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CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE DECLARATION OF FLEET ADVISORY FOR THE COMMERCIAL DUNGENESS CRAB FISHERY DUE TO RISK OF MARINE LIFE ENTANGLEMENT

Pursuant to Fish and Game Code Section 8276.1(b) and California Code of Regulations, Title 14, Section 132.8 ("Section 132.8"), I find and declare that:

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On April 1, 2021, I evaluated entanglement risk for the commercial Dungeness crab fishery pursuant to Section 132.8(b). I provided the California Dungeness Crab Fishing Gear Working Group (Working Group) and the Whale Safe Fisheries email listserv with notice of the risk assessment and all non-confidential data under consideration on March 30, 2021. Prior to this risk assessment and management response, I considered relevant information provided to my staff. The Working Group did not provide a management recommendation specific to this risk assessment.

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There are no marine life concentration data to inform the risk assessment in Fishing Zones 5 and 6. Pursuant to Section 132.8(c)(2)(B)(1), I must implement a protective management action.

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Upon evaluation of the management considerations pursuant to Section 132.8(d), I have determined that the management action listed below protects Humpback whales and Blue whales based on the best available science. Additional information on the relevant management considerations is provided in the attachment to this declaration.

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THEREFORE, under the authority granted by Fish and Game Code Section 8276.1(b) and Section 132.8 of Title 14 of the California Code of Regulations, I am implementing the following management action:

1. A Fishing Advisory is issued for ocean waters statewide (Fishing Zones 1 - 6) for the California commercial Dungeness crab fleet. The Department encourages the fleet to implement fishing best practices (e.g., minimizing knots, line scope) and to immediately remove all gear when an operator no longer intends to fish. Vessels fishing in Zone 3 and 4 should pay particular attention to the location of set gear and

foraging whales and minimize entanglement risk by adhering to the <u>Best Practices</u> <u>Guide</u>.

This management action is in effect until lifted or modified. The next risk assessment is expected to occur on or around April 15, 2021.

Updates and material regarding future entanglement risk evaluations in the commercial Dungeness crab fishery will be made available on the Department's web page:

Charlton H. Bonham, Director

Date/Time

/21 2:23 pm Pr

ATTACHMENT TO DIRECTOR APRIL 1, 2021 DECLARATION OF FLEET ADVISORY FOR THE COMMERCIAL DUNGENESS CRAB FISHERY DUE TO RISK OF MARINE LIFE ENTANGLEMENT

Information referenced in this Attachment is further described in the Data Summary Compilation dated March 30, 2021, and located at the Department's Whale Safe Fisheries website (https://wildlife.ca.gov/Conservation/Marine/Whale-Safe-Fisheries), which to the Department's knowledge represents the best available science informing the management considerations in Section 132.8(d).

Information Supporting Trigger for Management Action Under Section 132.8(c)

Marine Life Concentrations:

• **Fishing Zone 1 and 5:** No current data are available for these Zones, which triggers management response under RAMP (c)(2)(B)(1).

Relevant Management Considerations Under Section 132.8(d)

1. Working Group Management Action Recommendation and Best Available Science Made Available to the Department

No Working Group Recommendation was provided for this risk assessment.

2. Information from NOAA

No additional information was provided for this risk assessment.

3. Effectiveness of Management Measures to Minimize Entanglement Risk

Given the low sightings of Humpback and Blue whales, a Fleet Advisory will be an effective Management Action due to relatively low fishing effort and abundance of whales.

4. Total Economic Impact to the Fleet and Fishing Communities

A Fleet Advisory is not anticipated to have significant economic impact on the fleet or fishing communities as it allows for continued fishing opportunity.

5. Data Availability Within and Across Fishing Zones

Department aerial survey data are available for Zones 1, 2, 3 and 4 and additional Monterey Bay Whale Watch (MBWW) data are available for Fishing Zone 4. CCCA vessel observation surveys are available for Zones 1 and 5. Point Blue observation data are available for Zones 3, 4 and 6. The Habitat Compression Index and Whale Watch 2.0 habitat predictions are available for all Zones. Cascadia Research vessel

survey data are available for Zones 3 and 4. The Department considers this comprehensive data set to adequately cover the full geographic extent of those Fishing Zones to inform the appropriate management response.

6. Known Historic Marine Life Migration Patterns

Low presence of Humpback whales across all Fishing Zones is consistent with average historical early spring patterns that show few or no Humpback whale sightings when whales are mostly at their breeding areas off Mexico and central America. Recent surveys at these breeding areas indicated lower numbers of Humpback whales than previously observed during mid-winter surveys, indicating some departures.

Continued relative absence of Blue whales from Zones 1-5 is consistent with their overwintering at breeding areas outside of California.

