

# Alaska Track 1: Preliminary Review of the 2016 Season

**Table 1a.** Review status

<b>Trip Review Status*</b>	<b>Longline Halibut</b>	<b>Longline Pacific Cod</b>	<b>Longline Sablefish</b>	
Review Completed (# trips)	5	12	14	<b>31</b>
Total Trips	5	12	16	<b>33</b>
Review Completed (percent)	100%	100%	88%	<b>94%</b>

\* All subsequent summaries are based on reviewed trips only

**Table 1b.** Summary of data including: number of vessels, number of trips, and number of hauls.

<b>Data Summary</b>	<b>Longline Halibut</b>	<b>Longline Pacific Cod</b>	<b>Longline Sablefish</b>	<b>All Fisheries</b>
Vessels	3	3	5	<b>9</b>
Trips	5	12	14	<b>31</b>
Hauls	34	160	83	<b>277</b>

**Table 2.** Trip and Haul Level Data Quality Assessment

**Trip Level Data Quality (all review levels)**

	<b>Longline Halibut</b>	<b>Longline Pacific Cod</b>	<b>Longline Sablefish</b>	<b>Total</b>
<b>Number of Trips with Complete Video Data</b>				
Total	4	4	8	<b>16</b>
Percent of trips	80%	33%	57%	<b>52%</b>
<b>Number of Trips with Complete Sensor Data</b>				
Total	5	7	10	<b>22</b>
Percent of total trips	100%	58%	71%	<b>71%</b>

**Haul Level Data Quality (review level 1-4 only)**

<b>Video Completeness (Number of Hauls)</b>	<b>Longline Halibut</b>	<b>Longline Pacific Cod</b>	<b>Longline Sablefish</b>	<b>Total</b>
Video complete	29	97	72	<b>198</b>
Intermittent gaps in video coverage		55	1	<b>56</b>
Video ends before catch handling ends	2	4	6	<b>12</b>
Video starts after haul start	3	3	3	<b>9</b>
No video		1	1	<b>2</b>
<b>Total</b>	<b>34</b>	<b>160</b>	<b>83</b>	<b>277</b>

**Catch Completeness (Number of Hauls)**

Complete - All catch brought onboard was recorded	33	101	81	<b>215</b>
Incomplete - Part of catch not recorded	1	59	2	<b>62</b>

**Data Confidence from Video (Number of Hauls)**

High	33	90	71	<b>194</b>
Medium		63	8	<b>71</b>
Low	1	6	3	<b>10</b>
Unusable				
No Video		1	1	<b>2</b>

**Image Quality (Number of Hauls)**

High	33	97	69	<b>199</b>
Medium		45	10	<b>55</b>
Low	1	17	3	<b>21</b>
Unusable				
No Video		1	1	<b>2</b>

**Primary Reason for Medium Image Quality (Number of Hauls)**

Condensation				<b>0</b>
Glare			1	
Dirty Cameras		2		<b>2</b>
Night Lighting		5		<b>5</b>
Poor Camera Angles		27	1	<b>28</b>
Water Spots		11	8	<b>19</b>

**Primary Reason for Low Image Quality (Number of Hauls)**

Condensation				
Glare				
Dirty Cameras				
Night Lighting				
Poor Camera Angles	1	6		
Water Spots				
No data from one or more cameras		11	3	

**Table 3.** Summary of logbook data submissions for a given trip.

<b>Effort Log Completed</b>	<b>Longline Halibut</b>	<b>Longline Pacific Cod</b>	<b>Longline Sablefish</b>	<b>Total</b>	<b>Percent Total</b>
Yes	5	10	14	<b>29</b>	<b>94%</b>
No		2		<b>2</b>	<b>6%</b>
<b>Total</b>	<b>5</b>	<b>12</b>	<b>14</b>	<b>31</b>	<b>100%</b>

