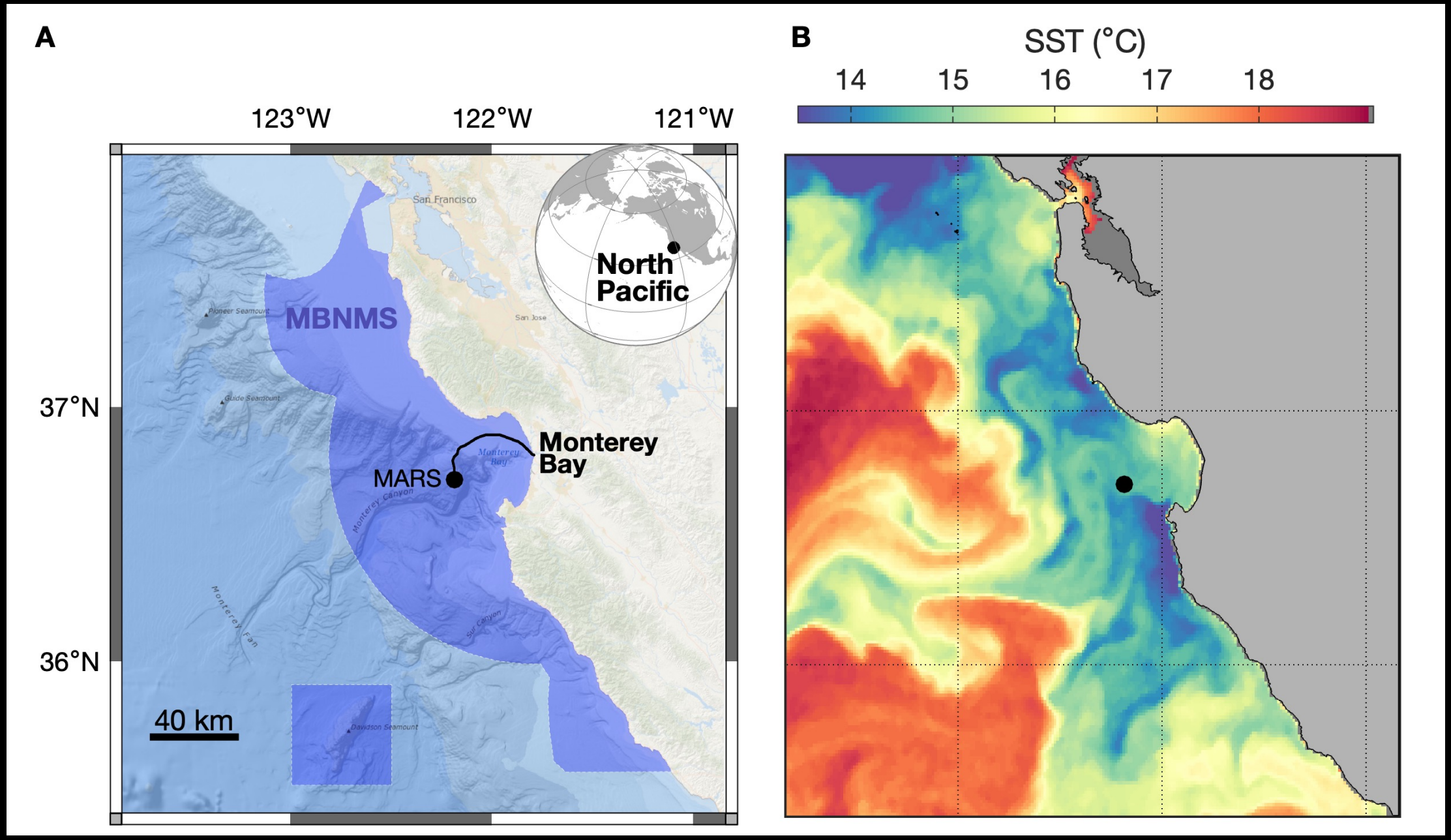
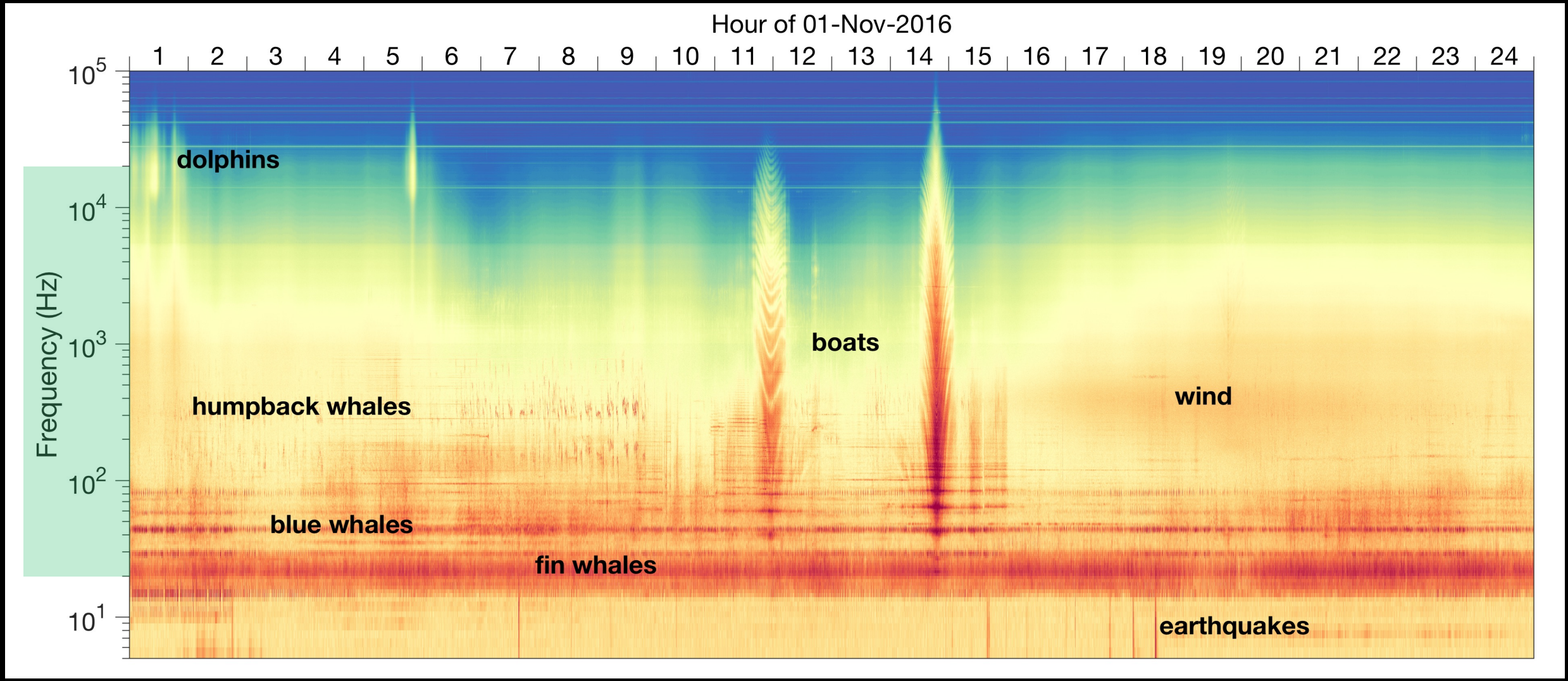
