

12. Appendix A

Offshore Sensitivity Ranking

Area	Element	Relative Sensitivity	Relative Abundance	Temporal Modifier	Assigned Value	Priority Index	Sensitivity Value	Final Ranking
Scenario	Winter							
os_1	Marine Oil Residency Index				3	4.5		
	Special Status Areas				5	7.5		
	Human Use				5	10		
	Alcids	25	5	1	7.50	13.13		
	Deep sea shrimp	7	4	1	1.68	2.94		
	Gulls	17	4	1	4.08	7.14		
	Scallop	18	1	1	1.08	1.89		
	Seaducks	23	4	1	5.52	9.66		
	Tubenoses Offshore	17	3	1	3.06	5.36		
							62	High
os_2	Marine Oil Residency Index				3	4.5		
	Special Status Areas				0	0		
	Human Use				4	8		
	Alcids	25	3	1	4.50	7.88		
	Deep sea shrimp	7	4	1	1.68	2.94		
	Gulls	17	3	1	3.06	5.36		
	Tubenoses Offshore	17	2	1	2.04	3.57		
							32	Low
os_3	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				0	0		
	Alcids	25	1	1	2.50	4.38		
	Deep sea shrimp	7	1	1	0.70	1.23		
	Gulls	17	1	1	1.70	2.98		
	Hooded seal	15	5	1	7.50	13.13		
	Tubenoses Offshore	17	1	1	1.70	2.98		
							32	Low

Area	Element	Relative Sensitivity	Relative Abundance	Temporal Modifier	Assigned Value	Priority Index	Sensitivity Value	Final Ranking
Scenario Winter (continued)								
os_4	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				5	10		
	Alcids	25	5	1	12.50	21.88		
	Deep sea shrimp	7	1	1	0.70	1.23		
	Gulls	17	5	1	8.50	14.88		
	Scallop	18	5	1	9.00	15.75		
	Seaducks	23	5	1	11.50	20.13		
	Tubenoses Offshore	17	2	1	3.40	5.95		
							97	Extreme
os_5	Marine Oil Residency Index				3	4.5		
	Special Status Areas				0	0		
	Human Use				5	10		
	Alcids	25	5	1	7.50	13.13		
	Deep sea shrimp	7	5	1	2.10	3.67		
	Gulls	17	5	1	5.10	8.93		
	Seaducks	23	5	1	6.90	12.07		
	Tubenoses Offshore	17	2	1	2.04	3.57		
								56
os_6	Marine Oil Residency Index				3	4.5		
	Special Status Areas				0	0		
	Human Use				4	8		
	Alcids	25	5	1	7.50	13.13		
	Deep sea shrimp	7	5	1	2.10	3.67		
	Gulls	17	3	1	3.06	5.36		
	Tubenoses Offshore	17	1	1	1.02	1.78		
								36

Area	Element	Relative Sensitivity	Relative Abundance	Temporal Modifier	Assigned Value	Priority Index	Sensitivity Value	Final Ranking
Scenario Winter (continued)								
os_7	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				3	6		
	Alcids	25	4	1	10.00	17.50		
	Baleen whales	9	3	1	2.70	4.72		
	Deep sea shrimp	7	4	1	2.80	4.90		
	Gulls	17	3	1	5.10	8.93		
	Seaducks	23	5	1	11.50	20.13		
	Walrus	18	5	1	9.00	15.75		
	White whale	13	5	1	6.50	11.38		
							97	Extreme
os_8	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				3	6		
	Alcids	25	3	1	7.50	13.13		
	Baleen whales	9	3	1	2.70	4.72		
	Deep sea shrimp	7	3	1	2.10	3.67		
	Walrus	18	5	1	9.00	15.75		
	White whale	13	5	1	6.50	11.38		
							62	High
os_9	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				2	4		
	Alcids	25	1	1	2.50	4.38		
	Deep sea shrimp	7	3	1	2.10	3.67		
	Hooded seal	15	5	1	7.50	13.13		
							33	Low

