

Abundance and measurement data for uku (*Aprion virescens*) in the main Hawaiian Islands for years 2011–2019

Audrey Rollo

Joint Institute for Marine and Atmospheric Research, University of Hawaii
National Oceanic and Atmospheric Administration, Pacific Islands Fisheries Science Center,
Science Operations Division, Honolulu, Hawaii USA

The attached Excel workbook (2011–2019 BotCam and MOUSS Cruise MaxN, Ranges, and lengths for Uku.xlsx) includes cruise data for years 2011 through 2014 and 2016 through 2019. The workbook consists of three worksheets labeled “MaxN,” “lengths,” and “data heading legend,” which provide uku abundance metrics, measurement values, and category descriptions, respectively. The uku data were separated from a larger bottomfish data set which includes other fish species seen around the main Hawaiian Islands (see references). The uku data were requested by the School of Ocean and Earth Science and Technology (SOEST) at the University of Hawaii, Manoa.

This report contains uku (*Aprion virescens*) summary data from deployments around the main Hawaiian Islands (MHI). Survey data produces relative and absolute abundance and biomass estimates for uku as well as other metadata information. Videos were recorded using the Bottomfish Camera (BotCam) during 2011–2014 and the Modular Optical Underwater Survey System (MOUSS) during 2016–2019. These two autonomous stereo-video baited camera systems provide a non-extractive, fishery-independent method for surveying uku assemblages in their habitat. Fish analysis was conducted by experienced Pacific Islands Fisheries Science Center (PIFSC) staff, reviewing video for 15 minutes (from the moment the camera system reaches the sea floor).

The data in the attached Excel workbook lists uku presence/absence sightings from around the MHI, with associated cruise information (cruise name, grid cell, date, camera system used, deployment file name, time, GPS coordinates, depth, temperature, and seafloor attributes). When available, uku fish lengths (shown on the “lengths” worksheet) and uku abundance metrics (displayed on the “MaxN” worksheet) were also listed. The worksheet “data heading legend” defines all of the data categories listed in the first 2 worksheets.

References:

Pacific Islands Fisheries Science Center. 2020. Bottomfish Fishery-Independent Survey in Hawaii (BFISH)—Experimental Surveys (2011–2015).
<https://www.fisheries.noaa.gov/inport/item/20968>

Pacific Islands Fisheries Science Center. 2020. Bottomfish Fishery-Independent Survey in Hawaii (BFISH). <https://www.fisheries.noaa.gov/inport/item/53762>