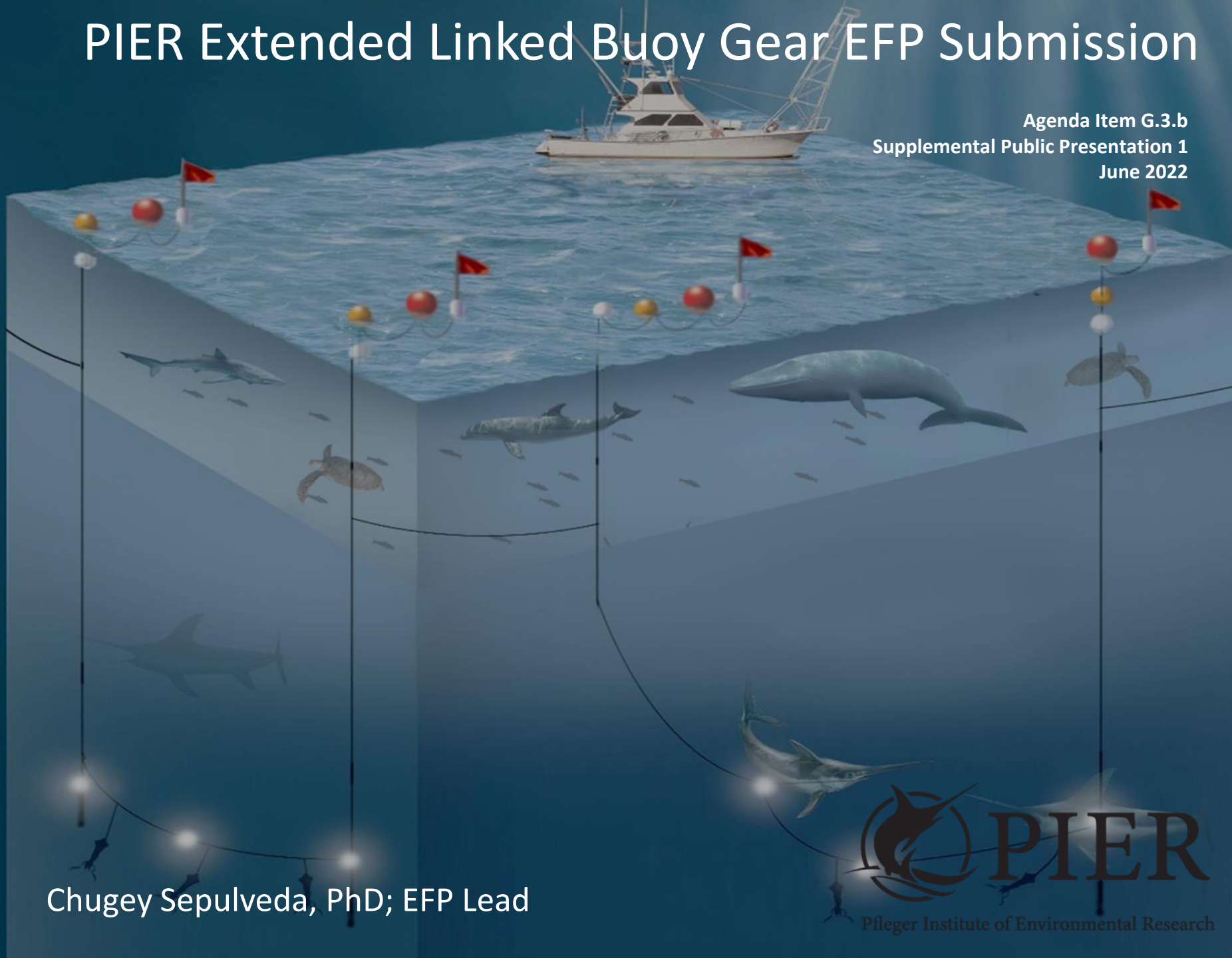
PIER Extended Linked Buoy Gear EFP Submission

Agenda Item G.3.b
Supplemental Public Presentation 1
June 2022



Chugey Sepulveda, PhD; EFP Lead

PIER
Pfleger Institute of Environmental Research

Extended Linked Buoy Gear (XLBG) EFP Submission, 6/12/2022

PIER
Pfleger Institute of Environmental Research

EFP Proposes to test Extended LBG

- 3-5 seasoned cooperative vessels
- Based on the deep-set LBG design
- Includes previous and additional mitigation features developed in consultation with NOAA PRD