Area	Element	Relative Sensitivity	Relative Abundance	Temporal Modifier	Assigned Value	Priority Index	Sensitivity Value	Final Ranking
Scenario Winter (continued)								
os_10	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				3	6		
	Alcids	25	4	1	10.00	17.50		
	Baleen whales	9	5	1	4.50	7.88		
	Bearded seal	9	5	1	4.50	7.88		
	Deep sea shrimp	7	4	1	2.80	4.90		
	Gulls	17	4	1	6.80	11.90		
	Seaducks	23	5	1	11.50	20.13		
	Walrus	18	5	1	9.00	15.75		
	White whale	13	5	1	6.50	11.38		
							111	Extreme
os_11	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				2	4		
	Alcids	25	3	1	7.50	13.13		
	Baleen whales	9	5	1	4.50	7.88		
	Bearded seal	9	5	1	4.50	7.88		
	Deep sea shrimp	7	3	1	2.10	3.67		
	Walrus	18	5	1	9.00	15.75		
	White whale	13	5	1	6.50	11.38		
								71
os_12	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				1	2		
	Alcids	25	1	1	2.50	4.38		
	Deep sea shrimp	7	3	1	2.10	3.67		
							18	Low

Area	Element	Relative Sensitivity	Relative Abundance	Temporal Modifier	Assigned Value	Priority Index	Sensitivity Value	Final Ranking
Scenario	Spring							
os_1	Marine Oil Residency Index				3	4.5		
	Special Status Areas				5	7.5		
	Human Use				5	10		
	Alcids	25	3	1	4.50	7.88		
	Baleen whales	9	2	1	1.08	1.89		
	Deep sea shrimp	7	4	1	1.68	2.94		
	Gulls	17	3	1	3.06	5.36		
	Scallop	18	1	1	1.08	1.89		
	Seaducks	23	3	1	4.14	7.24		
	Tubenoses Offshore	17	3	1	3.06	5.36		
							55	High
os_2	Marine Oil Residency Index				3	4.5		
	Special Status Areas				0	0		
	Human Use				4	8		
	Alcids	25	2	1	3.00	5.25		
	Baleen whales	9	2	1	1.08	1.89		
	Deep sea shrimp	7	4	1	1.68	2.94		
	Gulls	17	3	1	3.06	5.36		
	Tubenoses Offshore	17	3	1	3.06	5.36		
							33	Low
os_3	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				0	0		
	Alcids	25	2	1	5.00	8.75		
	Baleen whales	9	1	1	0.90	1.57		
	Deep sea shrimp	7	1	1	0.70	1.23		
	Greenland halibut	7	1	1	0.70	1.23		
	Hooded seal	15	5	1	7.50	13.13		
	Tubenoses Offshore	17	2	1	3.40	5.95		
							39	Moderate

Area	Element	Relative Sensitivity	Relative Abundance	Temporal Modifier	Assigned Value	Priority Index	Sensitivity Value	Final Ranking	
Scenario Spring (continued)									
os_4	Marine Oil Residency Index				5	7.5			
	Special Status Areas				0	0			
	Human Use				5	10			
	Alcids	25	2	1	5.00	8.75			
	Baleen whales	9	2	1	1.80	3.15			
	Cormorants	19	2	1	3.80	6.65			
	Deep sea shrimp	7	1	1	0.70	1.23			
	Gulls	17	3	1	5.10	8.93			
	Scallop	18	5	1	9.00	15.75			
	Seaducks	23	5	1	11.50	20.13			
Tubenoses Offshore	17	2	1	3.40	5.95				
							88	Extreme	
os_5	Marine Oil Residency Index				3	4.5			
	Special Status Areas				0	0			
	Human Use				5	10			
	Alcids	25	4	1	6.00	10.50			
	Baleen whales	9	3	1	1.62	2.84			
	Deep sea shrimp	7	5	1	2.10	3.67			
	Gulls	17	3	1	3.06	5.36			
	Seaducks	23	5	1	6.90	12.07			
	Tubenoses Offshore	17	3	1	3.06	5.36			
								54	High
os_6	Marine Oil Residency Index				3	4.5			
	Special Status Areas				0	0			
	Human Use				4	8			
	Alcids	25	3	1	4.50	7.88			
	Baleen whales	9	3	1	1.62	2.84			
	Deep sea shrimp	7	5	1	2.10	3.67			
	Gulls	17	3	1	3.06	5.36			
	Tubenoses Offshore	17	3	1	3.06	5.36			
								38	Moderate

