

Vaquita conservation efforts

WWF - Mexico

23/03/2017



Population

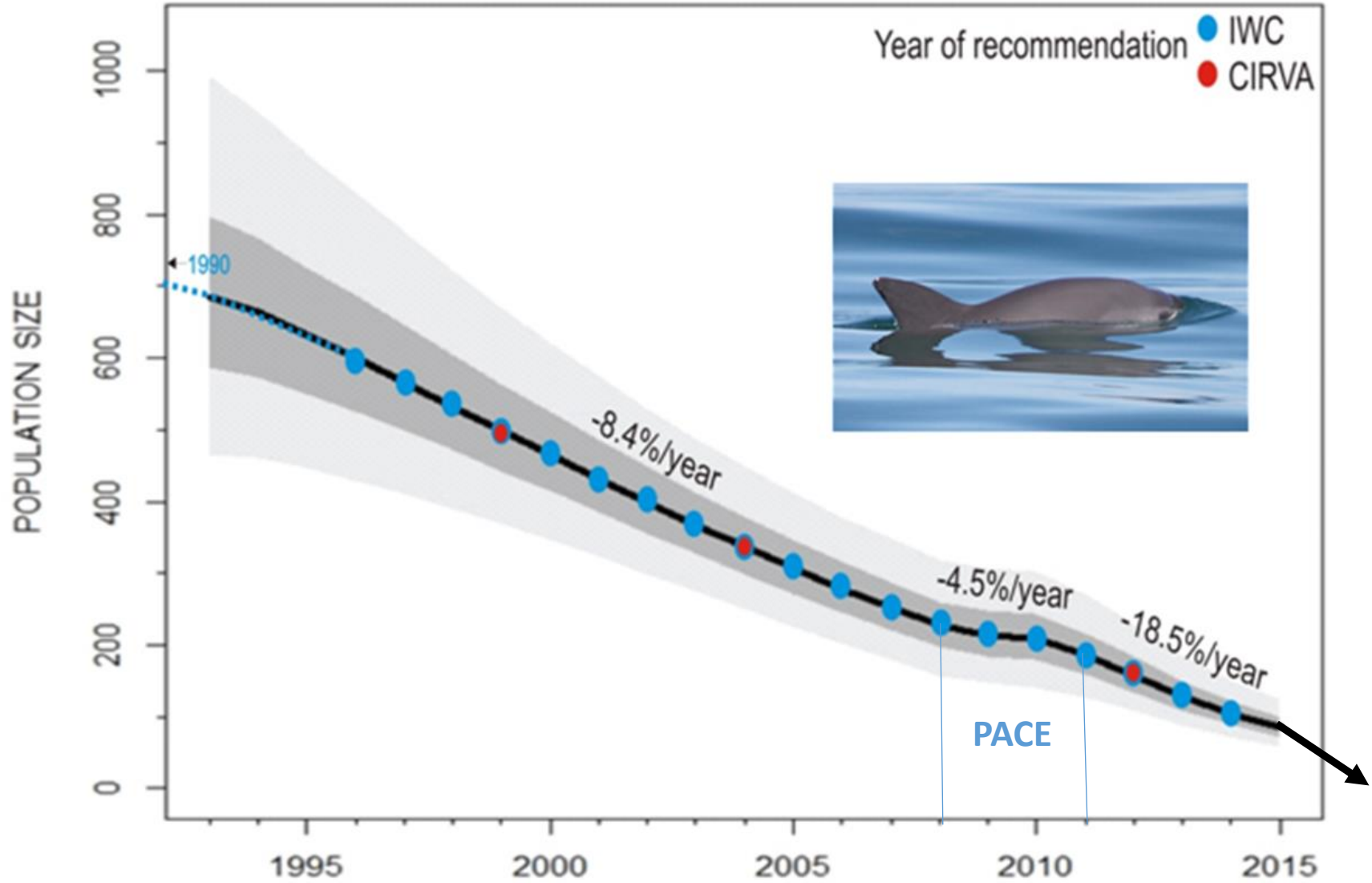
PACE

Compliance

Ban

Discussion

vaquita population trajectory





VAQUITA FISHING EFFORT

Phocoena sinus

MEASURE OF SUCCESS



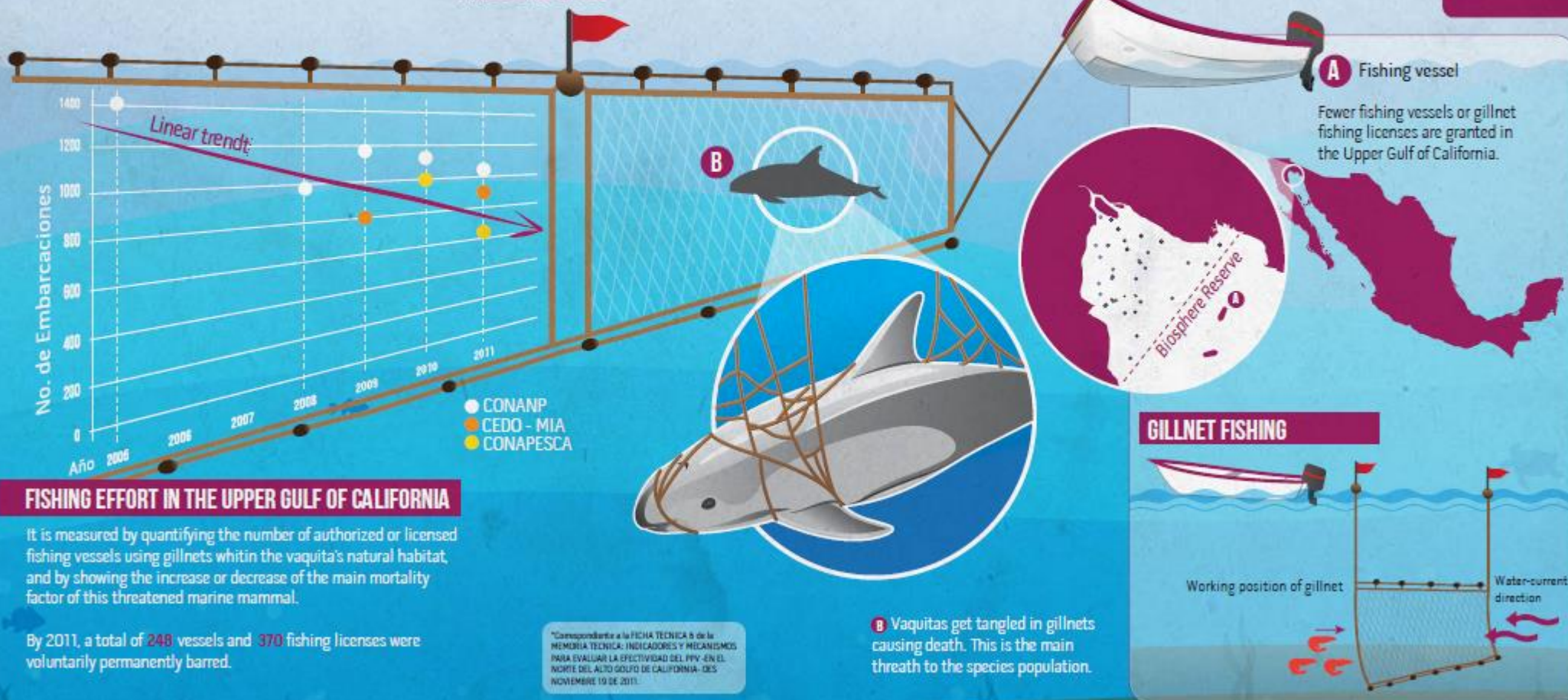
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VAQUITA BUY-OUT WITH ALTERNATIVE LIVELIHOODS