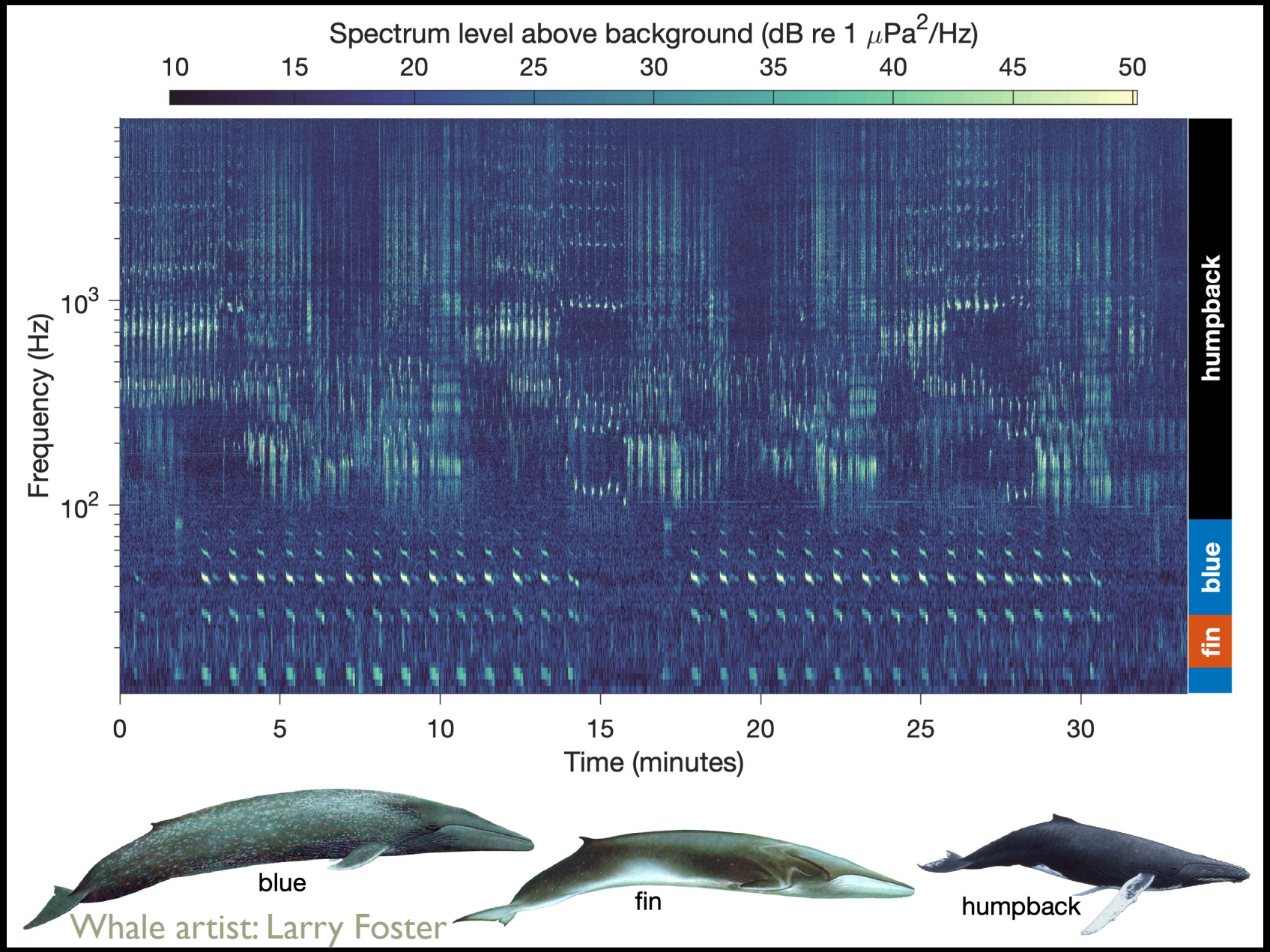
Central California Current Ecosystem



