

**Preliminary serious injury determinations for
observed false killer whale entanglements or hookings
in Hawaii-based longline fisheries, Jan 2009 - May 2011**

Summary prepared for the
False Killer Whale Take Reduction Team Meeting, July 27-29, 2011
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	False Killer whales (+Possible False Killer Whales)				
	TOTAL	Dead	Serious	Non-Serious	CBD
DEEP-SET					
2009	9 (+1)	1	7	0 (+1)	1
2010	5 (+3)	0	4 (+2)	1	0 (+1)
Jan-May 2011	2	0	1	0	1
SHALLOW-SET					
2009	0	0	1	0	0
2010	0	0	0	0	0
Jan-May 2011	0	0	0 (+1)	1	0

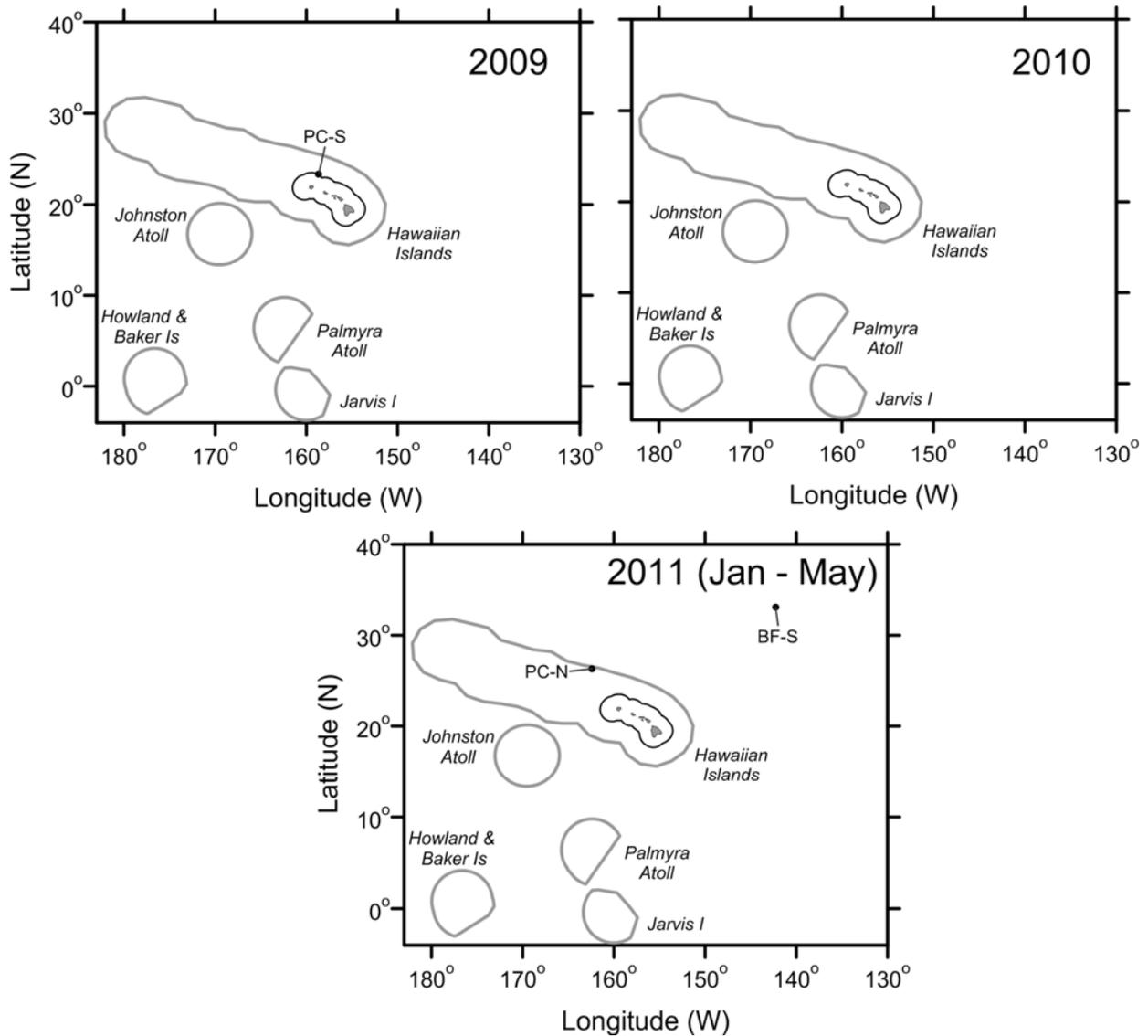


Figure 2. Locations of false killer whale or possible false killer whale takes in the shallow-set longline fishery, 2009-2011. Labels represent species codes and injury determination. Species codes are: BF= ‘blackfish’ (false killer whale or pilot whale), PC = false killer whale,. Injury determination codes (following the ‘-’) are: S = serious injury, N = non-serious injury.

Details of preliminary serious injury determinations for false killer whales observed hooked or entangled in Hawaii-based longline fisheries, 2009-2011

Trip Arrival Year	Cetacean Take Date	Approx. EEZ Area	Species Code	Reviewed by SRG?	Preliminary Serious Injury Determination	Andersen et al. 2008 Criteria	Injury determination criteria
DEEP-SET FISHERY							
2009	13-Feb-09	Hawaii (P)	PC	Yes	Serious	7,10	Hooked in mouth (36 offset tuna), eye of hook visible; released with hook, 0.5m wire leader, 45g weight, and ~3 ft of monofilament branchline. Animal very active (difficult to bring in close), line cut within ~3ft of leader. Animal length ~8ft.
2009	18-Feb-09	Hawaii (P)	PC	Yes	CBD	14 or 26?	Hooked/entangled around fluke (15/0 offset circle hooks). Hook from one branchline in animal and wrapped twice around tail stock, hook from second line caught on line after one wrap. Released with two hooks, two wire leaders (0.7m), 2-4 ft. of two branchlines
2009	14-Apr-09	Outside	PC	Yes	Serious	7, 10	Hooked in mouth (38 offset tuna hook, 215lb branchline). Hook, 5 m of branchline, 45g weight and 0.3m wire leader (400lb) remained on animal after it broke free. Animal was approximately 7ft long.
2009	19-Apr-09	Hawaii (P)	PC	Yes	Serious	10	Hooked in unknown location (38 offset tuna hook); Line cut with 15m of branchline (215lb), 45g weight, 0.3 wire leader (400lb), and hook attached to animal. Animal estimated to be 9 ft long.
