



King Scallop Fishery

The king scallop fishery is a dredge fishery prosecuted by, in the main, vessels under 12m. The fishery is subject to gear limitation, a night-time curfew and spatial management measures to protect vulnerable seabed habitats. Scallops accounted for more than half of the shellfish landed in Shetland in 2020 and SSMO logbook data have shown a steady increasing trend in landings from 2000 onwards with a peak of nearly 4.4 million scallops in 2018 (Figure 1).

There has been an overall increase in scallop LPUE since data collection began in 2000 (Figure 1). The mean LPUE shows an overall increasing trend between 2000 and 2020, albeit while fluctuating. The substantial increase of LPUE in 2008 was seen to level off, yet increase, between 2009 to 2020. LPUE is the highest in 2020 with a value of 42 landings/dredge hours, compared to 36 landings/dredge hours in 2008 (Figure 1).

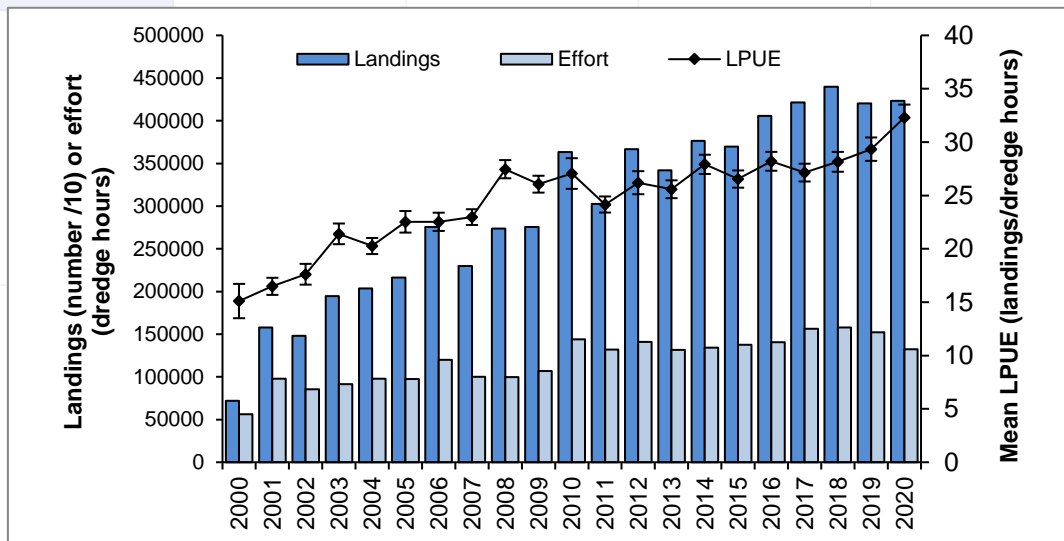


Figure 1 Landings of king scallops (displayed in numbers /10), effort (number of hours by dredge), and mean LPUE (number of scallops caught/hour towed by dredge). LPUE displayed with 95% confidence intervals.

The fishery for scallops is carried out throughout much of the inshore region of Shetland, but with key fishing areas in Yell Sound, around Fetlar and Whalsay, and south along the east coast as far as Bressay (Figures 2-4). Areas of highest LPUE can be seen close to Unst and Yell and on the west side around St Magnus Bay. There are areas of high LPUE off Sumburgh in the South Mainland (Figure 4) but it can be seen that there is relatively low fishing effort in this area (Figure 3). Due to the spatial spread of the fishery, further research is planned in order to better understand regional variation in LPUE.

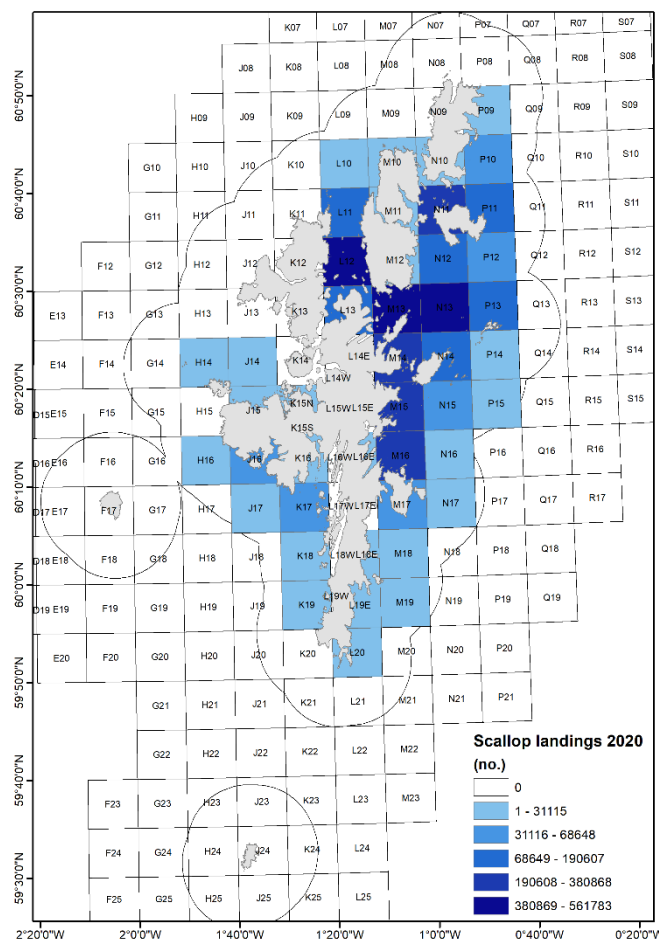


Figure 2 Geographical distribution of scallop landings per SSMO statistical square in 2020.

