 198 | | 215 | 210 | |
| | 155 | 185 | | 221 | 10 | | 210 | 230 | |
| | Ŕ | 180 | | 227 | 173 | | 195 | 120 | |
| | 130 | 185 | | 191 | 159 | | 19 | 135 | |
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75 74 74 74 <td>No. No. N</td> <td>Table Table <th< td=""><td>7.13 7.13 7.13 7.14 7.15 7.17 7.15 2.1 2.1 2.3 2.3 2.3 2.3 3.1 1.1 1.6 2.1 1 1 1 1 2.3 2.3 3.1 1.1 1.6 2.1 1 1 1 2 2 4 1.0 1.6 3.1</td><td>7 773 770 771 770 771 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 8 6 10 16 3 0 3 0 2 10 1 1 2 4 1 1 1 2 11 2 4 1 1 1 2 4 0 11 2 4 1 1 1 2 4 0 11 2 4 1 1 1 2 4 0 11 2 4 1 1 1 2 4 0 11 1 2 5 1 1 2 4 12 1</td><td>7 7<td>1 173 176 176 176 177 1 <</td><td>1 1<td>Tit Tit T</td><td>17 <td< td=""><td>17 17 17 16 14 16 16 16 17 16 16 16 16 16 16 16 17 17 17 17 17 17 17 17 17 17 17 16 17 <td< td=""><td>Tit Tit T</td><td>Image: Sector of the sector</td><td>Tit Tit T</td><td></td></td<></td></td<></td></td></td></th<></td> | No. N | Table Table <th< td=""><td>7.13 7.13 7.13 7.14 7.15 7.17 7.15 2.1 2.1 2.3 2.3 2.3 2.3 3.1 1.1 1.6 2.1 1 1 1 1 2.3 2.3 3.1 1.1 1.6 2.1 1 1 1 2 2 4 1.0 1.6 3.1</td><td>7 773 770 771 770 771 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 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APPENDIX B

TRANSECT AND SUMMARY DATA FROM VAN DAMME STATE PARK AND FORT ROSS STATE PARK SEPTEMBER 1971

Explanation of Transect Data Display Format

Station: Arbitrary transect number, no chart reference available.

Transect Counts (30 X 4m): Band transects were 30 X 4 meters.

Red Abalone: Total red abalone count on each transect.

Red Urchin: Total red urchin count on each transect.

Red Abalone Lengths (mm): Maximum shell length in mm of up to first 25 red abalone on each transect.

Number: Total abalone measured on each transect.

Mean Length: Mean shell length of abalone measured on transect.

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| Van Damme, Sept. 1971, | Station | Tr anse ct Counts (30 | Red Abelone | Red Urchin | Red Abolone Length | | | | | | | | Nuther | Nean Length |

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| nean Length | 111 | 184 | 183 | | 145 | 193 | 163 | 183 |

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Ft. Ross. Sept. 1971, (20 - 30 ft)

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| t. Ross, Sept. 1971, (30 - 40 f | F) | | | | | | | | | | | Ft. Ross, Sept. 1971, () 40 ft) | |
|---------------------------------|-----|-----------------------|-----|-----|-----|-----|-----|-----|-----|---|---|----------------------------------|-----|
| tation | - | 2 | • | - | ŝ | • | 2 | •0 | • | 8 | = | Station | - |
| Transect Counts (30 x 4 m) | | | | | | | | | | | | Transect Counts (30 x 4 m) | |
| Red Abelone | - | •0 | Ð | • | • | 1 | 0 | 2 | Ð | • | D | Red Abalone | • |
| Red Unchin | 3 | 165 | 150 | 144 | 230 | 115 | 242 | 150 | 150 | R | Ð | Red Urchin | 163 |
| Red Abelone Lengths (me) | 19 | 163 | | | | 171 | | 8 | | | | Red Abalone Lengths (mi) ' | |
| | 12 | 178 | | | | | | 185 | | | | Natier | • |
| | 157 | 231 18 18 18 | | | | | | | | | | Nean Length | |
| | | 18 | | | | | | | | | | | |
| Nuther New Length | - 8 | 8 | Ð | 0 | 0 | - 5 | 0 | 2 8 | 0 | 0 | 0 | | |
| | | | | | | | | | | | | | |

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Mean number of red abalone/m² (\pm SD) on transects by depth range at Van Damme State Park, September 1971.



Mean number of red abalone/m² (\pm SD) on transects by depth range at Fort Ross State Park, September 1971.



Red abalone size frequencies by depth range (n=number measured, ()=number transects) at Van Damme State Park, September 1971.

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