



air pollution control district
SANTA BARBARA COUNTY

VESSEL SPEED REDUCTION INCENTIVE PROGRAM

2021 PROGRAM RESULTS

Board of Directors Santa Barbara County Air Pollution Control District

Our Mission: To protect the people and the environment
of Santa Barbara County from the effects of air pollution.

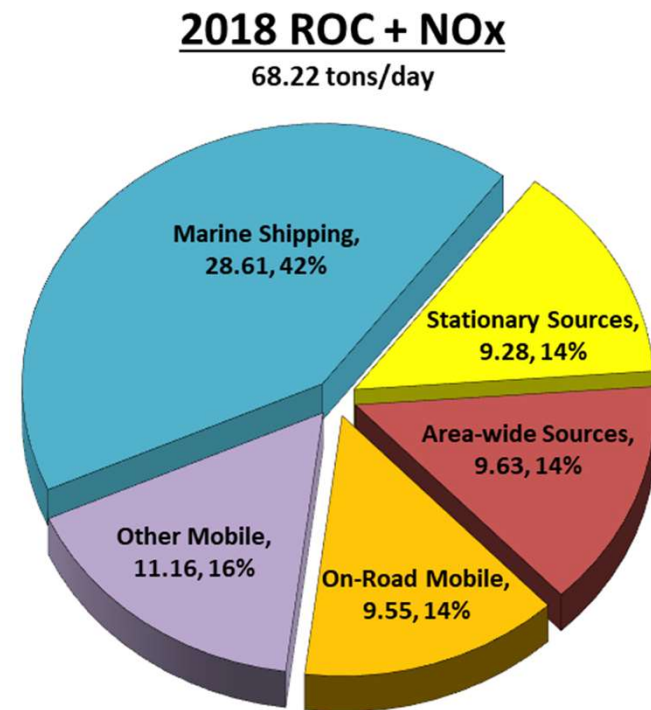
Aeron Arlin Genet
Director / APCO

Molly Pearson, Planning Division Manager
May 19, 2022



BACKGROUND

- Over 100 miles of coastline in Santa Barbara County
 - Offshore emissions = onshore impacts
- 2019 Ozone Plan
 - Emission inventory for Marine Shipping
 - Commitment to pursue VSR
- Near-term NOx reductions
 - Federal and International actions on engine requirements will take a long time
 - Air districts are required to plan to meet federal and state ozone standards



[Source: Draft estimates for 2022 Ozone Plan]

A PARTNERSHIP FOR CLEANER AIR, SAFER WHALES, AND A QUIETER OCEAN

- Air Districts, National Marine Sanctuaries, Non-Profits, Foundations
- 2014 pilot in Santa Barbara Channel, expanded each year 2016-2021
- Financial & recognition incentives to shipping companies to slow down in VSR zones
- Benefits:
 - Significant emission reductions (NOx, GHGs, PM, Air Toxics)
 - Reduce risk of fatal ship strikes on whales
 - Reduce ocean noise