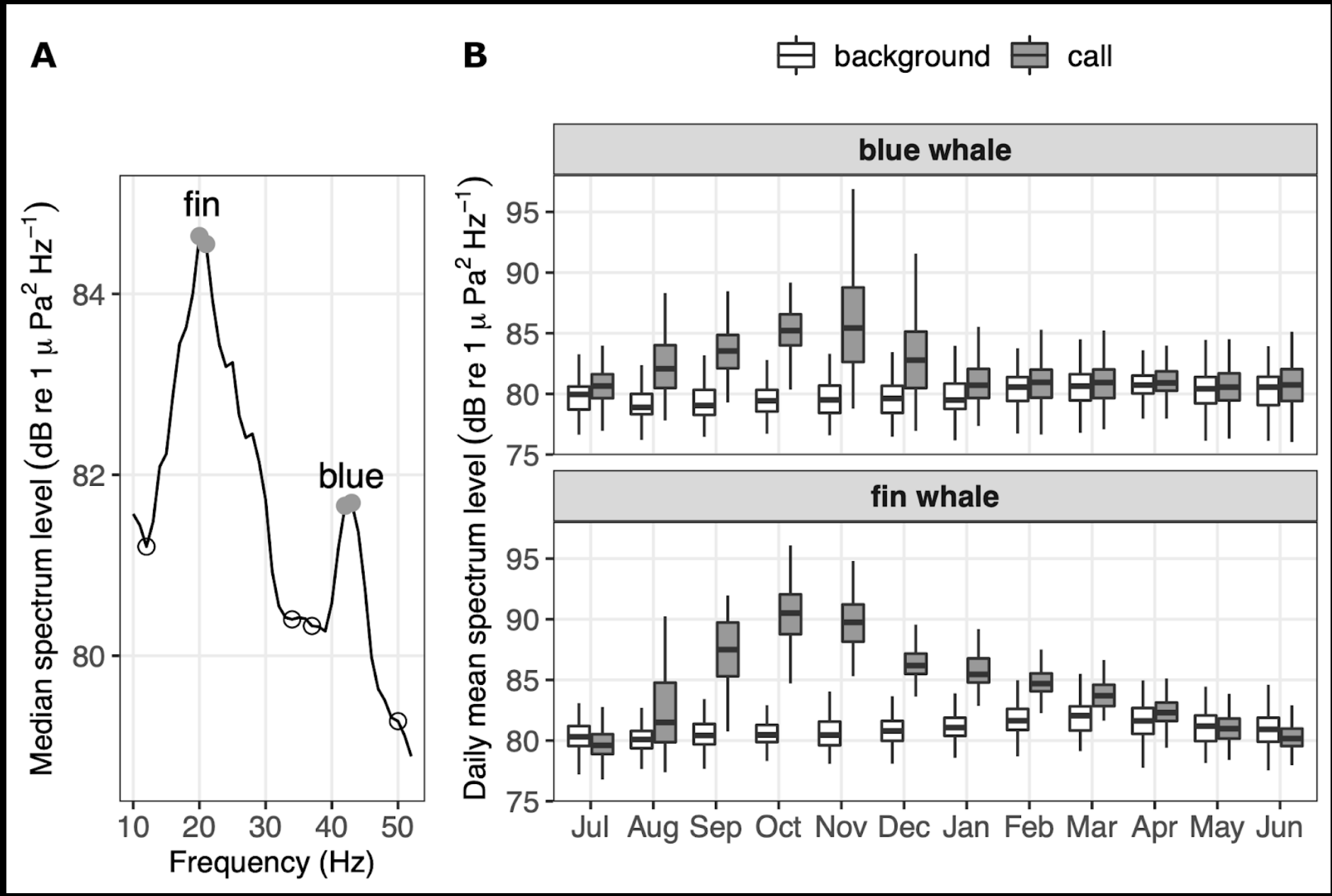
A day in the life of an ocean soundscape