Modifications to Original LBG EFP submission

Submission proposes to:

- Increase maximum hook/section count from 3 to 5
- Allow for a range of descending weights from 4 to 8 lbs.
- Increase hook maximum from 30 to 100 hooks/set
- Increase horizontal footprint to <10nm

Rationale for XLBG EFP Submission

PIER
Pfleger Institute of Environmental Research

- LBG has high selectivity for swordfish & low bycatch
- Larger DGN vessels need additional options
- Larger vessels and offshore fishing requires more catch to attain economic viability
- Most of California SF waters remain unfished
- Proposed action area is outside of DSBG effort footprint

- Seasoned vessels with decades of experience can help develop, test and seed subsequent west coast fishery development efforts.

XLBG Proposed Mitigation Measures

PIER
Pfleger Institute of Environmental Research

This proposal has considered potential impacts to protected and sensitive species and has included multiple bycatch mitigation features to help reduce the likelihood and severity of a potential interaction.

Daytime fishing and depth segregation

Strike indication and serviceability

Vertical taught lines (heavy descending weights)

streamlined surface gear

Hydraulic Line-setter

Circle Hooks

Satellite gear tracking

Distance from shore

Mammal hotspot avoidance

Monofilament marking

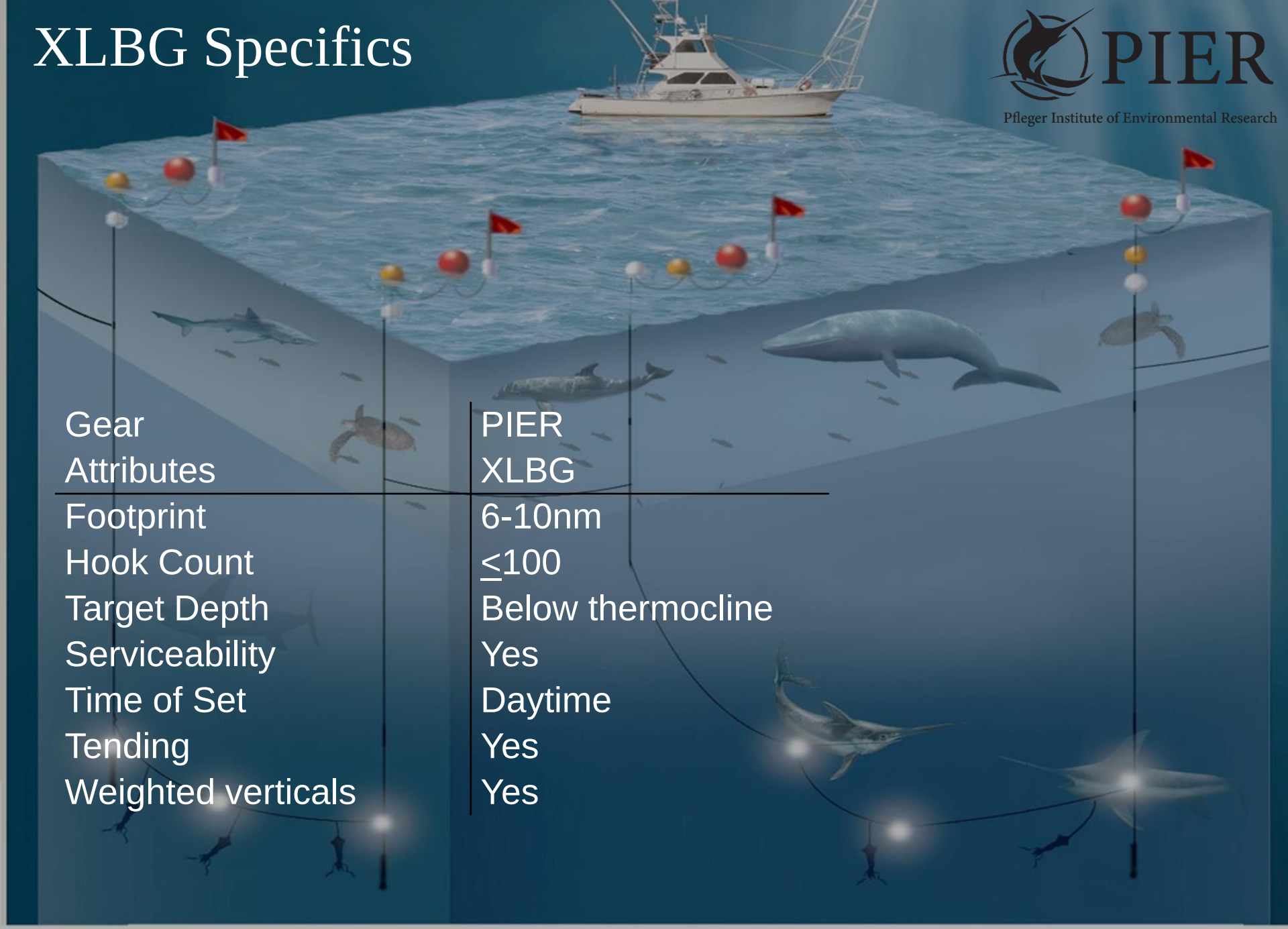
Electronic Monitoring

XLBG Footprint Justification

Pfleger Institute of Environmental Research

- LBG catch is on average ~.2 SF/section
- Larger vessels need on average 3-5 pieces/day
- Proposed EFP increases maximum footprint from 5nm to 10nm
- Settled gear length ~7-8nm

XLBG Specifics



Pfleger Institute of Environmental Research

Gear Attributes	PIER XLBG
Footprint	6-10nm
Hook Count	≤100
Target Depth	Below thermocline
Serviceability	Yes
Time of Set	Daytime
Tending	Yes
Weighted verticals	Yes

How will Strike Detection be Used?

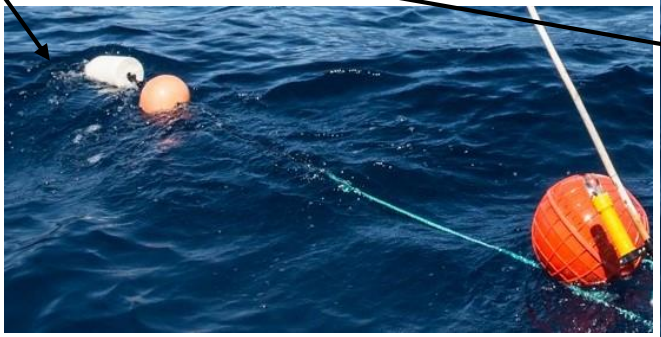
Strike buoys help notify that something is on the line

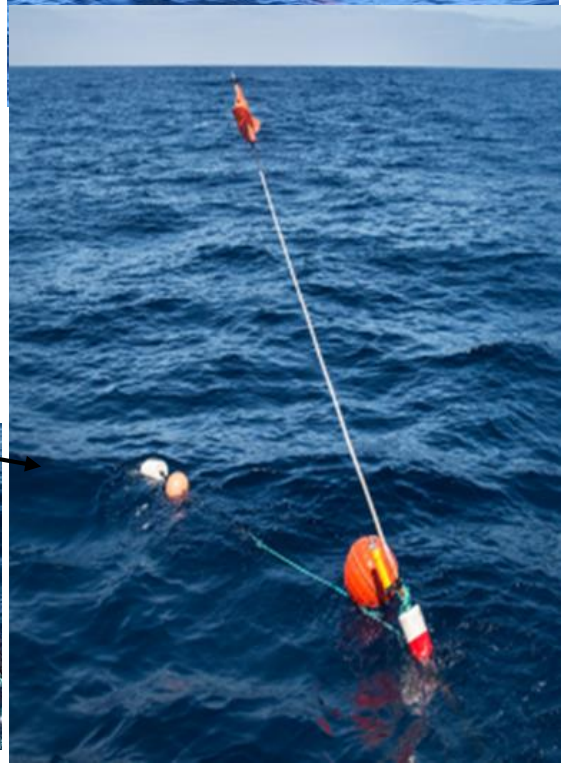
Gear will be tended 2-3 times a day (comparable to a short soak)

Main objective is to mitigate any potential mammal interactions

Upon detection of a strike the section can be serviced and re-deployed

Three Buoys Visible
Means that Something is on
The line





PIER
Pfleger Institute of Environmental Research

Thank You For Your Consideration

PIER

Pfleger Institute of Environmental Research