Phocoena sinus

MEASURE OF SUCCESS



Population

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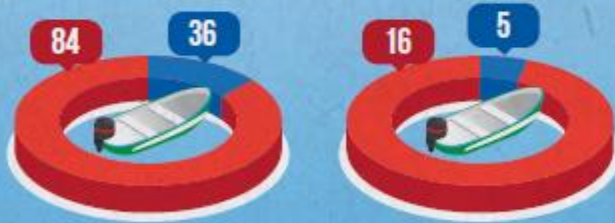
WHAT DOES BUY-OUT WITH ALTERNATIVE LIVELIHOODS MEANS?

It is the definite barring or voluntary retirement of one or more fishing licenses along with the fishing gear **(A)**, in exchange for a cash grant that must be invested in infrastructure, services and raw materials needed to develop a new economic activity different than fishing **(B)**.

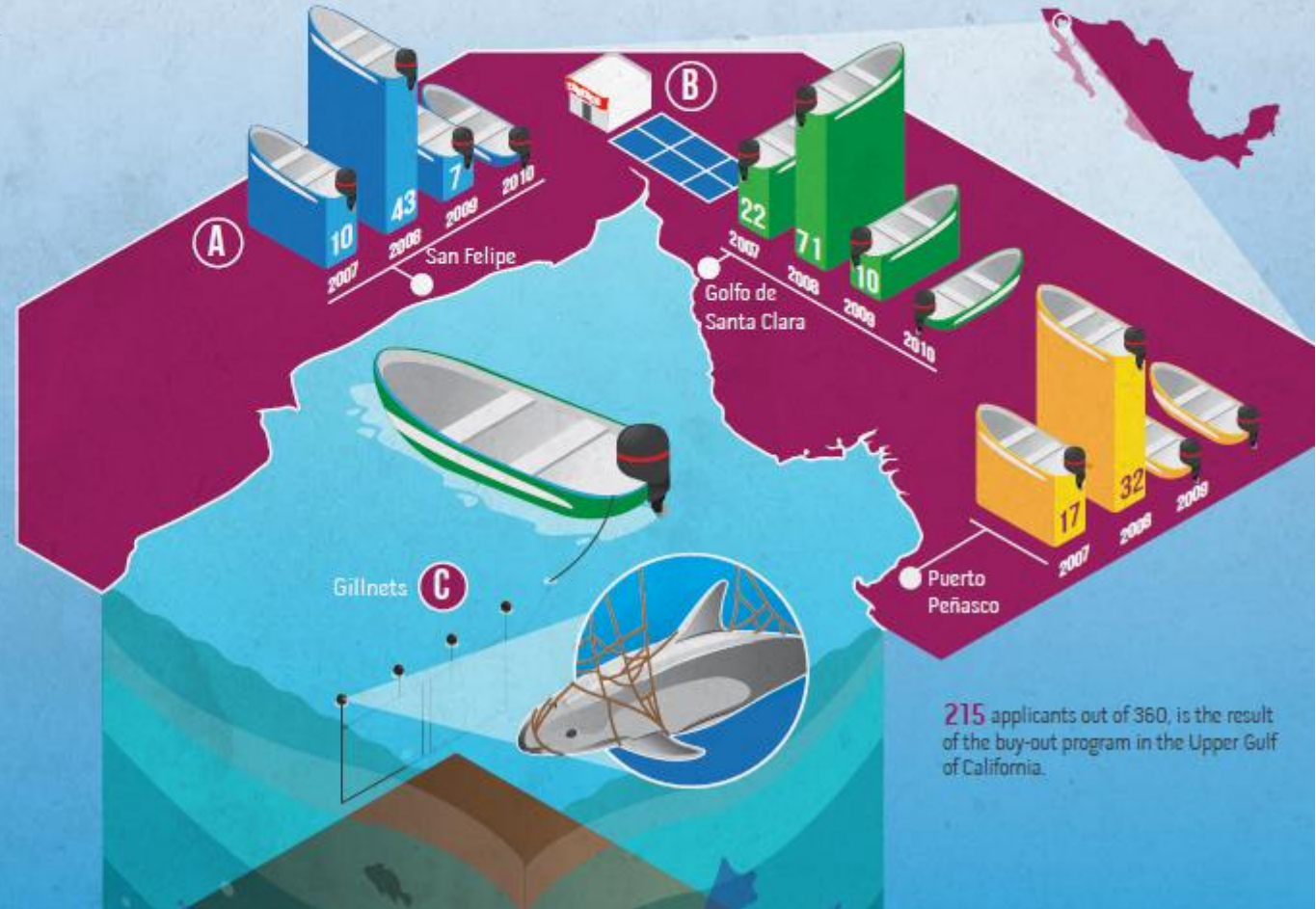
The goal is to alleviate the overwhelmed fishing industry in the Upper Gulf of California and lower the mortality of the vaquita **(C)**.