The *Mysticete Symphony* in 3D



Blue and fin whales: signal processing



Humpback whales: machine learning

ORIGINAL RESEARCH article

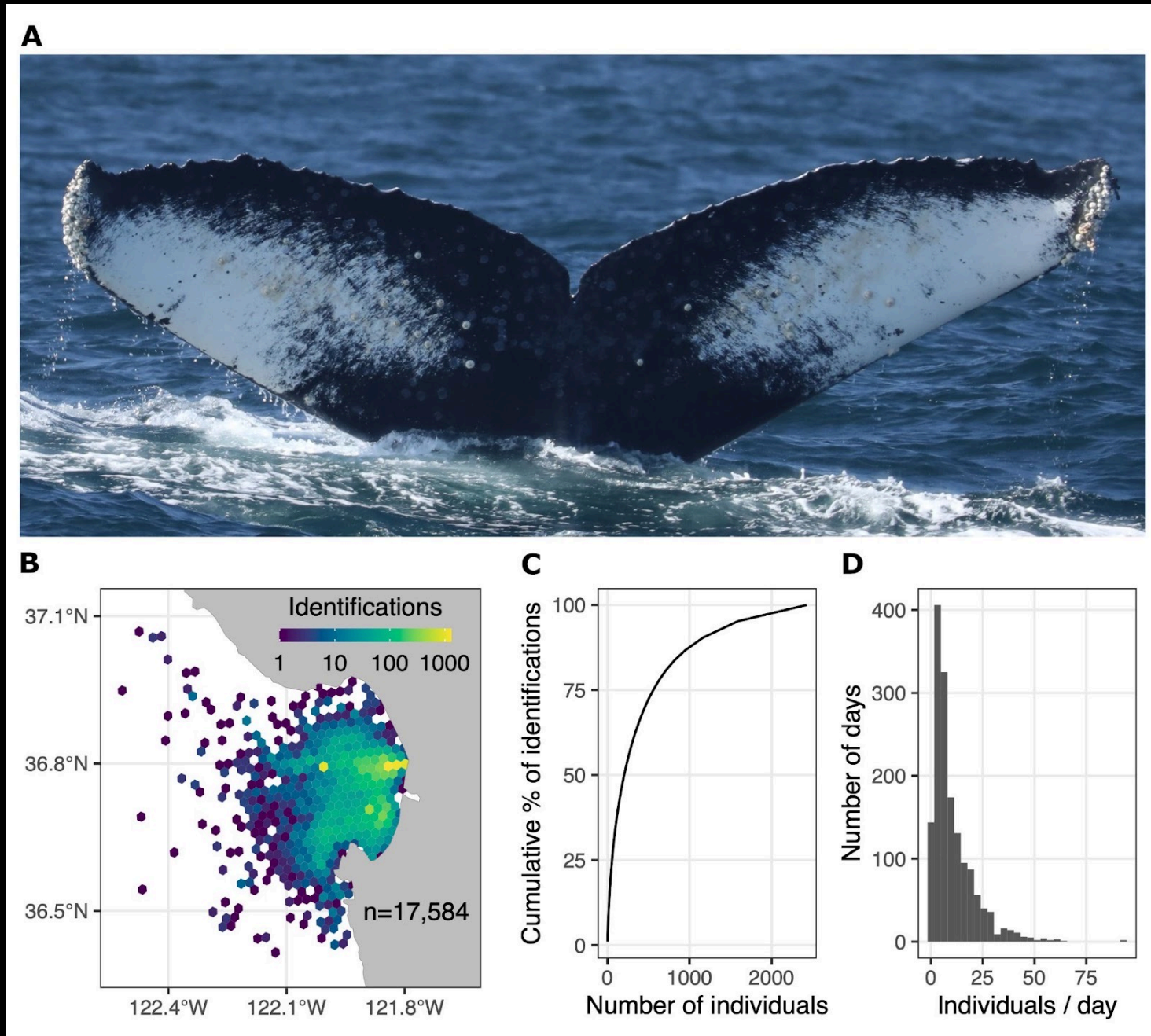
Front. Mar. Sci., 17 March 2021
Sec. Marine Megafauna
https://doi.org/10.3389/fmars.2021.607321

A Convolutional Neural Network for Automated Detection of Humpback Whale Song in a Diverse, Long-Term Passive Acoustic Dataset