2009	22-Apr-09	Outside	PC	Yes	Dead	n/a	Animal entangled around fluke (2 wraps).
2009	27-Jun-09	Outside	PC	Yes	Serious	7, 10	Hooked in mouth (15/0 offset circle) with fish tail protruding visibly; line broke at crimp after about 5 minutes; hook, 0.5m wire leader, and 45g or 60g weight remained on animal. Estimated size 20ft.
2009	31-Jul-09	Outside	PC	Yes	Serious	7,10	Hooked in mouth/hook ingested (either 15/0 offset circle or 36/38 offset tuna). Animal cut loose with hook, 10.5 mono branchline, 0.5m wire leader and 60g weight attached.
2009	31-Jul-09	Outside	PC	Yes	Serious	10	Animal hooked in unknown location; released with 11.9m mono branchline, 0.5m wire leader, 60g weight and hook (either 15/0 offset circle or 36/38 offset tuna).
2009	22-Oct-09	Outside	PC	Yes	Serious	7,10	Hooked in left side of mouth on jaw with hook partly visible; animal pulled forcefully but did not come free, line cut after 1-2 minutes; 4 ft branchline, 0.5 m wire leader, hook and 45g weight attached to animal when released. Estimated size 6-7 ft.
2009	30-Aug-09	Outside	UC	Yes	Not serious	11	Hooked in unknown location (36 offset tuna hook); Animal came off hook and branchline was retrieved intact (no gear left on animal). Animal was estimated to be 2 m long; possible immature PC, GM or TT based on dark gray color.
2010	11-Oct-10	Hawaii (P)	BF	Yes	Serious	7,10	(Comments provided by both observer and captain): Hooked in jaw, released with a few feet of nylon line attached to 0.6m wire leader, a 15/0 circle hook, and 45g weight . Animal estimated 12ft in size.
2010	23-Dec-09	Outside	PC	Yes	Serious	7,10	Hooked in lower left jaw (36 offset tuna hook); hook, 0.5m wire leader, 0.3m branchline and 60g weight remained on whale when line cut.
2010	11-Jul-10	Hawaii (P)	PC	Yes	Serious	1,10	Hook and wire leader not visible in mouth and apparently ingested (hook either 15/0 offset circle or 36 offset tuna) ; line cut with hook, 0.5m wire leader, 45g weight, and 3 m branchline attached to animal.
2010	3-Jul-10	Hawaii (P)	PC	Yes	Serious	1 or 7,10	Animal hooked in mouth or ingested hook; released with hook, 0.5 m leader, 45g weight and 1.2m of branchline attached. Unknown hook type as vessel used 36 and 38 tuna hooks and 14/0 and 15/0 circle hooks.
2010	22-Oct-10	Hawaii (P)	PC	(Planned for Nov 2011)	Not serious	11	Briefly hooked while taking bait; pulled free with straightened hook; Hook type was 15/0 standard 4.5mm; total interaction lasted a few minutes (Weak circle hook experimental trip)