**Table 4.** Review rate by target fishery. Review of both retained and discarded catch included.

	<b>Longline Halibut</b>	<b>Longline Pacific Cod*</b>	<b>Longline Sablefish</b>
Haul Count	34	160	84
Average Sort Min/Haul	116	117	209
Average Review Min/Haul	73	107	105
Average Review Min/Sort Min	0.69	0.93	0.50

**Table 5.** Counts of video recorded retained and discarded catch.

Species	Longline Halibut			Longline Pacific Cod			Longline Sablefish		
	Retained	Discarded	Unknown	Retained	Discarded	Unknown	Retained	Discarded	Unknown
<b>Rockfish and Thornyheads</b>									
Rockfish - unidentified					3				
Rockfish, Black				34	1		1		
Rockfish, Canary	13	1		1				1	
Rockfish, Dark unidentified		1							
Rockfish, Dusky (was Light Dusky)	8	1		4	8		13	1	
Rockfish, Northern									
Rockfish, Quillback	1				21				
Rockfish, Red Banded	31	1		4	1		3		
Rockfish, Redstripe									
Rockfish, Rosethorn									
Rockfish, Silvergray				13	1				
Rockfish, Small Red unidentified	1	1		10	1		15	3	
Rockfish, Tiger				1	1				
Rockfish, Yelloweye	166	3			7		69		
<i>Rockfish, Rougheye</i>	63	4		15			188	9	
<i>Rockfish, Shortraker</i>	36	2		9	2		364	26	
<i>Rockfish, Shortraker/Rougheye unidentified</i>	135	15		33	1		554	50	
Rockfish, Shortraker/Rougheye Total	234	21		57	3		1,106	85	
<i>Rockfish, Longspine Thornyhead</i>									
<i>Rockfish, Shortspine Thornyhead</i>	70	2		2			510	249	
<i>Rockfish, Thornyhead unidentified</i>	248	25		1			3,146	1,092	
Rockfish, Thornyheads Total	318	27		3			3,656	1,341	

Species	Longline Halibut			Longline Pacific Cod			Longline Sablefish		
	Retained	Discarded	Unknown	Retained	Discarded	Unknown	Retained	Discarded	Unknown
<b>Sablefish</b>	1,651	92		10	177	1	26,179	863	
<b>Pacific halibut</b>	1,113	1,129		210	4,210	1	360	555	
<b>Pacific cod</b>	378	16		37,779	651	1	1		
<b>Lingcod</b>	33	8		3	26		10	2	
<b>Flatfish</b>									
Flatfish - unidentified					162	2		1	
Flounder, Arrowtooth		40		5	205			34	
Flounder, Kamchatka					8		1	2	
Flounder, Kamchatka/Arrowtooth - unidentified		124		7	507		1	89	
Flounder, Kamchatka/Arrowtooth Total		164		12	720		2	125	
Sole, Dover		1						4	
Sole, Flathead					121	1			
Sole, Petrale									
Sole, Rock Sole unidentified					1				0
<b>Other Fish</b>									
Pollock (Walleye Pollock)				1,181					
Grenadier (Rattail), Giant		9					2	1,358	
Grenadier, (Rattail) - unidentified		10			1		81	5,671	
Flatnose, Pacific (Codling)									
Greenling - unidentified									
Ratfish, Spotted		21			2			6	
Ronquil/Searcher - unidentified					17				
Roundfish - unidentified		1		10	82	1		41	
Sculpin - Myoxocephalus unidentified					43				
Sculpin - unidentified		72		3	2,642	2			
Sculpin, Bigmouth		1			2				
Sculpin, Great				1	100				
Sculpin, Irish Lord - unidentified		5			78				
Sculpin, Red Irish Lord					14				
Sculpin, Yellow Irish Lord		50		3	905				
Fish head /lips or parts		2			7		4	97	
Fish - unidentified				6	59			2	

