These field data were collected in the Scotia Sea (Southern Ocean) by the British Antarctic Survey during three oceanographic research surveys between 2006 and 2009. Myctophid fish samples were collected onboard RRS James Clark Ross using an RMT25 scientific trawl net deployed at discrete depth intervals between 0-1000m. Individual fish body size measurements (SL) are in Standard Length (mm). Median (Net Temp), minimum (Net Temp Min) and maximum (Net Temp Max) temperature measurements (degrees Celsius) were collected over the depth of capture from a net mounted temperature sensor. The latitudinal midpoint of each haul (LAT) and a mean haul depth (Depth m) is also given. For further details, see Collins et al. (2012). Latitudinal and bathymetric patterns in the distribution and abundance of mesopelagic fish in the Scotia Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 59-60, 189-198.

Species codes: Electrona antarctica (ELN), Electrona carlsbergi (ELC), Electrona subspera (ELS), Electrona sp. (ELX), Gymnoscopelus bolini (GYB), Gymnoscopelus fraseri (GYF), Gymnoscopelus hintonoides (GYJ), Gymnoscopelus nicholsi (GYN), Gymnoscopelus opisthopterus (GYO), Gymnoscopelus piabilis (GYP), Gymnoscopelus braueri (GYR), Gymnoscopelus sp. (GYX), Krefftichthys anderssoni (KRA), Nannobrachium achirus (LAC), Lampadena sp. (LAS), Lampanyctus sp. (LAX), Protomyctophum andriashevi (PRA), Protomyctophum tenisoni (PRE), Protomyctophum gemmatum (PRG), Protomyctophum luciferum (PRL), Protomyctophum bolini (PRM), Protomyctophum parallelum (PRP), Protomyctophum sp. (PRX) and Protomyctophum choriodon (PRY).

Gender codes (Sex): Male (M), Female (F) and Juvenile (U, I).

Maturity codes (Stage): Immature (1), Developing Stage (2) and Developed (3).

Cruise codes (Cruise): Oct-Nov 2006 (JR161), Jan-Feb 2008 (JR177) and Mar-Apr 2009 (JR200)

Station codes (Disco Station): Polar Front (PF), North Scotia Sea (NSS), Georgia Basin (GB), Western Scotia Sea (WSS), Mid Scotia Sea (MSS) and South Scotia Sea (SSS).

Depth codes (Depth Zone): 0-200m (1), 200-400m (2), 400-700m (3) and 700-1000m (4).