FMP mesopelagic fish Myctophids, frostfish, lancetfish, sternoptychids

**myctophids**: Myctophum lychnobium predominately consumed pelagic molluscs (28 % by number), amphipods (26 %), and copepods (24 %). Symbolophorus evermanni consumed copepods (53 %) and larval fishes (22 %). Centrobranchus andreae consumed molluscs (90 %). The myctophids *Diaphus kapalae* and *Myctophum* (8 to 16 mm SL) consumed zooplankton taxa.

sp.

**lanternfish**:Stomach contents of D. garmani were composed mainly of crustacean zooplankton, such as copepods, euphausiids, decapod larvae and amphipods, and also of appendicularians. Stomach contents of D. chrysorhynchus were composed mainly of crustacean zooplankton, cephalopods and fishes. Fishes, including myctophids, occurred more frequently in *D. chrysorhynchus* stomachs and %*M* of fishes was highest on cruise 3 (Table IV). NBCs (*B*) by number were from 3・99 to 6・35 and those by mass were from 3・41 to 4・99.

**sternoptychids:** 2.8-13.4 mm larvae diet was composed of 22 different prey items, mainly invertebrate eggs, nauplii, calanoid, cyclopoid and poecilostomatoid copepodites, ostracods, cladocerans and amphipods. The prey was comprised of mainly crustaceans; copepods and euphausiids. For small-sized fish ([<]40 mm in standard length: SL), the copepods (mainly Calanus pacificus) was the most important prey accounting for 80.9% by number and 44.3% by wet weight. For large fish ([gtoreq]40 mm SL), euphausiids (mainly Euphausia pacifica) was the most important prey representing 40.3% by number and 80.6% by wet weight of the total diet. The prey size differed significantly with fish size, showing that the diet of M. japonicus shifts toward larger prey with fish growth.

juveniles

|  |  |
| --- | --- |
| **prey item** | **probability of consuming** |
| ZMI Microzooplankton | 0.2 |
| ZME zooplankton | 0.2 |
| ZKL Krill | 0.05 |

adults

|  |  |
| --- | --- |
| **prey item** | **probability of consuming** |
| ZME zooplankton | 0.3 |
| ZKL Krill | 0.3 |
| FMP mesopelagic fish | 0.1 |

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