Area	Element	Relative Sensitivity	Relative Abundance	Temporal Modifier	Assigned Value	Priority Index	Sensitivity Value	Final Ranking
Scenario Spring (continued)								
os_7	Marine Oil Residency Index				3	4.5		
	Special Status Areas				0	0		
	Human Use				3	6		
	Alcids	25	3	1	4.50	7.88		
	Baleen whales	9	3	1	1.62	2.84		
	Deep sea shrimp	7	4	1	1.68	2.94		
	Gulls	17	3	1	3.06	5.36		
	Seaducks	23	4	1	5.52	9.66		
	Tubenoses Offshore	17	3	1	3.06	5.36		
	Walrus	18	5	1	5.40	9.45		
	White whale	13	5	1	3.90	6.83		
						61	High	
os_8	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				3	6		
	Alcids	25	3	1	7.50	13.13		
	Baleen whales	9	3	1	2.70	4.72		
	Deep sea shrimp	7	3	1	2.10	3.67		
	Gulls	17	2	1	3.40	5.95		
	Tubenoses Offshore	17	3	1	5.10	8.93		
	Walrus	18	5	1	9.00	15.75		
	White whale	13	5	1	6.50	11.38		
							77	Extreme
os_9	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				2	4		
	Baleen whales	9	2	1	1.80	3.15		
	Deep sea shrimp	7	3	1	2.10	3.67		
	Hooded seal	15	5	1	7.50	13.13		
	Tubenoses Offshore	17	3	1	5.10	8.93		
						40	Moderate	

Area	Element	Relative Sensitivity	Relative Abundance	Temporal Modifier	Assigned Value	Priority Index	Sensitivity Value	Final Ranking
Scenario Spring (continued)								
os_10	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				3	6		
	Alcids	25	4	1	10.00	17.50		
	Baleen whales	9	5	1	4.50	7.88		
	Bearded seal	9	5	1	4.50	7.88		
	Deep sea shrimp	7	4	1	2.80	4.90		
	Gulls	17	3	1	5.10	8.93		
	Seaducks	23	5	1	11.50	20.13		
	Tubenoses Offshore	17	4	1	6.80	11.90		
	Walrus	18	5	1	9.00	15.75		
	White whale	13	5	1	6.50	11.38		
							120	Extreme
os_11	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				2	4		
	Alcids	25	4	1	10.00	17.50		
	Baleen whales	9	5	1	4.50	7.88		
	Bearded seal	9	5	1	4.50	7.88		
	Deep sea shrimp	7	3	1	2.10	3.67		
	Gulls	17	2	1	3.40	5.95		
	Tubenoses Offshore	17	3	1	5.10	8.93		
	Walrus	18	5	1	9.00	15.75		
	White whale	13	5	1	6.50	11.38		
							90	Extreme
	os_12	Marine Oil Residency Index				5	7.5	
Special Status Areas					0	0		
Human Use					1	2		
Alcids		25	2	1	5.00	8.75		
Baleen whales		9	2	1	1.80	3.15		
Deep sea shrimp		7	3	1	2.10	3.67		
						25	Low	