Ann N. Allen[1*], Matt Harvey[2], Lauren Harrell[3], Aren Jansen[2],

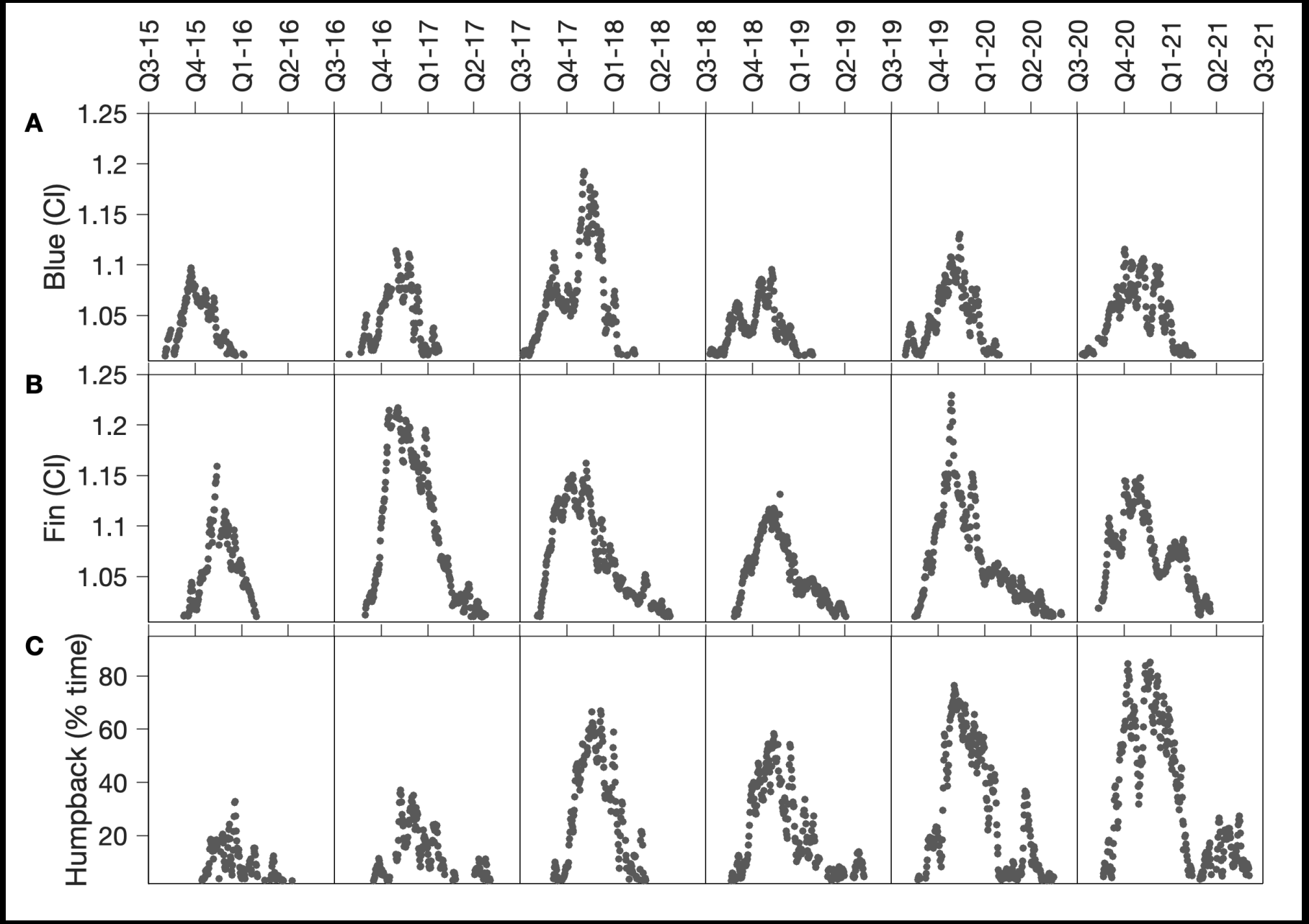
Karlina P. Merkens[1,4], Carrie C. Wall[5,6], Julie Cattiau[2] and Erin M. Oleson[1]

