

**NOAA**  
**FISHERIES**

# 2017 DBO-NCIS Survey

## Preliminary Observations of Ichthyo – and Zooplankton

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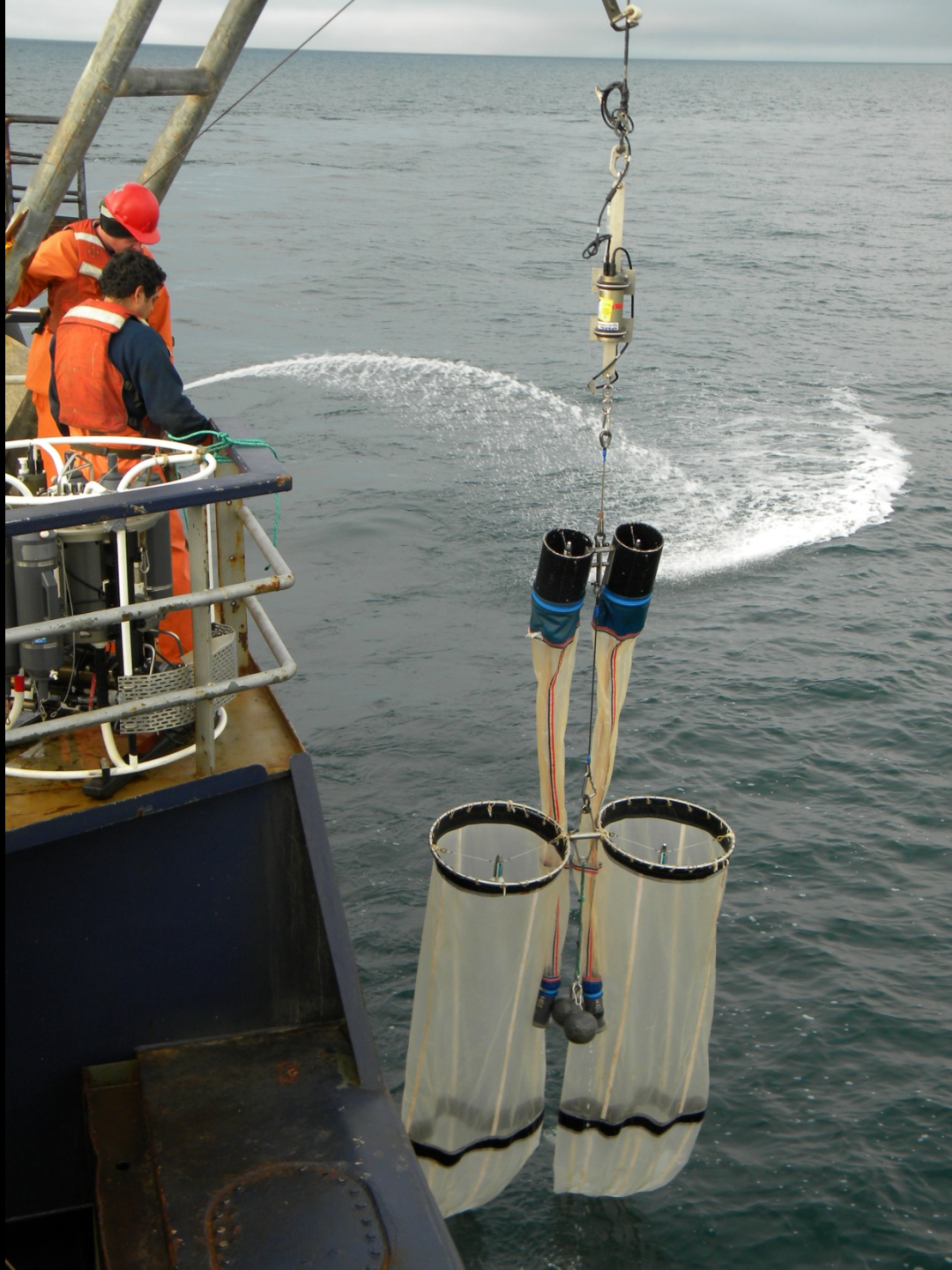


Table 1. Numbers of fish larvae, and juveniles collected in bongo tows on HLY17-2 (DBO-NCIS survey). Bold indicates families (and/or taxa) present in all areas.