Area	Element	Relative Sensitivity	Relative Abundance	Temporal Modifier	Assigned Value	Priority Index	Sensitivity Value	Final Ranking
Scenario	Summer							
os_1	Marine Oil Residency Index				3	4.5		
	Special Status Areas				5	7.5		
	Human Use				5	10		
	Alcids	25	3	1	4.50	7.88		
	Baleen whales	9	5	1	2.70	4.72		
	Deep sea shrimp	7	4	1	1.68	2.94		
	Gulls	17	4	1	4.08	7.14		
	Scallop	18	1	1	1.08	1.89		
	Tubenoses Offshore	17	5	1	5.10	8.93		
							55	High
os_2	Marine Oil Residency Index				3	4.5		
	Special Status Areas				0	0		
	Human Use				4	8		
	Alcids	25	3	1	4.50	7.88		
	Baleen whales	9	3	1	1.62	2.84		
	Deep sea shrimp	7	4	1	1.68	2.94		
	Gulls	17	4	1	4.08	7.14		
	Tubenoses Offshore	17	5	1	5.10	8.93		
							42	Moderate
os_3	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				5	10		
	Alcids	25	2	1	5.00	8.75		
	Baleen whales	9	2	1	1.80	3.15		
	Deep sea shrimp	7	1	1	0.70	1.23		
	Greenland halibut	7	3	1	2.10	3.67		
	Gulls	17	2	1	3.40	5.95		
	Tubenoses Offshore	17	2	1	3.40	5.95		
							46	Moderate

Area	Element	Relative Sensitivity	Relative Abundance	Temporal Modifier	Assigned Value	Priority Index	Sensitivity Value	Final Ranking
Scenario Summer (continued)								
os_4	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				5	10		
	Alcids	25	3	1	7.50	13.13		
	Baleen whales	9	5	1	4.50	7.88		
	Cormorants	19	2	1	3.80	6.65		
	Deep sea shrimp	7	1	1	0.70	1.23		
	Gulls	17	4	1	6.80	11.90		
	Scallop	18	2	1	3.60	6.30		
	Seaducks	23	4	1	9.20	16.10		
	Tubenoses Offshore	17	5	1	8.50	14.88		
							96	Extreme
os_5	Marine Oil Residency Index				3	4.5		
	Special Status Areas				0	0		
	Human Use				5	10		
	Alcids	25	5	1	7.50	13.13		
	Baleen whales	9	5	1	2.70	4.72		
	Deep sea shrimp	7	5	1	2.10	3.67		
	Gulls	17	5	1	5.10	8.93		
	Tubenoses Offshore	17	5	1	5.10	8.93		
							54	High
os_6	Marine Oil Residency Index				3	4.5		
	Special Status Areas				0	0		
	Human Use				4	8		
	Alcids	25	2	1	3.00	5.25		
	Baleen whales	9	5	1	2.70	4.72		
	Deep sea shrimp	7	5	1	2.10	3.67		
	Gulls	17	3	1	3.06	5.36		
	Tubenoses Offshore	17	3	1	3.06	5.36		
							37	Moderate

Area	Element	Relative Sensitivity	Relative Abundance	Temporal Modifier	Assigned Value	Priority Index	Sensitivity Value	Final Ranking
Scenario Summer (continued)								
os_7	Marine Oil Residency Index				3	4.5		
	Special Status Areas				0	0		
	Human Use				3	6		
	Alcids	25	4	1	6.00	10.50		
	Baleen whales	9	3	1	1.62	2.84		
	Deep sea shrimp	7	4	1	1.68	2.94		
	Gulls	17	4	1	4.08	7.14		
	Tubenoses Offshore	17	3	1	3.06	5.36		
							39	Moderate
os_8	Marine Oil Residency Index				3	4.5		
	Special Status Areas				0	0		
	Human Use				3	6		
	Alcids	25	2	1	3.00	5.25		
	Baleen whales	9	3	1	1.62	2.84		
	Deep sea shrimp	7	3	1	1.26	2.20		
	Gulls	17	4	1	4.08	7.14		
	Tubenoses Offshore	17	4	1	4.08	7.14		
							35	Moderate
os_9	Marine Oil Residency Index				4	6		
	Special Status Areas				0	0		
	Human Use				2	4		
	Alcids	25	3	1	6.00	10.50		
	Baleen whales	9	2	1	1.44	2.52		
	Deep sea shrimp	7	3	1	1.68	2.94		
	Gulls	17	3	1	4.08	7.14		
	Tubenoses Offshore	17	3	1	4.08	7.14		
							40	Moderate

