MARINE MAMMAL HUMAN INTERACTION REPORT

Exam Information *(fill in or circle most appropriate)*

1 Field #: 2021248 Species: Orcinus orca

2 Examiner: Mandy Keogh Recorder: _____

3 Date of exam: 9/27/2021 Condition code (at exam): 1 2 3 CBD

4 Preservation: alive fresh frozen frozen/thawed Body condition: emaciated not emaciated CBD

5 Documentation: digital print slide video Image disposition: NMFS PRD

6 Integument : normal abnormal decomposed % Skin missing: <1% 10-25% 25-50% >50%

7 Explanation of terms:
YES = I have examined the area and/or found signs of this pathology, natural marking, or human interaction
NO = I have examined the area and/or did not find signs of this pathology, natural marking, or human interaction
CBD = I have examined the area and could not determine whether there were signs of human interaction (*i.e.* the part was missing, degraded, or signs were ambiguous)
NE = I did not examine the area
NA = this animal doesn't normally have that part (*i.e.* seals have no dorsal, dolphins have no rear flippers)

	WHOLE BODY EXAM	YES	NO	CBD	NE	NA	Image taken
8	External pathology *(pox, tattoo lesion, abscess, fungal patches)*		X				
9	Natural markings *(scars, tooth rakes, unusual pigmentation)*	X					
10	Appendage(s) removed / Mutilation *(with instrument)*		X				
11	Pelt removed / Mutilation *(with instrument)*					X	
12	Body sliced / Mutilation *(with instrument)*		X				
13	Gear / Debris present on animal *(including tags)*	X					
14	Gear / Debris retained *(name & contact info in Comments)*		X				
15	HI lesions *(fishery, gunshot, propeller, healed HI scar, brand)*		X				

16 Predation / scavenger damage *(circle all anatomical areas where damage hinders evaluation; numbers coincide with anatomical areas below)*: 17 18 19 20 21 22 23 24 25 26 27 28 29 NONE

FILL IN TABLE FOR **ALL POSSIBLE FINDINGS OF HI**
Do not use for natural markings/pathology.

	DETAILED EXAM OF ANATOMICAL AREAS	YES	NO	CBD	NE/NA	Type of Lesion: Impression/ Laceration	Penetrating wound	Healed HI scar	Abrasion	Other / CBD	Origin of Lesion: Gear- Line: Twine / line	Net	MO/MU/CBD*	Gear/Debris: Hook	Packing Band	Other / CBD	Other: Propeller	Gunshot	Other / CBD	Image taken?
17	Rostrum/snout		X																	
18	Mandible		X																	
19	Head and/or neck		X																	
20	L Front appendage				X															
21	R Front appendage		X																	
22	L Body				X															
23	R Body		X																	
24	Dorsum/dorsal fin				X															
25	Ventrum		X																	
26	Peduncle		X																	
27	L Rear appendage				X															
28	R Rear appendage				X															
29	Flukes/tail	X				✔														

* If Gear-Line is the lesion origin, mark the MO/MU/CBD column: "MO" for monofilament, "MU" for multifilament, and "CBD" if the type of line cannot be determined

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	INTERNAL EXAM Date _____	YES	NO	Partial	CBD	Image taken	Detailed Info *(circle all that apply)*
30	Internal exam conducted		✔				*Details in Comments section -use line number*
31	Bruising/blunt trauma						*Details in Comments section -use line number*
32	Skeleton examined						*Details in Comments section -use line number*
33	Broken bones present						*Associated tissue reaction: YES NO CBD*
34	Mouth/GI tract examined *(circle contents)*						*intact prey* *partially digested* *hard parts only* ***debris/gear*** *empty* *other*
35	Lungs/bronchi examined						*Details in Comments section -use line number*
36	Lung/bronchi contents						*froth* *fluid* *air* (color:)
37	Bullet/projectile found						*found using: CT X-ray dissection (collected? Y N)*
38	Other lesions noted						*Details in Comments section -use line number*

39 **Comments** (*note line number from left margin before each comment*):

29. cut observed on fluke and rope present around peduncle, rope was attached after the orca was brought up dead in their net.

40 **Findings of Human Interaction:** ☑YES ☐NO ☐CBD

(Exam Type: ☑ Photos Only ☐ External Exam ☐ Partial Internal Exam ☐ Complete Internal Exam (necropsy))

☑ Entanglement (gear ✔ debris__ CBD__)	☐ Vessel trauma (sharp__ blunt__ both__)	
☐ Hooking (recreational__ commercial__ CBD__)	☐ Gunshot	☐ Mutilation
☐ Ingestion (gear__ debris__ CBD__)	☐ Harassment	☐CBD/Other_____

42 **Stranding Event History/Circumstances:**

An orca was pulled up in their fishing net. The fisher is mailing in their MMAP report and AKR PRD requested photos and a skin sample that was collected and dropped off at the NOAA office in Dutch Harbor.

43 **INITIAL HUMAN INTERACTION EVALUATION:** If you marked YES above (line 40) evaluate the external exam, necropsy, carcass condition and circumstances surrounding the stranding event to answer the question below. *Remember to be conservative in your subjective evaluation*.

What is the likelihood that the finding of human interaction (line 40), contributed to the stranding event?

0: Uncertain (CBD) | 1: Improbable | 2: Suspect | 3: Probable

44 **Justification:**

Very fresh orca was pulled up in their fishing net. Reported to MMAP.

Final human interaction evaluation requires additional data from level B and C analyses as well as review by experts (e.g. a veterinary pathologist)

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