Ventura County
Air Pollution
Control District



air pollution control district
SANTA BARBARA COUNTY



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT



NATIONAL MARINE
SANCTUARIES



National
Marine Sanctuary
Foundation

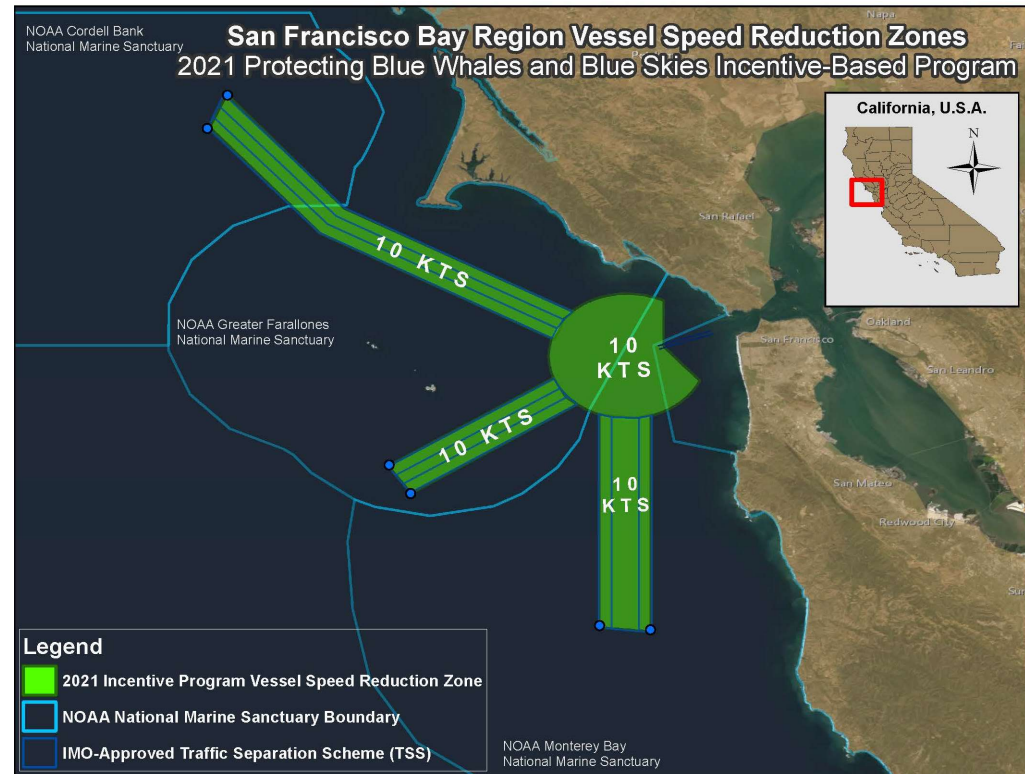
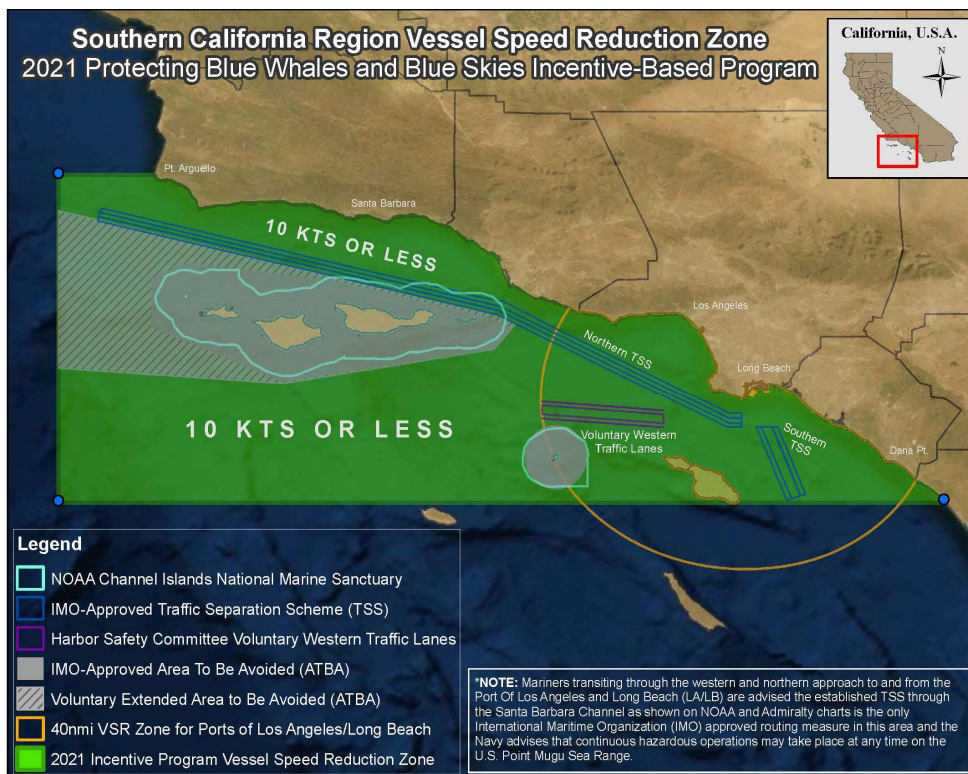


CMSF CALIFORNIA
MARINE
SANCTUARY
FOUNDATION



GREATER
FARALLONES
ASSOCIATION

2021 PROGRAM - VSR ZONES



2021 PROGRAM - CRITERIA

- Seasonal (May to November) to coincide with high ozone levels and presence of whales
- Open to containerships and auto carrier shipping companies
- Vessels voluntarily travel at 10 knots or less
- Over \$200,000 in funding for awards and recognition
- Financial awards ranged from \$5,000 to \$50,000

Recognition levels

Tiered based on % of distance traveled at 10 knots or less

Sapphire	85-100%
Gold	60-84%
Blue Sky	35-59%

RESULTS

Company	Cooperation Rate	Vessel Count	Incentive
MSC	93%	65	\$50,000
Swire Shipping	89%	4	\$5,000
Yang Ming	81%	19	\$12,500
Cosco	77%	33	\$12,500
Hapag-Lloyd	79%	18	\$25,000
Maersk	75%	49	\$25,000
Mol ACE	71%	31	\$12,500
NYK-RoRo	73%	39	\$12,500
CMA CGM	66%	57	\$25,000
Wallenius	66%	32	\$12,500
ONE	63%	63	\$25,000
Wan Hai	57%	43	\$0
K Line	56%	30	\$0
Evergreen	54%	29	\$0
Hyundai Glovis	54%	12	\$0

Sapphire Award (85 - 100%)	
 MEDITERRANEAN SHIPPING COMPANY	 SWIRE SHIPPING
Gold Award (60 - 84%)	
 MAERSK LINE	 MOL ACE Auto Carrier Express
 YANG MING	
 Hapag-Lloyd	 OCEAN NETWORK EXPRESS
 NYK LINE NIPPON YUSEN KAISHA	
 Wallenius Wilhelmsen	 CMA CGM
	 COSCO SHIPPING
Blue Sky Award (35 - 59%)	
 EVERGREEN	 HYUNDAI GLOVIS
 K LINE KAWASAKI KISEN KAISHA, LTD.	 WAN HAI LINES LTD. WE CARRY, WE CARE.