Area	Element	Relative Sensitivity	Relative Abundance	Temporal Modifier	Assigned Value	Priority Index	Sensitivity Value	Final Ranking
Scenario Summer (continued)								
os_10	Marine Oil Residency Index				3	4.5		
	Special Status Areas				0	0		
	Human Use				3	6		
	Alcids	25	2	1	3.00	5.25		
	Baleen whales	9	3	1	1.62	2.84		
	Deep sea shrimp	7	4	1	1.68	2.94		
	Gulls	17	3	1	3.06	5.36		
	Tubenoses Offshore	17	3	1	3.06	5.36		
							32	Low
os_11	Marine Oil Residency Index				3	4.5		
	Special Status Areas				0	0		
	Human Use				2	4		
	Alcids	25	3	1	4.50	7.88		
	Baleen whales	9	3	1	1.62	2.84		
	Deep sea shrimp	7	3	1	1.26	2.20		
	Gulls	17	2	1	2.04	3.57		
	Tubenoses Offshore	17	3	1	3.06	5.36		
							30	Low
os_12	Marine Oil Residency Index				4	6		
	Special Status Areas				0	0		
	Human Use				1	2		
	Alcids	25	3	1	6.00	10.50		
	Baleen whales	9	3	1	2.16	3.78		
	Deep sea shrimp	7	3	1	1.68	2.94		
	Gulls	17	3	1	4.08	7.14		
	Tubenoses Offshore	17	3	1	4.08	7.14		
							40	Moderate

Area	Element	Relative Sensitivity	Relative Abundance	Temporal Modifier	Assigned Value	Priority Index	Sensitivity Value	Final Ranking
Scenario Autumn								
os_1	Marine Oil Residency Index				3	4.5		
	Special Status Areas				5	7.5		
	Human Use				5	10		
	Alcids	25	5	1	7.50	13.13		
	Baleen whales	9	5	1	2.70	4.72		
	Deep sea shrimp	7	4	1	1.68	2.94		
	Gulls	17	4	1	4.08	7.14		
	Scallop	18	1	1	1.08	1.89		
	Seaducks	23	4	1	5.52	9.66		
	Tubenoses Offshore	17	5	1	5.10	8.93		
							70	Extreme
os_2	Marine Oil Residency Index				3	4.5		
	Special Status Areas				0	0		
	Human Use				4	8		
	Alcids	25	5	1	7.50	13.13		
	Baleen whales	9	3	1	1.62	2.84		
	Deep sea shrimp	7	4	1	1.68	2.94		
	Gulls	17	3	1	3.06	5.36		
	Tubenoses Offshore	17	3	1	3.06	5.36		
							42	Moderate
os_3	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				5	10		
	Alcids	25	2	1	5.00	8.75		
	Baleen whales	9	2	1	1.80	3.15		
	Deep sea shrimp	7	1	1	0.70	1.23		
	Greenland halibut	7	5	1	3.50	6.13		
	Gulls	17	2	1	3.40	5.95		
Tubenoses Offshore	17	3	1	5.10	8.93			
							52	High

Area	Element	Relative Sensitivity	Relative Abundance	Temporal Modifier	Assigned Value	Priority Index	Sensitivity Value	Final Ranking
Scenario Autumn (continued)								
os_4	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				5	10		
	Alcids	25	5	1	12.50	21.88		
	Baleen whales	9	5	1	4.50	7.88		
	Cormorants	19	3	1	5.70	9.97		
	Deep sea shrimp	7	1	1	0.70	1.23		
	Gulls	17	4	1	6.80	11.90		
	Scallop	18	3	1	5.40	9.45		
	Seaducks	23	5	1	11.50	20.13		
	Tubenoses Offshore	17	5	1	8.50	14.88		
						115	Extreme	
os_5	Marine Oil Residency Index				3	4.5		
	Special Status Areas				0	0		
	Human Use				5	10		
	Alcids	25	5	1	7.50	13.13		
	Baleen whales	9	5	1	2.70	4.72		
	Deep sea shrimp	7	5	1	2.10	3.67		
	Gulls	17	3	1	3.06	5.36		
	Seaducks	23	4	1	5.52	9.66		
	Tubenoses Offshore	17	5	1	5.10	8.93		
							60	High
	os_6	Marine Oil Residency Index				3	4.5	
Special Status Areas					0	0		
Human Use					4	8		
Alcids		25	5	1	7.50	13.13		
Baleen whales		9	5	1	2.70	4.72		
Deep sea shrimp		7	5	1	2.10	3.67		
Gulls		17	3	1	3.06	5.36		
Tubenoses Offshore		17	5	1	5.10	8.93		
							48	Moderate

