

1 Preamble

2 A Programmatic Environmental Impact Statement (Programmatic EIS) should
3 constitute the central environmental document supporting the Federal Fishery
4 Management Programs in the Alaskan Exclusive Economic Zone. The last time NOAA
5 and the Council performed a programmatic review of federal fisheries management in
6 the Alaska EEZ was completed in 2004 through the Programmatic Supplemental EIS
7 (PSEIS) for the Groundfish fisheries of the Gulf of Alaska and the Bering Sea/Aleutian
8 Islands and their respective Fishery Management Plans (FMPs) for each region.

9 The 2004 PSEIS, focused on the groundfish fisheries, was perhaps the most
10 comprehensive analysis performed by NOAA Fisheries and the Council for the federal
11 fisheries in Alaska. The objectives were intended to be durable, and the Council
12 worked to implement specific policies adopted pursuant the 2004 PSEIS over the next
13 several years, through the groundfish work plan, resulting in a number of important and
14 groundbreaking fishery management policies and programs.

15 While the PSEIS was comprehensive for its time, the escalating and far ranging effects
16 of climate change were not anticipated during the preparation and adoption of the 2004
17 PSEIS. The effects of climate change affect all species and fisheries managed pursuant
18 to federal FMPs and regulations in all geographic regions that make up the Alaska
19 EEZ, and we now understand that the current rate of change is substantially faster than
20 was previously known. In light of this reality, the Council needs a broad analysis that
21 evaluates both the effects of climate change on the ecosystems and fisheries in the
22 Alaska EEZ, and also how those effects impact the processes used by the Council and
23 NOAA to engage the public, including Indigenous communities and tribes. Unlike the
24 2004 PSEIS, this new analysis should encompass a scope beyond just the groundfish
25 fisheries, but should also consider the Council’s management framework across the all
26 of its managed fisheries. Federal fishery management programs for the Alaska EEZ
27 are intertwined and interconnected in a manner not envisioned in 2004, and the
28 analysis needs to consider the interactions between the various components of the
29 management system for numerous fisheries, species and geographical areas.

30 In the early 2000’s, NOAA Fisheries and the Council chose to develop a programmatic
31 analysis in recognition of the “significant changes [that] have occurred in the resource
32 and its environment over the past 20 years.” At that time, the EIS documents
33 supporting the groundfish FMPs were roughly 20 years old with outdated analyses and
34 data. While the NEPA documents that support recent individual Council actions are
35 more robust than pre-2000, the situation is strikingly similar in that the environmental
36 condition is substantially different; the fisheries have evolved as limited access
37 privilege programs and other allocation mechanisms have been implemented; new
38 participants and interests have emerged; and the socio-economic landscape is markedly



39 different than in 2004 including the growing interest and capacity of Alaska Native
40 Tribes and tribal entities who are seeking a meaningful voice in the management
41 process.

42 Need

43 There is an urgent need to evaluate potential changes to fishery management policies
44 and procedures in the Alaska EEZ in light of the rapidly escalating effects of climate
45 change on marine ecosystems in Alaska. This evaluation will include a comprehensive
46 review of the individual and cumulative effects of all federal fishery management
47 programs in the Alaska EEZ. Climate related environmental change has affected a
48 broad range of ecosystem components. In the past decade alone, there have been
49 several dramatic fishery collapses for target species such as Bering Sea crab and Gulf
50 of Alaska cod, and numerous other target species have significant if less dramatic
51 declines. Additionally, non-target species are also experiencing serious population
52 declines. The dramatic declines of Western Alaska chinook and chum salmon stocks,
53 which are not making enough escapement to meet biological requirements stands out.
54 Other effects are less well known or prominent, such as the effects of warming on
55 marine habitats, the slow march by some species northward, and effects on food webs
56 and basic marine productivity.

57 The far reaching effects of climate change affect all species, and all regions, in the
58 Alaska EEZ. They also affect multiple aspects of the fishery management process.
59 Rights based fishery management programs are most successful under relatively static
60 conditions, but changing conditions can have dramatic effects on how these programs
61 perform. Climate related impacts to non-target species can have differential impacts on
62 fishery participants and gear groups. Climate related impacts on subsistence resources
63 can have dramatic impacts to the cultures, economies, and communities of Alaska's
64 Indigenous peoples.

65 While the Council and NOAA Fisheries have conducted NEPA related analyses on
66 individual actions, and other reviews have taken place such as the 2015 SIR review of
67 the PSEIS, EFH 5-year reviews, or program and allocation reviews, there has not been
68 a hard look at the individual and cumulative ecosystem effects and impacts to the
69 human environment of the federal fisheries management programs off Alaska. A
70 programmatic NEPA analysis and EIS provides the best avenue for taking a hard look
71 at the matrix of fisheries, resources, and people affected by climate change, and the
72 policies and procedures needed to address these issues, to inform potential changes to
73 current fishery management policies and procedures.

