Migratory and spawning behavior of lumpfish, *Cyclopterus lumpus*, as determined by temperature and depth recording data-storage tags

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In early 2013 the first data storage tagging program was conducted in the lumpfish, *Cyclopterus lumpus*, in Iceland. 85 female and seven male lumpfish, *Cyclopterus lumpus*, were tagged with data-storage tags recording pressure and temperature. 20 females were tagged during the annual Icelandic Groundfish Survey (IGFS) in March 2013. 65 female fish and seven male were tagged in the cod and lumpfish gillnet fishery in March and April 2012. To date, five tags from females tagged on the IGFS and three from the gillnet fishery have been returned. More tag returns are anticipated during the spring 2013. Lumpfish exhibit frequent vertical swimming behavior and were found at a range of depths from the surface to 300m. Some fish tended to occupy the bottom during daytime, but at least one fish was found to spend a significant portion of time at or near the surface during the daytime. The same individual spent several hours without vertical change, during which the tidal height was registered, suggesting that the fish was on the bottom and stationary. The data from these tagging studies provides insight into the migration routes and behavior patterns of lumpfish.

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