

1.1 Slope Rockfish Stock Complex Reorganization Alternatives

This section describes alternative structures for the two existing slope rockfish complexes north and south of 40°10' N. lat. Reorganization of the existing slope rockfish complexes is one way to manage the risk of potential overfishing of individual component stocks within these complexes; the other alternative being implementation of management measures designed to reduce fishing mortality of stocks of concern. These alternatives contemplate a mix of individual management of slope rockfish stocks, as well as new complexes that are either managed coastwide or north and south of 40°10' N lat.

The tables describing the alternatives in this section assume the preferred harvest control rules decided by the Council, which would specify component stock ACLs = ABCs assuming P* is equal to 0.45. The exception to this is blackgill rockfish south of 40°10' N lat., where the ACLs are less than the ABCs due to application of the 40-10 ACL harvest control rule for this stock since it is in the precautionary zone.

1.1.1 No Action for Slope Rockfish Complexes

The No Action alternative maintains the stock complexes as they are currently structured north and south of 40°10' N lat. Table 1 shows the No Action slope rockfish complexes and associated harvest specifications.

Table 1. The No Action slope rockfish complexes north and south of 40°10' N lat. with associated preferred 2015 and 2016 ACLs (stocks with new assessments in bold).

Stock Complexes and Component Stocks	2015 OFL	2015 ABC	2015 ACL	2016 OFL	2016 ABC	2016 ACL
Slope Rockfish Complex North of 40°10' N lat.	1,804	1,669	1,669	1,818	1,683	1,683
<i>Aurora</i>	17.4	16.6	16.6	17.5	16.7	16.7
<i>Bank</i>	17.2	14.4	14.4	17.2	14.4	14.4
<i>Blackgill</i>	4.7	3.9	3.9	4.7	3.9	3.9
<i>Redbanded</i>	45.3	37.7	37.7	45.3	37.7	37.7
<i>Rougheye/Blackspotted</i>	201.9	184.3	184.3	206.8	188.8	188.8
<i>Sharpchin</i>	305.6	279.0	279.0	297.6	271.7	271.7
<i>Shortraker</i>	18.7	15.6	15.6	18.7	15.6	15.6
<i>Splitnose</i>	1,000.6	956.6	956.6	1,018.2	973.4	973.4
<i>Yellowmouth</i>	192.4	160.5	160.5	192.4	160.5	160.5
Slope Rockfish Complex South of 40°10' N lat.	806	698	687	807	699	689
<i>Aurora</i>	74.3	70.7	70.7	74.3	70.7	70.7
<i>Bank</i>	503.2	419.7	419.7	503.2	419.7	419.7
<i>Blackgill</i>	137.0	125.1	113.8	140.0	127.8	117.2
<i>Pacific ocean perch</i>	-	-	-	-	-	-
<i>Redbanded</i>	10.4	8.7	8.7	10.4	8.7	8.7
<i>Rougheye/Blackspotted</i>	4.1	3.8	3.8	4.2	3.9	3.9
<i>Sharpchin</i>	76.4	69.8	69.8	74.4	67.9	67.9
<i>Shortraker</i>	0.1	0.1	0.1	0.1	0.1	0.1
<i>Yellowmouth</i>	0.8	0.7	0.7	0.8	0.7	0.7

1.1.2 Alternative 1 for Slope Rockfish Complexes

Alternative 1 for slope rockfish complexes contemplates individual management of aurora rockfish, Pacific ocean perch, roughey/blackspotted rockfish, shortraker rockfish, and splitnose rockfish with coastwide stock-specific harvest specifications. Two coastwide complexes would be specified: 1) Slope Rockfish Complex comprised of redbanded rockfish, sharpchin rockfish, and yellowmouth rockfish; and 2) Slope Rockfish Complex B comprised of bank and blackgill rockfish. Table 2 depicts this alternative with associated preferred 2015 and 2016 harvest specifications.

Table 2. Alternative 1 slope rockfish complexes with associated preferred 2015 and 2016 harvest specifications (stocks with new assessments in bold).

Stock Complexes and Component Stocks	2015 OFL	2015 ABC	2015 ACL	2016 OFL	2016 ABC	2016 ACL
Individually Managed Stocks						
Aurora	92	87	87	92	87	87
Pacific ocean perch	842	805	158	850	813	164
Roughey/Blackspotted	206	188	188	211	193	193
Shortraker	19	16	16	19	16	16
Splitnose	2,795	2,672	2,672	2,844	2,719	2719
Slope Rockfish Coastwide Complex A	631	556	556	621	547	547
<i>Redbanded</i>	55.7	46.4	46.4	55.7	46.4	46.4
<i>Sharpchin</i>	382.0	348.8	348.8	372.0	339.6	339.6
<i>Yellowmouth</i>	193.3	161.2	161.2	193.3	161.2	161.2
Slope Rockfish Coastwide Complex B	662	563	552	665	566	555
<i>Bank</i>	520.5	434.1	434.1	520.5	434.1	434.1
<i>Blackgill</i>	141.7	129.0	117.8	144.7	131.7	121.1

1.1.3 Alternative 2 for Slope Rockfish Complexes

Alternative 2 for slope rockfish complexes contemplates individual management of bank rockfish, Pacific ocean perch, and splitnose rockfish with coastwide stock-specific harvest specifications. The remaining stocks managed in the status quo slope rockfish complexes north and south of 40°10' N lat. would continue to be managed together. Table 3 depicts this alternative with associated preferred 2015 and 2016 harvest specifications.