7. Fishing Season Dynamics

Season price negotiations delayed the actual start of fishing following the December 23, 2020 statewide opener. Most vessels began setting gear on Monday January 11, 2021.

Based on CDFW landings data, 356 vessels have participated in the fishery as of March 29, 2021. Week 5 had the highest number of potential traps deployed across all Fishing Zones, with an estimated total of 134,350 traps. Fishing Zone 3 had the highest total, followed by Zone 1. Although the most recent landings data from week 13 indicates a similar level amount of crab is coming to market as compared to week 12, overall landings numbers have decreased significantly from the highest landing periods in weeks 4 and 5. Additionally, total numbers of vessels participating in the fishery has continued to decline over the past few weeks. The estimated maximum number of traps is currently 43,725 which is a slight decrease from the last risk assessment when 45,625 traps were estimated.

8. Known Distribution and Abundance of Key Forage

Krill abundance (higher offshore in the outer slope) is also anticipated to be closer to average yearly values while anchovy is still considered to be above average, given the historical record.

Humpback whales were observed foraging on large krill patches at the 200-meter contour during vessel surveys.

9. Ocean Conditions

La Niña conditions persisted in January with a 60% chance of a transition from this condition to ENSO-neutral in the northern hemisphere by the spring months of April, May and June.

The latest outlook of late winter/spring ocean ecosystem conditions shows that ocean conditions have cooled significantly over this past winter and conditions in spring are trending toward cool and productive conditions. It is anticipated that cool conditions will continue, with expanded upwelling habitat and no signs of impact of habitat compression that would otherwise result in increased concentrations and aggregations of whales and forage nearshore.

10. Current Impact Score Calculations

- a. Fishing Season 0
- b. Calendar Year 0

11. Marine Life Concentrations and Distribution During the Current Fishing Season

Based on Department aerial survey data, Monterey Bay Whale Watch data, and multiple sources of observation data, significant migration into the Fishing Grounds has yet to occur.

Chosen Management Action and Rationale

Based on the management considerations outlined above, the Director will implement a state-wide Fleet Advisory.

No current survey data was available for Fishing Zones 5 and 6, which requires analysis of the management considerations under Section 132.8(d) and appropriate management response under Section 132.8(c). Those sections anticipate a broader analysis of the factors impacting entanglement risk statewide. A Fleet Advisory under section 132.8(e) is not necessarily limited to a single Fishing Zone, and compliance with best management practices throughout the state will ensure that entanglement risk remains low as we begin to approach a time of year when Humpback and Blue whales start migrating into the Fishing Grounds. The RAMP regulations indicate a Fleet Advisory is warranted if the level of risk is elevated and/or anticipated to increase but more restrictive management actions are not necessary at this time.

Although historic information indicates we are approaching the spring migration period, available data indicate the bulk of the migration has not arrived at this time. Department aerial survey data for Zones 1 through 4 observed very few Actionable Species, and vessel surveys performed by Cascadia Research and partners in Fishing Zones 3 and 4 similarly

observed whales at low densities; it is reasonable to use this data as a proxy for whale presence in Fishing Zones 5 and 6. Additionally, observation data from Point Blue Conservation Science and vessel survey data from CCCA (combined covering Zones 1, 3, 4, 5, and 6) supports low whale presence in the Fishing Grounds. Historic migration data indicates that when whales do arrive in large numbers, Fishing Zones 3 and 4 are likely to be the first areas to see increases in densities.

Furthermore, based on oceanographic and forage condition data, cool conditions persist, and compression of available forage which could increase co-occurrence of trap gear and whales as they begin to arrive to the Fishing Grounds is not expected to occur. As expected with low compression conditions, Humpback whales were primarily observed feeding along the 200-m depth line in Fishing Zones 3 and 4. Statewide fleet participation is low and decreasing compared to activity levels from previous years, and available biweekly reporting from the fleet indicates fishing activity is occurring at a maximum depth of 80 fathoms, and on average maximum depths are below 50 fathoms. Given the above, paired with low presence of Humpback whales and Blues whales, risk is low across all management considerations at this time.

A Fleet Advisory provides notice to fishermen of possible whale presence, and encourages fishery participants to implement best fishing practices (e.g. minimizing knots, line scope) and to immediately remove all gear when an operator no longer intends to fish. Additionally, vessels in Fishing Zones 3 and 4 should pay particular attention to the location of gear and foraging whales and further minimize entanglement risk by adhering to the Best Practices Guide. The Department will perform additional risk assessments throughout the spring and respond to changing entanglement risk as appropriate should new data indicate the increased presence of Humpback and Blue whales in the Fishing Grounds.