

**INTER-AMERICAN TROPICAL TUNA
COMMISSION
SCIENTIFIC ADVISORY COMMITTEE
FIFTH MEETING**

**La Jolla, California (USA)
12-16 May 2014**

DOCUMENT SAC-05-03B

**UPDATED SUMMARY REGARDING HAMMERHEAD SHARKS CAUGHT IN
THE TUNA FISHERIES IN THE EASTERN PACIFIC OCEAN**

Marlon Román-Verdesoto And Martin Hall

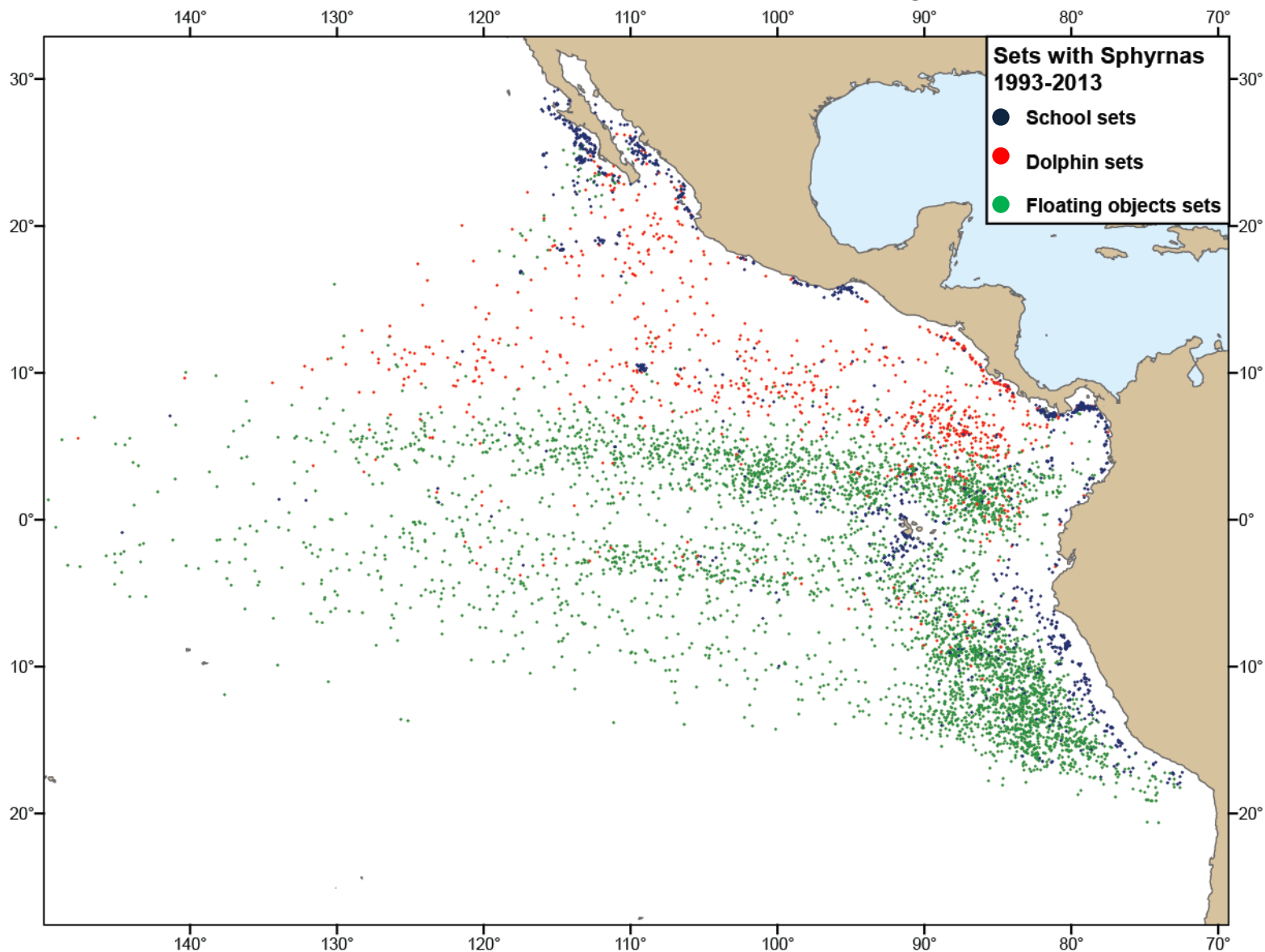
Outline

- Status of information on *Sphyrna* collected in the EPO by different tuna fisheries
- Some details on the evolution of the data collecting of *Sphyrna* in the tuna purse seine fishery in the last two decades