Trip Arrival Year	Cetacean Take Date	Approx. EEZ Area	Species Code	Reviewed by SRG?	Preliminary Serious Injury Determination	Andersen et al. 2008 Criteria	Injury determination criteria
2010	2-Dec-10	Outside	PC	(Planned for Nov 2011)	Serious	1 or 7, 10	Hooked in mouth or hook ingested (hook not visible); line broke or cut with 15/0 offset circle hook, swivel, 0.7m wire leader, 45g weight, and 2-3" of monofilament attached.
2010	1-Dec-10	Outside	UC	(Planned for Nov 2011)	Serious	7,10	Hooked in mouth/head; broke line with 15/0 offset circle hook, swivel, 0.7m wire leader, 45g weight, and 18" of monofilament attached; Small dark gray animal (4.5-5.5ft)
2010	21-Dec-10	Outside	UC	(Planned for Nov 2011)	CBD	10?	Animal hooked and/or entangled in multiple branchlines (retrieved tangled), some hooks missing and one branchline leader snapped, suggesting that line broke with unknown amount of gear attached to animal in unknown manner; animal observed surfacing once before it broke free.
2011	18-Feb-11	Hawaii (P)	PC	(Planned for Nov 2011)	Serious	7,10	Hooked in mouth; released with 36 offset tuna hook, 0.5m wire leader, weight and 13.7m branchline
2011	18-Feb-11	Hawaii (P)	PC	(Planned for Nov 2011)	CBD	10?	Unknown whether hooked or entangled; 36 offset tuna hook, 0.5m wire leader, weight and 'some' (unknown amount of 13.7m) branchline attached.
SHALLOW-SET FISHERY							
2009	4-Jun-09	Hawaii (P)	PC	Yes	Serious	7,10	Hooked in mouth (18/0 offset circle hook), part of hook visible protruding from upper jaw; Animal released with hook, 6m branchline (400lb), 9.3m mono leader, 80g weight, and lightstick attached. Animal size estimated as 9 ft.
2011	15-May-11	Hawaii (P)	PC	(Planned for Nov 2011)	Not serious	11	Hooked in mouth (front or middle inside, hook not visible) by 18/0 offset circle hook; animal pulled to within ~15ft of vessel and not struggling very hard; hook pulled out and all gear was retrieved. Total interaction lasted about 3-4 minutes.
2011	24-Dec-10	Outside	BF	(Planned for Nov 2011)	Serious	7, 10	Hooked in head/mouth (18/0 offset circle hook); gear remaining not assessed but included hook and mono leader and likely part of branchline and weight

Species Codes: BF = 'blackfish' (false killer whale or short-finned pilot whale); UC = unidentified cetacean

CBD = Cannot be determined

Hawaii (P) = Hawaii, Pelagic False Killer Whale Stock Range