Species	Longline Halibut			Longline Pacific Cod			Longline Sablefish		
	Retained	Discarded	Unknown	Retained	Discarded	Unknown	Retained	Discarded	Unknown
<b>Shark</b>									
Shark, Pacific Sleeper (Mud)					5				
Shark, Spiny Dogfish		82			241		3	56	
<b>Skate</b>									
Ray, (Skate) - unidentified				1	22				
Skate - Soft Snout unidentified		8		7	289			40	
Skate - Stiff Snout unidentified					6				
Skate, Alaska					45			3	
Skate, Aleutian		3		6	35			3	
Skate, Bering		2			32				
Skate, Big		104		312	716	1		6	
Skate, Longnose		122		263	456			48	
Skate, Roughtail							1	106	
<b>Crab</b>									
Crab - unidentified (Family Unknown)								1	
Crab, King - unidentified									1
Crab, King, Couesi									14
Crab, Tanner - Unidentified									
<b>Coral</b>									
Bryozoans/Coral Unid					3		13	32	
Coral, Red Tree					1			2	
<b>Invert</b>									
Invertebrate - unidentified		7			98		1	34	
Sand Dollars, Sea Urchins		47			9				
Sea Anemone - unidentified		3			84			3	
Sea Whip, Sea Pen - unidentified				2	700		2	218	
Snail - unidentified		17			7				
Snail, Empty Shell					4				
Sponge - unidentified					1				0
Worm - unidentified (flatworms, ribbon worms)									
Octopus - unidentified				13	27		1	5	
Starfish - unidentified		11	0	2	64			3	0
Starfish, Basket		13	0	1	8			2	0
Starfish, Brittle		6	0					511	0
Starfish, Sunstar	3	25	0	4	3,221	4	5	9	0
<b>Bird</b>									
Albatross, Black-footed									
Fulmar, Northern					2				
Gull - unidentified									
Gull, Glaucus-winged									
Gull, Herring									
<b>Unknown</b>			0		38			2	0
<b>Miscellaneous - unidentified (rocks, mud, garbage, etc)</b>		21			175		5	39	

**Table 6.** Counts of intentional or unintentional discards.

Species	Longline Halibut			Total	Longline Pacific Cod			Total	Longline Sablefish			Total
	Interacted w/ vessel or crew	Drop-off	Utilized Onboard		Interacted w/ vessel or crew	Drop-off	Utilized Onboard		Interacted w/ vessel or crew	Drop-off	Utilized Onboard	
<b>Rockfish and Thornyheads</b>												
Rockfish - unidentified					3			3				
Rockfish, Dark unidentified	1			1								
Rockfish, Dusky (was Light Dusky)	1			1	8			8	1			1
Rockfish, Northern												
Rockfish, Quillback					20	1		21				
Rockfish, Red Banded	1			1	1			1				
Rockfish, Small Red unidentified		1		1	1			1		3		3
Rockfish, Yelloweye	3			3	7			7				
Rockfish, Rougheye	3	1		4					8	1		9
Rockfish, Shortraker	2			2	2			2	24	2		26
Rockfish, Shortraker/Rougheye unidentified	13	2		15	1			1	41	9		50
Rockfish, Shortspine Thornyhead	2			2					240	9		249
Rockfish, Thornyhead unidentified	23	2		25					1,022	70		1,092
<b>Sablefish</b>	82	10		92	176	1		177	677	186		863
<b>Pacific halibut</b>	1,119	10		1,129	4,184	26		4,210	552	3		555
<b>Pacific cod</b>	16			16	465	186		651				
<b>Lingcod</b>	8			8	25	1		26	1	1		2
<b>Flatfish</b>												
Flatfish - unidentified					159	3		162	1			1
Flounder, Arrowtooth	40			40	202	1	2	205	34			34
Flounder, Kamchatka					8			8	2			2
Flounder, Kamchatka/Arrowtooth - unidentified	124			124	500	7		507	89			89
Sole, Dover	1			1					4			4
Sole, Flathead					120	1		121				
Sole, Petrale												
Sole, Rock Sole unidentified					1			1				
<b>Other Fish</b>												
Pollock (Walleye Pollock)					#N/A	14		#N/A				
Grenadier (Rattail), Giant	8	1		9					1,283	58		1,341
Grenadier, (Rattail) - unidentified	10			10	1			1	5,049	167		5,216
Flatnose, Pacific (Codling)												
Greenling - unidentified												
Ratfish, Spotted	21			21	2			2	6			6
Ronquil/Searcher - unidentified					17			17				
Roundfish - unidentified		1		1	70	12		82	28	13		41
Sculpin - Myoxocephalus unidentified					41	2		43				
Sculpin - unidentified	71	1		72	2,634	8		2,642				
Sculpin, Bigmouth	1			1	1	1		2				
Sculpin, Great					100			100				
Sculpin, Irish Lord - unidentified	5			5	78			78				
Sculpin, Red Irish Lord					14			14				
Sculpin, Yellow Irish Lord	50			50	905			905				
Fish head /lips or parts	2			2	7			7	97			97
Fish - unidentified					57	2		59	1	1		2