SUCCESS OF THE BUY-OUT PROGRAM

- Operational self projects
- Operational community projects
- Non-operational self projects
- Non-operational community projects



*Correspondiente a la FICHA TÉCNICA 9 de la MEMORIA TÉCNICA: INDICADORES Y MECANISMOS PARA EVALUAR LA EFECTIVIDAD DEL PPV EN EL NOROCCIDENTE DEL ALTO GOLFO DE CALIFORNIA- DEL NOVIEMBRE 19 DE 2011.



215 applicants out of 360, is the result of the buy-out program in the Upper Gulf of California.



VAQUITA

SWAP-OUT FOR NEW TECHNOLOGIES

Phocoena sinus

MEASURE OF SUCCESS



Population

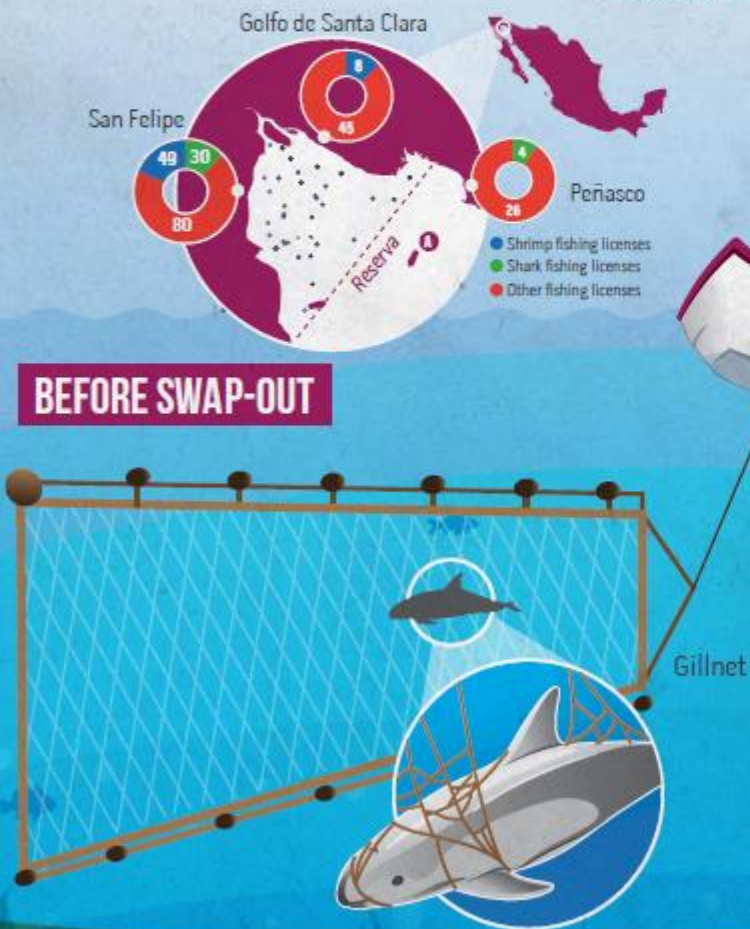
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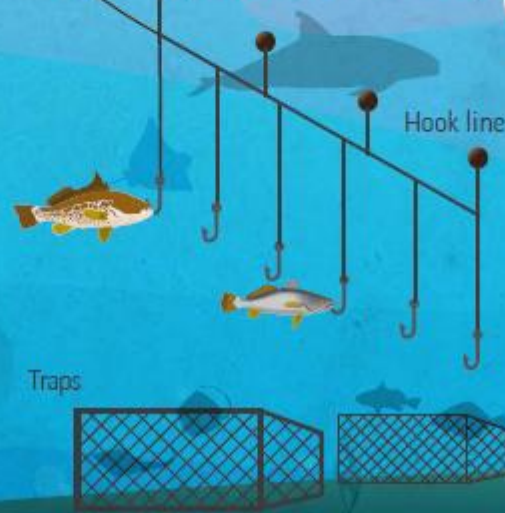
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Unlike buy-outs, swap-outs does not mean a change of economic activity. It allows fishermen to stay active with conventional fishing practices but requires technological improvements or significant changes in their fishing gear. Fishermen will face the same economic risk factors previously experienced (amount and value of fishing captures) and for which they have learned how to adapt through different strategies according to the fishing season.



AFTER SWAP-OUT



FISHERMEN SURVEY DURING SWAP-OUT PROCESS



A total of **159** fishermen were surveyed during the swap-out process. **42%** of which are currently using alternative fishing gears. Alternative gears intend to lower the vaquita incidental mortality.

*Correspondiente a la FICHA TÉCNICA 1 de la MEMORIA TÉCNICA: INDICADORES Y MECANISMOS PARA EVALUAR LA EFECTIVIDAD DEL PPV -EN EL NORTE DEL ALTO GOLFO DE CALIFORNIA- DES NOVIEMBRE 19 DE 2011.