Area	Element	Relative Sensitivity	Relative Abundance	Temporal Modifier	Assigned Value	Priority Index	Sensitivity Value	Final Ranking
Scenario Autumn (continued)								
os_7	Marine Oil Residency Index				3	4.5		
	Special Status Areas				0	0		
	Human Use				3	6		
	Alcids	25	5	1	7.50	13.13		
	Baleen whales	9	3	1	1.62	2.84		
	Deep sea shrimp	7	4	1	1.68	2.94		
	Gulls	17	3	1	3.06	5.36		
	Seaducks	23	5	1	6.90	12.07		
	Tubenoses Offshore	17	3	1	3.06	5.36		
	White whale	13	5	1	3.90	6.83		
							59	High
os_8	Marine Oil Residency Index				4	6		
	Special Status Areas				0	0		
	Human Use				3	6		
	Alcids	25	4	1	8.00	14.00		
	Baleen whales	9	3	1	2.16	3.78		
	Deep sea shrimp	7	3	1	1.68	2.94		
	Gulls	17	3	1	4.08	7.14		
	Tubenoses Offshore	17	3	1	4.08	7.14		
	White whale	13	5	1	5.20	9.10		
								56
os_9	Marine Oil Residency Index				4	6		
	Special Status Areas				0	0		
	Human Use				2	4		
	Alcids	25	2	1	4.00	7.00		
	Baleen whales	9	2	1	1.44	2.52		
	Deep sea shrimp	7	3	1	1.68	2.94		
	Tubenoses Offshore	17	2	1	2.72	4.76		
							27	Low

Area	Element	Relative Sensitivity	Relative Abundance	Temporal Modifier	Assigned Value	Priority Index	Sensitivity Value	Final Ranking
Scenario Autumn (continued)								
os_10	Marine Oil Residency Index				4	6		
	Special Status Areas				0	0		
	Human Use				3	6		
	Alcids	25	4	1	8.00	14.00		
	Baleen whales	9	3	1	2.16	3.78		
	Bearded seal	9	5	1	3.60	6.30		
	Deep sea shrimp	7	4	1	2.24	3.92		
	Gulls	17	3	1	4.08	7.14		
	Seaducks	23	5	1	9.20	16.10		
	Tubenoses Offshore	17	3	1	4.08	7.14		
	White whale	13	5	1	5.20	9.10		
						79	Extreme	
os_11	Marine Oil Residency Index				4	6		
	Special Status Areas				0	0		
	Human Use				2	4		
	Alcids	25	4	1	8.00	14.00		
	Baleen whales	9	3	1	2.16	3.78		
	Bearded seal	9	5	1	3.60	6.30		
	Deep sea shrimp	7	3	1	1.68	2.94		
	Gulls	17	3	1	4.08	7.14		
	Tubenoses Offshore	17	4	1	5.44	9.52		
	White whale	13	5	1	5.20	9.10		
							63	High
os_12	Marine Oil Residency Index				5	7.5		
	Special Status Areas				0	0		
	Human Use				1	2		
	Alcids	25	2	1	5.00	8.75		
	Baleen whales	9	3	1	2.70	4.72		
	Deep sea shrimp	7	3	1	2.10	3.67		
	Gulls	17	2	1	3.40	5.95		
	Tubenoses Offshore	17	2	1	3.40	5.95		
						39	Moderate	