Species	Longline Halibut				Longline Sablefish				Longline Sablefish			
	Interacted w/ vessel or crew	Drop-off	Utilized Onboard	Total	Interacted w/ vessel or crew	Drop-off	Utilized Onboard	Total	Interacted w/ vessel or crew	Drop-off	Utilized Onboard	Total
<b>Shark</b>												
Shark, Pacific Sleeper (Mud)					5			5				
Shark, Spiny Dogfish	81	1		82	237	4		241	56			56
<b>Skate</b>												
Ray, (Skate) - unidentified					17	5		22				
Skate - Soft Snout unidentified	8			8	287	2		289	40			40
Skate - Stiff Snout unidentified					6			6				
Skate, Alaska					45			45	3			3
Skate, Aleutian	3			3	35			35	3			3
Skate, Bering	2			2	32			32				
Skate, Big	102	2		104	706	10		716	6			6
Skate, Longnose	121	1		122	447	9		456	47	1		48
Skate, Roughtail									106			106
<b>Crab</b>												
Crab - unidentified (Family Unknown)									1			1
Crab, King - unidentified												
Crab, King, Couesi									1			1
Crab, Tanner - Unidentified									13	1		14
<b>Coral</b>												
Bryozoans/Coral Unid					3			3	31	1		32
Coral, Red Tree					1			1	2			2
<b>Invert</b>												
Invertebrate - unidentified	7			7	96	2		98	34			34
Sand Dollars, Sea Urchins	47			47	9			9				
Sea Anemone - unidentified	3			3	84			84	3			3
Sea Whip, Sea Pen - unidentified					697	3		700	218			218
Snail - unidentified	17			17	5	2		7				
Snail, Empty Shell					4			4				
Sponge - unidentified					1			1				
Worm - unidentified (flatworms, ribbon worms)												
Octopus - unidentified					8	19		27	4			4
Starfish - unidentified	11			11	62	2		64	3			3
Starfish, Basket	13			13	8			8	2			2
Starfish, Brittle	6			6					509	2		511
Starfish, Sunstar	25			25	3,028	193		3,221	9			9
<b>Bird</b>												
Albatross, Black-footed												
Fulmar, Northern					2			2				
Gull - unidentified												
Gull, Glaucus-winged												
Gull, Herring												
<b>Unknown</b>					33	5		38	2			2
<b>Miscellaneous - unidentified (rocks, mud, garbage, e</b>	21			21	174	1		175	38	1		39



**Table 7.** Pacific halibut counts for each type of discard, release method, and release condition for the three target fisheries.