VAQUITA *Phocoena sinus* FISHING BUY-OUTS AND SWAP-OUTS

MEASURE OF SUCCESS



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Compliance

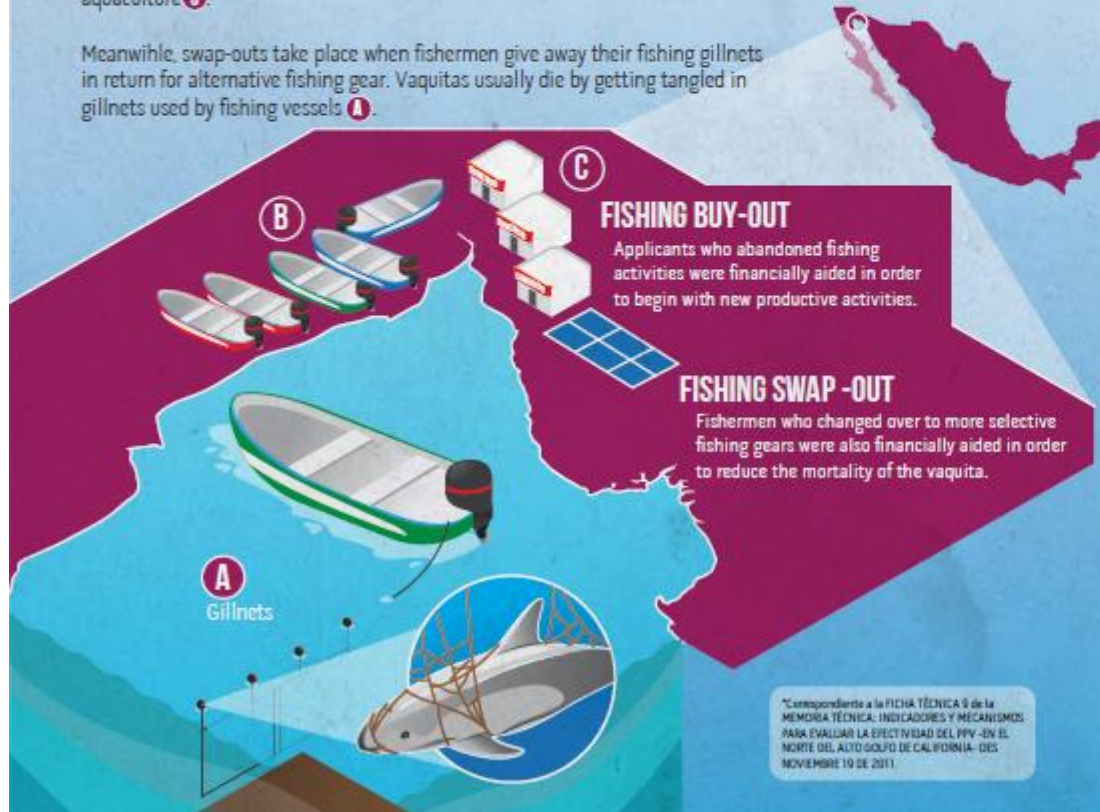
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Discussion

WHAT DOES BUY-OUT AND SWAP-OUT MEAN?

Buy-outs happen when fishermen from the Upper Gulf of California are granted with financial support in order to begin a new economic activity in return for their fishing vessels and permits (B). Fishermen commit to permanently abandon fishing practices and turn over to more effective practices such as trade of goods, services and aquaculture (C).

Meanwhile, swap-outs take place when fishermen give away their fishing gillnets in return for alternative fishing gear. Vaquitas usually die by getting tangled in gillnets used by fishing vessels (A).



*Correspondiente a la FICHA TÉCNICA 9 de la MEMORIA TÉCNICA: INDICADORES Y MECANISMOS PARA EVALUAR LA EFECTIVIDAD DEL PPV-ON EN EL NORTE DEL OCEANO PACÍFICO DE CALIFORNIA- DES NOVIEMBRE 10 DE 2011.

Number of vessels and fishing licenses permanently removed per year, under the Conservation of Species Program (PACE).

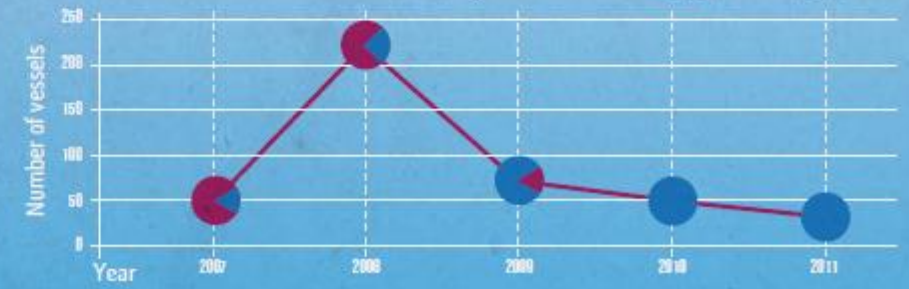
VESSELS REMOVED

Type of removal: Buy-out (red), Swap-out (blue)
360 Buy-out, 225 Swap-out



LICENSES REMOVED

Type of removal: Buy-out (red), Swap-out (blue)
240 Buy-out, 205 Swap-out



Both tables show that despite the buy-outs and swap-outs there's no real decrease of vaquita's main threat.



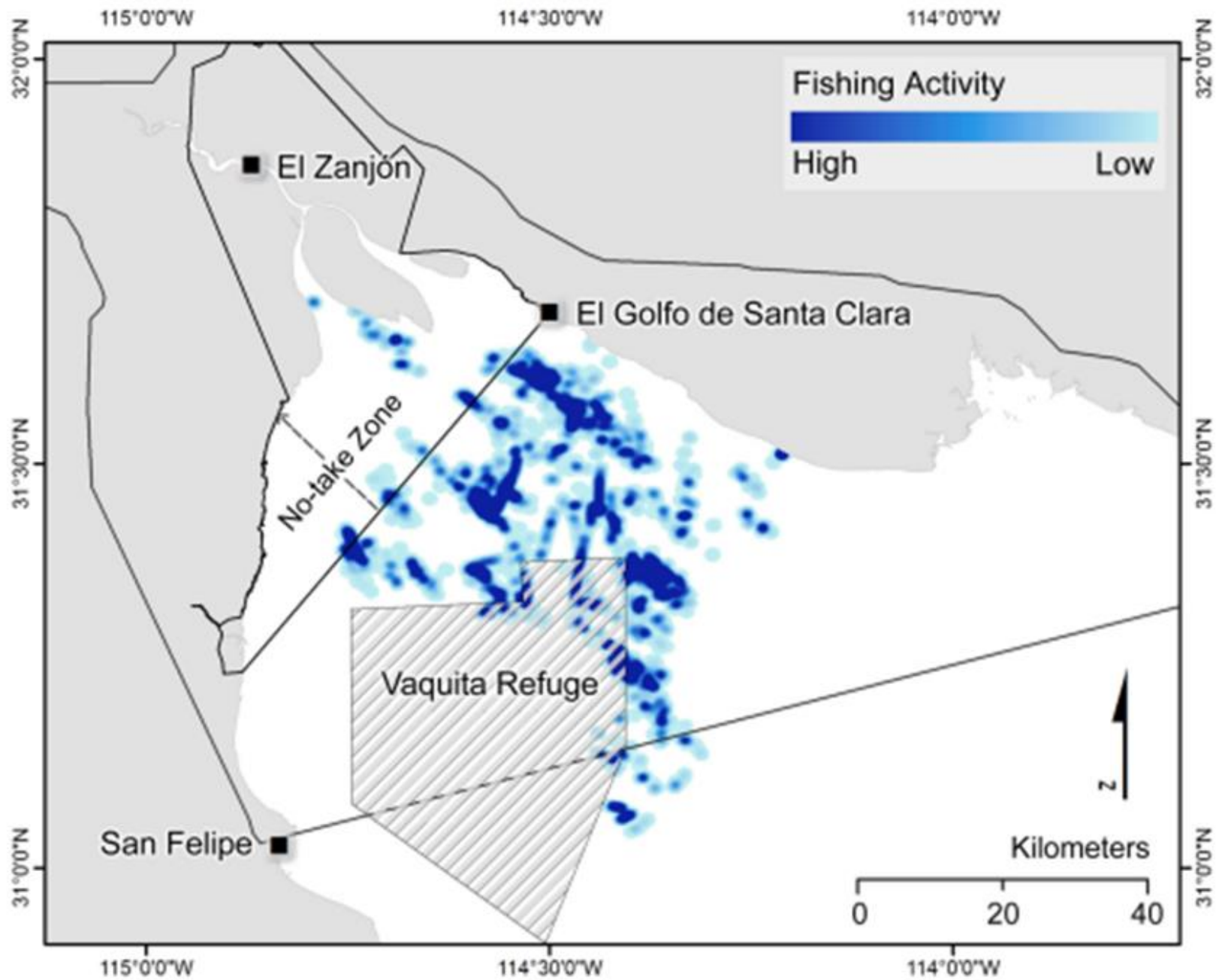
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Shrimp fleet, Santa Clara



