PROTECTING BLUE WHALES AND BLUE SKIES
A Partnership for Cleaner Air, Safer Whales, and a Quieter Ocean

2020 Program Summary
To cut air pollution and protect endangered whales, we expanded the voluntary Vessel Speed Reduction (VSR) incentive program for the Southern CA Region & San Francisco Bay Area in 2020. The 6th season of VSR ran May 15 to November 15, coinciding with peak ozone (smog) and whale feeding and migration seasons in these highly trafficked zones off the CA coast. A fleet-based approach is used, where a company's incentive increases as more of its fleet slows down to 10 knots or less. Reducing speeds reduces the likelihood of a ship strike on whales & amount of fuel burned. See VSR zone maps below.

2020 Highlights
- 16 global shipping companies & 483 ships participated
- Total slow-speed distance: 181,306 nautical miles
- Emissions reductions:
  - 748 tons of smog-forming NOx
  - 24,258 metric tons of regional GHGs
- Ocean noise reduction: 4 dB/transit
- Reduction of ship strikes on whales:
  - SF Bay Area: 61%
  - SoCal Region: 30%

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2020 Fleet Cooperation & Awards

Participating companies receive awards and recognition based on the percentage of total nautical miles traveled at 10 knots or less by each company's fleet of vessels.

Sapphire Tier (75-100%)

Gold Tier (50-74%)

Blue Sky Award (25% or more)

Thank you to the following companies who generously declined their 2020 financial incentives!

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</thead>
<tbody>
<tr>
<td>Area</td>
<td>Santa Barbara Channel</td>
<td>Santa Barbara Channel Region</td>
<td>Santa Barbara Channel Region &amp; San Francisco Bay Area</td>
<td>SoCal Region &amp; SF Bay Area</td>
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<tr>
<td># Companies</td>
<td>7</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>15</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td># Vessels</td>
<td>14</td>
<td>25</td>
<td>44</td>
<td>280</td>
<td>349</td>
<td>495</td>
<td>181,306</td>
</tr>
<tr>
<td>Slow-speed Distance (nautical miles)</td>
<td>2,700</td>
<td>5,000</td>
<td>12,630</td>
<td>46,026</td>
<td>99,019</td>
<td>181,306</td>
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<tr>
<td>NOx Reductions (tons)</td>
<td>12.4</td>
<td>25.6</td>
<td>84</td>
<td>266</td>
<td>536</td>
<td>748</td>
<td></td>
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<tr>
<td>Regional GHG Reductions (metric tons)</td>
<td>535</td>
<td>1,005</td>
<td>2,680</td>
<td>8,868</td>
<td>17,026</td>
<td>24,258</td>
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<tr>
<td>Ocean Noise Reduction (Standing #10 Award)</td>
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<tr>
<td>Ship Strike Risk Reduction</td>
<td>--</td>
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<td>--</td>
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<td>15%</td>
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</tbody>
</table>

The table above shows participation, cooperation, and benefits of the incentive VSR program. The metrics for reductions in air pollution, noise, and ship strike risk are modeled results and represent benefits from only the enrolled companies operating during the incentive VSR time period within specified zones.

Since 2014, the voluntary VSR incentive program has seen increasing success and participation each year. We look forward to reducing air emissions, protecting endangered whales, and reducing anthropogenic noise pollution for this upcoming season.