Discard Type	Release Method	Release Condition	Longline Halibut	Longline Pacific Cod	Longline Sablefish
Damaged	Hand release	Dead/Sand Fleas/Bleeding	0	0	6
Damaged	Hook straightening	Minor	2	0	0
Damaged	Hook twisting and shaking	Dead/Sand Fleas/Bleeding	19	5	12
Damaged	Hook twisting and shaking	Minor	1	0	0
Damaged	Hook twisting and shaking	Moderate	1	0	0
Damaged	Hook twisting and shaking	Severe	2	0	0
Damaged	Hook twisting and shaking	Unknown	0	1	0
Damaged	Unknown	Dead/Sand Fleas/Bleeding	0	1	2
General	Cut the gangion	Minor	0	4	0
General	Cut the gangion	Moderate	0	1	0
General	Cut the gangion	Unknown	0	13	0
General	Gaff	Dead/Sand Fleas/Bleeding	1	0	0
General	Gaff	Severe	0	1	0
General	Hand release	Minor	10	4	79
General	Hand release	Moderate	0	0	1
General	Hand release	Unknown	9	8	10
General	Hit the roller	Dead/Sand Fleas/Bleeding	2	0	0
General	Hit the roller	Minor	1	1	0
General	Hit the roller	Moderate	1	0	0
General	Hit the roller	Unknown	3	17	2
General	Hook straightening	Minor	20	0	0
General	Hook straightening	Unknown	15	0	0
General	Hook twisting and shaking	Dead/Sand Fleas/Bleeding	7	33	2
General	Hook twisting and shaking	Minor	738	2053	304
General	Hook twisting and shaking	Moderate	3	18	1
General	Hook twisting and shaking	Severe	1	2	0
General	Hook twisting and shaking	Unknown	276	1895	112
General	Other careful release	Minor	0	0	1
General	Other careful release	Unknown	0	2	0
General	Unknown	Minor	2	26	15
General	Unknown	Moderate	0	2	0
General	Unknown	Unknown	5	96	5
General	Unknown	Severe	0	1	0
DropOffAboveWater	No Selection		9	24	3
DropOffBelowWater	No Selection		1	2	0
<b>TOTAL</b>			<b>1129</b>	<b>4210</b>	<b>555</b>

**Table 8.** Pacific halibut counts for each type release method for the three target fisheries.

Release Method	Longline Halibut		Longline Pacific Cod		Longline Sablefish		Total	% of total
Cut the gangion	0	> 1%	18	> 1%	0	> 1%	18	> 1%
Gaff	1	> 1%	1	> 1%	0	> 1%	2	> 1%
Hand release	19	2%	12	> 1%	96	17%	127	2%
Hit the roller	7	1%	18	> 1%	2	> 1%	27	> 1%
Hook straightening	37	3%	0	> 1%	0	> 1%	37	1%
Hook twisting and shaking	1048	93%	4007	95%	431	78%	5486	93%
No Selection	10	1%	26	1%	3	1%	39	1%
Other careful release	0	> 1%	2	> 1%	1	> 1%	3	> 1%
Unknown	7	1%	126	3%	22	4%	155	3%
<b>Grand Total</b>	<b>1129</b>		<b>4210</b>		<b>555</b>		<b>5894</b>	

**Table 9.** Pacific halibut counts for each type release condition for the three target fisheries.

Release Condition	Longline Halibut		Longline Pacific Cod		Longline Sablefish		Total	% of total
Dead/Sand Fleas/Bleeding	29	3%	39	1%	22	4%	90	2%
Minor	774	69%	2080	49%	398	72%	3252	55%
Moderate	5	> 1%	29	1%	3	1%	37	1%
Severe	3	> 1%	4	> 1%	0	> 1%	7	> 1%
Unknown	308	27%	2031	48%	129	23%	2468	42%
No Selection	10	1%	27	1%	3	1%		> 1%
<b>Grand Total</b>	<b>1129</b>		<b>4210</b>		<b>555</b>		<b>5894</b>	

**Figure 1.** Video and sensor completeness in relation to the number of trips the electronic monitoring system had been on a specific vessel. As a vessel made more trips, the likelihood of video and sensor data being complete was higher.