Table 3. Alternative 2 slope rockfish complexes with associated preferred 2015 and 2016 harvest specifications (stocks with new assessments in bold).

Stock Complexes and Component Stocks	2015 OFL	2015 ABC	2015 ACL	2016 OFL	2016 ABC	2016 ACL
Individually Managed Stocks						
Bank	520	434	434	520	434	434
Pacific ocean perch	842	805	158	850	813	164
Splitnose	2,795	2,672	2,672	2,844	2,719	2,719
Slope Rockfish Complex North of 40°10' N lat.	786	698	698	783	695	695
<i>Aurora</i>	17.4	16.6	16.6	17.5	16.7	16.7
<i>Blackgill</i>	4.7	3.9	3.9	4.7	3.9	3.9
<i>Redbanded</i>	45.3	37.7	37.7	45.3	37.7	37.7
<i>Rougheye/Blackspotted</i>	201.9	184.3	184.3	206.8	188.8	188.8
<i>Sharpchin</i>	305.6	279.0	279.0	297.6	271.7	271.7
<i>Shortraker</i>	18.7	15.6	15.6	18.7	15.6	15.6
<i>Yellowmouth</i>	192.4	160.5	160.5	192.4	160.5	160.5
Slope Rockfish Complex South of 40°10' N lat.	303	279	268	304	280	269
<i>Aurora</i>	74.3	70.7	70.7	74.3	70.7	70.7
<i>Blackgill</i>	137.0	125.1	113.8	140.0	127.8	117.2
<i>Redbanded</i>	10.4	8.7	8.7	10.4	8.7	8.7
<i>Rougheye/Blackspotted</i>	4.1	3.8	3.8	4.2	3.9	3.9
<i>Sharpchin</i>	76.4	69.8	69.8	74.4	67.9	67.9
<i>Shortraker</i>	0.1	0.1	0.1	0.1	0.1	0.1
<i>Yellowmouth</i>	0.8	0.7	0.7	0.8	0.7	0.7

1.1.4 Alternative 3 for Slope Rockfish Complexes

Alternative 3 for slope rockfish complexes contemplates individual management of blackgill rockfish, rougheye/blackspotted rockfish, and shortraker rockfish with coastwide stock-specific harvest specifications with an option to manage these three stocks in their own coastwide complex. The remaining stocks managed in the status quo slope rockfish complexes north and south of 40°10' N lat. would continue to be managed together. Table 4 depicts this alternative with associated preferred 2015 and 2016 harvest specifications.

Table 4. Alternative 3 slope rockfish complexes with associated preferred 2015 and 2016 harvest specifications (stocks with new assessments in bold).

Stock Complexes and Component Stocks	2015 OFL	2015 ABC	2015 ACL	2016 OFL	2016 ABC	2016 ACL
Individually Managed Stocks a/						
Blackgill	142	129	118	145	132	121
Rougheye/Blackspotted	206	188	188	211	193	193
Shortraker	19	16	16	19	16	16
Slope Rockfish Complex North of 40°10' N lat.	1,579	1,465	1,465	1,588	1,474	1,474
<i>Aurora</i>	17.4	16.6	16.6	17.5	16.7	16.7
<i>Bank</i>	17.2	14.4	14.4	17.2	14.4	14.4
<i>Redbanded</i>	45.3	37.7	37.7	45.3	37.7	37.7
<i>Sharpchin</i>	305.6	279.0	279.0	297.6	271.7	271.7
<i>Splitnose</i>	1,000.6	956.6	956.6	1,018.2	973.4	973.4
<i>Yellowmouth</i>	192.4	160.5	160.5	192.4	160.5	160.5
Slope Rockfish Complex South of 40°10' N lat.	665	653	653	663	651	651
<i>Aurora</i>	74.3	70.7	70.7	74.3	70.7	70.7
<i>Bank</i>	503.2	503.2	503.2	503.2	503.2	503.2
<i>Pacific ocean perch</i>	-	-	-	-	-	-
<i>Redbanded</i>	10.4	8.7	8.7	10.4	8.7	8.7
<i>Sharpchin</i>	76.4	69.8	69.8	74.4	67.9	67.9
<i>Yellowmouth</i>	0.8	0.7	0.7	0.8	0.7	0.7

a/ Option to manage these three species in their own coastwide complex.