| Family         | Scientific Name                 | Common Name                 | Shelf<br>(n=44 stations) | Slope<br>(n=11 stations) | Barrow Canyon<br>(DBO 5)<br>(n=10 stations) |
|----------------|---------------------------------|-----------------------------|--------------------------|--------------------------|---|
| Osmeridae      | <i>Mallotus villosus</i>        | capelin                     | <b>3</b>                 |                          |   |
| <b>Gadidae</b> | <b><i>Boreogadus saida</i></b>  | <b>Arctic cod</b>           | <b>43</b>                | <b>21</b>                | <b>30</b>                                   |
|                | <i>Eleginus gracilis</i>        | saffron cod                 | 1                        |                          |   |
|                | <i>Gadus chalcogrammus</i>      | walleye pollock             |                          |                          | 1   |
| Cottidae       | <i>Gymnocanthus tricuspis</i>   | Arctic staghorn sculpin     | 1                        |                          | 1   |
|                | <i>Myoxocephalus scorpius</i>   | shorthorn sculpin           |                          |                          | 3   |
| Agonidae       | <i>Aspidophoroides olrikii</i>  | Arctic alligatorfish        | 2                        |                          |   |
| Stichaeidae    |                                 | unidentified prickleback    | 2                        |                          |   |
|                | <i>Anisarchus medius</i>        | stout eelblenny             |                          |                          | 2   |
|                | <i>Leptoclinus maculatus</i>    | daubed shanny               | 2                        |                          | 4   |
|                | <i>Lumpenus fabricii</i>        | slender eelblenny           | 3                        |                          | 1   |
| Ammodytidae    | <i>Ammodytes hexapterus</i>     | Arctic sand lance           | 3                        | 7                        |   |
| Pleuronectidae | <i>Hippoglossoides robustus</i> | Bering flounder             | 1                        |                          |   |
|                | <i>Limanda aspera</i>           | yellowfin sole              | 2                        |                          |   |
|                |                                 | Total number of taxa        | 11                       | 2                        | 7   |
|                |                                 | Total number of individuals | 63                       | 28                       | 42  |