Humpback whales: machine learning

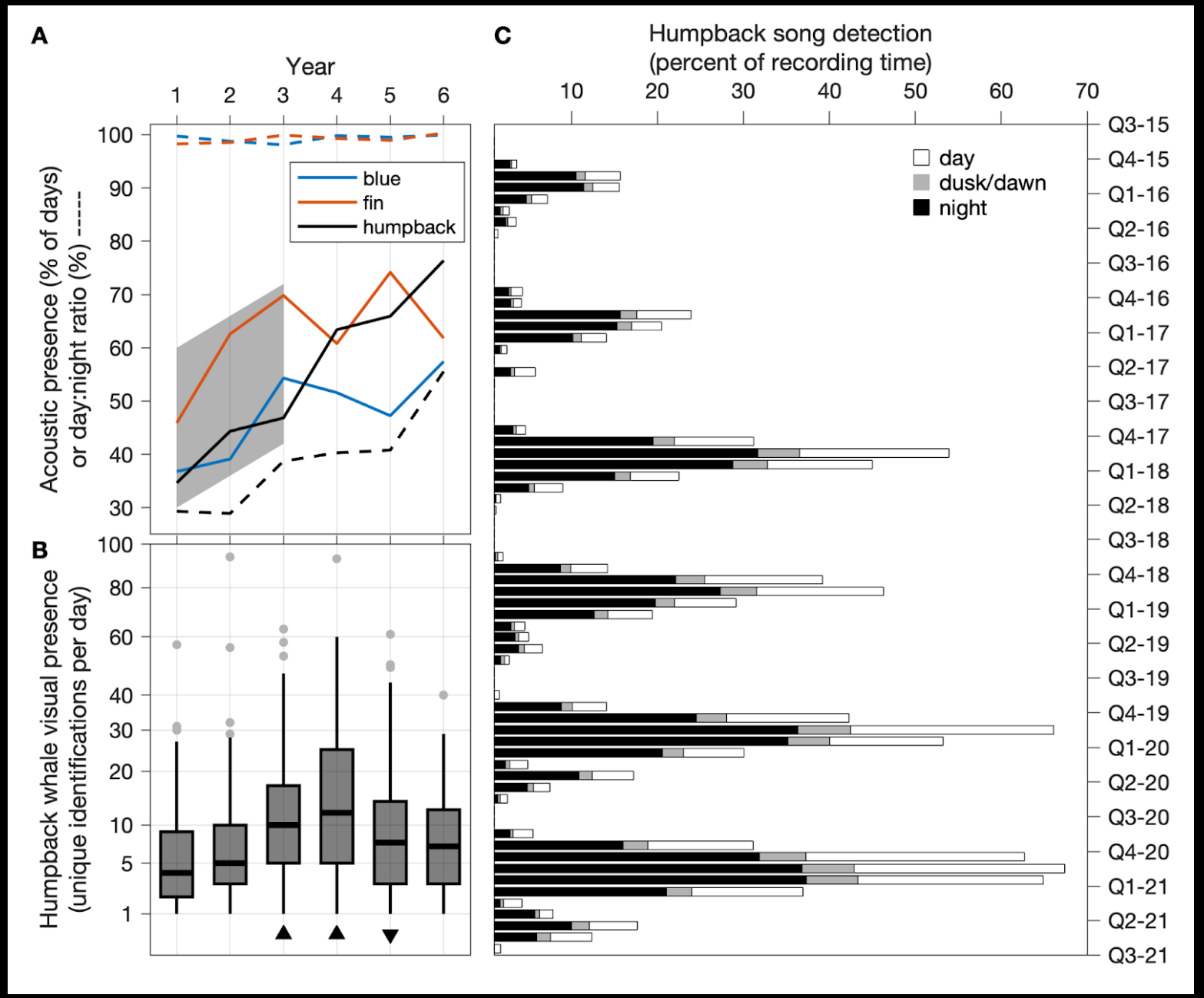


Ted Cheeseman
Happywhale.com

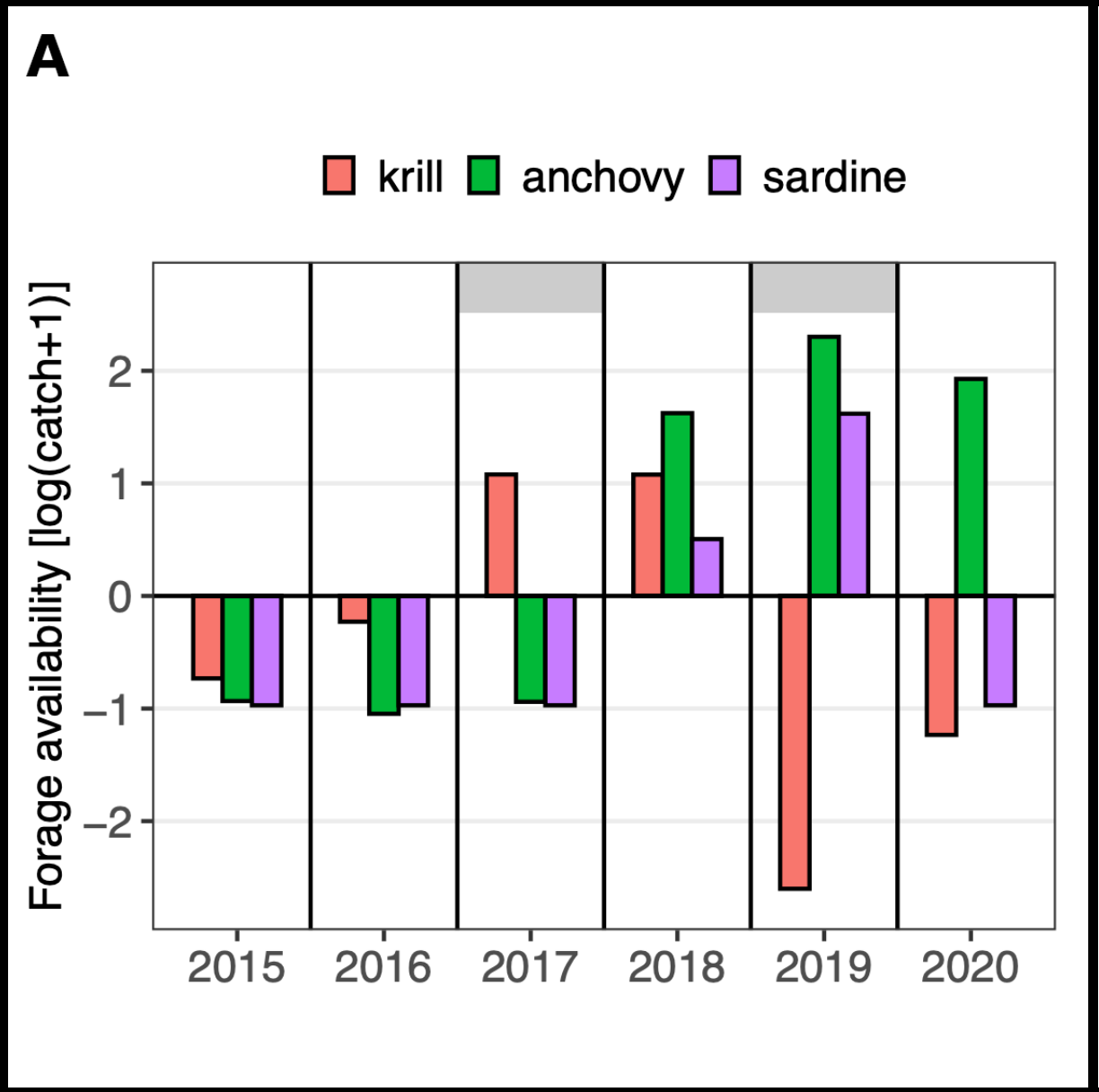
Six years of daily acoustic detection

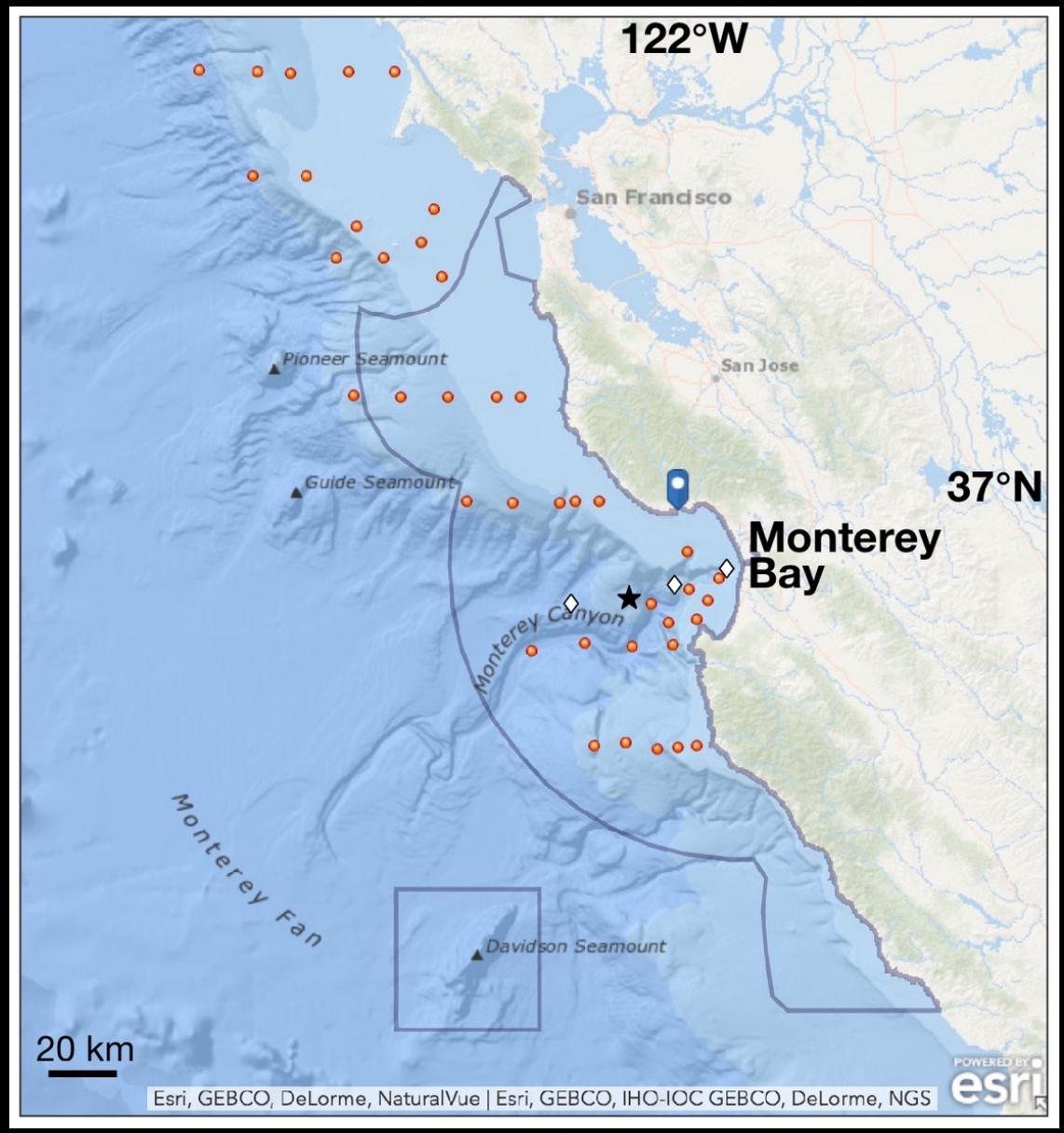


Interannual patterns



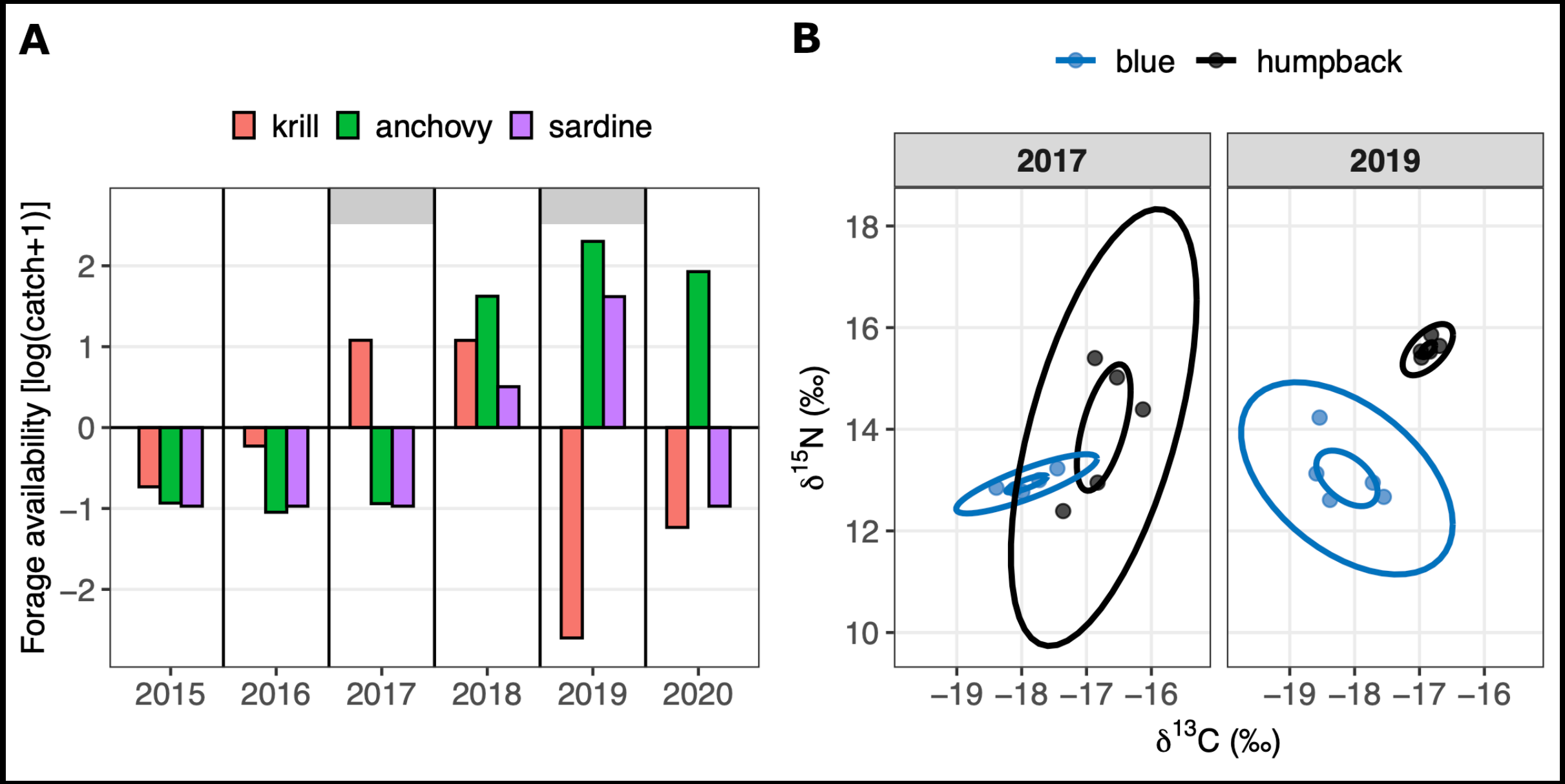
An ecosystem-level view





NOAA California Current Integrated Ecosystem Assessment

An ecosystem-level view



NOAA California Current Integrated Ecosystem Assessment

Access to data and analysis tools

Registry of Open Data on AWS

Pacific Ocean Sound Recordings

acoustics · biodiversity · biology · climate · coastal · deep learning · ecosystems · environmental · machine learning · marine mammals · oceans · open source software

