

**Composition of the *R/V Albatross IV* 'Other Catch' Component
During the NMFS/Industry Survey Trawl Study
Conducted 28 October-6 November, 2002**

Frank Almeida

National Marine Fisheries Service
Northeast Fisheries Science Center
Woods Hole, MA

On deck sampling protocols followed during the NMFS/Industry Survey Trawl Study required that the scientific staff onboard the *R/V Albatross IV* estimate the total volume, to the nearest liter, and identify to the lowest taxon possible, the ‘other catch’ component of Yankee #36 trawl catches. The data from each tow were summarized by sampling area and gear configuration and are presented in Tables 1-3.

Material caught by the trawls included items as diverse as bait bags, plastic, and wood to brittle starfish, polychaetes, and seaweed.

Overall, the ‘optimal’ gear configuration (OPT) caught more species/items, at a higher volume than the ‘worst case scenario’ configuration (WCS). The OPT configuration in Area 1, the northwest corner of CAI had the highest average volume while Area 3, in the northeast corner of CAI had the highest number of species/items per tow. The deep water area east of Cape Cod (Area 3) had on average the fewest number of items and the lowest volumes in both configurations.

| | OPT Configuration | | WCS Configuration | |
|--------------------|-------------------|-------------------------|-------------------|-------------------------|
| | Volume (l) | Number of Species/Items | Volume (l) | Number of Species/Items |
| Area 1: NW CAI | 6.90 | 5.1 | 1.00 | 1.9 |
| Area 2: E Cape Cod | 0.77 | 1.5 | 0.62 | 0.8 |
| Area 3: NE CAI | 6.31 | 5.4 | 1.23 | 2.2 |
| All Areas | 4.47 | 3.9 | 0.94 | 1.6 |

Table 1. Composition of the 'Other Catch' component of *R/V Albatross IV* trawl catches in Area 1, NW CAI during the Survey Trawl Study (Cruise AL02-11). Gear configuration 0 = OPT; 1 = WCS.

| Consec No | Area | Block | Sub-Block | Gear Config | Volume (l) | No. of Items | Anemone | Arctica Shell | Astarte Shell | Barnacle | Brittle Star | Ctenophores | Egg Case Unknown | Hermit Crab | Islandic Scallop Shell | Jellyfish | Polychaete | Razor Clam | Sand Dollar | Scaled Worm | Scallop Shell | Sea Cucumber | Sea Mouse | Seaweed | Shell | Skate Egg Case | Sponge | Starfish | Urchin | Whelk | Rock | Bait Bag | Fishing Line | Gill Net Piece | Plastic | Rope | Wood | | | |
|-----------|------|-------|-----------|-------------|------------|--------------|---------|---------------|---------------|----------|--------------|-------------|------------------|-------------|------------------------|-----------|------------|------------|-------------|-------------|---------------|--------------|-----------|---------|-------|----------------|--------|----------|--------|-------|------|----------|--------------|----------------|---------|------|------|---|---|--|
| 20 | 1 | 16 | 3 | 0 | 2 | 8 | | X | | | | | | X | | | | | | | | | X | | X | X | X | X | X | | | | | | | | | | | |
| 15 | 1 | 14 | 3 | 0 | 2 | 7 | X | | | X | | | | X | | X | | | | | | | | | | | X | X | | | | | | | | | X | | | |
| 21 | 1 | 7 | 1 | 0 | 5 | 6 | X | | | X | | | | X | | X | | | | | | | | | | X | | X | | | | | | | | | | X | | |
| 22 | 1 | 19 | 3 | 0 | 10 | 6 | X | X | | X | | | | | | | | | | X | | | | | | | | X | | | X | | | | | | | | | |
| 17 | 1 | 24 | 3 | 0 | 20 | 5 | X | | | X | | | | | | | | | | | | | | X | | | | X | | | X | | | | | | | | | |
| 18 | 1 | 17 | 1 | 0 | 5 | 5 | X | | | X | | | | | | | | | | | | | | X | | | | X | | | X | | | | | | | | | |
| 19 | 1 | 11 | 1 | 0 | 2 | 5 | | X | | | | | | | | | | | | | | | | X | | | X | X | X | | | X | | | | | | | | |
| 14 | 1 | 23 | 4 | 0 | 20 | 4 | X | X | | | | | | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| 13 | 1 | 13 | 2 | 0 | 2 | 3 | X | | | | | | | | | X | | | | | | | | | | | | X | | | | | | | | | | | | |
| 16 | 1 | 10 | 2 | 0 | 1 | 2 | X | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 1 | 13 | 1 | 1 | 1 | 4 | | | | | X | X | | X | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| 6 | 1 | 24 | 4 | 1 | 1 | 3 | X | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1 | 23 | 2 | 1 | 1 | 2 | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | X | |
| 4 | 1 | 14 | 1 | 1 | 1 | 2 | X | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 9 | 1 | 11 | 4 | 1 | 1 | 2 | | | | | | | | | | | | | | | | | | | X | | X | | | | | | | | | | | | | |
| 10 | 1 | 16 | 2 | 1 | 1 | 2 | | | | X | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| 11 | 1 | 7 | 2 | 1 | 1 | 2 | X | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| 5 | 1 | 10 | 4 | 1 | 1 | 1 | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 1 | 19 | 4 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| 7 | 1 | 17 | 3 | 1 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Average - OPT 6.9 5.1

