

# Alaska Department of Fish and Game

## Division of Commercial Fisheries Professional Paper

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Funk, F. C., and G. J. Sandone. 1990. Migration of eastern Bering Sea herring, as inferred from 1983-1988 joint venture and foreign trawl bycatch rates. Pages 332-341 [In] A compilation of papers presented in the international symposium on Bering Sea fisheries, compiled for interim use by the Alaska Fisheries Center, Seattle, Washington.

**Abstract:** This paper examines the ratio of the weight of the herring catch to the total weight of the groundfish catch in observer records from Pacific cod (*Gadus macrocephalus*) and pollock (*Theragra chalcogramma*) bottom trawl tows, in order to define an index of herring abundance. The index is used to determine the timing and location of herring stocks during their annual migration. This index would be expected to fluctuate with groundfish density as well as with herring density. However, because the herring migration is a relatively distinct phenomenon, the index is sufficient to delineate the general movements of herring stocks during the annual migration. Also, over the 1983 through 1988 period, the abundance of both herring and groundfish stocks was relatively constant.

**Keywords:** Eastern Bering Sea, Alaska, herring, joint venture fisheries, foreign trawl fisheries, bycatch, stock identification

**URL:** [http://docs.lib.noaa.gov/noaa\\_documents/NMFS/AFSC/inter\\_symp\\_bering\\_sea\\_fisheries\\_04-1990.pdf](http://docs.lib.noaa.gov/noaa_documents/NMFS/AFSC/inter_symp_bering_sea_fisheries_04-1990.pdf)

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**Paper No. CFPP.026**