# Arctic cod (*Boreogadus saida*)



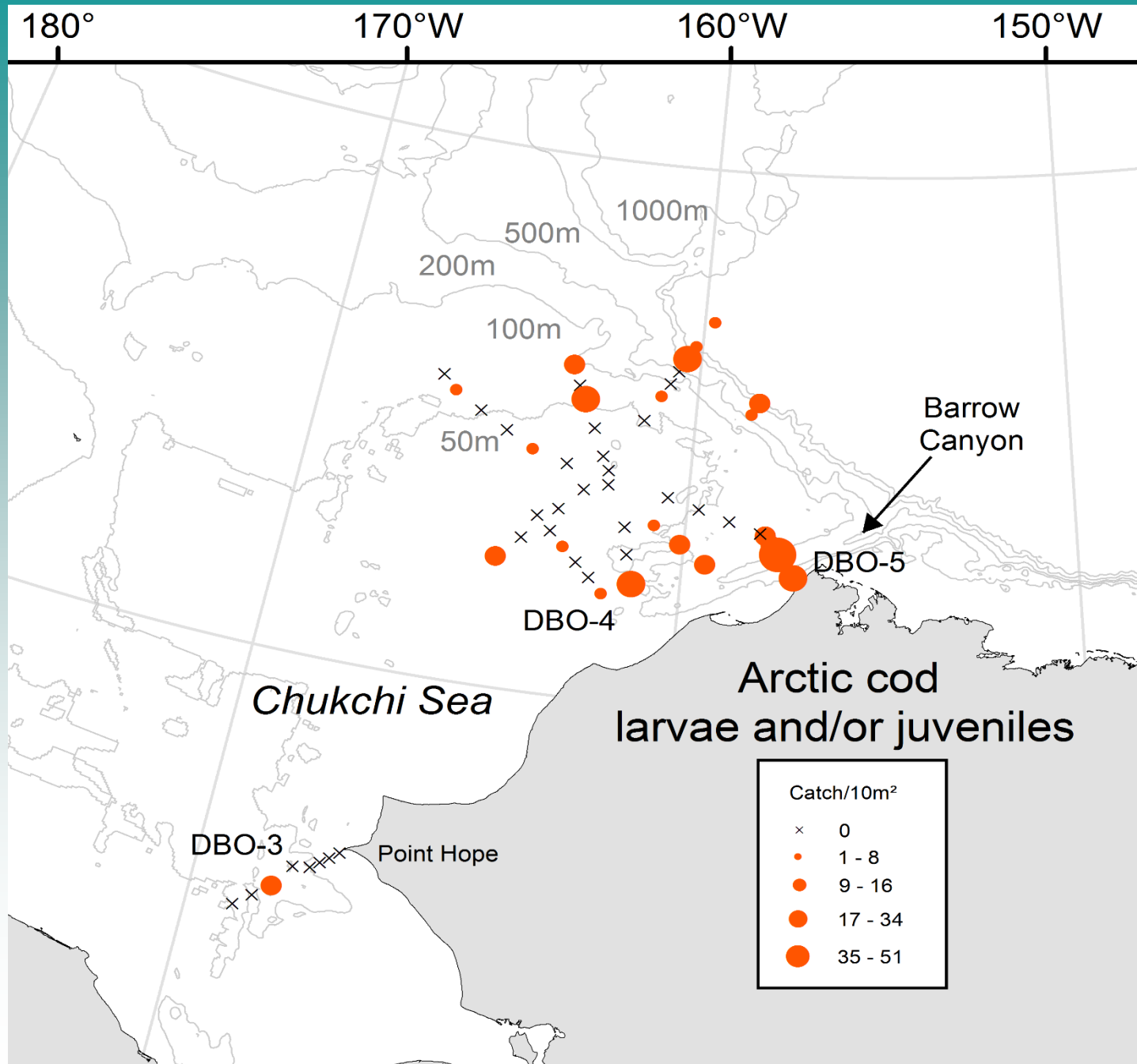
Photo by C. W. Mecklenburg

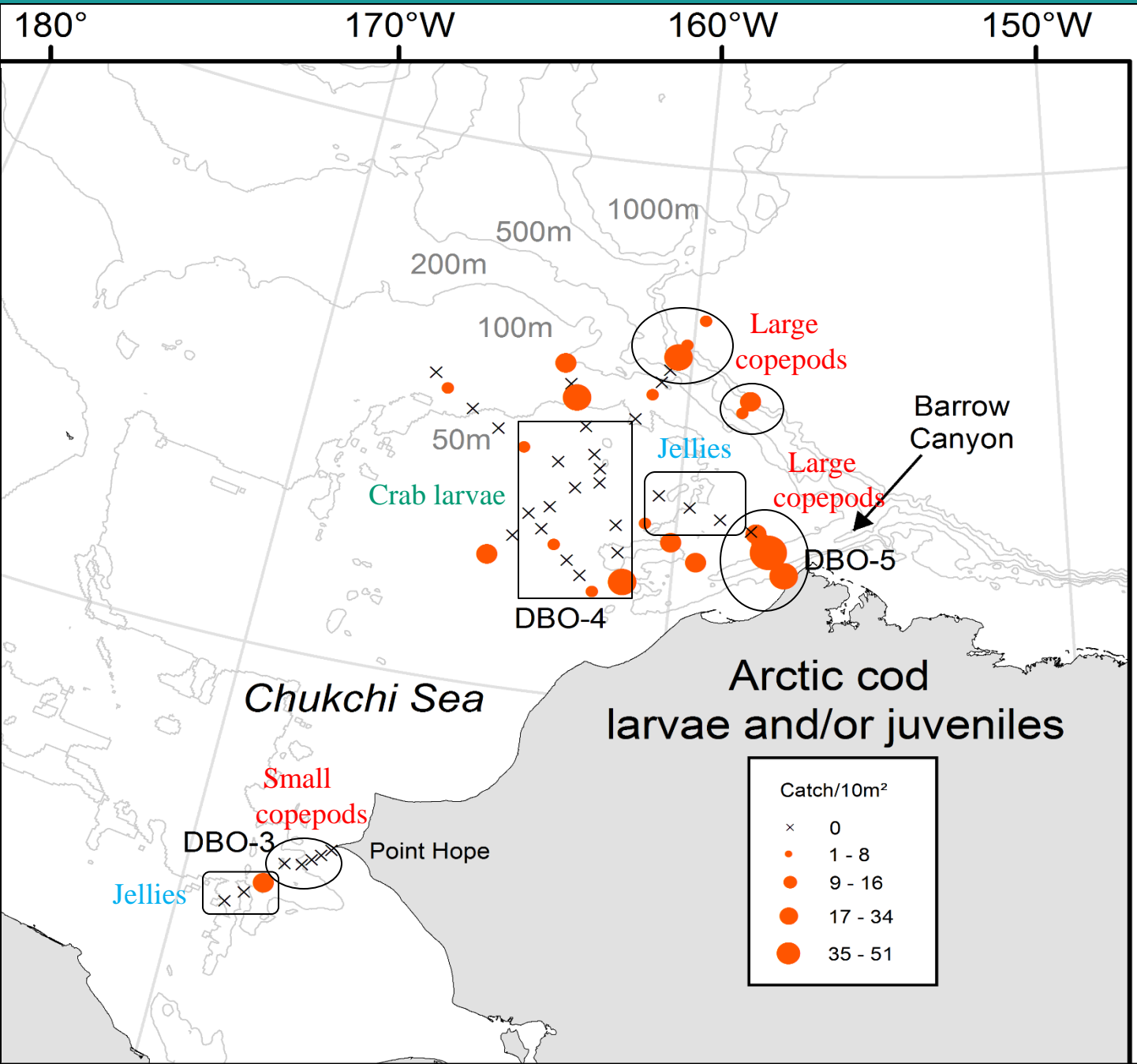
Three size classes (cohorts):

|                | n    |
|----------------|------|
| <25.0 mm       | (8)  |
| 25.0 – 35.0 mm | (35) |
| > 35.0 mm      | (8)  |

How old are these larvae? Spawning and hatch dates?

Specimens frozen for otolith and stable isotope analyses





# Chukchi Sea *Calanus*



Photo by Nissa Ferm