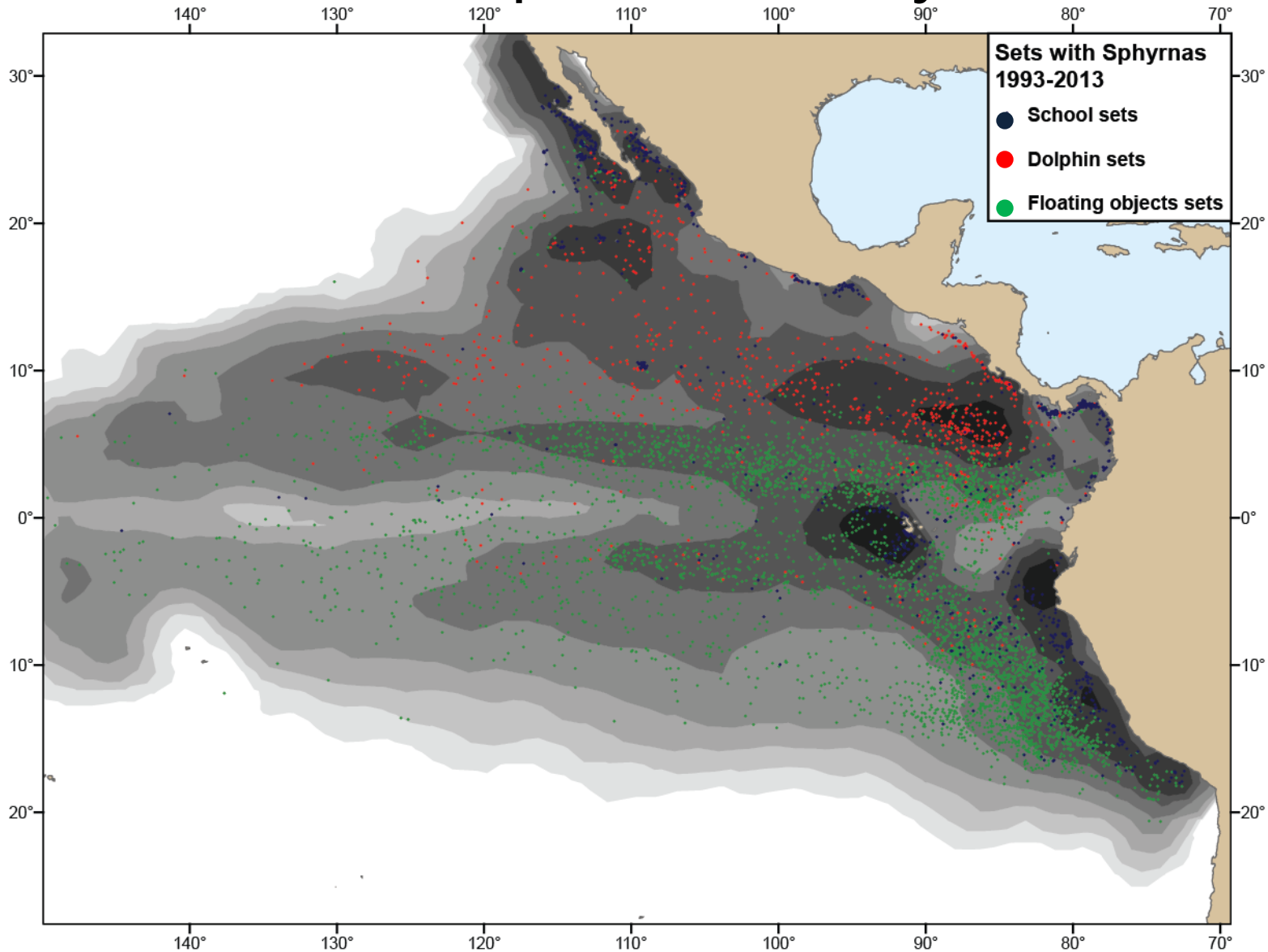
Captures of *Sphyrna* in different tuna fisheries

- Artisanal fisheries
 - Capture data not detailed enough for statistical analyses.
 - Pupping grounds may be coastal (Wakabayashi and Iwamoto 1981; IOTC 2007).
 - Adults and juveniles are targeted by small-scale coastal artisanal fisheries in the EPO, using different gear types (Hall and Roman 2013).
- Industrial LL fisheries
 - Scarce information.
 - ~ 1% among shark captures in Chinese BET LL fishery (Xiaojie et al. 2006).
 - Zero capture in Japanese BET LL fishery (Okamoto and Bayliff 2003)
- Purse-seine fisheries
 - Data collected by observers since 1993. Total length recorded by size category.
 - 2005: Identifications down to species. Total length recorded at nearest centimeter. Sex was recorded.