74



75 Purpose

76 The purpose is to examine and as necessary, revise the current fishery management
77 policies and procedures affecting the human environment in the Exclusive Economic
78 Zone off Alaska across all Council-managed fisheries. Given changing conditions in
79 the fisheries and the environment that have occurred since 2004, is the current
80 management framework including the policies and procedures that guide fishery
81 management, adequate to meet the challenges of climate change? Does our
82 management framework appropriately recognize the rights and needs of Alaskan tribes
83 and subsistence cultures? Are our current allocation schemes and fishery limited
84 access privilege programs (LAPPs) meeting the objectives that were envisioned when
85 they were implemented? Is our science-management interface operating
86 effectively? The analysis will develop and evaluate a reasonable range of alternatives
87 for amending management policies and procedures so that an updated and robust
88 NEPA document, considered in an MSA environment, can support, improve, and guide
89 federal fishery management programs and actions now and into the future.

90 Scope / Framework for alternatives

91 The federal action under consideration is amending the management policies and
92 procedures in all federal fisheries managed under the Magnuson-Stevens Act and the
93 Halibut Act for fisheries in the Gulf of Alaska, the Bering Sea and Aleutian Islands,
94 and Arctic regions.

95 The analysis should focus on four foundational pillars of the federal fishery
96 management regime most affected by climate related impacts:

- 97 1. Ecosystem effects and EBFM. The analysis could look at current policies and
98 practices to determine if they meet the emerging challenges facing the marine
99 ecosystems, fisheries, and management processes in Alaska. Are current policies
100 forward looking, allowing the management regime to anticipate and proactively
101 address ecosystem effects from climate change or other challenges? Do the current
102 policies or practices account for the needs of non-target species or enhance
103 ecosystem resilience? Have appropriate ecosystem indicators been identified, and
104 are there improvements that can be made to the management system to utilize
105 information regarding the status of these indicators to strengthen conservation and
106 management? The analysis should consider and identify additional policies or
107 practices to enhance the evolution of EBFM.
- 108 2. Current allocations and LAPP fishery management programs. The Council has
109 performed evaluations of individual LAPPs and fishery allocations. But there has
110 not been a review of these programs taken together, that looks at the cumulative
111 effects of these programs, and whether they are meeting their original intent. The



112 promotion of LAPPs was a key component of the 2004 groundfish management
113 policy. Are there challenges or unanticipated consequences from such programs to
114 fishery participants, fishing communities, or fishing economies, particularly in the
115 context of rapid environmental change? Have federal fishery management
116 programs resulted in unanticipated and/or unnecessary restrictions or impediments
117 to participation in entry level fisheries, or do fishery management programs provide
118 opportunities for entry level participants to work their way up in the fisheries? Do
119 LAPPs and sector allocations provide opportunities for improved fishery practices
120 such as bycatch avoidance or improved efficiencies? The analysis should explore
121 the performance of existing programs as well as the challenges and opportunities
122 arising from LAPPs and allocations. The analysis should consider and identify
123 potential conservation benefits through improved fishery practices as well as
124 opportunities or challenges to entry level participation in federal fisheries.

125 3. Tribal and Indigenous engagement. The impacts of federal fisheries on the cultures,
126 economies, and subsistence ways of life in rural Alaska communities are a rapidly
127 growing area of concern in the federal fishery management process. Concerns
128 regarding the impacts of federal fisheries on subsistence resources and the
129 Indigenous cultures and communities supported by those resources have
130 dramatically escalated in recent years. This is true for all regions of the Alaska
131 EEZ. The recognition of Tribes in Alaska, coupled with the growing interest and
132 capacity of Tribal entities were not anticipated in 2004, and warrant special
133 attention. The Council has taken several steps and actions to improve and facilitate
134 engagement with Tribes and Indigenous peoples, especially in rural Western
135 Alaska. But current engagement with Indigenous peoples and Tribes has largely
136 been through an ad hoc mix of committees, work groups and task forces. The
137 analysis should review these initiatives to consider and identify policies and
138 procedures that can build on these initial steps to ensure that Indigenous peoples
139 and Tribes have a meaningful role in the fishery management process.

140 4. The Intersection of Science and Management. There is an urgent need to better
141 understand the effects of climate change on the ecosystems and fisheries of the
142 Alaska EEZ. Developing a more robust knowledge base is necessary to fully
143 understand, anticipate, and address the effects of climate change. This knowledge
144 base should include both western science as well traditional Indigenous knowledge.
145 There are several processes at play to inform the scientific process regarding the
146 needs and priorities for federal fishery management in Alaska. The Council's SSC
147 provides a list of research priorities, which are approved by the Council and then
148 forwarded to the Alaska Fishery Science Center and entities like the NPRB. In
149 addition, NOAA develops its own research priorities which may or may not align
150 with the research priorities of the Council and the interested public. The role of
151 Indigenous knowledge remains unclear, but IK certainly offers opportunities to
152 improve the overall understanding of climate change related impacts. Would
153 improved communication, coordination and expanded funding for research and



154 analysis benefit the scientific and management processes? How can IK be better
155 incorporated into the process? What mechanisms might be employed to accomplish
156 these goals? The analysis should look at opportunities for building a stronger and
157 more robust knowledge base to inform fishery management.

158