RESULTS (continued)

Total Incentive Funds	\$217,500
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Incentives Accepted	\$112,500
Incentives Declined	\$105,000



Six companies generously declined their financial incentive payment and reinvested it in the 2022 program

2021 PROGRAM - WHALE BENEFITS



Fatal Ship Strike Risk
50% reduction

Ocean Noise
5 decibel reduction



2021 PROGRAM - RECOGNITION



Fall 2021: Campaign Report

Number of News Stories	Est. Number of Impressions
150 +	1.2 million

Number of Sponsored Features and Advertisements	Est. Number of Impressions
28	4.2 million

Brand Ambassador Program

- Highlights a company's commitment to sustainable shipping.
- Increases demand signal for VSR participants.

NOMAD



INTERAGENCY WORK

California Air Resources Board

- New Ocean-Going Vessel Emission Methodology
 - Data set results in a 50% decrease in marine shipping NOx emission estimates within Santa Barbara County waters.
- 2020 Mobile Source Strategy:
 - Near-term: require cleaner vessels visiting ports
 - Long-term: stricter federal and international engine emission standards
 - Evaluating incentive or regulatory measures that achieve slower vessel speeds within Regulated California Waters (24 nautical miles from shore)

2021 California Ocean-Going Vessels Emissions Inventory

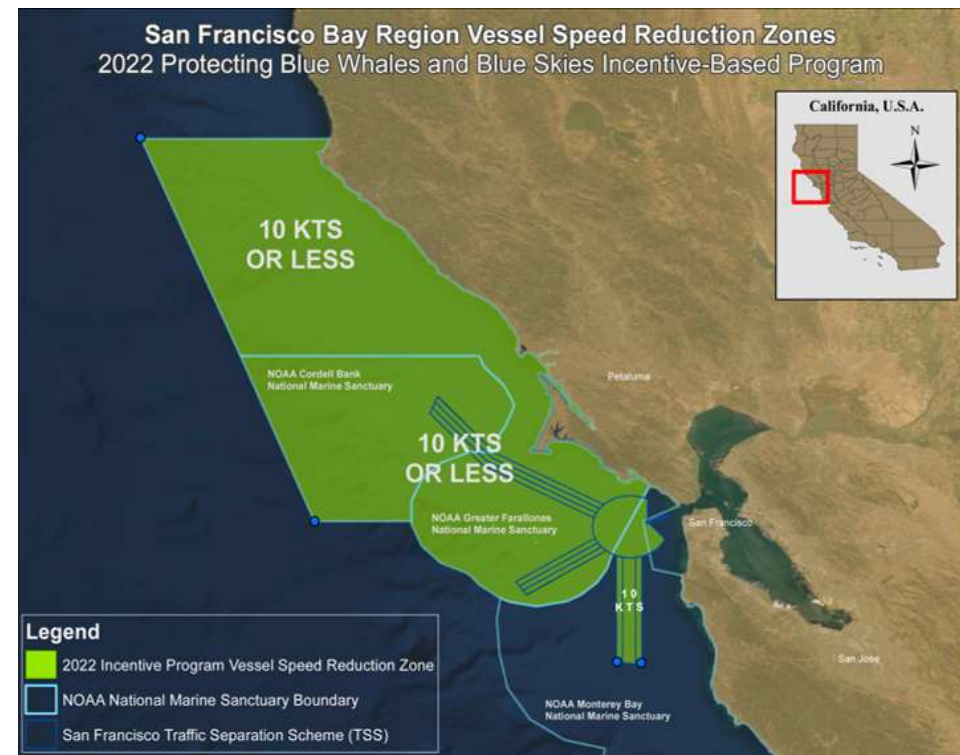


March 03, 2022



2022 PROGRAM

- **Extended Season:** May 1, 2022 to December 15, 2022
- **Expanded Vessel Types:** Added bulk and general cargo
- **Expanded Region:** Covers additional marine sanctuary waters in San Francisco Bay Region
- Nearly \$300,000 of incentive & recognition funds, from CARB Supplemental Environmental Project (SEP)
 - Managed by Ventura County APCD
 - District receives compensation for staff time
- New SEP application submitted for additional program funding for 2023 & beyond



CONTACT INFORMATION

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