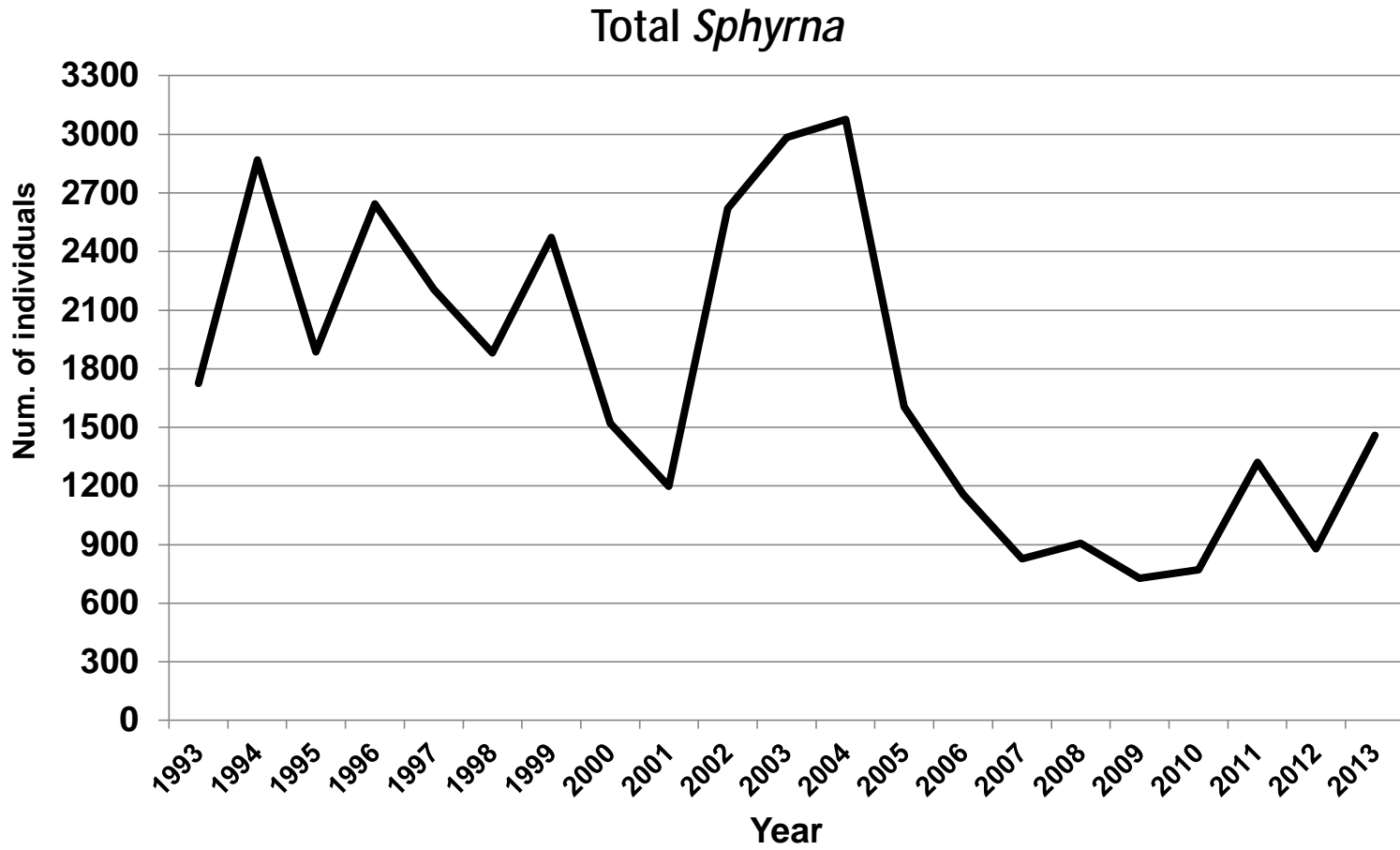
Spatial distribution of sets with *Sphyrna* captured by the tuna purse-seine fishery



Spatial distribution of sets with *Sphyrna* captured by the tuna purse-seine fishery