Average - WCS 1.0 1.9

Table 2. Composition of the 'Other Catch' component of *R/V Albatross IV* trawl catches in Area 2, East of Cape Cod during the Survey Trawl Study (Cruise AL02-11). Gear configuration 0 = OPT; 1 = WCS.

| Consec No | Area | Block | Sub-Block | Gear Config | Volume (l) | No. of Items | Anemone | Arctica Shell | Astarte Shell | Barnacle | Brittle Star | Ctenophores | Egg Case Unknown | Hermit Crab | Islandic Scallop Shell | Jellyfish | Polychaete | Razor Clam | Sand Dollar | Scaled Worm | Scallop Shell | Sea Cucumber | Sea Mouse | Seaweed | Shell | Skate Egg Case | Sponge | Starfish | Urechin | Whelk | Rock | Bait Bag | Fishing Line | Gill Net Piece | Plastic | Rope | Wood | |
|-----------|------|-------|-----------|-------------|------------|--------------|---------|---------------|---------------|----------|--------------|-------------|------------------|-------------|------------------------|-----------|------------|------------|-------------|-------------|---------------|--------------|-----------|---------|-------|----------------|--------|----------|---------|-------|------|----------|--------------|----------------|---------|------|------|---|
| 24 | 2 | 19 | 4 | 0 | 1 | 3 | | X | | | | | | | | | | | | | | | | | X | X | | | | | | | | | | | | |
| 28 | 2 | 8 | 4 | 0 | 1 | 3 | | | | | | | | | | X | | | | | | | | X | | | | | | | | X | | | | | | |
| 34 | 2 | 16 | 2 | 0 | 1 | 3 | | | | | | | | | | | | | | | | | | X | X | | | | | | | | | | | | | X |
| 35 | 2 | 12 | 2 | 0 | 1 | 3 | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | X | | | |
| 23 | 2 | 2 | 1 | 0 | 1 | 2 | | | | | | | | | | X | | | | | | | | | | | | X | | | | | | | | | | |
| 25 | 2 | 17 | 2 | 0 | 2 | 2 | | | | | | | | | | X | | | | | | | | | | | | X | | | | | | | | | | |
| 31 | 2 | 13 | 1 | 0 | 1 | 2 | | | | | | | | | | | | | | | | | | X | | | | | | | | X | | | | | | |
| 26 | 2 | 18 | 1 | 0 | 1 | 1 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 2 | 6 | 4 | 0 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 27 | 2 | 11 | 3 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 2 | 14 | 1 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | 2 | 24 | 2 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | 2 | 22 | 4 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48 | 2 | 12 | 1 | 1 | 1 | 3 | X | | X | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| 37 | 2 | 19 | 1 | 1 | 1 | 2 | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| 38 | 2 | 17 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 2 | 11 | 4 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41 | 2 | 8 | 2 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 43 | 2 | 6 | 2 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 45 | 2 | 24 | 4 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | X | | X | | | | | | | | | | | | |
| 46 | 2 | 22 | 2 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 36 | 2 | 2 | 3 | 1 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | 2 | 18 | 3 | 1 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 42 | 2 | 14 | 4 | 1 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 44 | 2 | 13 | 3 | 1 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 47 | 2 | 16 | 1 | 1 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Average - OPT 0.8 1.5

Average - WCS 0.6 0.8

Table 3. Composition of the 'Other Catch' component of *R/V Albatross IV* trawl catches in Area 3, NE CAI during the Survey Trawl Study (Cruise AL02-11). Gear configuration 0 = OPT; 1 = WCS.