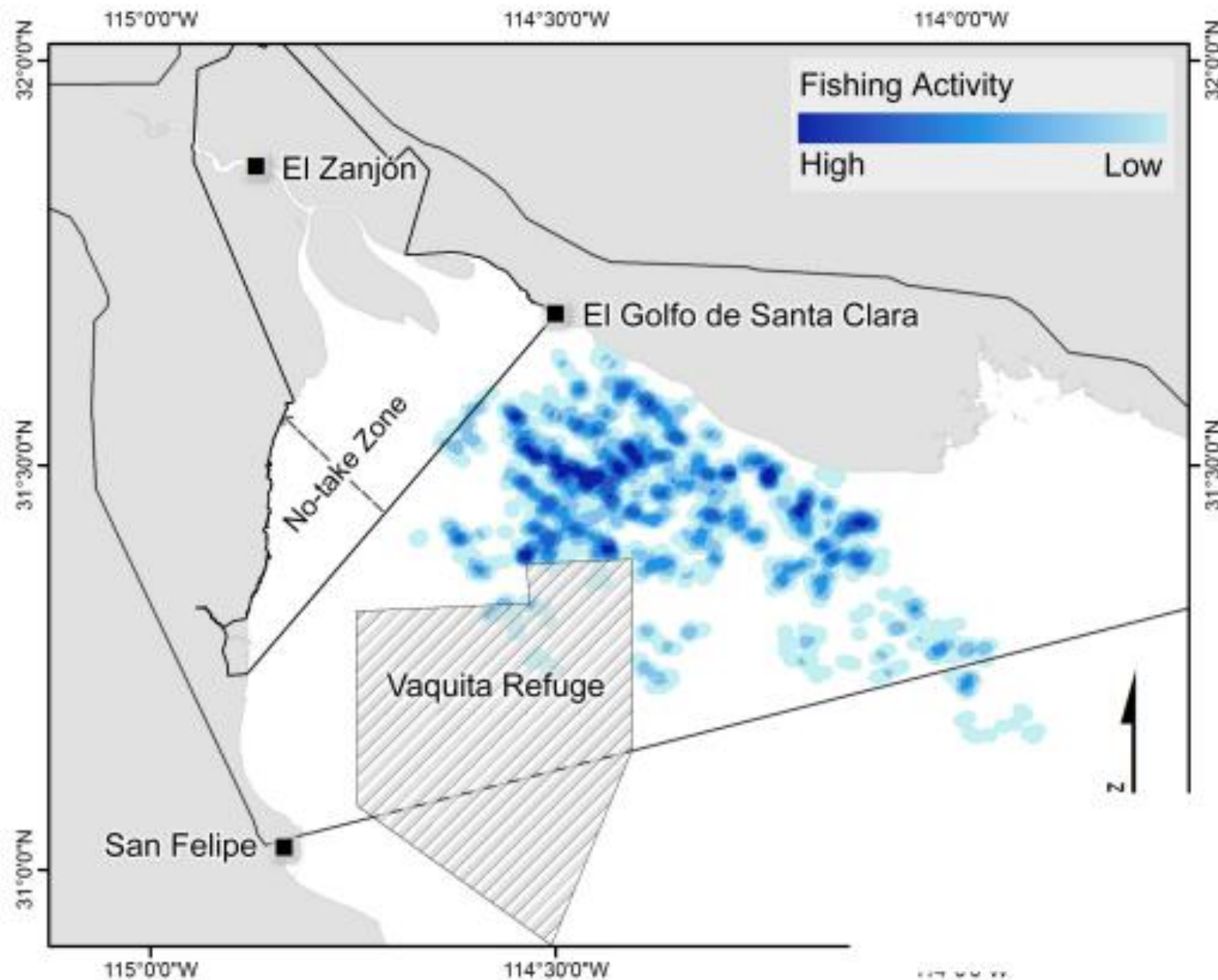
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Chano fleet, Santa Clara