Description

This project offers passive acoustic data (sound recordings) from a deep-ocean environment off central California. Recording began in July 2015, has been nearly continuous, and is ongoing. These resources are intended for applications in ocean soundscape research, education, and the arts.

Update Frequency

daily

License

CC-BY 4.0

Documentation

https://docs.mbari.org/pacific-sound/

Managed By

MBARI
Monterey Bay Aquarium Research Institute

See all datasets managed by Monterey Bay Aquarium Research Institute.

Contact

dcline@mbari.org

How to Cite

Pacific Ocean Sound Recordings was accessed on `DATE` from https://registry.opendata.aws/pacific-sound.

Usage Examples

Tutorials

Resources on AWS

Description
original 256 kHz audio recordings year 2015

Resource type
S3 Bucket

Amazon Resource Name (ARN)
`arn:aws:s3:::pacific-sound-256khz-2015`

AWS Region
`us-west-2`

AWS CLI Access (No AWS account required)
`aws s3 ls --no-sign-request s3://pacific-sound-256khz-2015/`

Description
original 256 kHz audio recordings year 2016

Resource type
S3 Bucket

Amazon Resource Name (ARN)
`arn:aws:s3:::pacific-sound-256khz-2016`

AWS Region
`us-west-2`

AWS CLI Access (No AWS account required)
`aws s3 ls --no-sign-request s3://pacific-sound-256khz-2016/`