| Consec No | Area | Block | Sub-Block | Gear Config | Volume (l) | No. of Items | Anemone | Arctica Shell | Astarte Shell | Barnacle | Brittle Star | Ctenophores | Egg Case Unknown | Hermit Crab | Islandic Scallop Shell | Jellyfish | Polychaete | Razor Clam | Sand Dollar | Scaled Worm | Scallop Shell | Sea Cucumber | Sea Mouse | Seaweed | Shell | Skate Egg Case | Sponge | Starfish | Urchin | Whelk | Rock | Bait Bag | Fishing Line | Gill Net Piece | Plastic | Rope | Wood | |
|-----------|------|-------|-----------|-------------|------------|--------------|---------|---------------|---------------|----------|--------------|-------------|------------------|-------------|------------------------|-----------|------------|------------|-------------|-------------|---------------|--------------|-----------|---------|-------|----------------|--------|----------|--------|-------|------|----------|--------------|----------------|---------|------|------|--|
| 50 | 3 | 18 | 2 | 0 | 3 | 7 | X | | | | X | | | X | X | | | | | | | | X | X | X | | | | | | | | | | | | | |
| 57 | 3 | 23 | 2 | 0 | 2 | 7 | | | | | X | | | | | | | | X | | | | | X | | X | | X | | X | | | | | | | | |
| 58 | 3 | 10 | 1 | 0 | 3 | 7 | | X | | | X | | | | | | | | | | X | | X | | | | | | | X | | | | | | X | | |
| 49 | 3 | 3 | 3 | 0 | 7 | 6 | | X | | | X | | | | | X | | | | | | | | X | X | | | | X | | | | | | | X | | |
| 53 | 3 | 12 | 2 | 0 | 6 | 6 | | | | | X | | | X | | X | X | | | | | | X | | | | | | X | | | | | | | | | |
| 54 | 3 | 24 | 2 | 0 | 5 | 6 | | | | | X | | | X | | X | | X | | | | | | | | | | | X | | X | | | | | | | |
| 56 | 3 | 7 | 1 | 0 | 3 | 6 | | X | | | X | | | X | | | | | X | | | | | X | | | | | X | | | | | | | | | |
| 55 | 3 | 11 | 1 | 0 | 15 | 5 | | | | | X | | | | | X | | | X | | | | X | | | | | | X | | | | | | | | | |
| 61 | 3 | 4 | 2 | 0 | 5 | 5 | | | | | X | | | X | | X | | | | | | | | | | | | | X | | | | | | X | | | |
| 51 | 3 | 8 | 2 | 0 | 3 | 4 | | X | | | X | | X | | | | | | | | X | | | | | | | | X | | | | | | | | | |
| 59 | 3 | 14 | 4 | 0 | 20 | 4 | | X | | | X | | | X | | | | | | | | | | | | | | | X | | | | | | | | | |
| 60 | 3 | 13 | 3 | 0 | 5 | 4 | | | | | X | | | X | | X | | | | | | | | | | | | | X | | | | | | | | | |
| 52 | 3 | 22 | 2 | 0 | 5 | 3 | | | | | X | | | X | | | | | X | | | | | | | | | | | | | | | | | | | |
| 73 | 3 | 13 | 1 | 1 | 1 | 4 | | | | | X | | | X | | X | | | | | | | | | | | | | | | | | | | | | X | |
| 64 | 3 | 8 | 1 | 1 | 3 | 4 | | | | | X | X | | | | | | | | | | | X | | | | | | X | | | | | | | | | |
| 74 | 3 | 4 | 1 | 1 | 1 | 4 | | | | | X | | | X | | | | | | | | | | X | | | | | X | | | | | | | | | |
| 62 | 3 | 3 | 2 | 1 | 1 | 3 | | X | | | X | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| 63 | 3 | 18 | 3 | 1 | 1 | 3 | | X | | | X | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| 69 | 3 | 7 | 2 | 1 | 1 | 3 | | | | | X | | | | | | | | | | | | | | X | | | X | | | | | | | | | | |
| 65 | 3 | 22 | 1 | 1 | 2 | 2 | | | | | X | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| 70 | 3 | 23 | 3 | 1 | 1 | 2 | | | | | X | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 72 | 3 | 14 | 3 | 1 | 2 | 1 | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| 66 | 3 | 12 | 1 | 1 | 1 | 1 | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 67 | 3 | 24 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 71 | 3 | 10 | 3 | 1 | 1 | 1 | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| 68 | 3 | 11 | 3 | 1 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Average - OPT 6.3 5.4

Average - WCS 1.2 2.2