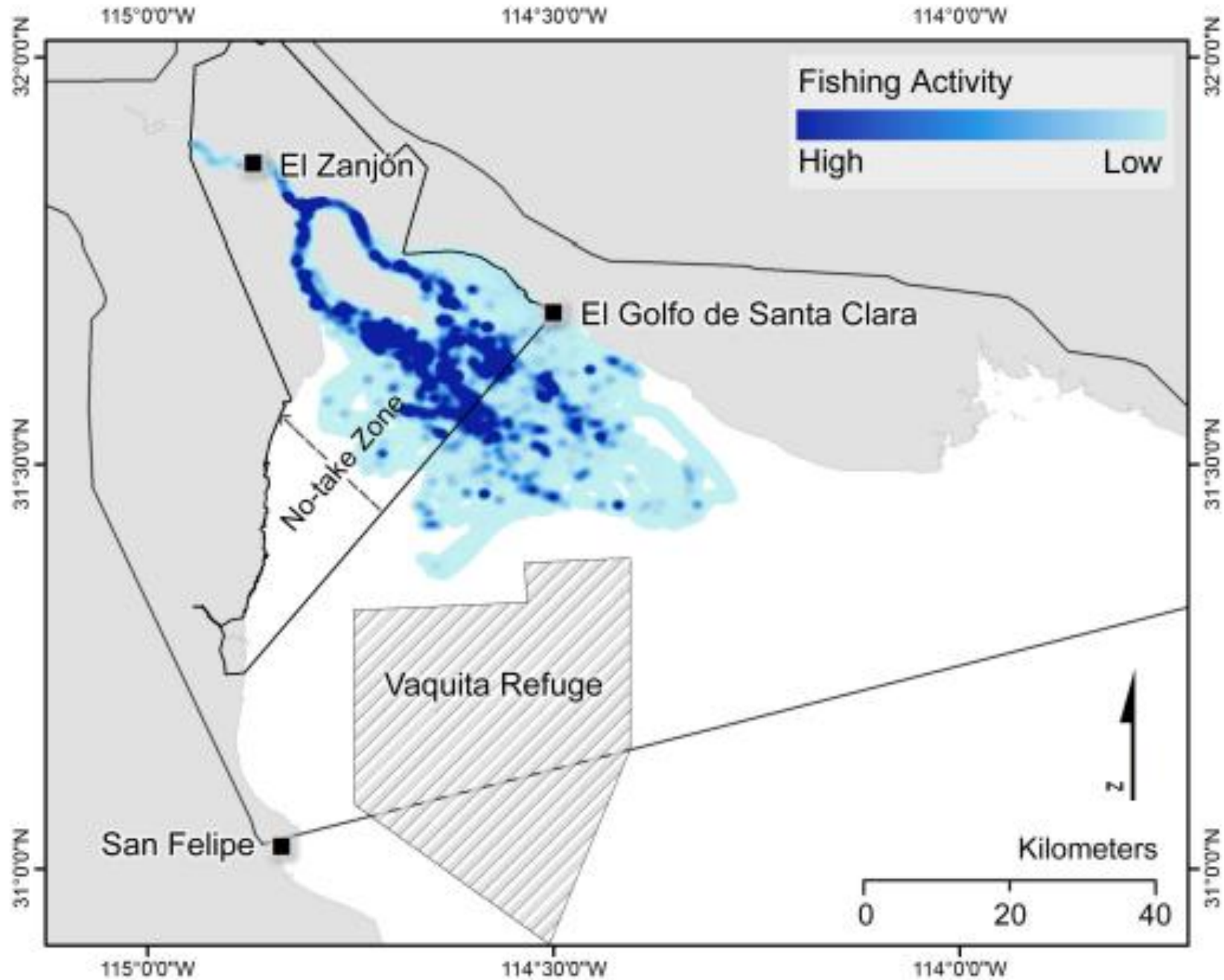
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Curvina fleet, Santa Clara



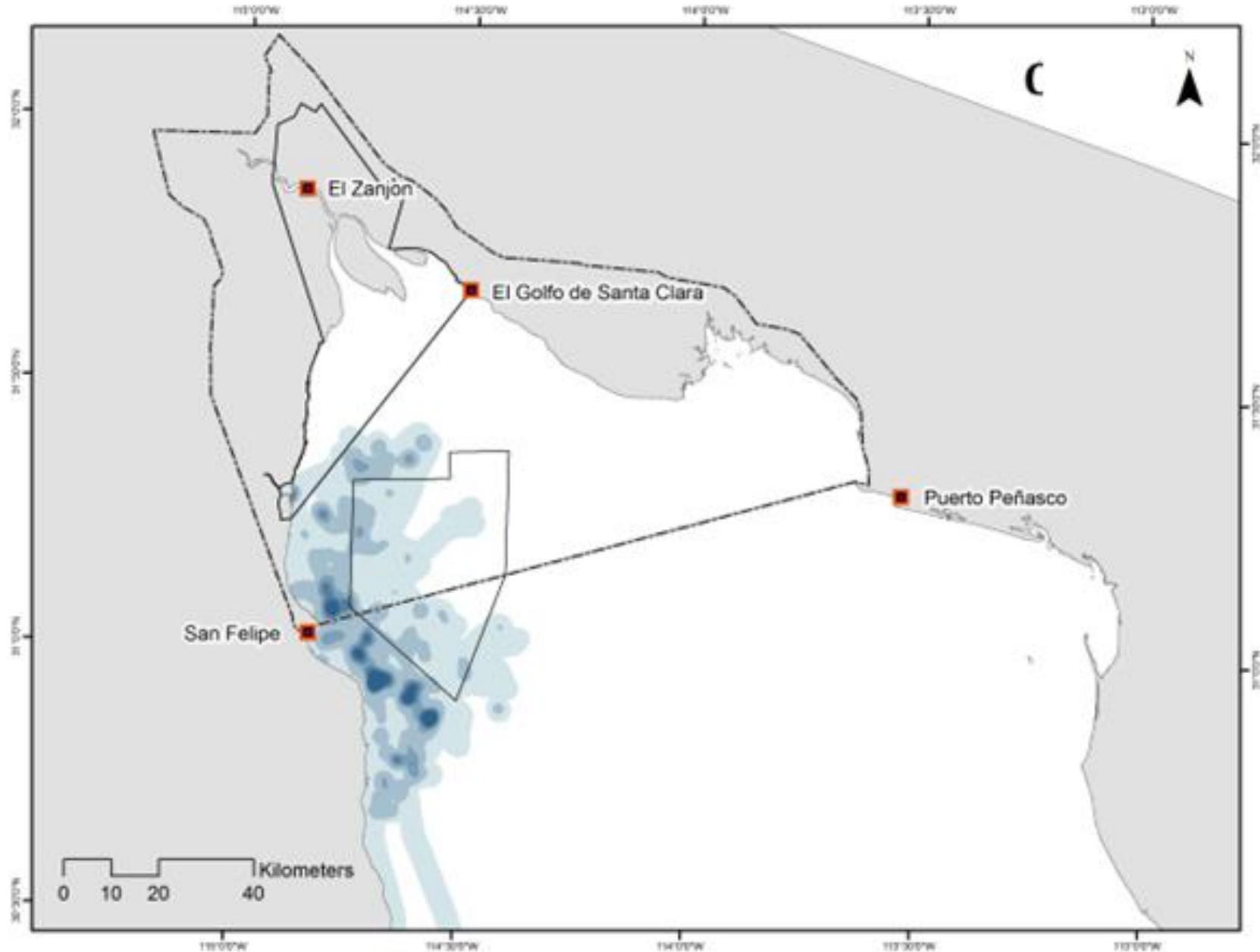
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San Felipe Fleet



