**Supplementary Table 1.** Mesopelagic and bathypelagic fish species captured in the Perdido region (northwestern Gulf of Mexico). The collected fish were obtained during four cruises carried out between May 2016 and October 2017. The symbols represent the cruise: P1 = Perdido-1, P2 = Perdido-2, P3 = Perdido-3, P4 = Perdido-4 and N = Number of fish caught.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sampling station** | **Sampling depth (m)** | **Latitude Longitude** | **Fish species** | **N** | | | | **Total** | |
| **P1** | **P2** | **P3** | **P4** |
| C4 (I) | 950 | 24°59.502´  96°19.346´ | *Cyclothone* sp. | 0 | 0 | 1 | 5 | 6 | |
| *Cyclothone alba* Brauer, 1906 | 0 | 0 | 1 | 0 | 1 | |
| *Cyclothone pallida* Brauer, 1902 | 0 | 0 | 1 | 0 | 1 | |
| *Cyclothone pseudopallida* Mukhacheva, 1964 | 0 | 0 | 2 | 0 | 2 | |
| C3 | 549 | 25°15.624´  96°21.706´ | *Chauliodus sloani* Bloch & Schneider, 1801 | 0 | 0 | 4 | 0 | 4 | |
| *Manducus maderensis* (Johnson, 1890) | 0 | 0 | 1 | 0 | 1 | |
| *Peristedion greyae* Miller, 1967 | 0 | 0 | 2 | 0 | 2 | |
| *Dibranchus atlanticus* Peters, 1876 | 1 | 0 | 1 | 0 | 2 | |
| B4 | 968 | 25°37.236´  96°03.764´ | *Cyclothone* sp. | 5 | 0 | 4 | 10 | 19 | |
| *Cyclothone braueri* Jespersen & Tåning, 1926 | 0 | 0 | 1 | 0 | 1 | |
| *Cyclothone pallida* Brauer, 1902 | 0 | 0 | 2 | 0 | 2 | |
| *Cyclothone pseudopallida* Mukhacheva, 1964 | 0 | 0 | 1 | 0 | 1 | |
| *Sternoptyx pseudobscura* Baird, 1971 | 1 | 0 | 0 | 0 | 1 | |
| D4(III) | 1019 | 24°37.577´  96°30.335´ | *Cyclothone* sp. | 10 | 8 | 1 | 5 | 24 | |
| *Cyclothone alba* Brauer, 1906 | 0 | 5 | 2 | 0 | 7 | |
| *Cyclothone pallida* Brauer, 1902 | 0 | 0 | 1 | 0 | 1 | |
| *Cyclothone pseudopallida* Mukhacheva, 1964 | 0 | 0 | 1 | 0 | 1 | |
| D5 | 1403 | 24°56.717´  96°02.690´ | *Cyclothone* sp. | 2 | 9 | 0 | 7 | 18 | |
| *Cyclothone alba* Brauer, 1906 | 0 | 6 | 3 | 0 | 9 |
| *Cyclothone braueri* Jespersen & Tåning, 1926 | 0 | 0 | 1 | 0 | 1 |
| *Cyclothone pseudopallida* Mukhacheva, 1964 | 0 | 0 | 1 | 0 | 1 |
| C6 | 2123 | 25°02.419´  95°40.019´ | *Cyclothone* sp. | 0 | 0 | 3 | 0 | 3 |
| *Cyclothone pallida* Brauer, 1902 | 0 | 0 | 1 | 0 | 1 |
| *Cyclothone pseudopallida* Mukhacheva, 1964 | 0 | 0 | 1 | 0 | 1 |
| E7 | 3008 | 24°37.973´  95°37.822´ | *Cyclothone* sp. | 0 | 0 | 1 | 18 | 19 |
| *Cyclothone alba* Brauer, 1906 | 0 | 0 | 0 | 1 | 1 |
| *Cyclothone braueri* Jespersen & Tåning, 1926 | 0 | 0 | 1 | 0 | 1 |
| *Cyclothone pallida* Brauer, 1902 | 0 | 0 | 1 | 0 | 1 |
| *Cyclothone pseudopallida* Mukhacheva, 1964 | 0 | 0 | 2 | 0 | 2 |
| F7 | 3233 | 24°07.688´  95°40.275´ | *Cyclothone alba* Brauer, 1906 | 0 | 0 | 1 | 0 | 1 |
| *Cyclothone braueri* Jespersen & Tåning, 1926 | 0 | 0 | 1 | 0 | 1 |
| *Cyclothone pallida* Brauer, 1902 | 0 | 0 | 1 | 0 | 1 |
| *Cyclothone pseudopallida* Mukhacheva, 1964 | 0 | 0 | 2 | 0 | 2 |
| *Notolychnus valdiviae* (Brauer, 1904) | 0 | 0 | 4 | 0 | 4 |
| *Sternoptyx pseudobscura* Baird, 1971 | 0 | 0 | 1 | 0 | 1 |
| F8 | 3510(P3)  3680(P4) | 24°09.560´  95°15.648´ | *Cyclothone* sp. | 0 | 0 | 21 | 11 | 32 |
| *Cyclothone acclinidens* Garman, 1899 | 0 | 0 | 1 | 0 | 1 |
| *Cyclothone pallida* Brauer, 1902 | 0 | 0 | 3 | 0 | 3 |
| *Cyclothone pseudopallida* Mukhacheva, 1964 | 0 | 0 | 1 | 0 | 1 |
| D3 | 493 | 24°52.171´  96°35.937´ | *Cyclothone* sp. | 0 | 0 | 0 | 2 | 2 |
| B3 | 468 | 25°44.411´  96°15.270´ | *Cyclothone* sp. | 0 | 0 | 0 | 4 | 4 |