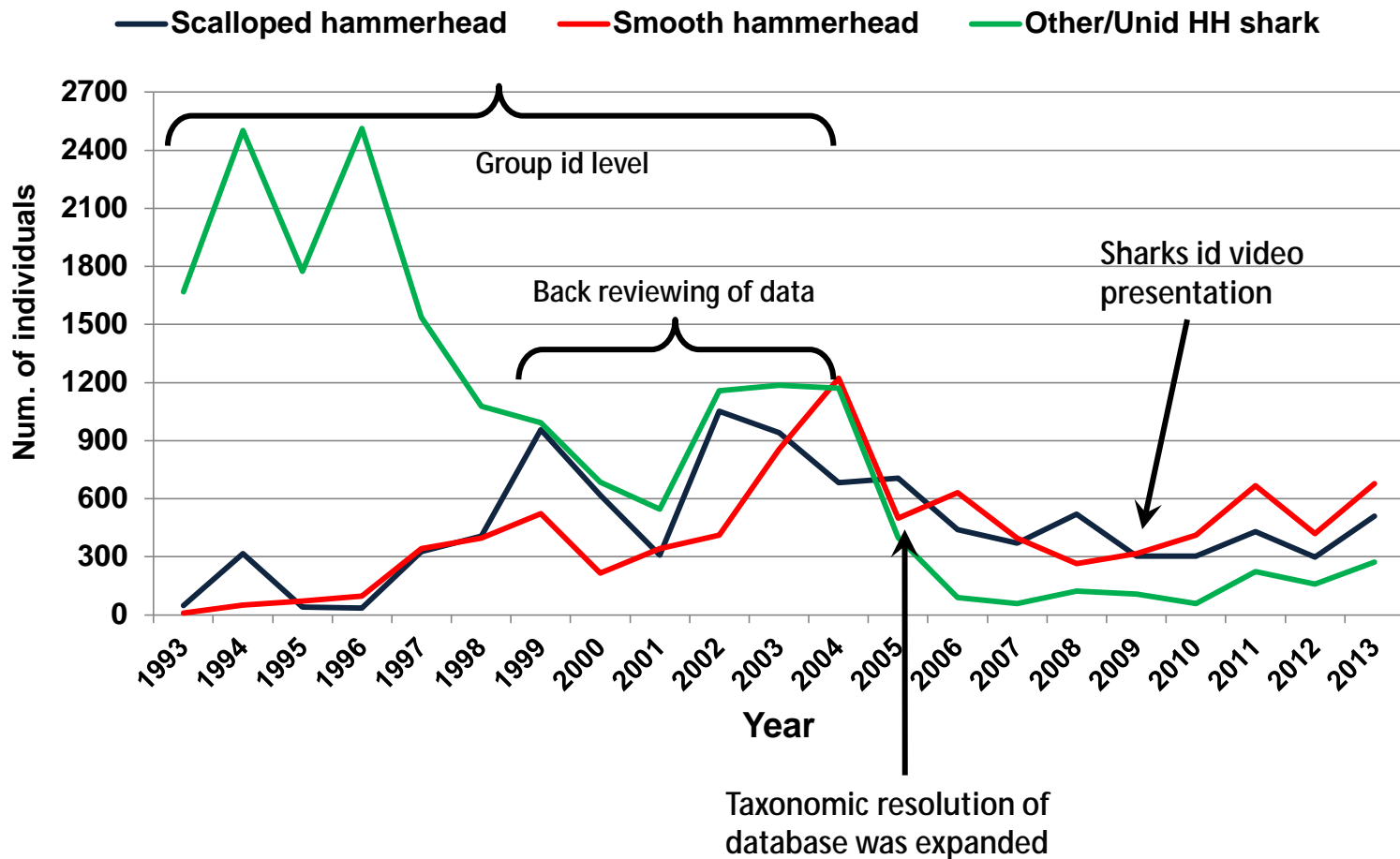


Hammerhead capture data in the tuna purse-seine fishery (set types combined)



Hammerhead capture data in the tuna purse-seine fishery (set types combined)

Smooth hammerhead (*S. zygaena*) and Scalloped hammerhead (*S. lewini*) are the predominant species



Conclusions

- The tuna purse seine observer database records *Sphyrna* captures data since 1993. By 2005 data is recorded down to species.
- *S. zygaena* and *S. lewini* are the predominant *Sphyrna* species captured by the tuna purse seine fishery
- Captures of *Sphyrna* in the industrial longline fishery targeting bigeye tuna may be low
- *Sphyrna* capture data, specially the artisanal fishery may be necessary to better understand the potential impact to these populations

**INTER-AMERICAN TROPICAL TUNA
COMMISSION
SCIENTIFIC ADVISORY COMMITTEE
FIFTH MEETING**

**La Jolla, California (USA)
12-16 May 2014**

DOCUMENT SAC-05-03B

**UPDATED SUMMARY REGARDING HAMMERHEAD SHARKS CAUGHT IN
THE TUNA FISHERIES IN THE EASTERN PACIFIC OCEAN**

Marlon Román-Verdesoto And Martin Hall