Population

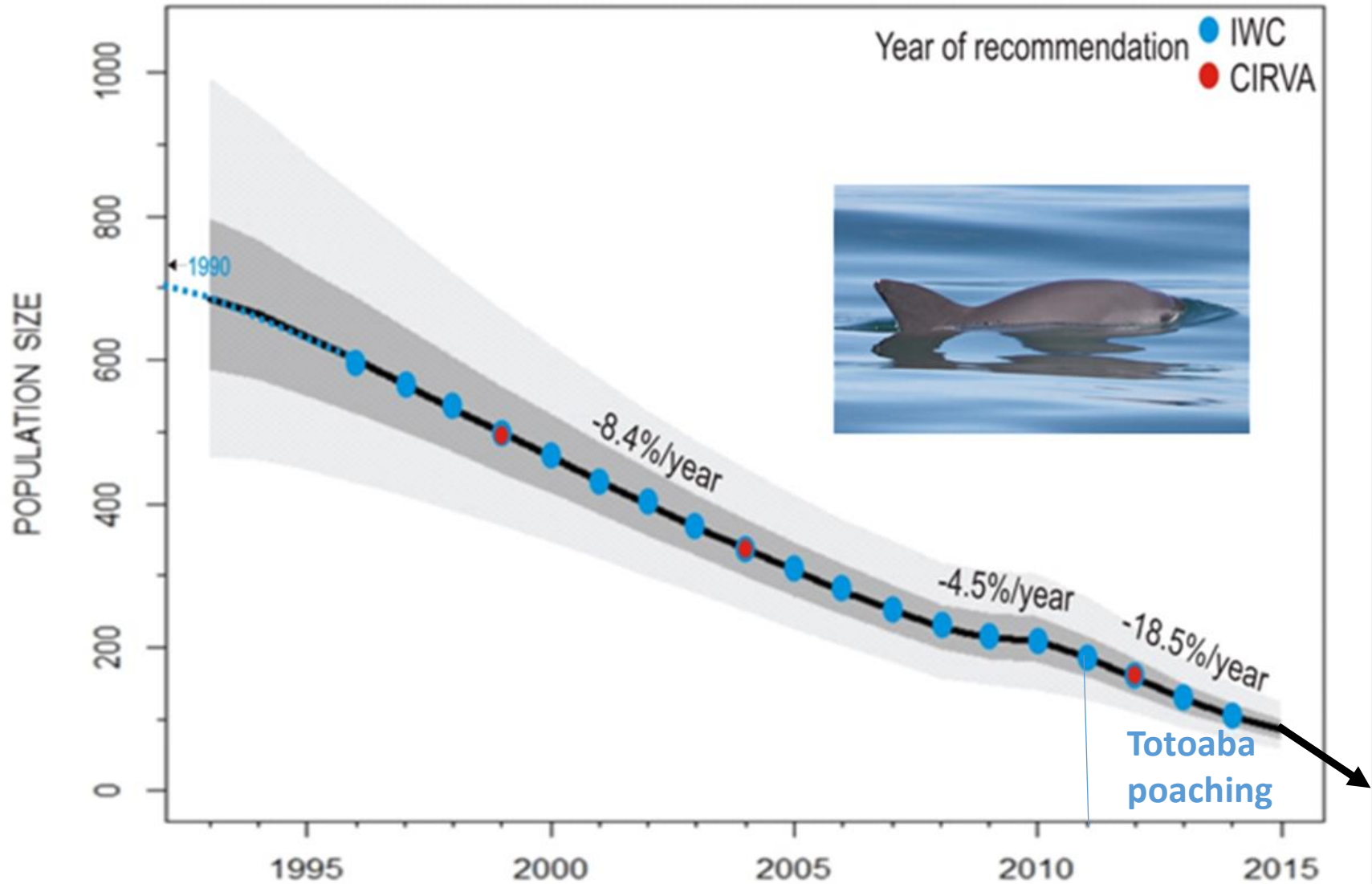
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vaquita population trajectory