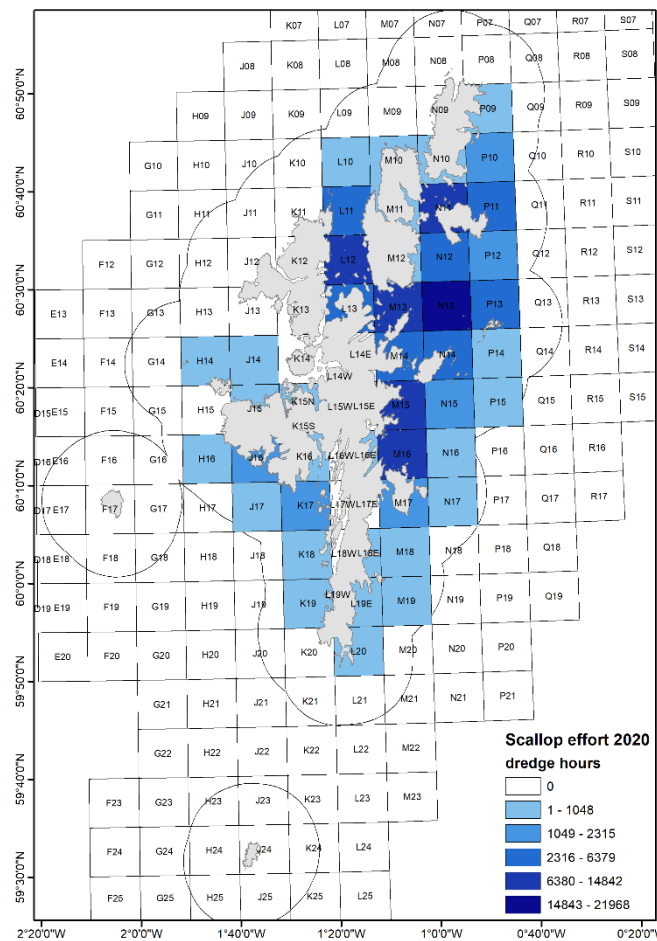


Figure 3 Geographical distribution of scallop effort per SSMO statistical square in 2020.

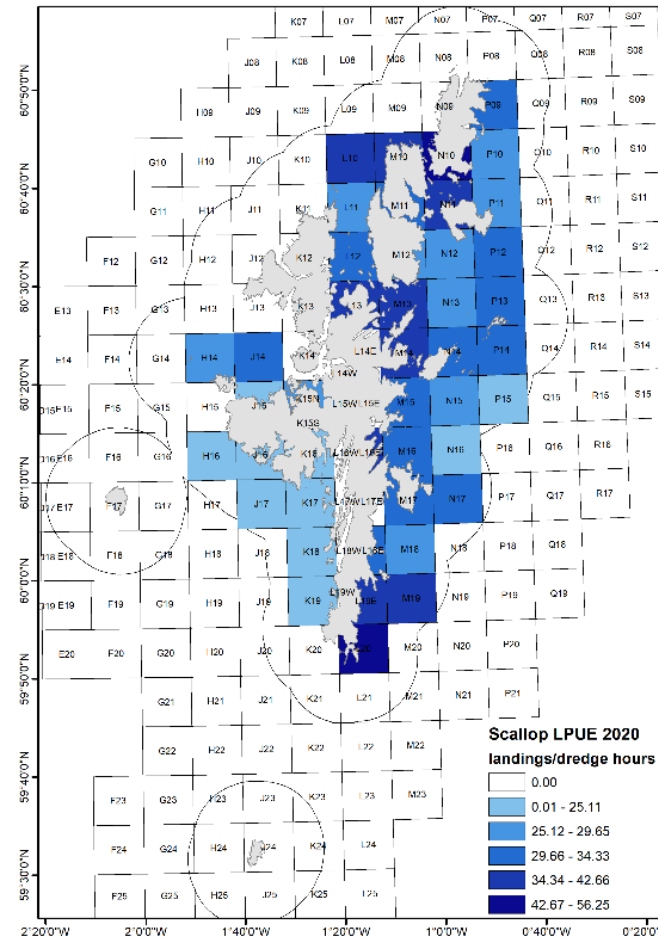


Figure 4 Geographical distribution of scallop LPUE per SSMO statistical square in 2020.