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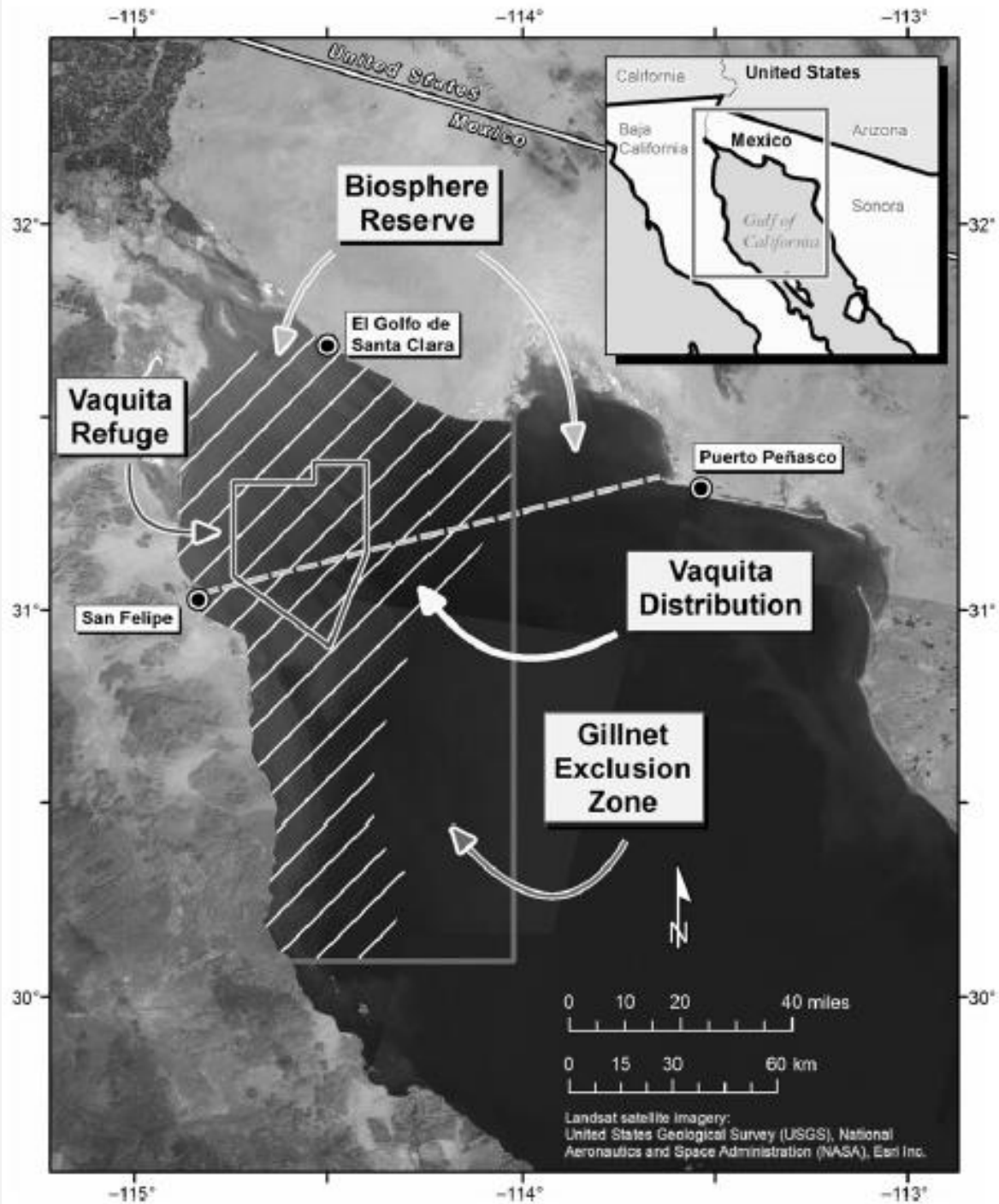
Population

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Expanded refuge



Population

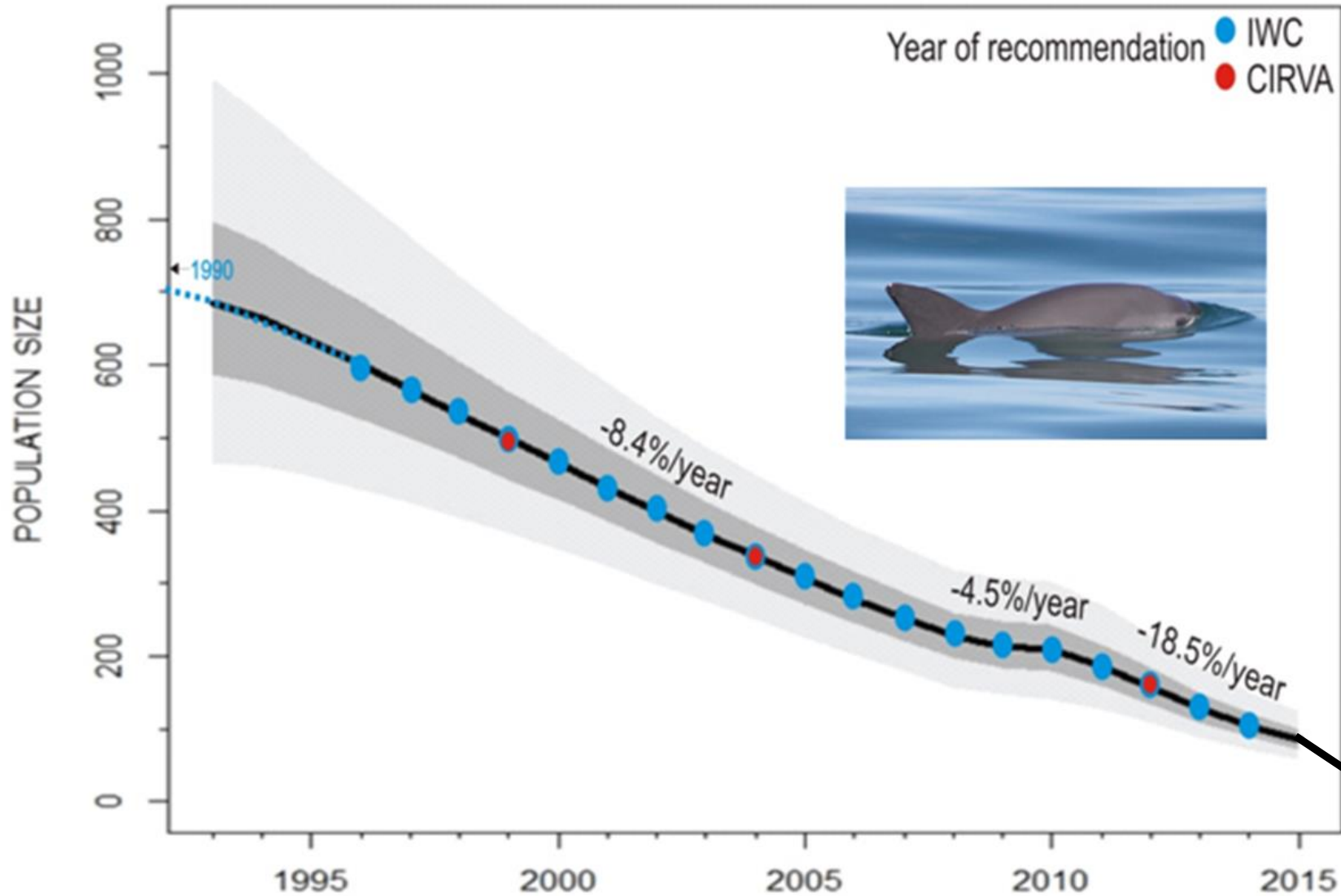
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50% annual decrease



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